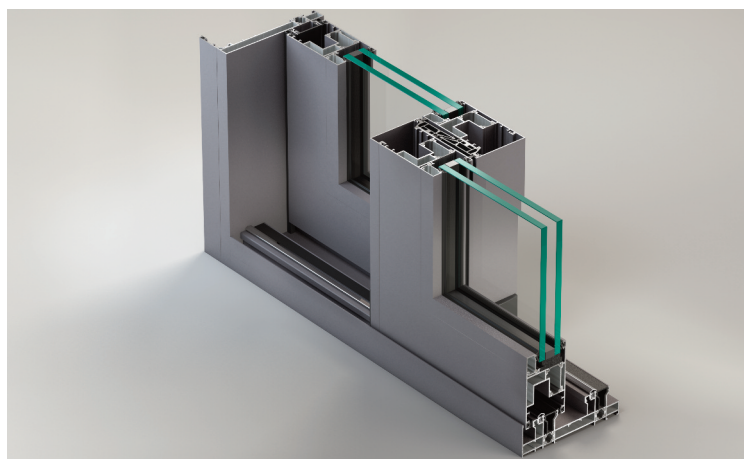


Sliding systems
NC-S 150 STH HES SD
Product catalogue



Technical and commercial information

Aluminum and ecology - Aluminum properties - Cleaning - Maintenance - Practical advices
General conditions of sale - General notes - Technical description of the system Technical specification
- Surface finishing - Quality guarantee Certificate - Performance tests - Statical employment limits-
Configuration types

Accessories and gaskets

Accessories group
Gaskets group

Profiles

Groups A-B
- Description and technical data of the single profiles

Order lists

Group C
- Order lists and respective tables for the use of accessories and gaskets for the main typologies

Section

Group D
- Main sections in 1:1 scale with the respective accessories and space requirements

Equipment

Group MU
- Technical schedules for the use of the equipment

CATALOGUE RELEASE

CURRENT RELEASE

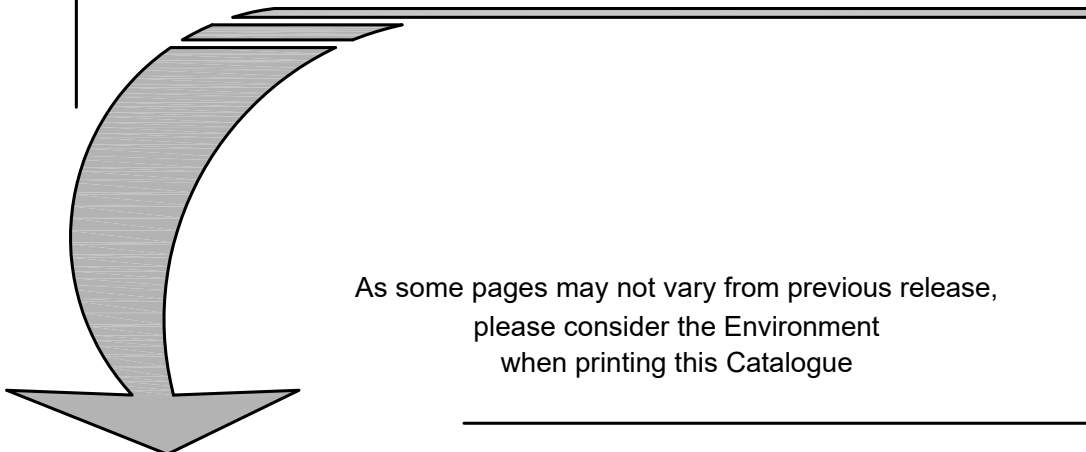
2018

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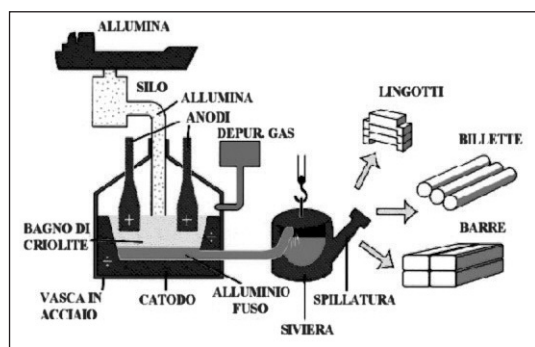
SINGLE PAGE UPDATE:

Each page has a "Release" date
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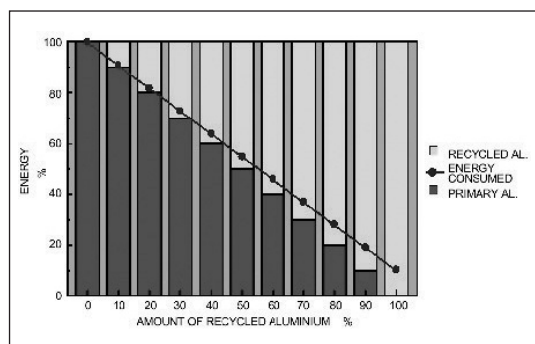
As some pages may not vary from previous release,
please consider the Environment
when printing this Catalogue

Aluminum and ecology



Production of primary aluminum

In nature the aluminum does not lie loose, but as a compound which makes up 8% of Earth crust. The aluminum is the 3rd most widespread element in the World after oxygen and silicon. The bauxite is mined from the Earth crust; from the bauxite, by electrolysis, the aluminum oxide (alumina) is obtained: it is the raw material necessary for the production of primary aluminum. From 4 kg [8,81 lbs] bauxite we obtain 2 kg [4,40 lbs] alumina, from which we obtain 1 kg [2,20 lbs] aluminum.



Energy saving in recycling

The quality of aluminum does not change when recycling. The production scraps of the primary aluminum are directly recycled and re-utilised. The re-melting aluminum requires only 5% of the energy employed for the production of the metal from the bauxite.



Environment

In the aluminum industry, the production of gases contributing to the greenhouse effect is due to the utilisation of fossil fuels and to the electrolysis process. The emitted quantities of the above gases are very low and their influence on the total gases produced by the man are around 1% only. However, the ever growing utilisation of aluminum in fields like the sector of transports, enables to reduce the weight of the vehicles, setting a limit to the emission of gases into the atmosphere; the utilisation of thermal break aluminum windows and doors enables a remarkable energy saving.



Recycling

The re-melting of aluminum requires a modest quantity of energy. In the recycling process it is necessary to employ only 5% of the energy required at the origin to produce the primary metal with material losses lower than 3%.

Aluminum properties



Lightness

The aluminum is an extremely light metal: its specific weight is 167.1 lbs/ft³, that means only one third of the specific weight of the steel.



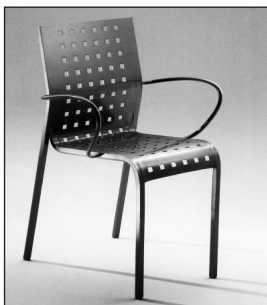
Resistance

The resistance of aluminum can be optimised with the addition of low quantities of other metals. Some particular alloys can make the resistance of aluminum similar to the steel.



Resistance to corrosion

The spontaneous oxide coating protects the aluminum making it particularly resistant to corrosion. This feature can be improved by means of specific surface treatments.



Machinability

The aluminum can be used in the most various applications, thanks to the possibility to employ alloys which raise and complete its mechanical features.



Inflammability and fire resistance

Thanks to its refractoriness features, the aluminum can be employed in the buildings and in the transport sector as well.

Cleaning of aluminum windows

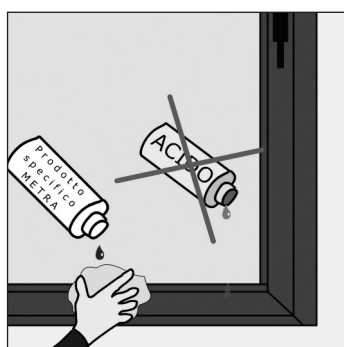


With the respect of cleaning and maintenance rules here given, the aluminum windows will keep their own performances of air-water tightness and beauty of the surfaces. In order to keep these qualities, the exposed profiles and surfaces must be subject to regular cleaning and maintenance.

The frequency of intervention depends on the building surrounding and must be higher when located near the coast or in industrial and highly polluted areas. The cleaning of aluminum profiles is very simple: it's enough to pass them carefully with a soft sponge moistened with the proper detergent. The detergent must not be abrasive, not with a basis of ammonia, not with a basis of chlorine (ex: bleach) or alkaline or acid products. The maintenance of the vents is often combined with the glass cleaning; we deeply recommend to clean the surfaces when they are not exposed to heat sources nor to the sunrays.

IMPORTANT NOTES

The aluminum anodised and painted can not be in contact with damp mortar or chalk. Then, during the masonry work, we always recommend to protect the vents and frames in order to avoid any possible damaging

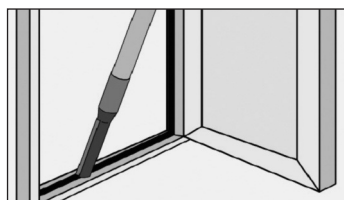


DO NOT USE

- Aggressive alkaline chemical products (ex. ammonia).
- Strong acids.
- Hypochlorites (ex. bleach).
- Oxiding products.
- Nitro-acetone solvents.

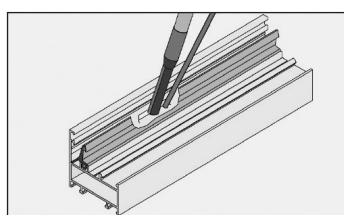
WHAT TO USE

Water at max 30°C temperature and specific detergent for the cleaning of the aluminum parts of doors and windows anodised or painted.



Cleaning inside the window

In order to guarantee a correct working, your window should be inspected at least once a year to check that no residue or extraneous body are in the grooves and in the slides of the frame itself. This operation prevents the eventual obstruction of the drainage holes, enabling the window to keep its performances.



Cleaning of the drainage holes

Clear away the dust and dirt with a vacuum cleaner and, should the drainage holes be obstructed, remove the occlusion with the help of a tool similar to a rod.

METRA suggested products:

1- MU0455 - Cleaning and maintenance kit for painted windows

- Including:
- Product for the regular cleaning of the painted aluminum
 - Specific product for the EPDM gaskets
 - Lubricating product for the hardware

2- MU0456 - Cleaning and maintenance kit for anodized windows

- Including:
- Product for the regular cleaning of the anodized aluminum
 - Specific product for the EPDM gaskets
 - Lubricating product for the hardware

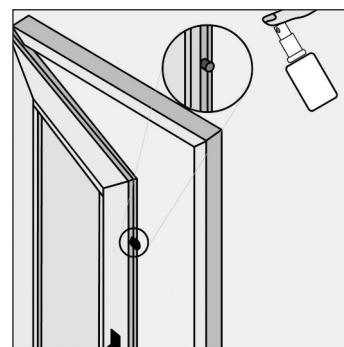
Maintenance of the windows

Apart from cleaning the profiles, it is necessary to provide for the maintenance of the weather gaskets and accessories and repair, if necessary, the damaged parts.

N.B. Any eventual replacement of worn or damaged parts or adjustment must be done exclusively by qualified staff.

1- Lubricating product for hardware

The opening parts and all lock points must be lubricated with oil or anti-acid grease. The spray leaves a protective film over the treated parts, improving the movement and attenuating any possible troublesome noise.

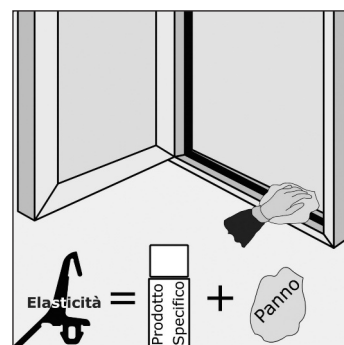


2- Product for gaskets

Cleaning the gaskets by a cloth damped with the indicated product at least twice a year, will enable the gaskets to keep their correct elasticity.

In case of damages due to negligence or insufficient maintenance, any possibility to appeal to the guarantee is excluded.

The utilisation of a non recommended product releases METRA from the responsibility of any damage caused to the windows.



Ventilation of the rooms

Your new METRA windows ensure high performances of air and water tightness required by the specific Standards for the **energy saving**. The lack of air exchange between indoor and outdoor can cause the increase of the relative humidity ratio of which, vice-versa, in order to limit the condensation, must be kept at a normal level, operating as per figures **A** and **B**.

Other possible sources of humidity in the houses could be:

Water boiling, food cooking, washing, shower, indoor plants, number of persons in the rooms, etc.

The humid air settles on the windows and non-porous materials (ex. glass) in form of condensation and on the walls in form of eventual moulds and stagnation stains.

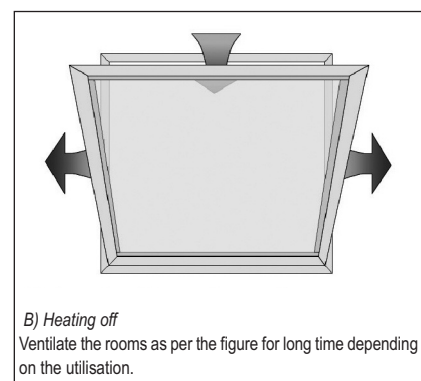
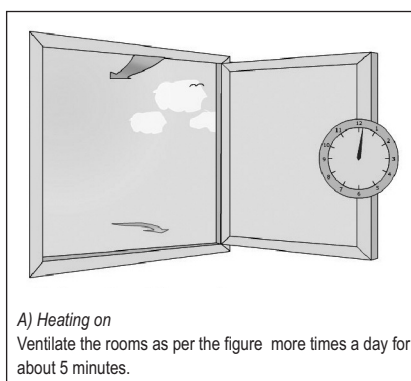
The condensation starts to form when the temperature of the walls in the room is lower than the temperature called "temperature of dew".

The temperature of dew is determined by the two following factors:

- Relative humidity ratio inside the rooms
- Temperature inside the rooms

The ventilation of the rooms brings the air humidity to regular values. By a short and repeated aeration, there is a low waste of energy and an efficient exchange of air is guaranteed.

The inhabiting wellbeing, as shown in the figure, is reached in function of the room temperature and of the relative humidity.



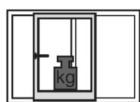
EXTERIOR TEMPERATURE	RECOMMENDED MAXIMUM INTERIOR RELATIVE HUMIDITY AT AN INTERIOR TEMPERATURE OF 21°C (70°F)
-29°C (-20°F)	20 %
-24°C (-10°F)	25%
-18°C (0°F)	30%
-12°C (10°F)	35%
-7°C (20°F)	40%

Source: Canadian Mortgage and Housing Corporation (CMHC)

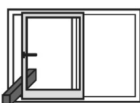
Practical advice

- Avoid the direct contact of the hardware with humidity.
- Use for cleaning the kits MU0455 / MU4556 or neutral detergents only.
- The gaskets must not be in contact with paints or aggressive agents
- The hardware must not be re-painted.
- These indications are valid for all typologies of the series

Warning



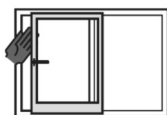
Do not overload the vent



Do not block the sliding track

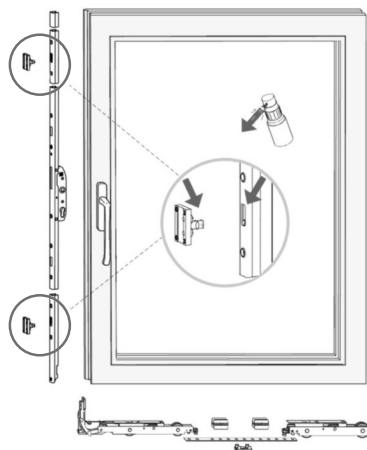


Fall risk



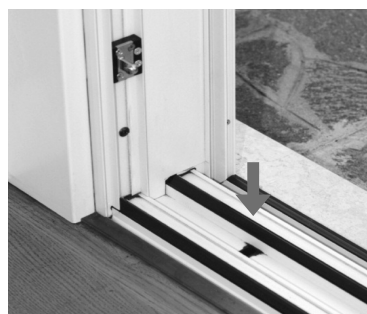
Crush risk

Maintenance



Apply some grease on opening parts and opening devices using a spray lubricant at least once a year.

Water drainage



In order to ensure a correct water drainage, it is necessary to clean periodically the lower track without obstructing the outflow slots.



Adjustment of the hardware

The adjustment must be done by qualified staff only.

Opening and closing



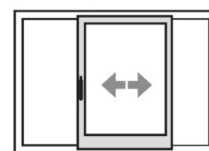
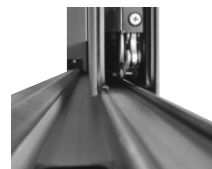
- 1 -Turn the handle downwards until it reaches the opening position
- 2 -Make the sash slide



Closed

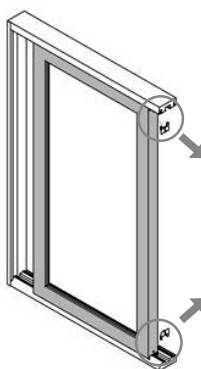


Open

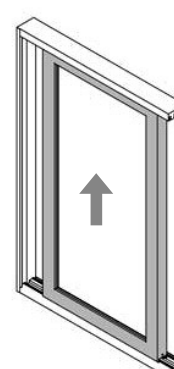


Removal of the vent

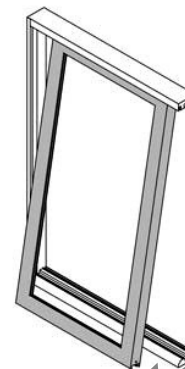
The removal of the vent must be done by qualified staff only.



- 1 Extract the finishing caps



- 2 Lift the sash from the lower track



- 3 Turn and then remove the sash

LETTER OF GUARANTEE

Art. 1 Guarantee – 1.1 – Conformity of products – METRA guarantees the conformity of its products within the terms of this article: the term “conformity” is understood to mean that the quality and type of the product correspond to that which is stipulated in the contract and that the product is free from defects in material or workmanship. The buyer accepts METRA's tolerances regarding quantities of products.

1.2 – Extension of the guarantee – The guarantee that covers defects is limited to those defects that are due to material or construction defects that are imputable to METRA.

1.3 – METRA will not accept liability for defects deriving from damage caused to the products by transportation or handling or defects caused after risks have been transferred to the buyer.

1.4 – For details on construction or other industrial systems, consult “The Notes issued by Metra, Performance Test Reports and Safety Prescriptions” and any other information found in the METRA catalogues and technical documentation that the buyer declares that he is aware and accepts through placing the order and that must be considered an integral part of these general conditions.

1.5 – If METRA has made technical modifications to the products, the modified products shall be covered by this guarantee.

1.6 METRA shall not be liable for defects in the products that are due to: (1) normal wear of those parts that, by their nature, are subject to rapid and continuous wear (2) natural weathering of surfaces and/or hardware finishes (e.g. corrosion) (3) damage to surfaces caused by chemicals (e.g. brick wash) (4) harsh environment (e.g. salt spray or airborne pollutants) (5) glass breakage (6) failure to provide maintenance, if and when needed (7) improper installation, use or abuse of the product (8) any cause beyond the control of METRA (e.g. fire, flood, earthquake, other acts of nature) (9) slight imperfection or wavy distortions in the glass that do not impair the structural integrity (10) condensation or damage as a result of condensation (11) labour and materials for repainting or refinishing activities, or the removal or disposal of defective product(s).

1.7 – Complaints – The buyer is required to check the conformity of the product within eight (8) days of receipt and in any case before additional work of any kind is undertaken on the product and promptly report any defects. The buyer shall report any visible defects in the product within fifteen (15) days after such defect either (i) appears or (ii) should have been discovered after the exercise of reasonable diligence and in any case not more than four (4) months after the date of delivery. Complaints shall be made via registered letter addressed to METRA and must give a detailed description of the defects or types of non-conformity that are the subject of the complaint. The buyer's right of guarantee shall be voided if he does not permit any reasonable inspection to be undertaken that METRA requires or if METRA requests the return of defective products, at METRA's own expense, and the buyer does not return the product within eight (8) days of receiving the request.

1.8 – Redress – Upon receipt of a product which the buyer claims has a defect in compliance with article 1.7, METRA may at its sole discretion: a) within a reasonable

period provide ex-works a product of the same type and in the same quantity as that/those recognised as being defective or non-conformant; b) credit the buyer a sum of money equal to the value to the product(s) recognised as being defective or non-conformant. In these cases, METRA shall have the right to retain the defective product(s) which shall become its property. In addition, if it is determined that the product does not have a defect covered by the warranty, METRA may charge an inspection fee for any inspection done as well as the transport fees, if any.

1.9 – Limitation of METRA's responsibility – Any compensation paid to the buyer shall not exceed the invoiced price of the product(s). The guarantee described in this article supersedes all legal guarantees for defects and conformities and exempts METRA from any other responsibility for the supplied product(s); in particular, the buyer shall not be able to make further requests for compensation, price reductions or cancellation of the contract.

1.10 Disclaimers, Limitations, and Additional Terms and Conditions – Disclaimers – This Limited Warranty is the only warranty, written or oral, expressed or implied, provided by METRA. No dealer, employee, or agent of METRA, nor any third party, may create or assume any other liability, obligation, or responsibility on behalf of METRA. ALL IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. Any implied warranty which cannot be disclaimed under applicable law will be limited in duration to the shortest permissible term and, in any event, will not exceed the term of the applicable express limited warranty; the requirements for presenting any claim so affected will be as provided in this Limited Warranty. Any product or component not specifically subject to this Limited Warranty or another written METRA product warranty is provided AS IS and without warranty. This Limited Warranty gives you specific legal rights and you may also have other rights, which may vary from country to country or state to state. THIS WARRANTY IS NOT A WARRANTY OF FUTURE PERFORMANCE OR A STATEMENT OF THE USEFUL LIFE OF ANY METRA PRODUCT, BUT ONLY A WARRANTY TO REPAIR, REPLACE, OR REFUND.

Limitations – IN NO EVENT WILL METRA BE LIABLE FOR CONSEQUENTIAL, SPECIAL, INDIRECT, OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING BUT NOT LIMITED TO LOSS OF USE, LOSS OF PROFITS OR GOODWILL, DAMAGES FOR NEGLIGENCE IN THE MANUFACTURE, DESIGN OR INSTALLATION OF THE PRODUCT, OR OTHER LOSS OR INJURY. The limitations of warranty and liability set forth herein shall survive and apply, even if the exclusive remedy set forth in this Limited Warranty is found to have failed of its essential purpose.

N.B.

All the conditions reported in the above document are acknowledged accepted through placing the order.

Technical description of the system

Extruded aluminum profiles:	EN AW 6060 (EN 573-3 e EN 755-2)
Temper designation:	T5 (EN 515)
Dimensional tolerances and thickness:	EN 12020-2
Air-water-tightness:	By means of EPDM gaskets.
Type of profiles:	Thermal break profile, obtained by insertion of polyamide bars reinforced with fibreglass Mechanical fixing by rolling. In order to prevent from any sliding between the internal and external profile, the seats of the polyamide bars are previously knurled.
Glass application:	Glass stops with bayonett fitting
Glass seat height:	22 mm [$\frac{7}{8}$ "]
Glass thickness:	Variable, from 13 mm [$\frac{1}{2}$ "] to 46 mm [$1\frac{13}{16}$ "]
Basic dimensions of the system:	- Frame depth 150 mm [$5\frac{7}{8}$"] - Sash depth 60 mm [$2\frac{3}{8}$"]
Use:	The system with its aluminum profiles and original accessories and gaskets enables the fabrication of windows and doors with two, three or four sliding sashes on two or three tracks and windows and doors with one sliding sash in the wall. The system allows the integration with the casement system NC 65 STH - HES to carry out windows and doors with fanlights, sublights, fixed side lights or casements.
Main features:	- Frame profiles with cut at 90° assembled by means of self-tapping screws. - Frame profiles with cut at 45° assembled by means of plugging corner keys. - Frame profiles with cut at 45° assembled by means of plugging and alignment corner keys. - Lift-and slide movement. - Multi-point locking systems with handles with or without cylinders with keys. - Lower track with sliding guides made of wear-proof material or aluminum. - Special caps allow the drainage of water through specific slots. Two possible configurations STANDARD or PLUS, reaching different values of thermal transmittance only by the replacement and/or the addition of gaskets.

Technical specification

System description

Windows and doors must be made applying the METRA NC-S150STH system. The profiles are made of UNI EN AW 6060 aluminium alloy (EN 573-3 and EN 755-2) with T5 temper designation according to UNI EN 515, extruded in accordance with the tolerances specified in UNI EN 12020-2. The system should include thermal-break profiles, made with PA 6.6 insulating strips of glass-fibre-reinforced polycarbonate (25%). The insulating strips must endure oxidation and stove-enamelled treatments under temperatures up to 180° - 200 °C for 15 minutes and these treatments should not alter the quality of the joints. The profiles for fixed frames will have strips not less than 24 mm high. The profiles for movable frames will have strips not less than 16 mm [$\frac{5}{8}$ "] high. Three-chamber profiles will be used in the movable frame so as to allow using 2 corner keys at corner joints. Movable frames can house panes up to 46 mm [$1\frac{13}{16}$ "] thick

Accessories

Corner joints will be built with die-cast aluminium corner keys to be fitted to the internal and external tubular structures of thermal-break profiles. Corner keys will be fastened by means of pins or caulking. Corner keys will be used with the appropriate METRA two-component adhesive properly distributed on seal areas.

The system will have central seal caps to be placed on the lower and upper rails matching the sash intersection. Also at this point, the sashes will have finish-cover caps suitable to ensure sealing between the guide and central stop profile. The lower rail guides must be made of reinforced polycarbonate to avoid the deterioration caused by sliding the carriages or by walking on them. The guides must also limit noise caused by sliding and at the same time, must facilitate carriage sliding. These guides, if necessary, can be replaced easily at any time. Only METRA original accessories should be used.

Drainage and ventilation

The lower rail must have areas for water drainage. The distribution and dimensions of slots and holes must comply with all METRA machining specifications. All the accessories specific for a drainage system must be used: drainage valves, which, in certain areas of the rail, prevent water backflow due to external pressure; water drainage caps, which are placed outside to cover the drainage slots on the rail; water discharge bushings, which collect and carry water without leaking inside the profile so that water is drained in a controlled manner to the outside. The sashes must have holes for the perimeter ventilation of glass sheets and the drainage of any water that may have seeped. The polycarbonate insulating strips should be so shaped as to avoid stagnation of any water that may have seeped or condensed and also perfectly aligned with the cross walls of the aluminium profiles. All the drainage slots will be protected externally by means of special caps. In fixed window panes, such caps have an internal backflow membrane

Gaskets

All gaskets must be made of EPDM rubber. The choice and use of "tournant" glass-holding brackets must be in compliance with METRA specifications.

Pane and/or panel installation

Under wind pressure, glazing beads must guarantee total pressure on the glass sheet / panel without yielding. The glazing bead must compensate all the dimensional tolerances, also caused by added thicknesses such as painting, to ensure proper coupling. Glazing beads are 22 mm [$\frac{7}{8}$ "] high to ensure an adequate bond of the glass sheet and/or panel and to provide adequate coverage of sealants used for insulating glass, protecting them from the sun and preventing their early deterioration. Use the glass supports suggested by the system and dowels of suitable size and hardness according to their function (bearing or spacing). Glass support and dowels must ensure supporting surface on double glazing sheets. Glass sheets must be sealed with suitable pre-formed gaskets made of elastomeric ethylene-propylene (EPDM) rubber, suitably joined at the corners. The glass-holding bracket will be placed at the same level with the external edge of the frame so as to reduce the visible section of the gasket and reducing the rim effect (tournant gasket).

Safety criteria: when selecting the glazing, it is necessary to comply with the requirements of UNI 7697.

Thermal transmittance for the system

Uf (W/m²K): xx ÷ xx depending on the junction in question

Sealing performance

Water tightness (EN 1027 – EN 12208) : Class

Air permeability (EN 1026 – EN 12207) : Class

Resistance to wind load (EN 12211 – EN 12210) : Class

Static checks and dimensions

Windows and doors should be statically checked and dimensioned considering the forces and strains that the product will undergo. Profiles must be dimensioned so as not to undergo any deformation that exceeds 1/200 compared to the distance between links and in any case, not over 15 mm [$\frac{3}{8}$ "]. Glazing must be properly sized according to the relevant regulations and shall have no deformations exceeding 12 mm [$\frac{1}{2}$ "].

Utilisation limits

When determining the maximum sizes of a window/door, the designer or manufacturer must consider and assess not only the sizes and the moment of inertia of the profiles but also the technical data of accessories, application features and weather conditions, such as height above the ground, exposure to rain and wind speed in the area.

Product compliance

The surface finishing done by METRA COLOR will comply with the provisions of the directives of QUALICOAT, QUALIMARIN, QUALIDECORAL and QUALANOD brands.

Installation

In order to keep the sealing, thermal insulation and sound proofing performance also while installing a window/door, this should be done following UNI 10818 and the regulations from "Laying manual for external windows and doors" published by METRA, following the POSACLIMA method.

Global Certification Network Certificate



ISO 9001:2000

Global Certification Network Association
herewith certifies that



Metra Aluminium Inc.

Laval, Québec, Canada



has implemented and is maintaining a
management system according to the
above mentioned standard.



Certificate
Registration No. **2178**

Issue Date: **January 16, 2007**


Authorized Director

This certification is valid only in conjunction with a current ISO 9000 series registration within the Global Certification Network. This certificate remains the sole property of the issuing Registrar, and must be returned upon request.

**PERFORMANCE TESTING IN ACCORDANCE WITH
AAMA/WDMA/CSA 101/I.S.2/A440-11 (NAFS 2011) & A440S1-17**

PRODUCT MANUFACTURER

METRA S.p.A
Via Stacca 1
25050 Rodegno Saiano
Brescia, Italy

REPORT AI-04827-A2**TEST REPORT SUMMARY**

Product type	Sliding Door (Lift & slide XX configuration)
Product series/model	NC-S 150 STH HES SD
Primary product designator	Class CW ±PG30 : Size tested 3200 x 2500 mm (~ 126 x 98 in) - Type SD
Optional secondary designator	Positive Design pressure (DP) = 1440 Pa (~30.08 psf)⁽¹⁾ Negative design pressure (DP) = -1440 Pa (~-30.08 psf)⁽¹⁾ Water penetration resistance test pressure = 720 Pa (~15.04 psf)⁽²⁾ Canadian air infiltration / exfiltration level = A3 Level
Option(s)	(1) MGU lift and slide (300 kg) and locking hardware kit -or- MHA lift and slide (300 kg) and locking hardware kit (2) Standard 7-hole exterior track drainage
Primary product designator	Class CW ±PG30 : Size tested 3200 x 2500 mm (~ 126 x 98 in) - Type SD
Optional secondary designator	Positive Design pressure (DP) = 1440 Pa (~30.08 psf)⁽¹⁾ Negative design pressure (DP) = -1440 Pa (~-30.08 psf)⁽¹⁾ Water penetration resistance test pressure = 510 Pa (~10.65 psf)⁽²⁾ Canadian air infiltration / exfiltration level = A3 Level
Option(s)	(1) MGU lift and slide (300 kg) and locking hardware kit -or- MHA lift and slide (300 kg) and locking hardware kit (2) Optional single notch exterior track end drainage

See CLEB laboratory Inc. complete report AI-04827-A2 for test specimen description and detailed test results

Test completion date	2018-02-19	Number of pages	6 pages & 1 appendix
Report date	2018-03-15	Revision date	-

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**PERFORMANCE TESTING IN ACCORDANCE WITH
AAMA/WDMA/CSA 101/I.S.2/A440-11 (NAFS 2011) & A440S1-17**

PRODUCT MANUFACTURER

METRA S.p.A
Via Stacca 1
25050 Rodegno Saiano
Brescia, Italy

REPORT AI-04827-A1

TEST REPORT SUMMARY

Product type	Sliding Door (Lift & slide XX configuration)
Product series/model	NC-S 150 STH HES SD
Primary product designator	Class AW - PG40 : Size tested 3200 x 2500 mm (~ 126 x 98 in) - Type SD
Optional secondary designator	Positive Design pressure (DP) = 1920 Pa (~40.10 psf)⁽¹⁾ Negative design pressure (DP) = -1920 Pa (~-40.10 psf)⁽¹⁾ Water penetration resistance test pressure = 720 Pa (~15.04 psf)⁽²⁾ Canadian air infiltration / exfiltration level = A3 Level
Option(s)	(1) MGU lift and slide (300 kg) and locking hardware kit -or- MHA lift and slide (300 kg) and locking hardware kit (2) Standard 7-hole exterior track drainage
Primary product designator	Class AW - PG40 : Size tested 3200 x 2500 mm (~ 126 x 98 in) - Type SD
Optional secondary designator	Positive Design pressure (DP) = 1920 Pa (~40.10 psf)⁽¹⁾ Negative design pressure (DP) = -1920 Pa (~-40.10 psf)⁽¹⁾ Water penetration resistance test pressure = 530 Pa (~11.07 psf)⁽²⁾ Canadian air infiltration / exfiltration level = A3 Level
Option(s)	(1) MGU lift and slide (300 kg) and locking hardware kit -or- MHA lift and slide (300 kg) and locking hardware kit (2) Optional single notch exterior track end drainage

See CLEB laboratory Inc. complete report AI-04827-A1 for test specimen description and detailed test results

Test completion date	2018-02-19	Number of pages	7 pages & 1 appendix
Report date	2018-03-15	Revision date	-

Prepared by:



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TRURO

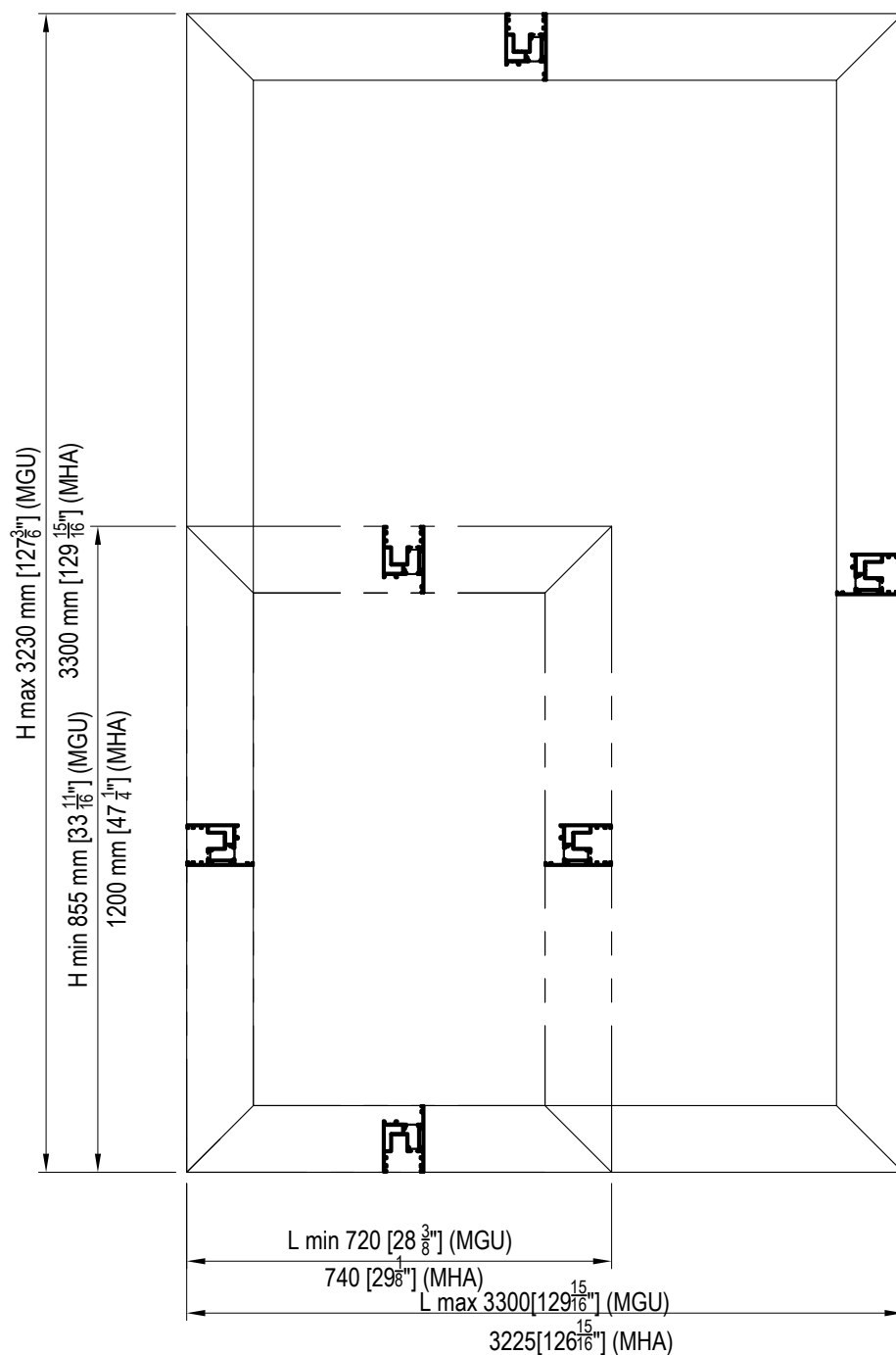
64 Inglis Place
Suite 203
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truro@cleb.com

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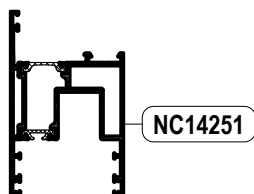
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Constructive dimensional limits of the sash relative to the hardware



For the correct dimensioning of the sashes refer to the diagrams about the static employment limits.



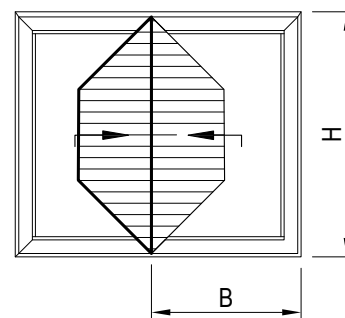
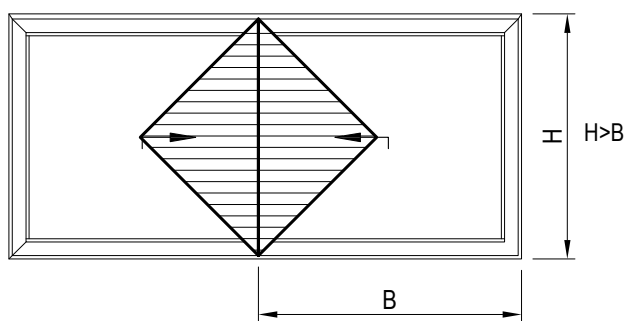
Static employment limits

Pressure 800 Pa

P = PRESSURE

f = DEFLECTION

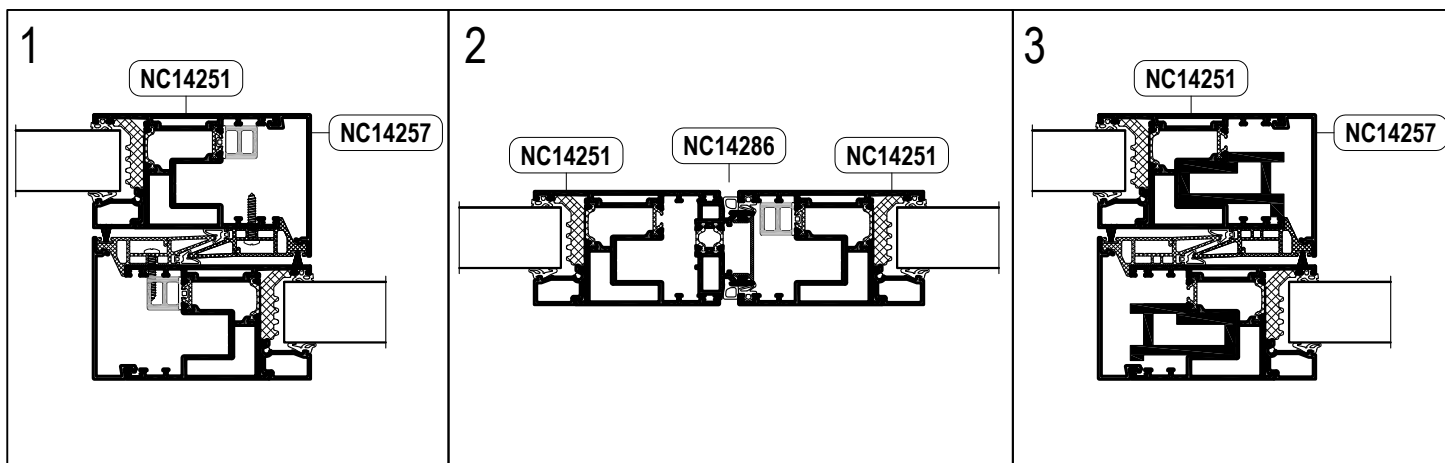
$H < B$



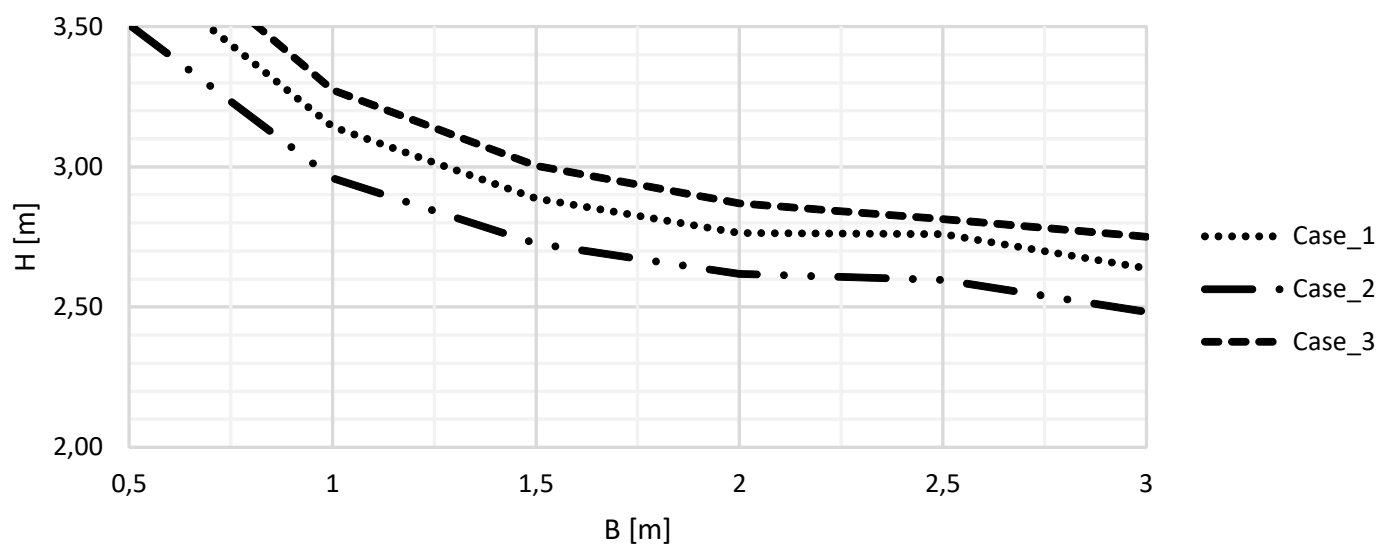
Check the maximum load capacity of the sash

$f_{\max} = \min(1/200 H; 12\text{mm}[1/2"])$

$H / B < 2,5$



P 800Pa



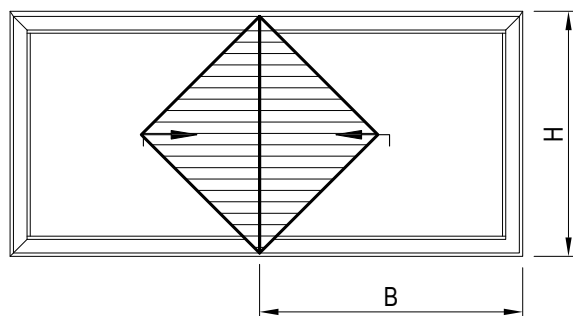
Static employment limits

Pressure 1200 Pa

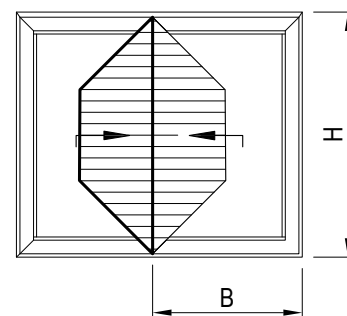
P = PRESSURE

f = DEFLECTION

H < B



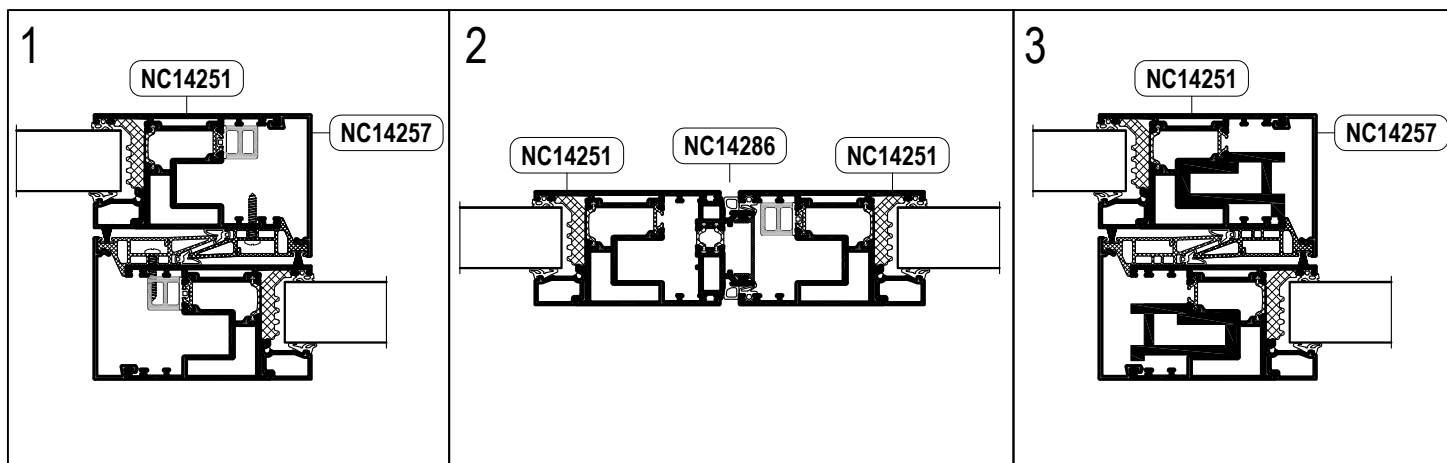
H > B



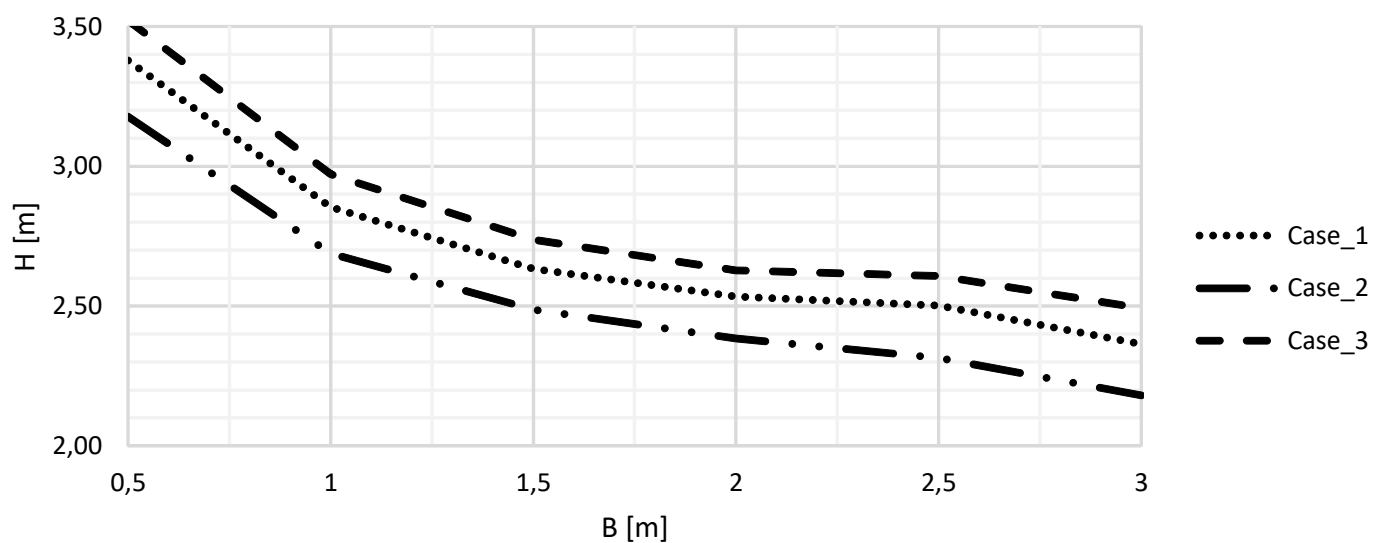
Check the maximum load capacity of the sash

$f_{\max} = \min(1/200 H; 12\text{mm}[1/2''])$

$H/B < 2,5$



P 1200Pa



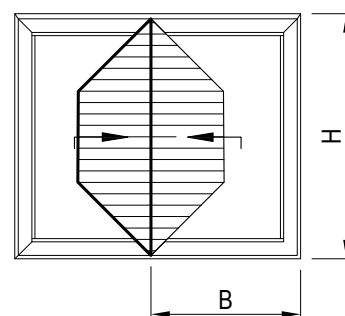
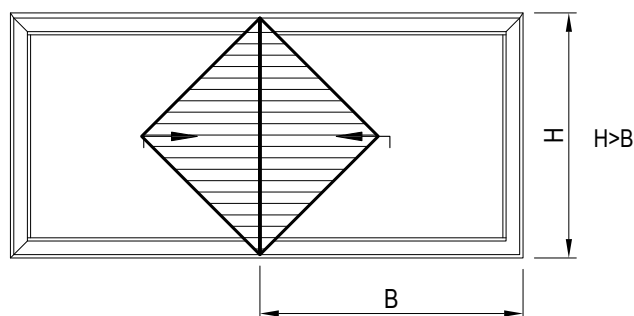
Static employment limits

Pressure 1600 Pa

P = PRESSURE

f = DEFLECTION

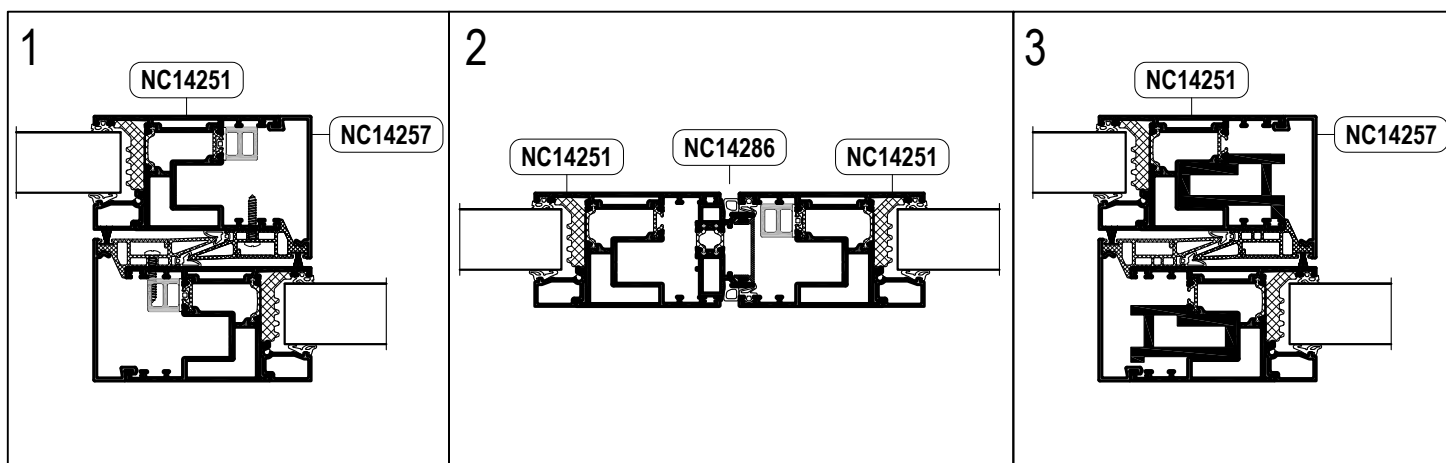
H < B



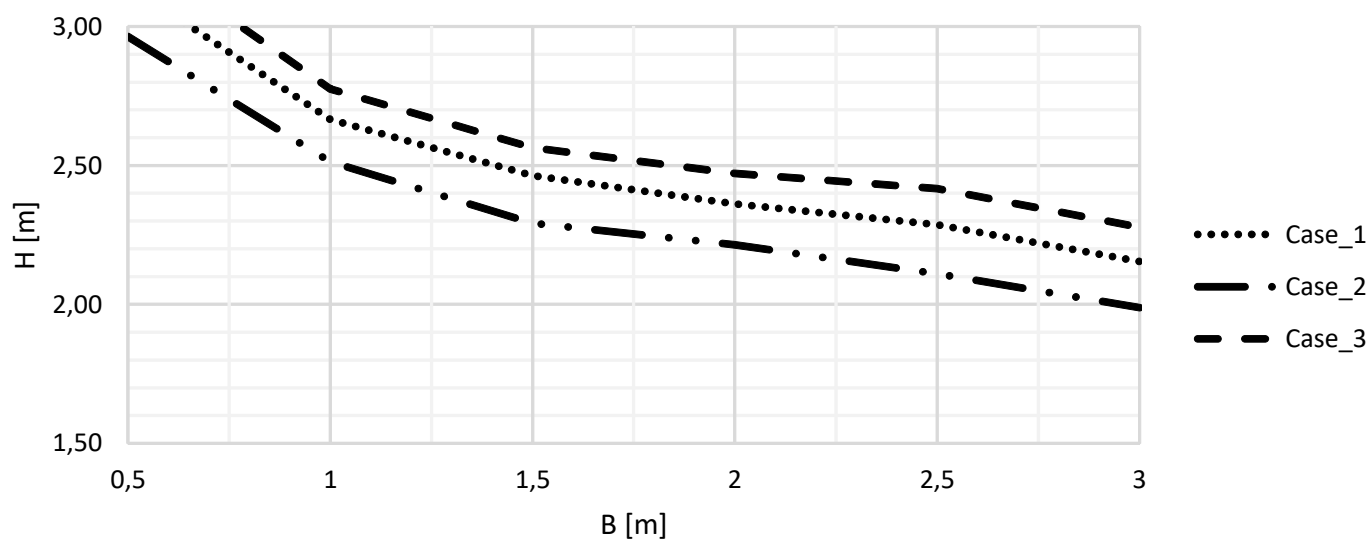
Check the maximum load capacity of the sash

$f_{\max} = \min(1/200 H; 12\text{mm}[1/2"])$

$H/B < 2,5$



P 1600Pa

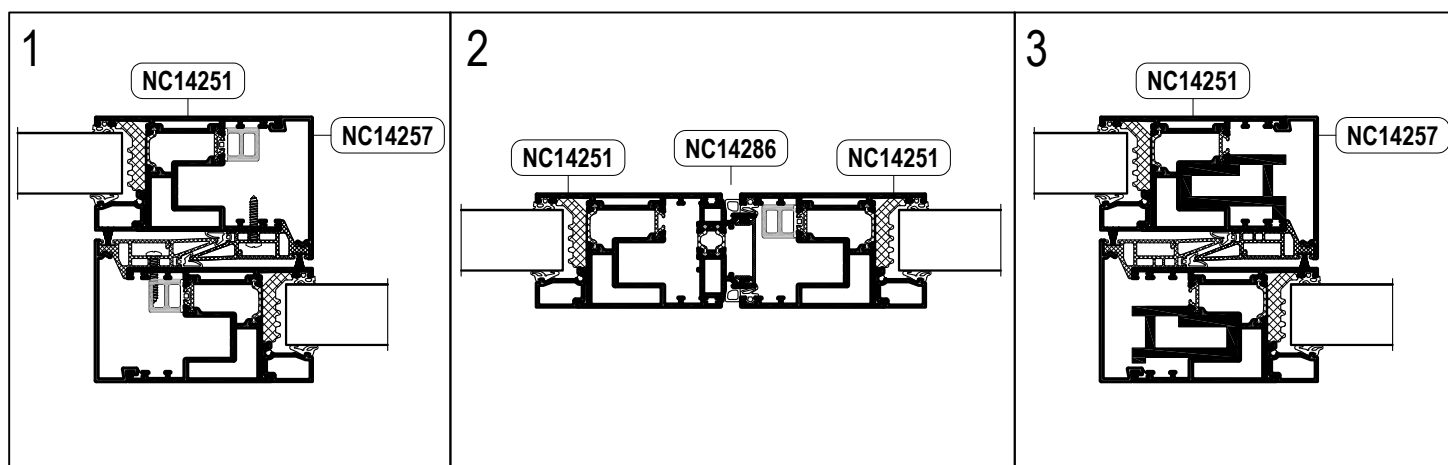
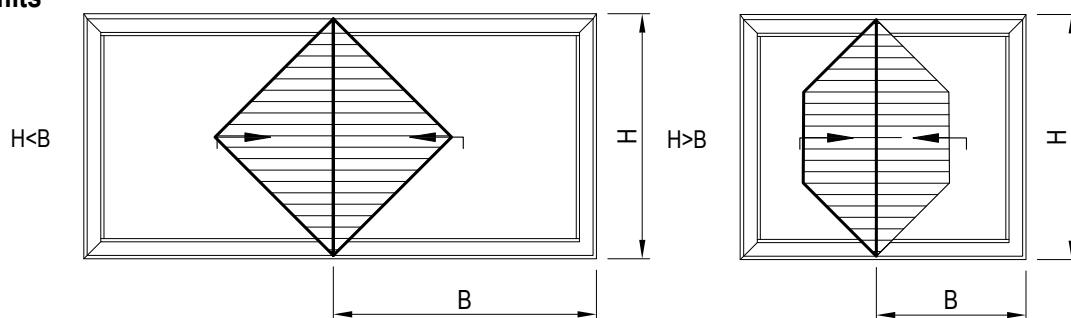


Static employment limits

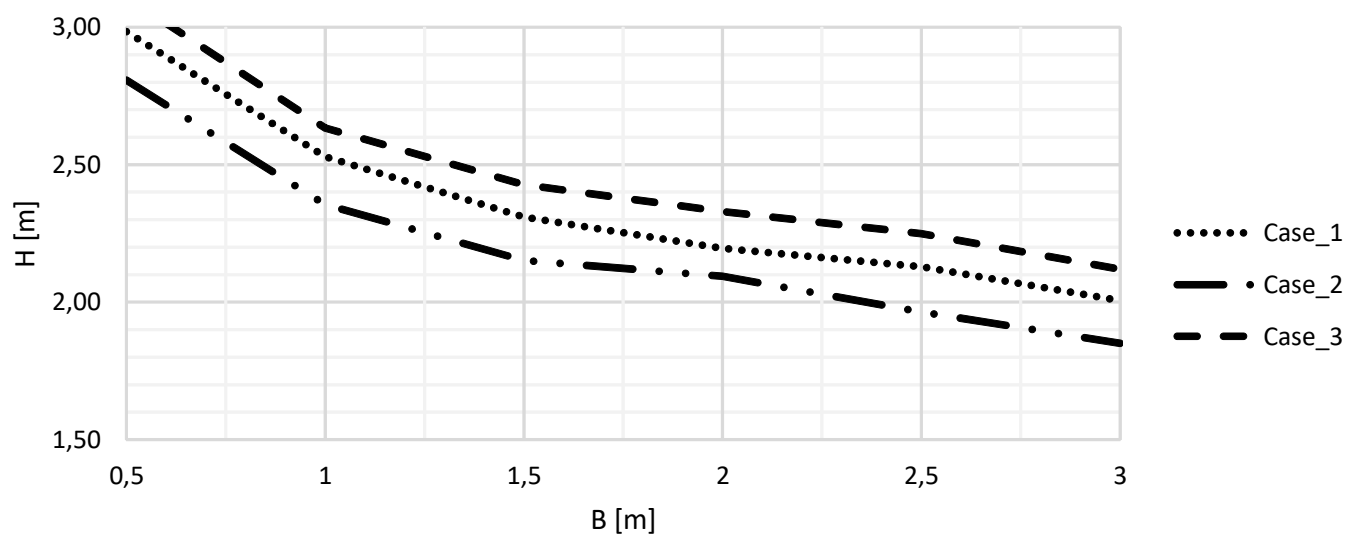
Pressure 2000 Pa

P = PRESSURE

f = DEFLECTION



P 2000Pa

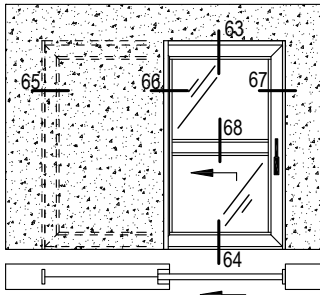


Feasible typologies

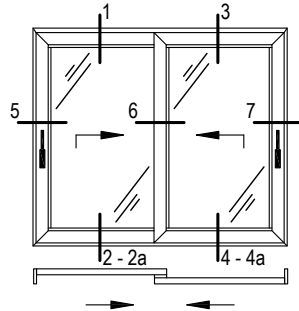
Frame 45° - Sash 45°

Lift and slide

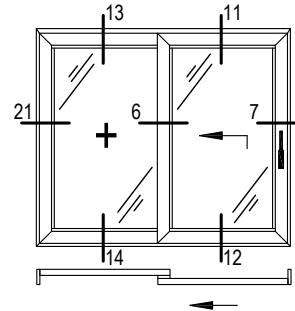
1 sash sliding in the wall



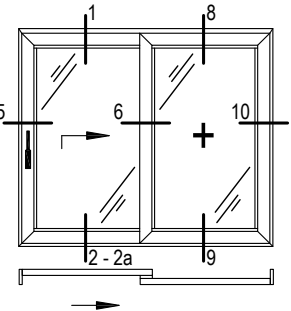
2 sliding sashes on 2 tracks



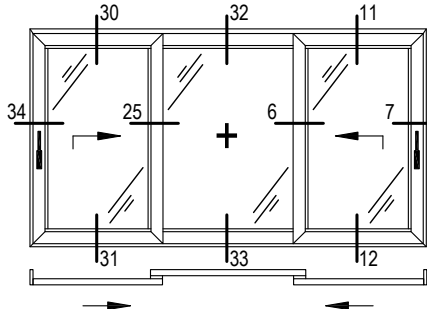
1 sliding sash with 1 fixed sash



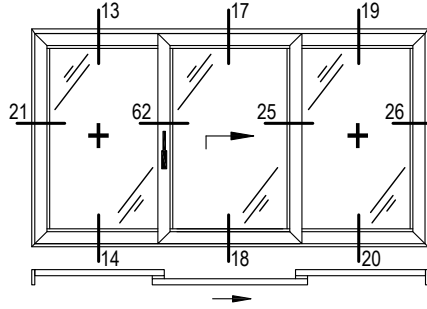
1 sliding sash with 1 fixed sash



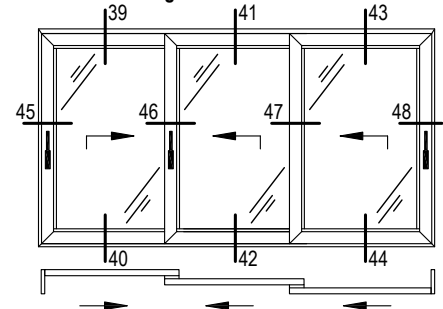
2 sliding sashes with 1 central fixed sash



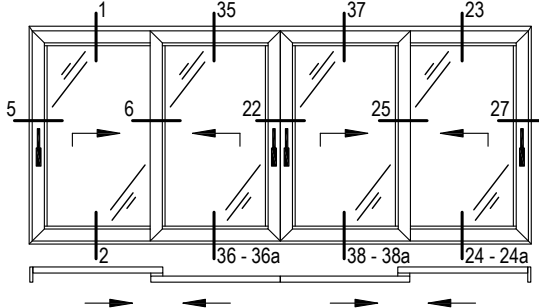
2 fixed sashes with 1 central sliding sash



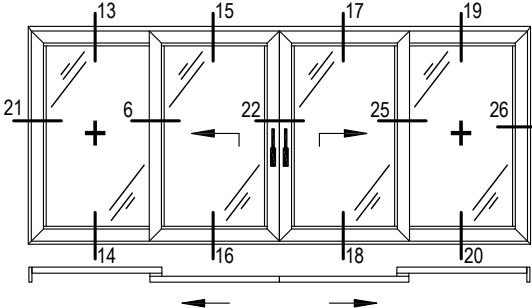
3 sliding sashes on 3 tracks



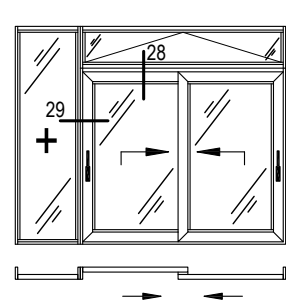
4 sliding sashes on 2 tracks



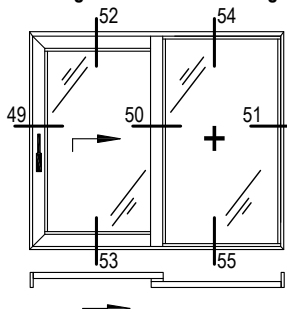
2 sliding sashes with 2 fixed sashes



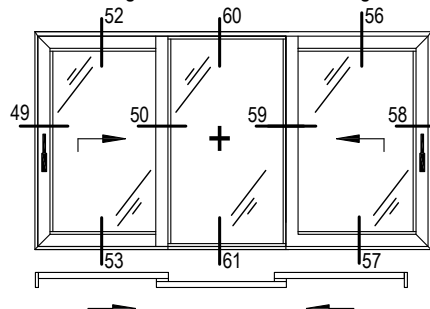
2 sliding sashes on 2 tracks with fanlight and fixed side light



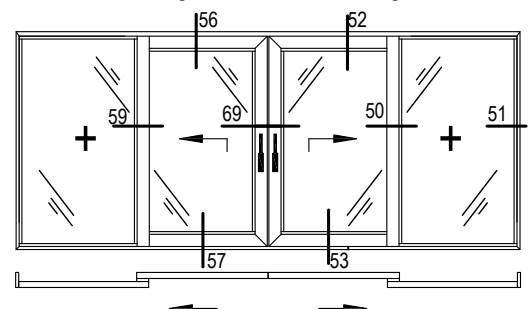
1 sliding sash with fixed side light



2 sliding sashes with fixed central light



2 sliding sashes with fixed side lights



Feasible types

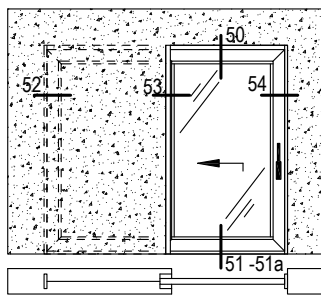
Frame 90° - sash 45°

Lift-and-slide

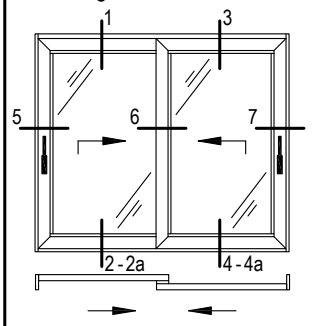


CW-PG30 / AW-PG40
TESTED

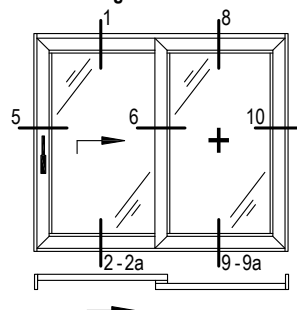
1 sash sliding in the wall



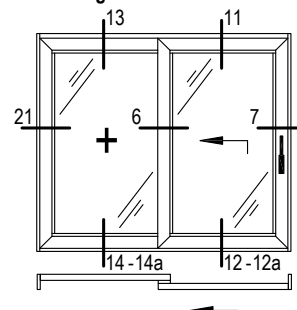
2 sliding sashes on 2 tracks



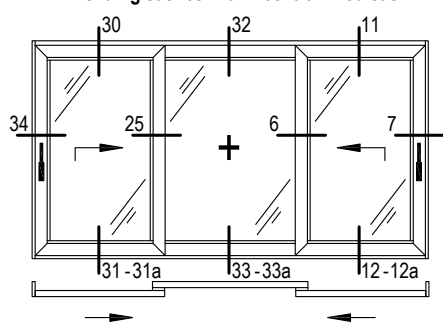
1 sliding sash with 1 fixed sash



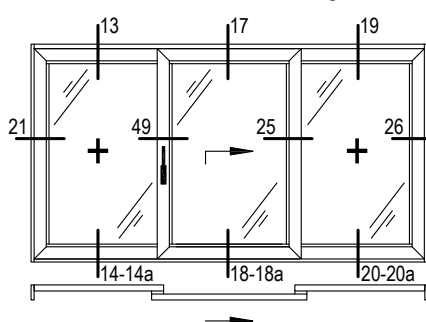
1 sliding sash with 1 fixed sash



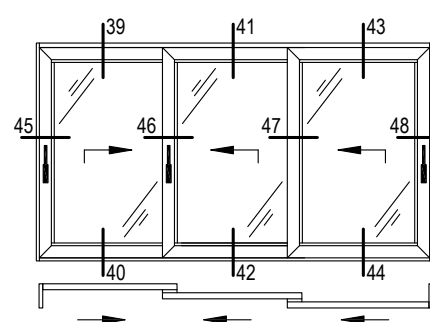
2 sliding sashes with 1 central fixed sash



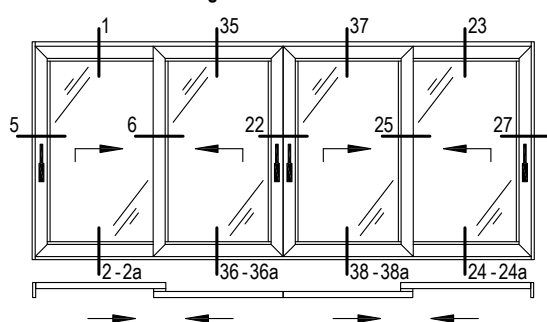
2 fixed sashes with 1 central sliding sash



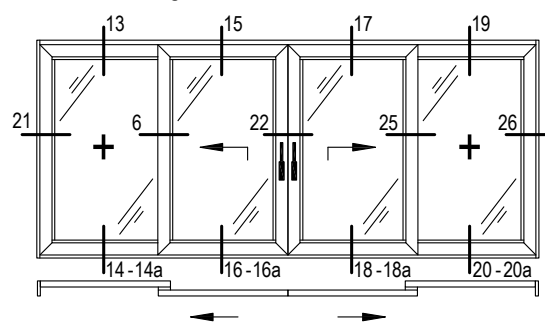
3 sliding sashes on 3 tracks



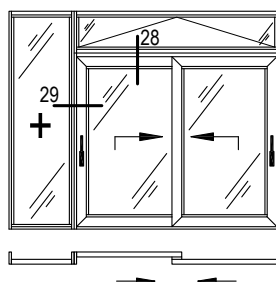
4 sliding sashes on 2 tracks



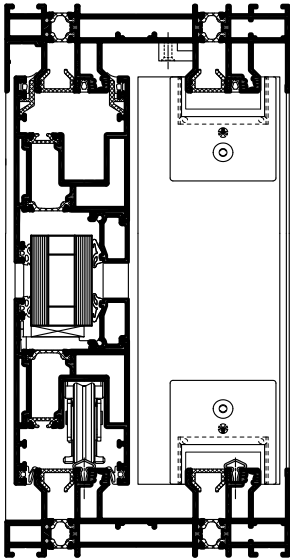
2 sliding sashes with 2 fixed sashes



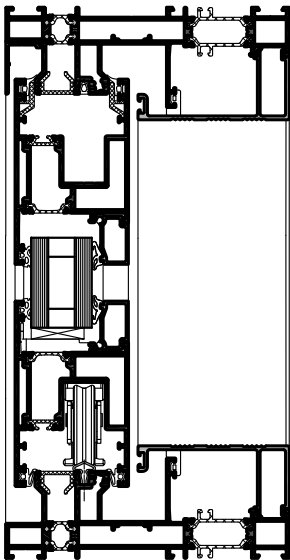
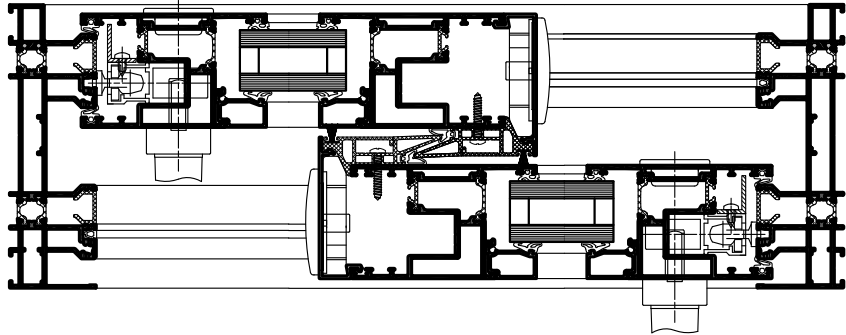
2 sliding sashes on 2 tracks with fanlight and fixed side light



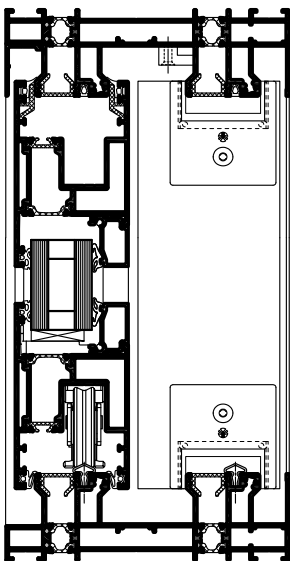
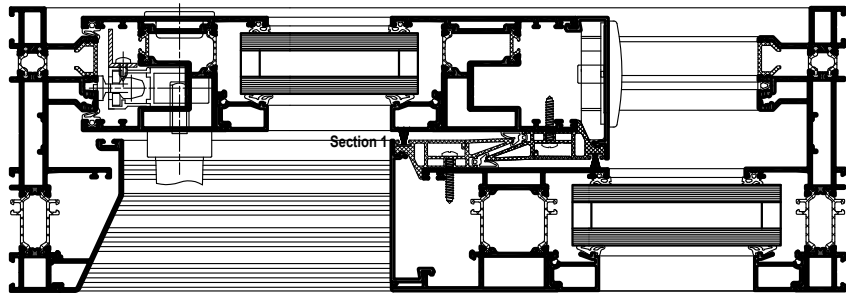
STANDARD configuration



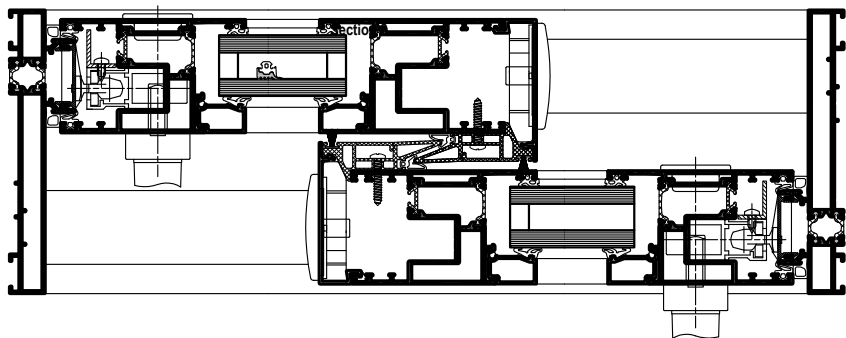
SOLUTION WITH FRAME ASSEMBLED AT 45°



SOLUTION WITH FRAME ASSEMBLED AT 45°

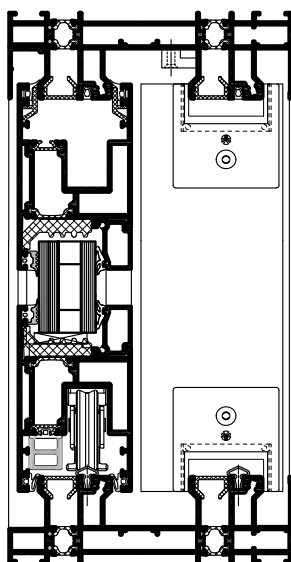
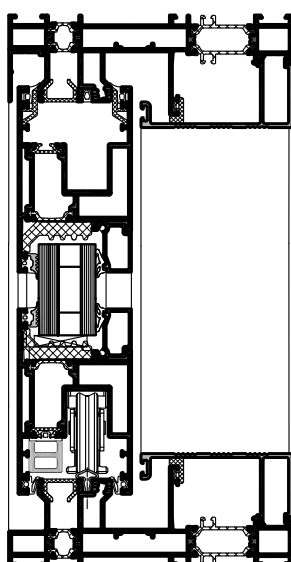
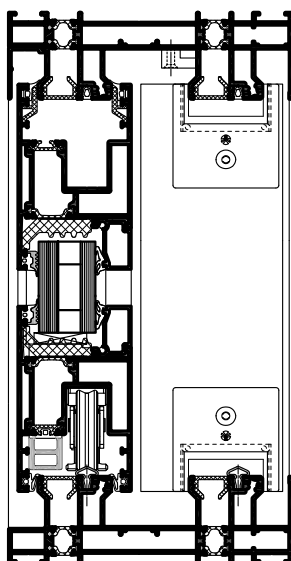


SOLUTION WITH FRAME ASSEMBLED AT 90°

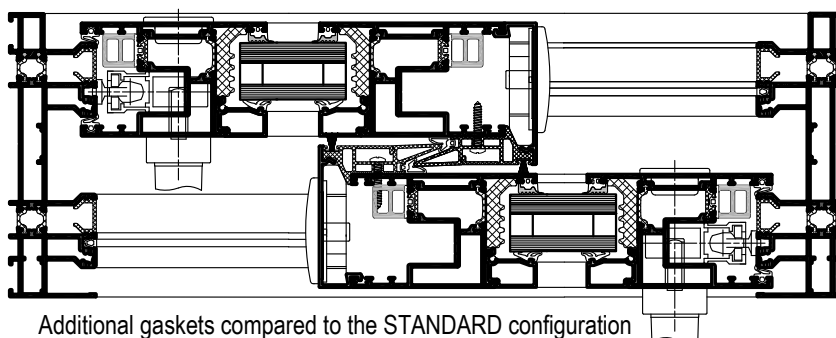


Scale 1:4

PLUS configuration

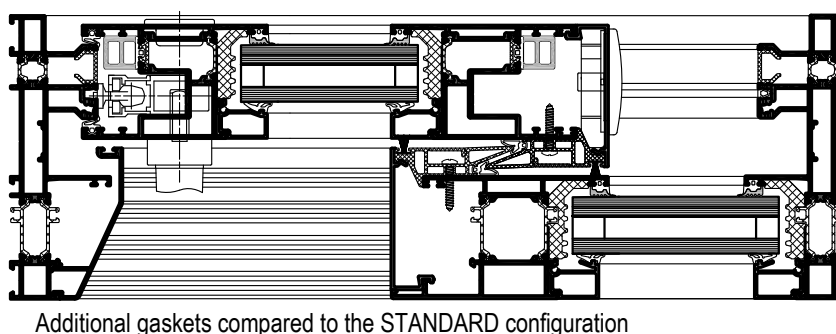


SOLUTION WITH FRAME ASSEMBLED AT 45°



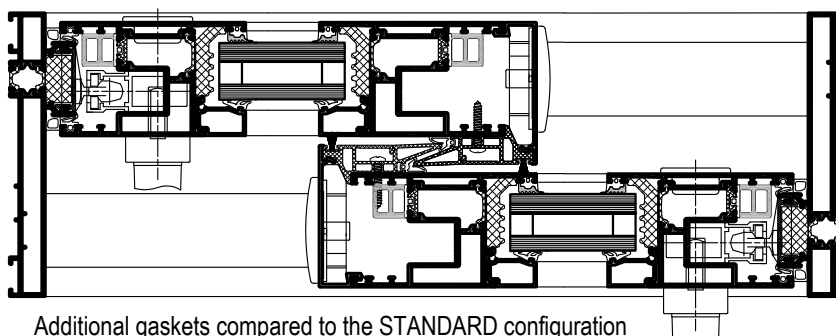
-  Insert insulating gasket MG188E
-  Insert the underglass insulation MG190PS
-  Insert the external glass gasket MG031T in place of gasket MG386D

SOLUTION WITH FRAME ASSEMBLED AT 45°



-  Insert insulating gasket MG188E
-  Insert the underglass insulation MG190PS
-  insert the underglass insulation MG281PS
-  Insert the external glass gasket MG031T in place of gasket MG386D

SOLUTION WITH FRAME ASSEMBLED AT 90°



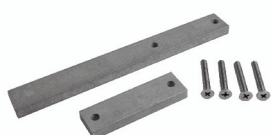
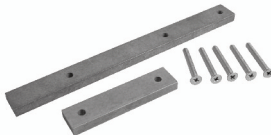
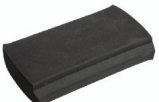
-  Insert the insulating gasket MG188E
-  Insert the underglass insulation MG190PS
-  Insert the insulation gasket MG189PS
-  Insert the external glass gasket MG031T in place of gasket MG386D

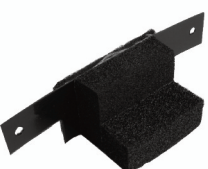
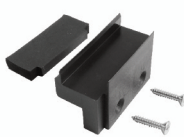
Scale 1:4

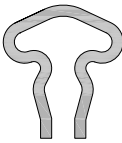
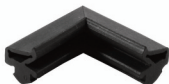


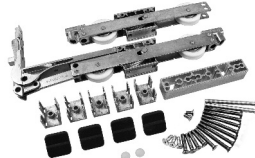
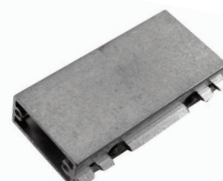
Accessories and gaskets

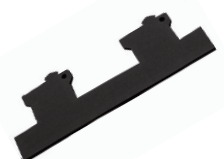
- Accessories group
- Gaskets group

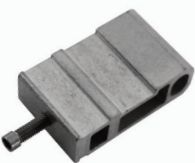
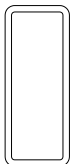
Code	Image	Use
MA 0154		Shim 19 mm for MA0155 Material: Nylon
MA 0155		Extension for HS lock Material: Steel - Aluminum
MA 0160		Lower weatherseal cap Material: EPDM
MA 0162		Kit support for MGU carriages Material: Aluminium - Steel
MA 0163		Kit support for MHA carriages Material: Aluminium - Steel
MA 0170		Wall adjustment Material: Nylon
MA 0172		Kit carriages load capacity 440 kg [970 lb] (pair) Material: Various
MA 0177		Lower cap for NC14296 Material: EPDM
MA 0178		Self adhesive pad for NC14296 Material: Adhesive rubber

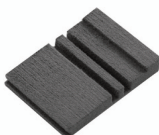
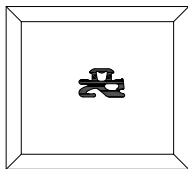
Code	Image	Use
MA 0179		Self adhesive pad for NC14295 Material: Adhesive rubber
MA 0180		Upper cap for NC14295 Material: Nylon - Sponge
MA 0181		Lower cap for NC14295 Material: Nylon - Sponge - Stainless steel
MA 0182		Ventilation latch Material: Steel
MA 0183		Lock keeper Material: Steel
MA 0185		Lock pin Material: Steel
MA 0186		Anti vibration spacer Material: EPDM
MA 0187		Kit central caps 4 sashes on 2 tracks Material: Nylon - Steel
MA 0188		Support for keeper MA0183 Material: Nylon

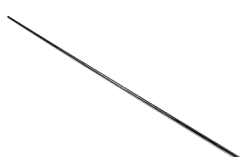
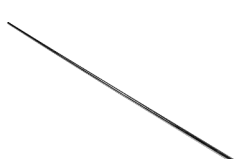
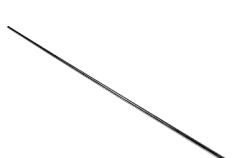
Code	Image	Use	Code	Image	Use
MA 0189		Kit comfort close (Sash weight lower than 150 kg[330lb]) Material: Aluminum - Steel	MA 0200		Track guide Material: Steel
MA 0190		Kit HS soft lift Material: Steel - Aluminum	MA 0202		Sash corner key Material: Die-cast aluminum
MA 0191		Kit comfort close (Sash weight from 150 kg to 300 kg[330lb - 661lb]) Material: Aluminum - Steel	MA 0203		Alignment corner key Material: Die-cast aluminum
MA 0193		Lift-and-slide base set 330 kg[727lb] Material: Steel - Nylon	MA 0205		Pin 3 mm x17 mm [$\frac{1}{8}$ " x $\frac{11}{16}$ "] Material: Aluminum
MA 0194		Lift-and-slide lock 1200 mm -1800 mm [47 $\frac{1}{4}$ " - 70 $\frac{1}{8}$ "] Material: Aluminum - Nylon	MA 0206		Sash top moulded corner for MG067D Material: EPDM
MA 0195		Lift-and-slide lock 1801 mm -2100 mm [70 $\frac{1}{8}$ " - 78 $\frac{1}{4}$ "] Material: Aluminum - Nylon	MA 0207		Sash bottom moulded corner (pair) for MG066D and MG067D Material: EPDM
MA 0196		Lift-and-slide lock 2101 mm - 2400 mm [78 $\frac{3}{4}$ " - 94 $\frac{1}{2}$ "] Material: Aluminum - Nylon	MA 0208		Screw FH 3.5 x 16 mm [$\frac{1}{8}$ " x $\frac{5}{8}$ "] Material: Steel
MA 0197		Lift-and-slide lock 2401 mm - 2700 mm [94 $\frac{1}{2}$ " - 106 $\frac{5}{8}$ "] Material: Aluminum - Nylon	MA 0210		Water drainage bush Material: Nylon
MA 0198		Keeper Material: Zamak	MA 0211		Water drainage cap Material: Nylon

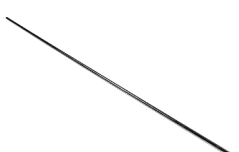
Code	Image	Use
MA 0212		Sash exterior weatherseal caps Material: Nylon - EPDM - Stainless steel
MA 0215		Lift-and slide base set 300 kg[661lb] Material: Steel - Nylon
MA 0217		Sash top centering device Material: Nylon
MA 0223		Support for fixed sash Material: Aluminum
MA 0224		Support for fixed sash Material: Aluminum
MA 0225		Plate for MA0223 Material: Aluminum
MA 0226		Fastening washer Material: Aluminum
MA 0227		Extension kit for lift-and-slide lock with locking point Material: Steel - Aluminum
MA 0229		Anti-shock cap Material: EPDM

Code	Image	Use
MA 0237		Screw RH 4.8 x 10 [5/16" x 3/8"] washer head Material: Stainless steel
MA 0238		Sash corner key Material: Die-cast aluminum
MA 0240		Self adhesive pad for NC14256 Material: Adhesive rubber
MA 0243		Sash interior weatherseal caps Material: EPDM - Nylon - Stainless steel
MA 0245		Self adhesive pad for NC14259 Material: Adhesive rubber
MA 0247		Frame bottom weatherseal caps Material: EPDM - Nylon - Stainless steel
MA 0248		Frame top weatherseal cap Material: Nylon - Sponge
MA 0249		Lower weatherseal cap Material: Various
MA 0290		Glass shimming base Material: Polypropylene

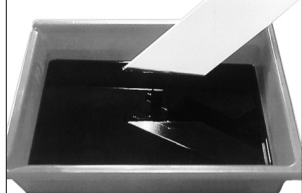
Code	Image	Use	Code	Image	Use
MA 0292		Self adhesive pad for 3 track frame Material: Adhesive rubber	MA 2845		Shear block Material: Extruded aluminum
MA 0293		Corner key Material: Die-cast aluminum	MA 2864		Pin Material: Zamak
MA 0294		Top weatherseal cap Material: Nylon - Spugna	MA 2984		Square spindle 10 mm x 58 mm [$\frac{7}{8}$ " x $2\frac{1}{8}$ "] Screws M6 x 70 mm [$2\frac{3}{4}$ "] Essence Material: Steel - Stainless steel
MA 0295		Bottom weatherseal cap Material: Nylon - EPDM - Stainless steel	MA 2985		Square spindle 10 mm x 113 mm [$\frac{7}{8}$ " x $4\frac{1}{8}$ "] Screws M6 x 70 mm [$2\frac{3}{4}$ "] Essence Material: Steel - Stainless steel
MA 0298		Keeper fastener (pair) Material: Zamak	MA 2988		Double pull handle HS Essence Material: Aluminum - Nylon - Steel
MA 2723		Internal reinforcement tube AW-PG 40 3m [118"]-bars Material: Stainless steel	MA 2989		Pull handle HS with flush pull grip Essence Material: Aluminium - Nylon - Steel
MA 2807		Corner key Material: Die-cast aluminum	MA 2990		Pull handle HS with key hole and flush pull grip Essence Material: Aluminium - Nylon - Steel
MA 2810		Corner key Material: Die-cast aluminum	MA 4144		Cap head screw 4.2 x 13 mm [$\frac{3}{16}$ " x $\frac{1}{2}$ "] Material: Stainless steel
MA 2844		Shear block Material: Extruded aluminum	MA 4564		Gasket for glass stop fixing Material: EPDM

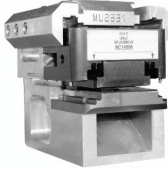
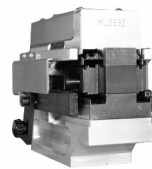
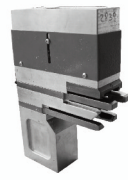
Code	Image	Use
MA 5521		Water drainage bush with membrane Material: Nylon
MA 5550		Pin Material: Zamak
MA 6337		Pan head screw 4.2 x 25 mm [3/16" x 1"] Material: Stainless steel
MA 7194		Plugging rubber for transom Material: EPDM
MA 7197		Glass shimming base for frames Material: Nylon
MA 7200		Pin screw Material: Steel
MA 7240		Cost vulcanized frame joint for MG386D
MA 9014		Anti-shock cap Material: Various
MA 9031		Cover Material: Aluminum

Code	Image	Use
MA 9032		Ventilation keeper Material: Aluminum - Zamak
MA 9051	H sash = 855 - 1275 mm [33 11/16" x 50 3/16"]" data-bbox="585 215 745 290"/>	Lock E = 47.5 mm [1 7/8"] H sash = 855 - 1275 mm [33 11/16" x 50 3/16"] Material: Aluminum - Steel
MA 9052	H sash = 1276 - 1855 mm [50 3/16" x 73 1/16"]" data-bbox="585 305 745 380"/>	Lock E = 47.5 mm [1 7/8"] H sash = 1276 - 1855 mm [50 3/16" x 73 1/16"] Material: Aluminum - Steel
MA 9053	H sash = 1856 - 2355 mm [73 1/16" x 92 11/16"]" data-bbox="585 395 745 470"/>	Lock E = 47.5 mm [1 7/8"] H sash = 1856 - 2355 mm [73 1/16" x 92 11/16"] Material: Aluminum - Steel
MA 9054	H sash = 2356 - 2755 mm [92 11/16" x 108 7/16"]" data-bbox="585 485 745 560"/>	Lock E = 47.5 mm [1 7/8"] H sash = 2356 - 2755 mm [92 11/16" x 108 7/16"] Material: Aluminum - Steel
MA 9055		Connection bar for sash L = 720 - 1600 mm [28 3/8" x 62"] Material: Steel
MA 9056		Connection bar for sash L = 1601 - 1850 mm [62" x 72 13/16"] Material: Steel
MA 9057		Connection bar for sash L = 1851 - 2350 mm [72 13/16" x 127 15/16"] Material: Steel
MA 9058		Connection bar for sash L = 2351 - 3300 mm [127 15/16" x 129 15/16"] Material: Steel

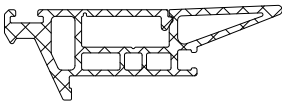
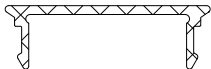
Code	Image	Use
MA 9078		Kit carriages load capacity 400kg [881lb] (pair) Material: Steel - Nylon
MA 9079		Lock spring for sashes over 200 kg [440lb] Material: Steel
MA 9105		Connection bar for sash L = 720-1500mm [28 ³ / ₈ " x 59 ¹ / ₁₆ "] Material: Steel
MA 9106		Connection bar for sash L = 1501-2000 mm[59 ¹ / ₁₆ " x 78 ³ / ₄ "] Material: Steel
MA 9107		Connection bar for sash L = 2001 - 2500 mm[79 ³ / ₄ " x 98 ⁷ / ₁₆ "] Material: Steel
MA 9108		Connection bar for sash L = 2501 - 3235 mm[98 ⁷ / ₁₆ " x 127 ³ / ₈ "] Material: Steel
MA 9117		Sash stop plug Material: Nylon - Steel
MA 9118		Ventilation keeper Material: Steel - Zamak
MA 9121		Sash anti-lifting block Material: Nylon

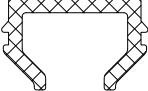
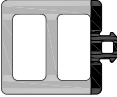
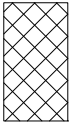
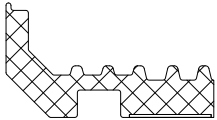
Code	Image	Use
MA 9144		Water drainage valve Material: Nylon
MA 9160		Water drainage valve Material: Nylon
MA 9163		Water drainage valve Material: Nylon
MA 9164		Extension for MA9163 Material: Nylon
MA 9174		Sash buffer stop with pan head screw 4.2 X 22 mm [3 ¹ / ₁₆ " x 7 ⁷ / ₈ "] Material: Nylon - Steel
MS 3076		Nickel-plated cylinder 55/40 mm [2 ¹ / ₈ " x 1 ⁵ / ₈ "] Material: Nickel-plated steel
MS 3080		Nickel-plated cylinder 10/40 mm [3 ⁷ / ₈ " x 1 ⁵ / ₈ "] Material: Nickel-plated steel

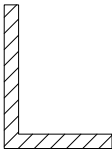
Code	Image	Use	Code	Image	Use
MU 0201		Milling group breakthrough for cap insertion Material: Steel	MU 0481		Low modulus neutral silicone Material: Silicone
MU 0440		Bicomponent glue 550 g cartridge [1lb 3.4 oz] Material: Glue	MU 0496		Self-tapping screw FH 3.5 x 20 mm [$1\frac{1}{8}$ " x $1\frac{3}{16}$ "] Material: Passivated steel
MU 0441		Manual gun for MU0440 Material: Steel	MU 0500		Glue for gaskets (20 g) [0.705oz] Material: Cyanoacrylate
MU 0442		Pneumatic gun for MU0440 Material: Steel	MU 0501		Sealant for MU3200 Material: Glue
MU 0443		Static mixer Material: Plastics	MU 0502		Protective liquid Material: Resin
MU 0455		Cleansing and maintenance kit for painted aluminum windows and doors Material: -	MU 0520		Scissors for the gasket cutting at 45° Material: Nylon - Steel
MU 0456		Cleansing and maintenance kit for anodized aluminum windows and doors Material: -	MU 0541		Cap head screw 4.8 x 32 mm [$3\frac{1}{16}$ " x $1\frac{1}{4}$ "] Material: Stainless steel
MU 0471		Trasparent silicone Material: Silicone	MU 0542		Cap head screw 4.2 x 32 mm [$3\frac{1}{16}$ " x $1\frac{1}{4}$ "] Material: Stainless steel
MU 0480		Acetic silicone Material: Silicone	MU 0543		Cap head screw 5.5 x 50 mm [$3\frac{1}{16}$ " x $1\frac{15}{16}$ "] Material: Stainless steel

Code	Image	Use	Code	Image	Use
MU 0544		Cap head screw 5.5 x 65 mm [$\frac{3}{16}$ " x $2\frac{9}{16}$ "] Material: Stainless steel	MU 2822		Power group (7 positions) Material: Steel
MU 0545		Cap head screw 5.5 x 45 mm [$\frac{3}{16}$ " x $1\frac{3}{4}$ "] Material: Stainless steel	MU 2823		Punch unit Material: Steel
MU 0572		Cap head screw 4,2 x 9,5 [$\frac{3}{16}$ " x $\frac{3}{8}$ "] Material: Stainless steel	MU 2831		Punch unit Material: Steel
MU 0599		Drill bit 2 diameters with spot facer Material: Steel	MU 2832		Punch unit Material: Steel
MU 0706		Cap head screw 4.8 x 16 mm [$\frac{3}{16}$ " x $\frac{5}{8}$ "] Material: Stainless steel	MU 2836		Support bench for MU2822 Material: Steel
MU 2800		Power group (12 positions) Material: Steel	MU 2839		Punch unit Material: Steel
MU 2801		Support bench for MU2800 Material: Steel	MU 2841		Punch unit Material: Various
MU 2802		Punch unit Material: Various	MU 2842		Template Material: Steel
MU 2812		Punch unit Material: Steel	MU 2853		Rotable support kit for MU2822 Material: Steel

Sigla	Disegno	Impiego	Sigla	Disegno	Impiego
MU 3200		Glue machine Material: Steel - Nylon			

Code	Image	Use
MG 031T		External glazing gasket 6 mm [¼"] Material: EPDM
MG 040D		Stroke end gasket Material: EPDM
MG 041D		Cover gasket Material: EPDM
MG 042S		Brush gasket Material: Polypropylene
MG 060P		Spacer for interlock profile 3.3 m[10 ft] bars Material: PVC
MG 061P		Jamb cover 3.3 m[10 ft] bars Material: PVC
MG 063D		Stroke end gasket Material: EPDM
MG 066D		Sash top weatherseal gasket Material: EPDM
MG 067D		Sash weatherseal gasket Material: EPDM

Code	Image	Use
MG 068D		Track cover Material: EPDM
MG 153D		Glass stopgasket in pieces Material: EPDM
MG 186D		Cover gasket Material: EPDM
MG 187P		Track cover Material: PVC
MG 188E		Insulating gasket Material: EPDM foam
MG 189PS		Insulating gasket Material: EPDM foam
MG 190PS		Insulating gasket Material: EPDM foam
MG 281PS		Insulating gasket Material: Polyethylene foam
MG 386D		External glazing gasket Material: EPDM

Code	Image	Use	Code	Image	Use
MG 475D		Wall rabbet gasket Material: EPDM			
MG 612D		Glazing gasket 3-4 mm [$\frac{1}{8}$ " - $\frac{3}{16}$ "] Material: EPDM			
MG 613D		Glazing gasket 4-6 mm [$\frac{3}{16}$ " - $\frac{1}{4}$ "] Material: EPDM			
MG 614D		Glazing gasket 6-8 mm [$\frac{1}{4}$ " - $\frac{5}{16}$ "] Material: EPDM			
MG 671D		Spacing gasket 10 mm [$\frac{3}{8}$ "] Material: EPDM			
MG 673D		Spacing gasket 2 mm [$\frac{1}{16}$ "] Material: EPDM			
MG 770T		External glazing gasket Material: EPDM			
MG 954P		Finishing gasket Material: PVC			
MG 956D		Glass stop bearing gasket Material: EPDM			

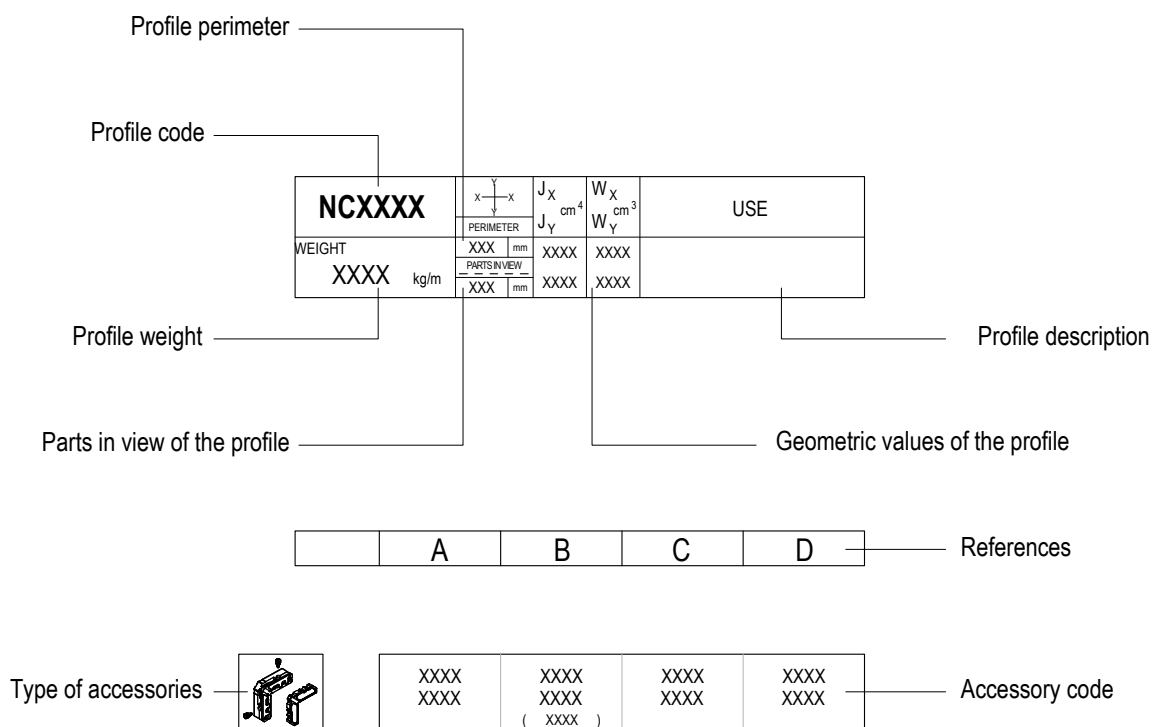
Profiles

Groups A-B

- Description and technical data of the single profiles

Catalogue consultation guide

Key for the group B tables



Symbol key



Accessories for corner assembly
For total plugging



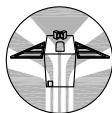
Accessories for corner assembly
For total crimping



Screws



U-Bolt



Crimping machine



Milling group



Endmill



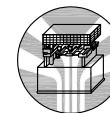
Drilling bit



Information



Glue



Punching machine



Sealing



Attention !!

PROFILE CLASS

What is the Profile Class?

Is the fastest way to know
if a shape is available for production

How many classes do we have?

Y

1. Class Y: Extrusion die available at Metra Systems.

Profiles available on short term

Minimum quantities required

Please verify term and conditions with
Metra Systems sales department

N

2. Class N: Extrusion die is not available at Metra Systems.

Please verify term and conditions with
Metra Systems sales department

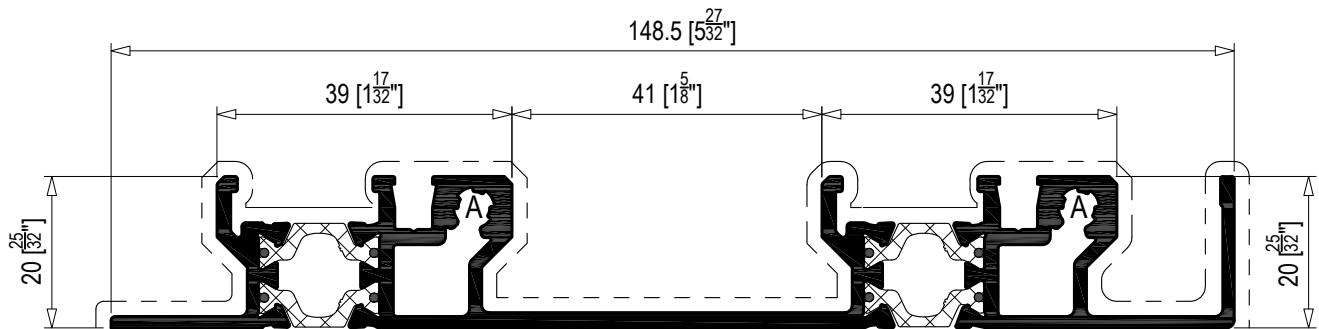
Where do I see the Profile Class?

At the Profile Chart - Group A (next page)

SECTION	CODE	DESIGNATION (mm)	DESIGNATION (in)	DESIGNATION (mm)	DESIGNATION (in)	USE	TABLE	C
T	NC1088	650 (25.98)	95 (3.74)	35 (1.38)	35 (1.38)	Diap	8007	
	NC1086	650 (25.98)	154 (6.06)	95 (3.74)	95 (3.74)	Screen cover for NC14256	8000	
C	NC1351	650 (25.98)	113 (4.45)	25 (0.98)	25 (0.98)	Glass strip	8010	
	NC1352	650 (25.98)	128 (5.04)	25 (0.98)	25 (0.98)	Glass strip	8010	
E	NC1353	650 (25.98)	94 (3.70)	35 (1.38)	35 (1.38)	Glass strip	8010	
	NC1354	650 (25.98)	118 (4.65)	48 (1.89)	48 (1.89)	Glass strip	8010	
A	NC1355	650 (25.98)	128 (5.04)	48 (1.89)	48 (1.89)	Glass strip	8011	
	NC1356	650 (25.98)	128 (5.04)	50 (1.97)	50 (1.97)	Glass strip	8011	
C	NC1357	650 (25.98)	148 (5.83)	50 (1.97)	50 (1.97)	Glass strip	8011	
	NC1358	650 (25.98)	158 (6.22)	48 (1.89)	48 (1.89)	Glass strip	8011	
E	NC1359	650 (25.98)	158 (6.22)	65 (2.56)	65 (2.56)	Glass strip	8011	
	NC1350	650 (25.98)	179 (7.05)	79 (3.11)	79 (3.11)	Glass strip	8012	
C	NC1351	650 (25.98)	188 (7.40)	79 (3.11)	79 (3.11)	Glass strip	8012	
	NC1352	650 (25.98)	188 (7.40)	80 (3.15)	80 (3.15)	Glass strip	8012	
C	NC1370	650 (25.98)	95 (3.74)	22 (0.87)	22 (0.87)	Glass strip	8012	
	NC1371	650 (25.98)	128 (5.04)	38 (1.50)	38 (1.50)	Wood slat	8007	
T	NC14251	650 (25.98)	548 (21.58)	188 (7.40)	188 (7.40)	Seal	8012	
	NC14253	650 (25.98)	479 (18.86)	214 (8.43)	214 (8.43)	2 Track joint	8012	
T	NC14256	650 (25.98)	511 (20.12)	240 (9.45)	240 (9.45)	2 Track frame	8001	
	NC14257	650 (25.98)	227 (8.94)	191 (7.52)	191 (7.52)	Interlock profile	8000	
T	NC14259	650 (25.98)	498 (19.61)	240 (9.45)	240 (9.45)	2 Track frame	8001	
	NC14260	650 (25.98)	1009 (39.72)	421 (16.58)	421 (16.58)	3 Track frame	8002	
T	NC14261	650 (25.98)	682 (26.85)	228 (8.98)	228 (8.98)	Frame	8002	
	NC14262	650 (25.98)	687 (27.05)	244 (9.61)	244 (9.61)	3 Track joint	8002	

SECTION	CODE	BAR LENGHT m [ft]	EXT. PERIM. mm	VISIBLE SURFACE mm	USE	TABLE	CLASS
	NC6588	6500 [21'3 $\frac{1}{8}$ "	95 [2.282]	35 [0.841]	Drip	B007	Y
	NC10086	6500 [21'3 $\frac{1}{8}$ "	154 [3.7]	55 [1.321]	Screw cover for NC14298	B009	N
	NC13581	6500 [21'3 $\frac{1}{8}$ "	113 [2.715]	25 [0.601]	Glass stop	B010	N
	NC13582	6500 [21'3 $\frac{1}{8}$ "	130 [3.123]	30 [0.721]	Glass stop	B010	N
	NC13583	6500 [21'3 $\frac{1}{8}$ "	94 [2.258]	35 [0.841]	Glass stop	B010	Y
	NC13584	6500 [21'3 $\frac{1}{8}$ "	118 [2.835]	40 [0.961]	Glass stop	B010	Y
	NC13585	6500 [21'3 $\frac{1}{8}$ "	128 [3.075]	45 [1.081]	Glass stop	B011	N
	NC13586	6500 [21'3 $\frac{1}{8}$ "	138 [3.315]	50 [1.201]	Glass stop	B011	N
	NC13587	6500 [21'3 $\frac{1}{8}$ "	148 [3.556]	55 [1.321]	Glass stop	B011	N
	NC13588	6500 [21'3 $\frac{1}{8}$ "	158 [3.796]	60 [1.442]	Glass stop	B011	N
	NC13589	6500 [21'3 $\frac{1}{8}$ "	168 [4.036]	65 [1.562]	Glass stop	B011	N
	NC13590	6500 [21'3 $\frac{1}{8}$ "	179 [4.3]	70 [1.682]	Glass stop	B012	N
	NC13591	6500 [21'3 $\frac{1}{8}$ "	188 [4.517]	75 [1.802]	Glass stop	B012	N
	NC13592	6500 [21'3 $\frac{1}{8}$ "	198 [4.757]	80 [1.922]	Glass stop	B012	N
	NC13707	6500 [21'3 $\frac{1}{8}$ "	99 [2.378]	22 [0.529]	Glass stop	B012	N
	NC13711	6500 [21'3 $\frac{1}{8}$ "	139 [3.339]	38 [0.913]	Wall rabbet	B007	N
	NC14251	6500 [21'3 $\frac{1}{8}$ "	540 [12.974]	198 [4.757]	Sash	B005	Y
	NC14253	6500 [21'3 $\frac{1}{8}$ "	470 [11.292]	214 [5.141]	2 Track jamb	B002	Y
	NC14256	6500 [21'3 $\frac{1}{8}$ "	511 [12.277]	249 [5.982]	2 Track frame	B001	Y
	NC14257	6500 [21'3 $\frac{1}{8}$ "	227 [5.454]	101 [2.427]	Interlock profile	B006	Y
	NC14259	6500 [21'3 $\frac{1}{8}$ "	498 [11.964]	269 [6.463]	2 Track frame	B001	N
	NC14260	6500 [21'3 $\frac{1}{8}$ "	1050 [25.226]	422 [10.139]	3 Track frame	B003	Y
	NC14261	6500 [21'3 $\frac{1}{8}$ "	682 [16.385]	228 [5.478]	Frame	B002	N
	NC14262	6500 [21'3 $\frac{1}{8}$ "	697 [16.745]	294 [7.063]	3 Track jamb	B003	Y

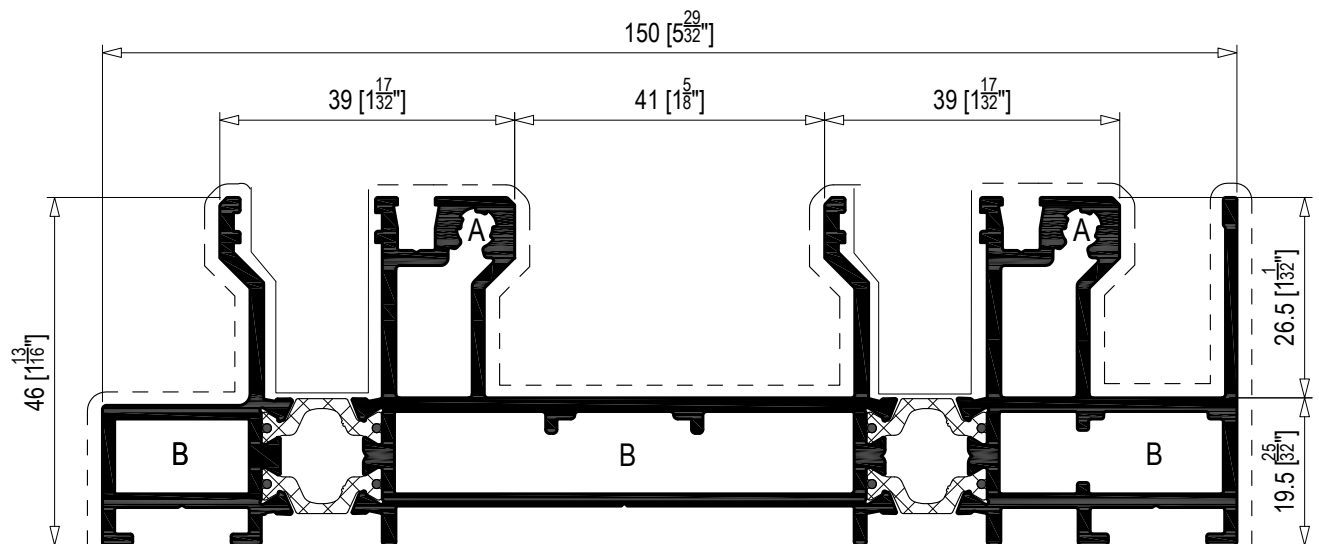
130A003 rev 1



COMPONENTS

SHAPE	CODE	OUT. PERIMETER	EXPOSED SURFACE
e 	NC6561	113 [4.44"]	50 [1.96"]
i 	NC14266	285 [14.29"]	114 [4.48"]
i 	NC14267	188 [7.40"]	104 [4.09"]
	425300		

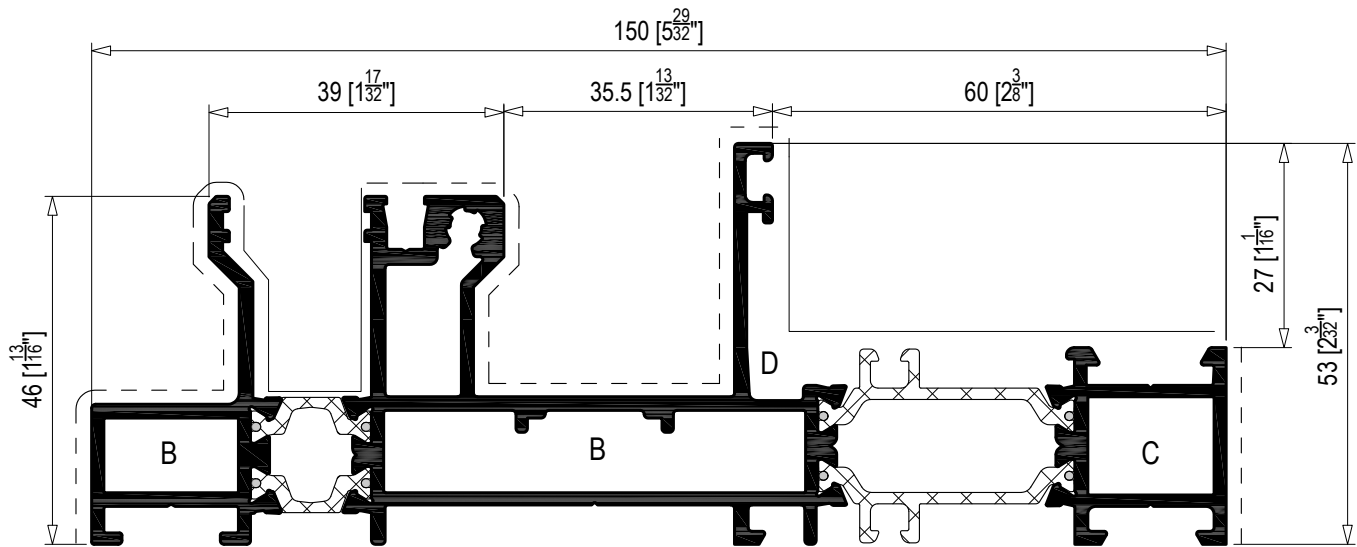
NC14259				I_x cm ⁴ I_y [in ⁴]	S_x cm ³ S_y [in ³]	USE
PERIMETER	498 [19.61]	mm in		2.796 [0.067]	2.346 [0.143]	2 Track Frame
VISIBLE SURFACE	269 [10.59]	mm in		119.645 [2.874]	15.224 [0.929]	
	A		B		C	D
	MU0541					



COMPONENTS

SHAPE	CODE	OUT. PERIMETER	EXPOSED SURFACE
e 	NC6532	183 [7.20"]	75 [2.95"]
i 	NC14255	363 [14.29"]	122 [4.80"]
i 	NC14258	287 [11.29"]	110 [4.33"]
	425300		

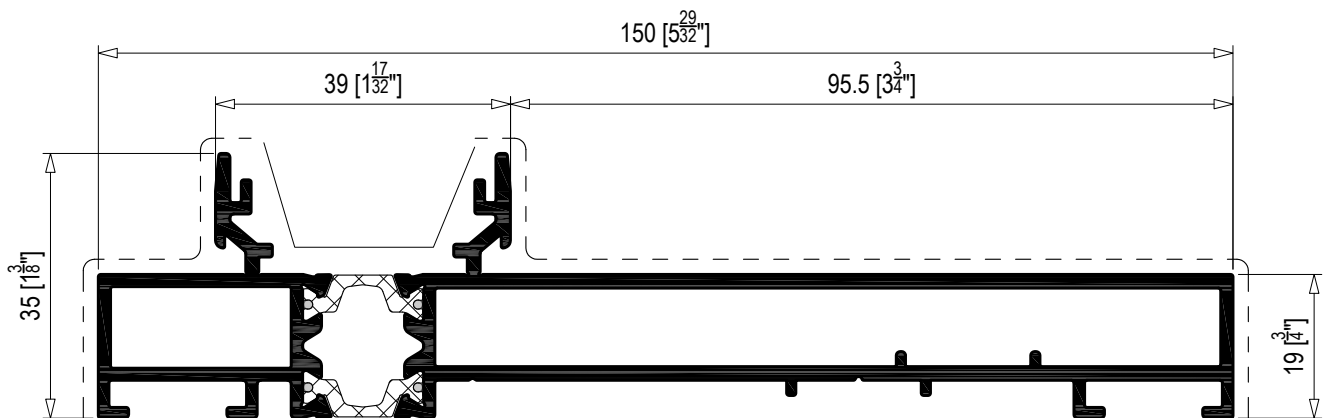
NC14256				I_x cm ⁴ I_y [in ⁴]	S_x cm ³ S_y [in ³]	USE	
PERIMETER	511 [20.12]	mm in		21.304 [0.512]	8.397 [0.512]	2 Track Frame	
VISIBLE SURFACE	249 [9.8]	mm in		249.152 [5.986]	31.387 [1.915]		
	A		B		C		D
	MU0541						
			MA0293 MA7200				



COMPONENTS

SHAPE	CODE	OUT. PERIMETER	EXPOSED SURFACE
	NC6532	183 [7.20"]	75 [2.95"]
	NC13501	153 [6.02"]	29 [1.14"]
	NC14268	394 [15.51"]	116 [4.56"]
	PA0064		
	425300		

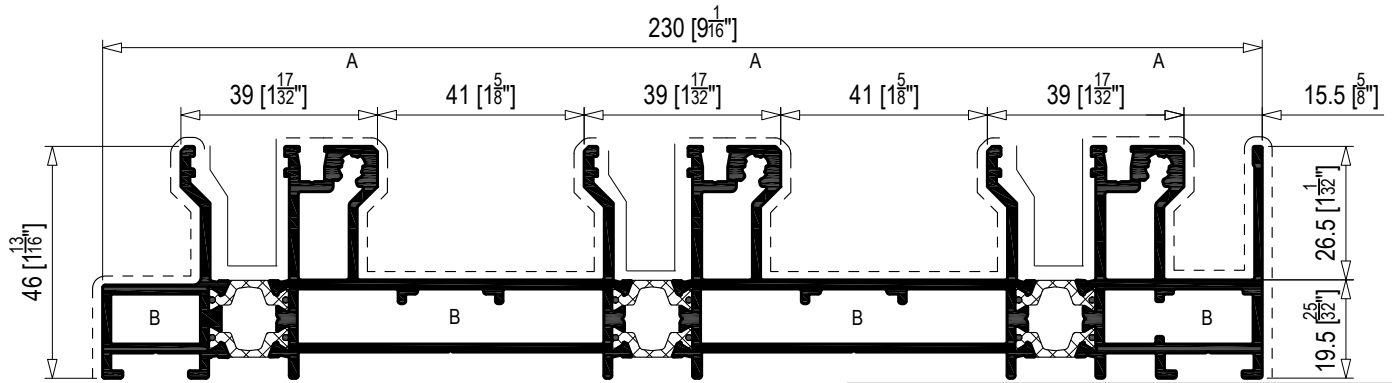
NC14261			I_x cm ⁴ I_y [in ⁴]	S_x cm ³ S_y [in ³]	USE		
PERIMETER	682 [26.85]	mm in		16.262 [0.391]	4.772 [0.291]	Frame	
VISIBLE SURFACE	228 [8.98]	mm in		175.166 [4.208]	20.9 [1.275]		
		A		B		C	D
				MA0293 MA7200		MA2807 MA5550	MA2810



COMPONENTS

SHAPE	CODE	OUT. PERIMETER	EXPOSED SURFACE
	NC14279	368 [14.48"]	160 [6.29"]
	NC14280	200 [7.87"]	54 [2.12"]
	425300		

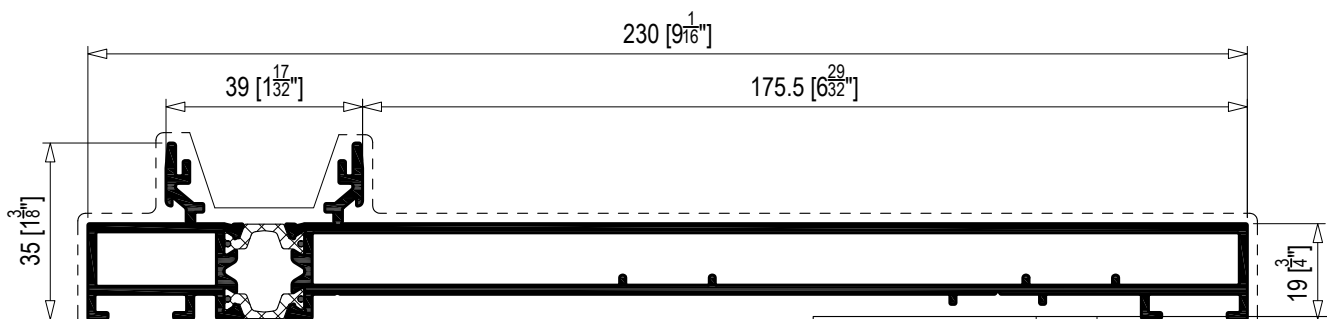
NC14253			I_x cm ⁴ I_y [in ⁴]	S_x cm ³ S_y [in ³]	USE
PERIMETER	470 [18.5]	mm [in]		4.705 [0.113]	2 Track Jamb
VISIBLE SURFACE	214 [8.43]	mm [in]		156.334 [3.756]	



NC14260				$I_{x \text{ cm}^4}$ $I_{y \text{ cm}^4}$	$S_{x \text{ cm}^3}$ $S_{y \text{ cm}^3}$	USE
PERIMETER	1050 [41.34]	mm in		30.692 [0.737]	12.19 [0.744]	3 Track Frame
VISIBLE SURFACE	422 [16.61]	mm in		844.216 [20.282]	70.543 [4.305]	

COMPONENTS

SHAPE	CODE	OUT. PERIMETER	EXPOSED SURFACE
 e	NC6532	183 [7.20"]	75 [2.95"]
 i	NC14255	363 [14.29"]	122 [4.80"]
 i	NC14255	363 [14.29"]	122 [4.80"]
 i	NC14258	287 [11.29"]	110 [4.33"]
	425300		

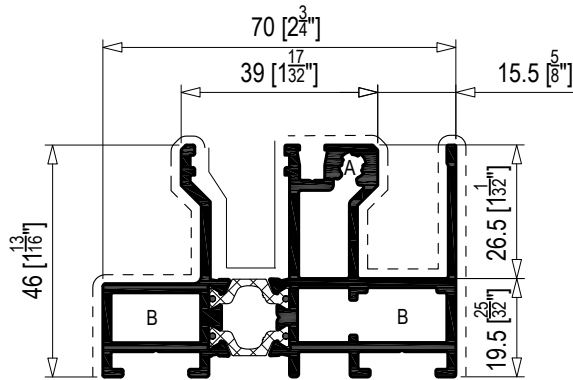


NC14262				$I_{x \text{ cm}^4}$ $I_{y \text{ cm}^4}$	$S_{x \text{ cm}^3}$ $S_{y \text{ cm}^3}$	USE
PERIMETER	697 [27.44]	mm in		5.806 [0.139]	2.582 [0.158]	3 Track Jamb
VISIBLE SURFACE	294 [11.57]	mm in		528.405 [12.695]	42.823 [2.613]	

COMPONENTS

SHAPE	CODE	OUT. PERIMETER	EXPOSED SURFACE
 e	NC14280	200 [7.87"]	54 [2.12"]
 i	NC14282	528 [20.78"]	240 [9.44"]
	425300		

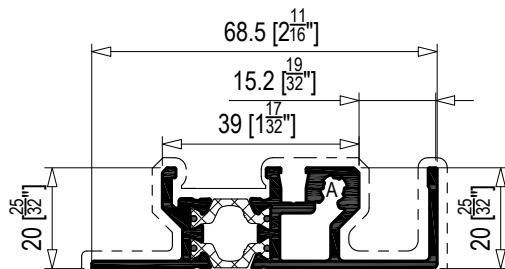
Scale 1:1.5



NC14295				I_x cm ⁴ I_y [in ⁴]	S_x cm ³ S_y [in ³]	USE	
PERIMETER	420 [16.54]	mm in		11.779 [0.283]	4.577 [0.279]	Frame (Pocket Door)	
<u>VISIBLE SURFACE</u>	180 [7.09]	mm in		25.881 [0.622]	6.71 [0.409]		
	A		B		C		D
	MU0541						
			MA0293 MA7200				

COMPONENTS

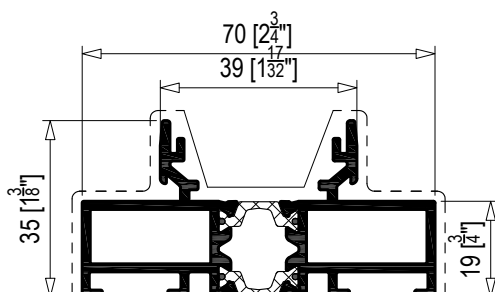
SHAPE	CODE	OUT. PERIMETER	EXPOSED SURFACE
e 	NC6532	183 [7.20"]	75 [2.95"]
i 	NC14258	287 [11.29"]	110 [4.33"]
	425300		



NC14296				I_x I_y	cm^4 $[\text{in}^4]$	S_x S_y	cm^3 $[\text{in}^3]$	USE
PERIMETER	260 [10.24]	mm in		0.554 [0.013]	0.507 [0.031]	Frame (Pocket Door)		
VISIBLE SURFACE	150 [5.91]	mm in		19.147 [0.46]	2.566 [0.157]			
	A		B		C		D	
	MU0541							

COMPONENTS

SHAPE	CODE	OUT. PERIMETER	EXPOSED SURFACE
e 	NC6561	113 [4.44"]	50 [1.96"]
i 	NC14267	188 [7.40"]	104 [4.09"]
	425300		

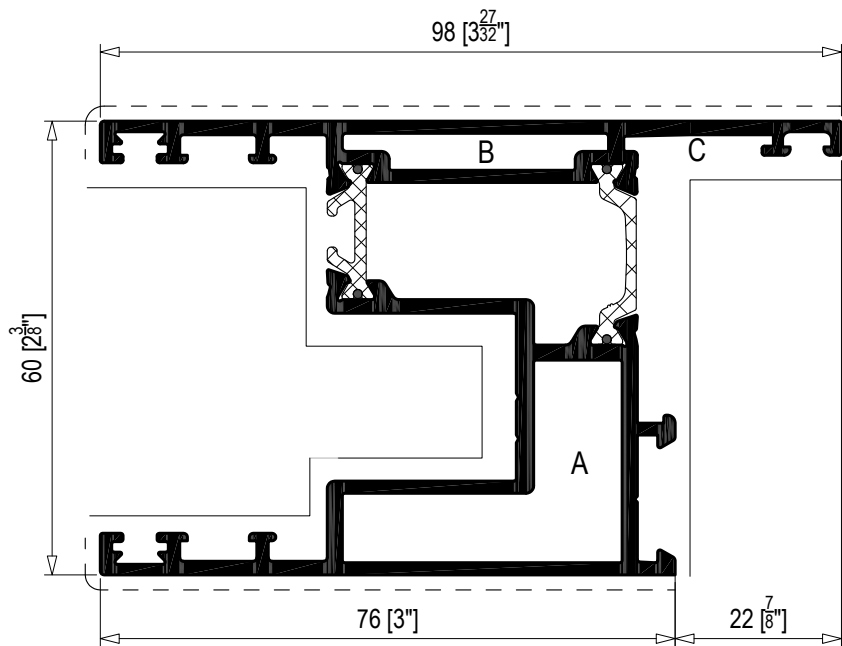


NC14297				I_x cm ⁴ I_y [in ⁴]	S_x cm ³ S_y [in ³]	USE	
PERIMETER	342 [13.46]	mm in		3.516 [0.084]	1.627 [0.099]	Frame Jamb (Pocket Door)	
VISIBLE SURFACE	150 [5.91]	mm in		19.121 [0.459]	5.463 [0.333]		

COMPONENTS

SHAPE	CODE	OUT. PERIMETER	EXPOSED SURFACE
e 	NC14280	200 [7.87"]	54 [2.12"]
	425300		

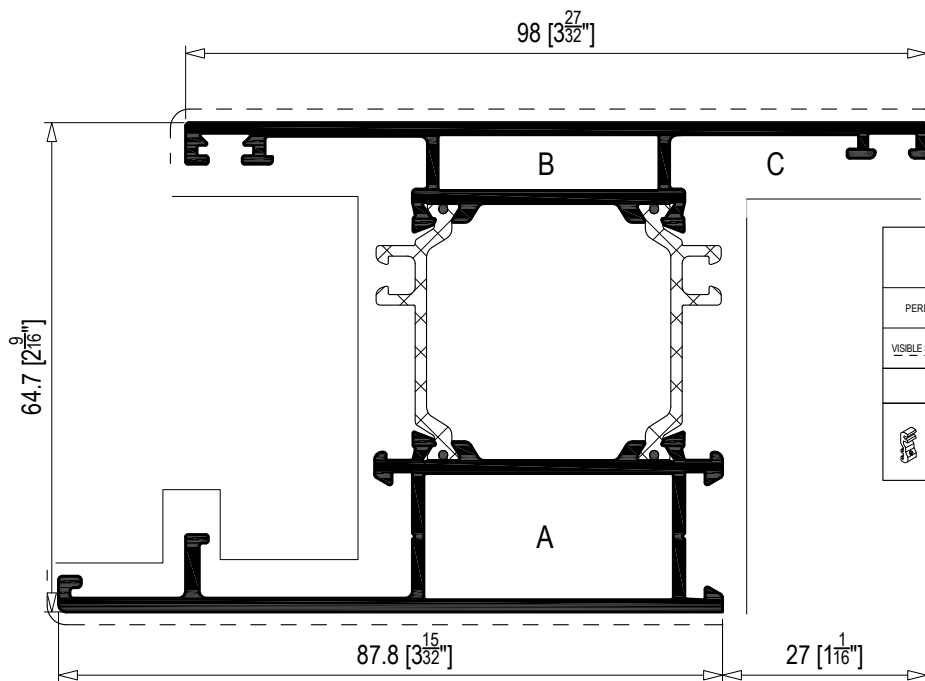
Scale 1:1.5



NC14251				I_x cm ⁴ I_y [in ⁴]	S_x cm ³ S_y [in ³]	USE	
PERIMETER	540 [21.26]	mm in		39.321 [0.945]	12.188 [0.744]	Sash	
VISIBLE SURFACE	198 [7.8]	mm in		38.821 [0.933]	7.658 [0.467]		
	A		B		C	D	
	MA0238 MA5550		MA0202 MA0205				
					MA0203		

COMPONENTS

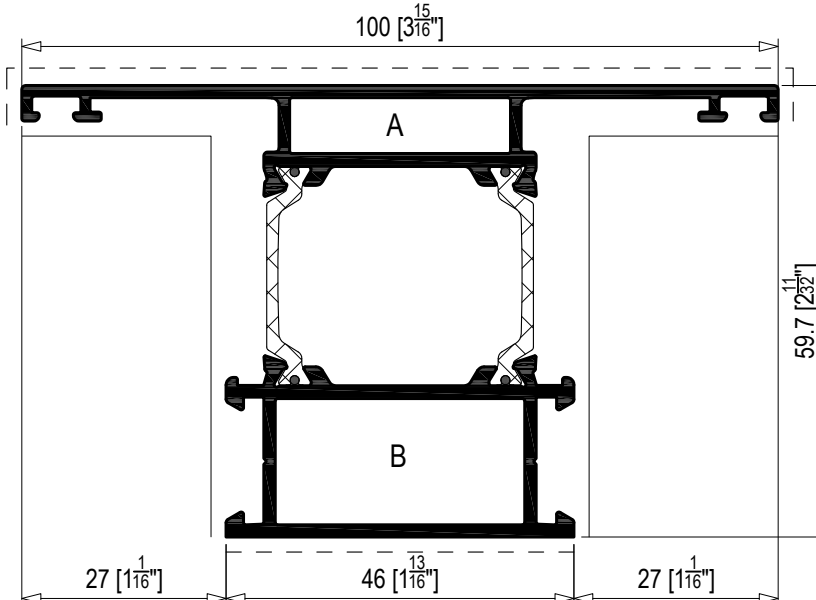
SHAPE	CODE	OUT. PERIMETER	EXPOSED SURFACE
	NC6536	286 [11.25"]	131 [5.15"]
	NC14252	351 [13.81"]	85 [3.34"]
	PA0113		
	PF0016		



NC14277				I_x cm ⁴ I_y [in ⁴]	S_x cm ³ S_y [in ³]	USE	
PERIMETER	533 [20.98]	mm in		45.245 [1.087]	13.723 [0.837]	Transom	
VISIBLE SURFACE	215 [8.46]	mm in		43.391 [1.042]	7.558 [0.461]		
	A		B		C	D	
	MA2845 MA5550		MA2844 MA2864		MA2810		

COMPONENTS

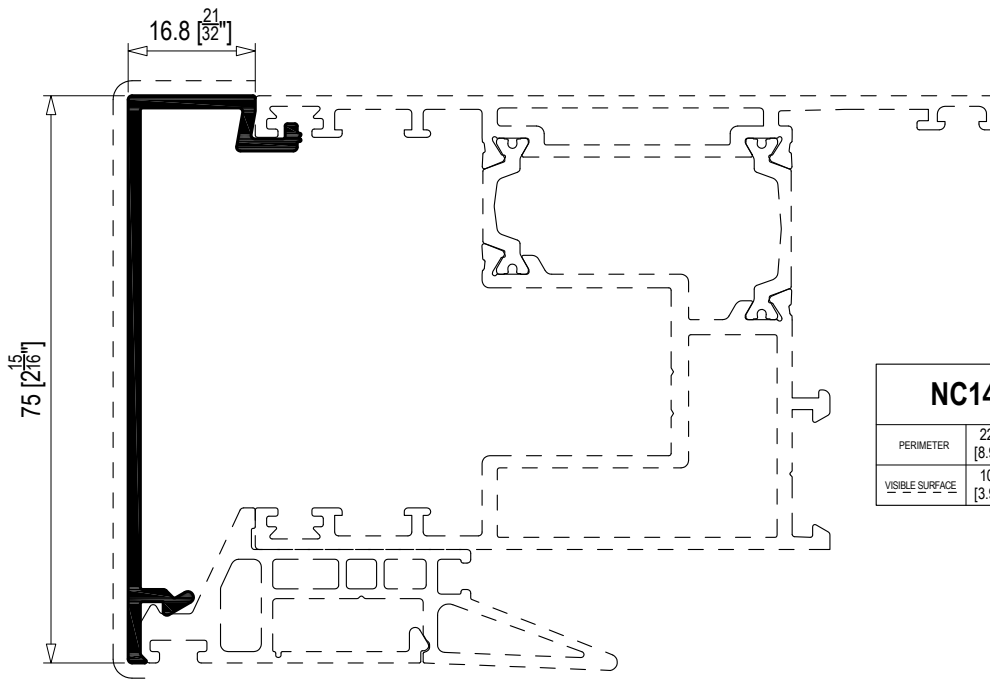
SHAPE	CODE	OUT. PERIMETER	EXPOSED SURFACE
	NC14271	292 [11.49"]	114 [4.48"]
	NC14272	297 [11.69"]	96 [3.77"]
	PA0064		



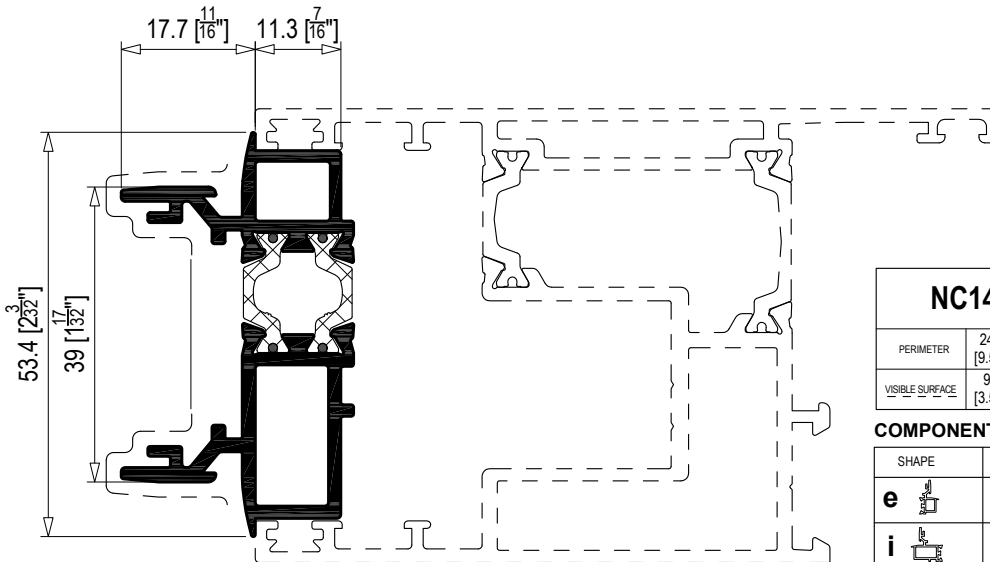
NC14278				I_x cm ⁴ I_y [in ⁴]	S_x cm ³ S_y [in ³]	USE	
PERIMETER	506 [19.92]	mm in		27.746 [0.667]	7.821 [0.477]	Glass Divider	
VISIBLE SURFACE	155 [6.1]	mm in		24.476 [0.588]	4.895 [0.299]		
	A		B		C	D	
	MA2844 (MA2864)		MA2845 (MA5550)				

COMPONENTS

SHAPE	CODE	OUT. PERIMETER	EXPOSED SURFACE
	NC13551	291 [11.45"]	109 [4.29"]
	NC13552	192 [7.87"]	46 [1.81"]
	PA0011		



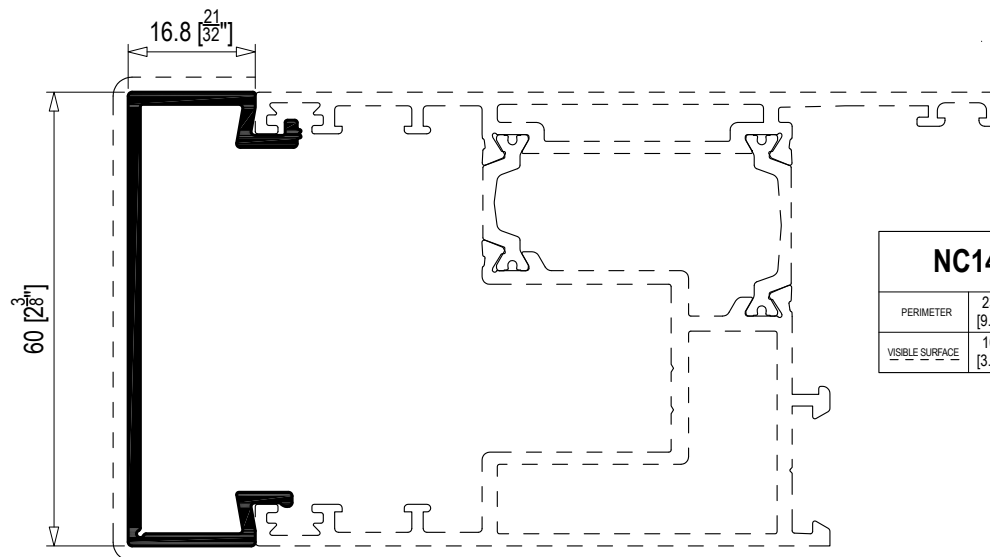
NC14257				I_x cm ⁴ I_y [in ⁴]	S_x cm ³ S_y [in ³]	USE
PERIMETER	227 [8.94]	mm in		11.581 [0.278]	2.611 [0.159]	Interlock profile
VISIBLE SURFACE	101 [3.98]	mm in		0.715 [0.017]	0.388 [0.024]	



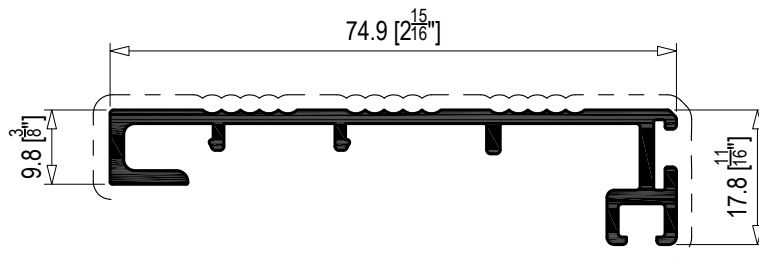
NC14286				I_x cm ⁴ I_y [in ⁴]	S_x cm ³ S_y [in ³]	USE
PERIMETER	242 [9.53]	mm in		2.017 [0.048]	1.082 [0.066]	Interlock profile
VISIBLE SURFACE	90 [3.54]	mm in		7.818 [0.188]	2.909 [0.178]	

COMPONENTS

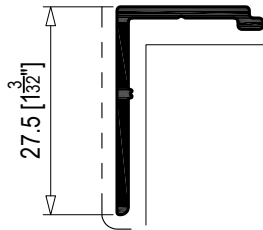
SHAPE	CODE	OUT. PERIMETER	EXPOSED SURFACE
e 	NC14284	132 [5.19"]	45 [1.77"]
i 	NC14290	157 [6.18"]	45 [1.77"]
	425300		



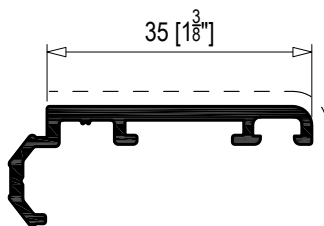
NC14291				I_x cm ⁴ I_y [in ⁴]	S_x cm ³ S_y [in ³]	USE
PERIMETER	234 [9.21]	mm in		9.422 [0.226]	3.056 [0.186]	Interlock profile
VISIBLE SURFACE	100 [3.94]	mm in		0.974 [0.023]	0.604 [0.037]	



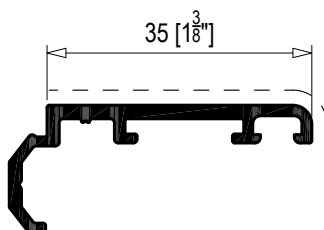
NC14263		J_X	W_X	USE
		cm^4	cm^3	
WEIGHT 0.608 kg/m	PERIMETER	J_Y	W_Y	Complementary profile
	277 mm	0.519	0.39	
	VISIBLE SURFACE 122 mm	15.875	3.891	



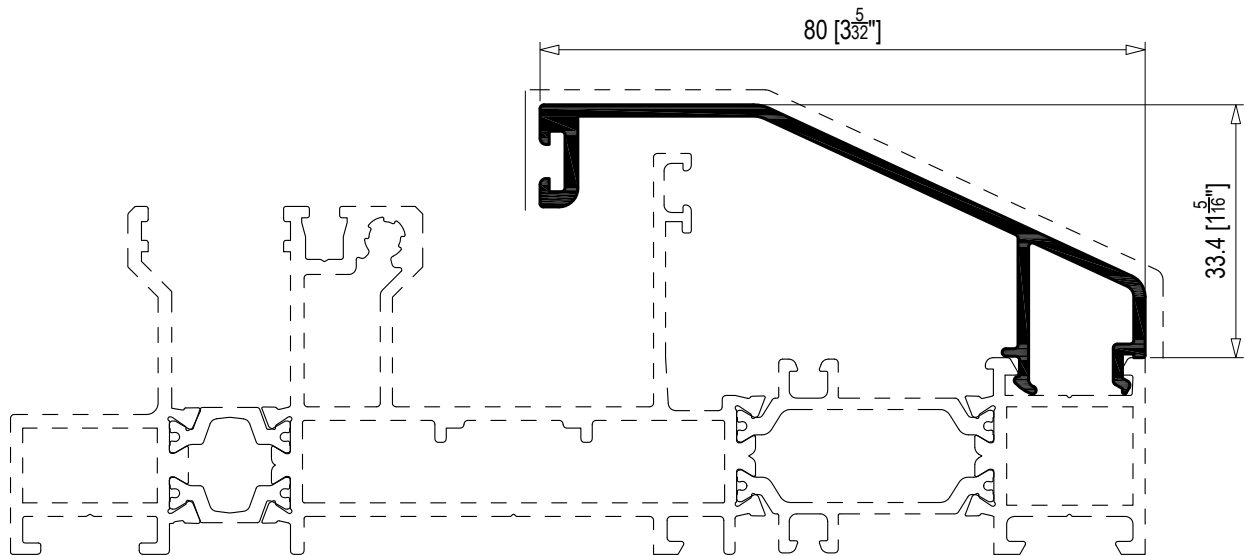
NC6588		J_X	W_X	USE
	PERIMETER	J_Y	W_Y	
WEIGHT 0.189 kg/m	95 mm	0.528	0.278	Drip
	VISIBLE SURFACE			
	35 mm	0.252	0.175	



NC13711		J_X	W_X	USE
	PERIMETER	cm^4	cm^3	
WEIGHT 0.284 kg/m	139 mm	0.158	0.126	Wall rabbet
	VISIBLE SURFACE			
	38 mm	1.642	0.738	

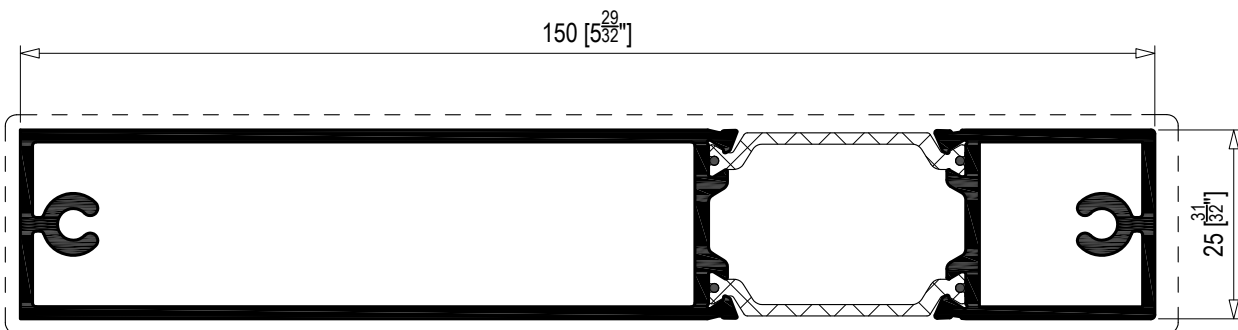
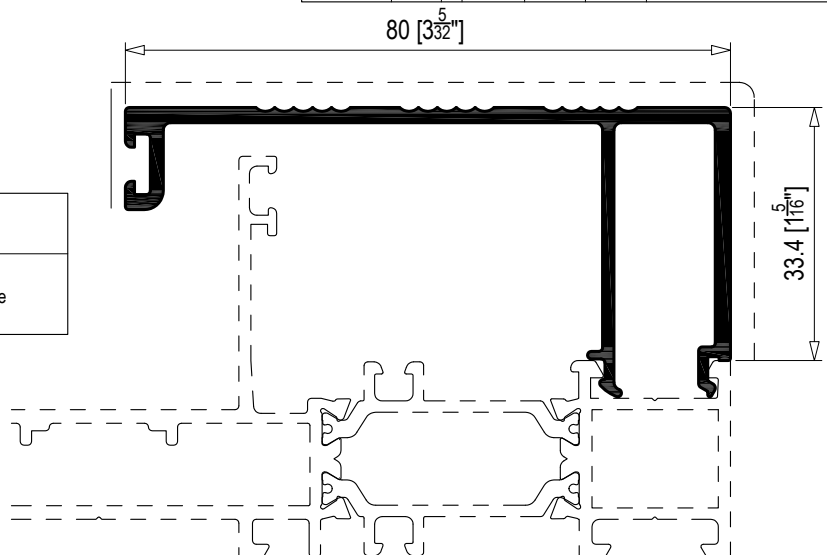


NC14274		J_X	W_X	USE
	PERIMETER	cm^4	cm^3	
WEIGHT 0.289 kg/m	141 mm	1.698	0.753	Wall rabbet
	 VISIBLE SURFACE 44 mm	0.195	0.144	



NC14264				I_x cm ⁴ I_y [in ⁴]	S_x cm ³ S_y [in ³]	USE
PERIMETER	286 [11.26]	mm in		2.859 [0.069]	1.156 [0.071]	Complementary profile
VISIBLE SURFACE	99 [3.9]	mm in		16.735 [0.402]	4.012 [0.245]	

NC14275				I_x cm ⁴ I_y [in ⁴]	S_x cm ³ S_y [in ³]	USE
PERIMETER	355 [13.98]	mm in		3.928 [0.094]	1.375 [0.084]	Complementary profile
VISIBLE SURFACE	117 [4.61]	mm in		24.273 [0.583]	4.935 [0.301]	

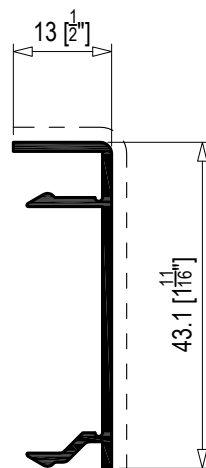
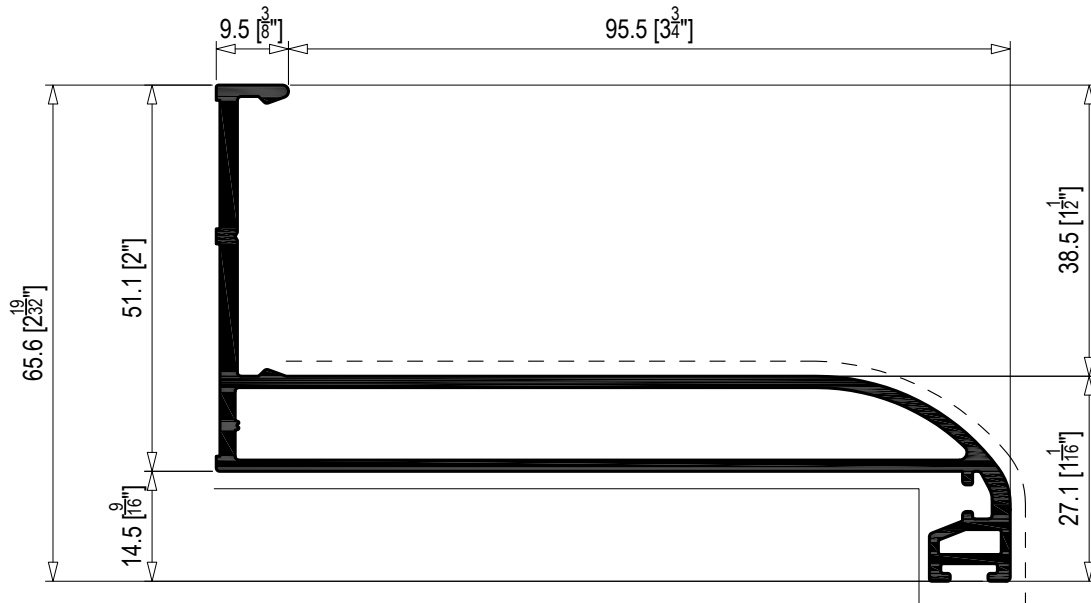


COMPONENTS

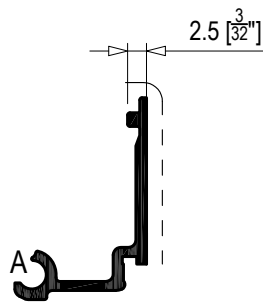
SHAPE	CODE	OUT. PERIMETER	EXPOSED SURFACE
 i	NC6568	128 [5.03"]	82 [3.22"]
 e	NC14269	258 [10.15"]	222 [8.74"]
 PA0037			

NC14265				I_x cm ⁴ I_y [in ⁴]	S_x cm ³ S_y [in ³]	USE
PERIMETER	350 [13.78]	mm in		6.153 [0.148]	4.925 [0.301]	Complementary profile
VISIBLE SURFACE	350 [13.78]	mm in		166.715 [4.005]	21.916 [1.337]	
	A		B	C	D	
	MU0541					

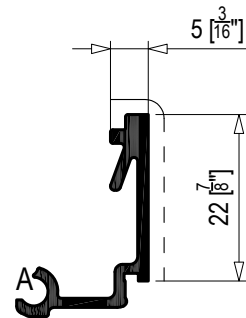
NC14298				I_x cm ⁴ I_y [in ⁴]	$S_{x_{cm^3}}$ $S_{y_{in^3}}$	USE
PERIMETER	374 [14.72]	mm in		11.033 [0.265]	2.682 [0.164]	Pocket Door Edge Cover
VISIBLE SURFACE	120 [4.72]	mm in		71.865 [1.727]	12.152 [0.742]	



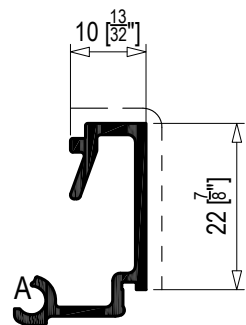
NC10086				I_x cm ⁴ I_y [in ⁴]	$S_{x_{cm^3}}$ $S_{y_{in^3}}$	USE
PERIMETER	154 [6.06]	mm in		2.061 [0.05]	0.869 [0.053]	Screw cover for NC14298
VISIBLE SURFACE	55 [2.17]	mm in		0.112 [0.003]	0.114 [0.007]	



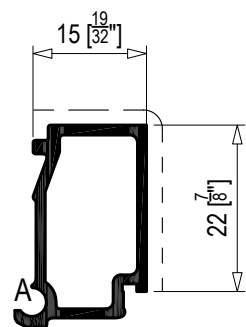
NC13707				$I_{X_{cm^4}}$ $I_{Y_{in^4}}$	$S_{X_{cm^3}}$ $S_{Y_{in^3}}$	USE	
PERIMETER	99 [3.9]	mm in		0.398 [0.01]	0.225 [0.014]	Glass Stop	
VISIBLE SURFACE	22 [0.87]	mm in		0.196 [0.005]	0.161 [0.01]		
	A			B		C	D
	MG153D or MA4564						



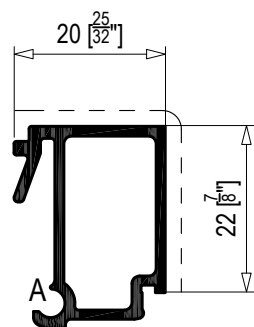
NC13581				$I_{X_{cm^4}}$ $I_{Y_{in^4}}$	$S_{X_{cm^3}}$ $S_{Y_{in^3}}$	USE	
PERIMETER	113 [4.45]	mm in		0.671 [0.016]	0.459 [0.028]	Glass Stop	
VISIBLE SURFACE	25 [0.98]	mm in		0.206 [0.005]	0.162 [0.01]		
	A			B		C	D
	MG153D or MA4564						



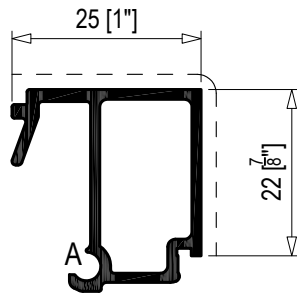
NC13582				$I_{X_{cm^4}}$ $I_{Y_{in^4}}$	$S_{X_{cm^3}}$ $S_{Y_{in^3}}$	USE	
PERIMETER	130 [5.12]	mm in		0.797 [0.019]	0.587 [0.036]	Glass Stop	
VISIBLE SURFACE	30 [1.18]	mm in		0.215 [0.005]	0.184 [0.011]		
	A			B		C	D
	MG153D or MA4564						



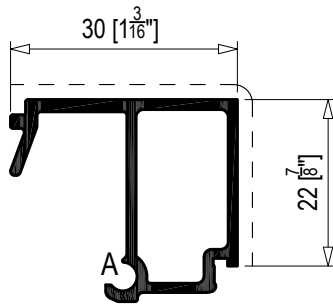
NC13583				$I_{X_{cm^4}}$ $I_{Y_{in^4}}$	$S_{X_{cm^3}}$ $S_{Y_{in^3}}$	USE	
PERIMETER	94 [3.7]	mm in		0.89 [0.021]	0.658 [0.04]	Glass Stop	
VISIBLE SURFACE	35 [1.38]	mm in		0.34 [0.008]	0.359 [0.022]		
	A			B		C	D
	MG153D o MA4564						



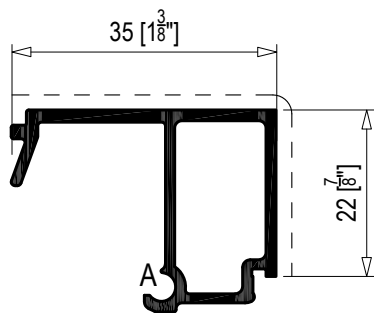
NC13584				$I_{X_{cm^4}}$ $I_{Y_{in^4}}$	$S_{X_{cm^3}}$ $S_{Y_{in^3}}$	USE	
PERIMETER	118 [4.65]	mm in		1.046 [0.025]	0.701 [0.043]	Glass Stop	
VISIBLE SURFACE	40 [1.57]	mm in		0.513 [0.012]	0.491 [0.03]		
	A			B		C	D
	MG153D or MA4564						



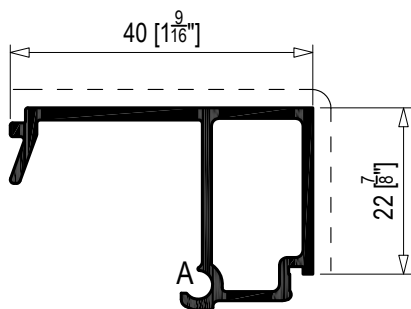
NC13585				I_x I_y	S_x S_y	USE	
PERIMETER	128 [5.04]	mm in		1.136 [0.027]	0.729 [0.044]	Glass Stop	
VISIBLE SURFACE	45 [1.77]	mm in		0.764 [0.018]	0.538 [0.033]		
	A			B		C	D
	MG153D or MA4564						



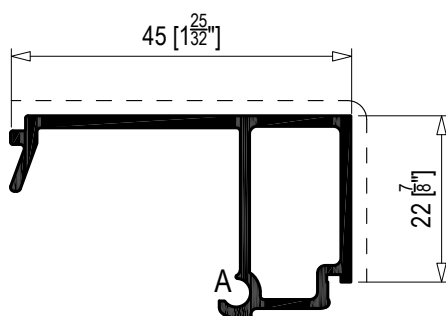
NC13586				I_x I_y	S_x S_y	USE	
PERIMETER	138 [5.43]	mm in		1.217 [0.029]	0.752 [0.046]	Glass Stop	
VISIBLE SURFACE	50 [1.97]	mm in		1.142 [0.027]	0.642 [0.039]		
	A			B		C	D
	MG153D or MA4564						



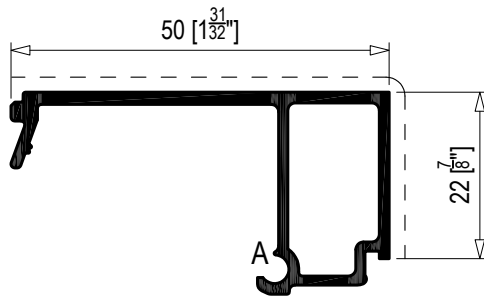
NC13587				I_x I_y	S_x S_y	USE	
PERIMETER	148 [5.83]	mm in		1.303 [0.031]	0.776 [0.047]	Glass Stop	
VISIBLE SURFACE	55 [2.17]	mm in		1.698 [0.041]	0.791 [0.048]		
	A			B		C	D
	MG153D or MA4564						



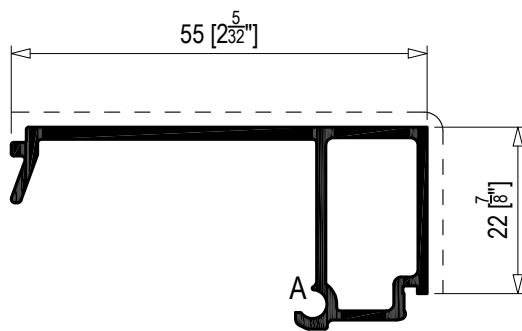
NC13588				I_x I_y	S_x S_y	USE	
PERIMETER	158 [6.22]	mm in		1.366 [0.033]	0.792 [0.048]	Glass Stop	
VISIBLE SURFACE	60 [2.36]	mm in		2.388 [0.057]	0.961 [0.059]		
	A			B		C	D
	MG153D or MA4564						



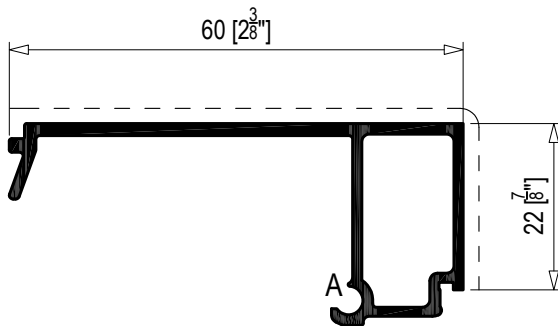
NC13589				I_x I_y	S_x S_y	USE	
PERIMETER	168 [6.61]	mm in		1.423 [0.034]	0.806 [0.049]	Glass Stop	
VISIBLE SURFACE	65 [2.56]	mm in		3.251 [0.078]	1.155 [0.07]		
	A			B		C	D
	MG153D o MA4564						



NC13590				I_x I_y	S_x S_y	USE	
PERIMETER	179 [7.05]	mm in		1.469 [0.035]	0.813 [0.05]	Glass Stop	
VISIBLE SURFACE	70 [2.76]	mm in		4.285 [0.103]	1.377 [0.084]		
	A			B		C	D
	MG153D or MA4564						



NC13591				I_x I_y	S_x S_y	USE	
PERIMETER	188 [7.4]	mm in		1.516 [0.036]	0.823 [0.05]	Glass Stop	
VISIBLE SURFACE	75 [2.95]	mm in		5.484 [0.132]	1.597 [0.097]		
	A			B		C	D
	MG153D or MA4564						

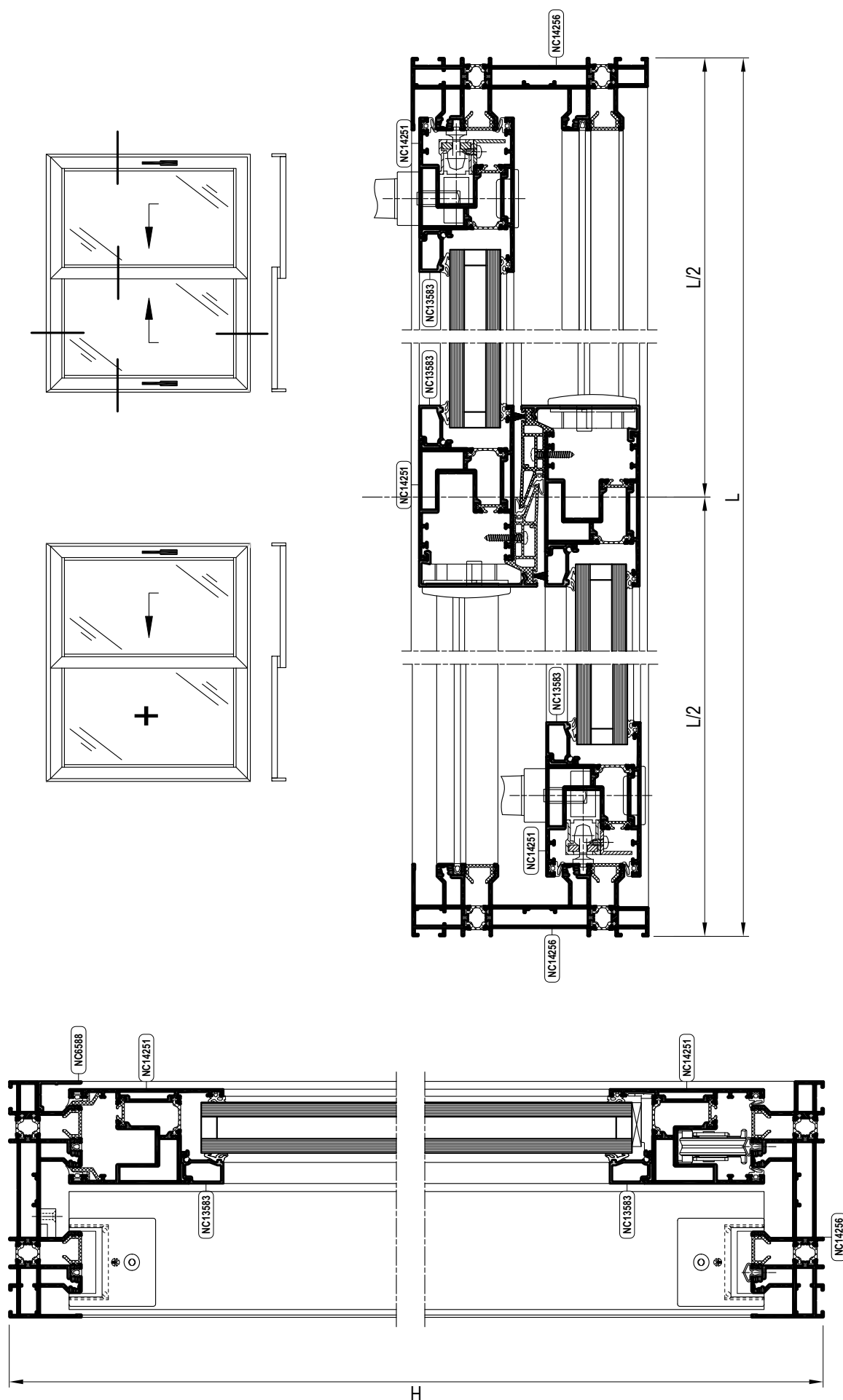


NC13592				I_x I_y	S_x S_y	USE	
PERIMETER	198 [7.8]	mm in		1.559 [0.037]	0.832 [0.051]	Glass Stop	
VISIBLE SURFACE	80 [3.15]	mm in		6.932 [0.167]	1.851 [0.113]		
	A			B		C	D
	MG153D or MA4564						

Order lists

Group C

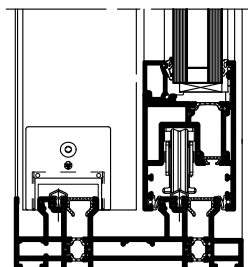
- Order lists and respective tables for the use of accessories and gaskets for the main typologies



Order lists
2 sliding sashes on 2 tracks
Frame 45°

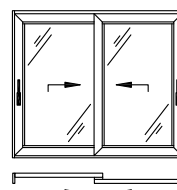
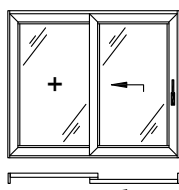
Order lists

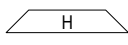
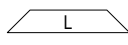
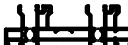
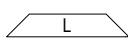
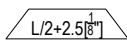
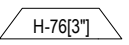
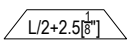
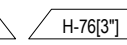
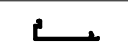
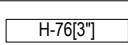
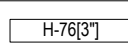
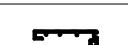
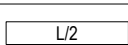
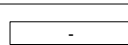
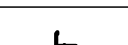
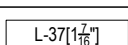
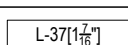
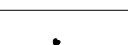
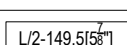
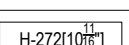
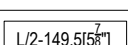
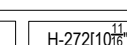
Frame 45°



For the correct dimensioning of the sashes refer to:
-Static employment limits
-Executive limits of the hardware

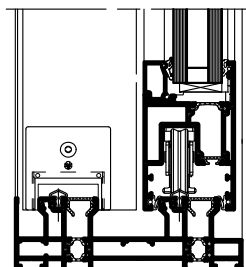
QUANTITY PER TYPOLOGY



CODE	PROFILES	DESCRIPTION	QUANTITY	CUTTING		QUANTITY	CUTTING		NOTES
NC14256		FRAME	2			2			
NC14256		FRAME	2			2			
NC14251		SASH	4+4			4+4			
NC14257		INTERLOCK PROFILE	2			2			
NC14263		COMPLEMENTARY PROFILE	1			-			Indicative dimensions
NC6588		DRIP	1			1			
-		GLASS STOP	4+4			4+4			
CODE	ACCESSORIES		QUANTITY			QUANTITY			NOTES
MA0170	WALL ADJUSTMENT		20-28			20-28			Acc. dimensions
MA0186	ANTI VIBRATION SPACER		6			6			
MA0200	TRACK GUIDE		1 (L-92[38 ⁵])			2 (L-92[38 ⁵])			
MA0202	SASH CORNER KEY		8			8			
MA0203	ALIGNMENT CORNER KEY		8			8			
MA0205	PIN 3[¹ / ₈ "]X17[⁵ / ₈ "]		16			16			
MA0206	SASH TOP MOULDED CORNER FOR MG067D		8			8			
MA0207	SASH BOTTOM MOULDED CORNER (PAIR)		4			4			
MA0210	WATER DRAINAGE BUSH		2-7			2-7			Acc. dimensions
MA0211	WATER DRAINAGE CAP		1			1			
MA0212	SASH EXTERIOR WEATHERSEAL CAPS		2			2			
MA0217	SASH TOP CENTERING DEVICE		4-10			8-20			Acc. dimensions
MA0223	SUPPORT FOR FIXED SASH		5			-			
MA0225	PLATE FOR MA0223		1			-			
MA0226	FASTENING WASHER		20-28			20-28			Acc. dimensions
MA0237	SCREW 4.8[¹ / ₄ "]X10[⁵ / ₈ "] RH WASHER HEAD		4			4			
MA0238	CORNER KEY		8			8			
MA0243	SASH INTERIOR WEATHERSEAL CAPS		1			1			
MA0247	FRAME BOTTOM EATHERSEAL CAPS		1			1			
MA0248	FRAME TOP WEATHERSEAL CAPS		1			1			
MA0290	GLASS SHIMMING BASE		16			16			
MA0293	CORNER KEY		12			12			
MA4564	GLASS STOP GASKET IN PIECES (30mm[1 ¹ / ₈ "])		24-40			24-40			Acc. dimensions
MA5550	PIN		16			16			
MA6337	PAN HEAD SCREW 4.2[¹ / ₈ "]X25[1"]		6-24			6-24			Acc. dimensions
MA7200	PIN SCREW		24			24			
MA9144	WATER DRAINAGE VALVE		1			1			
MA9160	WATER DRAINAGE VALVE		2			2			
MA9174	BUFFER STOP WITH PAN HEAD SCREW 4.2[¹ / ₈ "]X22[¹ / ₂ "]		2			4			
MU0572	PAN HEAD SCREW 4.2[¹ / ₈ "]X9.5[³ / ₈ "] (STANDARD configuration)		3-12			6-24			Acc. dimensions
MU0706	SELF-TAPPING PAN HEAD SCREW 4.8[¹ / ₄ "]X16[⁵ / ₈ "]		15			-			

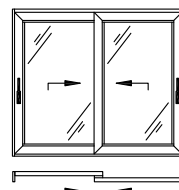
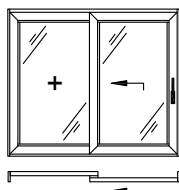
Order lists

Frame 45°



For the correct dimensioning of the sashes refer to:
 -Static employment limits
 -Executive limits of the hardware

QUANTITY PER TYPOLOGY

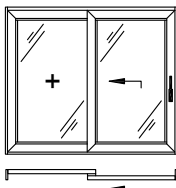
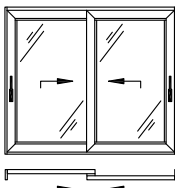


CODE	GASKETS	QUANTITY	CUTTING	QUANTITY	CUTTING	NOTES
STANDARD configuration						
MG042S	BRUSH GASKET	1 + 2	L/2---- H-76 [3"]	2	H-76 [3"]	
MG060P	SPACER FOR INTERLOCK PROFILE	2	H-76 [3"]	2	H-76 [3"]	
MG063D	STROKE END GASKET	2	H-76 [3"]	2	H-76 [3"]	
MG066D	SASH TOP WEATHERSEAL GASKET	2	L	2	L	Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	6	2L+4H	6	2L+4H	Indicative dimensions
MG068D	TRACK COVER	6	2L+4H	6	2L+4H	Indicative dimensions
MG187P	TRACK COVER	8	4L+4H	8	4L+4H	Indicative dimensions
MG386D	EXTERNAL GLAZING GASKET	6	2L+4H	6	2L+4H	Indicative dimensions
---	INTERNAL GLAZING GASKET	6	2L+4H	6	2L+4H	Indicative dimensions
MG671D	SPACER GASKET	1	L/2	-	-	If necessary
MG954P	SIDE FINISHING GASKET SASH	1	H-76 [3"]	2	H-76 [3"]	
PLUS configuration						
MG031T	EXTERNAL GLAZING GASKET	6	2L+4H	6	2L+4H	Indicative dimensions
---	INTERNAL GLAZING GASKET	6	2L+4H	6	2L+4H	Indicative dimensions
MG042S	BRUSH GASKET	1 + 2	L/2---- H-76 [3"]	2	H-76 [3"]	
MG060P	SPACER FOR INTERLOCK PROFILE	2	H-76 [3"]	2	H-76 [3"]	
MG063D	SPACER FOR INTERLOCK PROFILE	2	H-76 [3"]	2	H-76 [3"]	
MG066D	SASH TOP WEATHERSEAL GASKET	2	L	2	L	Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	6	2L+4H	6	2L+4H	Indicative dimensions
MG068D	TRACK COVER	6	2L+4H	6	2L+4H	Indicative dimensions
MG187P	TRACK COVER	8	4L+4H	8	4L+4H	Indicative dimensions
MG188E	INSULATING GASKET	5	1L+4H	5	1L+4H	Indicative dimensions
MG190PS	UNDER-GLASS INSULATING GASKET	6	2L+4H	6	2L+4H	Indicative dimensions
MG671D	SPACER GASKET	1	L/2	-	-	If necessary
	GLASS	2	L/2-165.5 ¹ _[62"] ---- H-244 ⁵ _[98"]	2	L/2-165.5 ¹ _[62"] ---- H-244 ⁵ _[98"]	

Order lists

Frame 45°

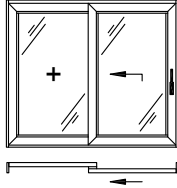
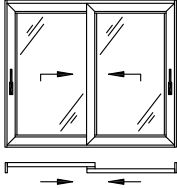
MGU hardware

		QUANTITY PER TYPOLOGY	
			
CODE	HANDLES		
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	1	2
MA2984	KIT SCREWS + SQUARE SPINDLE	1	2
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	1	2
MA2984	KIT SCREWS + SQUARE SPINDLE	1	2
MS3080	HALF CYLINDER	1	2
INSIDE / OUTSIDE: HANDLE + CYLINDER			
MA2988	DOUBLE PULL HANDLE HS ESSENCE	1	2
MA2985	KIT SCREWS + SQUARE SPINDLE	1	2
MS3076	CYLINDER	1	2
CODE	HARDWARE		
MA0183	LOCK KEEPER	2	H ≤ 1855 mm[6'1"] 4
		3	H ≥ 1856 mm[6'1"] 6
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	1	optional 2
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0215	LIFT-AND-SLIDE BASE SET 300 kg [660 lb]	1	2
MA0227	EXTENSION KIT FOR LIFT-AND-SLIDE LOCK WITH KEEPER	1 3000mm[9'11 1/8"] ≤ H ≤ 3230mm[10'7 1/8"] 2	
MA9014	ANTI-SHOCK CAP	1	1
MA9031	COVER	1 2730mm[8'11 1/2"] ≤ H ≤ 3000mm[9'10 1/8"] 2	
MA9032	VENTILATION KEEPER	1	2
MA9051	LOCK E=47,5[1 7/8"] H SASH= 855mm[2'9 5/8"] -1275mm[4'2 1/4"]	1	2
MA9052	LOCK E=47,5[1 7/8"] H SASH= 1276mm[4'2 1/4"] -1855mm[6'1"]		
MA9053	LOCK E=47,5[1 7/8"] H SASH= 1856mm[6'1"] -2355mm[7'8 3/4"]		
MA9054	LOCK E=47,5[1 7/8"] H SASH= 2356mm[7'8 3/4"] -2755mm[9'0 3/4"]		
MA9055	CONNECTING BAR SASH L=720mm[2'4 3/8"]-1600mm[5'3"]	1	2
MA9056	CONNECTING BAR SASH L=1601[5'3"]-1850mm[6'0 7/8"]		
MA9057	CONNECTING BAR SASH L=1851mm[6'0 7/8"]-2350[7'8 1/2"]		
MA9058	CONNECTING BAR SASH L=2350mm[7'8 1/2"]-3300mm[10'9 7/8"]		
MA9079	LOCK SPRING FOR SASHES OVER 200 kg [440lb]	1	2
MA9121	ANTI-LIFTING BLOCK	1	2
MU0496	SELF TAPPING SCREW 3.5[1 1/8"]X20[3 1/4"]	2	4
LIFTING-SLIDING SOLUTION FROM 300 kg [660lb] TO 400 kg [880lb]			
MA9078	KIT CARRIAGES LOAD CAPACITY 400 kg [880 lbs] (PAIR)	1	2

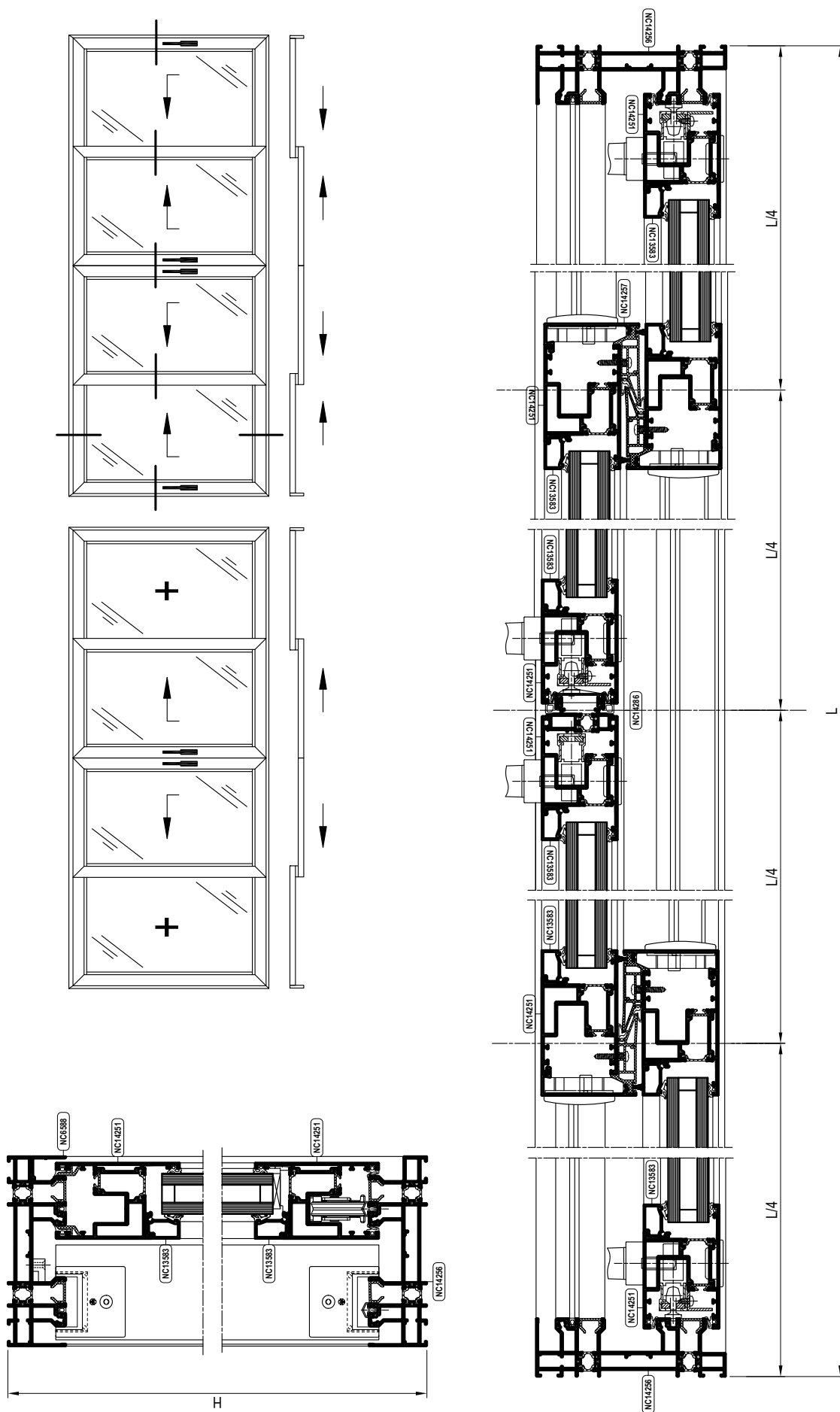
Order lists

Frame 45°

MHA hardware

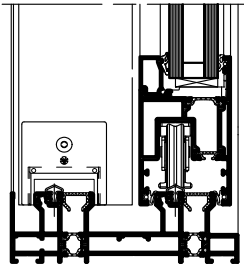
		QUANTITY PER TYPOLOGY	
			
CODE	HANDLES		
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	1	2
MA2984	KIT SCREWS + SQUARE SPINDLE	1	2
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	1	2
MA2984	KIT SCREWS + SQUARE SPINDLE	1	2
MS3080	HALF CYLINDER	1	2
INSIDE / OUTSIDE: HANDLE + CYLINDER			
MA2988	DOUBLE PULL HANDLE HS ESSENCE	1	2
MA2985	KIT SCREWS + SQUARE SPINDLE	1	2
MS3076	CYLINDER	1	2
CODE	HARDWARE		
MA0154	SHIM FOR EXTENSION MA0155	1	2
MA0155	EXTENSION FOR LOCK COMPLETE WITH LOCKING POINTS	1	2
MA0190	KIT HS SOFT LIFT (CANNOT BE USED WITH LOCK MA0194)	1	optional 2
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	1	optional 2
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0198	LOCK KEEPER	2	$H \leq 1800 \text{ mm} [70\frac{7}{8}"]$ 4
		3	$H \geq 1801 \text{ mm} [70\frac{7}{8}"]$ 6
		1	$2700.1[106\frac{5}{16}"] \leq H \leq 3300 \text{ mm} [129\frac{15}{16}"]$ 2
MA0193	LIFT-AND-SLIDE BASE SET 330 kg [727 lb]	1	2
MA9117	ANTI-SHOCK CAP	1	1
MA9118	VENTILATION KEEPER	1	2
MA0194	LOCK H SASH= 1200mm[3'11 $\frac{1}{4}$ "]-1800mm[5'10 $\frac{3}{8}$ "]	1	2
MA0195	LOCK H SASH= 1801mm[5'10 $\frac{7}{8}$ "]-2100mm[5'10 $\frac{5}{8}$ "]		
MA0196	LOCK H SASH= 2101mm[5'10 $\frac{3}{8}$ "]-2400mm[7'10 $\frac{1}{2}$ "]		
MA0197	LOCK H SASH= 2401[7'10 $\frac{1}{2}$ "]-2700mm[8'10 $\frac{1}{4}$ "]		
MA9105	CONNECTING BAR SASH L=720mm[2'4 $\frac{3}{8}$ "]-1500mm[4'11"]	1	2
MA9106	CONNECTING BAR SASH L=1501mm[4'11"]-2000mm[6'6 $\frac{3}{4}$ "]		
MA9107	CONNECTING BAR SASH L=2001mm[6'6 $\frac{3}{4}$ "]-2500mm[8'2 $\frac{3}{8}$ "]		
MA9108	CONNECTING BAR SASH L=2501mm[8'2 $\frac{3}{8}$ "]-3265mm[10'8 $\frac{1}{2}$ "]		
MA9121	ANTI-LIFTING BLOCK	1	2
MA0185	LATCH FOR LOCK MA0194	2	4
	LATCH FOR LOCK MA0195	3	6
	LATCH FOR LOCK MA0196	3	6
	LATCH FOR LOCK MA0197	3	6
	LATCH FOR EXTENSION MA0155	1	$2700.1[106\frac{5}{16}"] \leq H \leq 3300 \text{ mm} [129\frac{15}{16}"]$ 2
MU0496	SCREW FH 3.5[$\frac{1}{8}$ "]X20[$\frac{3}{4}$ "]	2	4
MA0182	VENTILATION LATCH	1	if necessary 2
LIFTING-SLIDING SOLUTION FROM 330 kg [727 lbs] TO 440 kg [970 lbs]			
MA0172	KIT CARRIAGES LOAD CAPACITY 440 kg [970 lbs] (PAIR)	1	2

Order lists
4 sashes on 2 tracks
Frame 45°



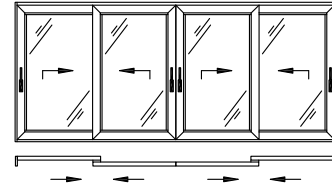
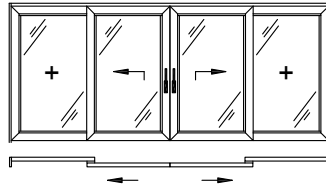
Order lists

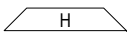
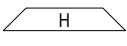
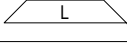
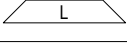
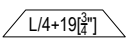
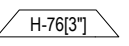
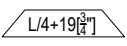
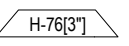
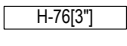
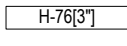
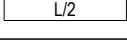
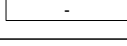
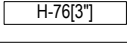
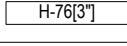
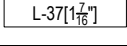
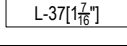
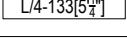
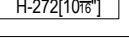
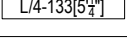
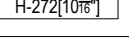
Frame 45°



For the correct dimensioning of the sashes refer to:
-Static employment limits
-Executive limits of the hardware

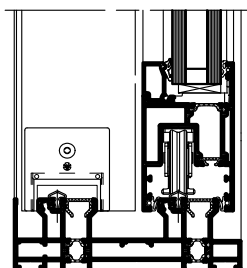
QUANTITY PER TYPOLOGY



CODE	PROFILES	DESCRIPTION	QUANTITY	CUTTING	QUANTITY	CUTTING	NOTES
NC14256		FRAME	2		2		
NC14256		FRAME	2		2		
NC14251		SASH	8+8	 	8+8	 	
NC14257		INTERLOCK PROFILE	4		4		
NC14263		COMPLEMENTARY PROFILE	1		-		Indicative dimensions
NC14286		INTERLOCK PROFILE	1		1		
NC6588		DRIP	1		1		
-		GLASS STOP	8+8	 	8+8	 	
CODE	ACCESSORIES		QUANTITY		QUANTITY		NOTES
MA0170	WALL ADJUSTMENT		20-28		20-28		Acc. dimensions
MA0186	ANTI VIBRATION SPACER		12		12		
MA0187	KIT CAPS FOR INTERLOCK PROFILE		1		1		
MA0200	TRACK GUIDE		1 (L-92[3 $\frac{5}{8}$ "])		2 (L-92[3 $\frac{5}{8}$ "])		
MA0202	SASH CORNER KEY		16		16		
MA0203	ALIGNMENT CORNER KEY		16		16		
MA0205	PIN 3[$\frac{1}{8}$ "]X17[$\frac{5}{8}$ "]		32		32		
MA0206	SASH TOP MOULDED CORNER FOR MG067D		16		16		
MA0207	SASH BOTTOM MOULDED CORNER (PAIR)		8		8		
MA0210	WATER DRAINAGE BUSH		4-14		4-14		Acc. dimensions
MA0211	WATER DRAINAGE CAP		1		1		
MA0212	SASH EXTERIOR WEATHERSEAL CAPS		4		4		
MA0217	SASH TOP CENTERING DEVICE		8-20		16-40		Acc. dimensions
MA0223	SUPPORT FOR FIXED SASH		10		-		
MA0225	PLATE FOR MA0223		2		-		
MA0226	FASTENING WASHER		20-28		20-28		Acc. dimensions
MA0229	ANTI-SHOCK CAP		4		4		
MA0237	SCREW 4.8[$\frac{1}{4}$ "]X10[$\frac{3}{8}$ "] RH WASHER HEAD		12		12		
MA0238	CORNER KEY		16		16		
MA0243	SASH INTERIOR WEATHERSEAL CAPS		2		2		
MA0247	FRAME BOTTOM EATHERSEAL CAPS		3		3		
MA0248	FRAME TOP WEATHERSEAL CAPS		3		3		
MA0290	GLASS SHIMMING BASE		32		32		
MA0293	CORNER KEY		12		12		
MA4564	GLASS STOP GASKET IN PIECES (30mm[1 $\frac{1}{8}$ "])		48-80		48-80		Acc. dimensions
MA5550	PIN		32		32		
MA6337	PAN HEAD SCREW 4.2[$\frac{1}{8}$ "]X25[1"]		12-48		12-48		Acc. dimensions
MA7200	PIN SCREW		24		24		
MA9144	WATER DRAINAGE VALVE		1		1		
MA9160	WATER DRAINAGE VALVE		4		4		
MA9174	BUFFER STOP WITH PAN HEAD SCREW 4.2[$\frac{1}{8}$ "]X22[$\frac{1}{8}$ "]		-		4		
MU0572	PAN HEAD SCREW 4.2[$\frac{1}{8}$ "]X9.5[$\frac{3}{8}$ "] (STANDARD configuration)		3-12		12-36		Acc. dimensions
MU0706	SELF-TAPPING PAN HEAD SCREW 4.8[$\frac{1}{4}$ "]X16[$\frac{5}{8}$ "]		30		-		

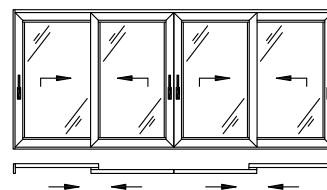
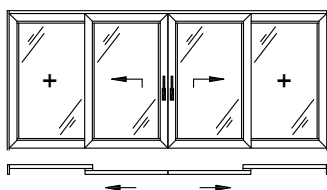
Order lists

Frame 45°



For the correct dimensioning of the sashes refer to:
 -Static employment limits
 -Executive limits of the hardware

QUANTITY PER TYPOLOGY

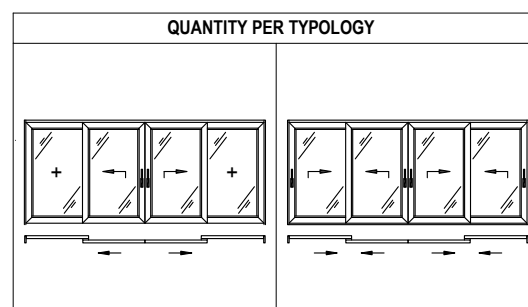


CODE	GASKETS	QUANTITY	CUTTING	QUANTITY	CUTTING	NOTES
STANDARD configuration						
MG040D	FINISHING GASKET	2	H-76 [3"]	2	H-76 [3"]	
MG042S	BRUSH GASKET	1 + 4	L/2 ---- H-76 [3"]	4	H-76 [3"]	
MG060P	SPACER FOR INTERLOCK PROFILE	4	H-76 [3"]	4	H-76 [3"]	
MG061P	COVER	1	H-76 [3"]	1	H-76 [3"]	
MG063D	STROKE END GASKET	4	H-76 [3"]	4	H-76 [3"]	
MG066D	SASH TOP WEATHERSEAL GASKET	2	L	2	L	Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	8	2L+6H	8	2L+6H	Indicative dimensions
MG068D	TRACK COVER	6	2L+4H	6	2L+4H	Indicative dimensions
MG187P	TRACK COVER	8	4L+4H	8	4L+4H	Indicative dimensions
MG386D	EXTERNAL GLAZING GASKET	10	2L+8H	10	2L+8H	Indicative dimensions
---	INTERNAL GLAZING GASKET	10	2L+8H	10	2L+8H	Indicative dimensions
MG671D	SPACER GASKET	1	L/2	-	-	Indicative dimensions
MG954P	SIDE FINISHING GASKET SASH	1	H-76 [3"]	3	H-76 [3"]	
PLUS configuration						
MG031T	EXTERNAL GLAZING GASKET	10	2L+8H	10	2L+8H	Indicative dimensions
---	INTERNAL GLAZING GASKET	10	2L+8H	10	2L+8H	Indicative dimensions
MG040D	STROKE END GASKET	2	H-76 [3"]	2	H-76 [3"]	
MG042S	BRUSH GASKET	1 + 4	L/2 ---- H-76 [3"]	4	H-76 [3"]	
MG060P	SPACER FOR INTERLOCK PROFILE	4	H-76 [3"]	4	H-76 [3"]	
MG061P	COVER	1	H-76 [3"]	1	H-76 [3"]	
MG063D	STROKE END GASKET	4	H-76 [3"]	4	H-76 [3"]	
MG066D	SASH TOP WEATHERSEAL GASKET	2	L	2	L	Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	8	2L+6H	8	2L+6H	Indicative dimensions
MG068D	TRACK COVER	6	2L+4H	6	2L+4H	Indicative dimensions
MG187P	TRACK COVER	8	4L+4H	8	4L+4H	Indicative dimensions
MG188E	INSULATING GASKET	9	1L+8H	9	1L+8H	Indicative dimensions
MG190PS	UNDER-GLASS INSULATING GASKET	10	2L+8H	10	2L+8H	Indicative dimensions
MG671D	SPACER GASKET	1	L/2	-	-	If necessary
	GLASS	4	L/4-149 [58"] ---- H-244 [98"]	4	L/4-149 [58"] ---- H-244 [98"]	

Order lists

Frame 45°

MGU hardware

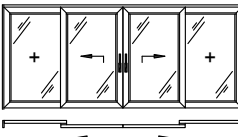
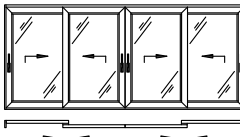


CODE	HANDLES		
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	2	4
MA2984	KIT SCREWS + SQUARE SPINDLE	2	4
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	2	4
MA2984	KIT SCREWS + SQUARE SPINDLE	2	4
MS3080	HALF CYLINDER	2	4
INSIDE / OUTSIDE: HANDLE + CYLINDER			
MA2988	DOUBLE PULL HANDLE HS ESSENCE	2	4
MA2985	KIT SCREWS + SQUARE SPINDLE	2	4
MS3076	CYLINDER	2	4
CODE	HARDWARE		
MA0183	LOCK KEEPER	2	H ≤ 1855 mm[6'1"] 6
		3	H ≥ 1856 mm[6'1"] 9
MA0188	KEEPER SUPPORT	2	H ≤ 1855 mm[6'1"] 2
		3	H ≥ 1856 mm[6'1"] 3
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	2	optional 4
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0215	LIFT-AND-SLIDE BASE SET 300 kg [660 lb]	2	4
MA0227	EXTENSION KIT FOR LIFT-AND-SLIDE LOCK WITH KEEPER	1	3
MA0298	KEEPER FASTENER	2	H ≤ 1855 mm[6'1"] 2
		3	H ≥ 1856 mm[6'1"] 3
MA9014	ANTI-SHOCK CAP	2	2
MA9031	COVER	1	2730mm[8'11½"]≤H≤3000mm[9'1⅞"] 3
MA9032	VENTILATION KEEPER	1	3
MA9051	LOCK E=47,5[1⅞"] H SASH= 855mm[2'9⅝"] -1275mm[4'2¼"]	2	4
MA9052	LOCK E=47,5[1⅞"] H SASH= 1276mm[4'2¼"] -1855mm[6'1"]		
MA9053	LOCK E=47,5[1⅞"] H SASH= 1856mm[6'1"] -2355mm[7'8¾"]		
MA9054	LOCK E=47,5[1⅞"] H SASH= 2356mm[7'8¾"] -2755mm[7'8¾"]		
MA9055	CONNECTING BAR SASH L=720mm[2'4⅞"]-1600mm[5'3"]	2	4
MA9056	CONNECTING BAR SASH L=1601[5'3"]-1850mm[6⅞"]		
MA9057	CONNECTING BAR SASH L=1851mm[6⅞"]-2350[7'8½"]		
MA9058	CONNECTING BAR SASH L=2350mm[7'8½"]-3300mm[10'9⅞"]		
MA9079	LOCK SPRING FOR SASHES OVER 200 kg [440lb]	2	4
MA9121	ANTI-LIFTING BLOCK	2	4
MU0496	SELF TAPPING SCREW 3.5[⅜"]X20[¾"]	4	8
LIFTING-SLIDING SOLUTION FROM 300 kg [660lb] TO 400 kg [880lb]			
MA9078	KIT CARRIAGES LOAD CAPACITY 400 kg [880 lbs] (PAIR)	2	4

Order lists

Frame 45°

MHA hardware

QUANTITY PER TYPOLOGY	
	

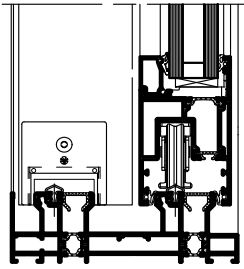
CODE	HANDLES		
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	2	4
MA2984	KIT SCREWS + SQUARE SPINDLE	2	4
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	2	4
MA2984	KIT SCREWS + SQUARE SPINDLE	2	4
MS3080	HALF CYLINDER	2	4
INSIDE / OUTSIDE: HANDLE + CYLINDER			
MA2988	DOUBLE PULL HANDLE HS ESSENCE	2	4
MA2985	KIT SCREWS + SQUARE SPINDLE	2	4
MS3076	CYLINDER	2	4
CODE	HARDWARE		
MA0154	SHIM FOR EXTENSION MA0155		
MA0155	EXTENSION FOR LOCK COMPLETE WITH LOCKING POINTS		
MA0190	KIT HS SOFT LIFT (CANNOT BE USED WITH LOCK MA0194)	2	optional 4
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	2	optional 4
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0198	LOCK KEEPER	2	H ≤ 1800 mm [70 ⁷ / ₈ "] 6
		3	H ≥ 1801 mm [70 ⁷ / ₈ "] 9
		1	2700.1[106 ⁵ / ₈ "] ≤ H ≤ 3300 mm [129 ¹⁵ / ₁₆ "] 3
MA0193	LIFT-AND-SLIDE BASE KIT 330 kg [727 lb]	2	4
MA0298	KEEPER FASTENER PAIR	2	H ≤ 1800 mm [70 ⁷ / ₈ "] 2
		3	H ≥ 1800 mm [70 ⁷ / ₈ "] 3
		1	2700.1[106 ⁵ / ₈ "] ≤ H ≤ 3300 mm [129 ¹⁵ / ₁₆ "] 3
MA9117	ANTI-SHOCK CAP	2	2
MA9118	VENTILATION KEEPER	1	3
MA0194	LOCK H SASH= 1200mm[3'1 ¹ / ₄ "]-1800mm[5'10 ⁷ / ₈ "]	2	4
MA0195	LOCK H SASH= 1801mm[5'10 ⁷ / ₈ "]-2100mm[5'10 ⁵ / ₈ "]		
MA0196	LOCK H SASH= 2101mm[5'10 ⁵ / ₈ "]-2400mm[7'10 ¹ / ₂ "]		
MA0197	LOCK H SASH= 2401[7'10 ¹ / ₂ "]-2700mm[8'10 ¹ / ₄ "]		
MA9105	CONNECTING BAR SASH L=720mm[2'4 ³ / ₈ "]-1500mm[4'11"]	2	4
MA9106	CONNECTING BAR SASH L=1501mm[4'11"]-2000mm[6'6 ³ / ₄ "]		
MA9107	CONNECTING BAR SASH L=2001mm[6' 6 ³ / ₈ "]-2500mm[8'2 ³ / ₈ "]		
MA9108	CONNECTING BAR SASH L=2501mm[8'2 ³ / ₈ "]-3265mm[10'8 ¹ / ₂ "]		
MA9121	ANTI-LIFTING BLOCK	2	4
MA0185	LATCH FOR LOCK MA0194	2	6
	LATCH FOR LOCK MA0195	3	9
	LATCH FOR LOCK MA0196	3	9
	LATCH FOR LOCK MA0197	3	9
	LATCH FOR EXTENSION MA0155	1	2700.1[106 ⁵ / ₈ "] ≤ H ≤ 3300 mm [129 ¹⁵ / ₁₆ "] 3
MU0496	SCREW FH 3.5[¹ / ₈ "]X20[³ / ₄ "]	4	8
MA0182	VENTILATION LATCH	1	if necessary 3
	LIFTING-SLIDING SOLUTION FROM 330 kg [727 lbs] TO 440 kg [970 lbs]	2	4
MA0172	KIT CARRIAGES LOAD CAPACITY 440 kg [970 lbs] (PAIR)		

A schematic diagram of a three-pane window assembly. The window is divided into three horizontal panes by two muntins. A large plus sign (+) is centered in the middle pane. Arrows indicate air flow: a downward arrow in the top pane, an upward arrow in the bottom pane, and a rightward arrow in the middle pane. The window is shown within a frame, with a vertical section on the right side showing the frame profile and a horizontal section at the bottom showing the frame profile. The panes are labeled with diagonal lines indicating the direction of light or air flow.

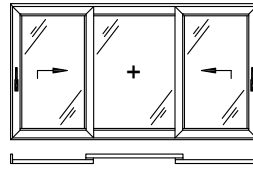


Order lists

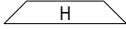
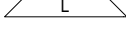
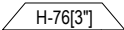
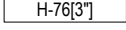
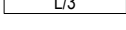
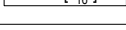
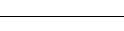
Frame 45°



For the correct dimensioning of the sashes refer to:
 -Static employment limits
 -Executive limits of the hardware

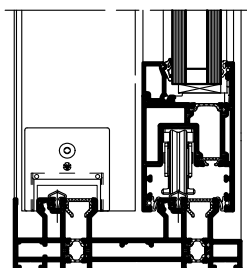


QUANTITY PER TYPOLOGY

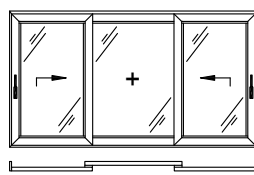
CODE	PROFILES	DESCRIPTION	QUANTITY	CUTTING		NOTES
NC14256		FRAME	2			
NC14256		FRAME	2			
NC14251		SASH	6+6	 		
NC14257		INTERLOCK PROFILE	4			
NC14263		COMPLEMENTARY PROFILE	2			Indicative dimensions
NC6588		DRIP	1			
-		GLASS STOP	6+6	 		
CODE	ACCESSORIES		QUANTITY			NOTES
MA0170	WALL ADJUSTMENT		20-28			Acc. dimensions
MA0186	ANTI VIBRATION SPACER		12			
MA0200	TRACK GUIDE		1 (L-92[38 ⁵])			
MA0202	SASH CORNER KEY		12			
MA0203	ALIGNMENT CORNER KEY		12			
MA0205	PIN 3[¹ / ₈ "]X17[⁵ / ₈ "]		24			
MA0206	SASH TOP MOULDED CORNER FOR MG067D		12			
MA0207	SASH BOTTOM MOULDED CORNER (PAIR)		6			Acc. dimensions
MA0210	WATER DRAINAGE BUSH		4-14			
MA0211	WATER DRAINAGE CAP		2			
MA0212	SASH EXTERIOR WEATHERSEAL CAPS		4			Acc. dimensions
MA0217	SASH TOP CENTERING DEVICE		8-20			
MA0223	SUPPORT FOR FIXED SASH		4			
MA0225	PLATE FOR MA0223		2			Acc. dimensions
MA0226	FASTENING WASHER		20-28			
MA0237	SCREW 4.8[¹ / ₄ "]X10[³ / ₈ "] RH WASHER HEAD		8			
MA0238	CORNER KEY		12			
MA0243	SASH INTERIOR WEATHERSEAL CAPS		2			
MA0247	FRAME BOTTOM EATHERSEAL CAPS		2			
MA0248	FRAME TOP WEATHERSEAL CAPS		2			
MA0290	GLASS SHIMMING BASE		24			
MA0293	CORNER KEY		12			
MA4564	GLASS STOP GASKET IN PIECES (30mm[1 ¹ / ₈ "])		36-60			Acc. dimensions
MA5521	WATER DRAINAGE BUSH WITH MEMBRANE		2			
MA5550	PIN		24			
MA6337	PAN HEAD SCREW 4.2[¹ / ₈ "]X25[1"]		12-48			Acc. dimensions
MA7200	PIN SCREW		24			
MA9144	WATER DRAINAGE VALVE		2			
MA9160	WATER DRAINAGE VALVE		2			
MA9174	BUFFER STOP WITH PAN HEAD SCREW 4.2[¹ / ₈ "]X22[⁷ / ₈ "]		4			
MU0572	PAN HEAD SCREW 4.2[¹ / ₈ "]X9.5[³ / ₈ "] (STANDARD configuration)		6-24			Acc. dimensions
MU0706	SELF-TAPPING PAN HEAD SCREW 4.8[¹ / ₄ "]X16[⁵ / ₈ "]		10			

Order lists

Frame 45°



For the correct dimensioning of the sashes refer to:
 -Static employment limits
 -Executive limits of the hardware



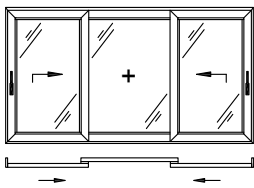
QUANTITY PER TYPOLOGY

CODE	GASKETS	QUANTITY	CUTTING	NOTES
STANDARD configuration				
MG042S	BRUSH GASKET	2 + 4	L/3---- H-76 [3"]	
MG060P	SPACER FOR INTERLOCK PROFILE	4	H-76 [3"]	
MG063D	STROKE END GASKET	4	H-76 [3"]	
MG066D	SASH TOP WEATHERSEAL GASKET	2	L	Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	6	2L+4H	Indicative dimensions
MG068D	TRACK COVER	6	2L+4H	Indicative dimensions
MG187P	TRACK COVER	8	4L+4H	Indicative dimensions
MG386D	EXTERNAL GLAZING GASKET	8	2L+6H	Indicative dimensions
---	INTERNAL GLAZING GASKET	8	2L+6H	Indicative dimensions
MG671D	SPACER GASKET	2	L/3	Indicative dimensions
MG954P	SIDE FINISHING GASKET SASH	2	H-76 [3"]	
PLUS configuration				
MG031T	EXTERNAL GLAZING GASKET	8	2L+6H	Indicative dimensions
---	INTERNAL GLAZING GASKET	8	2L+6H	Indicative dimensions
MG042S	BRUSH GASKET	2 + 4	L/3---- H-76 [3"]	
MG060P	SPACER FOR INTERLOCK PROFILE	4	H-76 [3"]	
MG063D	STROKE END GASKET	4	H-76 [3"]	
MG066D	SASH TOP WEATHERSEAL GASKET	2	L	Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	6	2L+4H	Indicative dimensions
MG068D	TRACK COVER	6	2L+4H	Indicative dimensions
MG187P	TRACK COVER	8	4L+4H	Indicative dimensions
MG188E	INSULATING GASKET	7	1L+6H	Indicative dimensions
MG190PS	UNDER-GLASS INSULATING GASKET	8	2L+6H	Indicative dimensions
MG671D	SPACER GASKET	2	L/3	If necessary
	GLASS	3	L/3-139.3 ¹ [52"] ---- H-244 ⁵ [98"]	

Order lists

Frame 45°

MGU hardware

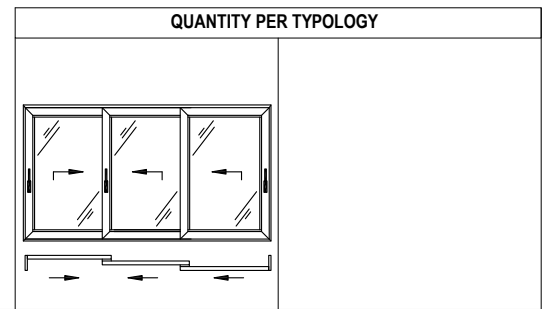
QUANTITY PER TYPOLOGY	
	

CODE	HANDLES		
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	2	
MA2984	KIT SCREWS + SQUARE SPINDLE	2	
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	2	
MA2984	KIT SCREWS + SQUARE SPINDLE	2	
MS3080	HALF CYLINDER	2	
INSIDE / OUTSIDE: HANDLE + CYLINDER			
MA2988	DOUBLE PULL HANDLE HS ESSENCE	2	
MA2985	KIT SCREWS + SQUARE SPINDLE	2	
MS3076	CYLINDER	2	
CODE	HARDWARE		
MA0183	LOCK KEEPER	4	H ≤ 1855 mm[6'1"]
		6	H ≥ 1856 mm[6'1"]
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	2	optional
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0215	LIFT-AND-SLIDE BASE SET 300 kg [660 lb]	2	
MA0227	EXTENSION KIT FOR LIFT-AND-SLIDE LOCK WITH KEEPER	2	3000mm[9'1 ¹ / ₈ "]≤H≤3230mm[10'7 ¹ / ₈ "]
MA9014	ANTI-SHOCK CAP	2	
MA9031	COVER	2	2730mm[8'11 ¹ / ₂ "]≤H≤3000mm[9'1 ¹ / ₈ "]
MA9032	VENTILATION KEEPER	2	
MA9051	LOCK E=47,5[1 ⁷ / ₈ "] H SASH= 855mm[2'9 ⁵ / ₈ "] -1275mm[4'2 ¹ / ₄ "]	2	
MA9052	LOCK E=47,5[1 ⁷ / ₈ "] H SASH= 1276mm[4'2 ¹ / ₄ "] -1855mm[6'1"]		
MA9053	LOCK E=47,5[1 ⁷ / ₈ "] H SASH= 1856mm[6'1"] -2355mm[7'8 ³ / ₄ "]		
MA9054	LOCK E=47,5[1 ⁷ / ₈ "] H SASH= 2356mm[7'8 ³ / ₄ "] -2755mm[7'8 ³ / ₄ "]		
MA9055	CONNECTING BAR SASH L=720mm[2'4 ³ / ₈ "]-1600mm[5'3"]	2	
MA9056	CONNECTING BAR SASH L=1601[5'3"]-1850mm[6' ¹ / ₈ "]		
MA9057	CONNECTING BAR SASH L=1851mm[6' ⁷ / ₈ "]-2350[7'8 ¹ / ₂ "]		
MA9058	CONNECTING BAR SASH L=2350mm[7'8 ¹ / ₂ "]-3300mm[10'9 ⁷ / ₈ "]		
MA9079	LOCK SPRING FOR SASHES OVER 200 kg [440lb]	2	
MA9121	ANTI-LIFTING BLOCK	2	
MU0496	SELF TAPPING SCREW 3.5[¹ / ₈ "]X20[³ / ₄ "]	4	
	LIFTING-SLIDING SOLUTION FROM 300 kg [660lb] TO 400 kg [880lb]		
MA9078	KIT CARRIAGES LOAD CAPACITY 400 kg [880 lbs] (PAIR)	2	

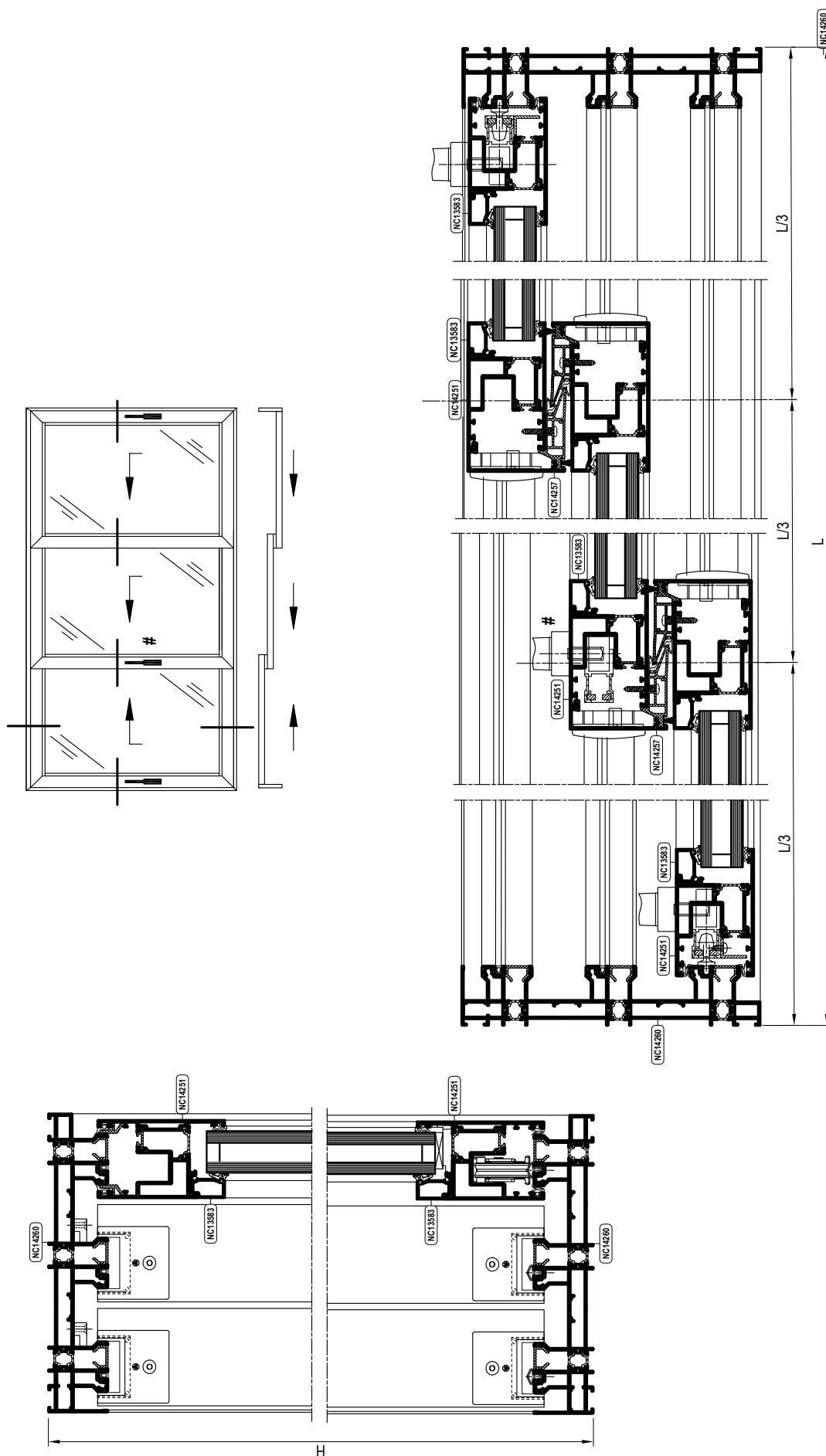
Order lists

Frame 45°

MHA hardware



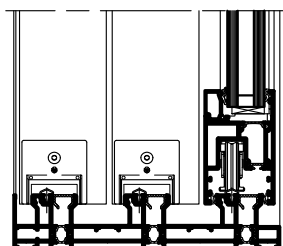
		QUANTITY PER TYPOLOGY	
CODE	HANDLES		
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	1 - 3	
MA2984	KIT SCREWS + SQUARE SPINDLE	1 - 3	
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	2	
MA2984	KIT SCREWS + SQUARE SPINDLE	2	
MS3080	HALF CYLINDER	2	
INSIDE / OUTSIDE: HANDLE + CYLINDER			
MA2988	DOUBLE PULL HANDLE HS ESSENCE	2	
MA2985	KIT SCREWS + SQUARE SPINDLE	2	
MS3076	CYLINDER	2	
CODE	HARDWARE		
MA0154	SHIM FOR EXTENSION MA0155	2	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MA0155	EXTENSION FOR LOCK COMPLETE WITH LOCKING POINTS	2	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MA0190	KIT HS SOFT LIFT (CANNOT BE USED WITH LOCK MA0194)	3	optional
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	3	optional
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0198	LOCK KEEPER	4	$H \leq 1800 \text{ mm}[70\frac{7}{8}"]$
		6	$H \geq 1801 \text{ mm}[70\frac{7}{8}"]$
		2	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MA0193	LIFT-AND-SLIDE BASE SET 330 kg [727 lb]	3	
MA9117	ANTI-SHOCK CAP	2	
MA9118	VENTILATION KEEPER	2	
MA0194	LOCK H SASH= 1200mm[3'11 $\frac{1}{4}$ "]-1800mm[5'10 $\frac{7}{8}$ "]	3	
MA0195	LOCK H SASH= 1801mm[5'10 $\frac{7}{8}$ "]-2100mm[5'10 $\frac{7}{8}$ "]		
MA0196	LOCK H SASH= 2101mm[5'10 $\frac{5}{8}$ "]-2400mm[7'10 $\frac{1}{2}$ "]		
MA0197	LOCK H SASH= 2401[7'10 $\frac{1}{2}$ "]-2700mm[8'10 $\frac{1}{4}$ "]		
MA9105	CONNECTING BAR SASH L=720mm[2'4 $\frac{3}{8}$ "]-1500mm[4'11"]	3	
MA9106	CONNECTING BAR SASH L=1501mm[4'11"]-2000mm[6'6 $\frac{3}{4}$ "]		
MA9107	CONNECTING BAR SASH L=2001mm[6' 6 $\frac{3}{4}$ "]-2500mm[8'2 $\frac{3}{8}$ "]		
MA9108	CONNECTING BAR SASH L=2501mm[8'2 $\frac{3}{8}$ "]-3265mm[10'8 $\frac{1}{2}$ "]		
MA9121	ANTI-LIFTING BLOCK	3	
MA0185	LATCH FOR LOCK MA0194	4	
	LATCH FOR LOCK MA0195	6	
	LATCH FOR LOCK MA0196	6	
	LATCH FOR LOCK MA0197	6	
	LATCH FOR EXTENSION MA0155	2	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MU0496	SCREW FH 3.5[$\frac{1}{4}$ "]X20[$\frac{3}{4}$ "]	6	
MA0182	VENTILATION LATCH	2	if necessary
LIFTING-SLIDING SOLUTION FROM 330 kg [727 lbs] TO 440 kg [970 lbs]			
MA0172	KIT CARRIAGES LOAD CAPACITY 440 kg [970 lbs] (PAIR)	3	



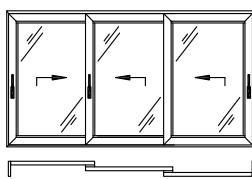
For the fixing of the pull handle use threaded screws on the profile
don't use the external flush pull grip in the package

Order lists

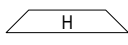
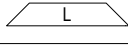
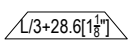
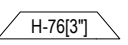
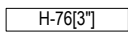
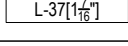
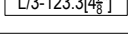
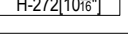
Frame 45°



QUANTITY PER TYPOLOGY



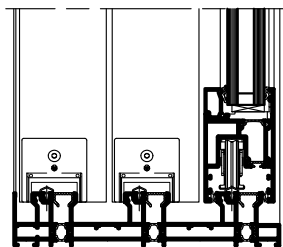
For the correct dimensioning of the sashes refer to:
 -Static employment limits
 -Executive limits of the hardware

CODE	PROFILES	DESCRIPTION	QUANTITY	CUTTING		NOTES
NC14260		FRAME	2			
NC14260		FRAME	2			
NC14251		SASH	6+6	 		
NC14257		INTERLOCK PROFILE	4			
NC6588		DRIP	1			
		GLASS STOP	6+6	 		

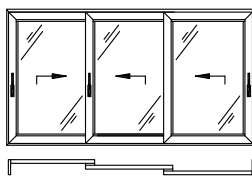
CODE	ACCESSORIES	QUANTITY		
MA0170	WALL ADJUSTMENT	20-28		Acc. dimensions
MA0186	ANTI VIBRATION SPACER	12		
MA0200	TRACK GUIDE	3 (L-92[3 5/8\"]		
MA0202	SASH CORNER KEY	12		
MA0203	ALIGNMENT CORNER KEY	12		
MA0205	PIN 3[1/8\"]X17[5/8\"]	24		
MA0206	SASH TOP MOULDED CORNER FOR MG067D	12		
MA0207	SASH BOTTOM MOULDED CORNER (PAIR)	6		
MA0210	WATER DRAINAGE BUSH	2-7		Acc. dimensions
MA0211	WATER DRAINAGE CAP	1		
MA0212	SASH EXTERIOR WEATHERSEAL CAPS	4		
MA0217	SASH TOP CENTERING DEVICE	12-30		Acc. dimensions
MA0226	FASTENING WASHER	20-28		Acc. dimensions
MA0237	SCREW 4.8[1/4\"]X10[3/8\"] RH WASHER HEAD	8		
MA0238	CORNER KEY	12		
MA0243	SASH INTERIOR WEATHERSEAL CAPS	2		
MA0247	FRAME BOTTOM EATHERSEAL CAPS	2		
MA0248	FRAME TOP WEATHERSEAL CAPS	2		
MA0290	GLASS SHIMMING BASE	24		
MA0293	CORNER KEY	16		
MA4564	GLASS STOP GASKET IN PIECES (30mm[1 1/8\"]	36-60		Acc. dimensions
MA5550	PIN	24		
MA6337	PAN HEAD SCREW 4.2[1/8\"]X25[1\"]	12-48		Acc. dimensions
MA7200	PIN SCREW	32		
MA9144	WATER DRAINAGE VALVE	1		
MA9160	WATER DRAINAGE VALVE	4		
MA9174	BUFFER STOP WITH PAN HEAD SCREW 4.2[1/8\"]X22[7/8\"]	4		Acc. dimensions
MU0572	PAN HEAD SCREW 4.2[1/8\"]X9.5[3/8\"](STANDARD configuration)	6-24		

Order lists

Frame 45°



QUANTITY PER TYPOLOGY



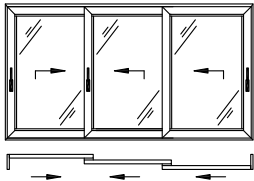
For the correct dimensioning of the sashes refer to:
 -Static employment limits
 -Executive limits of the hardware

CODE	GASKETS	QUANTITY	CUTTING		NOTES
STANDARD configuration					
MG042S	BRUSH GASKET	4	H-76 [3"]		
MG060P	SPACER FOR INTERLOCK PROFILE	4	H-76 [3"]		
MG063D	STROKE END GASKET	4	H-76 [3"]		
MG066D	SASH TOP WEATHERSEAL GASKET	2	L		Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	6	2L+4H		Indicative dimensions
MG068D	TRACK COVER	9	3L+6H		Indicative dimensions
MG187P	TRACK COVER	12	6L+6H		Indicative dimensions
MG386D	EXTERNAL GLAZING GASKET	8	2L+6H		Indicative dimensions
---	INTERNAL GLAZING GASKET	8	2L+6H		Indicative dimensions
MG954P	SIDE FINISHING GASKET SASH	2	H-76 [3"]		
PLUS configuration					
MG031T	EXTERNAL GLASS GASKET	8	2L+6H		Indicative dimensions
---	INTERNAL GLASS GASKET	8	2L+6H		Indicative dimensions
MG042S	BRUSH GASKET	4	H-76 [3"]		
MG060P	SPACER FOR INTERLOCK PROFILE	4	H-76 [3"]		
MG063D	STROKE END GASKET	4	H-76 [3"]		
MG066D	SASH TOP WEATHERSEAL GASKET	2	L		Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	6	2L+4H		Indicative dimensions
MG068D	TRACK COVER	9	3L+6H		Indicative dimensions
MG187P	TRACK COVER	12	6L+6H		Indicative dimensions
MG188E	INSULATING GASKET	7	1L+6H		Indicative dimensions
MG190PS	UNDER-GLASS INSULATING GASKET	8	2L+6H		Indicative dimensions
	GLASS	3	L/3-139.3 [52"] ---- H-244 [98"]		

Order lists

Frame 45°

MGU hardware

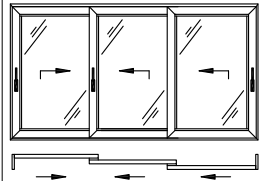
QUANTITY PER TYPOLOGY	
	

CODE	HANDLES		
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	1 - 3	
MA2984	KIT SCREWS + SQUARE SPINDLE	1 - 3	
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	2	
MA2984	KIT SCREWS + SQUARE SPINDLE	2	
MS3080	HALF CYLINDER	2	
INSIDE / OUTSIDE: HANDLE + CYLINDER			
MA2988	DOUBLE PULL HANDLE HS ESSENCE	2	
MA2985	KIT SCREWS + SQUARE SPINDLE	2	
MS3076	CYLINDER	2	
CODE	HARDWARE		
MA0183	LOCK KEEPER	4	H ≤ 1855 mm[6'1"]
		6	H ≥ 1856 mm[6'1"]
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	3	optional
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0215	LIFT-AND-SLIDE BASE SET 300 kg [660 lb]	3	
MA0227	EXTENSION KIT FOR LIFT-AND-SLIDE LOCK WITH KEEPER	2	3000mm[9'1 ¹ / ₈ "]≤H≤3230mm[10'7 ¹ / ₈ "]
MA9014	ANTI-SHOCK CAP	2	
MA9031	COVER	2	2730mm[8'1 ¹ / ₂ "]≤H≤3000mm[9'1 ¹ / ₈ "]
MA9032	VENTILATION KEEPER	2	
MA9051	LOCK E=47,5[1 ⁷ / ₈ "] H SASH= 855mm[2'9 ⁵ / ₈ "] -1275mm[4'2 ¹ / ₄ "]	3	
MA9052	LOCK E=47,5[1 ⁷ / ₈ "] H SASH= 1276mm[4'2 ¹ / ₄ "] -1855mm[6'1"]		
MA9053	LOCK E=47,5[1 ⁷ / ₈ "] H SASH= 1856mm[6'1"] -2355mm[7'8 ³ / ₄ "]		
MA9054	LOCK E=47,5[1 ⁷ / ₈ "] H SASH= 2356mm[7'8 ³ / ₄ "] -2755mm[7'8 ³ / ₄ "]		
MA9055	CONNECTING BAR SASH L=720mm[2'4 ³ / ₈ "]-1600mm[5'3"]	3	
MA9056	CONNECTING BAR SASH L=1601[5'3"]-1850mm[6'1 ¹ / ₈ "]		
MA9057	CONNECTING BAR SASH L=1851mm[6'1 ¹ / ₈ "]-2350[7'8 ¹ / ₂ "]		
MA9058	CONNECTING BAR SASH L=2350mm[7'8 ¹ / ₂ "]-3300mm[10'9 ⁷ / ₈ "]		
MA9079	LOCK SPRING FOR SASHES OVER 200 kg [440lb]	3	
MA9121	ANTI-LIFTING BLOCK	3	
MU0496	SELF TAPPING SCREW 3.5[1 ¹ / ₈ "]X20[8 ³ / ₄ "]	6	
LIFTING-SLIDING SOLUTION FROM 300 kg [660lb] TO 400 kg [880lb]			
MA9078	KIT CARRIAGES LOAD CAPACITY 400 kg [880 lbs] (PAIR)	3	

Order lists

Frame 45°

MHA hardware

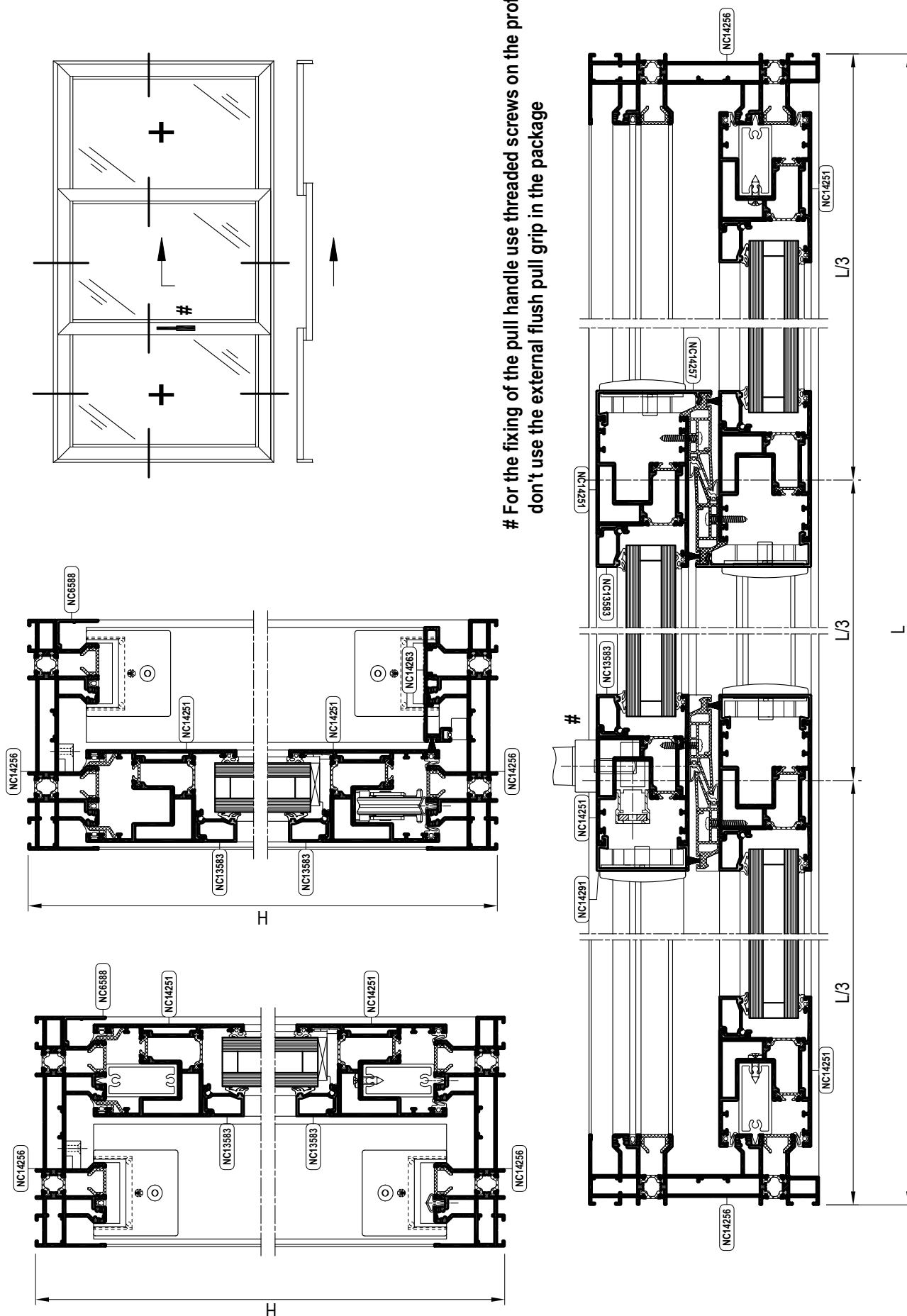
QUANTITY PER TYPOLOGY	
	

CODE	HANDLES		
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	1 - 3	
MA2984	KIT SCREWS + SQUARE SPINDLE	1 - 3	
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	2	
MA2984	KIT SCREWS + SQUARE SPINDLE	2	
MS3080	HALF CYLINDER	2	
INSIDE / OUTSIDE: HANDLE + CYLINDER			
MA2988	DOUBLE PULL HANDLE HS ESSENCE	2	
MA2985	KIT SCREWS + SQUARE SPINDLE	2	
MS3076	CYLINDER	2	
CODE	HARDWARE		
MA0154	SHIM FOR EXTENSION MA0155	2	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MA0155	EXTENSION FOR LOCK COMPLETE WITH LOCKING POINTS	2	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MA0190	KIT HS SOFT LIFT (CANNOT BE USED WITH LOCK MA0194)	3	optional
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	3	optional
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0198	LOCK KEEPER	4	$H \leq 1800 \text{ mm}[70\frac{7}{8}"]$
		6	$H \geq 1801 \text{ mm}[70\frac{7}{8}"]$
		2	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MA0193	LIFT-AND-SLIDE BASE SET 330 kg [727 lb]	3	
MA9117	ANTI-SHOCK CAP	2	
MA9118	VENTILATION KEEPER	2	
MA0194	LOCK H SASH= 1200mm[3'11 $\frac{1}{4}$ "]-1800mm[5'10 $\frac{7}{8}$ "]	3	
MA0195	LOCK H SASH= 1801mm[5'10 $\frac{7}{8}$ "]-2100mm[5'10 $\frac{5}{8}$ "]		
MA0196	LOCK H SASH= 2101mm[5'10 $\frac{5}{8}$ "]-2400mm[7'10 $\frac{1}{2}$ "]		
MA0197	LOCK H SASH= 2401[7'10 $\frac{1}{2}$ "]-2700mm[8'10 $\frac{1}{4}$ "]		
MA9105	CONNECTING BAR SASH L=720mm[2'4 $\frac{3}{8}$ "]-1500mm[4'11"]	3	
MA9106	CONNECTING BAR SASH L=1501mm[4'11"]-2000mm[6'6 $\frac{3}{4}$ "]		
MA9107	CONNECTING BAR SASH L=2001mm[6' 6 $\frac{3}{4}$ "]-2500mm[8'2 $\frac{3}{8}$ "]		
MA9108	CONNECTING BAR SASH L=2501mm[8'2 $\frac{3}{8}$ "]-3265mm[10'8 $\frac{1}{2}$ "]		
MA9121	ANTI-LIFTING BLOCK	3	
MA0185	LATCH FOR LOCK MA0194	4	
	LATCH FOR LOCK MA0195	6	
	LATCH FOR LOCK MA0196	6	
	LATCH FOR LOCK MA0197	6	
	LATCH FOR EXTENSION MA0155	2	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MU0496	SCREW FH 3.5[$\frac{1}{8}$ "]X20[$\frac{3}{4}$ "]	6	
MA0182	VENTILATION LATCH	2	if necessary
LIFTING-SLIDING SOLUTION FROM 330 kg [727 lbs] TO 440 kg [970 lbs]			
MA0172	KIT CARRIAGES LOAD CAPACITY 440 kg [970 lbs] (PAIR)	3	

Order lists

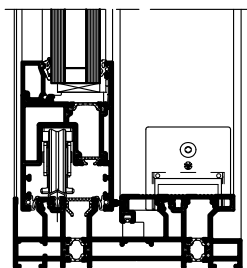
2 fixed sashes with 1 central sliding sash

Frame 45°

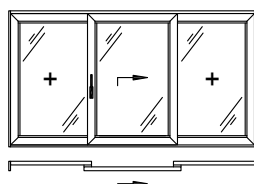


Order lists

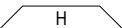
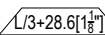
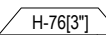
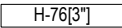
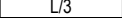
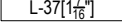
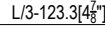
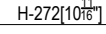
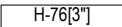
Frame 45°



For the correct dimensioning of the sashes refer to:
 -Static employment limits
 -Executive limits of the hardware

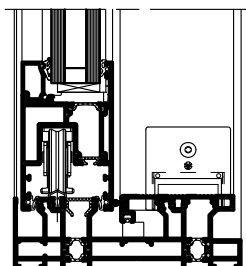


QUANTITY PER TYPOLOGY

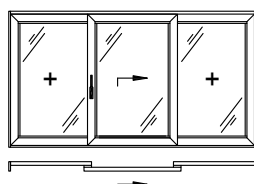
CODE	PROFILES	DESCRIPTION	QUANTITY	CUTTING		NOTES
NC14256		FRAME	2			
NC14256		FRAME	2			
NC14251		SASH	6+6	 		
NC14257		INTERLOCK PROFILE	2			
NC14263		COMPLEMENTARY PROFILE	1			Indicative dimensions
NC6588		DRIP	1			
-		GLASS STOP	6+6	 		
NC14291		CENTRAL COVER	2			
CODE	ACCESSORIES		QUANTITY			NOTES
MA0170	WALL ADJUSTMENT		20-28			Acc. dimensions
MA0186	ANTI VIBRATION SPACER		12			
MA0200	TRACK GUIDE		1 (L-92[3 5/8\"])			
MA0202	SASH CORNER KEY		12			
MA0203	ALIGNMENT CORNER KEY		12			
MA0205	PIN 3 1/8\"X17 5/8\"		24			
MA0206	SASH TOP MOULDED CORNER FOR MG067D		12			
MA0207	SASH BOTTOM MOULDED CORNER (PAIR)		6			Acc. dimensions
MA0210	WATER DRAINAGE BUSH		2-7			
MA0211	WATER DRAINAGE CAP		1			
MA0212	SASH EXTERIOR WEATHERSEAL CAPS		4			Acc. dimensions
MA0217	SASH TOP CENTERING DEVICE		4-10			
MA0223	SUPPORT FOR FIXED SASH		10			
MA0225	PLATE FOR MA0223		2			Acc. dimensions
MA0226	FASTENING WASHER		20-28			
MA0237	SCREW 4.8[1/4\"]X10[5/8\"] RH WASHER HEAD		8			
MA0238	CORNER KEY		12			
MA0243	SASH INTERIOR WEATHERSEAL CAPS		2			
MA0247	FRAME BOTTOM EATHERSEAL CAPS		2			
MA0248	FRAME TOP WEATHERSEAL CAPS		2			
MA0290	GLASS SHIMMING BASE		24			
MA0293	CORNER KEY		12			
MA4564	GLASS STOP GASKET IN PIECES (30mm[1 1/8\"])		36-60			Acc. dimensions
MA5550	PIN		24			
MA6337	PAN HEAD SCREW 4.2[1/8\"]X25[1\"]		12-48			Acc. dimensions
MA7200	PIN SCREW		24			
MA9144	WATER DRAINAGE VALVE		1			
MA9160	WATER DRAINAGE VALVE		4			
MU0706	SELF-TAPPING PAN HEAD SCREW 4.8[1/4\"]X16[5/8\"]		30			

Order lists

Frame 45°



For the correct dimensioning of the sashes refer to:
 -Static employment limits
 -Executive limits of the hardware



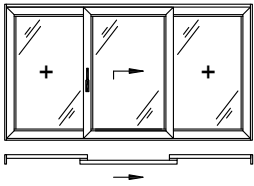
QUANTITY PER TYPOLOGY

CODE	GASKETS	QUANTITY	CUTTING	NOTES
STANDARD configuration				
MG042S	BRUSH GASKET 7X9	1 + 4	L/3---- H-76[3"]	
MG060P	SPACER FOR INTERLOCK PROFILE	4	H-76[3"]	
MG063D	STROKE END GASKET	4	H-76[3"]	
MG066D	SASH TOP WEATHERSEAL GASKET	2	L	Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	6	2L+4H	Indicative dimensions
MG068D	TRACK COVER	6	2L+4H	Indicative dimensions
MG186D	TRACK COVER	2	H-76[3"]	
MG187P	EXTERNAL GLAZING GASKET	8	4L+4H	Indicative dimensions
MG386D	INTERNAL GLAZING GASKET	8	2L+6H	Indicative dimensions
---		8	2L+6H	Indicative dimensions
MG671D	SPACER GASKET	1	L/3	If necessary
PLUS configuration				
MG031T	EXTERNAL GLAZING GASKET	8	2L+6H	Indicative dimensions
---	INTERNAL GLAZING GASKET	8	2L+6H	Indicative dimensions
MG042S	BRUSH GASKET 7X9	1 + 4	L/3---- H-76[3"]	
MG060P	SPACER FOR INTERLOCK PROFILE	4	H-76[3"]	
MG063D	STROKE END GASKET	4	H-76[3"]	
MG066D	SASH TOP WEATHERSEAL GASKET	2	L	Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	6	2L+4H	Indicative dimensions
MG068D	TRACK COVER	6	2L+4H	Indicative dimensions
MG186D	TRACK COVER	2	H-76[3"]	
MG187P	TRACK COVER	8	4L+4H	Indicative dimensions
MG188E	INSULATING GASKET	7	1L+6H	Indicative dimensions
MG190PS	UNDER-GLASS INSULATING GASKET	8	2L+6H	Indicative dimensions
MG671D	SPACER GASKET	1	L/3	
	GLASS	3	L/3-139.3 [52"] ---- H-244[98"]	

Order lists

Frame 45°

MGU hardware

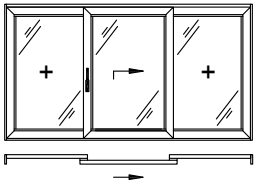
QUANTITY PER TYPOLOGY	
	

CODE	HANDLES		
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	1	
MA2984	KIT SCREWS + SQUARE SPINDLE	1	
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	1	
MA2984	KIT SCREWS + SQUARE SPINDLE	1	
MS3080	HALF CYLINDER	1	
CODE	HARDWARE		
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	1	optional
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0215	LIFT-AND-SLIDE BASE SET 300 kg [660 lb]	1	
MA9014	ANTI-SHOCK CAP	1	if necessary
MA9032	VENTILATION KEEPER	1	
MA9051	LOCK E=47,5[1 $\frac{7}{8}$ "] H SASH= 855mm[2'9 $\frac{5}{8}$ "] -1275mm[4'2 $\frac{1}{4}$ "]	1	
MA9052	LOCK E=47,5[1 $\frac{7}{8}$ "] H SASH= 1276mm[4'2 $\frac{1}{4}$ "] -1855mm[6'1"]		
MA9053	LOCK E=47,5[1 $\frac{7}{8}$ "] H SASH= 1856mm[6'1"] -2355mm[7'8 $\frac{3}{4}$ "]		
MA9054	LOCK E=47,5[1 $\frac{7}{8}$ "] H SASH= 2356mm[7'8 $\frac{3}{4}$ "] -2755mm[7'8 $\frac{3}{4}$ "]		
MA9055	CONNECTING BAR SASH L=720mm[2'4 $\frac{3}{8}$ "]-1600mm[5'3"]	1	
MA9056	CONNECTING BAR SASH L=1601[5'3"]-1850mm[6'0 $\frac{7}{8}$ "]		
MA9057	CONNECTING BAR SASH L=1851mm[6'0 $\frac{7}{8}$ "]-2350[7'8 $\frac{1}{2}$ "]		
MA9058	CONNECTING BAR SASH L=2350mm[7'8 $\frac{1}{2}$ "]-3300mm[10'9 $\frac{5}{8}$ "]		
MA9079	LOCK SPRING FOR SASHES OVER 200 kg [440lb]	1	
MA9121	ANTI-LIFTING BLOCK	1	
MU0496	SELF TAPPING SCREW 3.5[$\frac{1}{8}$ "]X20[$\frac{3}{4}$ "]	2	
	LIFTING-SLIDING SOLUTION FROM 300 kg [660lb] TO 400 kg [880lb]		
MA9078	KIT CARRIAGES LOAD CAPACITY 400 kg [880 lbs] (PAIR)	1	

Order lists

Frame 45°

MHA hardware

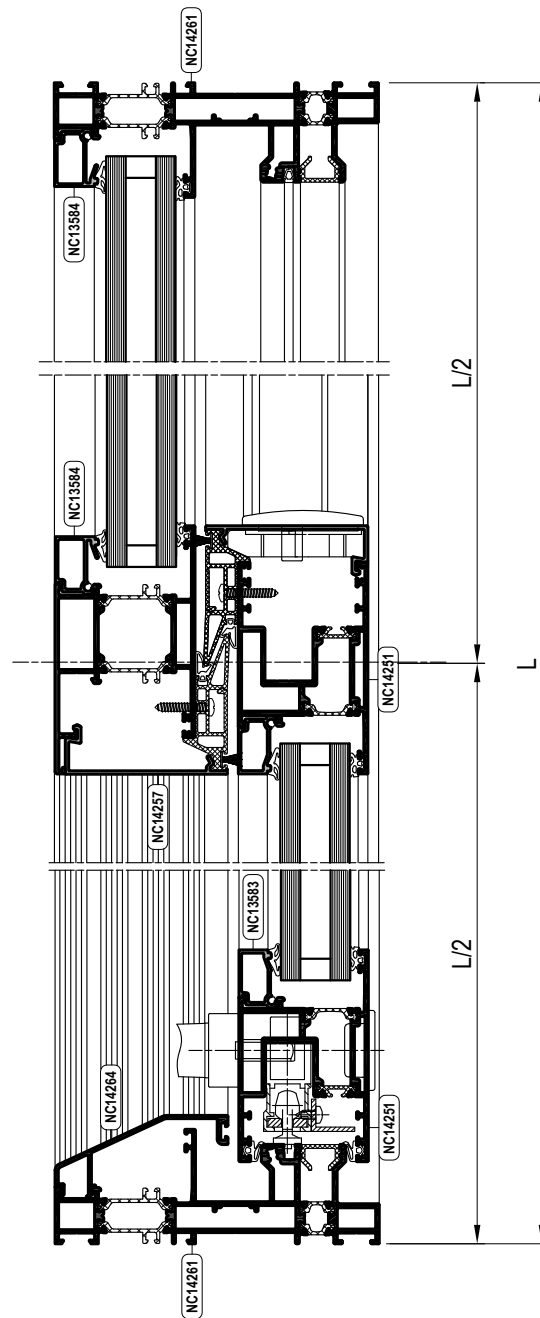
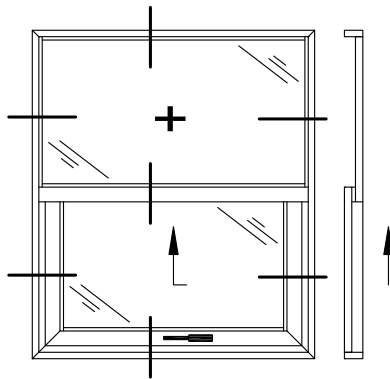
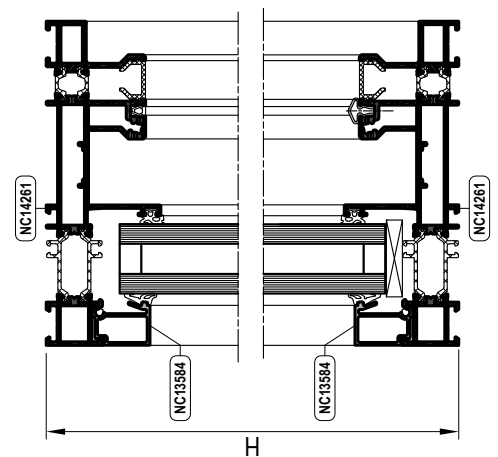
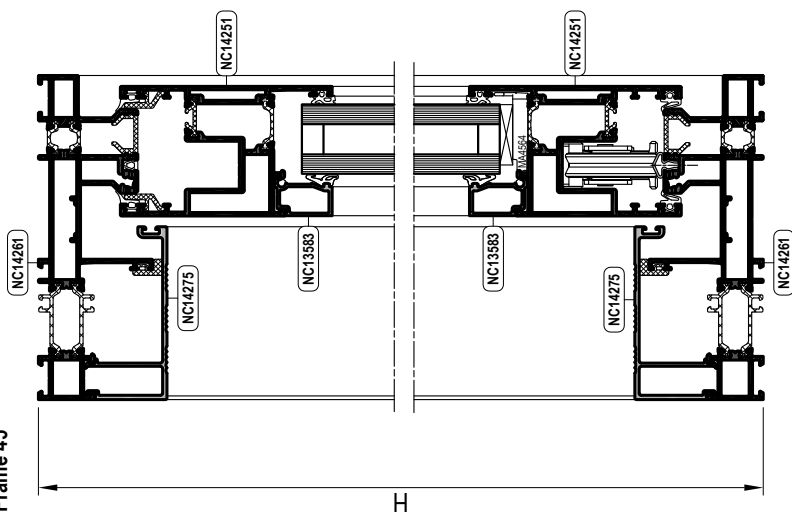
QUANTITY PER TYPOLOGY	
	

CODE	HANDLES		
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	1	
MA2984	KIT SCREWS + SQUARE SPINDLE	1	
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	1	
MA2984	KIT SCREWS + SQUARE SPINDLE	1	
MS3080	HALF CYLINDER	1	
CODE	APPARECCHIATURA		
MA0154	SHIM FOR EXTENSION MA0155	1	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MA0155	EXTENSION FOR LOCK COMPLETE WITH LOCKING POINTS	1	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MA0190	KIT HS SOFT LIFT (CANNOT BE USED WITH LOCK MA0194)	1	optional
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330lb])	1	optional
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg [330lb] TO 300 kg [660lb])		
MA0193	LIFT-AND-SLIDE BASE SET 330 kg [727 lb]	1	
MA9117	ANTI-SHOCK CAP	1	if necessary
MA9118	VENTILATION KEEPER	1	
MA0194	LOCK H SASH= 1200mm[3'11 $\frac{1}{4}$ "]-1800mm[5'10 $\frac{7}{8}$ "]	1	
MA0195	LOCK H SASH= 1801mm[5'10 $\frac{7}{8}$ "]-2100mm[5'10 $\frac{5}{8}$ "]		
MA0196	LOCK H SASH= 2101mm[5'10 $\frac{5}{8}$ "]-2400mm[7'10 $\frac{1}{2}$ "]		
MA0197	LOCK H SASH= 2401[7'10 $\frac{1}{2}$ "]-2700mm[8'10 $\frac{1}{4}$ "]		
MA9105	CONNECTING BAR SASH L=720mm[2'4 $\frac{3}{8}$ "]-1500mm[4'11"]	1	
MA9106	CONNECTING BAR SASH L=1501mm[4'11"]-2000mm[6'6 $\frac{3}{4}$ "]		
MA9107	CONNECTING BAR SASH L=2001mm[6'6 $\frac{3}{4}$ "]-2500mm[8'2 $\frac{3}{8}$ "]		
MA9108	CONNECTING BAR SASH L=2501mm[8'2 $\frac{3}{8}$ "]-3265mm[10'8 $\frac{1}{2}$ "]		
MA9121	ANTI-LIFTING BLOCK	1	
MU0496	SCREW FH 3.5[$\frac{1}{8}$ "]X20[$\frac{3}{4}$ "]	2	
	LIFTING-SLIDING SOLUTION FROM 330 kg [727 lbs] TO 440 kg [970 lbs]		
MA0172	KIT CARRIAGES LOAD CAPACITY 440 kg [970 lbs] (PAIR)	1	

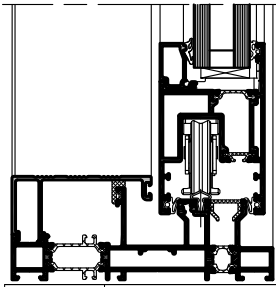
Order lists

1 sliding sash with fixed side sash

Frame 45°

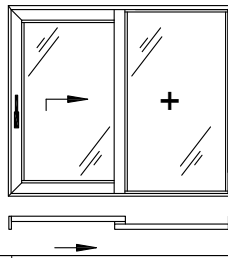


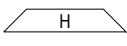
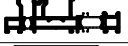
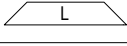
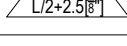
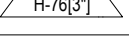
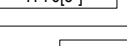
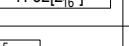
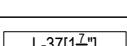
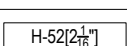
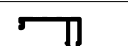
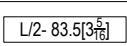
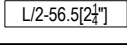
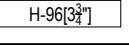
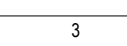
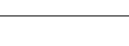
Order lists - Frame 45°



For the correct dimensioning of the sashes refer to:
-Static employment limits
-Executive limits of the hardware

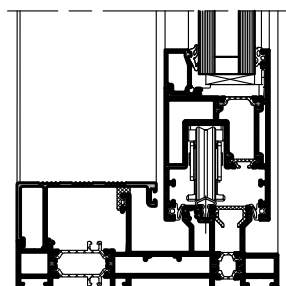
QUANTITY PER TYPOLOGY



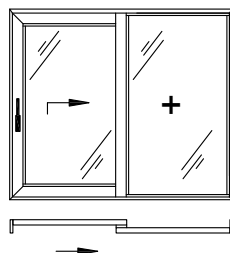
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NC14261		FRAME	2		
NC14261		FRAME	2		
NC14251		SASH	2+2	 	
NC14257		INTERLOCK PROFILE	1+1	 	
NC14264		COMPLEMENTARY PROFILE	1		
NC6588		DRIP	1		
NC14277		TRANSOM	1		
NC14275		COMPLEMENTARY PROFILE	2		
-		GLASS STOP FRAME	2+2	 	
-		GLASS STOP SASH	2+2	 	
MA0170	WALL ADJUSTMENT		20-28		Acc. dimensions
MA0186	ANTI VIBRATION SPACER		3		
MA0200	TRACK GUIDE		1 (L-92[3 5/8\"])		
MA0202	SASH CORNER KEY		4		
MA0203	ALIGNMENT CORNER KEY		4		
MA0205	PIN 3[13/16\"]X17[11/16\"]		8		
MA0206	SASH TOP MOULDED CORNER FOR MG067D		4		
MA0207	SASH BOTTOM MOULDED CORNER (PAIR)		2		
MA0210	WATER DRAINAGE BUSH		2-7		Acc. dimensions
MA0211	WATER DRAINAGE CAP		1		
MA0212	SASH EXTERIOR WEATHERSEAL CAPS		1		
MA0217	SASH TOP CENTERING DEVICE		4-10		Acc. dimensions
MA0226	FASTENING WASHER		20-28		Acc. dimensions
MA0237	SCREW 4.8[1/4\"]X10[3/8\"] RH WASHER HEAD		4		
MA0238	CORNER KEY		4		
MA0243	SASH INTERIOR WEATHERSEAL CAPS		1		
MA0290	GLASS SHIMMING BASE		8		
MA0293	CORNER KEY		8		
MA0294	FRAME BOTTOM EATHERSEAL CAPS		1		
MA0295	FRAME TOP WEATHERSEAL CAPS		1		
MA2807	CORNER KEY		4		
MA2810	CORNER KEY		6		
MA2844	SHEAR BLOCK		2		
MA2845	SHEAR BLOCK		2		
MA2864	PIN		4		
MA4564	GASKET FOR GLASS STOP FIXING (30mm[1 1/8\"])		24-40		Acc. dimensions
MA5550	PIN ZAMAK FOR WINDOWS		18		
MA6337	PAN HEAD SCREW 4.2[1/8\"]X25[1\"]		6-24		Acc. dimensions
MA7194	PLUGGING RUBBER FOR TRANSOM		2		
MA7197	GLASS SHIMMING BASE		6		
MA7200	PIN SCREW		16		
MA9144	WATER DRAINAGE VALVE		1		
MA9160	WATER DRAINAGE VALVE		2		
MA9174	BUFFER STOP WITH PAN HEAD SCREW 4.2[1/8\"]X22[7/8\"]		2		
MU0572	PAN HEAD SCREW 4.2[1/8\"]X9.5[3/8\"] (STANDARD configuration)		3-12		Acc. dimensions

Order lists

Frame 45°



For the correct dimensioning
of the sashes refer to:
-Static employment limits
-Executive limits of the hardware



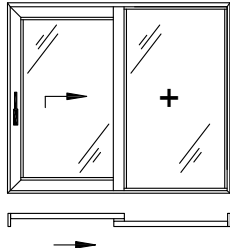
QUANTITY PER TYPOLOGY

CODE	GASKETS	QUANTITY	CUTTING			NOTES
STANDARD configuration						
MG042S	BRUSH GASKET	2	H-76 [3"]			
MG060P	SPACER FOR INTERLOCK PROFILE	2	H-76 [3"]			
MG063D	STROKE END GASKET	2	H-76 [3"]			
MG066D	SASH TOP WEATHERSEAL GASKET	2	L/2			Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	4	2L/2+2H			Indicative dimensions
MG068D	TRACK COVER	3	1L+2H			Indicative dimensions
MG187P	TRACK COVER	4	2L+2H			Indicative dimensions
MG386D	EXTERNAL GLAZING GASKET	6	2L+4H			Indicative dimensions
---	INTERNAL GLAZING GASKET	6	2L+4H			Indicative dimensions
MG954P	SIDE FINISHING GASKET SASH	1	H-76 [3"]			
MG956D	GLASS STOP BEARING GASKET	1	L/2			Indicative dimensions
PLUS configuration						
MG031T	EXTERNAL GLAZING GASKET	6	2L+4H			Indicative dimensions
---	INTERNAL GLAZING GASKET	6	2L+4H			Indicative dimensions
MG042S	BRUSH GASKET	2	H-76 [3"]			
MG060P	SPACER FOR INTERLOCK PROFILE	2	H-76 [3"]			
MG063D	STROKE END GASKET	2	H-76 [3"]			
MG066D	SASH TOP WEATHERSEAL GASKET	2	L/2			Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	4	2L/2+2H			Indicative dimensions
MG068D	TRACK COVER	3	1L+2H			Indicative dimensions
MG187P	TRACK COVER	4	2L+2H			Indicative dimensions
MG188E	INSULATING GASKET	3	1L/2+2H			Indicative dimensions
MG190PS	UNDER-GLASS INSULATING GASKET	4	2L/2+2H			Indicative dimensions
MG281PS	UNDERGLASS INSULATION	4	2L/2+2H			Indicative dimensions
MG956D	GLASS STOP BEARING GASKET	1	L/2			Indicative dimensions
	GLASS SASH	1	L/2-165.5 ^[62"] ---- H-244 ^[98"]			
	GLASS FRAME	1	L/2-72.5 ^[28"] ---- H-68 ^[27"]			

Order lists

Frame 45°

MGU hardware

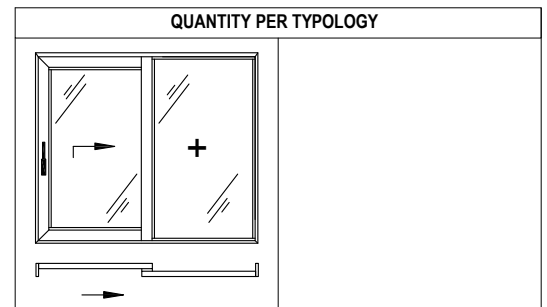
QUANTITY PER TYPOLOGY	
	

CODE	HANDLES		
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	1	
MA2984	KIT SCREWS + SQUARE SPINDLE	1	
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	1	
MA2984	KIT SCREWS + SQUARE SPINDLE	1	
MS3080	HALF CYLINDER	1	
INSIDE / OUTSIDE: HANDLE + CYLINDER			
MA2988	DOUBLE PULL HANDLE HS ESSENCE	1	
MA2985	KIT SCREWS + SQUARE SPINDLE	1	
MS3076	CYLINDER	1	
CODE	HARDWARE		
MA0183	LOCK KEEPER	2	H ≤ 1855 mm[6'1"]
		3	H ≥ 1856 mm[6'1"]
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	1	optional
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0215	LIFT-AND-SLIDE BASE SET 300 kg [660 lb]	1	
MA0227	EXTENSION KIT FOR LIFT-AND-SLIDE LOCK WITH KEEPER	1	3000mm[9'11 ¹ / ₈ "]≤H≤3230mm[10'7 ¹ / ₈ "]
MA9014	ANTI-SHOCK CAP	1	
MA9031	COVER	1	2730mm[8'11 ¹ / ₂ "]≤H≤3000mm[9'1 ¹ / ₈ "]
MA9032	VENTILATION KEEPER	1	
MA9051	LOCK E=47,5[1 ⁷ / ₈ "] H SASH= 855mm[2'9 ⁵ / ₈ "] -1275mm[4'2 ¹ / ₄ "]	1	
MA9052	LOCK E=47,5[1 ⁷ / ₈ "] H SASH= 1276mm[4'2 ¹ / ₄ "] -1855mm[6'1"]		
MA9053	LOCK E=47,5[1 ⁷ / ₈ "] H SASH= 1856mm[6'1"] -2355mm[7'8 ³ / ₄ "]		
MA9054	LOCK E=47,5[1 ⁷ / ₈ "] H SASH= 2356mm[7'8 ³ / ₄ "] -2755mm[7'8 ³ / ₄ "]		
MA9055	CONNECTING BAR SASH L=720mm[2'4 ³ / ₈ "]-1600mm[5'3"]	1	
MA9056	CONNECTING BAR SASH L=1601[5'3"]-1850mm[6 ¹ / ₈ "]		
MA9057	CONNECTING BAR SASH L=1851mm[6 ⁷ / ₈ "]-2350[7'8 ¹ / ₂ "]		
MA9058	CONNECTING BAR SASH L=2350mm[7'8 ¹ / ₂ "]-3300mm[10'9 ⁷ / ₈ "]		
MA9079	LOCK SPRING FOR SASHES OVER 200 kg [440lb]	1	
MA9121	ANTI-LIFTING BLOCK	1	
MU0496	SELF TAPPING SCREW 3.5[¹ / ₈ "]X20[³ / ₄ "]	2	
	LIFTING-SLIDING SOLUTION FROM 300 kg [660lb] TO 400 kg [880lb]		
MA9078	KIT CARRIAGES LOAD CAPACITY 400 kg [880 lbs] (PAIR)	1	

Order lists

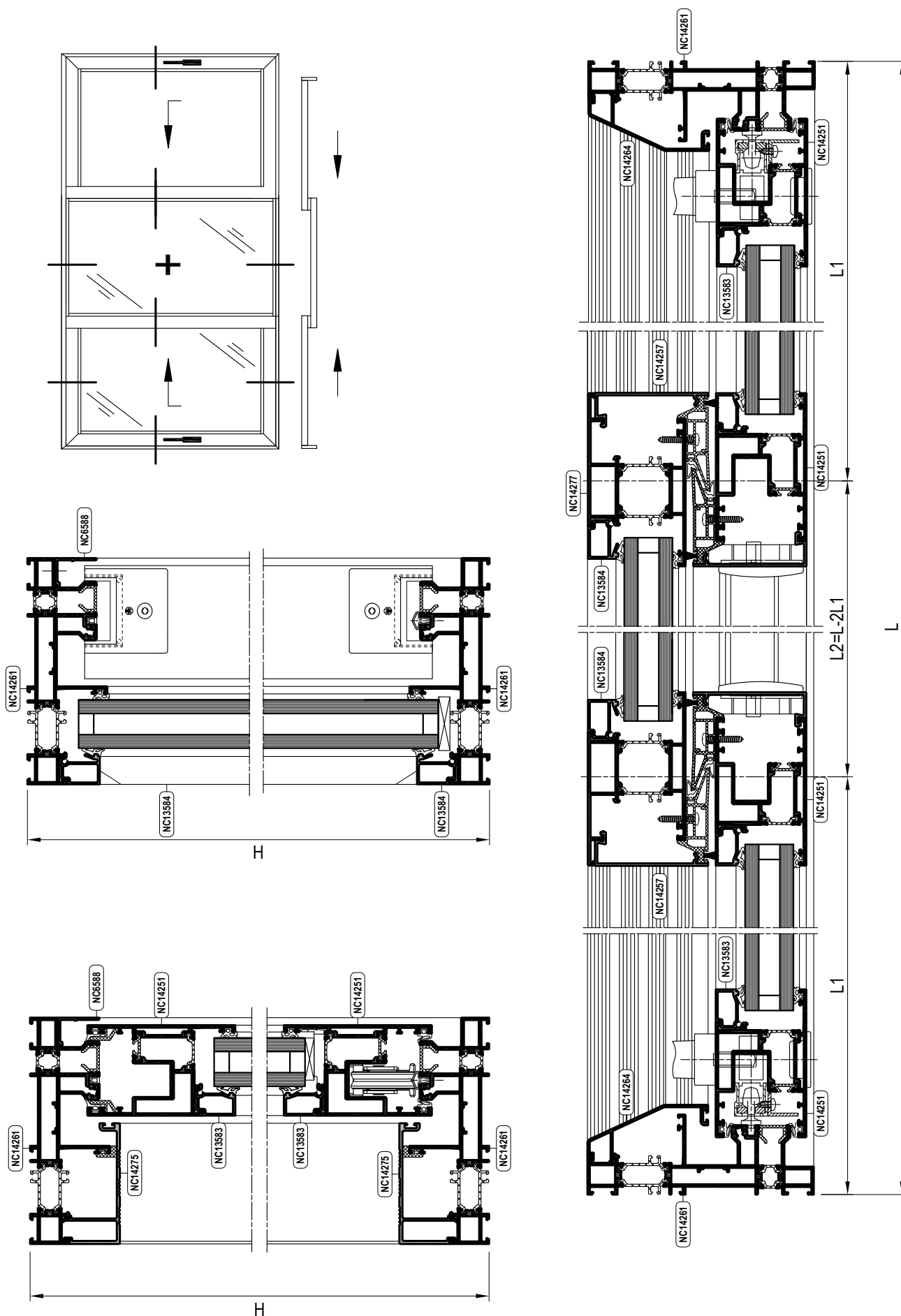
Frame 45°

MHA hardware

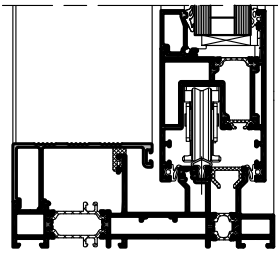


		QUANTITY PER TYPOLOGY	
CODE	HANDLES		
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	1	
MA2984	KIT SCREWS + SQUARE SPINDLE	1	
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	1	
MA2984	KIT SCREWS + SQUARE SPINDLE	1	
MS3080	HALF CYLINDER	1	
INSIDE / OUTSIDE: HANDLE + CYLINDER			
MA2988	DOUBLE PULL HANDLE HS ESSENCE	1	
MA2985	KIT SCREWS + SQUARE SPINDLE	1	
MS3076	CYLINDER	1	
CODE	HARDWARE		
MA0154	SHIM FOR EXTENSION MA0155	1	2700.1 ≤ H ≤ 3300 mm
MA0155	EXTENSION FOR LOCK COMPLETE WITH LOCKING POINTS	1	2700.1 ≤ H ≤ 3300 mm
MA0190	KIT HS SOFT LIFT (CANNOT BE USED WITH LOCK MA0194)	1	optional
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	1	optional
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0198	LOCK KEEPER	2	H ≤ 1800 mm [70 ⁷ / ₈ "]
		3	H ≥ 1801 mm [70 ⁷ / ₈ "]
		1	2700.1[106 ⁵ / ₁₆ "] ≤ H ≤ 3300 mm[129 ¹⁵ / ₁₆ "]
MA0193	LIFT-AND-SLIDE BASE SET 330 kg [727 lb]	1	
MA9117	ANTI-SHOCK CAP	1	
MA9118	VENTILATION KEEPER	1	
MA0194	LOCK H SASH= 1200mm[3'11 ¹ / ₄ "]-1800mm[5'10 ³ / ₈ "]	1	
MA0195	LOCK H SASH= 1801mm[5'10 ³ / ₈ "]-2100mm[5'10 ³ / ₈ "]		
MA0196	LOCK H SASH= 2101mm[5'10 ³ / ₈ "]-2400mm[7'10 ¹ / ₂ "]		
MA0197	LOCK H SASH= 2401[7'10 ¹ / ₂ "]-2700mm[8'10 ¹ / ₄ "]		
MA9105	CONNECTING BAR SASH L=720mm[2'4 ³ / ₈ "]-1500mm[4'11"]	1	
MA9106	CONNECTING BAR SASH L=1501mm[4'11"]-2000mm[6'6 ³ / ₈ "]		
MA9107	CONNECTING BAR SASH L=2001mm[6'6 ³ / ₈ "]-2500mm[8'2 ³ / ₈ "]		
MA9108	CONNECTING BAR SASH L=2501mm[8'2 ³ / ₈ "]-3265mm[10'8 ¹ / ₂ "]		
MA9121	ANTI-LIFTING BLOCK	1	
MA0185	LATCH FOR LOCK MA0194	2	
	LATCH FOR LOCK MA0195	3	
	LATCH FOR LOCK MA0196	3	
	LATCH FOR LOCK MA0197	3	
	LATCH FOR EXTENSION MA0155	1	2700.1[106 ⁵ / ₁₆ "] ≤ H ≤ 3300 mm[129 ¹⁵ / ₁₆ "]
MU0496	SCREW FH 3.5[¹ / ₈ "]X20[³ / ₄ "]	2	
MA0182	VENTILATION LATCH	1	if necessary
LIFTING-SLIDING SOLUTION FROM 330 kg [727 lbs] TO 440 kg [970 lbs]			
MA0172	KIT CARRIAGES LOAD CAPACITY 440 kg [970 lbs] (PAIR)	1	

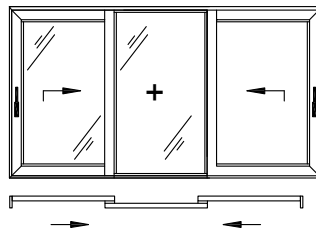
Order lists
2 sliding sashes with fixed central light
Frame 45°



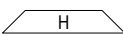
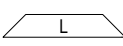
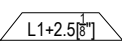
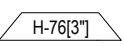
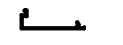
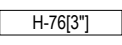
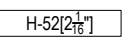
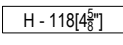
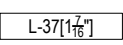
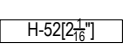
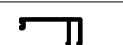
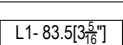
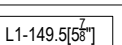
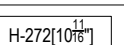
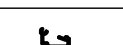
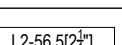
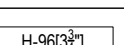
Order lists - Frame 45°



For the correct sash dimensioning of the sashes refer to:
-Static employment limits
-Executive limits of the hardware

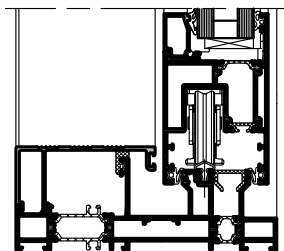


QUANTITY PER TYPOLOGY

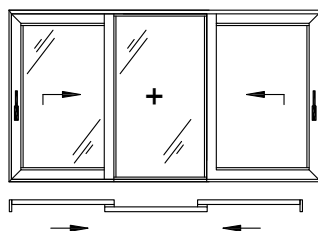
CODE	PROFILES	DESCRIPTION	QUANTITY	CUTTING	NOTES
NC14261		FRAME	2		
NC14261		FRAME	2		
NC14251		SASH	4+4	 	
NC14257		INTERLOCK PROFILE	2+2	 	
NC14264		COMPLEMENTARY PROFILE	2		
NC6588		DRIP	1		
NC14277		TRANSOM	2		
NC14275		COMPLEMENTARY PROFILE	4		
-		GLASS STOP FRAME	4+4	 	
-		GLASS STOP SASH	2+2	 	
MA0170	WALL ADJUSTMENT		20-28		Acc. dimensions
MA0186	ANTI VIBRATION SPACER		6		
MA0200	TRACK GUIDE		1 (L-92[38 ⁵])		
MA0202	SASH CORNER KEY		8		
MA0203	ALIGNMENT CORNER KEY		8		
MA0205	PIN 3 ¹¹ / ₈ "X17 ¹¹ / ₈ "		16		
MA0206	SASH TOP MOULDED CORNER FOR MG067D		8		
MA0207	SASH BOTTOM MOULDED CORNER (PAIR)		4		
MA0210	WATER DRAINAGE BUSH		2-7		Acc. dimensions
MA0211	WATER DRAINAGE CAP		1		
MA0212	SASH EXTERIOR WEATHERSEAL CAPS		2		
MA0217	SASH TOP CENTERING DEVICE		8-20		Acc. dimensions
MA0226	PLATE FOR WALL ADJUSTMENT		20-28		Acc. dimensions
MA0237	SCREW 4.8 ¹¹ / ₈ "X10 ¹¹ / ₈ " RH WASHER HEAD		8		
MA0238	CORNER KEY		8		
MA0243	SASH INTERIOR WEATHERSEAL CAPS		2		
MA0290	GLASS SHIMMING BASE		16		
MA0293	CORNER KEY		8		
MA0294	FRAME BOTTOM EATHERSEAL CAPS		2		
MA0295	FRAME TOP WEATHERSEAL CAPS		2		
MA2807	CORNER KEY		4		
MA2810	CORNER KEY		8		
MA2844	SHEAR BLOCK		4		
MA2845	SHEAR BLOCK		4		
MA2864	PIN		8		
MA4564	GLASS STOP GASKET IN PIECES (30mm[1 ¹ / ₈ "])		36-60		Acc. dimensions
MA5550	PIN		28		
MA6337	PAN HEAD SCREW 4.2 ¹¹ / ₈ "X25[1"]		12-48		Acc. dimensions
MA7200	PIN SCREW		16		
MA7194	PLUGGING RUBBER FOR TRANSOM		4		
MA7197	GLASS SHIMMING BASE		6		
MA9144	WATER DRAINAGE VALVE		1		
MA9160	WATER DRAINAGE VALVE		4		
MA9174	BUFFER STOP WITH PAN HEAD SCREW 4.2 ¹¹ / ₈ "X22 ¹¹ / ₈ "		4		
MU0572	PAN HEAD SCREW 4.2 ¹¹ / ₈ "X9.5 ¹¹ / ₈ " (STANDARD configuration)		6-24		Acc. dimensions

Order lists

Frame 45°



For the correct dimensioning
of the sashes refer to:
-Static employment limits
-Executive limits of the hardware



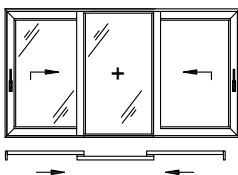
QUANTITY PER TYPOLOGY

CODE	GASKETS	QUANTITY	CUTTING			NOTES
STANDARD configuration						
MG042S	BRUSH GASKET	4	H-76 [3"]			
MG060P	SPACER FOR INTERLOCK PROFILE	4	H-76 [3"]			
MG063D	STROKE END GASKET	4	H-76 [3"]			
MG066D	SASH TOP WEATHERSEAL GASKET	4	L1			Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	8	4L1+4H			Indicative dimensions
MG068D	TRACK COVER	3	1L+2H			Indicative dimensions
MG187P	TRACK COVER	4	2L+2H			Indicative dimensions
---	EXTERNAL GLAZING GASKET	8	2L+6H			Indicative dimensions
---	INTERNAL GLAZING GASKET	8	2L+6H			Indicative dimensions
MG954P	SIDE FINISHING GASKET SASH	2	H-76 [3"]			
MG956D	GLASS STOP BEARING GASKET	2	L1			Indicative dimensions
PLUS configuration						
MG031T	EXTERNAL GLAZING GASKET	8	2L+6H			Indicative dimensions
---	INTERNAL GLAZING GASKET	8	2L+6H			Indicative dimensions
MG042S	BRUSH GASKET	4	H-76 [3"]			
MG060P	SPACER FOR INTERLOCK PROFILE	4	H-76 [3"]			
MG063D	STROKE END GASKET	4	H-76 [3"]			
MG066D	SASH TOP WEATHERSEAL GASKET	4	L1			Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	8	4L1+4H			Indicative dimensions
MG068D	TRACK COVER	3	1L+2H			Indicative dimensions
MG187P	TRACK COVER	4	2L+2H			Indicative dimensions
MG188E	INSULATING GASKET	6	2L1+4H			Indicative dimensions
MG190PS	UNDER-GLASS INSULATING GASKET	8	4L1+4H			Indicative dimensions
MG281PS	UNDERGLASS INSULATION	4	2L2+2H			Indicative dimensions
MG956D	GLASS STOP BEARING GASKET	2	L1			Indicative dimensions
	GLASS SASH	2	L1-165.5[6 ¹ / ₂ "] ---- H-244[9 ⁵ / ₈ "]			
	GLASS FRAME	1	L2-77 [3 ¹ / ₁₆ "] ---- H-68 [2 ¹ / ₁₆ "]			

Order lists

Frame 45°

MGU hardware

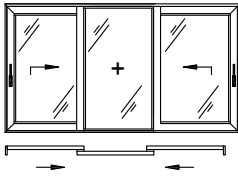
QUANTITY PER TYPOLOGY	
	

CODE	HANDLES		
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	2	
MA2984	KIT SCREWS + SQUARE SPINDLE	2	
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	2	
MA2984	KIT SCREWS + SQUARE SPINDLE	2	
MS3080	HALF CYLINDER	2	
INSIDE / OUTSIDE: HANDLE + CYLINDER			
MA2988	DOUBLE PULL HANDLE HS ESSENCE	2	
MA2985	KIT SCREWS + SQUARE SPINDLE	2	
MS3076	CYLINDER	2	
CODE	HARDWARE		
MA0183	LOCK KEEPER	4	H ≤ 1800 [5'10 ⁷ / ₈ "]
		6	H ≥ 1801 [5'10 ⁷ / ₈ "]
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	2	optional
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0215	LIFT-AND-SLIDE BASE SET 300 kg [660 lb]	2	
MA0227	EXTENSION KIT FOR LIFT-AND-SLIDE LOCK WITH KEEPER	2	3000mm[9'1 ¹ / ₈ "]≤H≤3230mm[10'7 ¹ / ₈ "]
MA9014	ANTI-SHOCK CAP	2	
MA9031	COVER	2	2730mm[8'11 ¹ / ₂ "]≤H≤3000mm[9'1 ¹ / ₈ "]
MA9032	VENTILATION KEEPER	2	
MA9051	LOCK E=47,5[1 ⁷ / ₈ "] H SASH= 855mm[2'9 ⁵ / ₈ "] -1275mm[4'2 ¹ / ₄ "]	2	
MA9052	LOCK E=47,5[1 ⁷ / ₈ "] H SASH= 1276mm[4'2 ¹ / ₄ "] -1855mm[6'1"]		
MA9053	LOCK E=47,5[1 ⁷ / ₈ "] H SASH= 1856mm[6'1"] -2355mm[7'8 ³ / ₄ "]		
MA9054	LOCK E=47,5[1 ⁷ / ₈ "] H SASH= 2356mm[7'8 ³ / ₄ "] -2755mm[7'8 ³ / ₄ "]		
MA9055	CONNECTING BAR SASH L=720mm[2'4 ³ / ₈ "]-1600mm[5'3"]	2	
MA9056	CONNECTING BAR SASH L=1601[5'3"]-1850mm[6'1 ¹ / ₈ "]		
MA9057	CONNECTING BAR SASH L=1851mm[6'1 ¹ / ₈ "]-2350[7'8 ¹ / ₂ "]		
MA9058	CONNECTING BAR SASH L=2350mm[7'8 ¹ / ₂ "]-3300mm[10'9 ⁹ / ₁₆ "]		
MA9079	LOCK SPRING FOR SASHES OVER 200 kg [440lb]	2	
MA9121	ANTI-LIFTING BLOCK	2	
MU0496	SELF TAPPING SCREW 3.5[1 ¹ / ₈ "]X20[3 ¹ / ₄ "]	4	
LIFTING-SLIDING SOLUTION FROM 300 kg [660lb] TO 400 kg [880lb]			
MA9078	KIT CARRIAGES LOAD CAPACITY 400 kg [880 lbs] (PAIR)	2	

Order lists

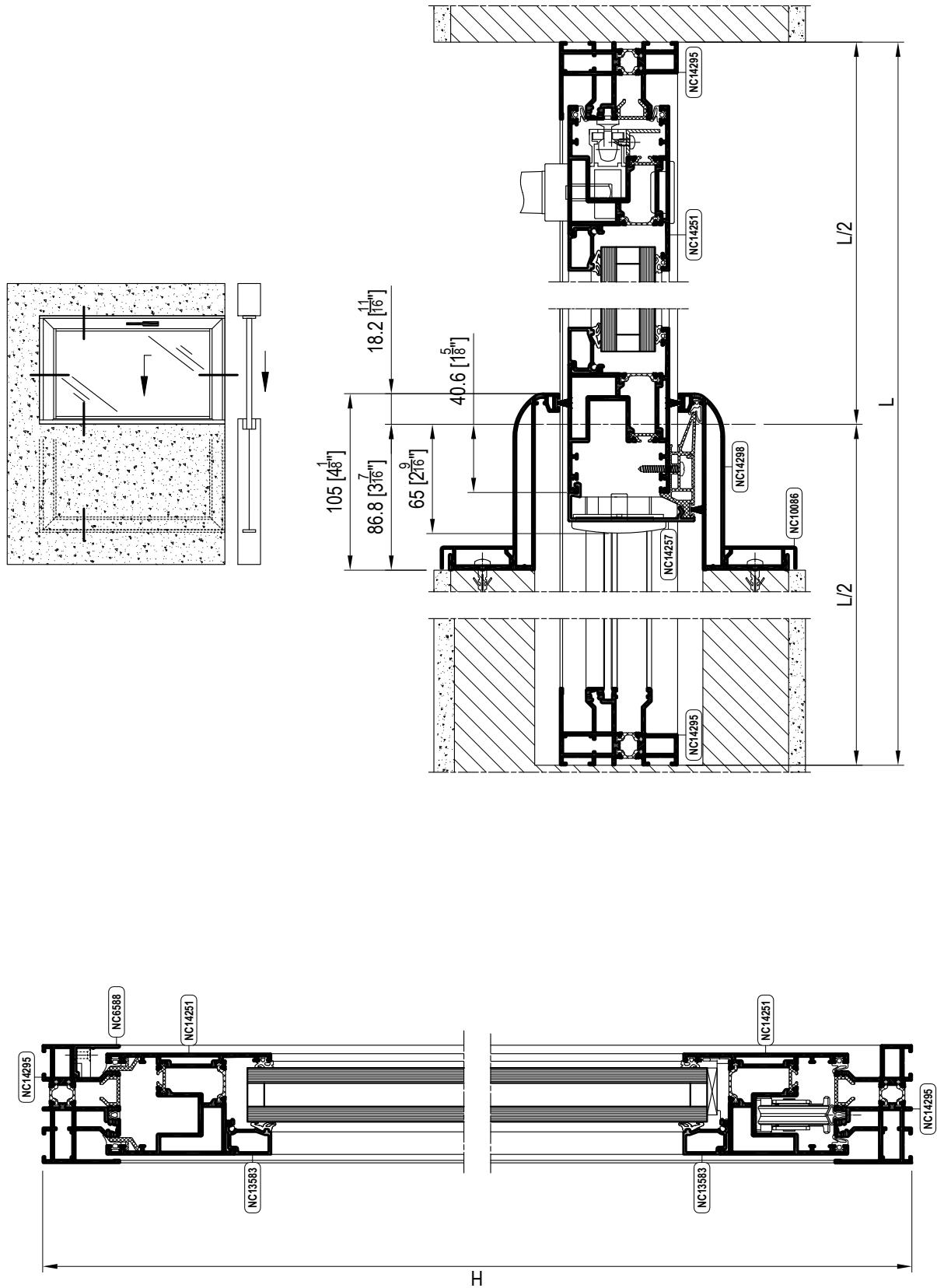
Frame 45°

MHA hardware

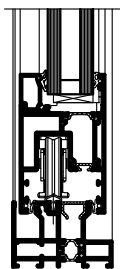
QUANTITY PER TYPOLOGY	
	

CODE	HANDLES		
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	2	
MA2984	KIT SCREWS + SQUARE SPINDLE	2	
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	2	
MA2984	KIT SCREWS + SQUARE SPINDLE	2	
MS3080	HALF CYLINDER	2	
INSIDE / OUTSIDE: HANDLE + CYLINDER			
MA2988	DOUBLE PULL HANDLE HS ESSENCE	2	
MA2985	KIT SCREWS + SQUARE SPINDLE	2	
MS3076	CYLINDER	2	
CODE	HARDWARE		
MA0154	SHIM FOR EXTENSION MA0155	2	$2700.1[\frac{5}{16}] \leq H \leq 3300 \text{ mm}[\frac{15}{16}]$
MA0155	EXTENSION FOR LOCK COMPLETE WITH LOCKING POINTS	2	$2700.1[\frac{5}{16}] \leq H \leq 3300 \text{ mm}[\frac{15}{16}]$
MA0190	KIT HS SOFT LIFT (CANNOT BE USED WITH LOCK MA0194)	2	optional
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	2	optional
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0198	LOCK KEEPER	4	$H \leq 1800 \text{ mm} [\frac{7}{8}]$
		6	$H \geq 1801 \text{ mm} [\frac{7}{8}]$
		2	
MA0193	LIFT-AND-SLIDE BASE SET 330 kg [727 lb]	2	
MA9117	ANTI-SHOCK CAP	2	
MA9118	VENTILATION KEEPER	2	
MA0194	LOCK H SASH= 1200mm[3'11 $\frac{1}{4}$ "]-1800mm[5'10 $\frac{7}{8}$ "]	2	
MA0195	LOCK H SASH= 1801mm[5'10 $\frac{7}{8}$ "]-2100mm[5'10 $\frac{5}{8}$ "]		
MA0196	LOCK H SASH= 2101mm[5'10 $\frac{5}{8}$ "]-2400mm[7'10 $\frac{1}{2}$ "]		
MA0197	LOCK H SASH= 2401[7'10 $\frac{1}{2}$ "]-2700mm[8'10 $\frac{1}{4}$ "]		
MA9105	CONNECTING BAR SASH L=720mm[2'4 $\frac{3}{8}$ "]-1500mm[4'11"]	2	
MA9106	CONNECTING BAR SASH L=1501mm[4'11"]-2000mm[6'6 $\frac{3}{4}$ "]		
MA9107	CONNECTING BAR SASH L=2001mm[6' 6 $\frac{3}{4}$ "]-2500mm[8'2 $\frac{3}{8}$ "]		
MA9108	CONNECTING BAR SASH L=2501mm[8'2 $\frac{3}{8}$ "]-3265mm[10'8 $\frac{1}{2}$ "]		
MA9121	ANTI-LIFTING BLOCK	2	
MA0185	LATCH FOR LOCK MA0194	4	
	LATCH FOR LOCK MA0195	6	
	LATCH FOR LOCK MA0196	6	
	LATCH FOR LOCK MA0197	6	
	LATCH FOR EXTENSION MA0155	2	2700.1≤ H ≤ 3300 mm
MU0496	SCREW FH 3.5[$\frac{11}{16}$ "]X20[$\frac{3}{4}$ "]	4	
MA0182	VENTILATION LATCH	2	if necessary
	LIFTING-SLIDING SOLUTION FROM 330 kg [727 lbs] TO 440 kg [970 lbs]		
MA0172	KIT CARRIAGES LOAD CAPACITY 440 kg [970 lbs] (PAIR)	2	

Order lists
1 sash sliding in the wall
Frame 45°

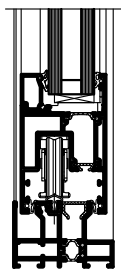


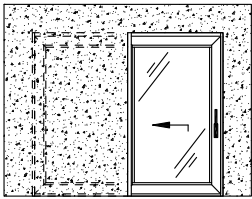
Frame 45°



Order lists

Frame 45°



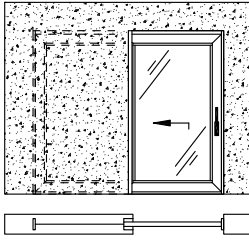
QUANTITY PER TYPOLOGY	
	For the correct dimensioning of the sashes refer to: -Static employment limits -Executive limits of the hardware

CODE	GASKETS	QUANTITY	CUTTING	NOTES
STANDARD configuration				
MG042S	BRUSH GASKET	2 + 1	H ---- H-76 [3"]	
MG060P	SPACER FOR INTERLOCK PROFILE	1	H-76 [3"]	
MG063D	STROKE END GASKET	1	H	
MG066D	SASH TOP WEATHERSEAL GASKET	2	L/2	Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	4	2L/2+2H	Indicative dimensions
MG068D	TRACK COVER	2	1L+1H	Indicative dimensions
MG187P	TRACK COVER	3	2L+1H	Indicative dimensions
MG386D	EXTERNAL GLAZING GASKET	4	2L/2+2H	Indicative dimensions
---	INTERNAL GLAZING GASKET	4	2L/2+2H	Indicative dimensions
MG954P	SIDE FINISHING GASKET SASH	1	H-76 [3"]	
PLUS configuration				
MG031T	EXTERNAL GLAZING GASKET	4	2L/2+2H	Indicative dimensions
---	INTERNAL GLAZING GASKET	4	2L/2+2H	Indicative dimensions
MG042S	BRUSH GASKET	2 + 1	H ---- H-76 [3"]	
MG060P	SPACER FOR INTERLOCK PROFILE	1	H-76 [3"]	
MG063D	STROKE END GASKET	1	H	
MG066D	SASH TOP WEATHERSEAL GASKET	2	L/2	Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	4	2L/2+2H	Indicative dimensions
MG068D	TRACK COVER	2	1L+1H	Indicative dimensions
MG187P	TRACK COVER	3	2L+1H	Indicative dimensions
MG188E	INSULATING GASKET	3	1L/2+2H	Indicative dimensions
MG190PS	UNDER-GLASS INSULATING GASKET	4	2L/2+2H	Indicative dimensions
	GLASS	1	L/2-165.5 ¹ [62"] ---- H-244 ⁵ [96"]	

Order lists

Frame 45°

MGU hardware

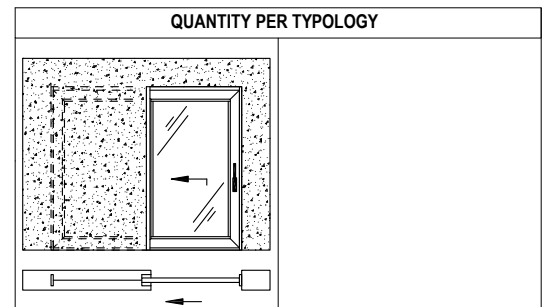
QUANTITY PER TYPOLOGY	
	

CODE	HANDLES		
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	1	
MA2984	KIT SCREWS + SQUARE SPINDLE	1	
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	1	
MA2984	KIT SCREWS + SQUARE SPINDLE	1	
MS3080	HALF CYLINDER	1	
INSIDE / OUTSIDE: HANDLE + CYLINDER			
MA2988	DOUBLE PULL HANDLE HS ESSENCE	1	
MA2985	KIT SCREWS + SQUARE SPINDLE	1	
MS3076	CYLINDER	1	
CODE	HARDWARE		
MA0183	LOCK KEEPER	2	$H \leq 1755 [5'9\frac{1}{8}"]$
		3	$H \geq 1756 [5'9\frac{1}{8}"]$
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	1	optional
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0215	LIFT-AND-SLIDE BASE KIT 300 kg [660 lb]	1	
MA0227	EXTENSION KIT FOR LIFT-AND-SLIDE LOCK	1	
MA9014	ANTI-SHOCK CAP	1	$3000\text{mm}[9'1\frac{1}{8}"] \leq H \leq 3230\text{mm}[10'7\frac{1}{8}"]$
MA9031	COVER	1	
MA9032	KEEPER FASTENER	1	$2730\text{mm}[8'11\frac{1}{2}"] \leq H \leq 3000\text{mm}[9'1\frac{1}{8}"]$
MA9051	LOCK E=47,5[1 $\frac{7}{8}$ "] H SASH= 855mm[2'9 $\frac{5}{8}$ "] -1275mm[4'2 $\frac{1}{4}$ "]	1	
MA9052	LOCK E=47,5[1 $\frac{7}{8}$ "] H SASH= 1276mm[4'2 $\frac{1}{4}$ "] -1855mm[6'1"]		
MA9053	LOCK E=47,5[1 $\frac{7}{8}$ "] H SASH= 1856mm[6'1"] -2355mm[7'8 $\frac{3}{4}$ "]		
MA9054	LOCK E=47,5[1 $\frac{7}{8}$ "] H SASH= 2356mm[7'8 $\frac{3}{4}$ "] -2755mm[7'8 $\frac{3}{4}$ "]		
MA9055	CONNECTING BAR SASH L=720mm[2'4 $\frac{3}{8}$ "]-1600mm[5'3"]	1	
MA9056	CONNECTING BAR SASH L=1601[5'3"]-1850mm[6'1 $\frac{1}{8}$ "]		
MA9057	CONNECTING BAR SASH L=1851mm[6'1 $\frac{1}{8}$ "]-2350[7'8 $\frac{1}{2}$ "]		
MA9058	CONNECTING BAR SASH L=2350mm[7'8 $\frac{1}{2}$ "]-3300mm[10'9 $\frac{7}{8}$ "]		
MA9079	LOCK SPRING FOR SASHES OVER 200 kg [440lb]	1	
MA9121	ANTI-LIFTING BLOCK	1	
MU0496	SELF TAPPING SCREW 3.5[$\frac{1}{8}$ "]X20[$\frac{3}{4}$ "]	2	
LIFTING-SLIDING SOLUTION FROM 300 kg [660lb] TO 400 kg [880lb]			
MA9078	KIT CARRIAGES LOAD CAPACITY 400 kg [880 lbs] (PAIR)	1	

Order lists

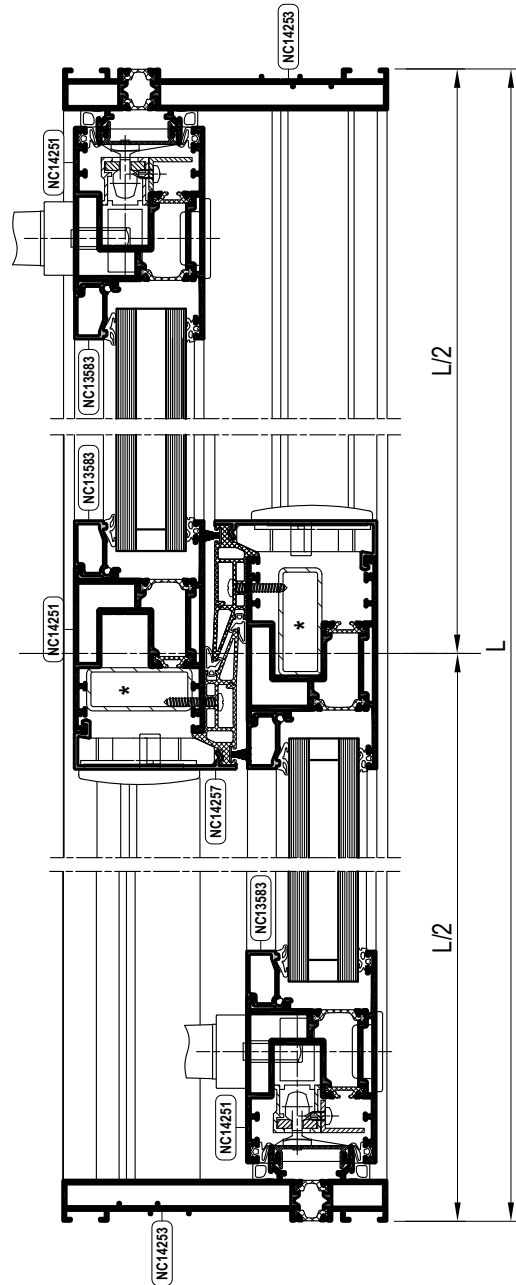
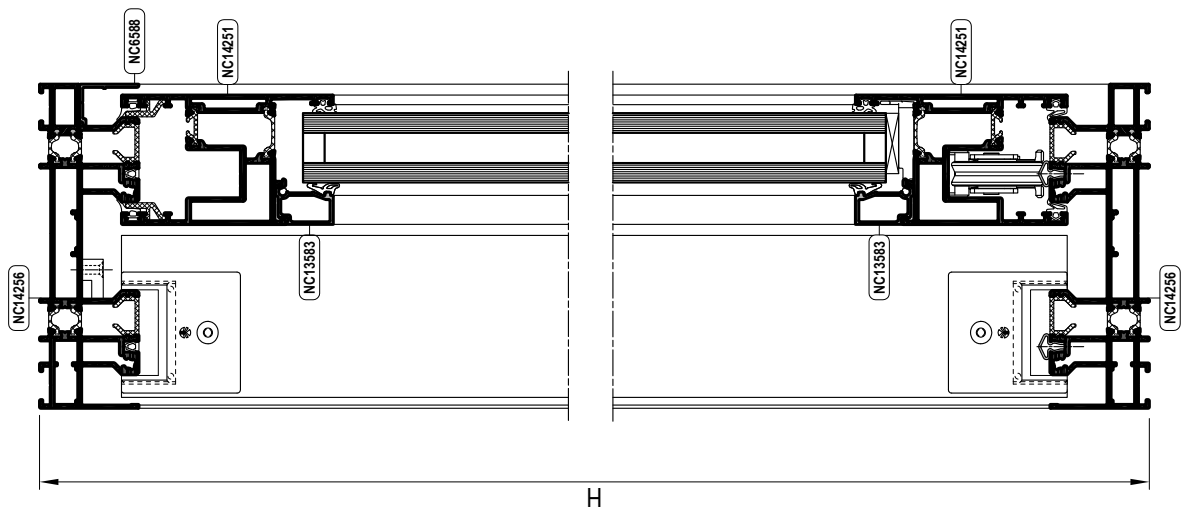
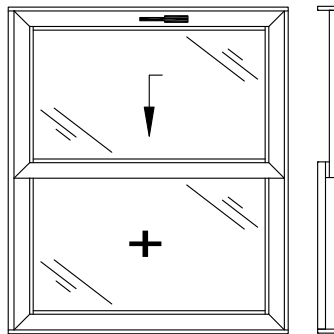
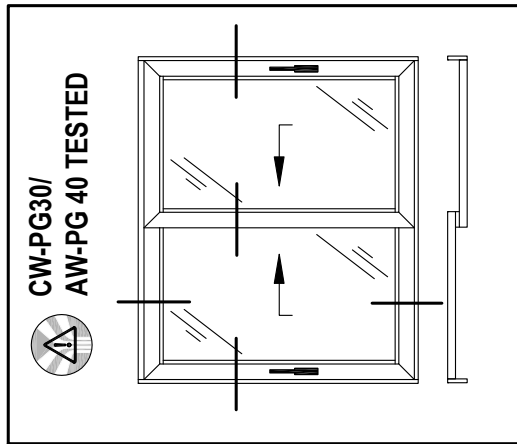
Frame 45°

MHA hardware



		QUANTITY PER TYPOLOGY	
CODE	HANDLES		
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	1	
MA2984	KIT SCREWS + SQUARE SPINDLE	1	
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	1	
MA2984	KIT SCREWS + SQUARE SPINDLE	1	
MS3080	HALF CYLINDER	1	
INSIDE / OUTSIDE: HANDLE + CYLINDER			
MA2988	DOUBLE PULL HANDLE HS ESSENCE	1	
MA2985	KIT SCREWS + SQUARE SPINDLE	1	
MS3076	CYLINDER	1	
CODE	HARDWARE		
MA0154	SHIM FOR EXTENSION MA0155	1	$2700.1[106\frac{5}{16}] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}]$
MA0155	EXTENSION FOR LOCK COMPLETE WITH LOCKING POINTS	1	$2700.1[106\frac{5}{16}] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}]$
MA0190	KIT HS SOFT LIFT (CANNOT BE USED WITH LOCK MA0194)	1	optional
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	1	optional
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0198	LOCK KEEPER	2	$H \leq 1800 \text{ mm}[70\frac{7}{8}]$
		3	$H \geq 1801 \text{ mm}[70\frac{7}{8}]$
		1	$2700.1[106\frac{5}{16}] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}]$
MA0193	LIFT-AND-SLIDE BASE SET 330 kg [727 lb]	1	
MA9117	ANTI-SHOCK CAP	1	
MA9118	VENTILATION KEEPER	1	
MA0194	LOCK H SASH= 1200mm[3'11 $\frac{1}{4}$ "]-1800mm[5'10 $\frac{3}{8}$ "]	1	
MA0195	LOCK H SASH= 1801mm[5'10 $\frac{3}{8}$ "]-2100mm[5'10 $\frac{3}{8}$ "]		
MA0196	LOCK H SASH= 2101mm[5'10 $\frac{3}{8}$ "]-2400mm[7'10 $\frac{1}{2}$ "]		
MA0197	LOCK H SASH= 2401[7'10 $\frac{1}{2}$ "]-2700mm[8'10 $\frac{1}{4}$ "]		
MA9105	CONNECTING BAR SASH L=720mm[2'4 $\frac{3}{8}$ "]-1500mm[4'11"]	1	
MA9106	CONNECTING BAR SASH L=1501mm[4'11"]-2000mm[6'6 $\frac{3}{4}$ "]		
MA9107	CONNECTING BAR SASH L=2001mm[6'6 $\frac{3}{4}$ "]-2500mm[8'2 $\frac{3}{8}$ "]		
MA9108	CONNECTING BAR SASH L=2501mm[8'2 $\frac{3}{8}$ "]-3265mm[10'8 $\frac{1}{2}$ "]		
MA9121	ANTI-LIFTING BLOCK	1	
MA0185	LATCH FOR LOCK MA0194	2	
	LATCH FOR LOCK MA0195	3	
	LATCH FOR LOCK MA0196	3	
	LATCH FOR LOCK MA0197	3	
	LATCH FOR EXTENSION MA0155	1	$2700.1[106\frac{5}{16}] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}]$
MU0496	SCREW FH 3.5[$\frac{11}{16}$ "]X20[$\frac{3}{4}$ "]	2	
MA0182	VENTILATION LATCH	1	if necessary
LIFTING-SLIDING SOLUTION FROM 330 kg [727 lbs] TO 440 kg [970 lbs]			
MA0172	KIT CARRIAGES LOAD CAPACITY 440 kg [970 lbs] (PAIR)	1	

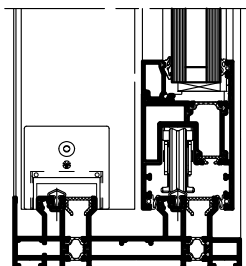
Order lists
2 sashes on 2 tracks
Frame 90°



* Use reinforcement tube MA2723 for AW-PG 40

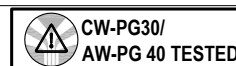
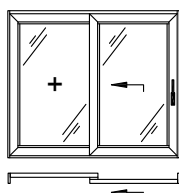
Order lists

Frame 90°

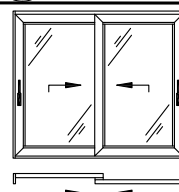


For the correct dimensioning of the sashes refer to:
-Static employment limits
-Executive limits of the hardware

QUANTITY PER TYPOLOGY



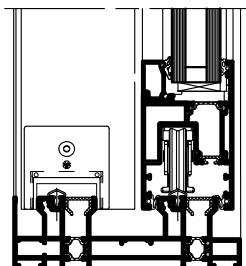
CW-PG30/
AW-PG 40 TESTED



CODE	PROFILES	DESCRIPTION	QUANTITY	CUTTING	QUANTITY	CUTTING	NOTES
NC14253		FRAME	2	H	2	H	
NC14256		FRAME	2	L-38[1½"]	2	L-38[1½"]	
NC14251		SASH	4+4	L/2+13.5[⁹ / ₁₆ "] H-76[3"]	4+4	L/2+13.5[⁹ / ₁₆ "] H-76[3"]	
NC14257		INTERLOCK PROFILE	2	H-76[3"]	2	H-76[3"]	
NC14263		COMPLEMENTARY PROFILE	1	L/2-76.5[3"]	-	-	If necessary
NC6588		DRIP	1	L-38[1½"]	1	L-38[1½"]	
-		GLASS STOP	4+4	L/2-138.5[5 ⁷ / ₁₆ "] H-272[10 ¹¹ / ₁₆ "]	4+4	L/2-138.5[5 ¹ / ₂ "] H-272[10 ¹¹ / ₁₆ "]	
CODE	ACCESSORIES		QUANTITY		QUANTITY		NOTES
MA0170	WALL ADJUSTMENT		20-28		20-28		Acc. dimensions
MA0186	ANTI VIBRATION SPACER		6		6		
MA0200	TRACK GUIDE		1 (L-38[1½"])		2 (L-38[1½"])		
MA0202	SASH CORNER KEY		8		8		
MA0203	ALIGNMENT CORNER KEY		8		8		
MA0205	PIN 3[¹ / ₈ "]X17[⁵ / ₈ "]		16		16		
MA0206	SASH TOP MOULDED CORNER FOR MG067D		8		8		
MA0207	SASH BOTTOM MOULDED CORNER (PAIR)		4		4		
MA0210	WATER DRAINAGE BUSH		2-7		2-7		Acc. dimensions
MA0211	WATER DRAINAGE CAP		1		1		
MA0212	SASH EXTERIOR WEATHERSEAL CAPS		2		2		
MA0217	SASH TOP CENTERING DEVICE		4-10		8-20		Acc. dimensions
MA0223	SUPPORT FOR FIXED SASH		3		-		
MA0224	SUPPORT FOR FIXED SASH		2		-		
MA0225	PLATE FOR MA0223		1		-		
MA0226	FASTENING WASHER		20-28		20-28		Acc. dimensions
MA0229	ANTI-SHOCK CAP		4		8		
MA0237	SCREW 4.8[¹ / ₄ "]X10[⁵ / ₈ "] RH WASHER HEAD		4		4		
MA0238	CORNER KEY		8		8		
MA0240	SELF ADHESIVE PAD		2		2		
MA0243	SASH INTERIOR WEATHERSEAL CAPS		1		1		
MA0247	FRAME BOTTOM EATHERSEAL CAPS		1		1		
MA0248	FRAME TOP WEATHERSEAL CAPS		1		1		
MA0290	GLASS SHIMMING BASE		16		16		
MA2723	INTERNAL REINFORCEMENT TUBE		-		?		
MA4564	GLASS STOP GASKET IN PIECES (30mm[1 ¹ / ₈ "])		24-40		24-40		Acc. dimensions
MA5550	PIN		16		16		
MA6337	PAN HEAD SCREW 4.2[¹ / ₈ "]X25[1"]		6-24		6-24		Acc. dimensions
MA9144	WATER DRAINAGE VALVE		1		1		
MA9160	WATER DRAINAGE VALVE		2		2		
MU0541	BUFFER STOP WITH PAN HEAD SCREW 4.2[¹ / ₈ "]X22[⁷ / ₈ "]		8		8		
MU0572	PAN HEAD SCREW 4.2[¹ / ₈ "]X9.5[³ / ₈ "] (STANDARD configuration)		3-12		6-24		Acc. dimensions
MU0706	SELF-TAPPING PAN HEAD SCREW 4.8[¹ / ₂ "]X16[⁵ / ₈ "]		13		-		

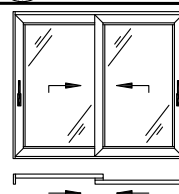
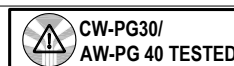
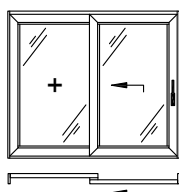
Order lists

Frame 90°



For the correct dimensioning of the sashes refer to:
-Static employment limits
-Executive limits of the hardware

QUANTITY PER TYPOLOGY

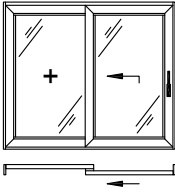
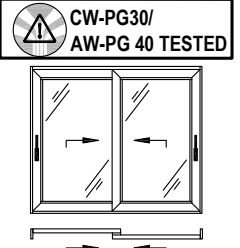


CODE	GASKETS	QUANTITY	CUTTING	QUANTITY	CUTTING	NOTES
STANDARD configuration						
MG040D	STROKE END GASKET	4	H-76 [3"]	4	H-76 [3"]	
MG042S	BRUSH GASKET	1 + 2	L/2-76 ---- H-76 [3"]	2	H-76 [3"]	
MG060P	SPACER FOR INTERLOCK PROFILE	2	H-76 [3"]	2	H-76 [3"]	
MG061P	JAMB COVER	1	H-92[3 ⁵ / ₈ "]	2	H-92[3 ⁵ / ₈ "]	
MG063D	STROKE END GASKET	2	H-76 [3"]	2	H-76 [3"]	
MG066D	SASH TOP WEATHERSEAL GASKET	2	L	2	L	Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	6	2L+4H	6	2L+4H	Indicative dimensions
MG068D	TRACK COVER	2	L-38[1 ¹ / ₂ "]	2	L-38[1 ¹ / ₂ "]	
MG187P	TRACK COVER	3	L-38[1 ¹ / ₂ "]	4	L-38[1 ¹ / ₂ "]	
MG386D	EXTERNAL GLAZING GASKET	6	2L+4H	6	2L+4H	Indicative dimensions
---	INTERNAL GLAZING GASKET	6	2L+4H	6	2L+4H	Indicative dimensions
MG671D	SPACER GASKET	1	L/2-76	-	-	If necessary
MG954P	SIDE FINISHING GASKET SASH	1	H-76 [3"]	2	H-76 [3"]	
PLUS configuration						
MG031T	EXTERNAL GLAZING GASKET	6	2L+4H	6	2L+4H	Indicative dimensions
---	INTERNAL GLAZING GASKET	6	2L+4H	6	2L+4H	Indicative dimensions
MG040D	STROKE END GASKET	4	H-76 [3"]	4	H-76 [3"]	
MG042S	BRUSH GASKET	1 + 2	L/2-76 ---- H-76 [3"]	2	H-76 [3"]	
MG060P	SPACER FOR INTERLOCK PROFILE	2	H-76 [3"]	2	H-76 [3"]	
MG061P	JAMB COVER	1	H-92[3 ⁵ / ₈ "]	2	H-92[3 ⁵ / ₈ "]	
MG063D	STROKE END GASKET	2	H-76 [3"]	2	H-76 [3"]	
MG066D	SASH TOP WEATHERSEAL GASKET	2	L	2	L	Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	6	2L+4H	6	2L+4H	Indicative dimensions
MG068D	TRACK COVER	2	L-38[1 ¹ / ₂ "]	2	L-38[1 ¹ / ₂ "]	
MG187P	TRACK COVER	3	L-38[1 ¹ / ₂ "]	4	L-38[1 ¹ / ₂ "]	
MG188E	INSULATING GASKET	5	1L+4H	5	1L+4H	Indicative dimensions
MG189PS	INSULATING GASKET	2	H	2	H	
MG190PS	UNDER-GLASS INSULATING GASKET	6	2L+4H	6	2L+4H	Indicative dimensions
MG671D	SPACER GASKET	1	L/2-76 [3"]	-	-	If necessary
	GLASSES	2	L/2-154.5[6 ¹ / ₁₆ "] ---- H-244[9 ⁵ / ₈ "]	2	L/2-154.5[6 ¹ / ₁₆ "] ---- H-244[9 ⁵ / ₈ "]	

Order lists

Frame 90°

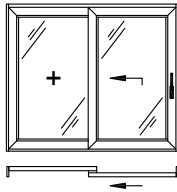
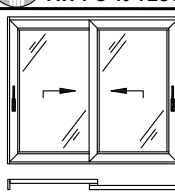
MGU hardware

		QUANTITY PER TYPOLOGY	
			
CODE	HANDLES		
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	1	2
MA2984	KIT SCREWS + SQUARE SPINDLE	1	2
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	1	2
MA2984	KIT SCREWS + SQUARE SPINDLE	1	2
MS3080	HALF CYLINDER	1	2
INSIDE / OUTSIDE: HANDLE + CYLINDER			
MA2988	DOUBLE PULL HANDLE HS ESSENCE	1	2
MA2985	KIT SCREWS + SQUARE SPINDLE	1	2
MS3076	CYLINDER	1	2
CODE	HARDWARE		
MA0183	LOCK KEEPER	2	H ≤ 1855 mm[6'1"] 4
		3	H ≥ 1856 mm[6'1"] 6
MA0188	KEEPER SUPPORT	2	H ≤ 1855 mm[6'1"] 4
		3	H ≥ 1856 mm[6'1"] 6
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	1	optional 2
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0215	LIFT-AND-SLIDE BASE SET 300 kg [660 lb]	1	2
MA0227	EXTENSION KIT FOR LIFT-AND-SLIDE LOCK WITH KEEPER	1	3000mm[9'11 1/8"] ≤ H ≤ 3230mm[10'7 1/8"] 2
MA0298	KEEPER FASTENER	2	H ≤ 1855 mm[6'1"] 4
		3	H ≥ 1856 mm[6'1"] 6
MA9014	ANTI-SHOCK CAP	1	1
MA9031	COVER	1	2730mm[8'11 1/2"] ≤ H ≤ 3000mm[9'10 1/8"] 2
MA9032	VENTILATION KEEPER	1	2
MA9051	LOCK E=47,5[1 7/8"] H SASH= 855mm[2'9 3/8"] -1275mm[4'2 1/4"]	1	2
MA9052	LOCK E=47,5[1 7/8"] H SASH= 1276mm[4'2 1/4"] -1855mm[6'1"]		
MA9053	LOCK E=47,5[1 7/8"] H SASH= 1856mm[6'1"] -2355mm[7'8 3/4"]		
MA9054	LOCK E=47,5[1 7/8"] H SASH= 2356mm[7'8 3/4"] -2755mm[9'0 3/4"]		
MA9055	CONNECTING BAR SASH L=720mm[2'4 3/8"]-1600mm[5'3"]	1	2
MA9056	CONNECTING BAR SASH L=1601[5'3"]-1850mm[6'1 1/8"]		
MA9057	CONNECTING BAR SASH L=1851mm[6'1 1/8"]-2350[7'8 1/2"]		
MA9058	CONNECTING BAR SASH L=2350mm[7'8 1/2"]-3300mm[10'9 7/8"]		
MA9079	LOCK SPRING FOR SASHES OVER 200 kg [440lb]	1	2
MA9121	ANTI-LIFTING BLOCK	1	2
MU0496	SELF TAPPING SCREW 3.5[1 1/8"]X20[3 1/4"]	2	4
LIFTING-SLIDING SOLUTION FROM 300 kg [660lb] TO 400 kg [880lb]			
MA9078	KIT CARRIAGES LOAD CAPACITY 400 kg [880 lbs] (PAIR)	1	2

Order lists

Frame 90°

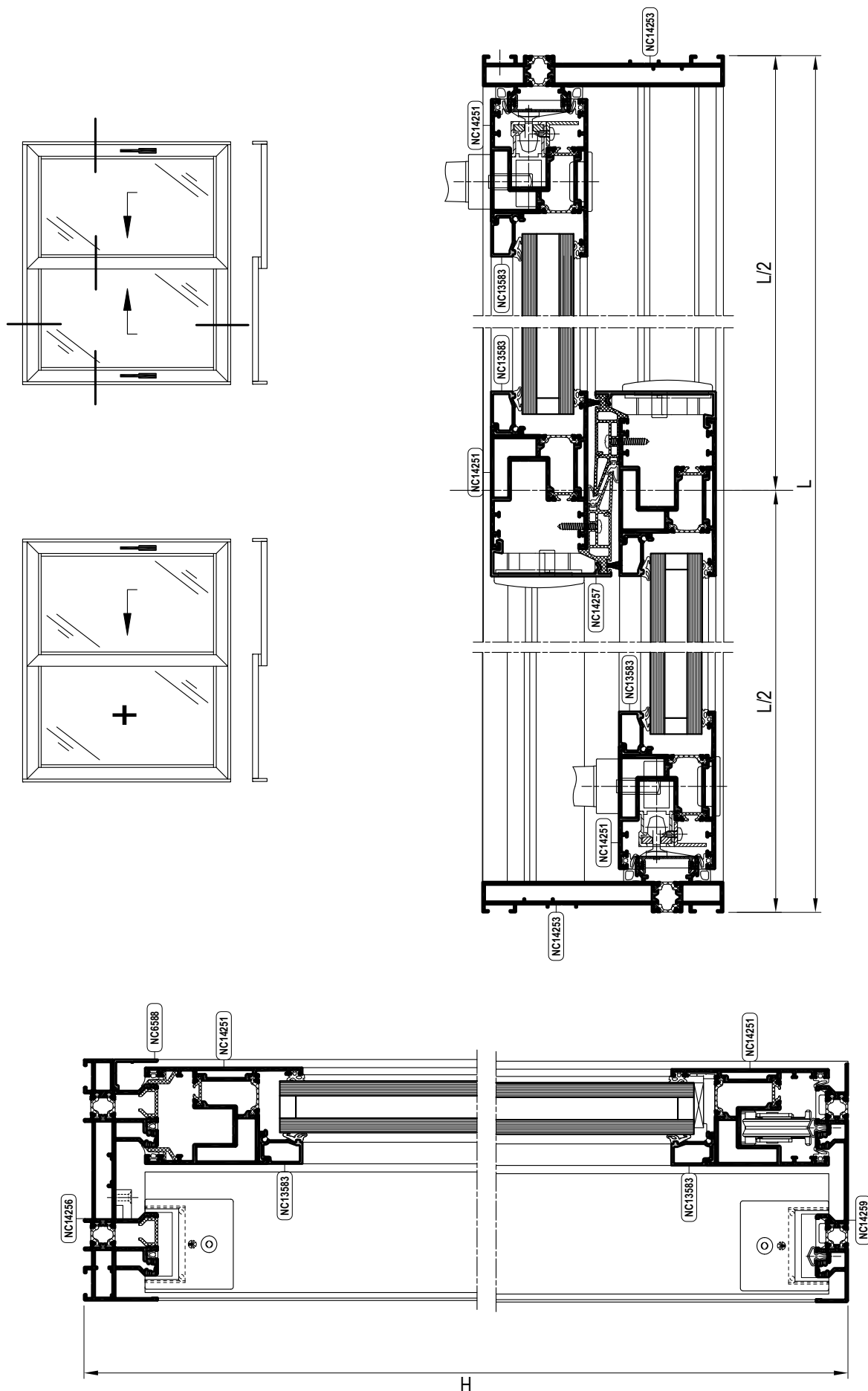
MHA hardware

MHA hardware		QUANTITY PER TYPOLOGY	
			
		 CW-PG30/ AW-PG 40 TESTED	
CODE	HANDLES		
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	1	2
MA2984	KIT SCREWS + SQUARE SPINDLE	1	2
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	1	2
MA2984	KIT SCREWS + SQUARE SPINDLE	1	2
MS3080	HALF CYLINDER	1	2
INSIDE / OUTSIDE: HANDLE + CYLINDER			
MA2988	DOUBLE PULL HANDLE HS ESSENCE	1	2
MA2985	KIT SCREWS + SQUARE SPINDLE	1	2
MS3076	CYLINDER	1	2
CODE	HARDWARE		
MA0154	SHIM FOR EXTENSION MA0155	1	$2700.1[106\frac{5}{8}]\leq H\leq 3300\text{ mm}[129\frac{15}{8}]$ 2
MA0155	EXTENSION FOR LOCK COMPLETE WITH LOCKING POINTS	1	$2700.1[106\frac{5}{8}]\leq H\leq 3300\text{ mm}[129\frac{15}{8}]$ 2
MA0190	KIT HS SOFT LIFT (CANNOT BE USED WITH LOCK MA0194)	1	optional 2
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	1	optional 2
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0198	LOCK KEEPER	2	$H\leq 1800\text{ mm}[70\frac{7}{8}]$ 4
		3	$H\geq 1801\text{ mm}[70\frac{7}{8}]$ 6
		1	$2700.1[106\frac{5}{8}]\leq H\leq 3300\text{ mm}[129\frac{15}{8}]$ 2
MA0193	LIFT-AND-SLIDE BASE SET 330 kg [727 lb]	1	2
MA9117	ANTI-SHOCK CAP	1	1
MA9118	VENTILATION KEEPER	1	2
MA0194	LOCK H SASH= 1200mm[3'11 $\frac{1}{4}$ "]-1800mm[5'10 $\frac{3}{8}$ "]	1	2
MA0195	LOCK H SASH= 1801mm[5'10 $\frac{7}{8}$ "]-2100mm[5'10 $\frac{3}{8}$ "]		
MA0196	LOCK H SASH= 2101mm[5'10 $\frac{3}{8}$ "]-2400mm[7'10 $\frac{1}{2}$ "]		
MA0197	LOCK H SASH= 2401[7'10 $\frac{1}{2}$ "]-2700mm[8'10 $\frac{1}{4}$ "]		
MA0298	KEEPER FASTENER	2	$H\leq 1800\text{ mm}[70\frac{7}{8}]$ 4
		3	$H\geq 1801\text{ mm}[70\frac{7}{8}]$ 6
		1	$2700.1[106\frac{5}{8}]\leq H\leq 3300\text{ mm}[129\frac{15}{8}]$ 2
MA9105	CONNECTING BAR SASH L=720mm[2'4 $\frac{3}{8}$ "]-1500mm[4'11"]	1	2
MA9106	CONNECTING BAR SASH L=1501mm[4'11"]-2000mm[6'6 $\frac{3}{4}$ "]		
MA9107	CONNECTING BAR SASH L=2001mm[6'6 $\frac{3}{8}$ "]-2500mm[8'2 $\frac{3}{8}$ "]		
MA9108	CONNECTING BAR SASH L=2501mm[8'2 $\frac{3}{8}$ "]-3265mm[10'8 $\frac{1}{2}$ "]		
MA9121	SASH ANTI-LIFTING BLOCK	1	2
MA0185	LATCH FOR LOCK MA0194	2	4
	LATCH FOR LOCK MA0195	3	6
	LATCH FOR LOCK MA0196	3	6
	LATCH FOR LOCK MA0197	3	6
	LATCH FOR EXTENSION MA0155	1	$2700.1[106\frac{5}{8}]\leq H\leq 3300\text{ mm}[129\frac{15}{8}]$ 2
MU0496	SCREW FH 3.5[$\frac{1}{8}$ "]X20[$\frac{3}{4}$ "]	2	2
MA0182	VENTILATION LATCH	1	if necessary 2
LIFTING-SLIDING SOLUTION FROM 330 kg [727 lbs] TO 440 kg [970 lbs]			
MA0172	KIT CARRIAGES LOAD CAPACITY 440 kg [970 lbs] (PAIR)	1	2

Order lists

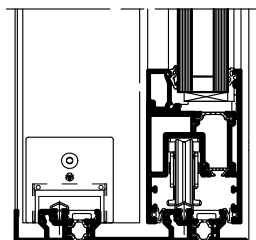
2 sashes on 2 racks with reduced sill

Frame 90°



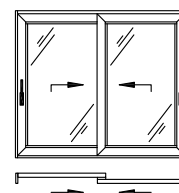
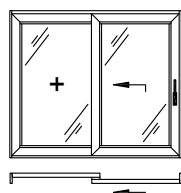
Order lists

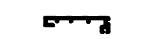
Frame 90°



For the correct dimensioning of the sashes refer to:
 -Static employment limits
 -Executive limits of the hardware

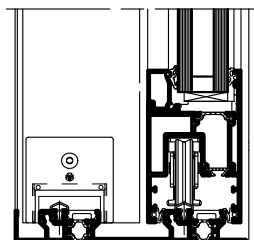
QUANTITY PER TYPOLOGY



CODE	PROFILES	DESCRIPTION	QUANTITY	CUTTING	QUANTITY	CUTTING	NOTES
NC14253		FRAME	2	H	2	H	
NC14256		FRAME	1	L-38[1½"]	1	L-38[1½"]	
NC14259		FRAME	1	L-38[1½"]	1	L-38[1½"]	
NC14251		SASH	4+4	L/2+13.5[5⅞"] H-50[1½"]	4+4	L/2+13.5[5⅞"] H-50[1½"]	
NC14257		INTERLOCK PROFILE	2	H-50[1½"]	2	H-50[1½"]	
NC14263		COMPLEMENTARY PROFILE	1	L/2-76.5[3"]	-	-	If necessary
NC6588		DRIP	1	L-38[1½"]	1	L-38[1½"]	
-		GLASS STOP	4+4	L/2-138.5[5⅞"] H-246[9½"]	4+4	L/2-138.5[5⅞"] H-246[9½"]	
CODE	ACCESSORIES		QUANTITY		QUANTITY		NOTES
MA0170	WALL ADJUSTMENT		20-28		20-28		Acc. dimensions
MA0186	ANTI VIBRATION SPACER		6		6		
MA0200	TRACK GUIDE		1 (L-38[1½"])		2 (L-38[1½"])		
MA0202	SASH CORNER KEY		8		8		
MA0203	ALIGNMENT CORNER KEY		8		8		
MA0205	PIN 3[11⁄16"]X17[11⁄16"]		16		16		
MA0206	SASH TOP MOULDED CORNER FOR MG067D		8		8		
MA0207	SASH BOTTOM MOULDED CORNER (PAIR)		4		4		
MA0212	SASH EXTERIOR WEATHERSEAL CAPS		2		2		
MA0217	SASH TOP CENTERING DEVICE		4-10		8-20		Acc. dimensions
MA0223	SUPPORT FOR FIXED SASH		3		-		
MA0224	SUPPORT FOR FIXED SASH		2		-		
MA0225	PLATE FOR MA0223		1		-		
MA0226	FASTENING WASHER		20-28		20-28		Acc. dimensions
MA0229	ANTI-SHOCK CAP		4		8		
MA0237	SCREW 4.8[11⁄16"]X10[11⁄16"] RH WASHER HEAD		4		4		
MA0238	CORNER KEY		8		8		
MA0243	SASH INTERIOR WEATHERSEAL CAPS		1		1		
MA0245	SELF ADHESIVE PAD		2		2		
MA0248	FRAME BOTTOM EATHERSEAL CAPS		1		1		
MA0249	FRAME TOP WEATHERSEAL CAPS		1		1		
MA0290	GLASS SHIMMING BASE		16		16		
MA4564	GLASS STOP GASKET IN PIECES (30mm[1¼"])		24-40		24-40		Acc. dimensions
MA5550	PIN		16		16		
MA6337	PAN HEAD SCREW 4.2[11⁄16"]X25[1"]		6-24		6-24		Acc. dimensions
MA9163	WATER DRAINAGE VALVE		2		2		
MA9164	EXTENSION FOR MA9163		2		2		
MU0541	BUFFER STOP WITH PAN HEAD SCREW 4.2[11⁄16"]X22[7⁄8"]		8		8		
MU0572	PAN HEAD SCREW 4.2[11⁄16"]X9.5[3⁄8"] (STANDARD configuration)		3-12		6-24		Acc. dimensions
MU0706	SELF-TAPPING PAN HEAD SCREW 4.8[11⁄16"]X16[5⁄8"]		13		-		

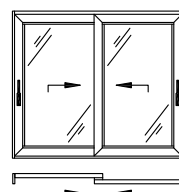
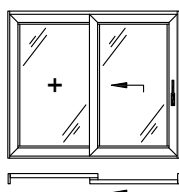
Order lists

Frame 90°



For the correct dimensioning of the sashes refer to:
-Static employment limits
-Executive limits of the hardware

QUANTITY PER TYPOLOGY

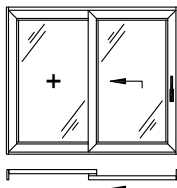
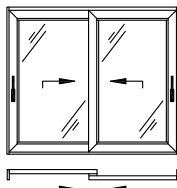


CODE	GASKETS	QUANTITY	CUTTING	QUANTITY	CUTTING	NOTES
STANDARD configuration						
MG040D	STROKE END GASKET	4	H-50 [1 $\frac{5}{16}$ "	4	H-50 [1 $\frac{5}{16}$ "	
MG042S	BRUSH GASKET	1 + 2	L/2-76.5 [3"] ---- H-50 [1 $\frac{5}{16}$ "	2	H-50 [1 $\frac{5}{16}$ "	
MG060P	SPACER FOR INTERLOCK PROFILE	2	H-50 [1 $\frac{5}{16}$ "	2	H-50 [1 $\frac{5}{16}$ "	
MG063D	STROKE END GASKET	2	H-50 [1 $\frac{5}{16}$ "	2	H-50 [1 $\frac{5}{16}$ "	
MG066D	SASH TOP WEATHERSEAL GASKET	2	L	2	L	Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	6	2L+4H	6	2L+4H	Indicative dimensions
MG068D	TRACK COVER	2	L-38[1 $\frac{1}{2}$ "	2	L-38[1 $\frac{1}{2}$ "	
MG041D	COVER GASKET	1	L-38[1 $\frac{1}{2}$ "	2	L-38[1 $\frac{1}{2}$ "	
MG061P	JAMB COVER	1	H-66 [2 $\frac{3}{8}$ "	2	H-66 [2 $\frac{3}{8}$ "	
MG187P	COVER GASKET	2	L-38[1 $\frac{1}{2}$ "	2	L-38[1 $\frac{1}{2}$ "	
MG386D	EXTERNAL GLAZING GASKET	6	2L+4H	6	2L+4H	Indicative dimensions
---	INTERNAL GLAZING GASKET	6	2L+4H	6	2L+4H	Indicative dimensions
MG673D	SPACER GASKET	1	L/2-76.5 [3"]	-	-	If necessary
MG954P	SIDE FINISHING GASKET SASH	1	H-50 [1 $\frac{5}{16}$ "	2	H-50 [1 $\frac{5}{16}$ "	
PLUS configuration						
MG031T	EXTERNAL GLAZING GASKET	6	2L+4H	6	2L+4H	Indicative dimensions
---	INTERNAL GLAZING GASKET	6	2L+4H	6	2L+4H	Indicative dimensions
MG040D	STROKE END GASKET	4	H-50 [1 $\frac{5}{16}$ "	4	H-50 [1 $\frac{5}{16}$ "	
MG042S	BRUSH GASKET	1 + 2	L/2-76.5 [3"] ---- H-50 [1 $\frac{5}{16}$ "	2	H-50 [1 $\frac{5}{16}$ "	
MG060P	SPACER FOR INTERLOCK PROFILE	2	H-50 [1 $\frac{5}{16}$ "	2	H-50 [1 $\frac{5}{16}$ "	
MG063D	STROKE END GASKET	2	H-50 [1 $\frac{5}{16}$ "	2	H-50 [1 $\frac{5}{16}$ "	
MG066D	SASH TOP WEATHERSEAL GASKET	2	L	2	L	Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	6	2L+4H	6	2L+4H	Indicative dimensions
MG068D	TRACK COVER	2	L-38[1 $\frac{1}{2}$ "	2	L-38[1 $\frac{1}{2}$ "	
MG041D	TRACK COVER	1	L-38[1 $\frac{1}{2}$ "	2	L-38[1 $\frac{1}{2}$ "	
MG061P	COVER GASKET	1	H-66 [2 $\frac{3}{8}$ "	2	H-66 [2 $\frac{3}{8}$ "	
MG187P	TRACK COVER	2	L-38[1 $\frac{1}{2}$ "	2	L-38[1 $\frac{1}{2}$ "	
MG188E	INSULATING GASKET	5	1L+4H	5	1L+4H	Indicative dimensions
MG189PS	INSULATING GASKET	2	H	2	H	
MG190PS	UNDERGLASS INSULATION	6	2L+4H	6	2L+4H	Indicative dimensions
MG673D	SPACER GASKET	1	L/2-76.5 [3"]	-	-	If necessary
	GLASSES	2	L/2-154.5[6 $\frac{1}{16}$ " ---- H-218[8 $\frac{3}{16}$ "	2	L/2-154.5[6 $\frac{1}{16}$ " ---- H-218[8 $\frac{3}{16}$ "	

Order lists

Frame 90°

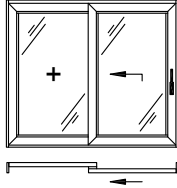
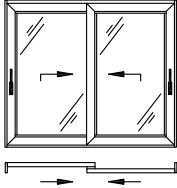
MGU hardware

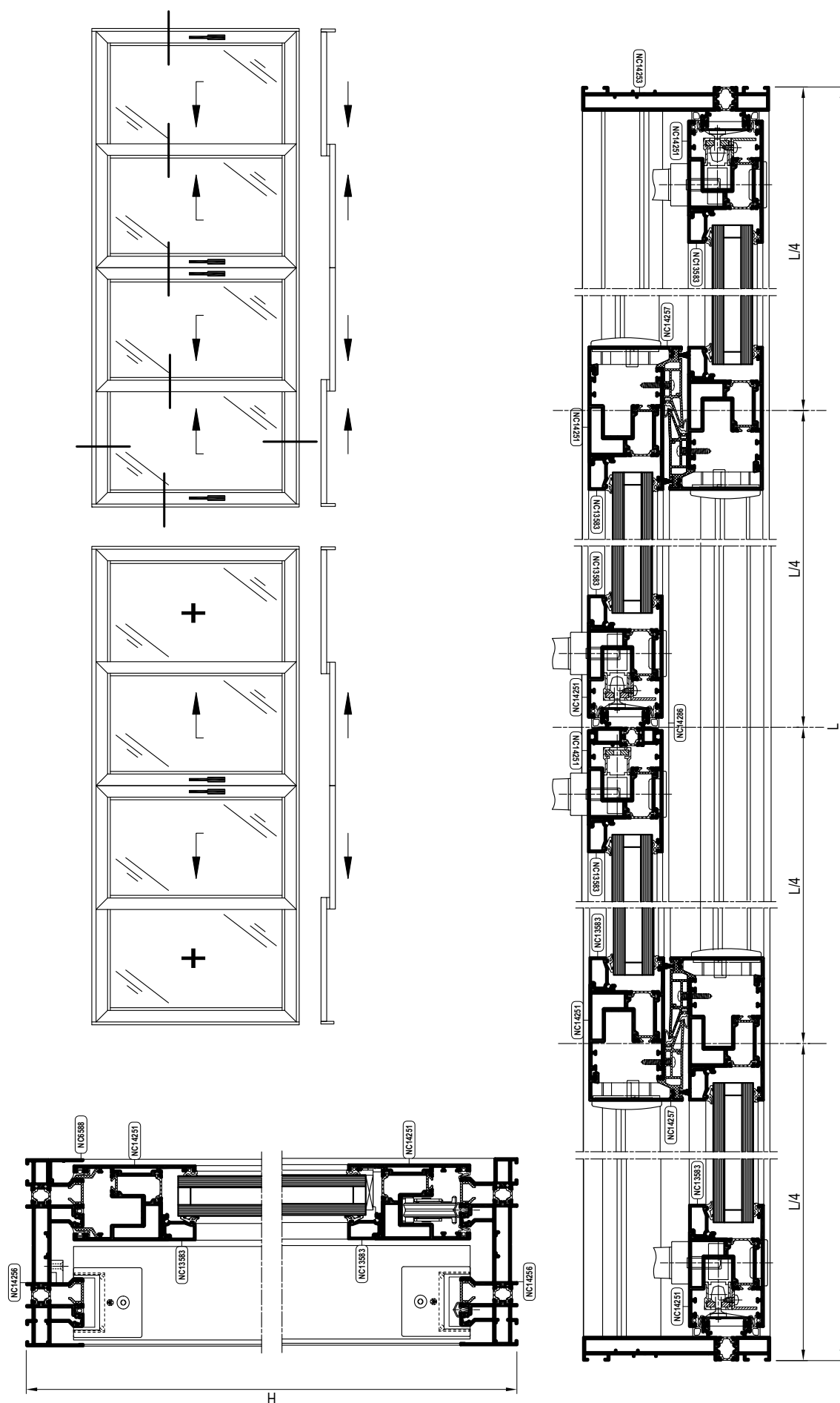
		QUANTITY PER TYPOLOGY	
			
CODE	HANDLES		
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	1	2
MA2984	KIT SCREWS + SQUARE SPINDLE	1	2
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	1	2
MA2984	KIT SCREWS + SQUARE SPINDLE	1	2
MS3080	HALF CYLINDER	1	2
INSIDE / OUTSIDE: HANDLE + CYLINDER			
MA2988	DOUBLE PULL HANDLE HS ESSENCE	1	2
MA2985	KIT SCREWS + SQUARE SPINDLE	1	2
MS3076	CYLINDER	1	2
CODE	HARDWARE		
MA0183	LOCK KEEPER	2	H ≤ 1855 mm[6'1"] 4
		3	H ≥ 1856 mm[6'1"] 6
MA0188	KEEPER SUPPORT	2	H ≤ 1855 mm[6'1"] 4
		3	H ≥ 1856 mm[6'1"] 6
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	1	optional 2
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])	1	optional 2
MA0215	LIFT-AND-SLIDE BASE SET 300 kg [660 lb]	1	2
MA0227	EXTENSION KIT FOR LIFT-AND-SLIDE LOCK WITH KEEPER	1	3000mm[9'11 1/8"] ≤ H ≤ 3230mm[10'7 1/8"] 2
MA0298	KEEPER FASTENER	2	H ≤ 1855 mm[6'1"] 4
		3	H ≥ 1856 mm[6'1"] 6
MA9014	ANTI-SHOCK CAP	1	1
MA9031	COVER	1	2730mm[8'11 1/2"] ≤ H ≤ 3000mm[9'10 1/8"] 2
MA9032	VENTILATION KEEPER	1	2
MA9051	LOCK E=47,5[1 7/8"] H SASH= 855mm[2'9 5/8"] -1275mm[4'2 1/4"]	1	2
MA9052	LOCK E=47,5[1 7/8"] H SASH= 1276mm[4'2 1/4"] -1855mm[6'1"]		
MA9053	LOCK E=47,5[1 7/8"] H SASH= 1856mm[6'1"] -2355mm[7'8 3/4"]		
MA9054	LOCK E=47,5[1 7/8"] H SASH= 2356mm[7'8 3/4"] -2755mm[9'0 3/4"]	1	2
MA9055	CONNECTING BAR SASH L=720mm[2'4 3/8"]-1600mm[5'3"]		
MA9056	CONNECTING BAR SASH L=1601[5'3"]-1850mm[6'1 1/8"]		
MA9057	CONNECTING BAR SASH L=1851mm[6'1 1/8"]-2350[7'8 1/2"]		
MA9058	CONNECTING BAR SASH L=2350mm[7'8 1/2"]-3300mm[10'9 7/8"]	1	2
MA9079	LOCK SPRING FOR SASHES OVER 200 kg [440lb]		
MA9121	ANTI-LIFTING BLOCK	1	2
MU0496	SELF TAPPING SCREW 3.5[1 1/8"]X20[3/4"]	2	4
LIFTING-SLIDING SOLUTION FROM 300 kg [660lb] TO 400 kg [880lb]			
MA9078	KIT CARRIAGES LOAD CAPACITY 400 kg [880 lbs] (PAIR)	1	2

Order lists

Frame 90°

MGU hardware

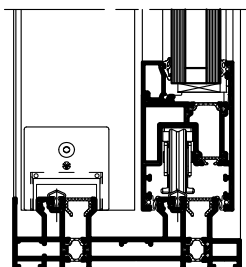
		QUANTITY PER TYPOLOGY	
			
CODE	HANDLES		
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	1	2
MA2984	KIT SCREWS + SQUARE SPINDLE	1	2
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	1	2
MA2984	KIT SCREWS + SQUARE SPINDLE	1	2
MS3080	HALF CYLINDER	1	2
INSIDE / OUTSIDE: HANDLE + CYLINDER			
MA2988	DOUBLE PULL HANDLE HS ESSENCE	1	2
MA2985	KIT SCREWS + SQUARE SPINDLE	1	2
MS3076	CYLINDER	1	2
CODE	HARDWARE		
MA0154	SHIM FOR EXTENSION MA0155	1	2700.1[106 ⁵ / ₈ "] ≤ H ≤ 3300 mm[129 ¹⁵ / ₈ "] 2
MA0155	EXTENSION FOR LOCK COMPLETE WITH LOCKING POINTS	1	2700.1[106 ⁵ / ₈ "] ≤ H ≤ 3300 mm[129 ¹⁵ / ₈ "] 2
MA0190	KIT HS SOFT LIFT (CANNOT BE USED WITH LOCK MA0194)	1	optional 2
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	1	optional 2
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0198	LOCK KEEPER	2	H ≤ 1800 mm [70 ⁷ / ₈ "] 4
		3	H ≥ 1801 mm [70 ⁷ / ₈ "] 6
		1	2700.1[106 ⁵ / ₈ "] ≤ H ≤ 3300 mm[129 ¹⁵ / ₈ "] 2
MA0193	LIFT-AND-SLIDE BASIC KIT 330 kg [727 lb]	1	2
MA9117	ANTI-SHOCK CAP	1	1
MA9118	VENTILATION KEEPER	1	2
MA0194	LOCK H SASH= 1200mm[3'11 ¹ / ₄ "]-1800mm[5'10 ³ / ₈ "]	1	2
MA0195	LOCK H SASH= 1801mm[5'10 ⁷ / ₈ "]-2100mm[5'10 ⁵ / ₈ "]		
MA0196	LOCK H SASH= 2101mm[5'10 ⁵ / ₈ "]-2400mm[7'10 ¹ / ₂ "]		
MA0197	LOCK H SASH= 2401[7'10 ¹ / ₂ "]-2700mm[8'10 ¹ / ₄ "]		
MA0298	KEEPER FASTENER PAIR	2	H ≤ 1800 mm [70 ⁷ / ₈ "] 4
		3	H ≥ 1801 mm [70 ⁷ / ₈ "] 6
		1	2700.1[106 ⁵ / ₈ "] ≤ H ≤ 3300 mm[129 ¹⁵ / ₈ "] 2
MA9105	CONNECTING BAR SASH L=720mm[2'4 ³ / ₈ "]-1500mm[4'11"]	1	2
MA9106	CONNECTING BAR SASH L=1501mm[4'11"]-2000mm[6'6 ³ / ₈ "]		
MA9107	CONNECTING BAR SASH L=2001mm[6'6 ³ / ₈ "]-2500mm[8'2 ³ / ₈ "]		
MA9108	CONNECTING BAR SASH L=2501mm[8'2 ³ / ₈ "]-3265mm[10'8 ¹ / ₂ "]		
MA9121	ANTI-LIFTING BLOCK	1	2
MA0185	LATCH FOR LOCK MA0194	2	4
	LATCH FOR LOCK MA0195	3	6
	LATCH FOR LOCK MA0196	3	6
	LATCH FOR LOCK MA0197	3	6
	LATCH FOR EXTENSION MA0155	1	2700.1[106 ⁵ / ₈ "] ≤ H ≤ 3300 mm[129 ¹⁵ / ₈ "] 2
MU0496	SCREW FH 3.5[¹ / ₈ "]X20[³ / ₄ "]	2	4
MA0182	VENTILATION LATCH	1	if necessary 2
LIFTING-SLIDING SOLUTION FROM 330 kg [727 lbs] TO 440 kg [970 lbs]			
MA0172	KIT CARRIAGES LOAD CAPACITY 440 kg [970 lbs] (PAIR)	1	2



Order lists
4 sashes on 2 tracks
Frame 90°

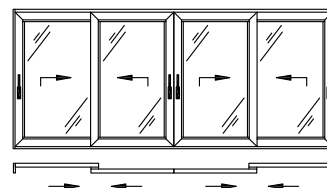
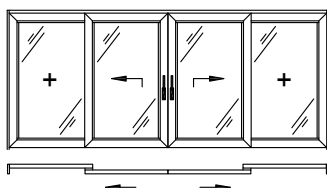
Order lists

Frame 90°



For the correct dimensioning of the sashes refer to:
 -Static employment limits
 -Executive limits of the hardware

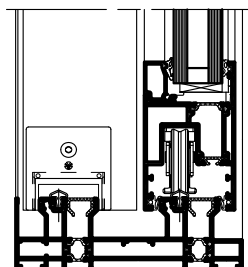
QUANTITY PER TYPOLOGY



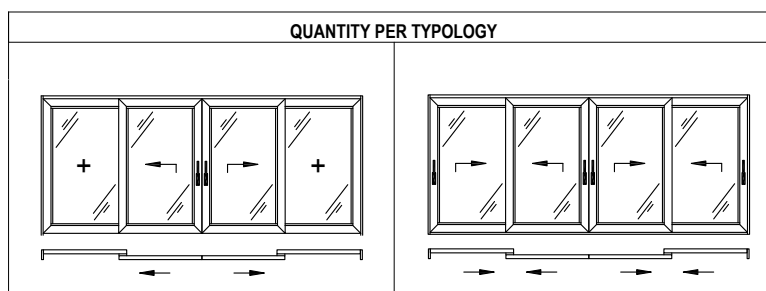
CODE	PROFILES	DESCRIPTION	QUANTITY	CUTTING	QUANTITY	CUTTING	NOTES
NC14253		FRAME	2	H	2	H	
NC14256		FRAME	2	L-38[1½"]	2	L-38[1½"]	
NC14251		SASH	8+8	L/4+24.5[15/16"] H-76[3"]	8+8	L/4+24.5[15/16"] H-76[3"]	
NC14257		INTERLOCK PROFILE	4	H-76[3"]	4	H-76[3"]	
NC14507		COMPLEMENTARY PROFILE	1	L/2	-	-	Indicative dimensions
NC14286		CENTRAL COVER	1	H-76[3"]	1	H-76[3"]	
NC6588		DRIP	1	L-38[1½"]	1	L-38[1½"]	
-		GLASS STOP	8+8	L/4-127.5[5"] H-272[10 11/16"]	8+8	L/4-127.5[5"] H-272[10 11/16"]	
CODE	ACCESSORIES		QUANTITY		QUANTITY		NOTES
MA0170	WALL ADJUSTMENT		20-28		20-28		Acc. dimensions
MA0186	ANTI VIBRATION SPACER		12		12		
MA0187	KIT CAPS FOR INTERLOCK PROFILE		1		1		
MA0200	TRACK GUIDE		1 (L-38[1½"])		2 (L-38[1½"])		
MA0202	SASH CORNER KEY		16		16		
MA0203	ALIGNMENT CORNER KEY		16		16		
MA0205	PIN 3[11/16"]X17[5/8"]		32		32		
MA0206	SASH TOP MOULDED CORNER FOR MG067D		16		16		
MA0207	SASH BOTTOM MOULDED CORNER (PAIR)		8		8		
MA0210	WATER DRAINAGE BUSH		4-14		4-14		Acc. dimensions
MA0211	WATER DRAINAGE CAP		1		1		
MA0212	SASH EXTERIOR WEATHERSEAL CAPS		4		4		
MA0217	SASH TOP CENTERING DEVICE		8-20		16-40		Acc. dimensions
MA0223	SUPPORT FOR FIXED SASH		6		-		
MA0224	SUPPORT FOR FIXED SASH		4		-		
MA0225	PLATE FOR MA0223		2		-		
MA0226	FASTENING WASHER		20-28		20-28		Acc. dimensions
MA0229	ANTI-SHOCK CAP		4		12		
MA0237	SCREW 4.8[1/4"]X10[3/8"] RH WASHER HEAD		12		12		
MA0238	CORNER KEY		16		16		
MA0240	SELF ADHESIVE PAD		2		2		
MA0243	SASH INTERIOR WEATHERSEAL CAPS		2		2		
MA0247	FRAME BOTTOM EATHERSEAL CAPS		3		3		
MA0248	FRAME TOP WEATHERSEAL CAPS		3		3		
MA0290	GLASS SHIMMING BASE		32		32		
MA4564	GLASS SHIMMING BASE		48-80		48-80		Acc. dimensions
MA5550	GLASS STOP GASKET IN PIECES (30mm[1 1/8"])		32		32		
MA6337	PAN HEAD SCREW 4.2[1/8"]X25[1"]		12-48		12-48		Acc. dimensions
MA9144	WATER DRAINAGE VALVE		1		1		
MA9160	WATER DRAINAGE VALVE		4		4		
MU0541	BUFFER STOP WITH PAN HEAD SCREW 4.2[1/8"]X22[7/8"]		8		8		
MU0572	PAN HEAD SCREW 4.2[1/8"]X9.5[3/4"] (STANDARD configuration)		3-12		12-36		Acc. dimensions
MU0706	SELF-TAPPING PAN HEAD SCREW 4.8[1/4"]X16[5/8"]		26		-		

Order lists

Frame 90°



For the correct dimensioning of the sashes refer to:
 -Static employment limits
 -Executive limits of the hardware

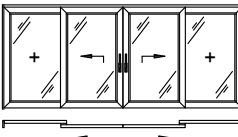
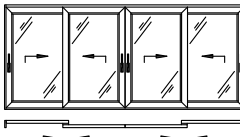


CODE	GASKETS	QUANTITY	CUTTING	QUANTITY	CUTTING	NOTES
STANDARD configuration						
MG040D	STROKE END GASKET	6	H-76 [3"]	6	H-76 [3"]	
MG042S	BRUSH GASKET	1 + 4	L/2 ---- H-76 [3"]	4	H-76 [3"]	
MG060P	SPACER FOR INTERLOCK PROFILE	4	H-76 [3"]	4	H-76 [3"]	
MG063D	STROKE END GASKET	4	H-76 [3"]	4	H-76 [3"]	
MG066D	SASH TOP WEATHERSEAL GASKET	2	L	2	L	Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	8	2L+6H	8	2L+6H	Indicative dimensions
MG068D	TRACK COVER	2	L-38[1½"]	2	L-38[1½"]	
MG061P	JAMB COVER	1	H-92[3⅝"]	3	H-92[3⅝"]	
MG187P	TRACK COVER	3	L-38[1½"]	4	L-38[1½"]	
MG386D	EXTERNAL GLAZING GASKET	10	2L+8H	10	2L+8H	Indicative dimensions
---	INTERNAL GLAZING GASKET	10	2L+8H	10	2L+8H	Indicative dimensions
MG671D	SPACER GASKET	1	L/2	-	-	If necessary
MG954P	SIDE FINISHING GASKET SASH	1	H-76 [3"]	3	H-76 [3"]	
PLUS configuration						
MG031T	EXTERNAL GLAZING GASKET	10	2L+8H	10	2L+8H	Indicative dimensions
---	INTERNAL GLAZING GASKET	10	2L+8H	10	2L+8H	Indicative dimensions
MG040D	STROKE END GASKET	6	H-76 [3"]	6	H-76 [3"]	
MG042S	BRUSH GASKET	1 + 4	L/2 ---- H-76 [3"]	4	H-76 [3"]	
MG060P	SPACER FOR INTERLOCK PROFILE	4	H-76 [3"]	4	H-76 [3"]	
MG063D	STROKE END GASKET	4	H-76 [3"]	4	H-76 [3"]	
MG066D	SASH TOP WEATHERSEAL GASKET	2	L	2	L	Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	8	2L+6H	8	2L+6H	Indicative dimensions
MG068D	TRACK COVER	2	L-38[1½"]	2	L-38[1½"]	
MG061P	JAMB COVER	1	H-92[3⅝"]	3	H-92[3⅝"]	
MG187P	TRACK COVER	3	L-38[1½"]	4	L-38[1½"]	
MG188E	INSULATING GASKET	9	1L+8H	9	1L+8H	Indicative dimensions
MG189PS	INSULATING GASKET	3	H	3	H	
MG190PS	UNDER-GLASS INSULATING GASKET	10	2L+8H	10	2L+8H	Indicative dimensions
MG671D	SPACER GASKET	1	L/2	-	-	If necessary
	GLASSES	4	L/4-143.5 [5⅝"]---- H-244[9⅝"]	4	L/4-143.5 [5⅝"]---- H-244[9⅝"]	

Order lists

Frame 90°

MGU hardware

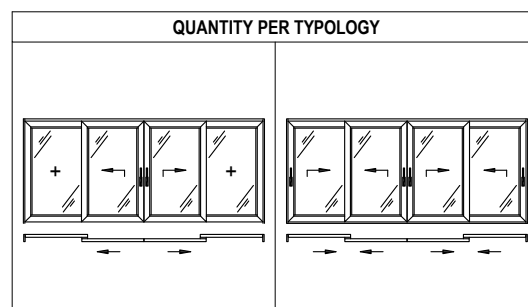
QUANTITY PER TYPOLOGY	
	

CODE		HANDLES			
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP					
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE		2	4	
MA2984	KIT SCREWS + SQUARE SPINDLE		2	4	
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP					
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE		2	4	
MA2984	KIT SCREWS + SQUARE SPINDLE		2	4	
MS3080	HALF CYLINDER		2	4	
INSIDE / OUTSIDE: HANDLE + CYLINDER					
MA2988	DOUBLE PULL HANDLE HS ESSENCE		2	4	
MA2985	KIT SCREWS + SQUARE SPINDLE		2	4	
MS3076	CYLINDER		2	4	
CODE		HARDWARE			
MA0183	LOCK KEEPER	2	H ≤ 1855 mm[6'1"]	6	
		3	H ≥ 1856 mm[6'1"]	9	
MA0188	KEEPER SUPPORT	2	H ≤ 1855 mm[6'1"]	6	
		3	H ≥ 1856 mm[6'1"]	9	
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	2	optional		4
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])				
MA0215	LIFT-AND-SLIDE BASE SET 300 kg [660 lb]	2		4	
MA0227	EXTENSION KIT FOR LIFT-AND-SLIDE LOCK WITH KEEPER	1 3000mm[9'1½"]≤H≤3230mm[10'7½"] 3			
MA0298	KEEPER FASTENER	2	H ≤ 1855 mm[6'1"]	6	
		3	H ≥ 1856 mm[6'1"]	9	
MA9014	ANTI-SHOCK CAP	2		2	
MA9031	COVER	1 2730mm[8'1½"]≤H≤3000mm[9'1½"] 3			
MA9032	VENTILATION KEEPER	1		3	
MA9051	LOCK E=47,5[1½"] H SASH= 855mm[2'9½"] -1275mm[4'2¼"]	2	4		
MA9052	LOCK E=47,5[1½"] H SASH= 1276mm[4'2¼"] -1855mm[6'1"]				
MA9053	LOCK E=47,5[1½"] H SASH= 1856mm[6'1"] -2355mm[7'8¾"]				
MA9054	LOCK E=47,5[1½"] H SASH= 2356mm[7'8¾"] -2755mm[7'8¾"]				
MA9055	CONNECTING BAR SASH L=720mm[2'4⅜"]-1600mm[5'3"]	2	4		
MA9056	CONNECTING BAR SASH L=1601[5'3"]-1850mm[6'⅞"]				
MA9057	CONNECTING BAR SASH L=1851mm[6'⅞"]-2350[7'8½"]				
MA9058	CONNECTING BAR SASH L=2350mm[7'8½"]-3300mm[10'9⅞"]				
MA9079	LOCK SPRING FOR SASHES OVER 200 kg [440lb]	2		4	
MA9121	ANTI-LIFTING BLOCK	2		4	
MU0496	SELF TAPPING SCREW 3.5[⅝"]X20[⅝"]	4		8	
	LIFTING-SLIDING SOLUTION FROM 300 kg [660lb] TO 400 kg [880lb]				
MA9078	KIT CARRIAGES LOAD CAPACITY 400 kg [880 lbs] (PAIR)		2	4	

Order lists

Frame 90°

MHA hardware

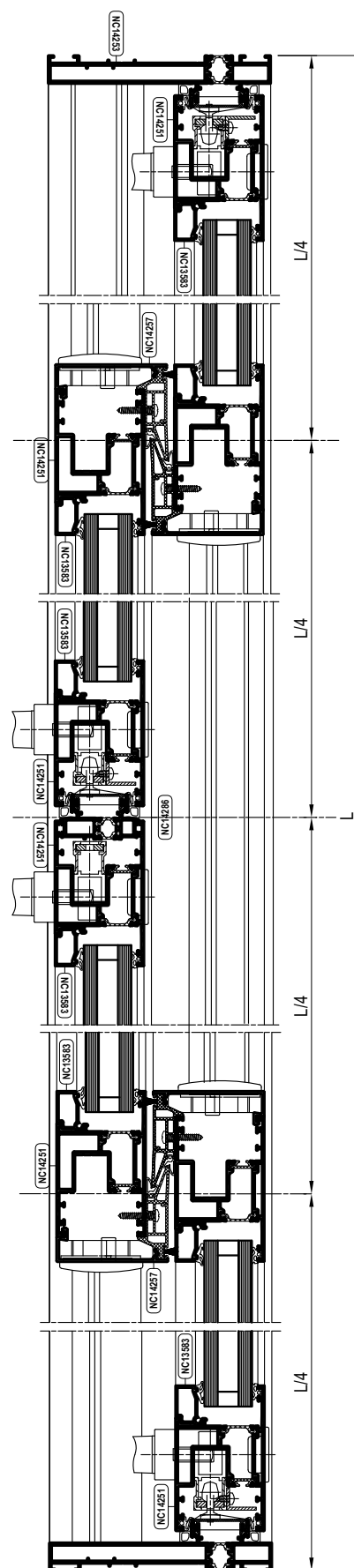
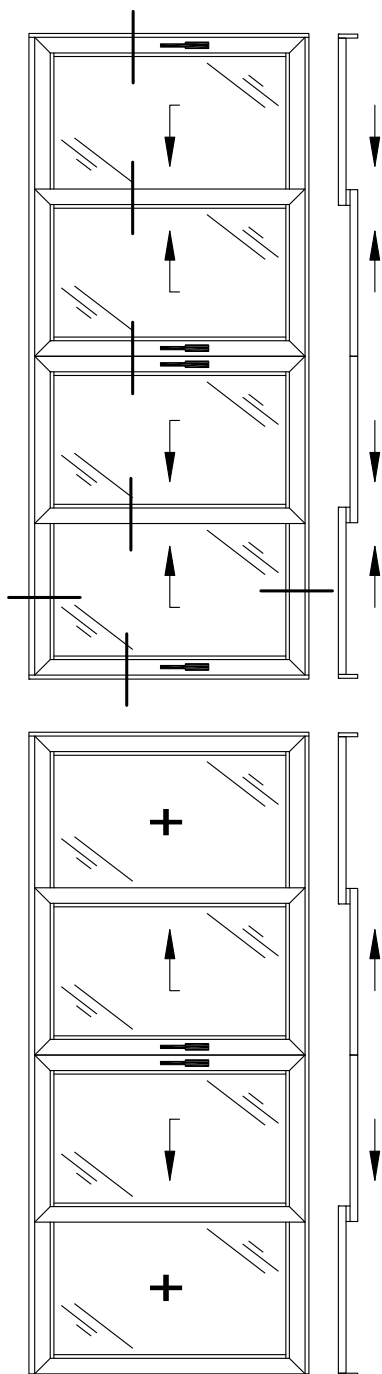
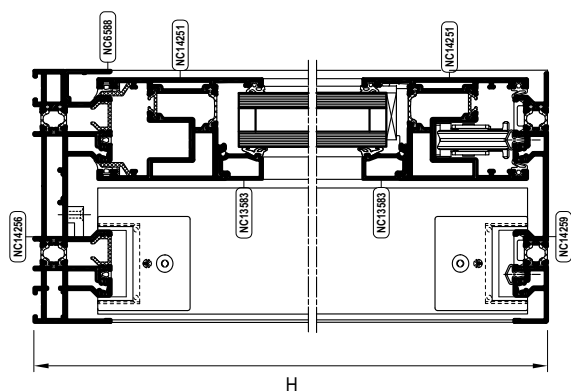


CODE	HANDLES		
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	2	4
MA2984	KIT SCREWS + SQUARE SPINDLE	2	4
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	2	4
MA2984	KIT SCREWS + SQUARE SPINDLE	2	4
MS3080	HALF CYLINDER	2	4
INSIDE / OUTSIDE: HANDLE + CYLINDER			
MA2988	DOUBLE PULL HANDLE HS ESSENCE	2	4
MA2985	KIT SCREWS + SQUARE SPINDLE	2	4
MS3076	CYLINDER	2	4
CODE	HARDWARE		
MA0154	SHIM FOR EXTENSION MA0155	1	2700.1[106 ⁵ / ₁₆ "] ≤ H ≤ 3300 mm[129 ¹⁵ / ₁₆ "] 3
MA0155	EXTENSION FOR LOCK COMPLETE WITH LOCKING POINTS	1	2700.1[106 ⁵ / ₁₆ "] ≤ H ≤ 3300 mm[129 ¹⁵ / ₁₆ "] 3
MA0190	KIT HS SOFT LIFT (CANNOT BE USED WITH LOCK MA0194)	2	optional 4
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	2	optional 4
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0198	LOCK KEEPER	2	H ≤ 1800 mm [70 ⁷ / ₈ "] 6
		3	H ≥ 1801 mm [70 ⁷ / ₈ "] 9
		1	2700.1[106 ⁵ / ₁₆ "] ≤ H ≤ 3300 mm[129 ¹⁵ / ₁₆ "] 3
MA0193	LIFT-AND-SLIDE BASE SET 330 kg [727 lb]	1	2
MA9117	ANTI-SHOCK CAP	1	1
MA9118	VENTILATION KEEPER	1	2
MA0194	LOCK H SASH= 1200mm[3'11 ¹ / ₄ "]-1800mm[5'10 ³ / ₈ "]	1	2
MA0195	LOCK H SASH= 1801mm[5'10 ⁷ / ₈ "]-2100mm[5'10 ³ / ₈ "]		
MA0196	LOCK H SASH= 2101mm[5'10 ³ / ₈ "]-2400mm[7'10 ¹ / ₂ "]		
MA0197	LOCK H SASH= 2401[7'10 ¹ / ₂ "]-2700mm[8'10 ¹ / ₄ "]		
MA0298	KEEPER FASTENER	2	H ≤ 1800 mm [70 ⁷ / ₈ "] 4
		3	H ≥ 1801 mm [70 ⁷ / ₈ "] 6
		1	2700.1[106 ⁵ / ₁₆ "] ≤ H ≤ 3300 mm[129 ¹⁵ / ₁₆ "] 3
MA9105	CONNECTING BAR SASH L=720mm[2'4 ³ / ₈ "]-1500mm[4'11"]	2	4
MA9106	CONNECTING BAR SASH L=1501mm[4'11"]-2000mm[6'6 ³ / ₄ "]		
MA9107	CONNECTING BAR SASH L=2001mm[6'6 ³ / ₄ "]-2500mm[8'2 ³ / ₄ "]		
MA9108	CONNECTING BAR SASH L=2501mm[8'2 ³ / ₈ "]-3265mm[10'8 ¹ / ₂ "]		
MA9121	ANTI-LIFTING BLOCK	2	4
MA0185	LATCH FOR LOCK MA0194	2	6
	LATCH FOR LOCK MA0195	3	9
	LATCH FOR LOCK MA0196	3	9
	LATCH FOR LOCK MA0197	3	9
	LATCH FOR EXTENSION MA0155	1	2700.1[106 ⁵ / ₁₆ "] ≤ H ≤ 3300 mm[129 ¹⁵ / ₁₆ "] 3
MU0496	SCREW FH 3.5[¹ / ₈ "]X20[³ / ₄ "]	4	8
MA0182	VENTILATION LATCH	1	if necessary 3
LIFTING-SLIDING SOLUTION FROM 330 kg [727 lbs] TO 440 kg [970 lbs]			
MA0172	KIT CARRIAGES LOAD CAPACITY 440 kg [970 lbs] (PAIR)	2	4

Order lists

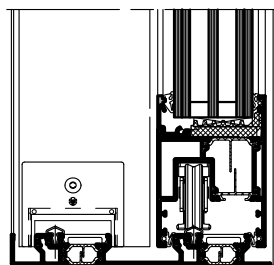
4 sashes on 2 tracks with lowered threshold

Frame 90°



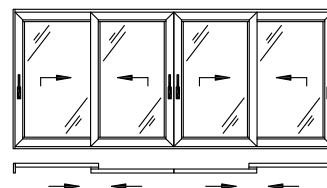
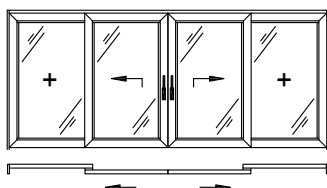
Order lists

Frame 90°



For the correct dimensioning of the sashes refer to:
 -Static employment limits
 -Executive limits of the hardware

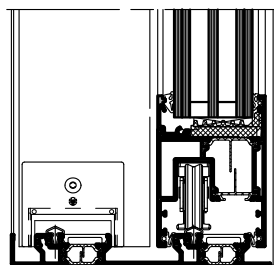
QUANTITY PER TYPOLOGY



CODE	PROFILES	DESCRIPTION	QUANTITY	CUTTING	QUANTITY	CUTTING	NOTES
NC14253		FRAME	2	H	2	H	
NC14256		FRAME	1	L-38[1½"]	1	L-38[1½"]	
NC14259		FRAME	1	L-38[1½"]	1	L-38[1½"]	
NC14251		SASH	8+8	L/4+24.5[5½"] H-50[1½"]	8+8	L/4+24.5[5½"] H-50[1½"]	
NC14257		INTERLOCK PROFILE	4	H-50[1½"]	4	H-50[1½"]	
NC14507		COMPLEMENTARY PROFILE	1	L/2	-	-	Indicative dimensions
NC14286		INTERLOCK PROFILE	1	H-50[1½"]	1	H-50[1½"]	
NC6588		DRIP	1	L-38[1½"]	1	L-38[1½"]	
-		GLASS STOP	8+8	L/2-138.5[5½"] H-246[9½"]	8+8	L/2-138.5[5½"] H-246[9½"]	
CODE	ACCESSORIES		QUANTITY		QUANTITY		NOTES
MA0170	WALL ADJUSTMENT		20-28		20-28		Acc. dimensions
MA0186	ANTI VIBRATION SPACER		12		12		
MA0187	KIT CAPS FOR INTERLOCK PROFILE		1		1		
MA0200	TRACK GUIDE		1 (L-38[1½"])		2 (L-38[1½"])		
MA0202	SASH CORNER KEY		16		16		
MA0203	ALIGNMENT CORNER KEY		16		16		
MA0205	PIN 3[11"]X17[11"]		32		32		
MA0206	SASH TOP MOULDED CORNER FOR MG067D		16		16		
MA0207	SASH BOTTOM MOULDED CORNER (PAIR)		8		8		
MA0212	SASH EXTERIOR WEATHERSEAL CAPS		4		4		
MA0217	SASH TOP CENTERING DEVICE		8-20		16-40		Acc. dimensions
MA0223	SUPPORT FOR FIXED SASH		6		-		
MA0224	SUPPORT FOR FIXED SASH		4		-		
MA0225	PLATE FOR MA0223		2		-		
MA0226	FASTENING WASHER		20-28		20-28		Acc. dimensions
MA0229	ANTI-SHOCK CAP		4		12		
MA0237	SCREW 4.8[11"]X10[11"] RH WASHER HEAD		12		12		
MA0238	CORNER KEY		16		16		
MA0243	SASH INTERIOR WEATHERSEAL CAPS		2		2		
MA0245	SELF ADHESIVE PAD		2		2		
MA0248	FRAME BOTTOM EATHERSEAL CAPS		3		3		
MA0249	FRAME TOP WEATHERSEAL CAPS		3		3		
MA0290	GLASS SHIMMING BASE		32		32		
MA4564	GLASS STOP GASKET IN PIECES (30mm[1½"])		48-80		48-80		Acc. dimensions
MA5550	PIN		32		32		
MA6337	PAN HEAD SCREW 4.2[11"]X25[1"]		12-48		12-48		Acc. dimensions
MA9163	WATER DRAINAGE VALVE		4		4		
MA9164	EXTENSION FOR MA9163		4		4		
MU0541	BUFFER STOP WITH PAN HEAD SCREW 4.2[11"]X22[11"]		8		8		
MU0572	PAN HEAD SCREW 4.2[11"]X9.5[11"] (STANDARD configuration)		3-12		12-36		Acc. dimensions
MU0706	SELF-TAPPING PAN HEAD SCREW 4.8[11"]X16[11"]		26		-		

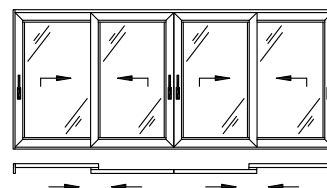
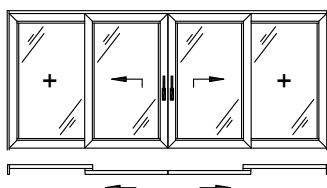
Order lists

Frame 90°



For the correct dimensioning of the sashes refer to:
 -Static employment limits
 -Executive limits of the hardware

QUANTITY PER TYPOLOGY

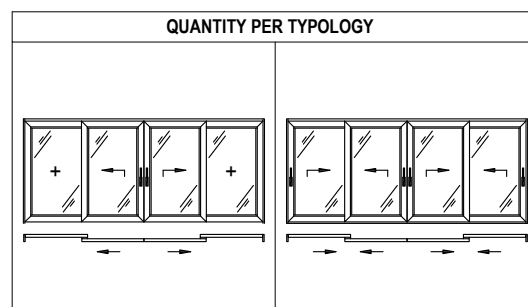


CODE	GASKETS	QUANTITY	CUTTING	QUANTITY	CUTTING	NOTES
STANDARD configuration						
MG040D	STROKE END GASKET	6	H-50 $\left[\frac{5}{16}\right]$	6	H-50 $\left[\frac{5}{16}\right]$	
MG041D	COVER GASKET	1	L-38 $\left[1\frac{1}{2}\right]$	2	L-38 $\left[1\frac{1}{2}\right]$	
MG042S	BRUSH GASKET	1 + 4	L/2 ---- H-50 $\left[\frac{5}{16}\right]$	4	H-50 $\left[\frac{5}{16}\right]$	
MG060P	SPACER FOR INTERLOCK PROFILE	4	H-50 $\left[\frac{5}{16}\right]$	4	H-50 $\left[\frac{5}{16}\right]$	
MG063D	STROKE END GASKET	4	H-50 $\left[\frac{5}{16}\right]$	4	H-50 $\left[\frac{5}{16}\right]$	
MG066D	SASH TOP WEATHERSEAL GASKET	2	L	2	L	Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	8	2L+6H	8	2L+6H	Indicative dimensions
MG068D	TRACK COVER	2	L-38 $\left[1\frac{1}{2}\right]$	2	L-38 $\left[1\frac{1}{2}\right]$	
MG061P	JAMB COVER	1	H-66 $\left[2\frac{5}{8}\right]$	3	H-66 $\left[2\frac{5}{8}\right]$	
MG187P	TRACK COVER	3	L-38 $\left[1\frac{1}{2}\right]$	4	L-38 $\left[1\frac{1}{2}\right]$	
MG386D	EXTERNAL GLAZING GASKET	10	2L+8H	10	2L+8H	Indicative dimensions
---	INTERNAL GLAZING GASKET	10	2L+8H	10	2L+8H	Indicative dimensions
MG673D	SPACER GASKET	1	L/2	-	-	If necessary
MG954P	SIDE FINISHING GASKET SASH	1	H-50 $\left[\frac{5}{16}\right]$	3	H-50 $\left[\frac{5}{16}\right]$	
Configurazione PLUS						
MG031T	EXTERNAL GLASS GASKET	10	2L+8H	10	2L+8H	Indicative dimensions
---	INTERNAL GLASS GASKET	10	2L+8H	10	2L+8H	Indicative dimensions
MG040D	FINISHING GASKET	6	H-50 $\left[\frac{5}{16}\right]$	6	H-50 $\left[\frac{5}{16}\right]$	
MG041D	COVER GASKET	1	L-38 $\left[1\frac{1}{2}\right]$	2	L-38 $\left[1\frac{1}{2}\right]$	
MG042S	BRUSH GASKET	1 + 4	L/2 ---- H-50 $\left[\frac{5}{16}\right]$	4	H-50 $\left[\frac{5}{16}\right]$	
MG060P	SPACER FOR INTERLOCK PROFILE	4	H-50 $\left[\frac{5}{16}\right]$	4	H-50 $\left[\frac{5}{16}\right]$	
MG063D	SPACER FOR INTERLOCK PROFILE	4	H-50 $\left[\frac{5}{16}\right]$	4	H-50 $\left[\frac{5}{16}\right]$	
MG066D	RABBET GASKET FOR SASH	2	L	2	L	Indicative dimensions
MG067D	RABBET GASKET FOR SASH	8	2L+6H	8	2L+6H	Indicative dimensions
MG068D	COVER GASKET	2	L-38 $\left[1\frac{1}{2}\right]$	2	L-38 $\left[1\frac{1}{2}\right]$	
MG061P	COVER GASKET	1	H-66 $\left[2\frac{5}{8}\right]$	3	H-66 $\left[2\frac{5}{8}\right]$	
MG187P	COVER GASKET	3	L-38 $\left[1\frac{1}{2}\right]$	4	L-38 $\left[1\frac{1}{2}\right]$	
MG188E	INSULATING GASKET	9	1L+8H	9	1L+8H	Indicative dimensions
MG189PS	INSULATING GASKET	3	H	3	H	
MG190PS	UNDER-GLASS INSULATING GASKET	10	2L+8H	10	2L+8H	Indicative dimensions
MG673D	SPACER GASKET	1	L/2	-	-	If necessary
	GLASSES	4	L/4-143.5 $\left[5\frac{5}{8}\right]$ ---- H-218 $\left[8\frac{5}{8}\right]$	4	L/4-143.5 $\left[5\frac{5}{8}\right]$ ---- H-218 $\left[8\frac{5}{8}\right]$	

Order lists

Frame 90°

MGU hardware

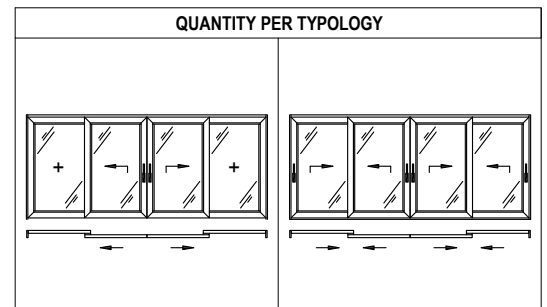


CODE	HANDLES	QUANTITY PER TYPOLOGY	
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	2	4
MA2984	KIT SCREWS + SQUARE SPINDLE	2	4
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	2	4
MA2984	KIT SCREWS + SQUARE SPINDLE	2	4
MS3080	HALF CYLINDER	2	4
INSIDE / OUTSIDE: HANDLE + CYLINDER			
MA2988	DOUBLE PULL HANDLE HS ESSENCE	2	4
MA2985	KIT SCREWS + SQUARE SPINDLE	2	4
MS3076	CYLINDER	2	4
CODE	HARDWARE		
MA0183	LOCK KEEPER	2	H ≤ 1855 mm[6'1"] 6
		3	H ≥ 1856 mm[6'1"] 9
MA0188	KEEPER SUPPORT	2	H ≤ 1855 mm[6'1"] 6
		3	H ≥ 1856 mm[6'1"] 9
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	2	optional 4
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0215	LIFT-AND-SLIDE BASE SET 300 kg [660 lb]	2	4
MA0227	EXTENSION KIT FOR LIFT-AND-SLIDE LOCK WITH KEEPER	1 3000mm[9'11 1/8"]≤H≤3230mm[10'7 1/8"] 3	
MA0298	KEEPER FASTENER	2	H ≤ 1855 mm[6'1"] 6
		3	H ≥ 1856 mm[6'1"] 9
MA9014	ANTI-SHOCK CAP	2	2
MA9031	COVER	1 2730mm[8'11 1/2"]≤H≤3000mm[9'11 1/8"] 3	
MA9032	VENTILATION KEEPER	1	3
MA9051	LOCK E=47,5[1 7/8"] H SASH= 855mm[2'9 3/8"] -1275mm[4'2 1/4"]	2	4
MA9052	LOCK E=47,5[1 7/8"] H SASH= 1276mm[4'2 1/4"] -1855mm[6'1"]		
MA9053	LOCK E=47,5[1 7/8"] H SASH= 1856mm[6'1"] -2355mm[7'8 3/4"]		
MA9054	LOCK E=47,5[1 7/8"] H SASH= 2356mm[7'8 3/4"] -2755mm[7'8 3/4"]		
MA9055	CONNECTING BAR SASH L=720mm[2'4 3/8"]-1600mm[5'3"]	2	4
MA9056	CONNECTING BAR SASH L=1601[5'3"]-1850mm[6'1 1/8"]		
MA9057	CONNECTING BAR SASH L=1851mm[6'1 1/8"]-2350[7'8 1/2"]		
MA9058	CONNECTING BAR SASH L=2350mm[7'8 1/2"]-3300mm[10'9 7/8"]		
MA9079	LOCK SPRING FOR SASHES OVER 200 kg [440lb]	2	4
MA9121	ANTI-LIFTING BLOCK	2	4
MU0496	SELF TAPPING SCREW 3.5[1 1/8"]X20[3 1/4"]	4	8
	LIFTING-SLIDING SOLUTION FROM 300 kg [660lb] TO 400 kg [880lb]		
MA9078	KIT CARRIAGES LOAD CAPACITY 400 kg [880 lbs] (PAIR)	2	4

Order lists

Frame 90°

MHA hardware



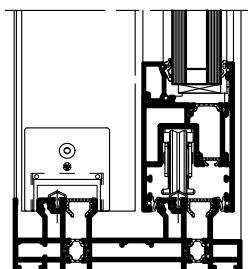
CODE		HANDLES	QUANTITY PER TYPOLOGY	
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP				
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE		2	4
MA2984	KIT SCREWS + SQUARE SPINDLE		2	4
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP				
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE		2	4
MA2984	KIT SCREWS + SQUARE SPINDLE		2	4
MS3080	HALF CYLINDER		2	4
INSIDE / OUTSIDE: HANDLE + CYLINDER				
MA2988	DOUBLE PULL HANDLE HS ESSENCE		2	4
MA2985	KIT SCREWS + SQUARE SPINDLE		2	4
MS3076	CYLINDER		2	4
CODE		HARDWARE		
MA0154	SHIM FOR EXTENSION MA0155		1	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$ 3
MA0155	EXTENSION FOR LOCK COMPLETE WITH LOCKING POINTS		1	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$ 3
MA0190	KIT HS SOFT LIFT (CANNOT BE USED WITH LOCK MA0194)		2	optional 4
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])		2	optional 4
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])			
MA0198	LOCK KEEPER		2	$H \leq 1800 \text{ mm}[70\frac{7}{8}"]$ 6
			3	$H \geq 1801 \text{ mm}[70\frac{7}{8}"]$ 9
			1	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$ 3
MA0193	LIFT-AND-SLIDE BASE SET 330 kg [727 lb]		2	4
MA9117	ANTI-SHOCK CAP		2	2
MA9118	VENTILATION KEEPER		1	3
MA0194	LOCK H SASH= 1200mm[3'11 $\frac{1}{4}$ "]-1800mm[5'10 $\frac{3}{8}$ "]		2	4
MA0195	LOCK H SASH= 1801mm[5'10 $\frac{7}{8}$ "]-2100mm[5'10 $\frac{3}{8}$ "]			
MA0196	LOCK H SASH= 2101mm[5'10 $\frac{3}{8}$ "]-2400mm[7'10 $\frac{1}{2}$ "]			
MA0197	LOCK H SASH= 2401[7'10 $\frac{1}{2}$ "]-2700mm[8'10 $\frac{1}{4}$ "]			
MA0298	KEEPER FASTENER		2	$H \leq 1800 \text{ mm}[70\frac{7}{8}"]$ 6
			3	$H \geq 1801 \text{ mm}[70\frac{7}{8}"]$ 9
			1	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$ 3
MA9105	CONNECTING BAR SASH L=720mm[2'4 $\frac{3}{8}$ "]-1500mm[4'11"]		2	4
MA9106	CONNECTING BAR SASH L=1501mm[4'11"]-2000mm[6'6 $\frac{3}{4}$ "]			
MA9107	CONNECTING BAR SASH L=2001mm[6'6 $\frac{3}{4}$ "]-2500mm[8'2 $\frac{3}{8}$ "]			
MA9108	CONNECTING BAR SASH L=2501mm[8'2 $\frac{3}{8}$ "]-3265mm[10'8 $\frac{1}{2}$ "]			
MA9121	ANTI-LIFTING BLOCK		2	4
MA0185	LATCH FOR LOCK MA0194		2	6
	LATCH FOR LOCK MA0195		3	9
	LATCH FOR LOCK MA0196		3	9
	LATCH FOR LOCK MA0197		3	9
	LATCH FOR EXTENSION MA0155		1	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$ 3
MU0496	SCREW FH 3.5[$\frac{11}{16}$ "]X20[$\frac{3}{4}$ "]		4	8
MA0182	VENTILATION LATCH		1	if necessary 3
LIFTING-SLIDING SOLUTION FROM 330 kg [727 lbs] TO 440 kg [970 lbs]				
MA0172	KIT CARRIAGES LOAD CAPACITY 440 kg [970 lbs] (PAIR)		2	4

Technical drawing of a window system, showing a top view and two cross-sections.

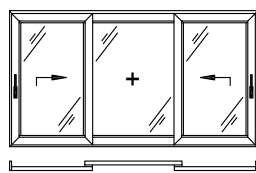
The top view shows a window frame with a central cross and arrows indicating movement. The cross-sections show the internal mechanism and components labeled with codes like NC13583, NC14251, NC14256, NC14253, NC14257, and NC14258. Dimensions $L/3$ and L are indicated.

Order lists

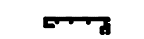
Frame 90°



QUANTITY PER TYPOLOGY

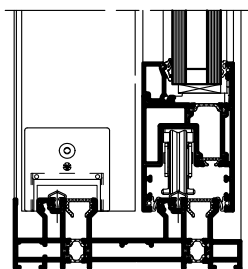


For the correct dimensioning of the sashes refer to:
-Static employment limits
-Executive limits of the hardware

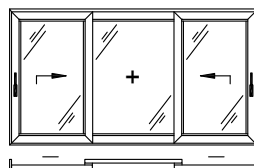
CODE	PROFILES	DESCRIPTION	QUANTITY	CUTTING		NOTE
NC14253		FRAME	2	H		
NC14256		FRAME	2	L-38[1½"]		
NC14251		SASH	6+6	L/3+36[1½"] H-76[3"]		
NC14257		INTERLOCK PROFILE	4	H-76[3"]		
NC14263		COMPLEMENTARY PROFILE	2	L/3		Indicative dimensions
NC6588		DRIP	1	L-38[1½"]		
-		GLASS STOP	6+6	L/3-116[4½"] H-272[10½"]		
CODE	ACCESSORIES		QUANTITY			NOTES
MA0170	WALL ADJUSTMENT		20-28			Acc. dimensions
MA0186	ANTI VIBRATION SPACER		12			
MA0200	TRACK GUIDE		1(L-38[1½"])			
MA0202	SASH CORNER KEY		12			
MA0203	ALIGNMENT CORNER KEY		12			
MA0205	PIN 3[11]X17[11]		24			
MA0206	SASH TOP MOULDED CORNER FOR MG067D		12			
MA0207	SASH BOTTOM MOULDED CORNER (PAIR)		6			
MA0210	WATER DRAINAGE BUSH		4-14			Acc. dimensions
MA0211	WATER DRAINAGE CAP		2			
MA0212	SASH EXTERIOR WEATHERSEAL CAPS		4			
MA0217	SASH TOP CENTERING DEVICE		8-20			Acc. dimensions
MA0223	SUPPORT FOR FIXED SASH		4			
MA0225	PLATE FOR MA0223		2			
MA0226	FASTENING WASHER		20-28			Acc. dimensions
MA0229	ANTI-SHOCK CAP		8			
MA0237	SCREW 4.8[11]X10[11] RH WASHER HEAD		8			
MA0238	CORNER KEY		12			
MA0240	SELF ADHESIVE PAD		2			
MA0243	SASH INTERIOR WEATHERSEAL CAPS		2			
MA0247	FRAME BOTTOM EATHERSEAL CAPS		2			
MA0248	FRAME TOP WEATHERSEAL CAPS		2			
MA0290	GLASS SHIMMING BASE		24			
MA4564	GLASS STOP GASKET IN PIECES (30mm[1½"])		36-60			Acc. dimensions
MA5521	WATER DRAINAGE CAP WITH MEMBRANE		2			
MA5550	PIN MADE OF ZAMAK FOR WINDOWS		24			
MA6337	PAN HEAD SCREW 4.2[11]X25[1"]		12-48			Acc. dimensions
MA9144	WATER DRAINAGE VALVE		2			
MA9160	WATER DRAINAGE VALVE		2			
MU0541	BUFFER STOP WITH PAN HEAD SCREW 4.2[11]X22[11]		8			
MU0572	PAN HEAD SCREW 4.2[11]X9.5[11] (STANDARD configuration)		6-24			Acc. dimensions
MU0706	SELF-TAPPING PAN HEAD SCREW 4.8[11]X16[11]		10			

Order lists

Frame 90°



For the correct dimensioning of the sashes refer to:
 -Static employment limits
 -Executive limits of the hardware



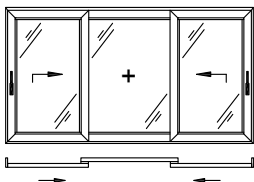
QUANTITY PER TYPOLOGY

CODE	GASKETS	QUANTITY	CUTTING	NOTES
STANDARD configuration				
MG040D	STROKE END GASKET	4	H-76 [3"]	
MG042S	BRUSH GASKET	2 + 4	L/3 ---- H-76 [3"]	
MG060P	SPACER FOR INTERLOCK PROFILE	4	H-76 [3"]	
MG063D	STROKE END GASKET	4	H-76 [3"]	
MG066D	SASH TOP WEATHERSEAL GASKET	2	L	Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	6	2L+4H	Indicative dimensions
MG068D	TRACK COVER	2	L-38[1½"]	
MG061P	JAMB COVER	2	H-92 [3½"]	
MG187P	TRACK COVER	3	L-38[1½"]	
MG386D	EXTERNAL GLAZING GASKET	8	2L+6H	Indicative dimensions
---	INTERNAL GLAZING GASKET	8	2L+6H	Indicative dimensions
MG671D	SPACER GASKET	2	L/3	If necessary
MG954P	SIDE FINISHING GASKET SASH	2	H-76 [3"]	
PLUS configuration				
MG031T	EXTERNAL GLAZING GASKET	8	2L+6H	Indicative dimensions
---	INTERNAL GLAZING GASKET	8	2L+6H	Indicative dimensions
MG040D	STROKE END GASKET	4	H-76 [3"]	
MG042S	BRUSH GASKET	2 + 4	L/3 ---- H-76 [3"]	
MG060P	SPACER FOR INTERLOCK PROFILE	4	H-76 [3"]	
MG063D	STROKE END GASKET	4	H-76 [3"]	
MG066D	SASH TOP WEATHERSEAL GASKET	2	L	Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	6	2L+4H	Indicative dimensions
MG068D	TRACK COVER	2	L-38[1½"]	
MG061P	JAMB COVER	2	H-92 [3½"]	
MG187P	TRACK COVER	3	L-38[1½"]	
MG188E	INSULATING GASKET	7	1L+6H	Indicative dimensions
MG189PS	INSULATING GASKET	2	H	
MG190PS	UNDER-GLASS INSULATING GASKET	8	2L+6H	Indicative dimensions
MG671D	SPACER GASKET	2	L/3	If necessary
	GLASSES	3	L/3-132 [5¾"]---- H-244[9½"]	

Order lists

Frame 90°

MGU hardware

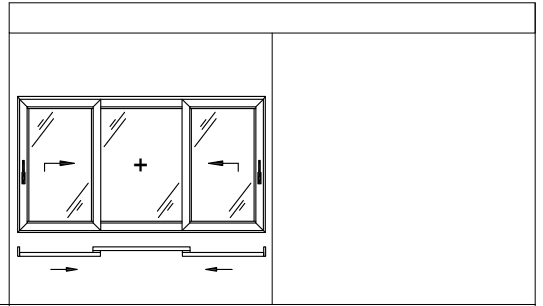
QUANTITA' PER TIPOLOGIA	
	

CODE	HANDLES	QUANTITY PER TYPOLOGY	
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	2	
MA2984	KIT SCREWS + SQUARE SPINDLE	2	
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	2	
MA2984	KIT SCREWS + SQUARE SPINDLE	2	
MS3080	HALF CYLINDER	2	
INSIDE / OUTSIDE: HANDLE + CYLINDER			
MA2988	DOUBLE PULL HANDLE HS ESSENCE	2	
MA2985	KIT SCREWS + SQUARE SPINDLE	2	
MS3076	CYLINDER	2	
CODE	HARDWARE		
MA0183	LOCK KEEPER	4	H ≤ 1855 mm[6'1"]
		6	H ≥ 1856 mm[6'1"]
MA0188	KEEPER SUPPORT	4	H ≤ 1855 mm[6'1"]
		6	H ≥ 1856 mm[6'1"]
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	2	optional
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0215	LIFT-AND-SLIDE BASE SET 300 kg [660 lb]	2	
MA0227	EXTENSION KIT FOR LIFT-AND-SLIDE LOCK WITH KEEPER	2	3000mm[9'11"]≤H≤3230mm[10'71"]
MA9014	ANTI-SHOCK CAP	2	
MA0298	KEEPER FASTENER	4	H ≤ 1855 mm[6'1"]
		6	H ≥ 1856 mm[6'1"]
MA9031	COVER	2	2730mm[8'112"]≤H≤3000mm[9'18"]
MA9032	VENTILATION KEEPER	2	
MA9051	LOCK E=47,5[18"] H SASH= 855mm[2'98"] -1275mm[4'24"]	2	
MA9052	LOCK E=47,5[18"] H SASH= 1276mm[4'24"] -1855mm[6'1"]		
MA9053	LOCK E=47,5[18"] H SASH= 1856mm[6'1"] -2355mm[7'84"]		
MA9054	LOCK E=47,5[18"] H SASH= 2356mm[7'84"] -2755mm[7'84"]		
MA9055	CONNECTING BAR SASH L=720mm[2'48"]-1600mm[5'3"]	2	
MA9056	CONNECTING BAR SASH L=1601[5'3"]-1850mm[6'18"]		
MA9057	CONNECTING BAR SASH L=1851mm[6'18"]-2350[7'84"]		
MA9058	CONNECTING BAR SASH L=2350mm[7'84"]-3300mm[10'98"]		
MA9079	LOCK SPRING FOR SASHES OVER 200 kg [440lb]	2	
MA9121	ANTI-LIFTING BLOCK	2	
MU0496	SELF TAPPING SCREW 3.5[1"]X20[34"]	4	
	LIFTING-SLIDING SOLUTION FROM 300 kg [660lb] TO 400 kg [880lb]		
MA9078	KIT CARRIAGES LOAD CAPACITY 400 kg [880 lbs] (PAIR)	2	

Order lists

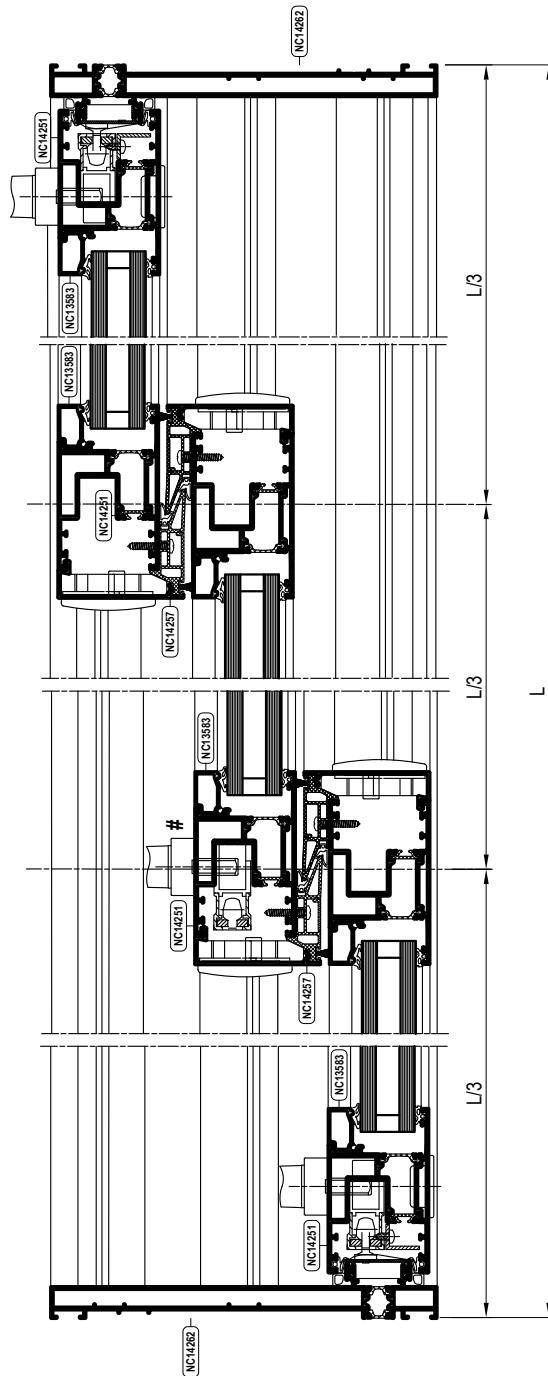
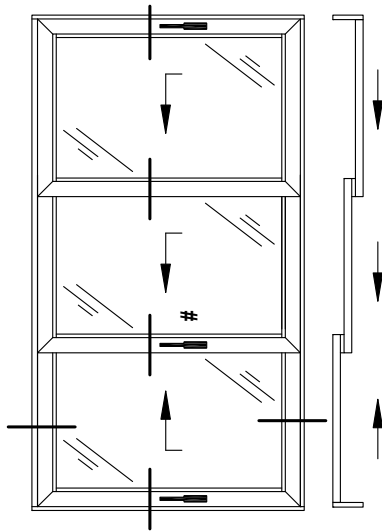
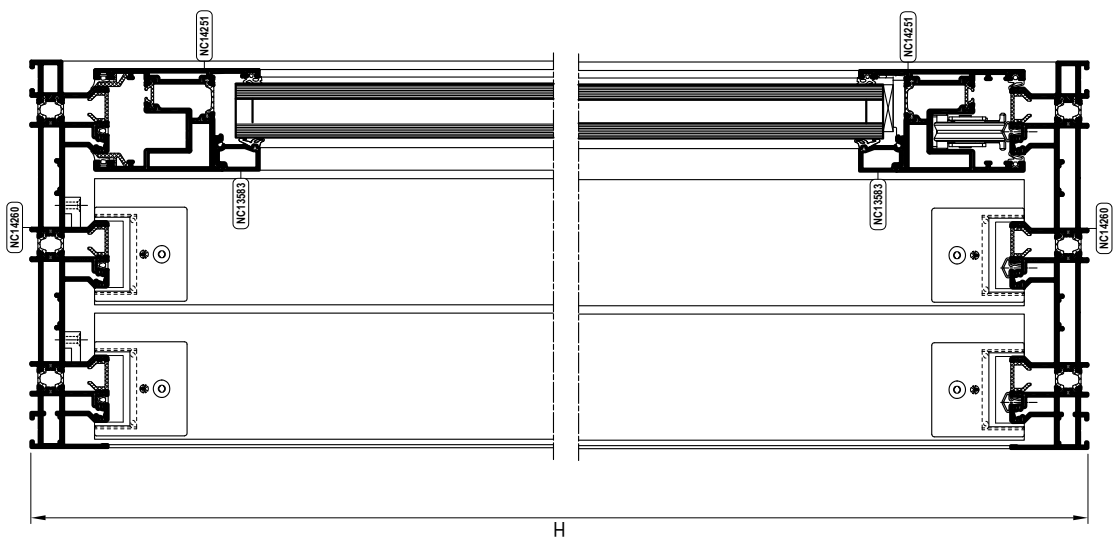
Frame 90°

MHA hardware



CODE		HANDLES	QUANTITY PER TYPOLOGY	
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP				
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE		2	
MA2984	KIT SCREWS + SQUARE SPINDLE		2	
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP				
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE		2	
MA2984	KIT SCREWS + SQUARE SPINDLE		2	
MS3080			2	
INSIDE / OUTSIDE: HANDLE + CYLINDER				
MA2988	DOUBLE PULL HANDLE HS ESSENCE		2	
MA2985	KIT SCREWS + SQUARE SPINDLE		2	
MS3076	CYLINDER		2	
CODE		HANDLES	QUANTITY PER TYPOLOGY	
MA0154	SHIM FOR EXTENSION MA0155		2	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MA0155	EXTENSION FOR LOCK COMPLETE WITH LOCKING POINTS		2	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MA0190	KIT HS SOFT LIFT (CANNOT BE USED WITH LOCK MA0194)		2	optional
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])		4	optional
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		6	
MA0198	LOCK KEEPER		2	$H \leq 1800 \text{ mm}[70\frac{7}{8}"]$
			2	$H \geq 1801 \text{ mm}[70\frac{7}{8}"]$
			2	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MA0193	LIFT-AND-SLIDE BASE SET 330 kg [727 lb]		2	
MA9117	ANTI-SHOCK CAP		2	
MA9118	VENTILATION KEEPER		2	
MA0194	LOCK H SASH= 1200mm[3'11 $\frac{1}{4}$ "]-1800mm[5'10 $\frac{7}{8}$ "]		2	
MA0195	LOCK H SASH= 1801mm[5'10 $\frac{7}{8}$ "]-2100mm[5'10 $\frac{5}{8}$ "]			
MA0196	LOCK H SASH= 2101mm[5'10 $\frac{5}{8}$ "]-2400mm[7'10 $\frac{1}{2}$ "]			
MA0197	LOCK H SASH= 2401[7'10 $\frac{1}{2}$ "]-2700mm[8'10 $\frac{1}{4}$ "]			
MA0298	KEEPER FASTENER		4	$H \leq 1800 \text{ mm}[70\frac{7}{8}"]$
			6	$H \geq 1801 \text{ mm}[70\frac{7}{8}"]$
			2	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MA9105	CONNECTING BAR SASH L=720mm[2'4 $\frac{3}{8}$ "]-1500mm[4'11"]		2	
MA9106	CONNECTING BAR SASH L=1501mm[4'11"]-2000mm[6'6 $\frac{3}{4}$ "]			
MA9107	CONNECTING BAR SASH L=2001mm[6'6 $\frac{3}{8}$ "]-2500mm[8'2 $\frac{3}{8}$ "]			
MA9108	CONNECTING BAR SASH L=2501mm[8'2 $\frac{3}{8}$ "]-3265mm[10'8 $\frac{1}{2}$ "]			
MA9121	ANTI-LIFTING BLOCK		2	
MA0185	LATCH FOR LOCK MA0194		4	
	LATCH FOR LOCK MA0195		6	
	LATCH FOR LOCK MA0196		6	
	LATCH FOR LOCK MA0197		6	
	LATCH FOR EXTENSION MA0155		2	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MU0496	SCREW FH 3.5[$\frac{1}{8}$ "]X20[$\frac{3}{4}$ "]		4	
MA0182	VENTILATION LATCH		2	if necessary
	LIFTING-SLIDING SOLUTION FROM 330 kg [727 lbs] TO 440 kg [970 lbs]			
MA0172	KIT CARRIAGES LOAD CAPACITY 440 kg [970 lbs] (PAIR)		2	

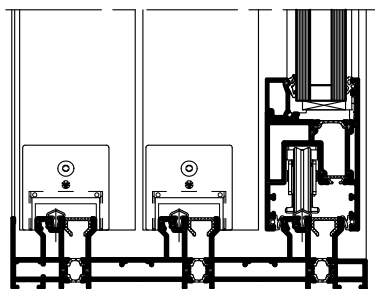
Order lists
3 sashes on 3 tracks
Frame 90°



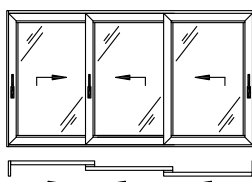
#For the fixing of the handle use threaded screws on the profiles
do not use the external concave handle in the package

Order lists

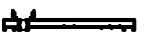
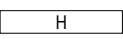
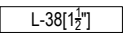
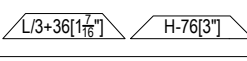
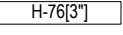
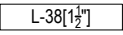
Frame 90°



QUANTITY PER TYPOLOGY

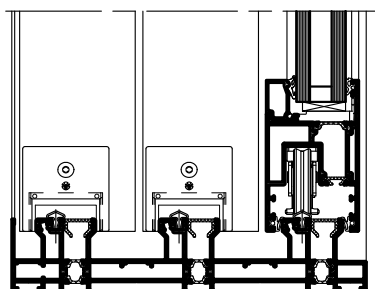


For the correct dimensioning of the sashes refer to:
 -Static employment limits
 -Executive limits of the hardware

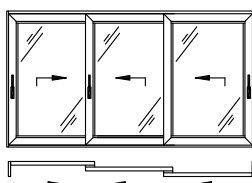
CODE	PROFILES	DESCRIPTION	QUANTITY	CUTTING		NOTES
NC14262		FRAME	2			
NC14260		FRAME	2			
NC14251		SASH	6+6			
NC14257		INTERLOCK PROFILE	4			
NC6588		DRIP	1			
-		GLASS STOP	6+6			
CODE	ACCESSORIES		QUANTITY			NOTES
MA0170	WALL ADJUSTMENT		20-28			Acc. dimensions
MA0186	ANTI VIBRATION SPACER		12			
MA0200	TRACK GUIDE		3 (L-38[1 1/2"])			
MA0202	SASH CORNER KEY		12			
MA0203	ALIGNMENT CORNER KEY		12			
MA0205	PIN 3[1/8"]X17[5/8"]		24			
MA0206	SASH TOP MOULDED CORNER FOR MG067D		12			
MA0207	SASH BOTTOM MOULDED CORNER (PAIR)		6			
MA0210	WATER DRAINAGE BUSH		2-7			Acc. dimensions
MA0211	WATER DRAINAGE CAP		1			
MA0212	SASH EXTERIOR WEATHERSEAL CAPS		4			
MA0217	SASH TOP CENTERING DEVICE		12-30			Acc. dimensions
MA0226	FASTENING WASHER		20-28			Acc. dimensions
MA0229	ANTI-SHOCK CAP		8			
MA0237	SCREW 4.8[1/4"]X10[3/8"] RH WASHER HEAD		8			
MA0238	CORNER KEY		12			
MA0243	SASH INTERIOR WEATHERSEAL CAPS		2			
MA0247	FRAME BOTTOM EATHERSEAL CAPS		2			
MA0248	FRAME TOP WEATHERSEAL CAPS		2			
MA0290	GLASS SHIMMING BASE		24			
MA0292	SELF ADHESIVE PAD		2			
MA4564	GLASS STOP GASKET IN PIECES (30mm[1 1/8"])		30-60			Acc. dimensions
MA5550	PIN		24			
MA6337	PAN HEAD SCREW 4.2[1/8"]X25[1"]		12-48			Acc. dimensions
MA9144	WATER DRAINAGE VALVE		1			
MA9160	WATER DRAINAGE VALVE		4			
MU0541	BUFFER STOP WITH PAN HEAD SCREW 4.2[1/8"]X22[7/8"]		12			
MU0572	PAN HEAD SCREW 4.2[1/8"]X9.5[3/8"] (STANDARD configuration)		6-24			Acc. dimensions

Order lists

Frame 90°



QUANTITY PER TYPOLOGY



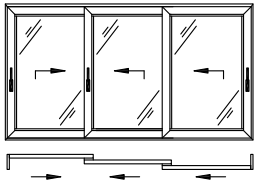
For the correct dimensioning of the sashes refer to:
 -Static employment limits
 -Executive limits of the hardware

CODE	GASKETS	QUANTITY	CUTTING		NOTES
STANDARD configuration					
MG040D	STROKE END GASKET	4	H-76 [3"]		
MG042S	BRUSH GASKET	4	H-76 [3"]		
MG060P	SPACER FOR INTERLOCK PROFILE	4	H-76 [3"]		
MG063D	STROKE END GASKET	4	H-76 [3"]		
MG066D	SASH TOP WEATHERSEAL GASKET	2	L		Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	6	2L+4H		Indicative dimensions
MG068D	TRACK COVER	3	L-38[1½"]		
MG061P	JAMB COVER	2	H-92 [3⅝"]		
MG187P	TRACK COVER	6	L-38[1½"]		
MG386D	EXTERNAL GLAZING GASKET	8	2L+6H		Indicative dimensions
---	INTERNAL GLAZING GASKET	8	2L+6H		Indicative dimensions
MG954P	SIDE FINISHING GASKET SASH	2	H-76 [3"]		
PLUS configuration					
MG031T	EXTERNAL GLAZING GASKET	8	2L+6H		Indicative dimensions
---	INTERNAL GLAZING GASKET	8	2L+6H		Indicative dimensions
MG040D	STROKE END GASKET	4	H-76 [3"]		
MG042S	BRUSH GASKET	4	H-76 [3"]		
MG060P	SPACER FOR INTERLOCK PROFILE	4	H-76 [3"]		
MG063D	STROKE END GASKET	4	H-76 [3"]		
MG066D	SASH TOP WEATHERSEAL GASKET	2	L		Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	6	2L+4H		Indicative dimensions
MG068D	TRACK COVER	3	L-38[1½"]		
MG061P	JAMB COVER	2	H-92 [3⅝"]		
MG187P	TRACK COVER	6	L-38[1½"]		
MG188E	INSULATING GASKET	7	1L+6H		Indicative dimensions
MG189PS	INSULATING GASKET	2	H		
MG190PS	UNDER-GLASS INSULATING GASKET	8	2L+6H		Indicative dimensions
	GLASSES	3	L/3-132 [5⅜"] --- H-244[9⅝"]		

Order lists

Frame 90°

MGU hardware

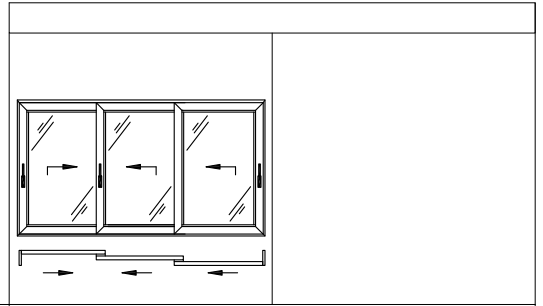
QUANTITY PER TYPOLOGY	
	

CODE	HANDLES		
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	1 - 3	
MA2984	KIT SCREWS + SQUARE SPINDLE	1 - 3	
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	2	
MA2984	KIT SCREWS + SQUARE SPINDLE	2	
MS3080	HALF CYLINDER	2	
INSIDE / OUTSIDE: HANDLE + CYLINDER			
MA2988	DOUBLE PULL HANDLE HS ESSENCE	2	
MA2985	KIT SCREWS + SQUARE SPINDLE	2	
MS3076	CYLINDER	2	
CODE	HARDWARE		
MA0183	LOCK KEEPER	4	H ≤ 1855 mm[6'1"]
		6	H ≥ 1856 mm[6'1"]
MA0188	KEEPER SUPPORT	4	H ≤ 1855 mm[6'1"]
		6	H ≥ 1856 mm[6'1"]
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	3	optional
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0215	LIFT-AND-SLIDE BASE SET 300 kg [660 lb]	3	
MA0227	EXTENSION KIT FOR LIFT-AND-SLIDE LOCK WITH KEEPER	2	3000mm[9'1 ¹ / ₈ "]≤H≤3230mm[10'7 ¹ / ₈ "]
MA9014	ANTI-SHOCK CAP	2	
MA0298	KEEPER FASTENER	4	H ≤ 1855 mm[6'1"]
		6	H ≥ 1856 mm[6'1"]
MA9031	COVER	2	2730mm[8'1 ¹ / ₂ "]≤H≤3000mm[9'1 ¹ / ₈ "]
MA9032	VENTILATION KEEPER	2	
MA9051	LOCK E=47,5[1 ⁷ / ₈ "] H SASH= 855mm[2'9 ⁵ / ₈ "] -1275mm[4'2 ¹ / ₄ "]	3	
MA9052	LOCK E=47,5[1 ⁷ / ₈ "] H SASH= 1276mm[4'2 ¹ / ₄ "] -1855mm[6'1"]		
MA9053	LOCK E=47,5[1 ⁷ / ₈ "] H SASH= 1856mm[6'1"] -2355mm[7'8 ³ / ₄ "]		
MA9054	LOCK E=47,5[1 ⁷ / ₈ "] H SASH= 2356mm[7'8 ³ / ₄ "] -2755mm[7'8 ³ / ₄ "]		
MA9055	CONNECTING BAR SASH L=720mm[2'4 ³ / ₈ "]-1600mm[5'3"]	3	
MA9056	CONNECTING BAR SASH L=1601[5'3"]-1850mm[6 ¹ / ₈ "]		
MA9057	CONNECTING BAR SASH L=1851mm[6 ⁷ / ₈ "]-2350[7'8 ¹ / ₂ "]		
MA9058	CONNECTING BAR SASH L=2350mm[7'8 ¹ / ₂ "]-3300mm[10'9 ⁷ / ₈ "]		
MA9079	LOCK SPRING FOR SASHES OVER 200 kg [440lb]	3	
MA9121	ANTI-LIFTING DEVICE	3	
MU0496	SELF TAPPING SCREW 3.5[¹ / ₈ "]X20[³ / ₄ "]	6	
	LIFTING-SLIDING SOLUTION FROM 300 kg [660lb] TO 400 kg [880lb]		
MA9078	KIT CARRIAGES LOAD CAPACITY 400 kg [880 lbs] (PAIR)	3	

Order lists

Frame 90°

MHA hardware

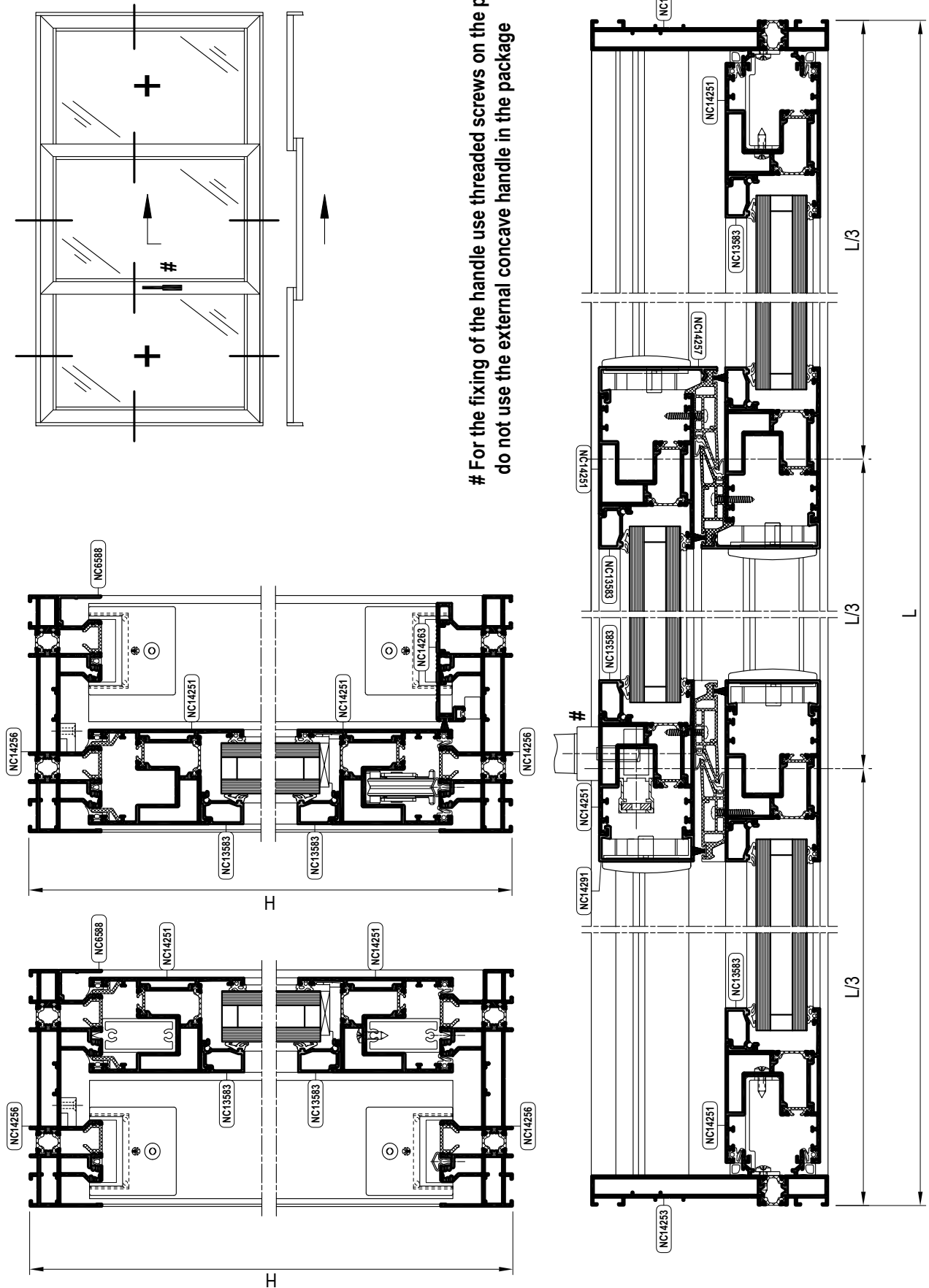


CODE		HANDLES	QUANTITY PER TYPOLOGY	
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP				
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE		1 - 3	
MA2984	KIT SCREWS + SQUARE SPINDLE		1 - 3	
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP				
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE		2	
MA2984	KIT SCREWS + SQUARE SPINDLE		2	
MS3080	HALF CYLINDER		2	
INSIDE / OUTSIDE: HANDLE + CYLINDER				
MA2988	DOUBLE PULL HANDLE HS ESSENCE		2	
MA2985	KIT SCREWS + SQUARE SPINDLE		2	
MS3076	CYLINDER		2	
CODE		HANDLES	QUANTITY PER TYPOLOGY	
MA0154	SHIM FOR EXTENSION MA0155		2	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MA0155	EXTENSION FOR LOCK COMPLETE WITH LOCKING POINTS		2	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MA0190	KIT HS SOFT LIFT (CANNOT BE USED WITH LOCK MA0194)		3	optional
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])		3	optional
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])			
MA0198	LOCK KEEPER		4	$H \leq 1800 \text{ mm}[70\frac{7}{8}"]$
			6	$H \geq 1801 \text{ mm}[70\frac{7}{8}"]$
			2	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MA0193	LIFT-AND-SLIDE BASE SET 330 kg [727 lb]		3	
MA9117	ANTI-SHOCK CAP		2	
MA9118	SECURITY KIT		2	
MA0194	LOCK H SASH= 1200mm[3'11 $\frac{1}{4}$ "]-1800mm[5'10 $\frac{3}{8}$ "]		3	
MA0195	LOCK H SASH= 1801mm[5'10 $\frac{7}{8}$ "]-2100mm[5'10 $\frac{3}{8}$ "]			
MA0196	LOCK H SASH= 2101mm[5'10 $\frac{3}{8}$ "]-2400mm[7'10 $\frac{1}{2}$ "]			
MA0197	LOCK H SASH= 2401[7'10 $\frac{1}{2}$ "]-2700mm[8'10 $\frac{1}{4}$ "]			
MA0298	KEEPER FASTENER		4	$H \leq 1800 \text{ mm}[70\frac{7}{8}"]$
			6	$H \geq 1801 \text{ mm}[70\frac{7}{8}"]$
			2	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MA9105	CONNECTING BAR SASH L=720mm[2'4 $\frac{3}{8}$ "]-1500mm[4'11"]		3	
MA9106	CONNECTING BAR SASH L=1501mm[4'11"]-2000mm[6'6 $\frac{3}{4}$ "]			
MA9107	CONNECTING BAR SASH L=2001mm[6'6 $\frac{3}{4}$ "]-2500mm[8'2 $\frac{3}{8}$ "]			
MA9108	CONNECTING BAR SASH L=2501mm[8'2 $\frac{3}{8}$ "]-3265mm[10'8 $\frac{1}{2}$ "]			
MA9121	ANTI-LIFTING BLOCK		3	
MA0185	LATCH FOR LOCK MA0194		4	
	LATCH FOR LOCK MA0195		6	
	LATCH FOR LOCK MA0196		6	
	LATCH FOR LOCK MA0197		6	
	LATCH FOR EXTENSION MA0155		2	
MU0496	SCREW FH 3.5[$\frac{11}{16}$ "]X20[$\frac{3}{4}$ "]		6	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MA0182	VENTILATION LATCH		2	if necessary
	LIFTING-SLIDING SOLUTION FROM 330 kg [727 lbs] TO 440 kg [970 lbs]			
MA0172	KIT CARRIAGES LOAD CAPACITY 440 kg [970 lbs] (PAIR)		3	

Order lists

2 fixed sashes with 1 central sliding sash

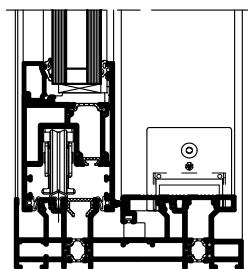
Frame 90°

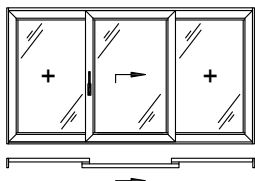


For the fixing of the handle use threaded screws on the profile
do not use the external concave handle in the package

Order lists

Frame 90°

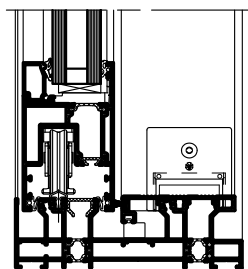


QUANTITY PER TYPOLOGY	
	For the correct dimensioning of the sashes refer to: -Static employment limits -Executive limits of the hardware

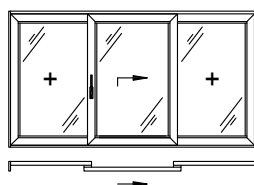
CODE	PROFILES	DESCRIPTION	QUANTITY	CUTTING		NOTES
NC14253		FRAME	2	H		
NC14256		FRAME	2	L-38[1½"]		
NC14251		SASH	6+6	L/3+36[1½"] H-76[3"]		
NC14257		INTERLOCK PROFILE	2	H-76[3"]		
NC14263		COMPLEMENTARY PROFILE	1	L/3		Indicative dimensions
NC6588		DRIP	1	L-38[1½"]		
-		GLASS STOP	6+6	L/3-116[4½"] H-272[10½"]		
NC14291		INTERLOCK PROFILE	2	H-76[3"]		
CODE	ACCESSORIES		QUANTITY			NOTES
MA0170	WALL ADJUSTMENT		20-28			Acc. dimensions
MA0186	ANTI VIBRATION SPACER		12			
MA0200	TRACK GUIDE		1 (L-38[1½"])			
MA0202	SASH CORNER KEY		12			
MA0203	ALIGNMENT CORNER KEY		12			
MA0205	PIN 3[8"]X17[8"]		24			
MA0206	SASH TOP MOULDED CORNER FOR MG067D		12			
MA0207	SASH BOTTOM MOULDED CORNER (PAIR)		6			
MA0210	WATER DRAINAGE BUSH		2-7			Acc. dimensions
MA0211	WATER DRAINAGE CAP		1			
MA0212	SASH EXTERIOR WEATHERSEAL CAPS		4			
MA0217	SASH TOP CENTERING DEVICE		4-10			Acc. dimensions
MA0223	SUPPORT FOR FIXED SASH		6			
MA0224	SUPPORT FOR FIXED SASH		4			
MA0225	PLATE FOR MA0223		2			
MA0226	FASTENING WASHER		20-28			Acc. dimensions
MA0237	SCREW 4.8[4"]X10[8"] RH WASHER HEAD		8			
MA0238	CORNER KEY		12			
MA0240	SELF ADHESIVE PAD		2			
MA0243	SASH INTERIOR WEATHERSEAL CAPS		2			
MA0247	FRAME BOTTOM EATHERSEAL CAPS		2			
MA0248	FRAME TOP WEATHERSEAL CAPS		2			
MA0290	GLASS SHIMMING BASE		24			
MA4564	GLASS STOP GASKET IN PIECES (30mm[1½"])		36-60			Acc. dimensions
MA5550	PIN		24			
MA6337	PAN HEAD SCREW 4.2[4"]X25[1"]		12-48			Acc. dimensions
MA9144	WATER DRAINAGE VALVE		1			
MA9160	WATER DRAINAGE VALVE		4			
MU0541	BUFFER STOP WITH PAN HEAD SCREW 4.2[4"]X22[8"]		8			
MU0706	PAN HEAD SCREW 4.2[4"]X9.5[8"] (STANDARD configuration)		26			

Order lists

Frame 90°



QUANTITY PER TYPOLOGY



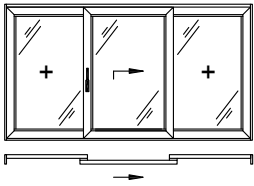
For the correct dimensioning of the sashes refer to:
 -Static employment limits
 -Executive limits of the hardware

CODE	GASKETS	QUANTITY	CUTTING		NOTES
MG040D	STROKE END GASKET	4	H-76 [3"]		
MG042S	BRUSH GASKET	1 + 4	L/3 ---- H-76 [3"]		
MG060P	SPACER FOR INTERLOCK PROFILE	4	H-76 [3"]		
MG063D	STROKE END GASKET	4	H-76 [3"]		
MG066D	SASH TOP WEATHERSEAL GASKET	2	L		Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	6	2L+4H		Indicative dimensions
MG068D	TRACK COVER	2	L-38 [1½"]		
MG061P	JAMB COVER	-	-		
MG186D	COVER GASKET	2	H-76 [3"]		
MG187P	TRACK COVER	3	L-38 [1½"]		
MG386D	EXTERNAL GLAZING GASKET	8	2L+6H		Indicative dimensions
---	INTERNAL GLAZING GASKET	8	2L+6H		Indicative dimensions
MG671D	SPACER GASKET	1	L/3		Indicative dimensions
PLUS configuration					
MG031T	EXTERNAL GLAZING GASKET	8	2L+6H		Indicative dimensions
---	INTERNAL GLAZING GASKET	8	2L+6H		Indicative dimensions
MG040D	STROKE END GASKET	4	H-76 [3"]		
MG042S	BRUSH GASKET	1 + 4	L/3 ---- H-76 [3"]		
MG060P	SPACER FOR INTERLOCK PROFILE	4	H-76 [3"]		
MG063D	STROKE END GASKET	4	H-76 [3"]		
MG066D	SASH TOP WEATHERSEAL GASKET	2	L		Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	6	2L+4H		Indicative dimensions
MG068D	TRACK COVER	2	L-38 [1½"]		
MG061P	JAMB COVER	-	-		
MG186D	COVER GASKET	2	H-76 [3"]		
MG187P	TRACK COVER	3	L-38 [1½"]		
MG188E	INSULATING GASKET	7	1L+6H		Indicative dimensions
MG189PS	INSULATING GASKET	2	H		
MG190PS	UNDER-GLASS INSULATING GASKET	8	2L+6H		Indicative dimensions
MG671D	SPACER GASKET	1	L/3		Indicative dimensions
	GLASS	3	L/3-132 [5½"] ---- H-244 [9½"]		

Order lists

Frame 90°

MGU hardware

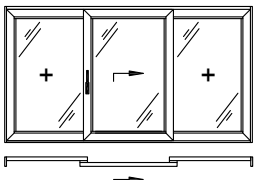
QUANTITY PER TYPOLOGY	
	

CODE	HANDLES		
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	1	
MA2984	KIT SCREWS + SQUARE SPINDLE	1	
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	1	
MA2984	KIT SCREWS + SQUARE SPINDLE	1	
MS3080	HALF CYLINDER	1	
CODE	HARDWARE		
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	1	optional
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0215	LIFT-AND-SLIDE BASE SET 300 kg [660 lb]	1	
MA9014	ANTI-SHOCK CAP	1	if necessary
MA9032	VENTILATION KEEPER	1	
MA9051	LOCK E=47,5[1 $\frac{7}{8}$ "] H SASH= 855mm[2'9 $\frac{5}{8}$ "] -1275mm[4'2 $\frac{1}{4}$ "]	1	
MA9052	LOCK E=47,5[1 $\frac{7}{8}$ "] H SASH= 1276mm[4'2 $\frac{1}{4}$ "] -1855mm[6'1"]		
MA9053	LOCK E=47,5[1 $\frac{7}{8}$ "] H SASH= 1856mm[6'1"] -2355mm[7'8 $\frac{3}{4}$ "]		
MA9054	LOCK E=47,5[1 $\frac{7}{8}$ "] H SASH= 2356mm[7'8 $\frac{3}{4}$ "] -2755mm[7'8 $\frac{3}{4}$ "]		
MA9055	CONNECTING BAR SASH L=720mm[2'4 $\frac{3}{8}$ "]-1600mm[5'3"]	1	
MA9056	CONNECTING BAR SASH L=1601[5'3"]-1850mm[6'1 $\frac{1}{8}$ "]		
MA9057	CONNECTING BAR SASH L=1851mm[6'1 $\frac{1}{8}$ "]-2350[7'8 $\frac{1}{2}$ "]		
MA9058	CONNECTING BAR SASH L=2350mm[7'8 $\frac{1}{2}$ "]-3300mm[10'9 $\frac{3}{8}$ "]		
MA9079	LOCK SPRING FOR SASHES OVER 200 kg [440lb]	1	
MA9121	ANTI-LIFTING BLOCK	1	
MU0496	SELF TAPPING SCREW 3.5[$\frac{11}{16}$ "]X20[$\frac{3}{4}$ "]	2	
	LIFTING-SLIDING SOLUTION FROM 300 kg [660lb] TO 400 kg [880lb]		
MA9078	KIT CARRIAGES LOAD CAPACITY 400 kg [880 lbs] (PAIR)	1	

Order lists

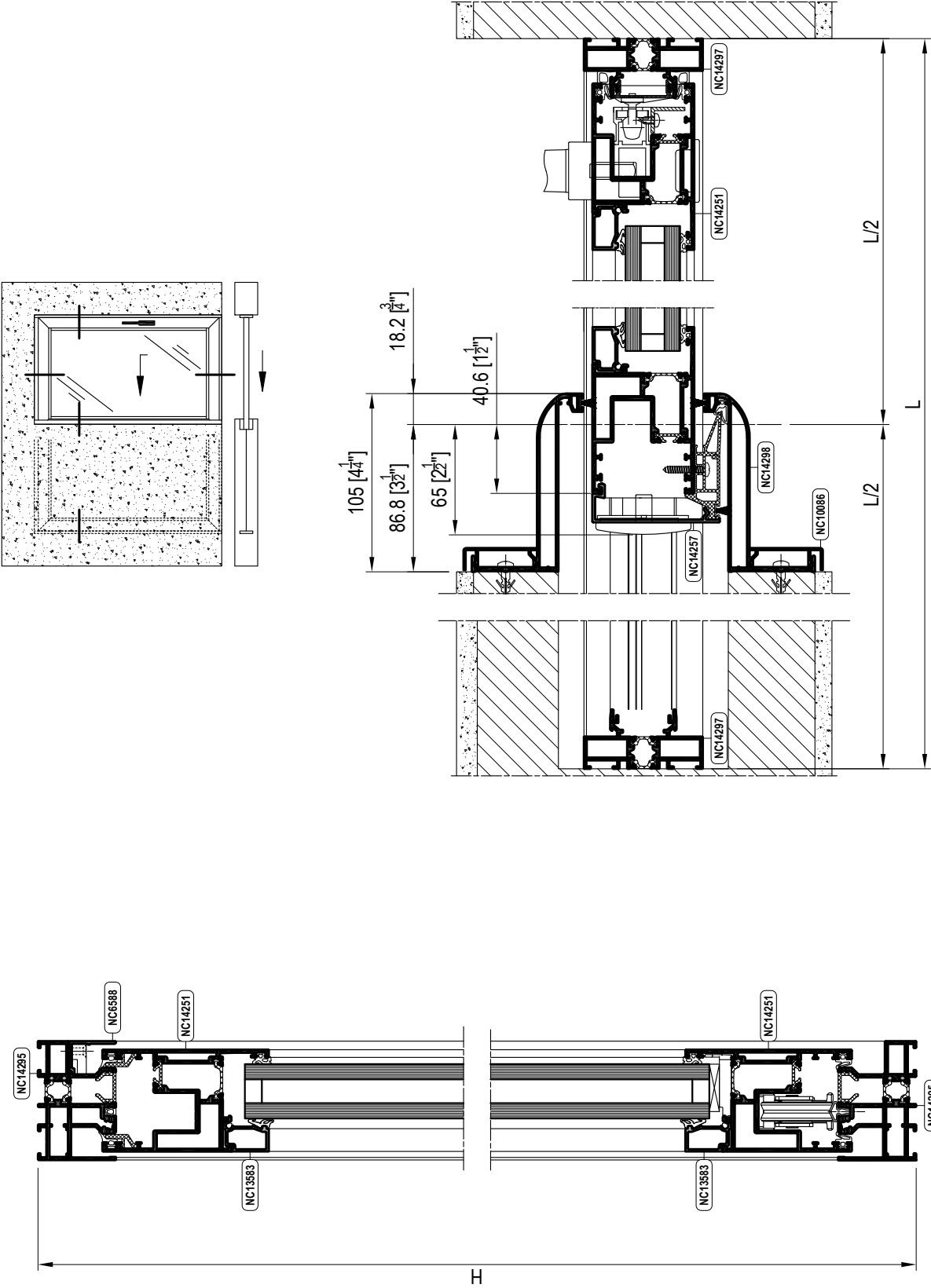
Frame 90°

MHA hardware

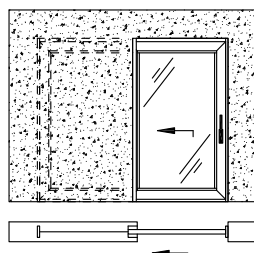
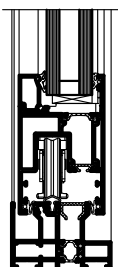
QUANTITY PER TYPOLOGY	
	

CODE	HANDLES		
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	1	
MA2984	KIT SCREWS + SQUARE SPINDLE	1	
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	1	
MA2984	KIT SCREWS + SQUARE SPINDLE	1	
MS3080	HALF CYLINDER	1	
CODE	HARDWARE		
MA0154	SHIM FOR EXTENSION MA0155	1	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MA0155	EXTENSION FOR LOCK COMPLETE WITH LOCKING POINTS	1	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MA0190	KIT HS SOFT LIFT (CANNOT BE USED WITH LOCK MA0194)	1	optional
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	1	optional
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0193	LIFT-AND-SLIDE BASE SET 330 kg [727 lb]	1	
MA9117	ANTI-SHOCK CAP	1	if necessary
MA9118	VENTILATION KEEPER	1	
MA0194	LOCK H SASH= 1200mm[3'11 $\frac{1}{4}$ "]-1800mm[5'10 $\frac{7}{8}$ "]	1	
MA0195	LOCK H SASH= 1801mm[5'10 $\frac{7}{8}$ "]-2100mm[5'10 $\frac{5}{8}$ "]		
MA0196	LOCK H SASH= 2101mm[5'10 $\frac{5}{8}$ "]-2400mm[7'10 $\frac{1}{2}$ "]		
MA0197	LOCK H SASH= 2401[7'10 $\frac{1}{2}$ "]-2700mm[8'10 $\frac{1}{4}$ "]		
MA9105	CONNECTING BAR SASH L=720mm[2'4 $\frac{3}{8}$ "]-1500mm[4'11"]	1	
MA9106	CONNECTING BAR SASH L=1501mm[4'11"]-2000mm[6'6 $\frac{3}{4}$ "]		
MA9107	CONNECTING BAR SASH L=2001mm[6'6 $\frac{3}{4}$ "]-2500mm[8'2 $\frac{3}{8}$ "]		
MA9108	CONNECTING BAR SASH L=2501mm[8'2 $\frac{3}{8}$ "]-3265mm[10'8 $\frac{1}{2}$ "]		
MA9121	ANTI-LIFTING BLOCK	1	
MU0496	SCREW FH 3.5[$\frac{1}{8}$ "]X20[$\frac{3}{4}$ "]	2	
LIFTING-SLIDING SOLUTION FROM 330 kg [727 lbs] TO 440 kg [970 lbs]			
MA0172	KIT CARRIAGES LOAD CAPACITY 440 kg [970 lbs] (PAIR)	1	

Order lists
1 sliding sash in the wall
Frame 90°



Frame 90°

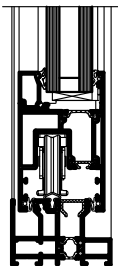


For the correct dimensioning of the sashes refer to:

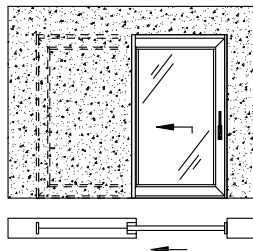
- Static employment limits
- Executive limits of the hardware

Order lists

Frame 90°



For the correct dimensioning of the sashes refer to:
-Static employment limits
-Executive limits of the hardware



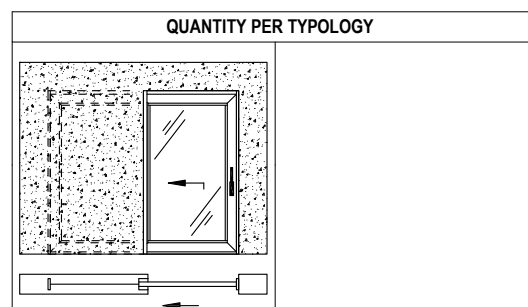
QUANTITY PER TYPOLOGY

CODE	GASKETS	QUANTITY	CUTTING		NOTES
STANDARD configuration					
MG040D	STROKE END GASKET	2	H-76 [3"]		
MG042S	BRUSH GASKET	2 + 1	H ---- H-76 [3"]		
MG060P	SPACER FOR INTERLOCK PROFILE	1	H-76 [3"]		
MG061P	JAMB COVER	1	H-92 [3 ⁵ / ₈ "]		
MG063D	STROKE END GASKET	1	H		
MG066D	SASH TOP WEATHERSEAL GASKET	2	L/2		Indicative dimensions
MG067D	SASH WEATHERSEAL GASKET	4	2L/2+2H		Indicative dimensions
MG068D	TRACK COVER	1	L-38 [1 ¹ / ₂ "]		
MG187P	COVER GASKET	2	L-38 [1 ¹ / ₂ "]		
MG386D	EXTERNAL GLAZING GASKET	4	2L/2+2H		Indicative dimensions
---	INTERNAL GLAZING GASKET	4	2L/2+2H		Indicative dimensions
MG954P	SIDE FINISHING GASKET SASH	1	H-76 [3"]		
PLUS configuration					
MG031T	EXTERNAL GLAZING GASKET	4	2L/2+2H		Indicative dimensions
---	INTERNAL GLAZING GASKET	4	2L/2+2H		Indicative dimensions
MG040D	STROKE END GASKET	2	H-76 [3"]		
MG042S	BRUSH GASKET	2 + 1	H ---- H-76 [3"]		
MG060P	SPACER FOR INTERLOCK PROFILE	1	H-76 [3"]		
MG061P	JAMB COVER	1	H-92 [3 ⁵ / ₈ "]		
MG063D	SPACER FOR INTERLOCK PROFILE	1	H		
MG066D	STROKE END GASKET	2	L/2		Indicative dimensions
MG067D	SASH TOP WEATHERSEAL GASKET	4	2L/2+2H		Indicative dimensions
MG068D	SASH WEATHERSEAL GASKET	1	L-38 [1 ¹ / ₂ "]		
MG187P	TRACK COVER	2	L-38 [1 ¹ / ₂ "]		
MG188E	INSULATING GASKET	3	1L/2+2H		Indicative dimensions
MG189PS	INSULATING GASKET	1	H		
MG190PS	UNDER-GLASS INSULATING GASKET	4	2L/2+2H		Indicative dimensions
	GLASS	1	L/2-154.5 [6 ¹ / ₈ "] ---- H-244[9 ⁵ / ₈ "]		

Order lists

Frame 90°

MGU hardware

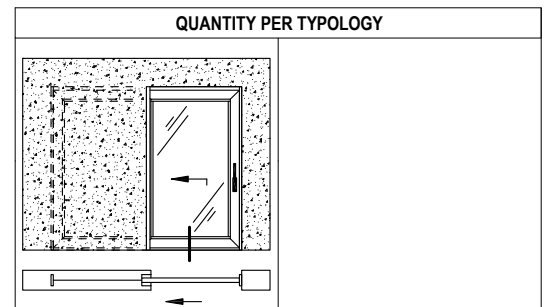


CODE		HANDLES		QUANTITY PER TYPOLOGY	
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP					
MA2989		PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE		1	
MA2984		KIT SCREWS + SQUARE SPINDLE		1	
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP					
MA2990		PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE		1	
MA2984		KIT SCREWS + SQUARE SPINDLE		1	
MS3080				1	
INSIDE / OUTSIDE: HANDLE + CYLINDER					
MA2988		DOUBLE PULL HANDLE HS ESSENCE		1	
MA2985		KIT SCREWS + SQUARE SPINDLE		1	
MS3076		CYLINDER		1	
CODE		HARDWARE			
MA0183		LOCK KEEPER		2	H ≤ 1855 mm[6'1"]
				3	H ≥ 1856 mm[6'1"]
MA0188		KEEPER SUPPORT		2	H ≤ 1855 mm[6'1"]
				3	H ≥ 1856 mm[6'1"]
MA0189		KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])		1	optional
MA0191		KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])			
MA0215		LIFT-AND-SLIDE BASE SET 300 kg [660 lb]		1	
MA0227		EXTENSION KIT FOR LIFT-AND-SLIDE LOCK WITH KEEPER		1	3000mm[9'11 ¹ / ₈ "]≤H≤3230mm[10'7 ¹ / ₈ "]
MA0298		KEEPER FASTENER		2	H ≤ 1855 mm[6'1"]
				3	H ≥ 1856 mm[6'1"]
MA9014		ANTI-SHOCK CAP		1	
MA9031		COVER		1	2730mm[8'11 ¹ / ₂ "]≤H≤3000mm[9'1 ¹ / ₈ "]
MA9032		VENTILATION KEEPER		1	
MA9051		LOCK E=47,5[1 ⁷ / ₈ "] H SASH= 855mm[2'9 ³ / ₈ "] -1275mm[4'2 ¹ / ₄ "]		1	
MA9052		LOCK E=47,5[1 ⁷ / ₈ "] H SASH= 1276mm[4'2 ¹ / ₄ "] -1855mm[6'1"]			
MA9053		LOCK E=47,5[1 ⁷ / ₈ "] H SASH= 1856mm[6'1"] -2355mm[7'8 ³ / ₄ "]			
MA9054		LOCK E=47,5[1 ⁷ / ₈ "] H SASH= 2356mm[7'8 ³ / ₄ "] -2755mm[7'8 ³ / ₄ "]			
MA9055		CONNECTING BAR SASH L=720mm[2'4 ³ / ₈ "]-1600mm[5'3"]		1	
MA9056		CONNECTING BAR SASH L=1601[5'3"]-1850mm[6'1 ¹ / ₈ "]			
MA9057		CONNECTING BAR SASH L=1851mm[6'1 ¹ / ₈ "]-2350[7'8 ¹ / ₂ "]			
MA9058		CONNECTING BAR SASH L=2350mm[7'8 ¹ / ₂ "]-3300mm[10'9 ⁷ / ₈ "]			
MA9079		LOCK SPRING FOR SASHES OVER 200 kg [440lb]		1	
MA9121		ANTI-LIFTING BLOCK		1	
MU0496		SELF TAPPING SCREW 3.5[¹ / ₈ "]X20[³ / ₄ "]		2	
LIFTING-SLIDING SOLUTION FROM 300 kg [660lb] TO 400 kg [880lb]					
MA9078		KIT CARRIAGES LOAD CAPACITY 400 kg [880 lbs] (PAIR)		1	

Order lists

Frame 90°

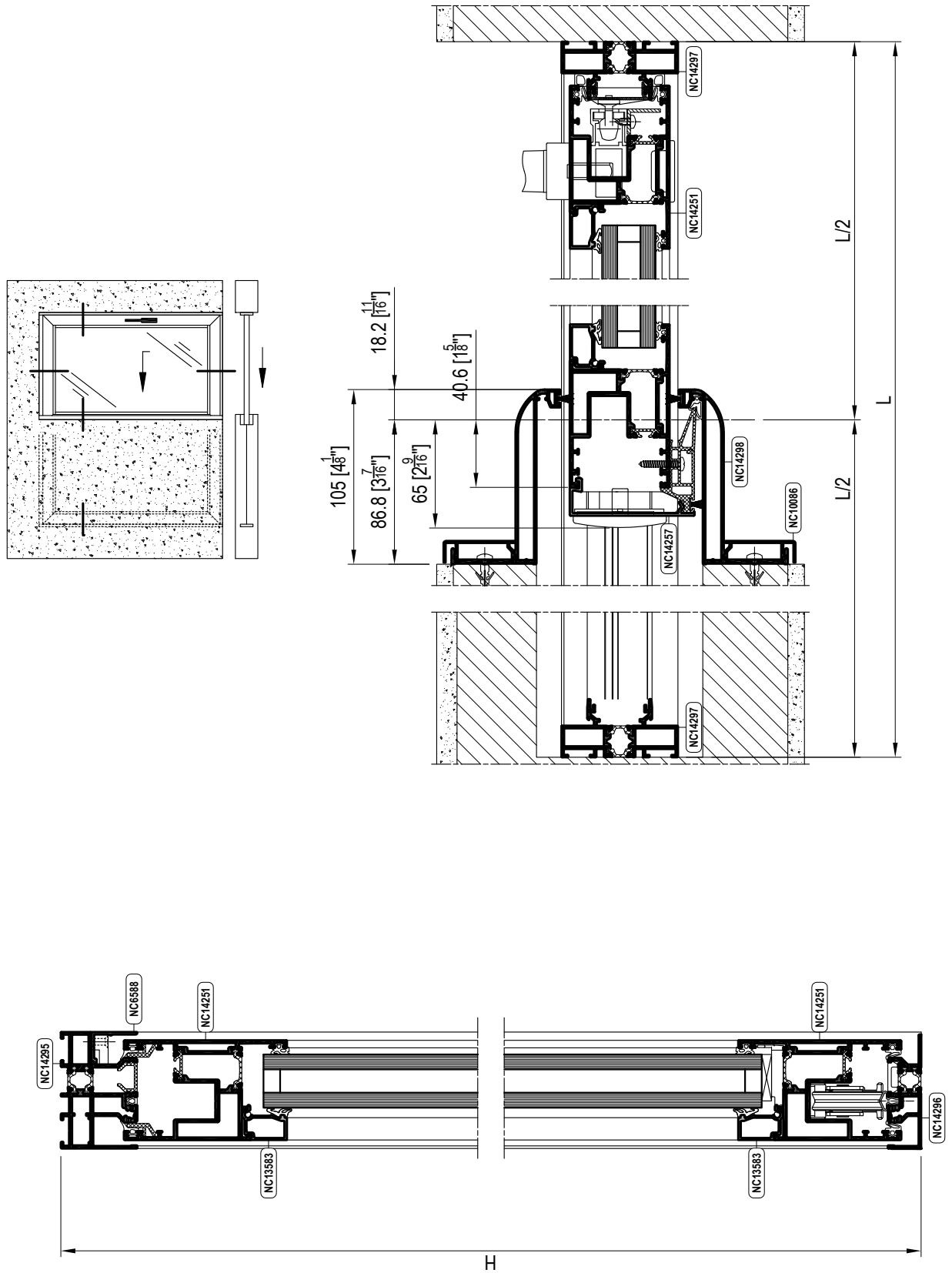
MHA hardware



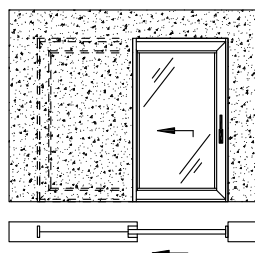
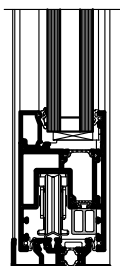
		QUANTITY PER TYPOLOGY	
CODE		HANDLES	
		QUANTITY PER TYPOLOGY	
		INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP	
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	1	
MA2984	KIT SCREWS + SQUARE SPINDLE	1	
		INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP	
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	1	
MA2984	KIT SCREWS + SQUARE SPINDLE	1	
MS3080	HALF CYLINDER	1	
		INSIDE / OUTSIDE: HANDLE + CYLINDER	
MA2988	DOUBLE PULL HANDLE HS ESSENCE	1	
MA2985	KIT SCREWS + SQUARE SPINDLE	1	
MS3076	CYLINDER	1	
CODE		HARDWARE	
MA0154	SHIM FOR EXTENSION MA0155	1	2700.1[106 ⁵ / ₁₆ "] ≤ H ≤ 3300 mm[129 ¹⁵ / ₁₆ "]
MA0155	EXTENSION FOR LOCK COMPLETE WITH LOCKING POINTS	1	2700.1[106 ⁵ / ₁₆ "] ≤ H ≤ 3300 mm[129 ¹⁵ / ₁₆ "]
MA0190	KIT HS SOFT LIFT (CANNOT BE USED WITH LOCK MA0194)	1	optional
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	1	optional
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0198	LOCK KEEPER	2	H ≤ 1800 mm [70 ⁷ / ₈ "]
		3	H ≥ 1801 mm [70 ⁷ / ₈ "]
		1	2700.1[106 ⁵ / ₁₆ "] ≤ H ≤ 3300 mm[129 ¹⁵ / ₁₆ "]
MA0193	LIFT-AND-SLIDE BASE SET 330 kg [727 lb]	1	
MA9117	ANTI-SHOCK CAP	1	
MA9118	SECURITY KIT	1	
MA0194	LOCK H SASH= 1200mm[3'11 ¹ / ₄ "]-1800mm[5'10 ³ / ₈ "]	1	
MA0195	LOCK H SASH= 1801mm[5'10 ⁷ / ₈ "]-2100mm[5'10 ³ / ₈ "]		
MA0196	LOCK H SASH= 2101mm[5'10 ³ / ₈ "]-2400mm[7'10 ¹ / ₂ "]		
MA0197	LOCK H SASH= 2401[7'10 ¹ / ₂ "]-2700mm[8'10 ¹ / ₄ "]		
MA0298	KEEPER FASTENER	2	H ≤ 1800 mm [70 ⁷ / ₈ "]
		3	H ≥ 1801 mm [70 ⁷ / ₈ "]
		1	2700.1[106 ⁵ / ₁₆ "] ≤ H ≤ 3300 mm[129 ¹⁵ / ₁₆ "]
MA9105	CONNECTING BAR SASH L=720mm[2'4 ³ / ₈ "]-1500mm[4'11"]	1	
MA9106	CONNECTING BAR SASH L=1501mm[4'11"]-2000mm[6'6 ³ / ₄ "]		
MA9107	CONNECTING BAR SASH L=2001mm[6'6 ³ / ₄ "]-2500mm[8'2 ³ / ₈ "]		
MA9108	CONNECTING BAR SASH L=2501mm[8'2 ³ / ₈ "]-3265mm[10'8 ¹ / ₂ "]		
MA9121	ANTI-LIFTING BLOCK	1	
MA0185	LATCH FOR LOCK MA0194	2	
	LATCH FOR LOCK MA0195	3	
	LATCH FOR LOCK MA0196	3	
	LATCH FOR LOCK MA0197	3	
	LATCH FOR EXTENSION MA0155	1	2700.1[106 ⁵ / ₁₆ "] ≤ H ≤ 3300 mm[129 ¹⁵ / ₁₆ "]
MU0496	SCREW FH 3.5[¹ / ₈ "]X20[³ / ₄ "]	2	
MA0182	VENTILATION LATCH	1	if necessary
		LIFTING-SLIDING SOLUTION FROM 330 kg [727 lbs] TO 440 kg [970 lbs]	
MA0172	KIT CARRIAGES LOAD CAPACITY 440 kg [970 lbs] (PAIR)	1	

Order lists

1 sliding sash in the wall with lowered threshold
Frame 90°



Frame 90°

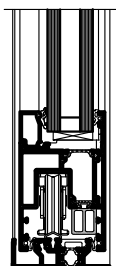


For the correct dimensioning of the sashes refer to:

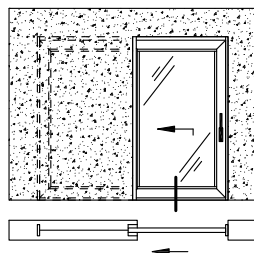
- Static employment limits
- Executive limits of the hardware

Order lists

Frame 90°



For the correct dimensioning of the sashes refer to:
 -Static employment limits
 -Executive limits of the hardware



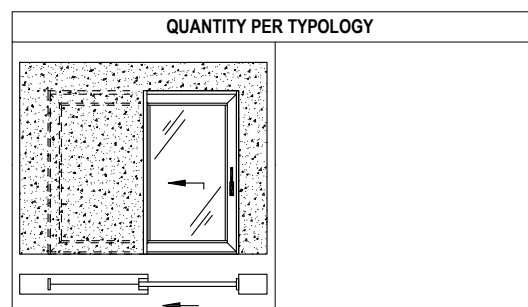
QUANTITY PER TYPOLOGY

CODE	GASKETS	QUANTITY	CUTTING		NOTES
Configurazione STANDARD					
MG040D	STROKE END GASKET	2	H-50[1 $\frac{15}{16}$ "		
MG041D	COVER GASKET	1	L-38[1 $\frac{1}{2}$ "		
MG042S	BRUSH GASKET	2 + 1	H ---- H-50[1 $\frac{15}{16}$ "		
MG060P	SPACER FOR INTERLOCK PROFILE	1	H-50[1 $\frac{15}{16}$ "		
MG061P	JAMB COVER	1	H-66 [2 $\frac{3}{8}$ "		
MG063D	STROKE END GASKET	1	H		
MG066D	SASH TOP WEATHERSEAL GASKET	2	L/2		Dimensioni indicative
MG067D	SASH WEATHERSEAL GASKET	4	2L/2+2H		Dimensioni indicative
MG068D	TRACK COVER	1	L-38[1 $\frac{1}{2}$ "		
MG187P	COVER GASKET	1	L-38[1 $\frac{1}{2}$ "		
MG386D	EXTERNAL GLAZING GASKET	4	2L/2+2H		Dimensioni indicative
---	INTERNAL GLAZING GASKET	4	2L/2+2H		Dimensioni indicative
MG954P	SIDE FINISHING GASKET SASH	1	H-50[1 $\frac{15}{16}$ "		
Configurazione PLUS					
MG031T	EXTERNAL GLAZING GASKET	4	2L/2+2H		Dimensioni indicative
---	INTERNAL GLAZING GASKET	4	2L/2+2H		Dimensioni indicative
MG040D	FINISHING GASKET	2	H-50[1 $\frac{15}{16}$ "		
MG041D	COVER GASKET	1	L-38[1 $\frac{1}{2}$ "		
MG042S	BRUSH GASKET	2 + 1	H ---- H-50[1 $\frac{15}{16}$ "		
MG060P	SPACER FOR INTERLOCK PROFILE	1	H-50[1 $\frac{15}{16}$ "		
MG061P	JAMB COVER	1	H-66 [2 $\frac{3}{8}$ "		
MG063D	STROKE END GASKET	1	H		
MG066D	SASH TOP WEATHERSEAL GASKET	2	L/2		Dimensioni indicative
MG067D	SASH WEATHERSEAL GASKET	4	2L/2+2H		Dimensioni indicative
MG068D	TRACK COVER	1	L-38[1 $\frac{1}{2}$ "		
MG187P	TRACK COVER	2	L-38[1 $\frac{1}{2}$ "		
MG188E	INSULATING GASKET	3	1L/2+2H		Dimensioni indicative
MG189PS	INSULATING GASKET	1	H		
MG190PS	UNDER-GLASS INSULATING GASKET	4	2L/2+2H		Dimensioni indicative
	GLASSES	1	L/2-154.5[6 $\frac{1}{16}$ " ---- H-218[8 $\frac{5}{8}$ "		

Order lists

Frame 90°

MGU hardware

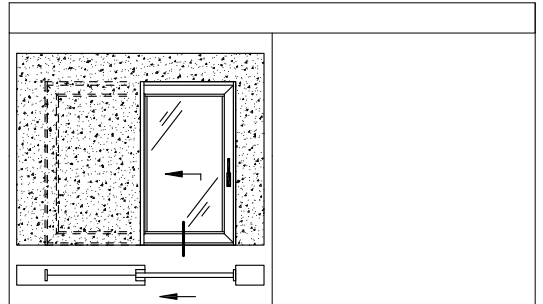


CODE	HANDLES	QUANTITY PER TYPOLOGY	
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP			
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE	1	
MA2984	KIT SCREWS + SQUARE SPINDLE	1	
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP			
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE	1	
MA2984	KIT SCREWS + SQUARE SPINDLE	1	
MS3080		1	
INSIDE / OUTSIDE: HANDLE + CYLINDER			
MA2988	DOUBLE PULL HANDLE HS ESSENCE	1	
MA2985	KIT SCREWS + SQUARE SPINDLE	1	
MS3076	CYLINDER	1	
CODE	HARDWARE		
MA0183	LOCK KEEPER	2	H ≤ 1855 mm[6'1"]
		3	H ≥ 1856 mm[6'1"]
MA0188	KEEPER SUPPORT	2	H ≤ 1855 mm[6'1"]
		3	H ≥ 1856 mm[6'1"]
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])	1	optional
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		
MA0215	LIFT-AND-SLIDE BASE SET 300 kg [660 lb]	1	
MA0227	EXTENSION KIT FOR LIFT-AND-SLIDE LOCK WITH KEEPER	1	3000mm[9'11 1⁄8"]≤H≤3230mm[10'7 1⁄8"]
MA0298	KEEPER FASTENER	2	H ≤ 1855 mm[6'1"]
		3	H ≥ 1856 mm[6'1"]
MA9014	ANTI-SHOCK CAP	1	
MA9031	COVER	1	2730mm[8'11 1⁄2"]≤H≤3000mm[9'11 1⁄8"]
MA9032	VENTILATION KEEPER	1	
MA9051	LOCK E=47,5[1 7⁄8"] H SASH= 855mm[2'9 3⁄8"] -1275mm[4'2 1⁄4"]	1	
MA9052	LOCK E=47,5[1 7⁄8"] H SASH= 1276mm[4'2 1⁄4"] -1855mm[6'1"]		
MA9053	LOCK E=47,5[1 7⁄8"] H SASH= 1856mm[6'1"] -2355mm[7'8 3⁄4"]		
MA9054	LOCK E=47,5[1 7⁄8"] H SASH= 2356mm[7'8 3⁄4"] -2755mm[7'8 3⁄4"]		
MA9055	CONNECTING BAR SASH L=720mm[2'4 3⁄8"]-1600mm[5'3"]	1	
MA9056	CONNECTING BAR SASH L=1601[5'3"]-1850mm[6'1 1⁄8"]		
MA9057	CONNECTING BAR SASH L=1851mm[6'1 1⁄8"]-2350[7'8 1⁄2"]		
MA9058	CONNECTING BAR SASH L=2350mm[7'8 1⁄2"]-3300mm[10'9 7⁄8"]		
MA9079	LOCK SPRING FOR SASHES OVER 200 kg [440lb]	1	
MA9121	ANTI-LIFTING BLOCK	1	
MU0496	SELF TAPPING SCREW 3.5[1 1⁄8"]X20[3 1⁄4"]	2	
LIFTING-SLIDING SOLUTION FROM 300 kg [660lb] TO 400 kg [880lb]			
MA9078	KIT CARRIAGES LOAD CAPACITY 400 kg [880 lbs] (PAIR)	1	

Order lists

Frame 90°

MHA hardware

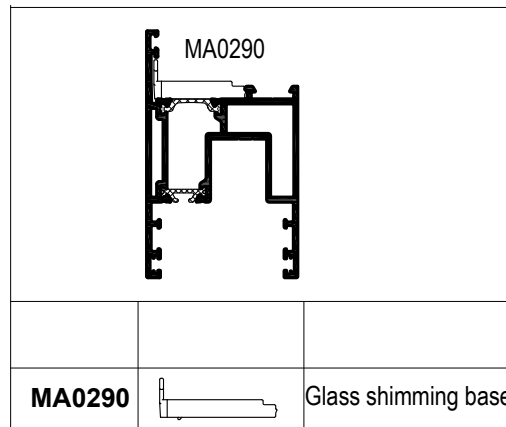


CODE		HANDLES	QUANTITY PER TYPOLOGY	
INSIDE: PULL HANDLE / OUTSIDE: FLUSH PULL GRIP				
MA2989	PULL HANDLE HS WITH FLUSH PULL GRIP ESSENCE		1	
MA2984	KIT SCREWS + SQUARE SPINDLE		1	
INSIDE: PULL HANDLE + CYLINDER / OUTSIDE: FLUSH PULL GRIP				
MA2990	PULL HANDLE HS WITH KEY HOLE AND FLUSH PULL GRIP ESSENCE		1	
MA2984	KIT SCREWS + SQUARE SPINDLE		1	
MS3080			1	
INSIDE / OUTSIDE: HANDLE + CYLINDER				
MA2988	DOUBLE PULL HANDLE HS ESSENCE		1	
MA2985	KIT SCREWS + SQUARE SPINDLE		1	
MS3076	CYLINDER		1	
CODE		HANDLES	QUANTITY PER TYPOLOGY	
MA0154	SHIM FOR EXTENSION MA0155		2	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MA0155	EXTENSION FOR LOCK COMPLETE WITH LOCKING POINTS		2	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MA0190	KIT HS SOFT LIFT (CANNOT BE USED WITH LOCK MA0194)		2	optional
MA0189	KIT HS COMFORT CLOSE (SASH WEIGHT UP TO 150 kg [330 lb])		4	optional
MA0191	KIT HS COMFORT CLOSE (SASH WEIGHT FROM 150 kg[330 lb] TO 300 kg[660lb])		6	
MA0198	LOCK KEEPER		2	$H \leq 1800 \text{ mm} [70\frac{7}{8}"]$
			2	$H \geq 1801 \text{ mm} [70\frac{7}{8}"]$
			2	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MA0193	LIFT-AND-SLIDE BASE SET 330 kg [727 lb]		2	
MA9117	ANTI-SHOCK CAP		2	
MA9118	VENTILATION KEEPER		2	
MA0194	LOCK H SASH= 1200mm[3'11 $\frac{1}{4}$ "]-1800mm[5'10 $\frac{7}{8}$ "]		2	
MA0195	LOCK H SASH= 1801mm[5'10 $\frac{7}{8}$ "]-2100mm[5'10 $\frac{5}{8}$ "]			
MA0196	LOCK H SASH= 2101mm[5'10 $\frac{5}{8}$ "]-2400mm[7'10 $\frac{1}{2}$ "]			
MA0197	LOCK H SASH= 2401[7'10 $\frac{1}{2}$ "]-2700mm[8'10 $\frac{1}{4}$ "]			
MA0298	KEEPER FASTENER		4	$H \leq 1800 \text{ mm} [70\frac{7}{8}"]$
			6	$H \geq 1801 \text{ mm} [70\frac{7}{8}"]$
			2	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MA9105	CONNECTING BAR SASH L=720mm[2'4 $\frac{3}{8}$ "]-1500mm[4'11"]		2	
MA9106	CONNECTING BAR SASH L=1501mm[4'11"]-2000mm[6'6 $\frac{3}{4}$ "]			
MA9107	CONNECTING BAR SASH L=2001mm[6'6 $\frac{3}{8}$ "]-2500mm[8'2 $\frac{3}{8}$ "]			
MA9108	CONNECTING BAR SASH L=2501mm[8'2 $\frac{3}{8}$ "]-3265mm[10'8 $\frac{1}{2}$ "]			
MA9121	ANTI-LIFTING BLOCK		2	
MA0185	LATCH FOR LOCK MA0194		4	
	LATCH FOR LOCK MA0195		6	
	LATCH FOR LOCK MA0196		6	
	LATCH FOR LOCK MA0197		6	
	LATCH FOR EXTENSION MA0155		2	$2700.1[106\frac{5}{8}"] \leq H \leq 3300 \text{ mm}[129\frac{15}{16}"]$
MU0496	SCREW FH 3.5[$\frac{11}{16}$ "]X20[$\frac{3}{4}$ "]		4	
MA0182	VENTILATION LATCH		2	if necessary
	LIFTING-SLIDING SOLUTION FROM 330 kg [727 lbs] TO 440 kg [970 lbs]			
MA0172	KIT CARRIAGES LOAD CAPACITY 440 kg [970 lbs] (PAIR)		2	

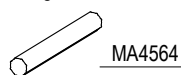
Glazing

STANDARD configuration

Outside Gasket	Glass Thickness	Inside Gasket	Glass Stop Size	Glass Stop
4 $\frac{3}{16}$ "	4 $\frac{1}{8}$ " D		40 $\frac{9}{16}$ "	NC13588
	5 $\frac{1}{8}$ " D			
	6 $\frac{1}{4}$ " C			
	7 $\frac{1}{4}$ " C			
	8 $\frac{1}{2}$ " B			
4 $\frac{3}{16}$ "	9 $\frac{1}{8}$ " D		35 $\frac{3}{8}$ "	NC13587
	10 $\frac{1}{8}$ " D			
	11 $\frac{1}{8}$ " C			
	12 $\frac{1}{4}$ " C			
	13 $\frac{1}{2}$ " B			
4 $\frac{3}{16}$ "	13 $\frac{1}{4}$ " D		30 $\frac{3}{16}$ "	NC13586
	14 $\frac{1}{8}$ " D			
	15 $\frac{1}{8}$ " D			
	16 $\frac{1}{8}$ " C			
	17 $\frac{1}{8}$ " C			
	18 $\frac{1}{2}$ " B			
4 $\frac{3}{16}$ "	19 $\frac{1}{4}$ " D		25 $1"$	NC13585
	20 $\frac{1}{8}$ " D			
	21 $\frac{1}{8}$ " C			
	22 $\frac{1}{4}$ " C			
	23 $\frac{1}{2}$ " B			
4 $\frac{3}{16}$ "	24 $\frac{1}{8}$ " D		20 $\frac{13}{16}$ "	NC13584
	25 $1"$ D			
	26 $1"$ C			
	27 $1\frac{1}{8}$ " C			
4 $\frac{3}{16}$ "	28 $1\frac{1}{8}$ " D		15 $\frac{9}{16}$ "	NC13583
	29 $1\frac{1}{8}$ " D			
	30 $1\frac{1}{8}$ " D			
	31 $1\frac{1}{4}$ " C			
	32 $1\frac{1}{4}$ " C			
	33 $1\frac{1}{2}$ " B			
4 $\frac{3}{16}$ "	34 $1\frac{1}{4}$ " D		10 $\frac{3}{8}$ "	NC13582
	35 $1\frac{1}{4}$ " D			
	36 $1\frac{1}{8}$ " C			
	37 $1\frac{1}{8}$ " C			
	38 $1\frac{1}{2}$ " B			
4 $\frac{3}{16}$ "	39 $1\frac{1}{8}$ " D		5 $\frac{3}{16}$ "	NC13581
	40 $1\frac{1}{8}$ " D			
	41 $1\frac{1}{8}$ " C			
	42 $1\frac{1}{8}$ " C			
	43 $1\frac{1}{4}$ " B			
4 $\frac{3}{16}$ "	44 $1\frac{1}{4}$ " C		2.5 $\frac{3}{16}$ "	NC13707
	45 $1\frac{1}{4}$ " C			
	46 $1\frac{1}{8}$ " B			



MG153D gaskets in metres

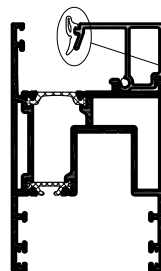
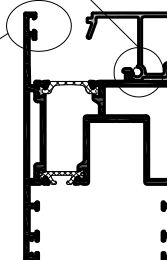
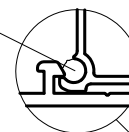


USE OF MA4564:

The number of the blocks depends on the length of the glass stop:

1000 $[3'-3\frac{3}{8}"]$ = 3 pcs
 from 1000 $[3'-3\frac{3}{8}"]$ - to 2000 $[6'-6\frac{3}{4}"]$ = 4 pcs
 from 2000 $[6'-6\frac{3}{4}"]$ - to 3000 $[9'-10\frac{3}{8}"]$ = 5 pcs

External gasket	Item number	Dimension
	MG386D	4 $\frac{3}{16}$ "
	MG770T	4 $\frac{3}{16}$ "



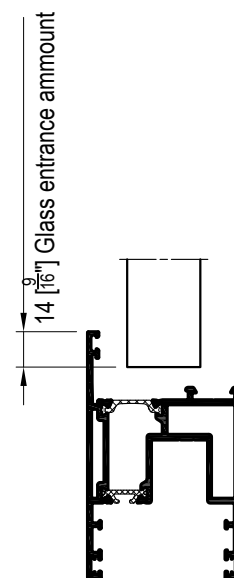
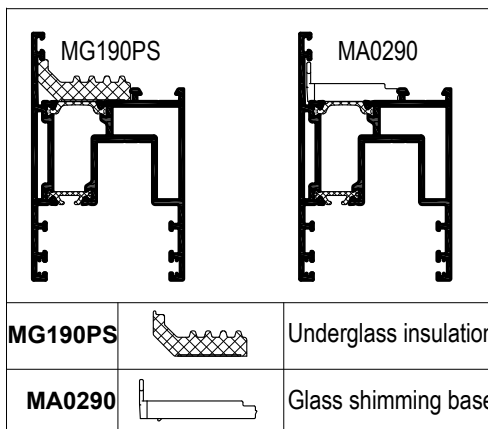
Internal gasket	Item	Acronym	Dimension
	MG612D ref. green	B	3 $\frac{1}{8}$ " - 3.5 $\frac{1}{8}$ "
	MG613D ref. white	C	4 $\frac{1}{8}$ " - 5.5 $\frac{1}{4}$ "
	MG614D ref. blue	D	6 $\frac{1}{4}$ " - 8 $\frac{3}{8}$ "

Note:

The technical sheet about glazing indicates theoretical nominal dimensions. The effective dimensions of glazing and profiles, depending on production tolerance, must always be verified. The possible difference between real dimensions and the nominal ones can be corrected by using a different internal gasket.

Glazing PLUS configuration

Outside Gasket Glass Thickness Inside Gasket	Glass Stop Size	Glass Stop
6 $\frac{1}{4}$ " 4 $\frac{1}{16}$ " C 5 $\frac{1}{16}$ " C 6 $\frac{1}{4}$ " B	40 [1 $\frac{9}{16}$ "]	NC13588
6 $\frac{1}{4}$ " 7 $\frac{1}{8}$ " D 8 $\frac{1}{16}$ " D 9 $\frac{1}{8}$ " C 10 $\frac{1}{8}$ " C 11 $\frac{1}{16}$ " B	35 [1 $\frac{3}{8}$ "]	NC13587
6 $\frac{1}{4}$ " 12 $\frac{1}{4}$ " D 13 $\frac{1}{8}$ " D 14 $\frac{1}{16}$ " D 15 $\frac{1}{8}$ " C 16 $\frac{1}{8}$ " B	30 [1 $\frac{3}{16}$ "]	NC13586
6 $\frac{1}{4}$ " 17 $\frac{1}{8}$ " D 18 $\frac{1}{16}$ " D 19 $\frac{1}{8}$ " C 20 $\frac{1}{8}$ " C 21 $\frac{1}{16}$ " B	25 [1"]	NC13585
6 $\frac{1}{4}$ " 22 $\frac{1}{8}$ " D 23 $\frac{1}{8}$ " D 24 $\frac{1}{16}$ " C 25 $\frac{1}{8}$ " C 26 $\frac{1}{8}$ " B	20 [13 $\frac{9}{16}$ "]	NC13584
6 $\frac{1}{4}$ " 27 $\frac{1}{16}$ " D 28 $\frac{1}{16}$ " D 29 $\frac{1}{8}$ " C 30 $\frac{1}{16}$ " C 31 $\frac{1}{4}$ " B	15 [9 $\frac{9}{16}$ "]	NC13583
6 $\frac{1}{4}$ " 32 $\frac{1}{4}$ " D 33 $\frac{1}{16}$ " D 34 $\frac{1}{16}$ " C 35 $\frac{1}{8}$ " C 36 $\frac{1}{16}$ " B	10 [8 $\frac{3}{8}$ "]	NC13582
6 $\frac{1}{4}$ " 37 $\frac{1}{16}$ " D 38 $\frac{1}{16}$ " D 39 $\frac{1}{8}$ " C 40 $\frac{1}{16}$ " C 41 $\frac{1}{16}$ " B	5 [3 $\frac{3}{16}$ "]	NC13581
6 $\frac{1}{4}$ " 42 $\frac{1}{8}$ " C 43 $\frac{1}{16}$ " C 44 $\frac{1}{8}$ " B	2.5 [3 $\frac{3}{16}$ "]	NC13707



MG153D gaskets in metres



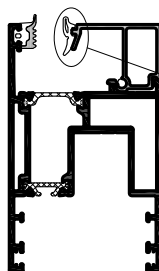
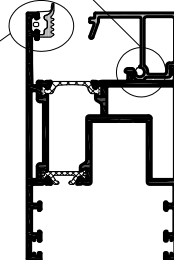
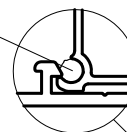
MA4564

USE OF MA4564:

The number of the blocks depends on the length of the glass stop:

1000 [3'-3 $\frac{3}{8}$ "] = 3 pcs
 from 1000 [3'-3 $\frac{3}{8}$ "] - to 2000 [6'-6 $\frac{3}{4}$ "] = 4 pcs
 from 2000 [6'-6 $\frac{3}{4}$ "] - to 3000 [9'-10 $\frac{1}{8}$ "] = 5 pcs

External gasket	Item number	Dimension
	MG031T	6 $\frac{1}{4}$ "



	Item	Acronym	Dimension
Internal gasket	 MG612D ref. green	B	3.5 [1 $\frac{1}{8}$ "] - 3.5 [1 $\frac{1}{8}$ "]
	 MG613D ref. white	C	4 [1 $\frac{1}{8}$ "] - 5.5 [1 $\frac{1}{4}$ "]
	 MG614D ref. blue	D	6 [1 $\frac{1}{4}$ "] - 8 [1 $\frac{3}{8}$ "]

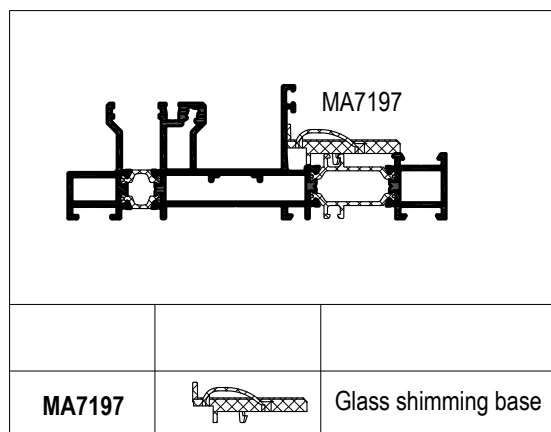
Note:

The technical sheet about glazing indicates theoretical nominal dimensions. The effective dimensions of glazing and profiles, depending on production tolerance, must always be verified. The possible difference between real dimensions and the nominal ones can be corrected by using a different internal gasket.

Glazing

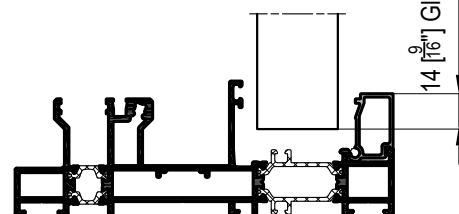
STANDARD configuration

Outside Gasket Glass Thickness	Inside Gasket	Glass Stop Size	Glass Stop
4 $\frac{3}{16}$ "	D	45 $\frac{3}{16}$ "	NC13589
5 $\frac{1}{8}$ "	D		
6 $\frac{1}{4}$ "	C		
7 $\frac{1}{2}$ "	C		
8 $\frac{3}{4}$ "	B		
9 $\frac{7}{8}$ "	D	40 $\frac{9}{16}$ "	NC13588
10 $1\frac{1}{16}$ "	D		
11 $1\frac{1}{8}$ "	C		
12 $1\frac{1}{4}$ "	C		
13 $1\frac{3}{8}$ "	B		
14 $1\frac{1}{2}$ "	D	35 $\frac{3}{8}$ "	NC13587
15 $1\frac{5}{8}$ "	D		
16 $1\frac{3}{4}$ "	C		
17 $1\frac{7}{8}$ "	C		
18 $2\frac{1}{16}$ "	B		
19 $2\frac{1}{8}$ "	D	30 $\frac{1}{16}$ "	NC13586
20 $2\frac{1}{4}$ "	D		
21 $2\frac{3}{8}$ "	C		
22 $2\frac{1}{2}$ "	C		
23 $2\frac{5}{8}$ "	B		
24 $2\frac{3}{4}$ "	D	25 $1\frac{1}{4}$ "	NC13585
25 $2\frac{7}{8}$ "	D		
26 $3\frac{1}{16}$ "	C		
27 $3\frac{1}{8}$ "	C		
28 $3\frac{1}{4}$ "	B		
29 $3\frac{3}{8}$ "	D	20 $\frac{9}{16}$ "	NC13584
30 $3\frac{1}{2}$ "	D		
31 $3\frac{5}{8}$ "	C		
32 $3\frac{3}{4}$ "	C		
33 $3\frac{7}{8}$ "	B		
34 $4\frac{1}{16}$ "	D	15 $\frac{5}{16}$ "	NC13583
35 $4\frac{1}{8}$ "	D		
36 $4\frac{1}{4}$ "	C		
37 $4\frac{3}{8}$ "	C		
38 $4\frac{1}{2}$ "	B		
39 $4\frac{5}{8}$ "	D	10 $\frac{3}{8}$ "	NC13582
40 $4\frac{3}{4}$ "	D		
41 $4\frac{7}{8}$ "	C		
42 $5\frac{1}{16}$ "	C		
43 $5\frac{1}{8}$ "	B		
44 $5\frac{1}{4}$ "	D	5 $\frac{3}{16}$ "	NC13581
45 $5\frac{3}{8}$ "	D		
46 $5\frac{1}{2}$ "	C		
47 $5\frac{5}{8}$ "	C		
48 $5\frac{3}{4}$ "	B		
49 $5\frac{7}{8}$ "	C	2.5 $\frac{1}{16}$ "	NC13707
50 $6\frac{1}{16}$ "	B		



MA7197

Glass shimming base

14 $\frac{9}{16}$ " Glass entrance amount

MG153D gaskets in metres



MA4564

USE OF MA4564:

The number of the blocks depends on the length of the glass stop:

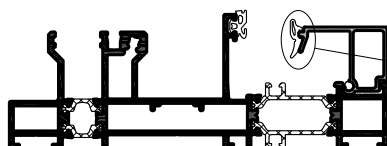
$$1000 [3'-3\frac{3}{8}"] = 3 \text{ pcs}$$

$$\text{from } 1000 [3'-3\frac{3}{8}"] - \text{to } 2000 [6'-6\frac{3}{4}"] = 4 \text{ pcs}$$

$$\text{from } 2000 [6'-6\frac{3}{4}"] - \text{to } 3000 [9'-10\frac{1}{8}"] = 5 \text{ pcs}$$

4 $\frac{3}{16}$ "4 $\frac{3}{16}$ "

	Item number	Dimension
External gasket	MG386D	4 $\frac{3}{16}$ "
	MG770T	4 $\frac{3}{16}$ "



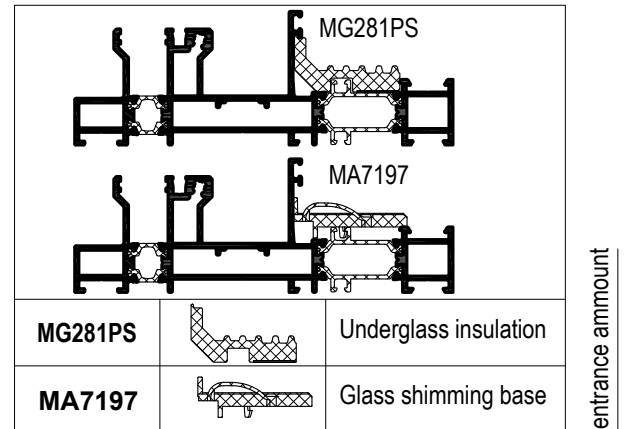
	Item	Acronym	Dimension
Internal gasket	MG612D ref. green	B	3.5 $\frac{1}{8}$ " - 3.5 $\frac{1}{8}$ "
	MG613D ref. white	C	4 $\frac{1}{8}$ " - 5.5 $\frac{1}{4}$ "
	MG614D ref. blue	D	6 $\frac{1}{4}$ " - 8 $\frac{3}{8}$ "

Note:

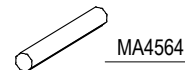
The technical sheet about glazing indicates theoretical nominal dimensions. The effective dimensions of glazing and profiles, depending on production tolerance, must always be verified. The possible difference between real dimensions and the nominal ones can be corrected by using a different internal gasket.

Glazing PLUS configuration

Outside Gasket	Glass Thickness	Inside Gasket	Glass Stop Size	Glass Stop
6 [1/4"]	4 [1/8"]	C	45 [1 3/4"]	NC13589
6 [1/4"]	5 [1/8"]	C		
6 [1/4"]	6 [1/8"]	B		
6 [1/4"]	7 [1/8"]	D	40 [1 5/8"]	NC13588
6 [1/4"]	8 [1/8"]	D		
6 [1/4"]	9 [1/8"]	C		
6 [1/4"]	10 [1/8"]	C		
6 [1/4"]	11 [1/8"]	B		
6 [1/4"]	12 [1/8"]	D	35 [1 3/8"]	NC13587
6 [1/4"]	13 [1/8"]	D		
6 [1/4"]	14 [1/8"]	C		
6 [1/4"]	15 [1/8"]	C		
6 [1/4"]	16 [1/8"]	B		
6 [1/4"]	17 [1/8"]	D	30 [1 1/8"]	NC13586
6 [1/4"]	18 [1/8"]	D		
6 [1/4"]	19 [1/8"]	C		
6 [1/4"]	20 [1/8"]	C		
6 [1/4"]	21 [1/8"]	B		
6 [1/4"]	22 [1/8"]	D	25 [1"]	NC13585
6 [1/4"]	23 [1/8"]	D		
6 [1/4"]	24 [1/8"]	C		
6 [1/4"]	25 [1/8"]	C		
6 [1/4"]	26 [1/8"]	B		
6 [1/4"]	27 [1/8"]	D	20 [13/16"]	NC13584
6 [1/4"]	28 [1/8"]	D		
6 [1/4"]	29 [1/8"]	C		
6 [1/4"]	30 [1/8"]	C		
6 [1/4"]	31 [1/8"]	B		
6 [1/4"]	32 [1/8"]	D	15 [9/16"]	NC13583
6 [1/4"]	33 [1/8"]	D		
6 [1/4"]	34 [1/8"]	C		
6 [1/4"]	35 [1/8"]	C		
6 [1/4"]	36 [1/8"]	B		
6 [1/4"]	37 [1/8"]	D	10 [3/8"]	NC13582
6 [1/4"]	38 [1/8"]	D		
6 [1/4"]	39 [1/8"]	C		
6 [1/4"]	40 [1/8"]	C		
6 [1/4"]	41 [1/8"]	B		
6 [1/4"]	42 [1/8"]	D	5 [3/16"]	NC13581
6 [1/4"]	43 [1/8"]	D		
6 [1/4"]	44 [1/8"]	C		
6 [1/4"]	45 [1/8"]	C		
6 [1/4"]	46 [1/8"]	B		
6 [1/4"]	47 [1/8"]	C	2.5 [3/16"]	NC13707
6 [1/4"]	48 [1/8"]	B		



MG153D gaskets in metres

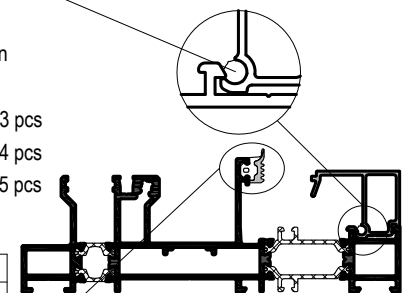


USE OF MA4564:

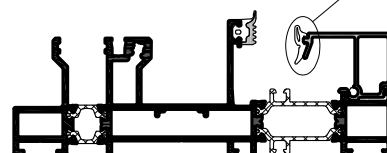
The number of the blocks depends on the length of the glass stops:

1000 [3'-3 3/8"] = 3 pcs
 from 1000 [3'-3 3/8"] - to 2000 [6'-6 3/4"] = 4 pcs
 from 2000 [6'-6 3/4"] - to 3000 [9'-10 1/8"] = 5 pcs

External gasket	Item number	Dimension
	MG031T	6 [1/4"]



Internal gasket	Item	Acronym	Dimension
	MG612D ref. green	B	3.5 [1/8"] - 3.5 [3/8"]
	MG613D ref. white	C	4 [1/8"] - 5.5 [1/4"]
	MG614D ref. blue	D	6 [1/4"] - 8 [3/8"]



Note:

The technical sheet about glazing indicates theoretical nominal dimensions. The effective dimensions of glazing and profiles, depending on production tolerance, must always be verified. The possible difference between real dimensions and the nominal ones can be corrected by using a different internal gasket.

Section

Group D

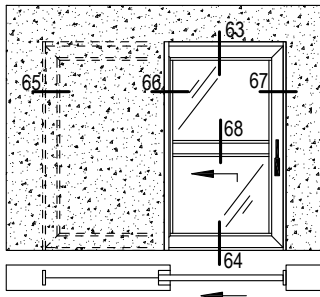
- Main sections in 1:1 scale with the respective accessories and space requirements

Feasible typologies

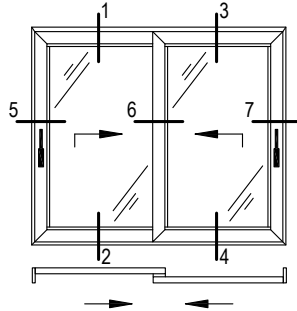
Frame 45° - Sash 45°

Lift and slide

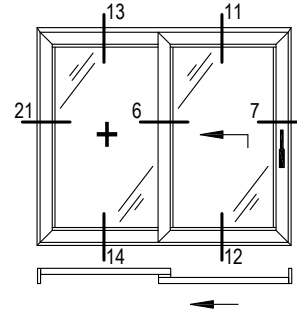
1 sash sliding in the wall



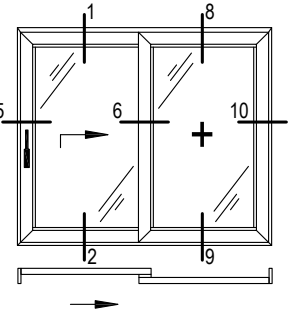
2 sliding sashes on 2 tracks



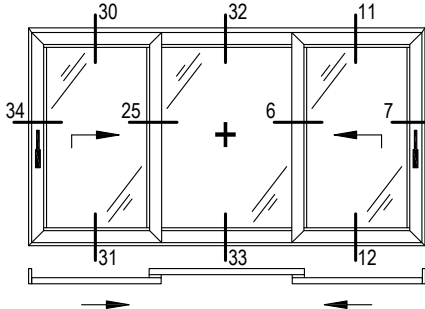
1 sliding sash with 1 fixed sash



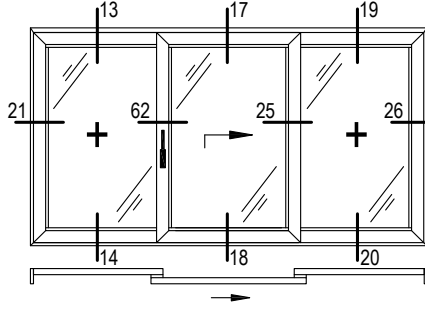
1 sliding sash with 1 fixed sash



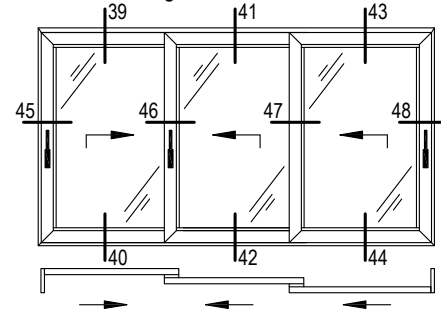
2 sliding sashes with 1 central fixed sash



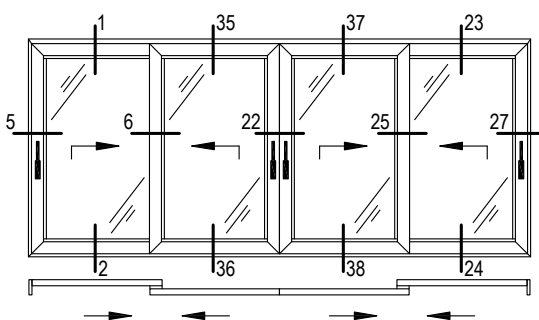
2 fixed sashes with 1 central sliding sash



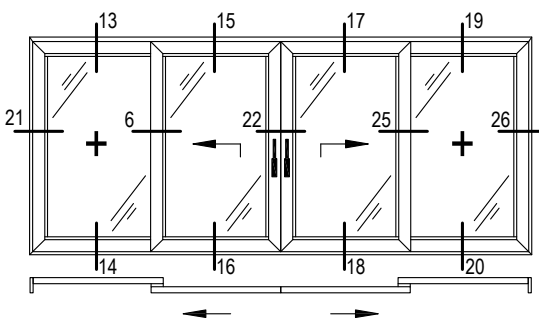
3 sliding sashes on 3 tracks



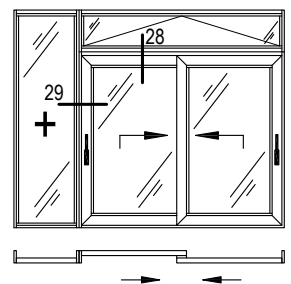
4 sliding sashes on 2 tracks



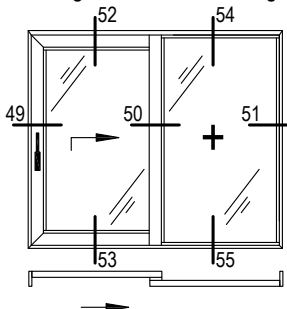
2 sliding sashes with 2 fixed sashes



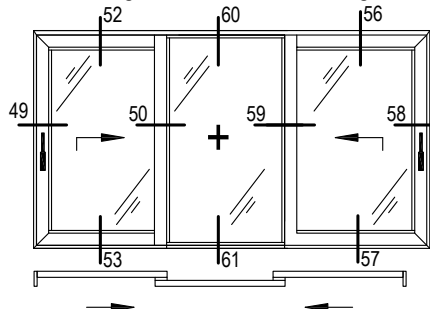
2 sliding sashes on 2 tracks with fanlight and fixed side light



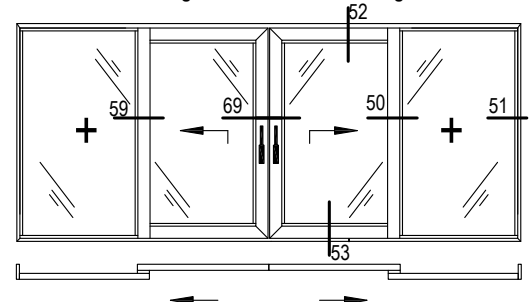
1 sliding sash with fixed side light



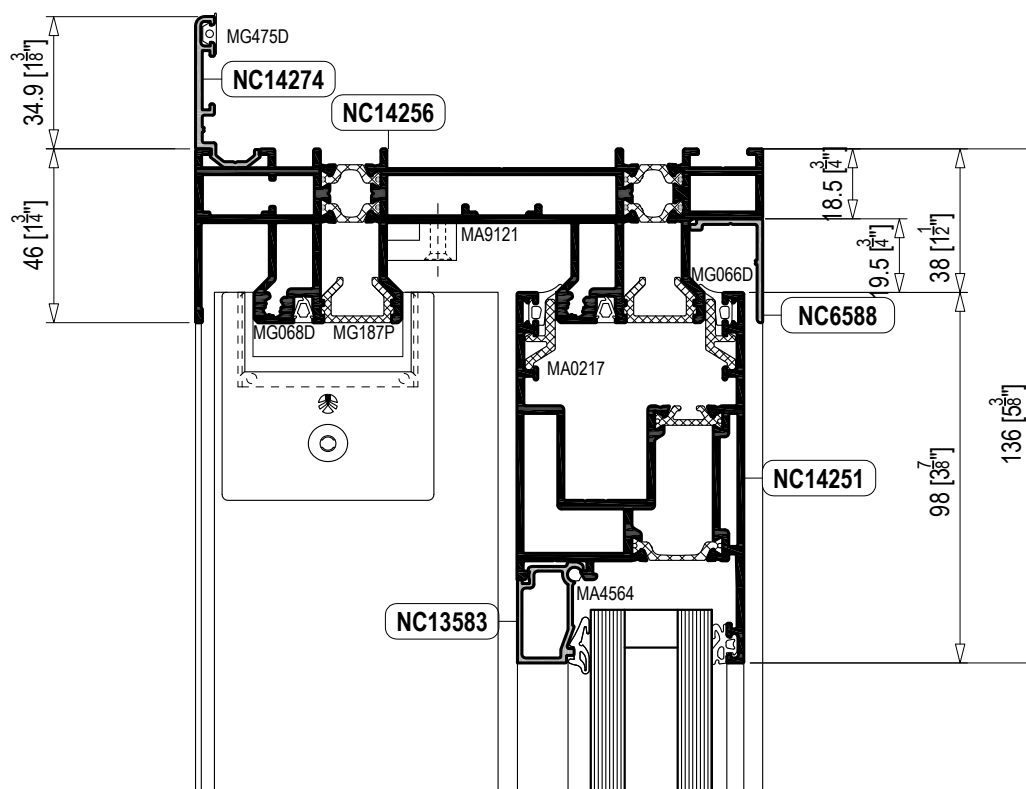
2 sliding sashes with fixed central light



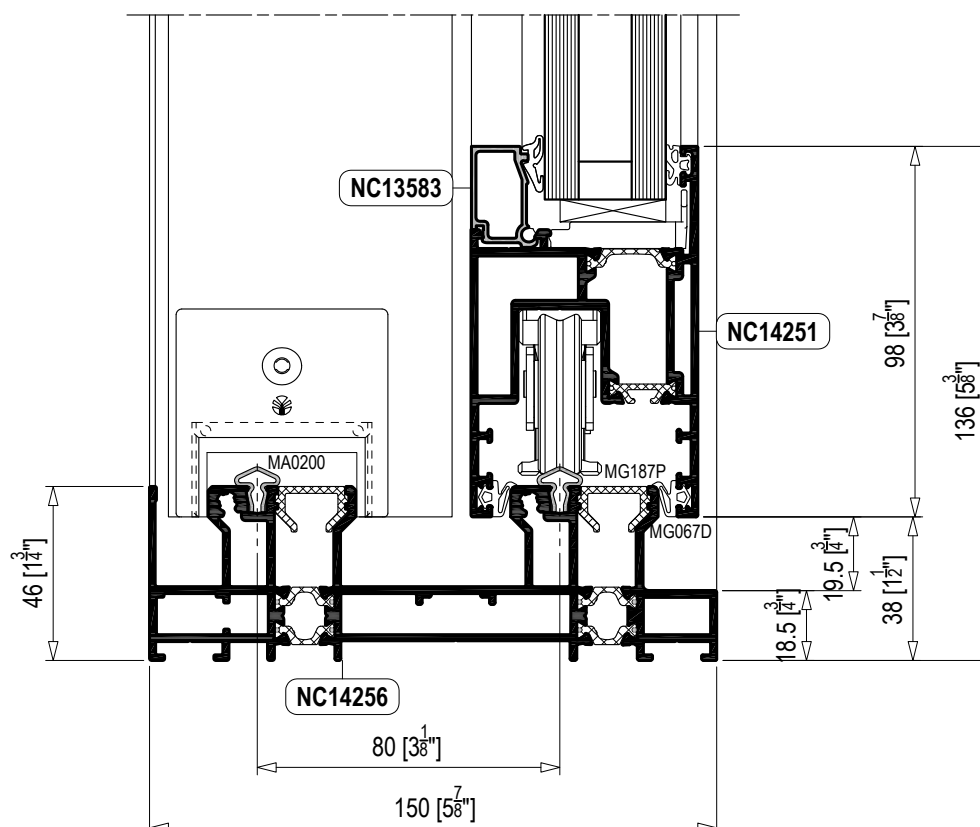
2 sliding sashes with fixed side lights



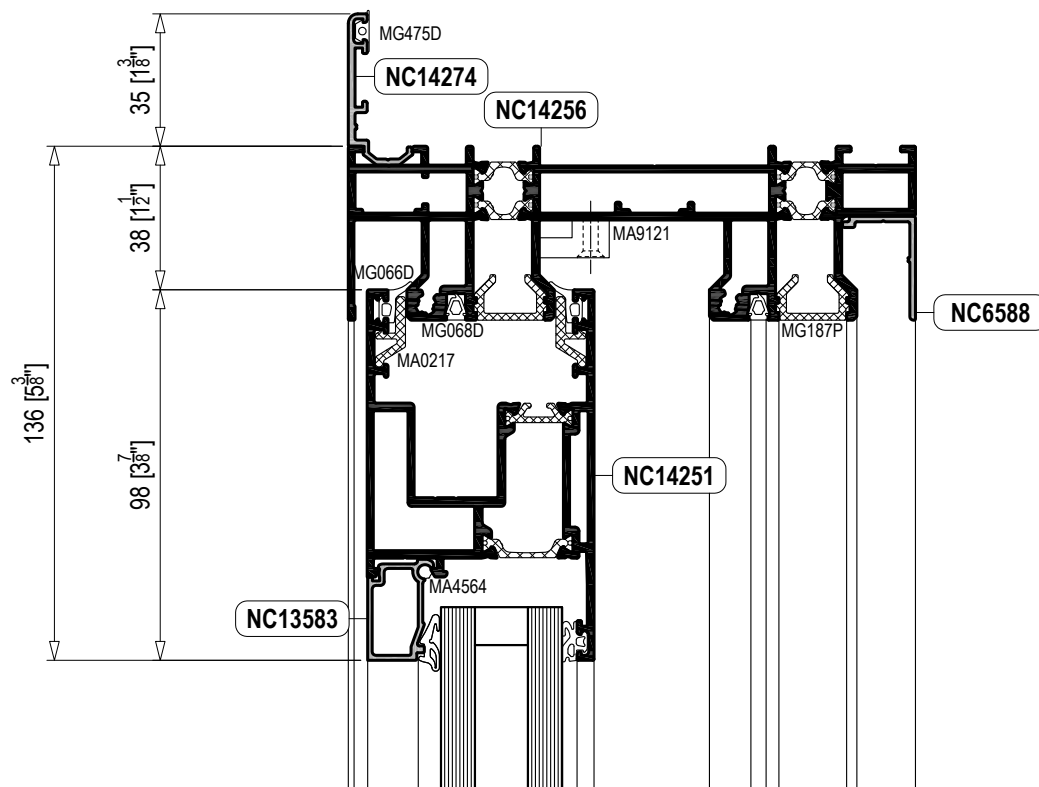
Section 1



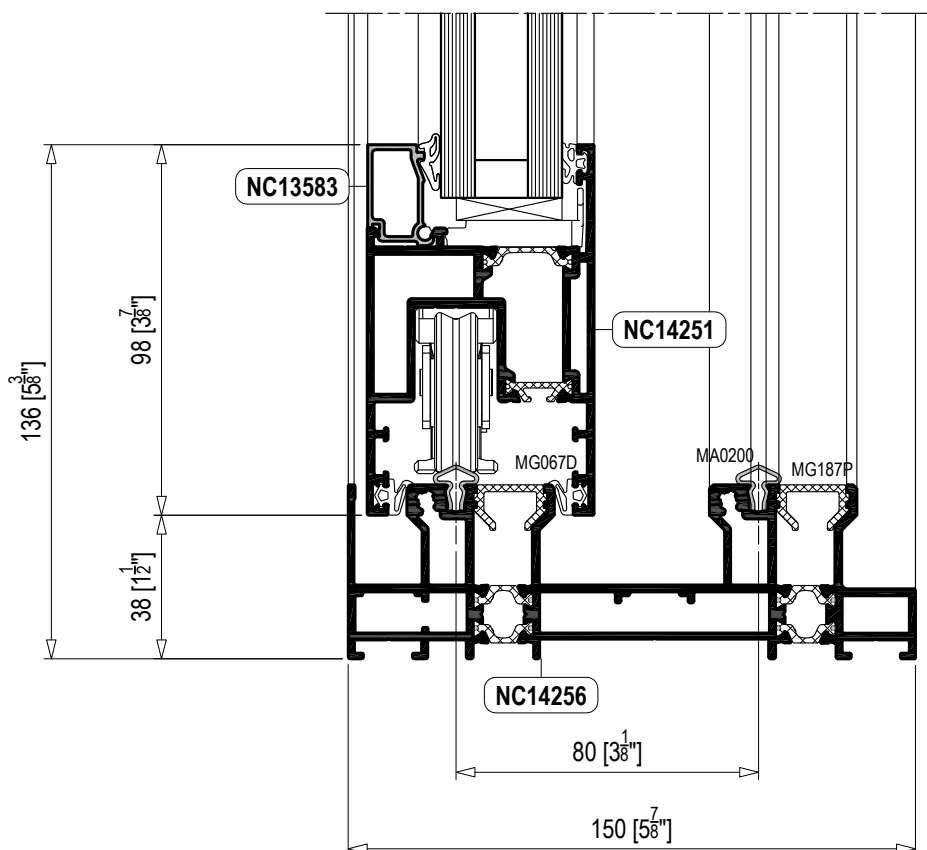
Section 2



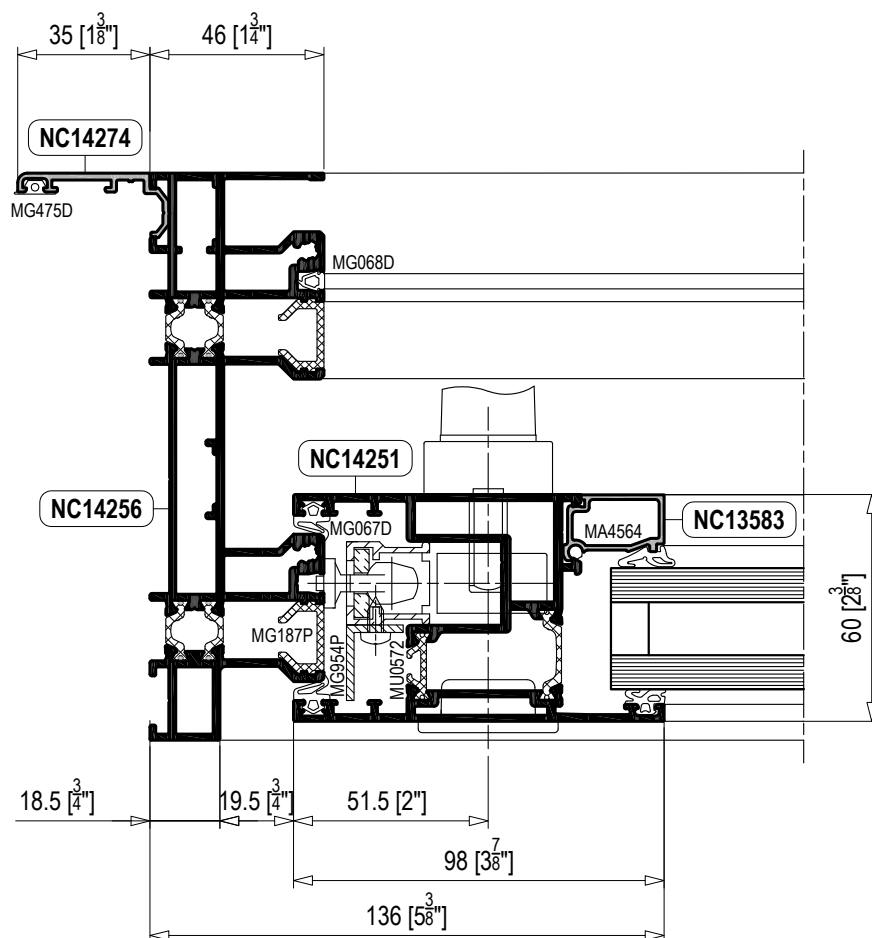
Section 3



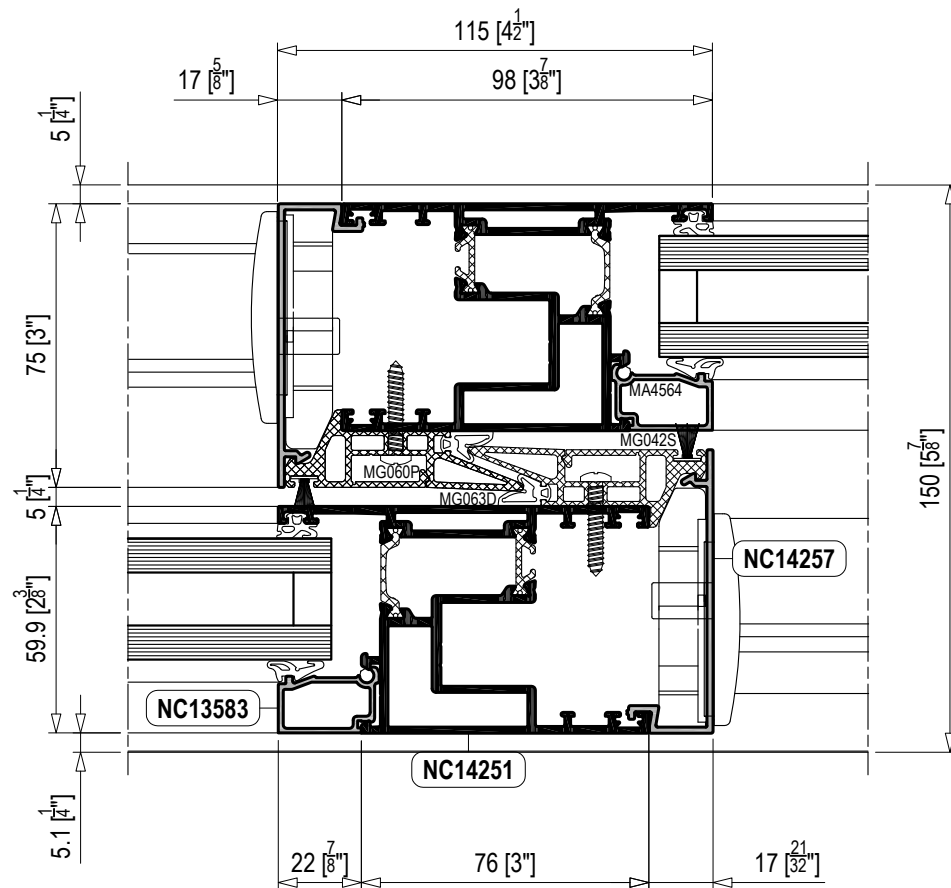
Section 4



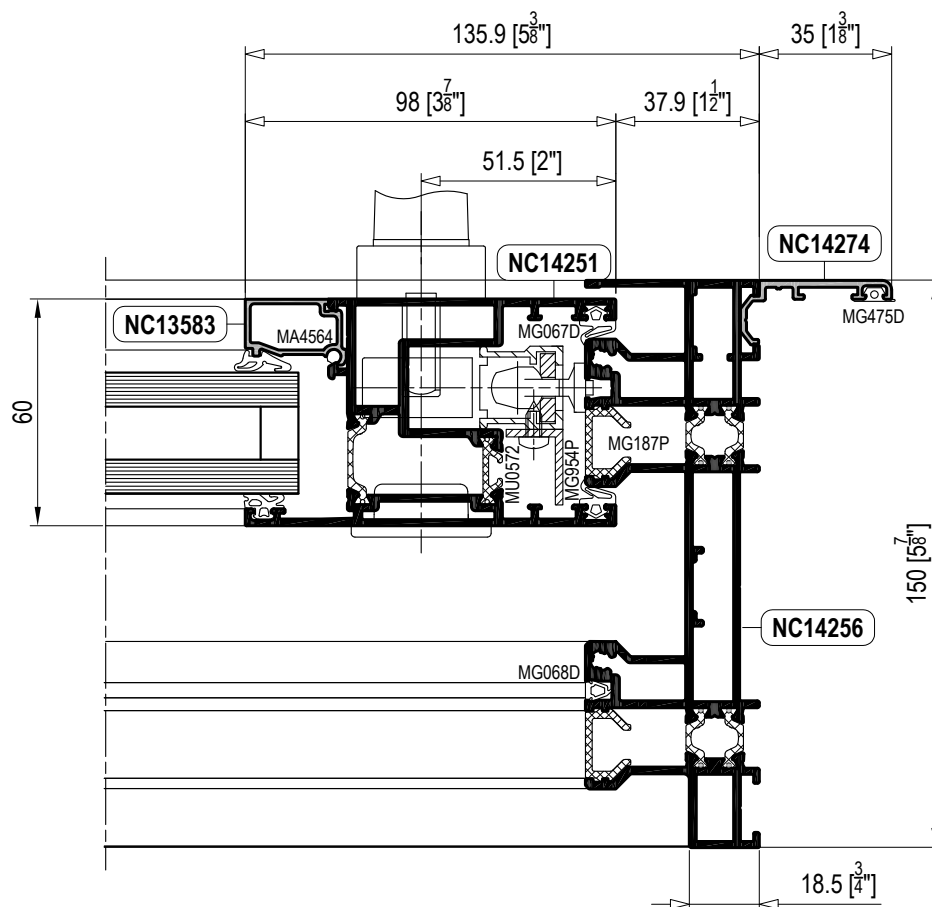
Section 5



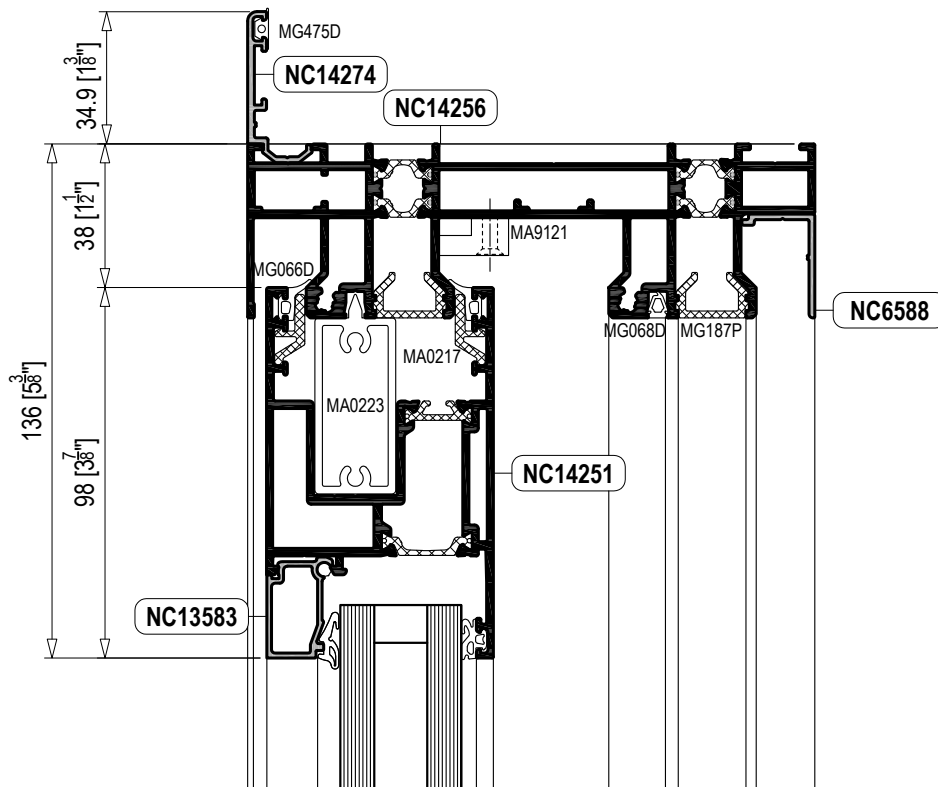
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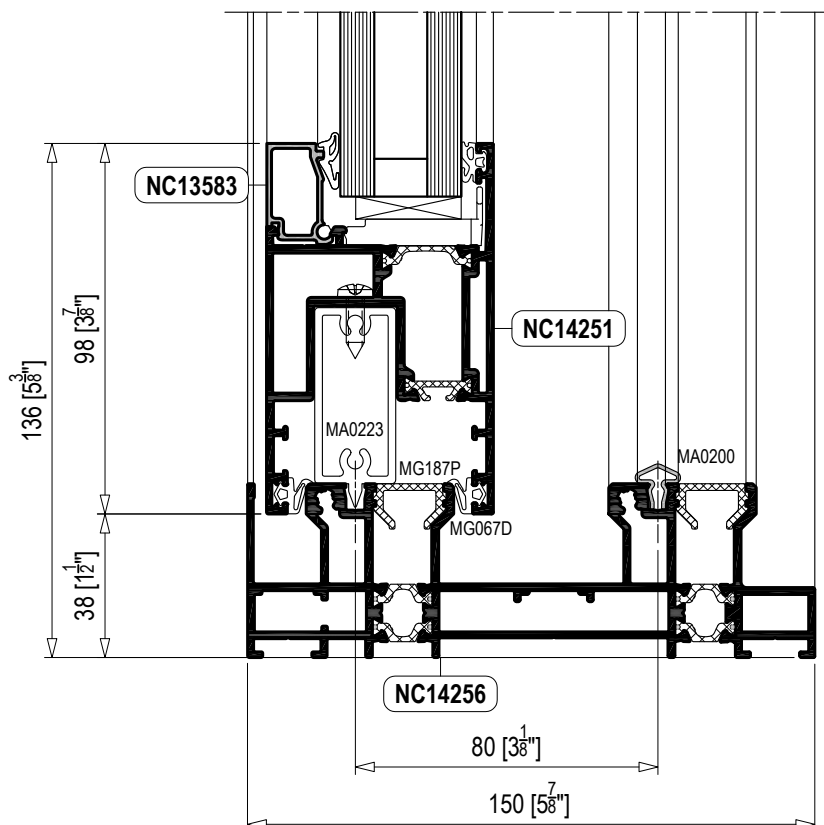
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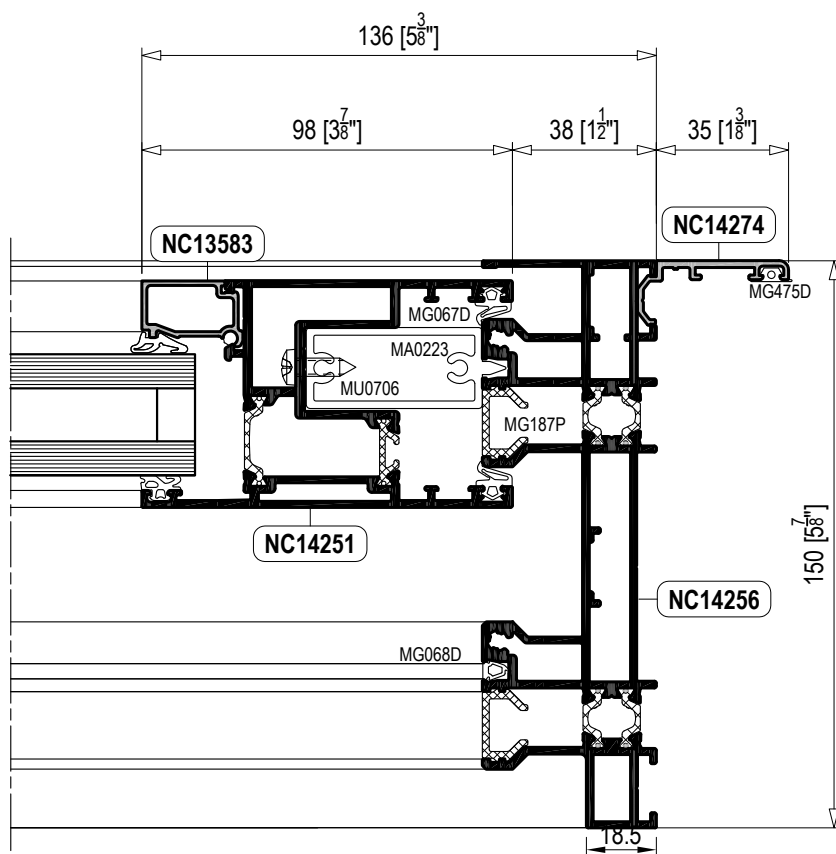
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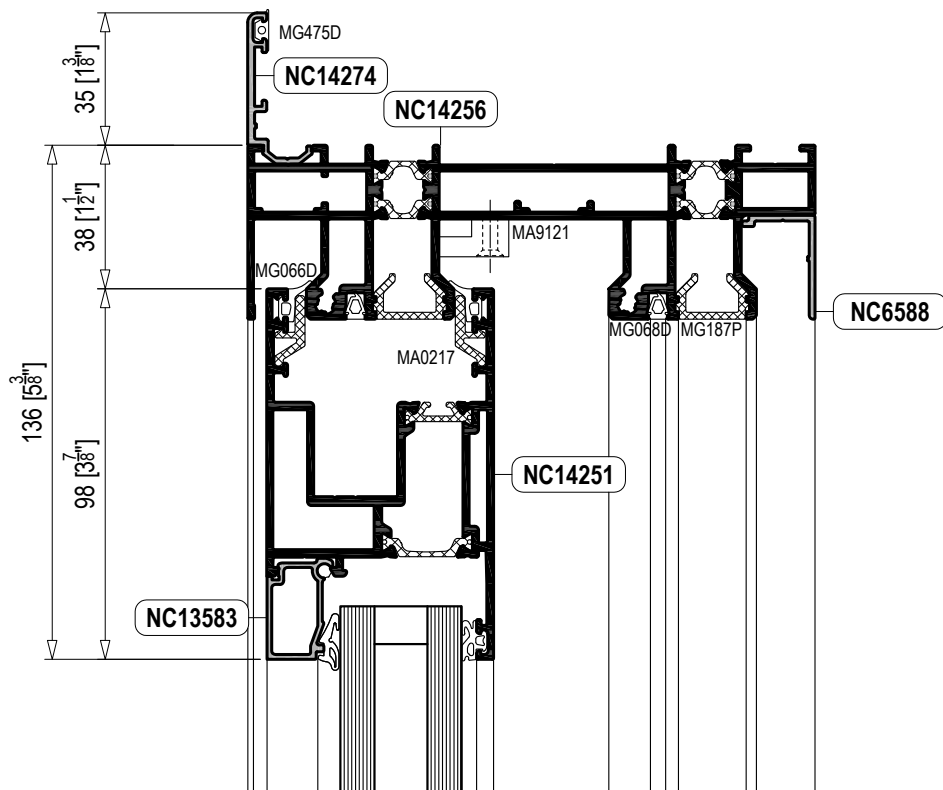
Section 9



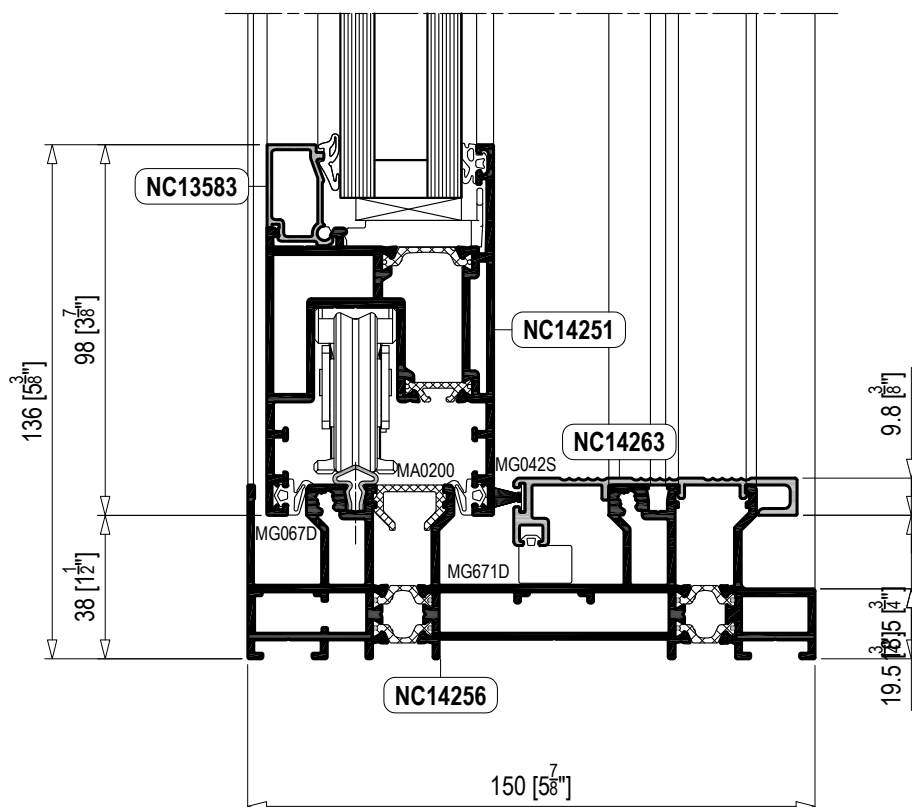
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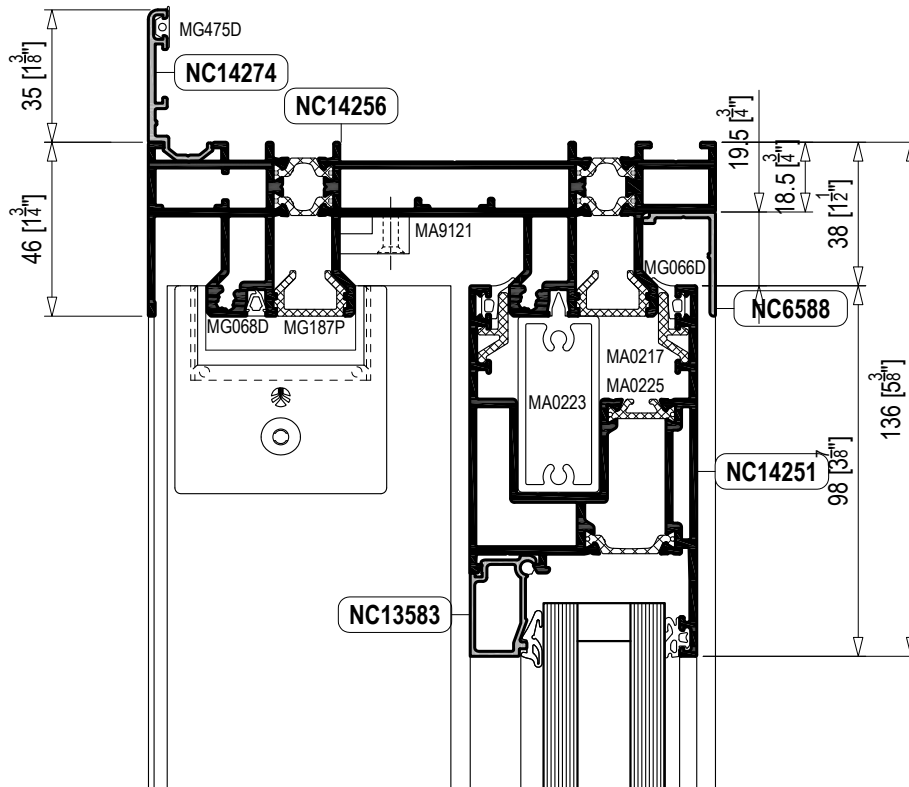
Section 11



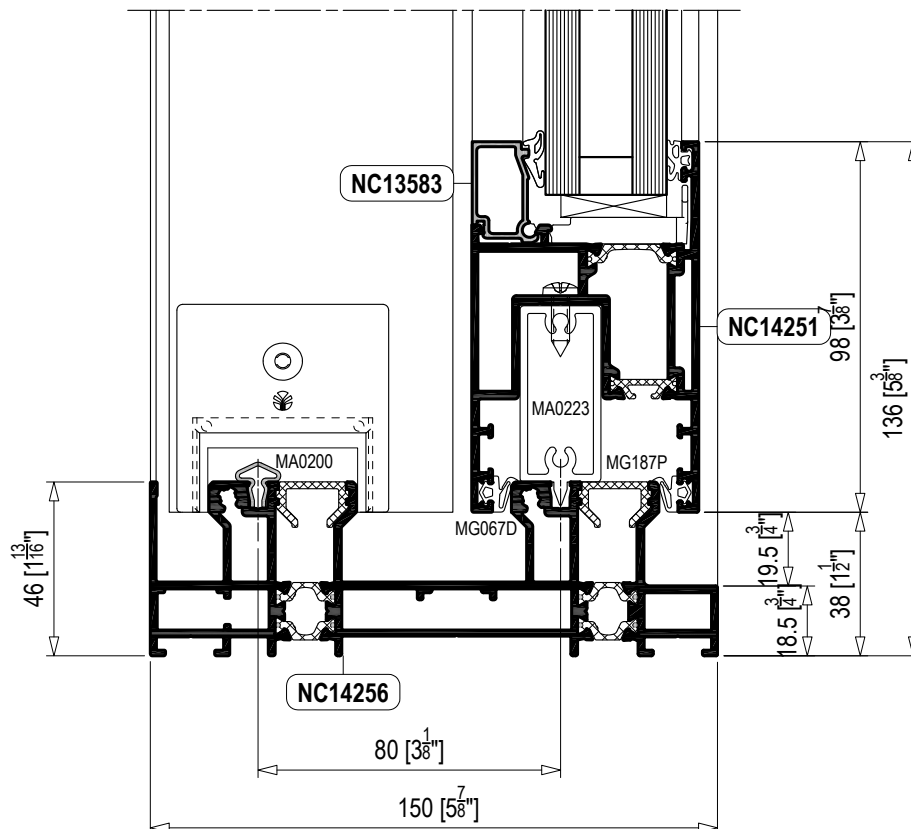
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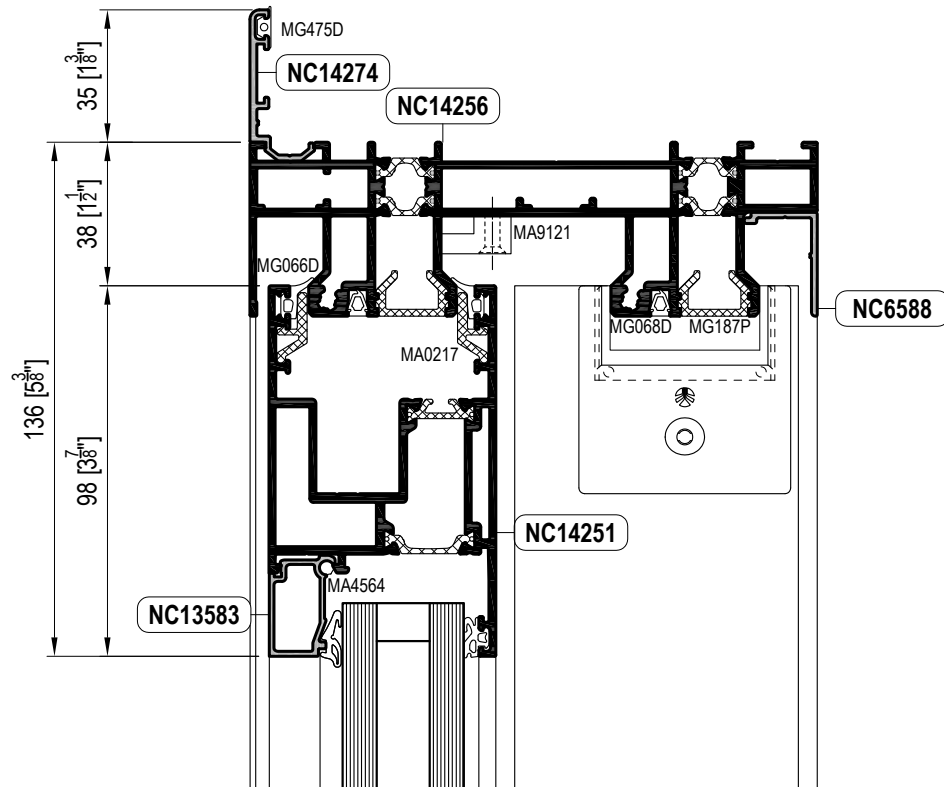
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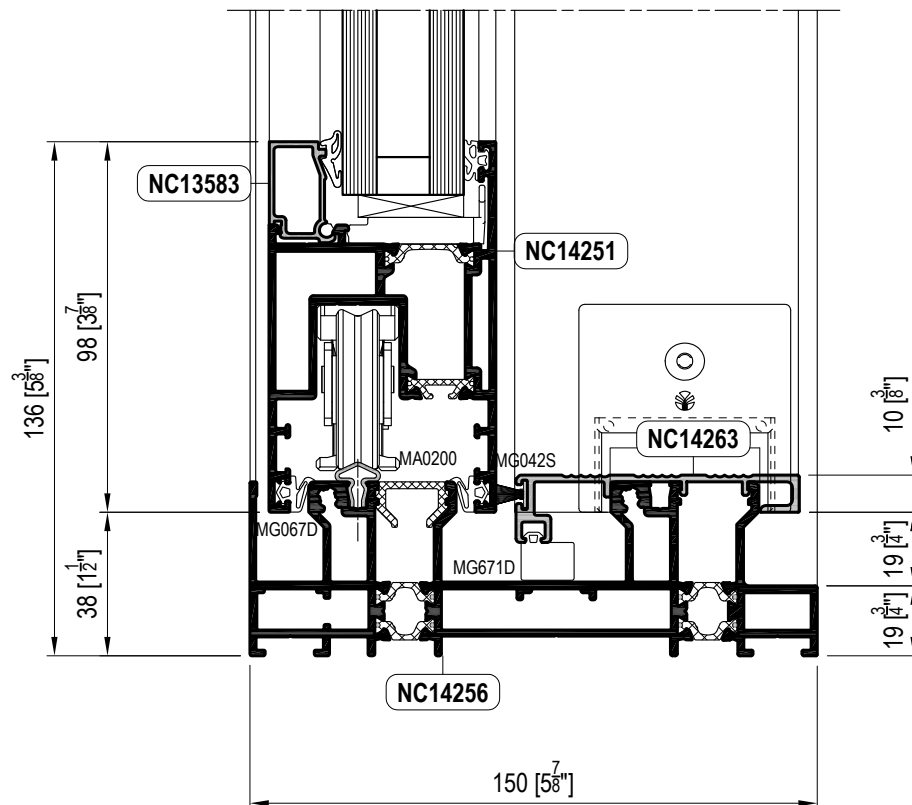
Section 14



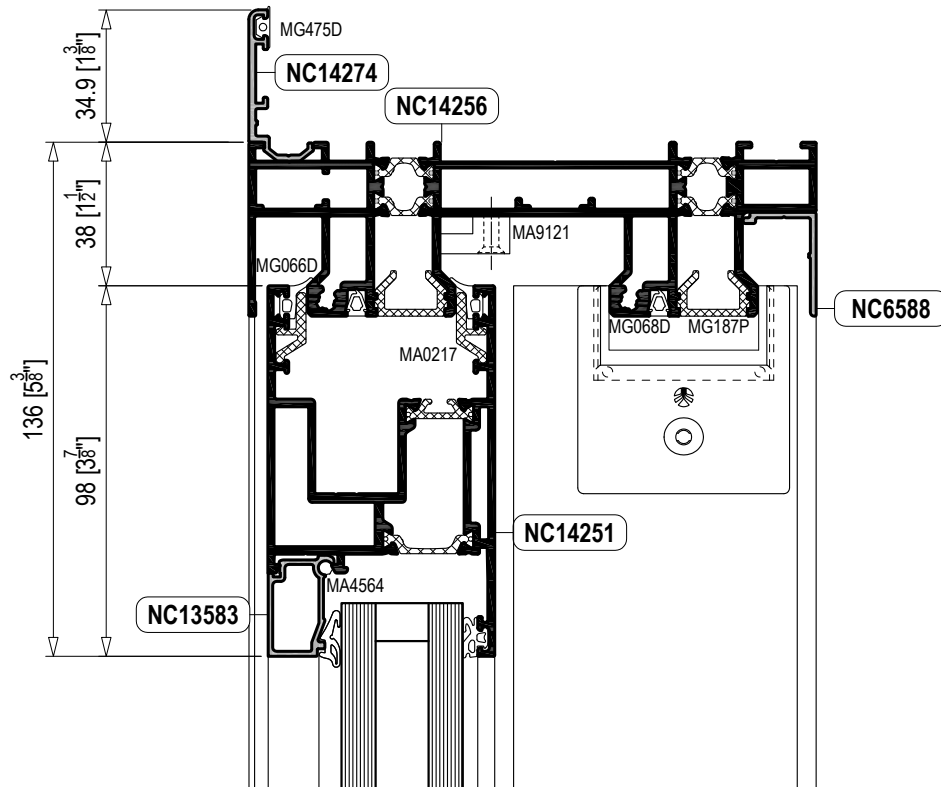
Section 15



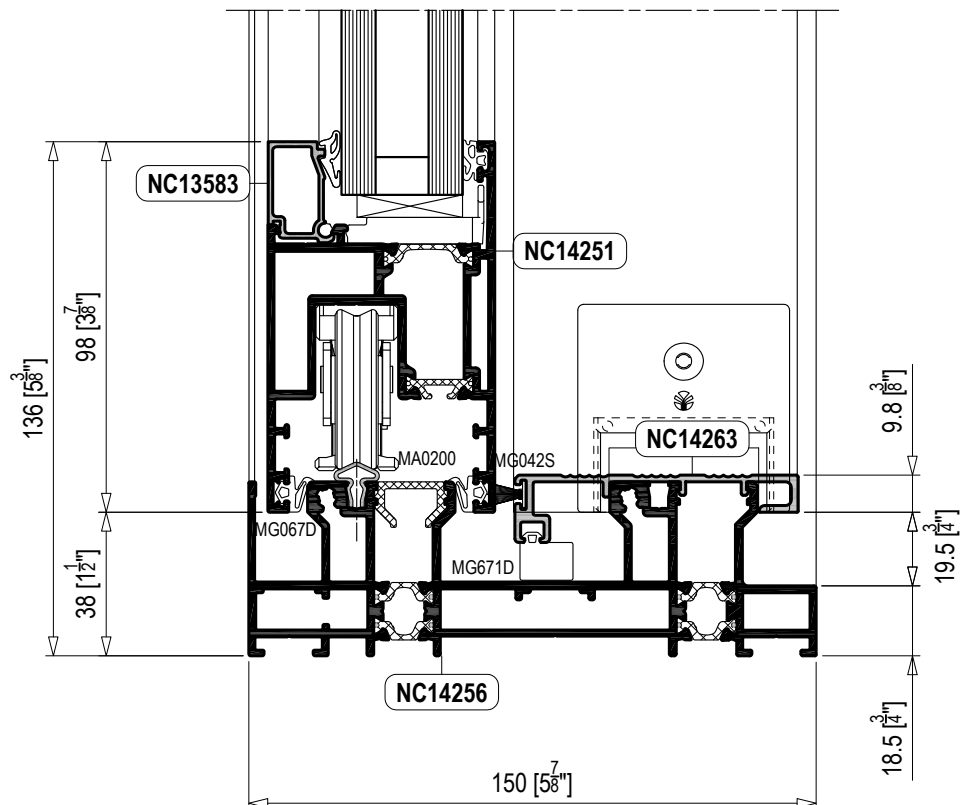
Section 16



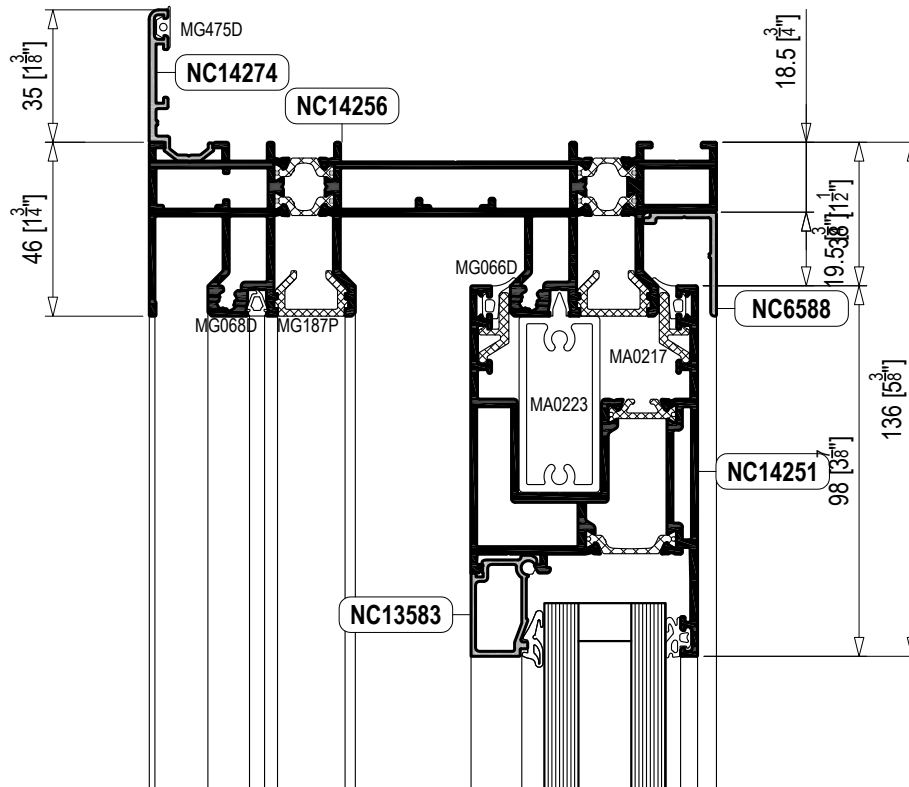
Section 17



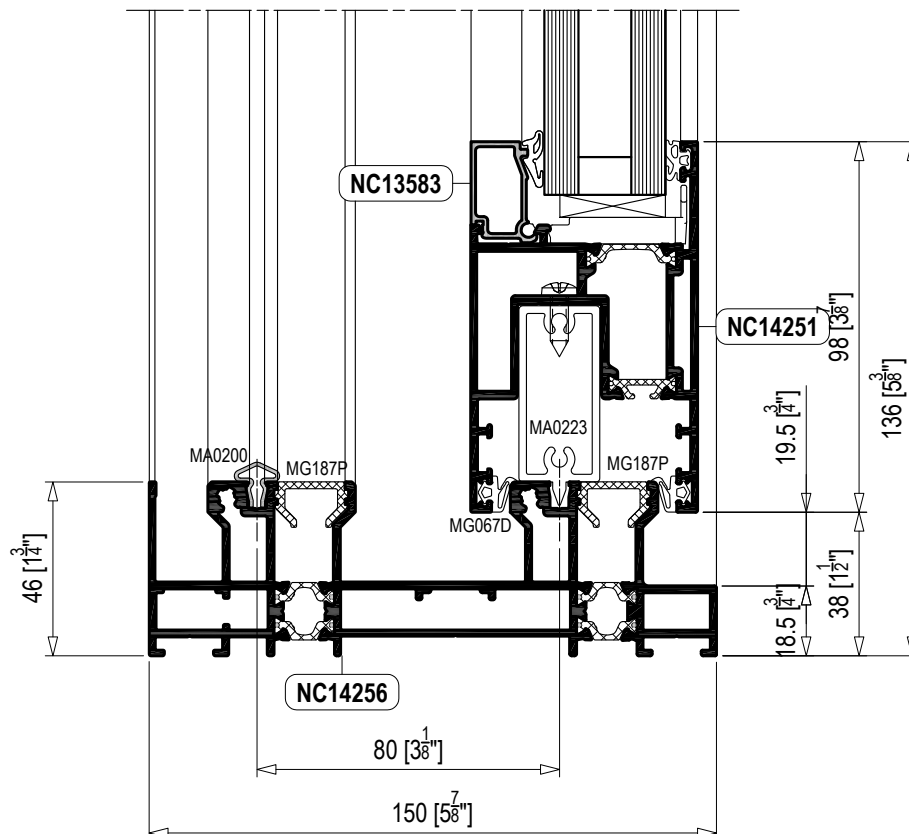
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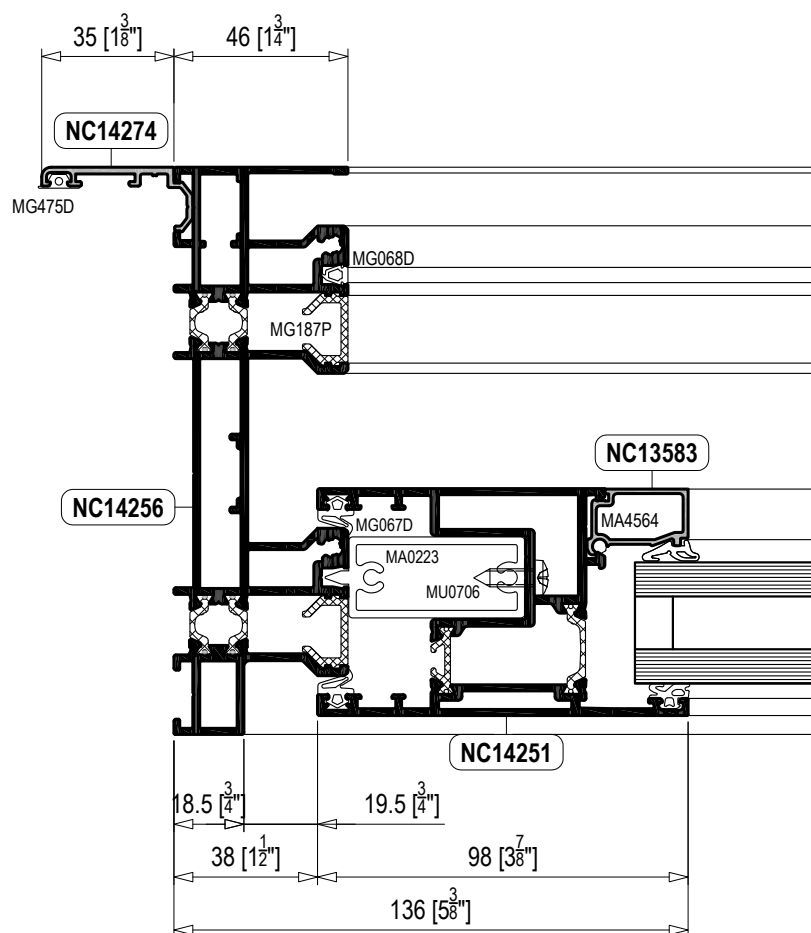
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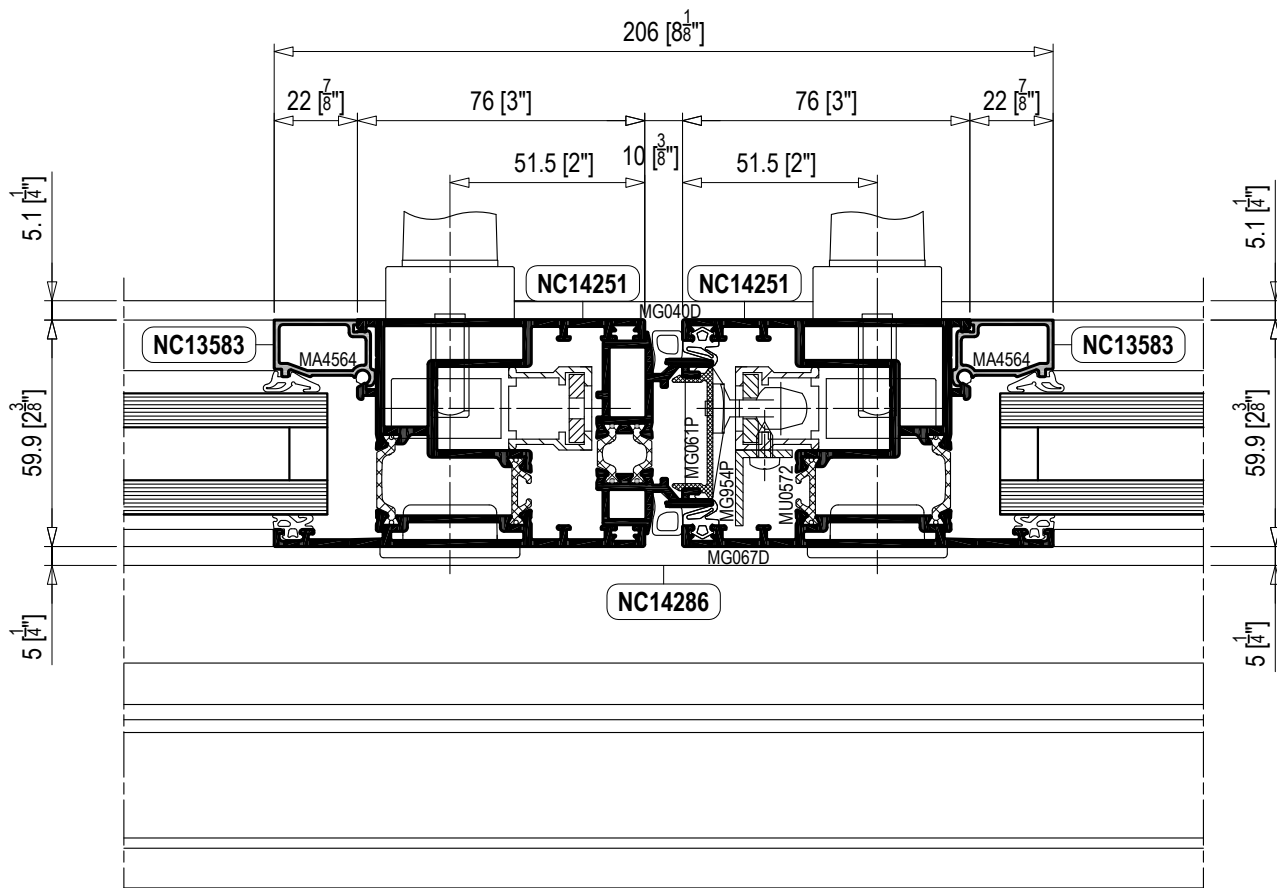
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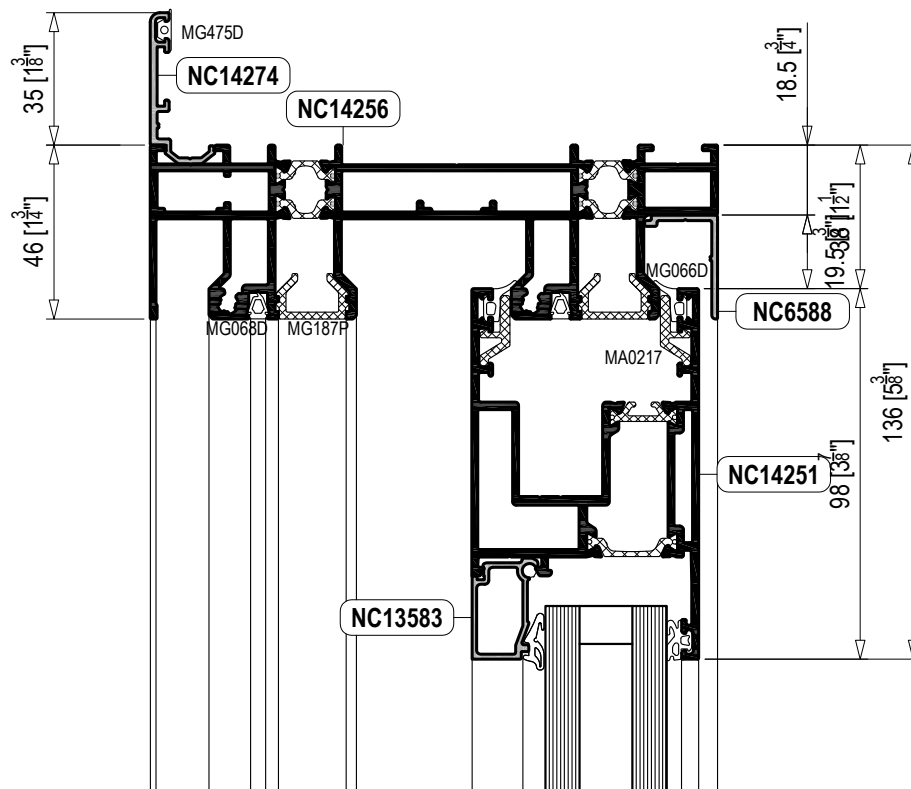
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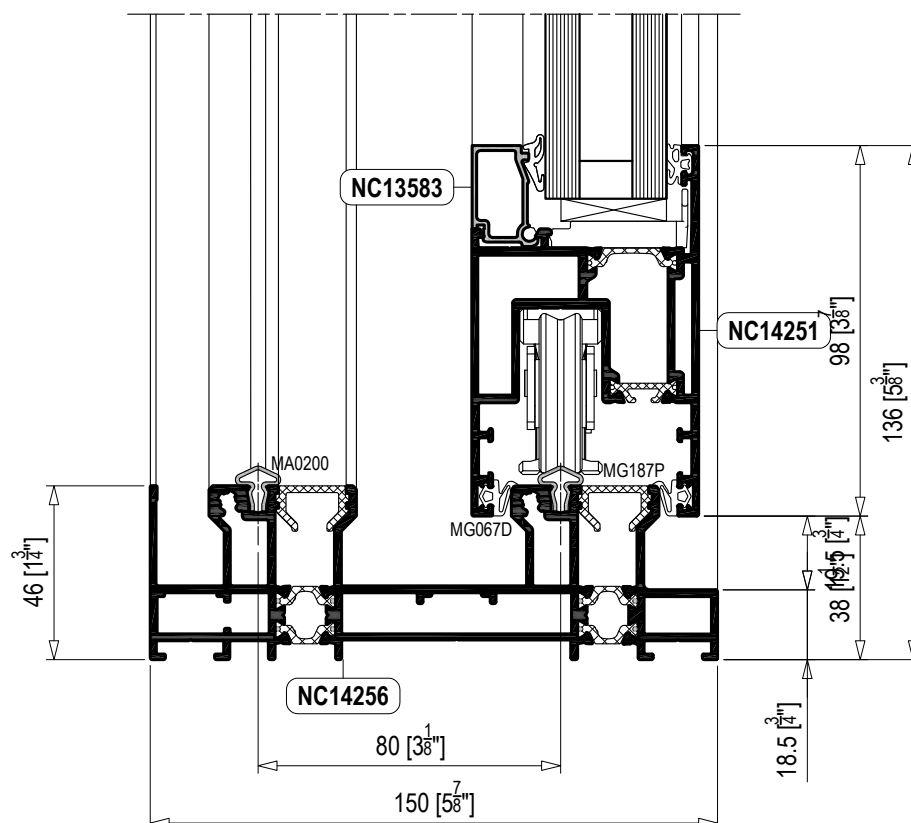
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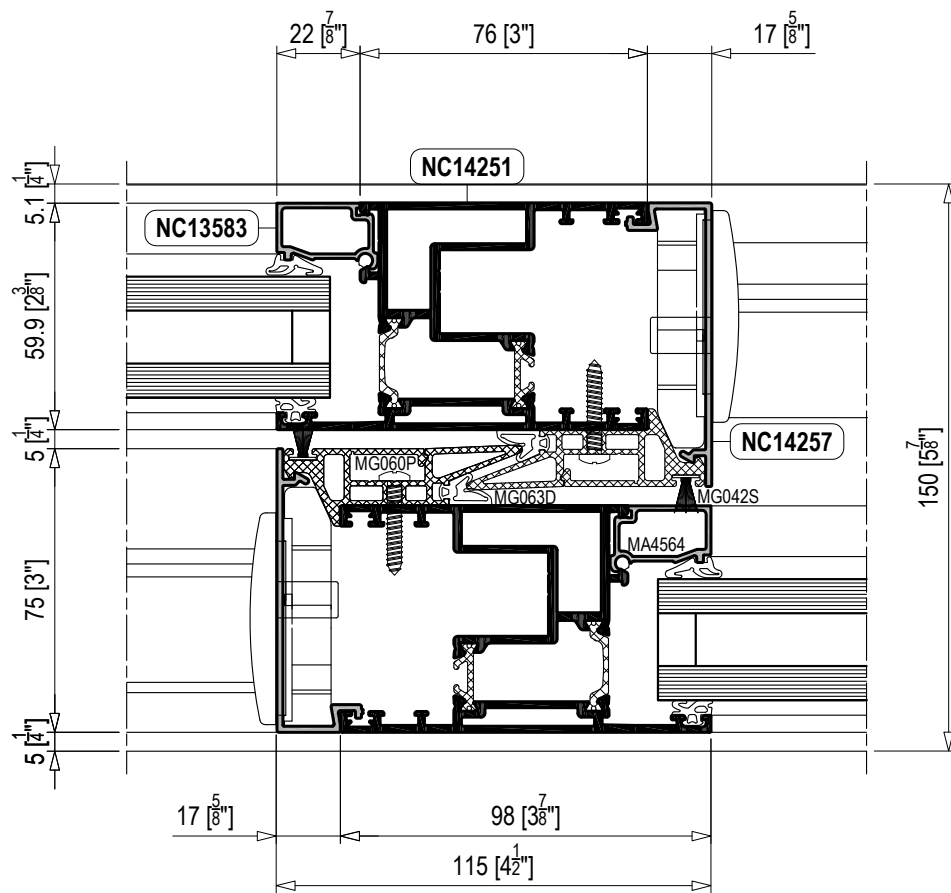
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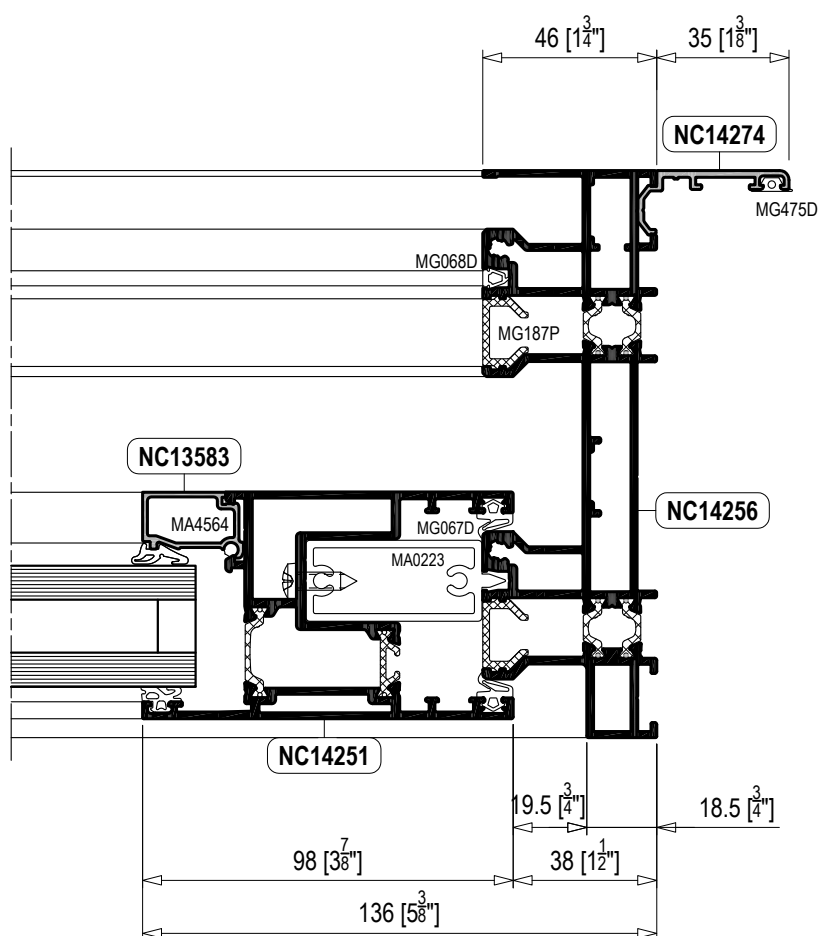
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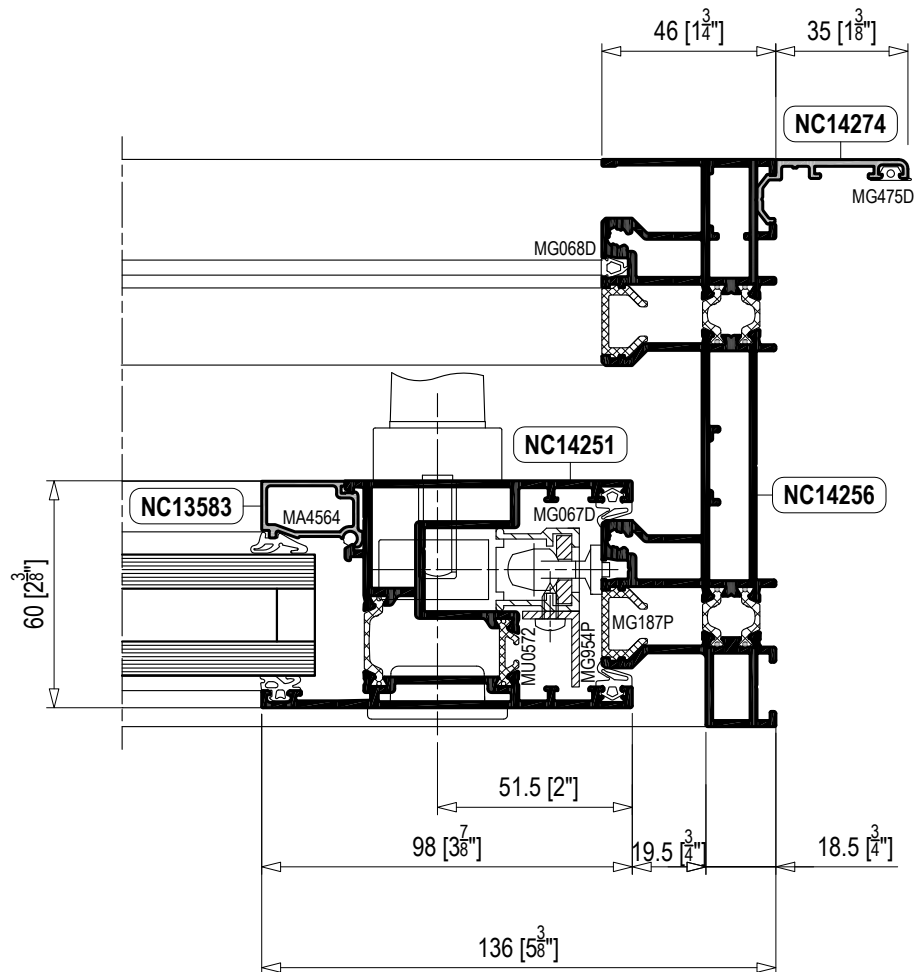
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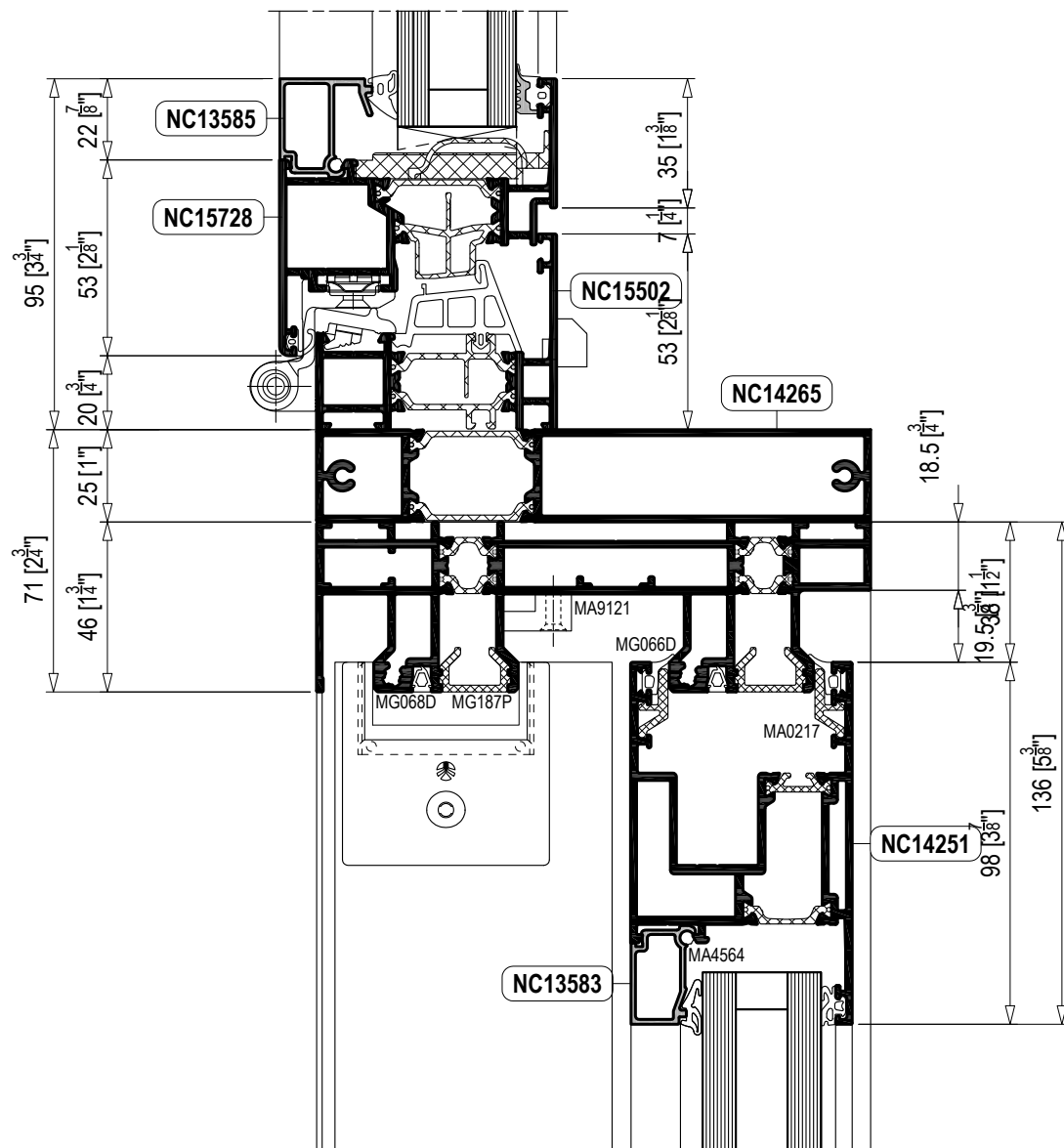
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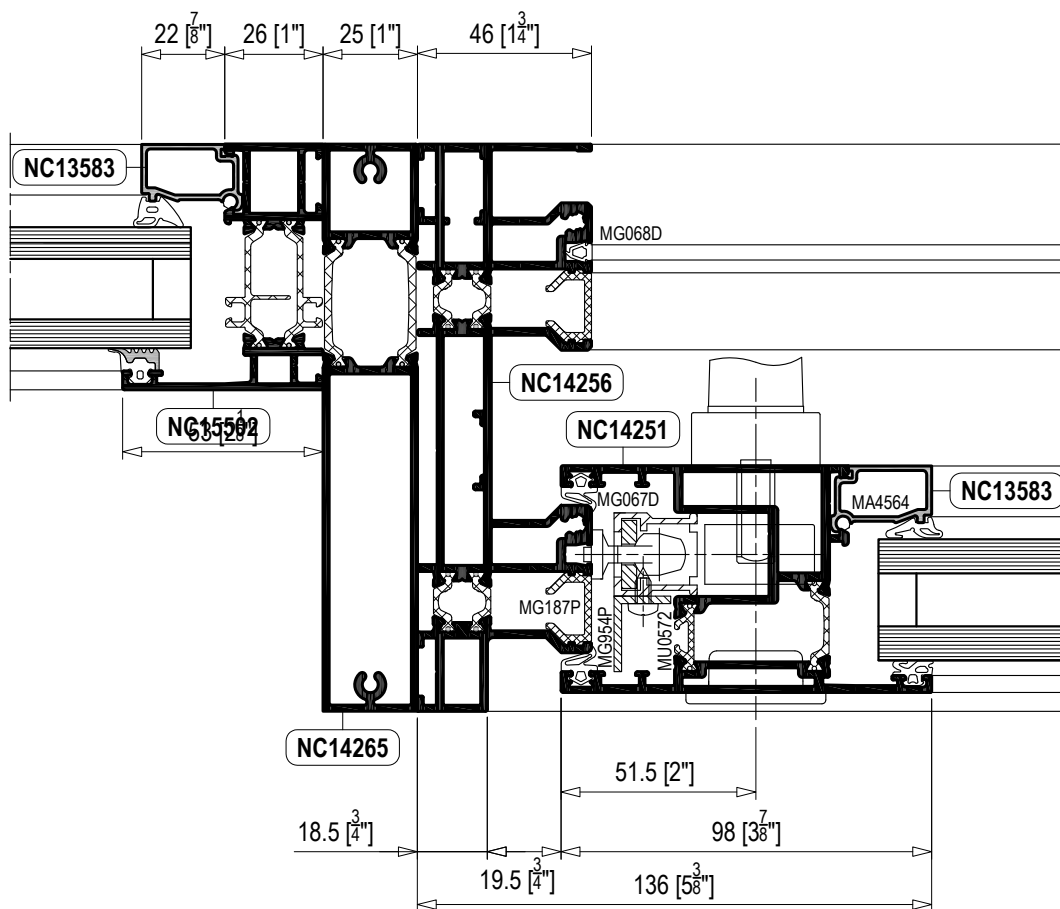
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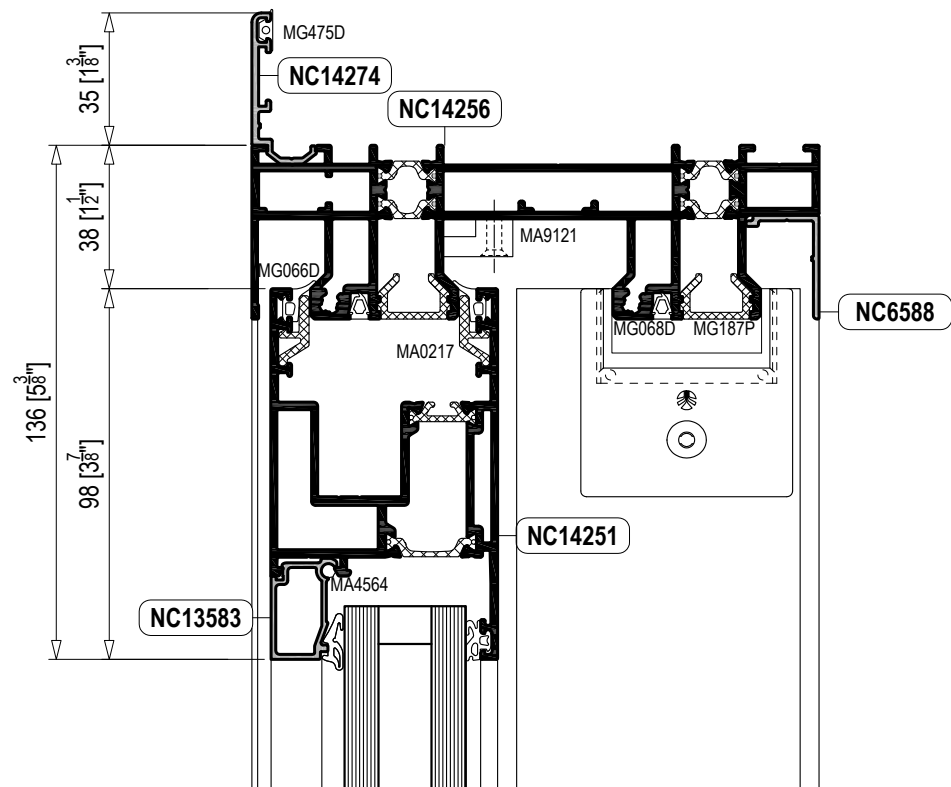
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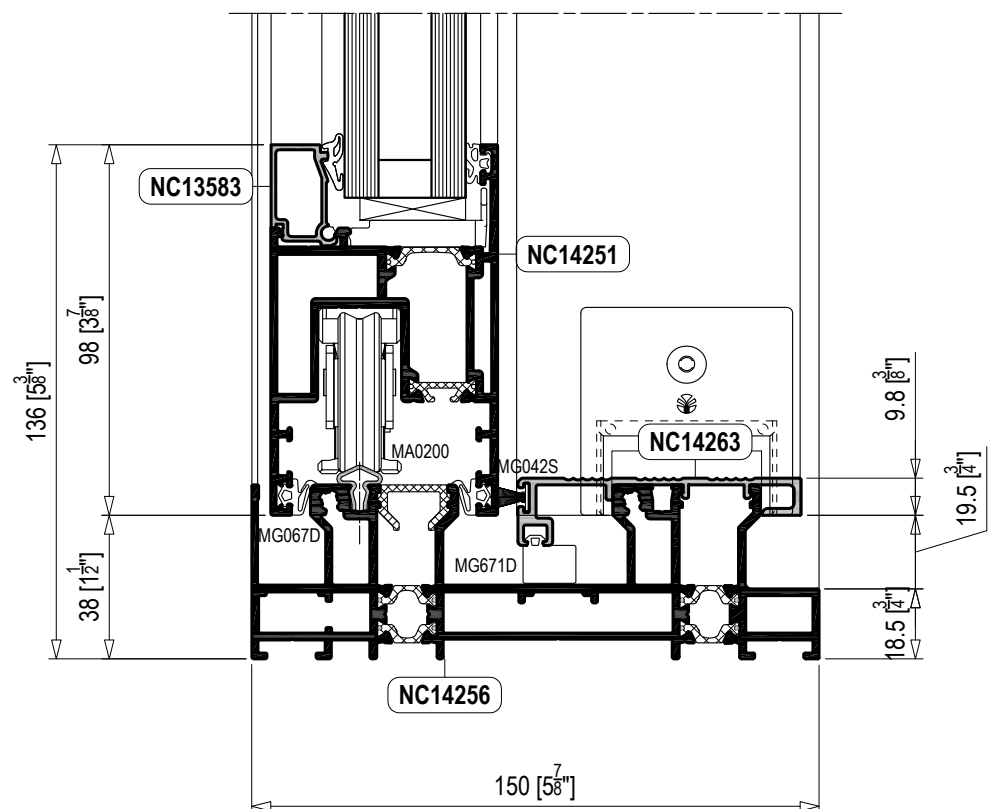
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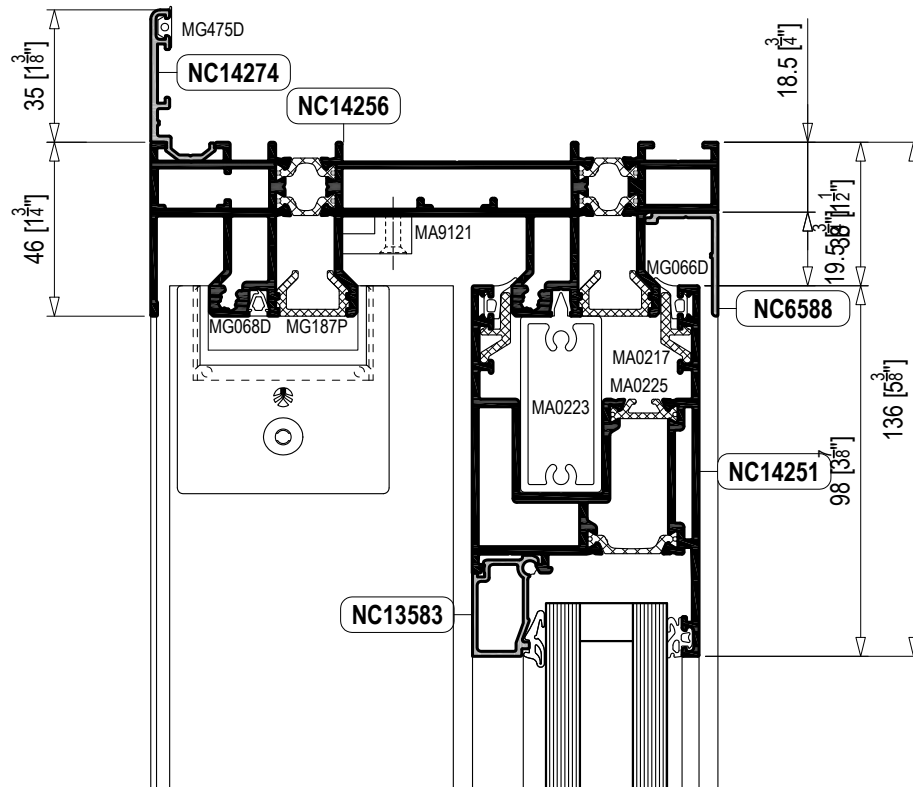
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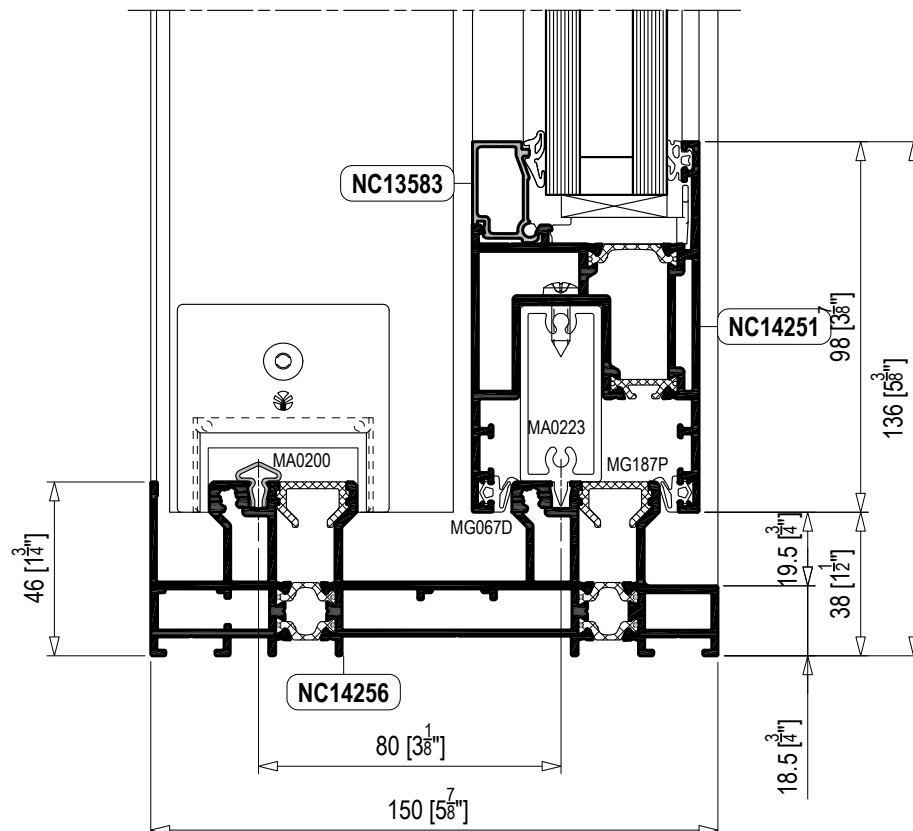
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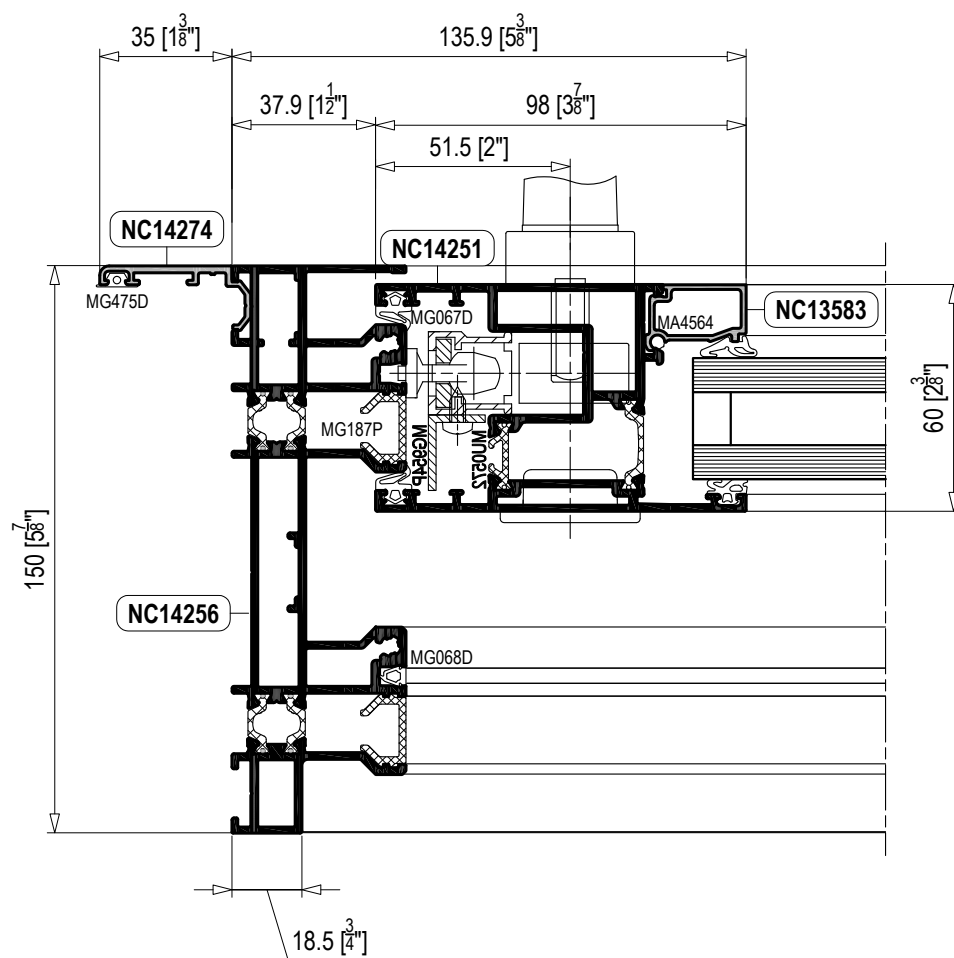
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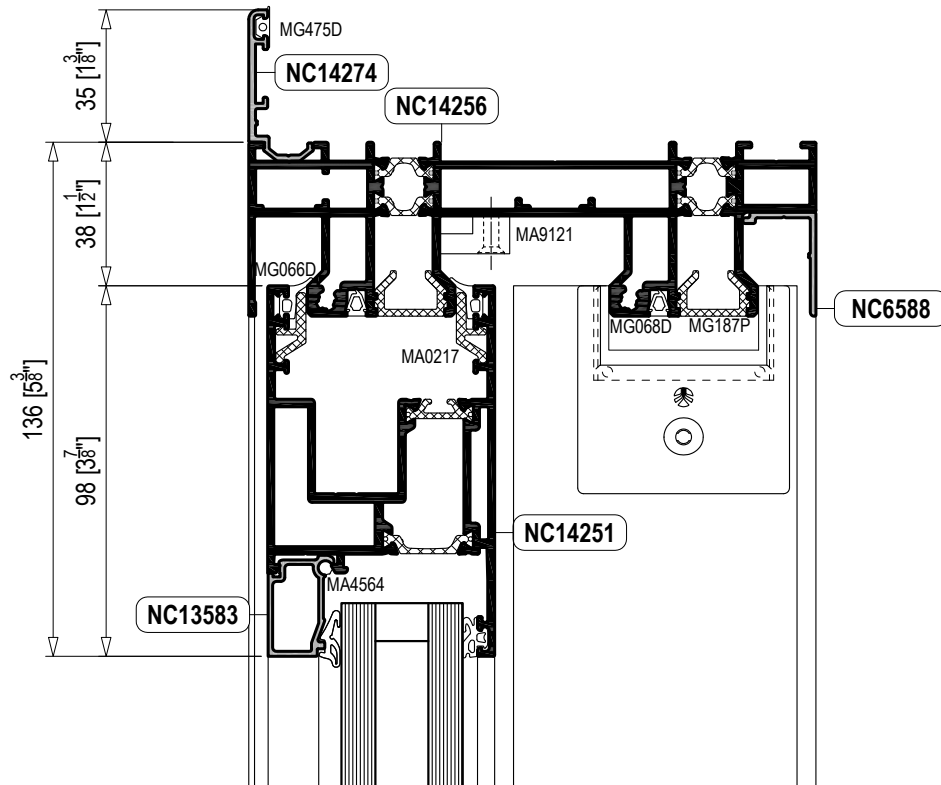
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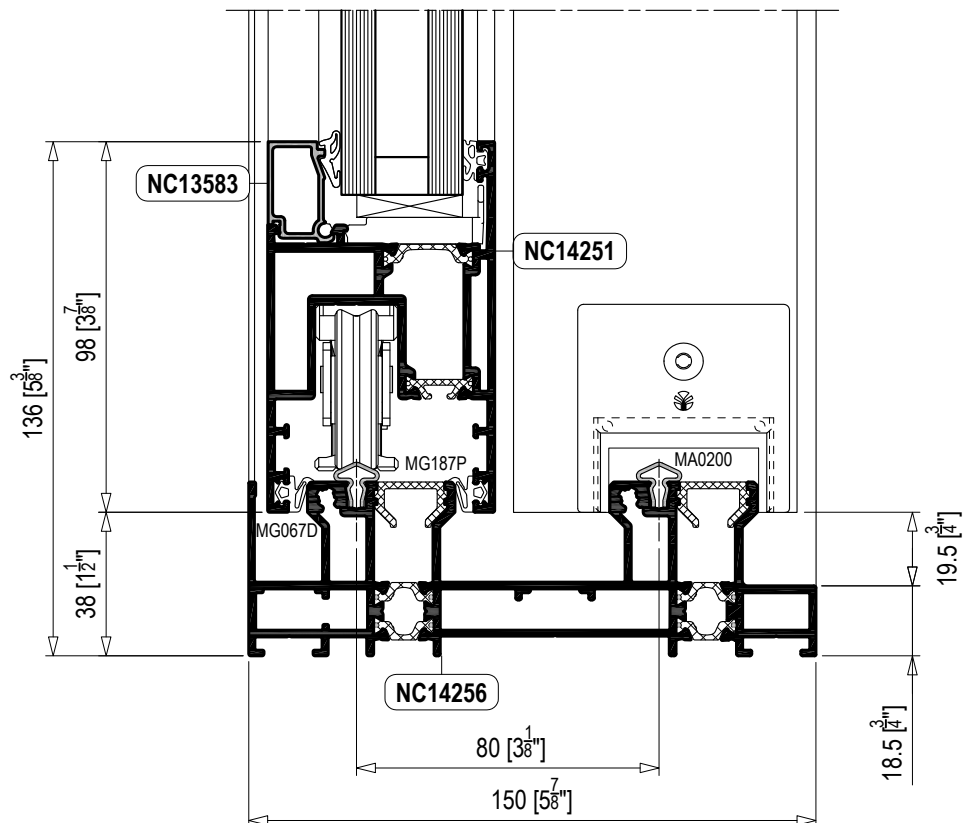
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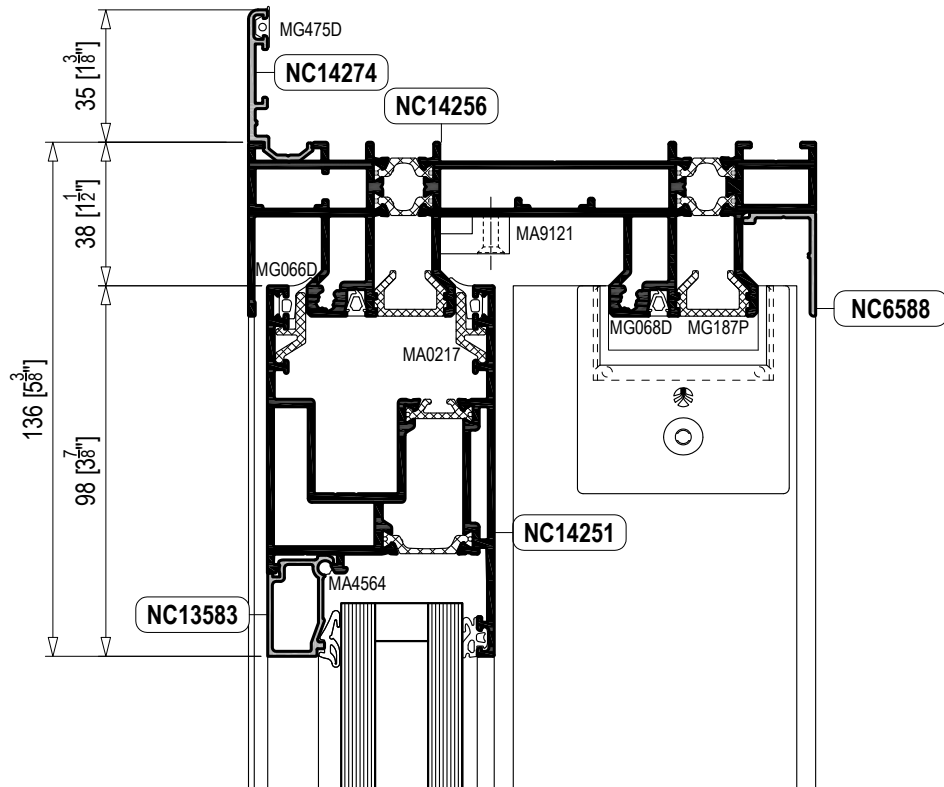
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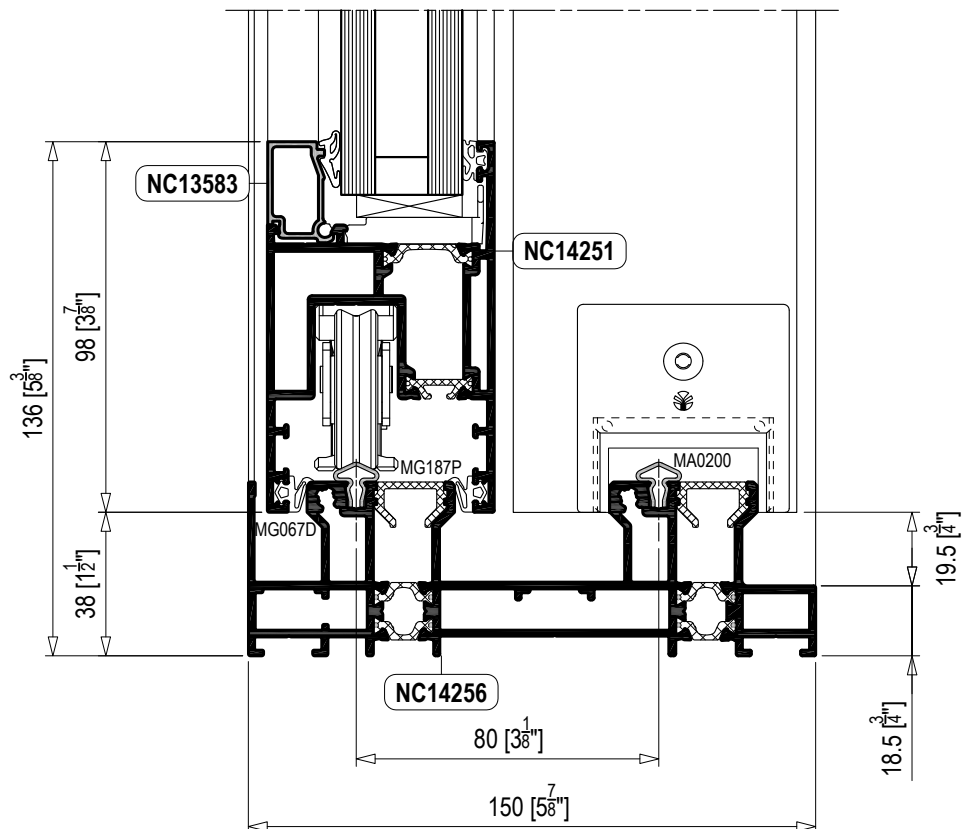
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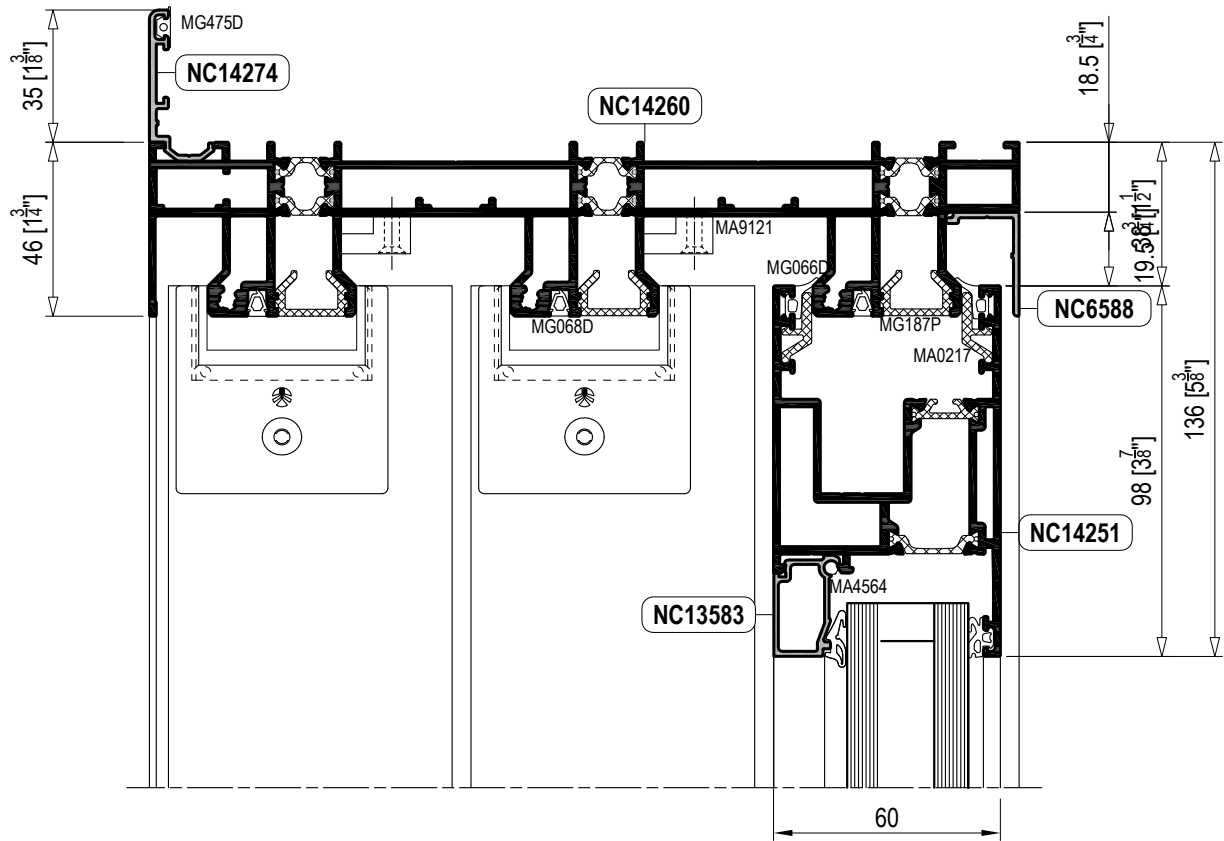
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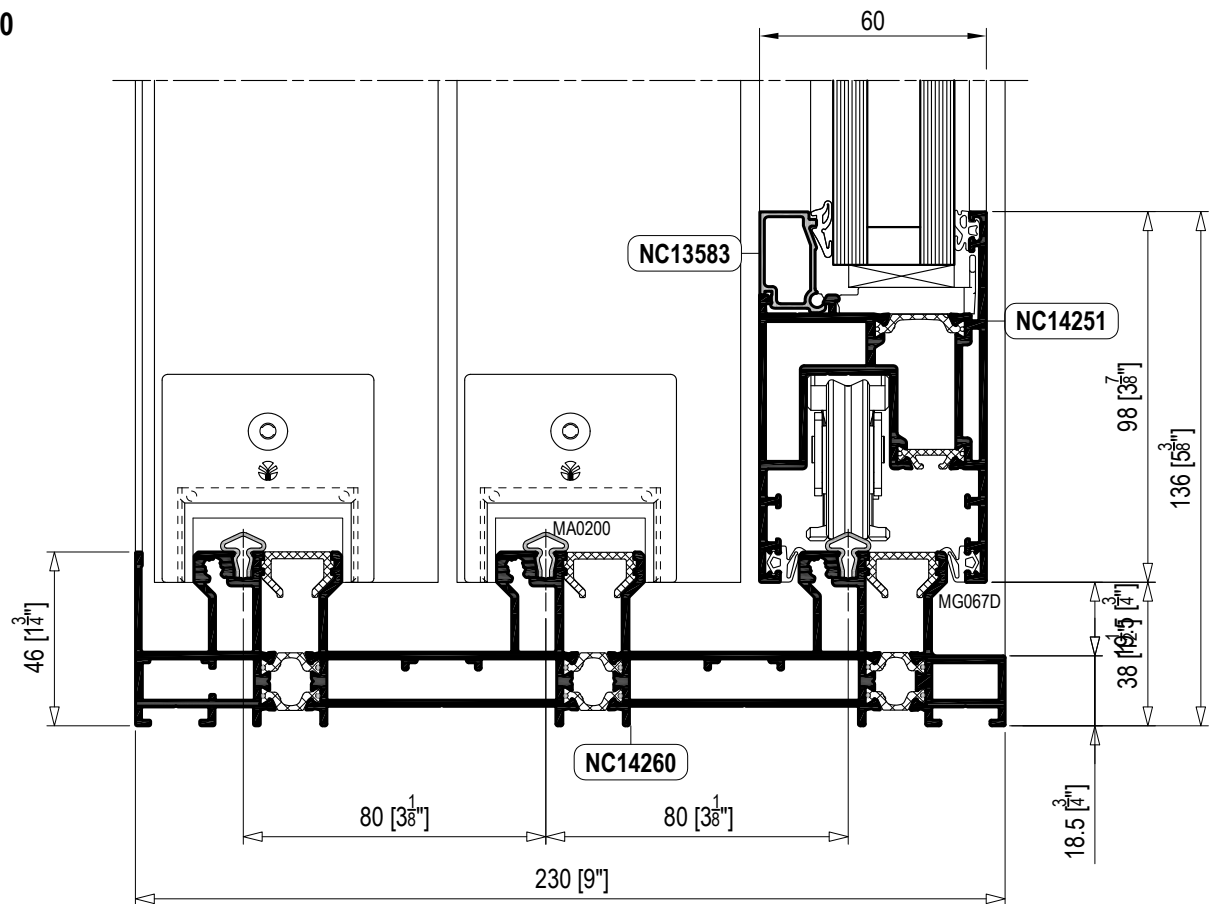
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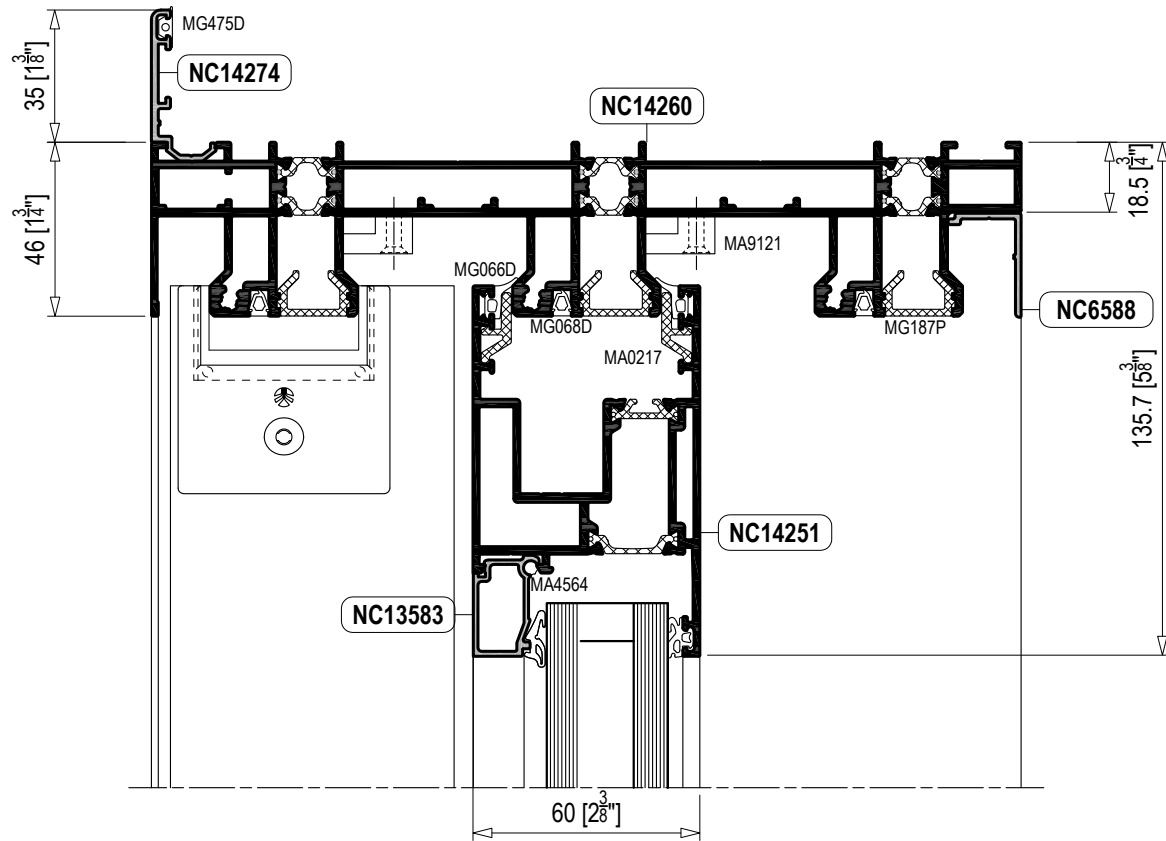
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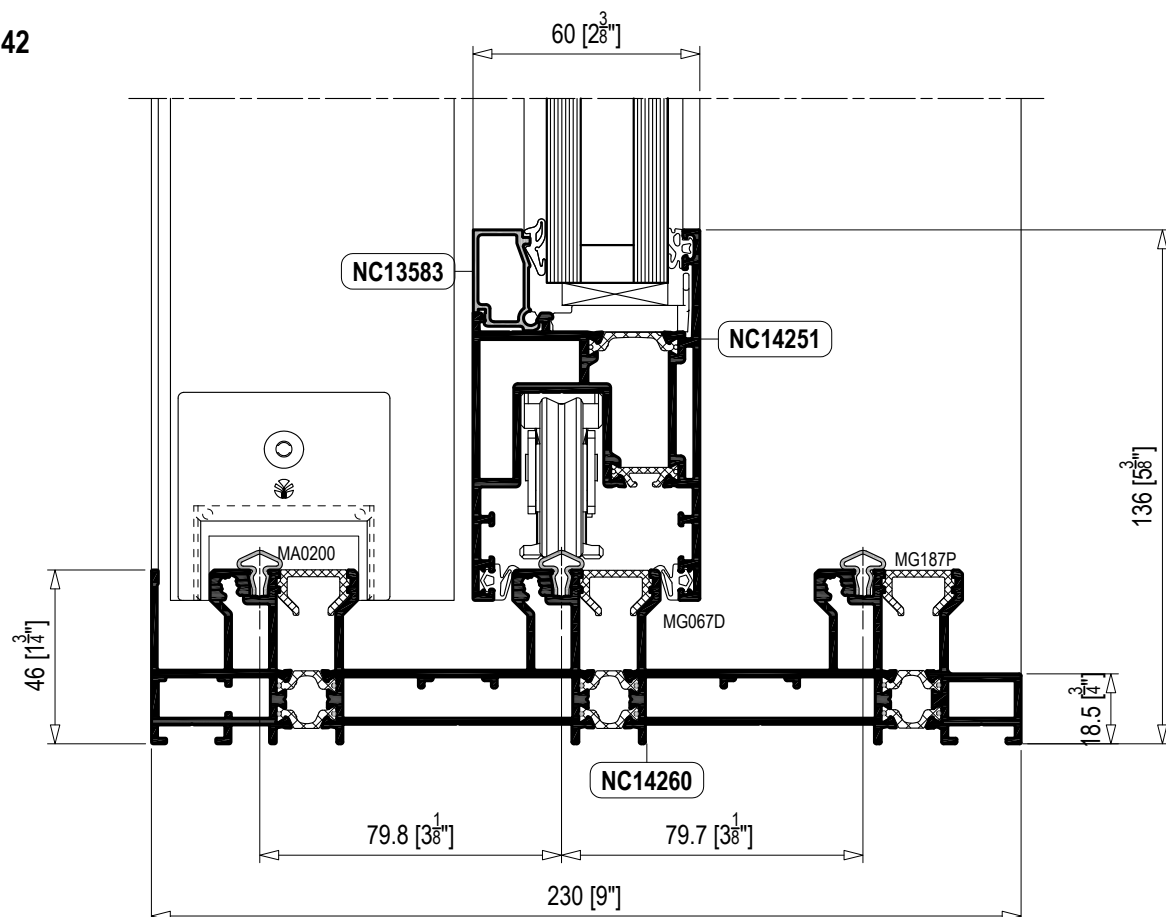
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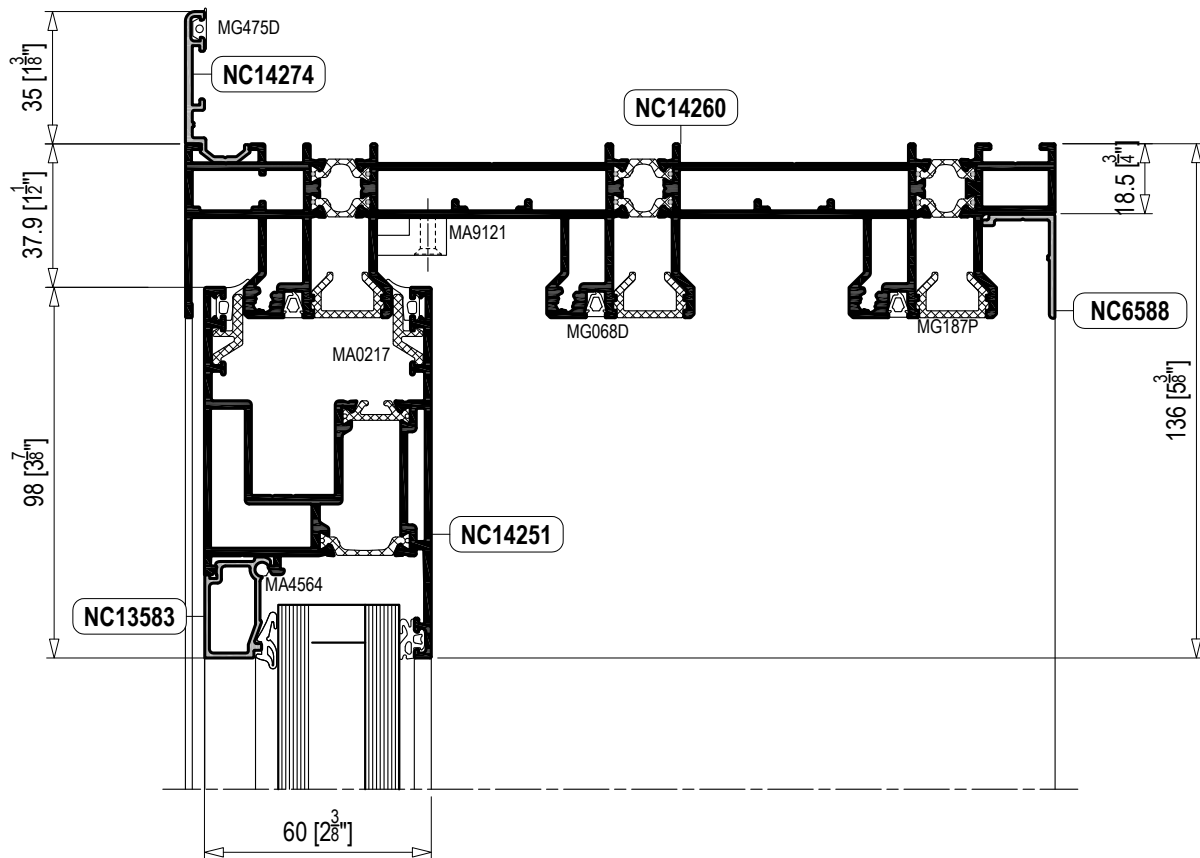
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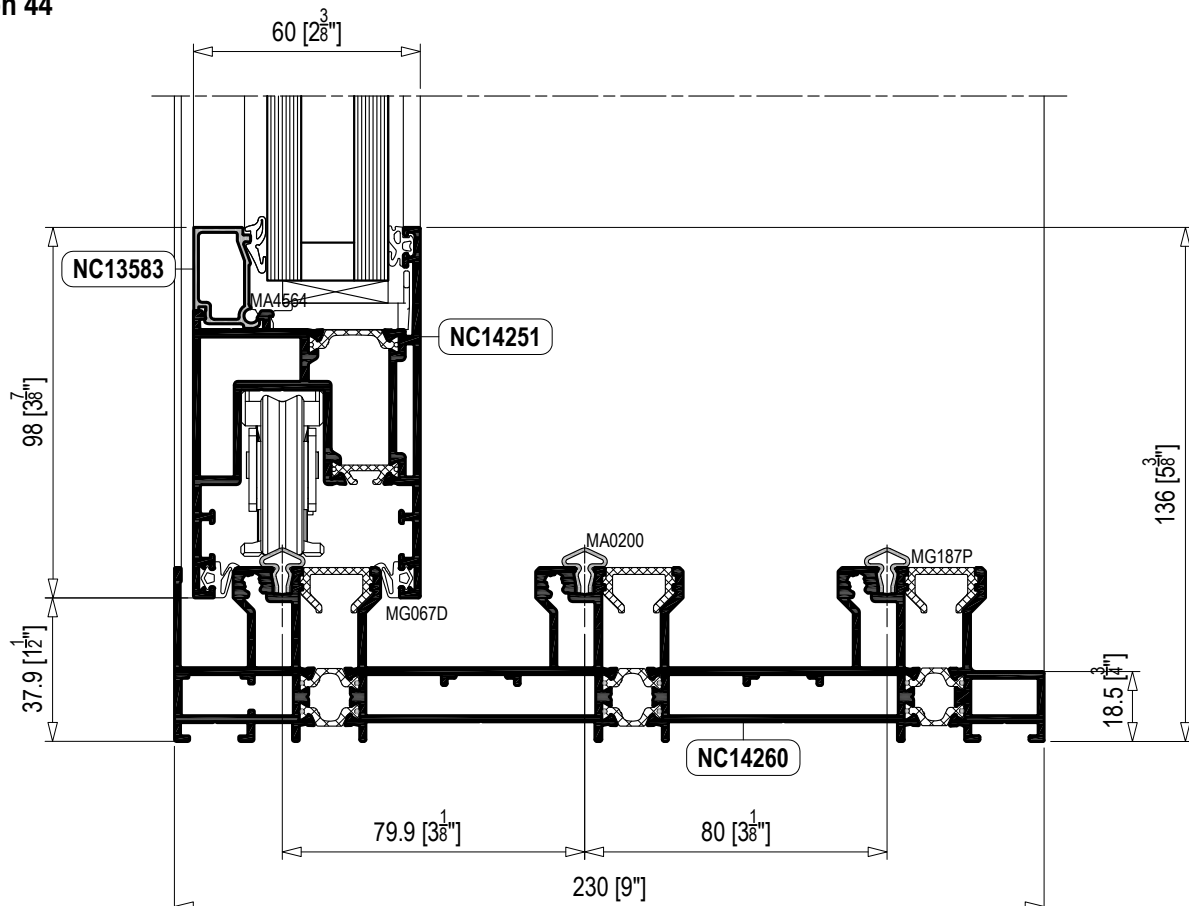
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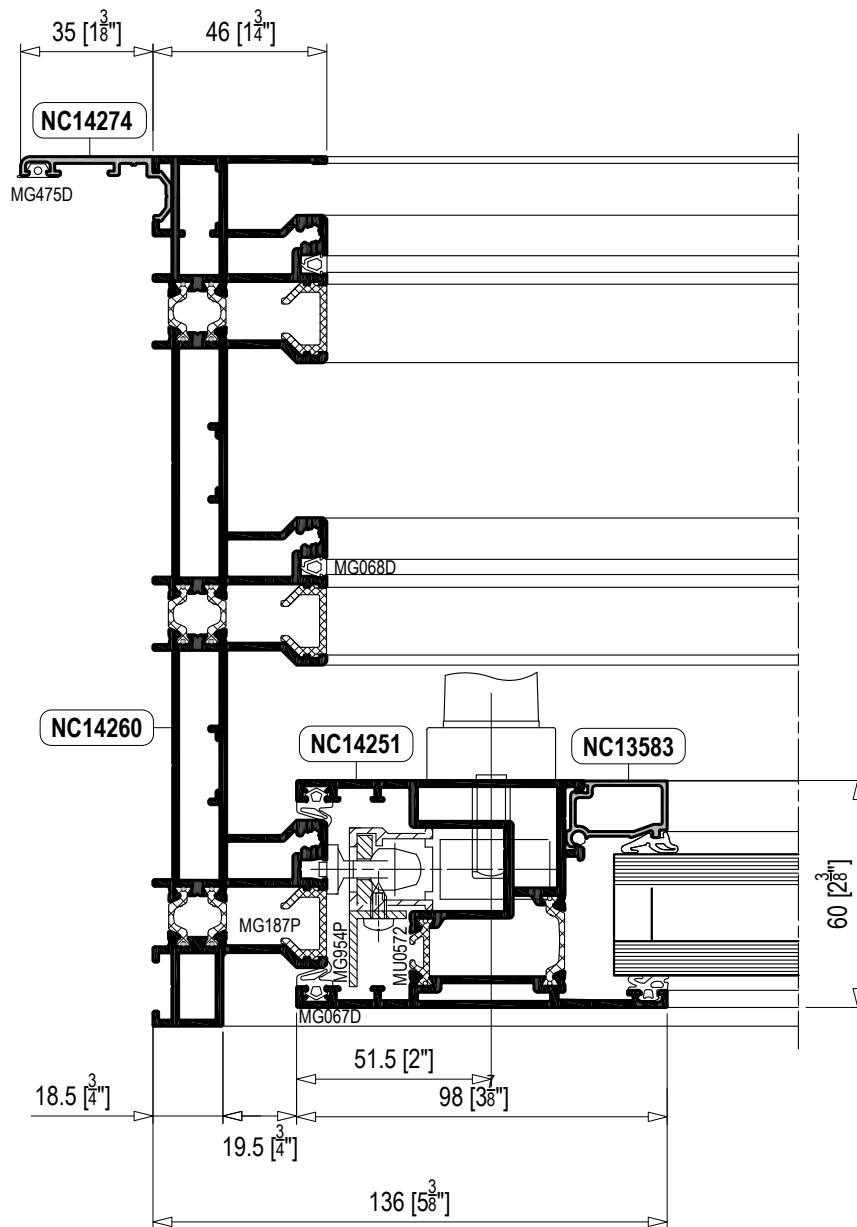
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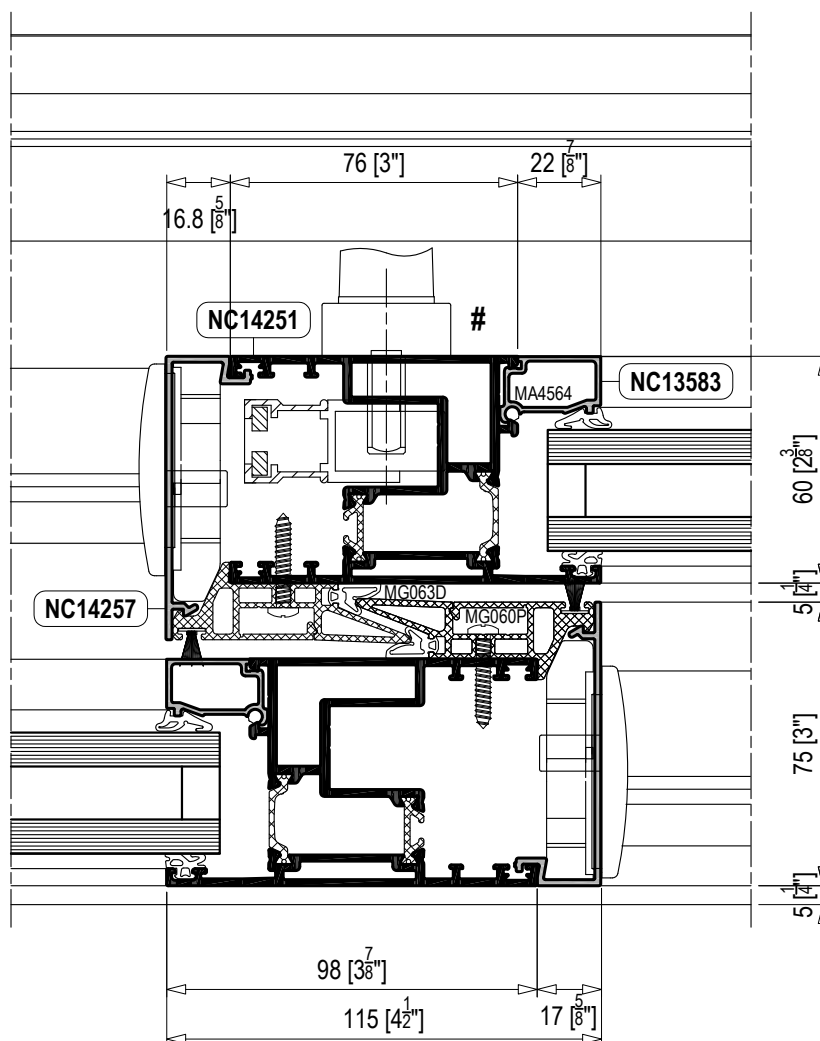
Section 44



Section 45

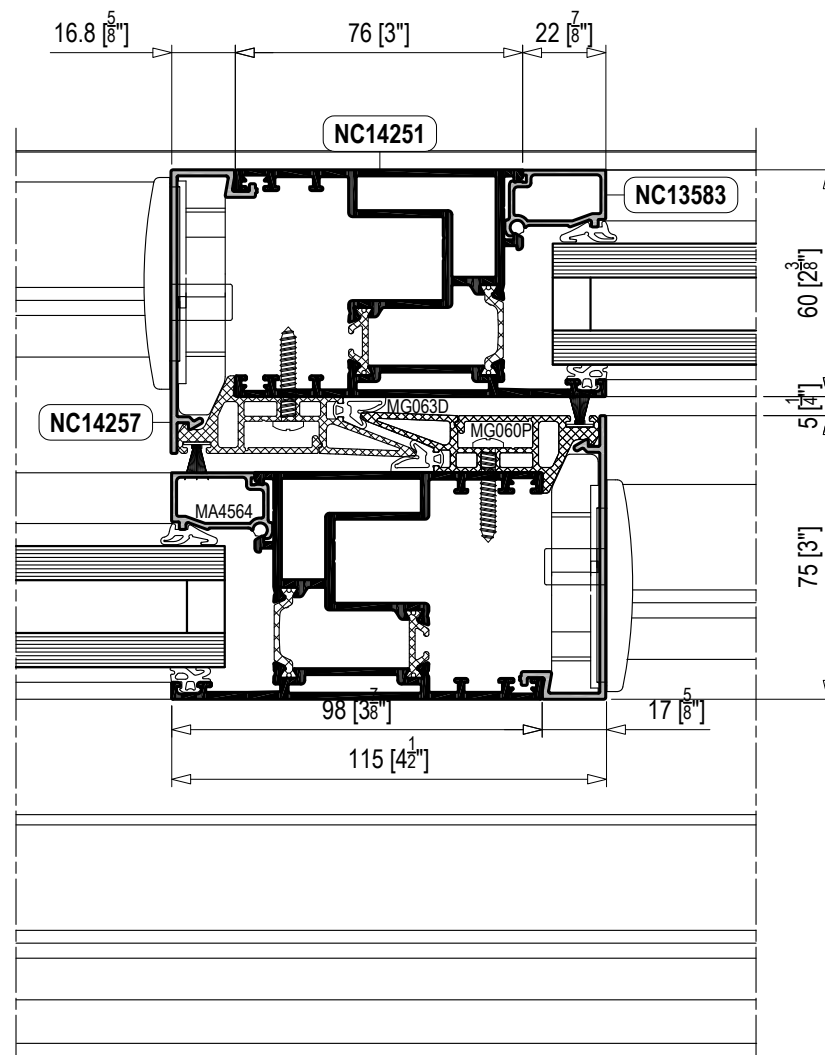


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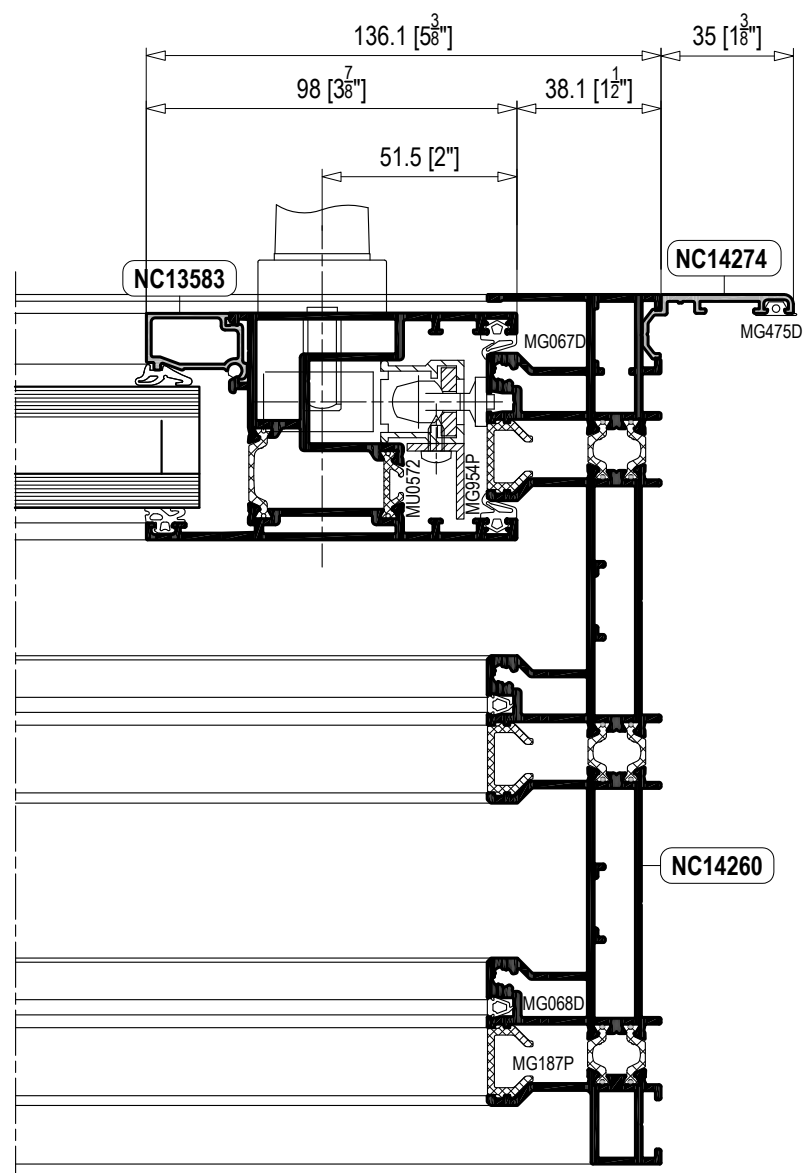


For the fixing of the pull handle use threaded screws on the profile
don't use the external flush pull grip in the package

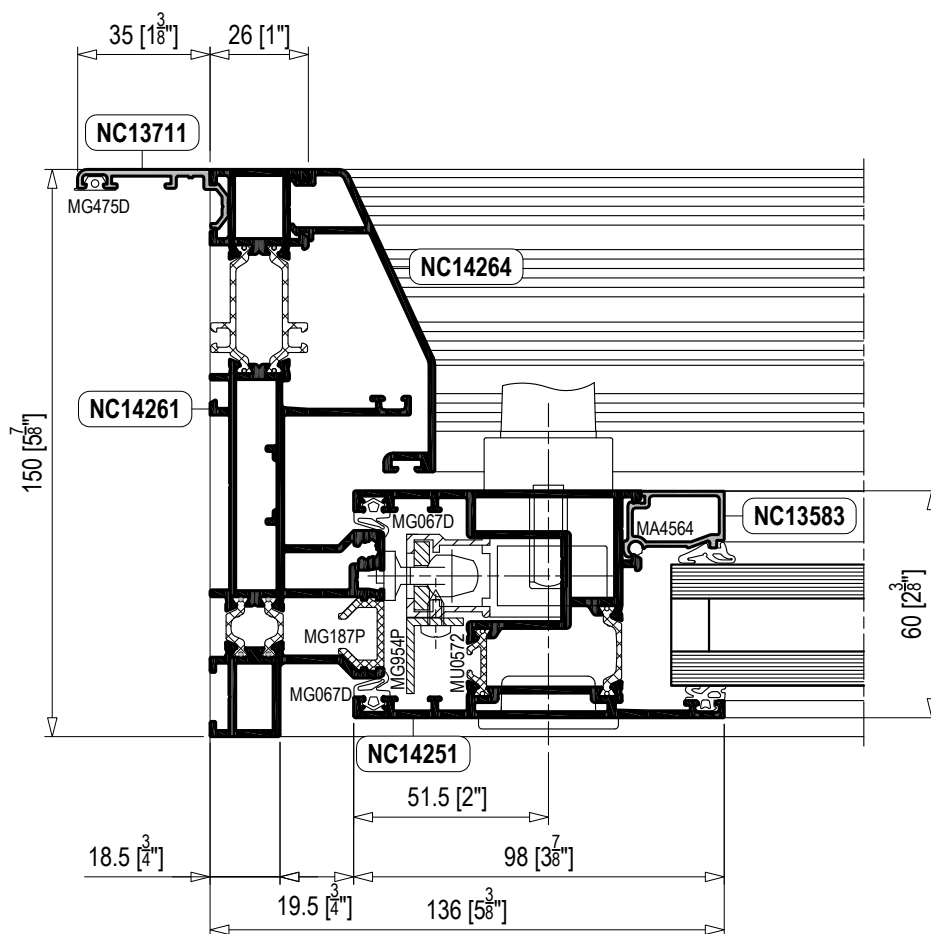
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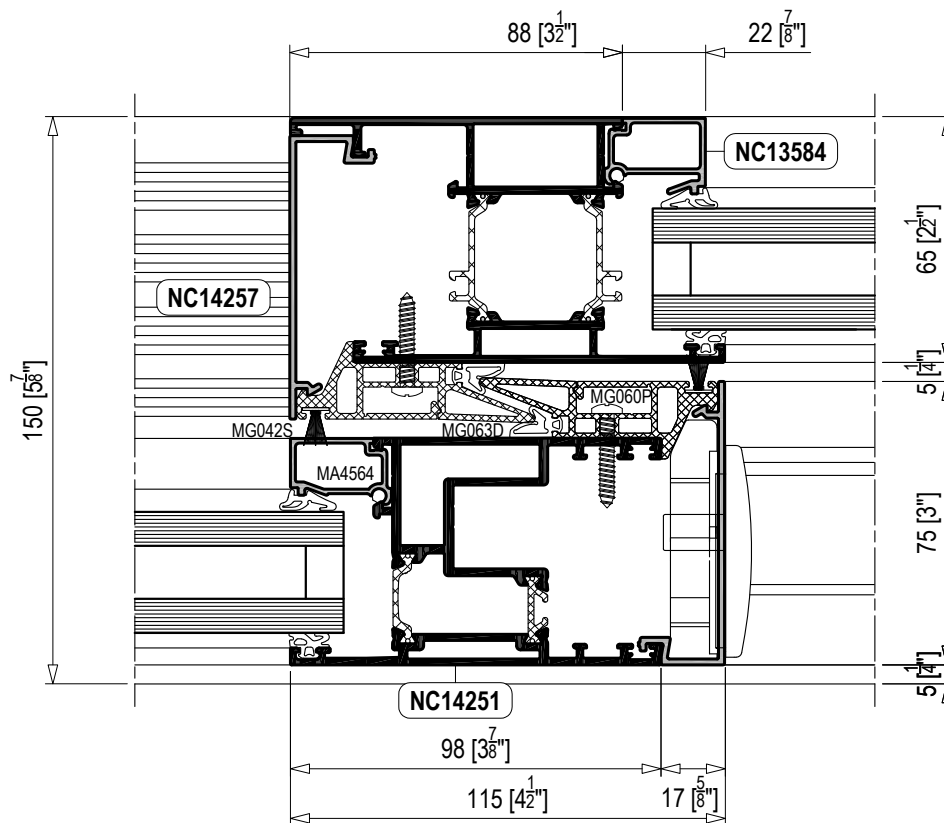
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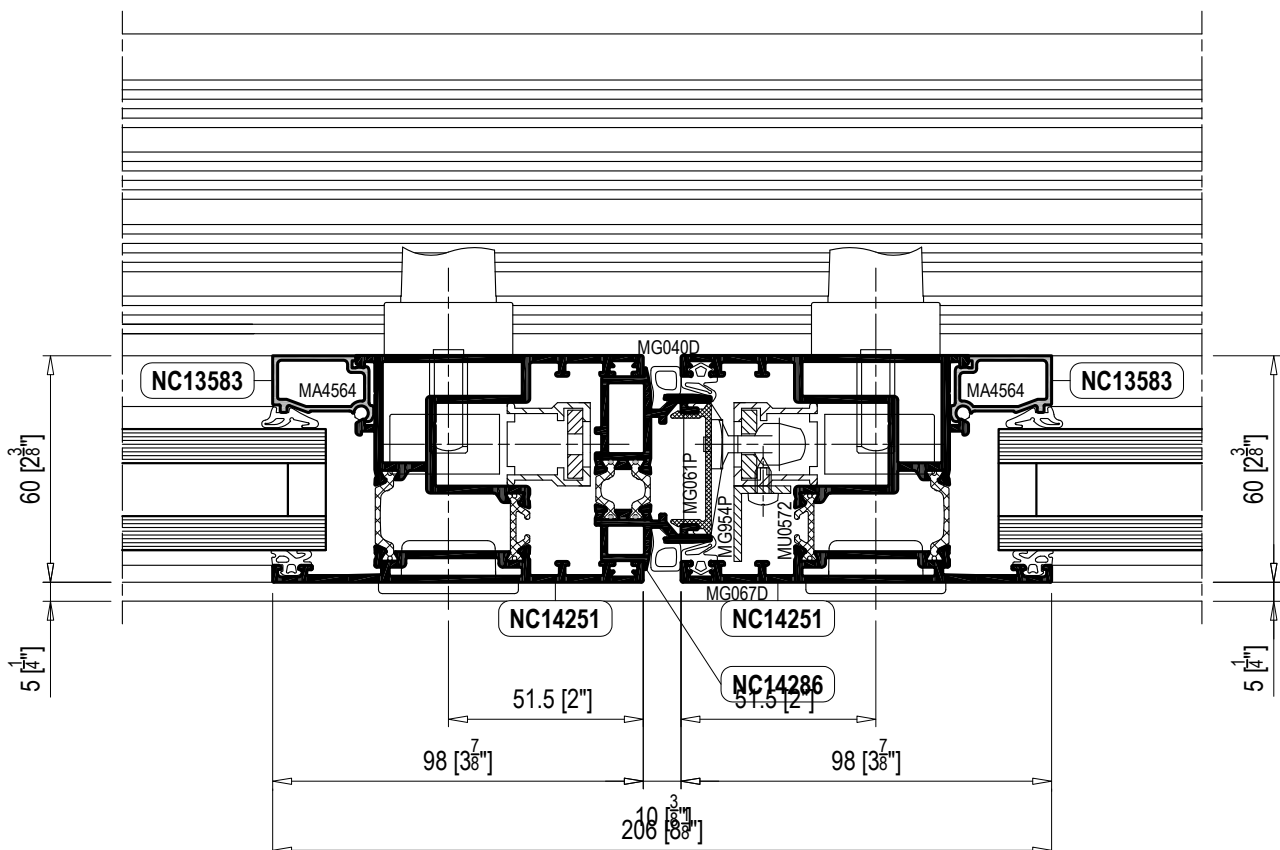
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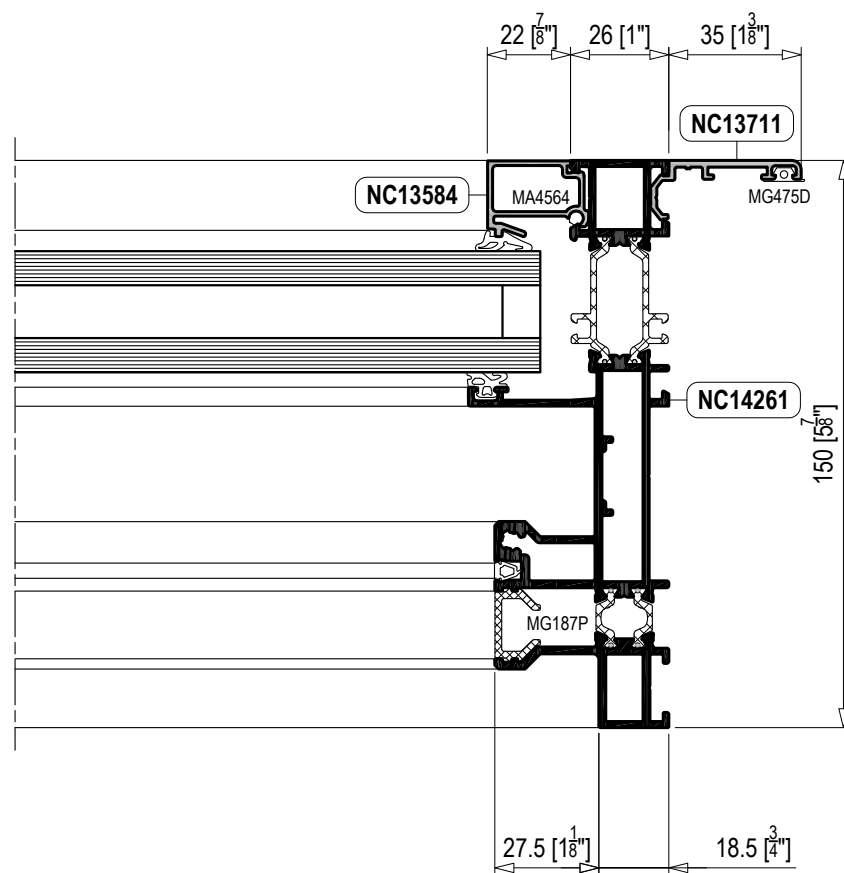
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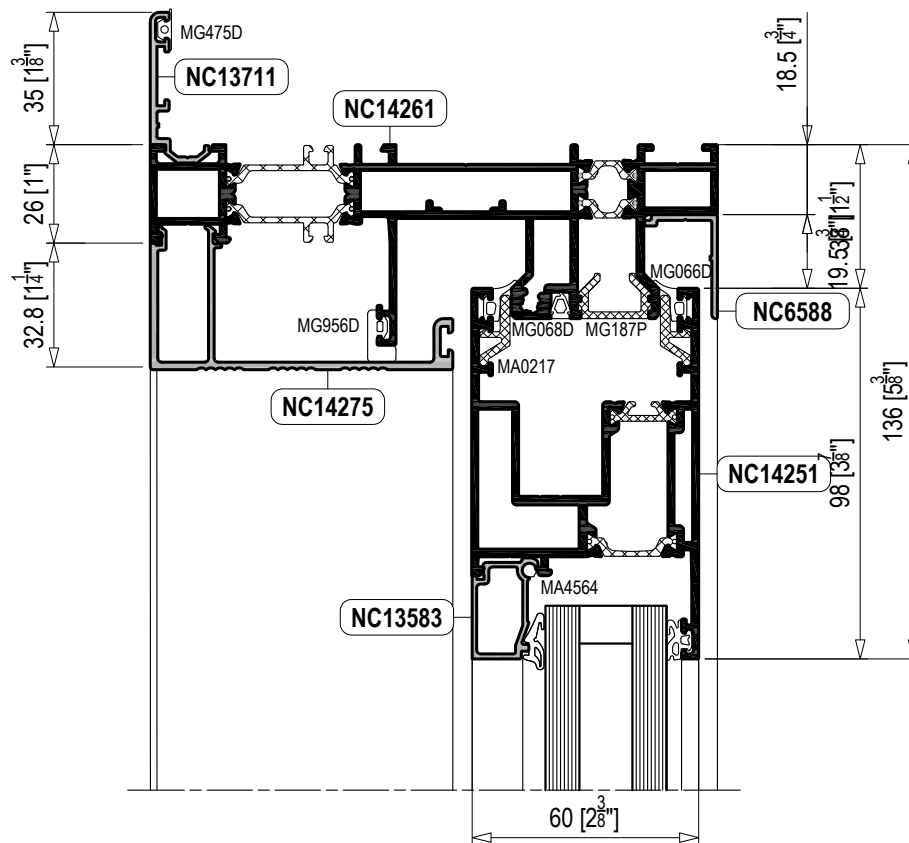
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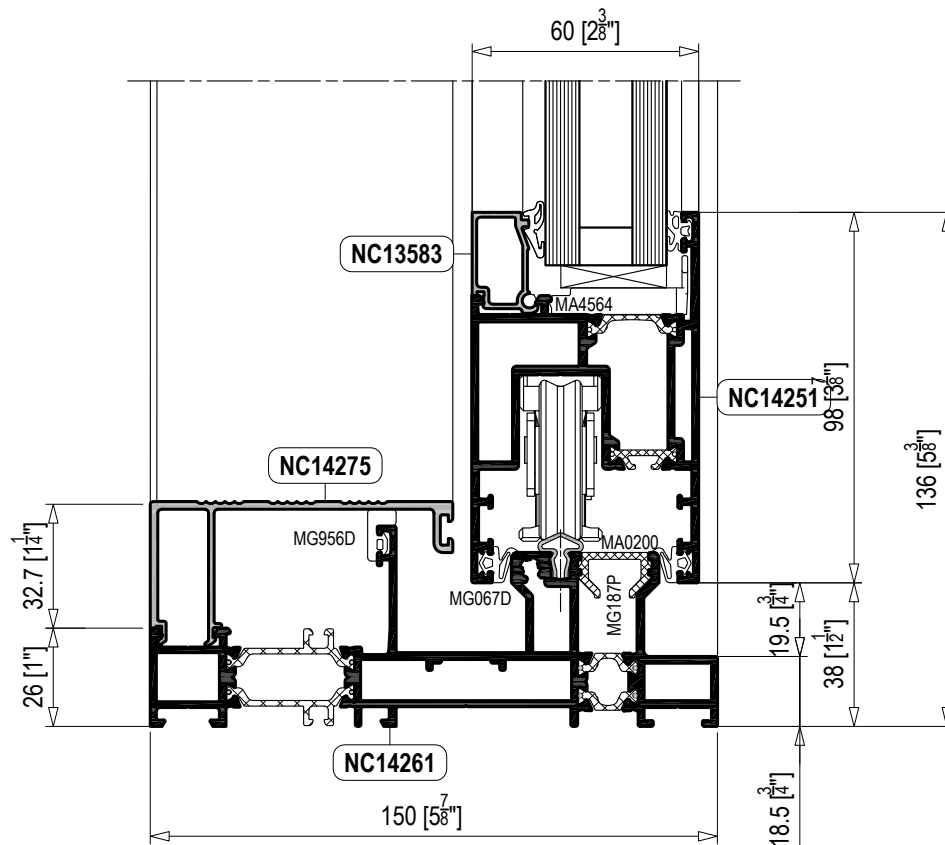
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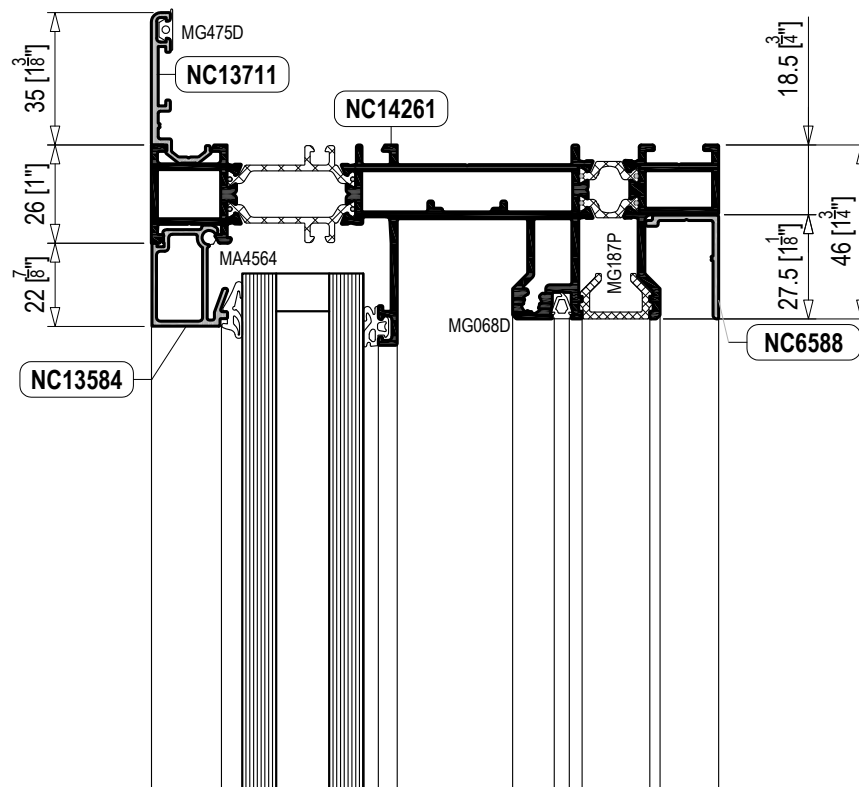
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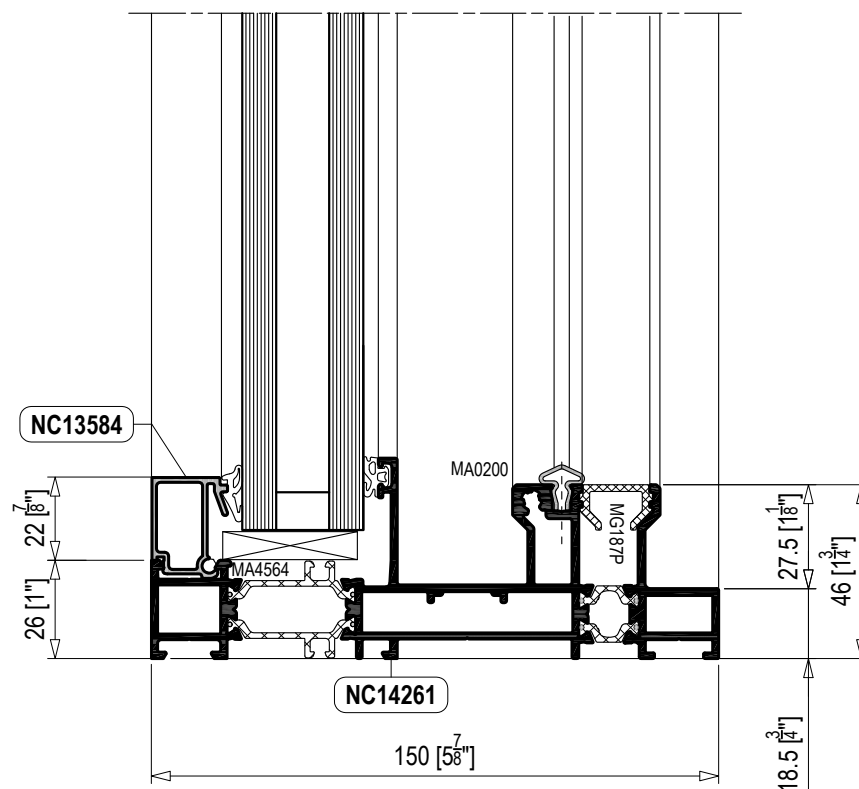
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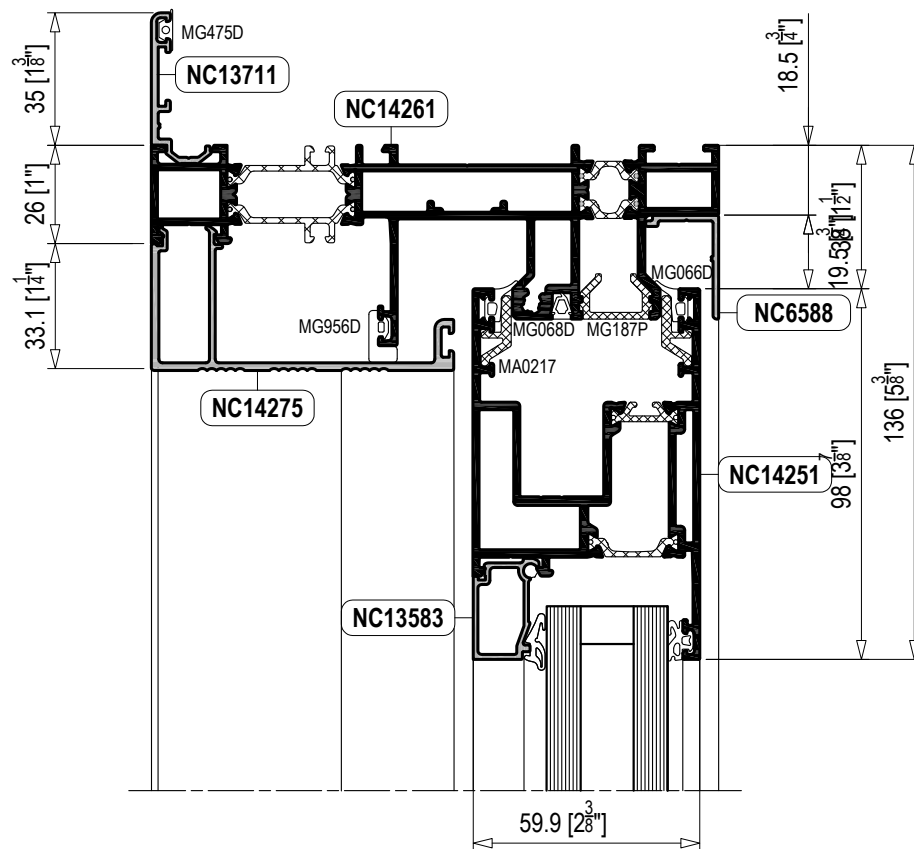
Section 54



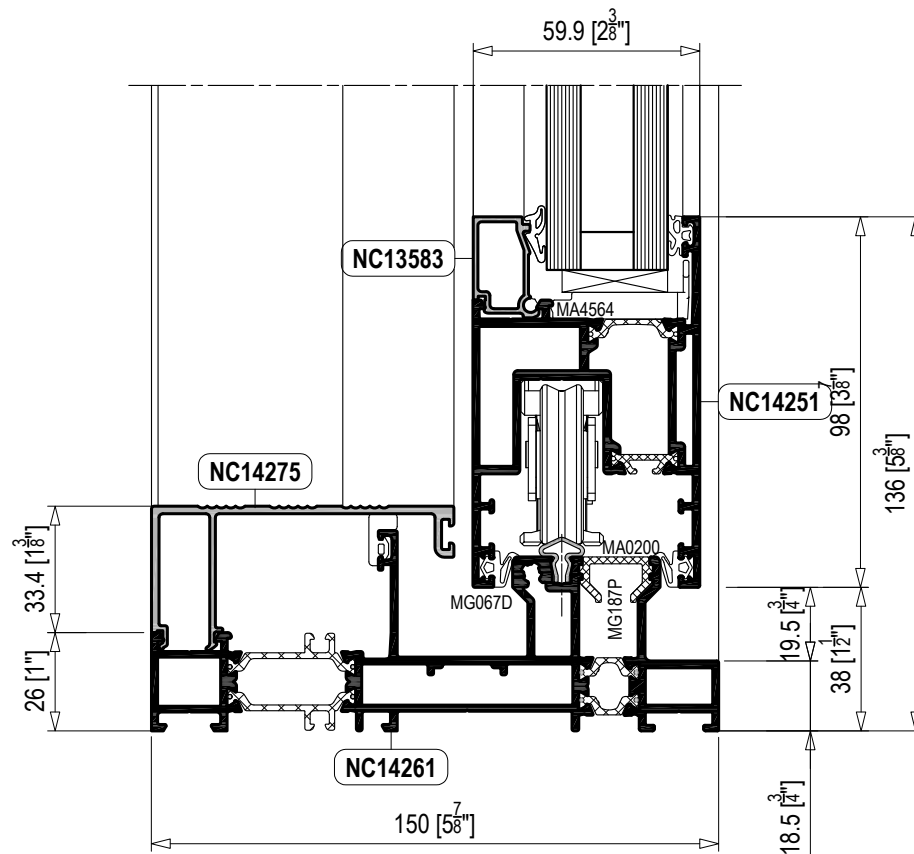
Section 55



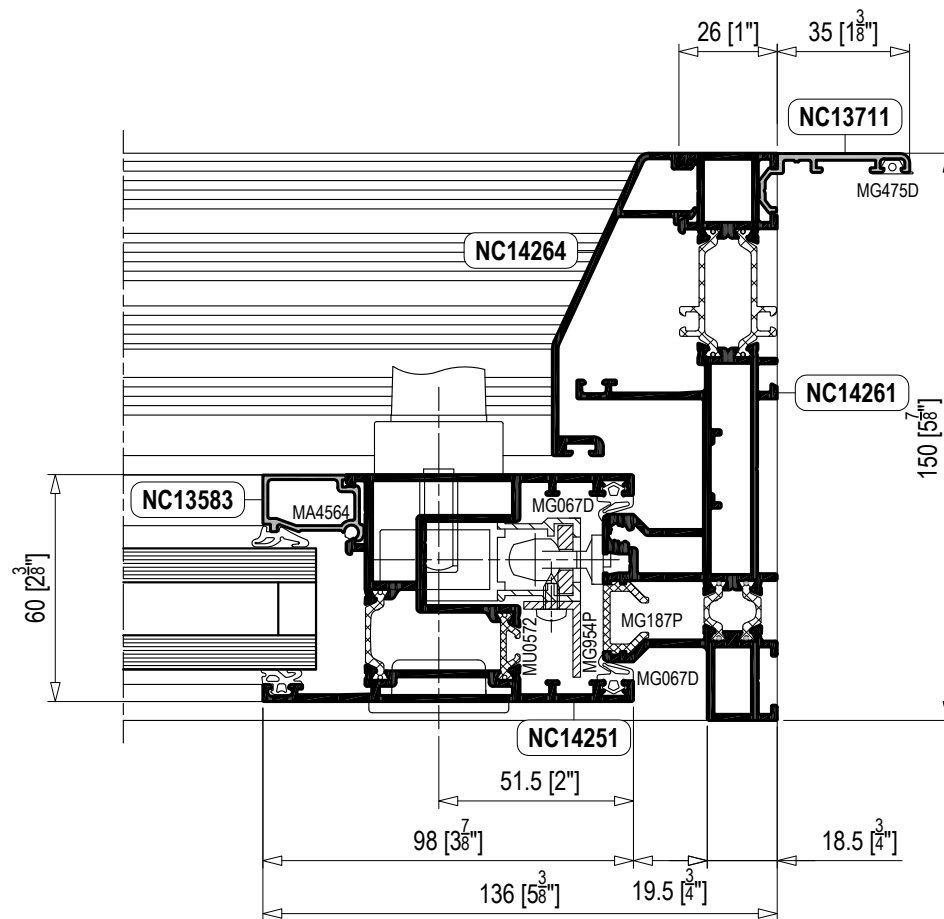
Section 56



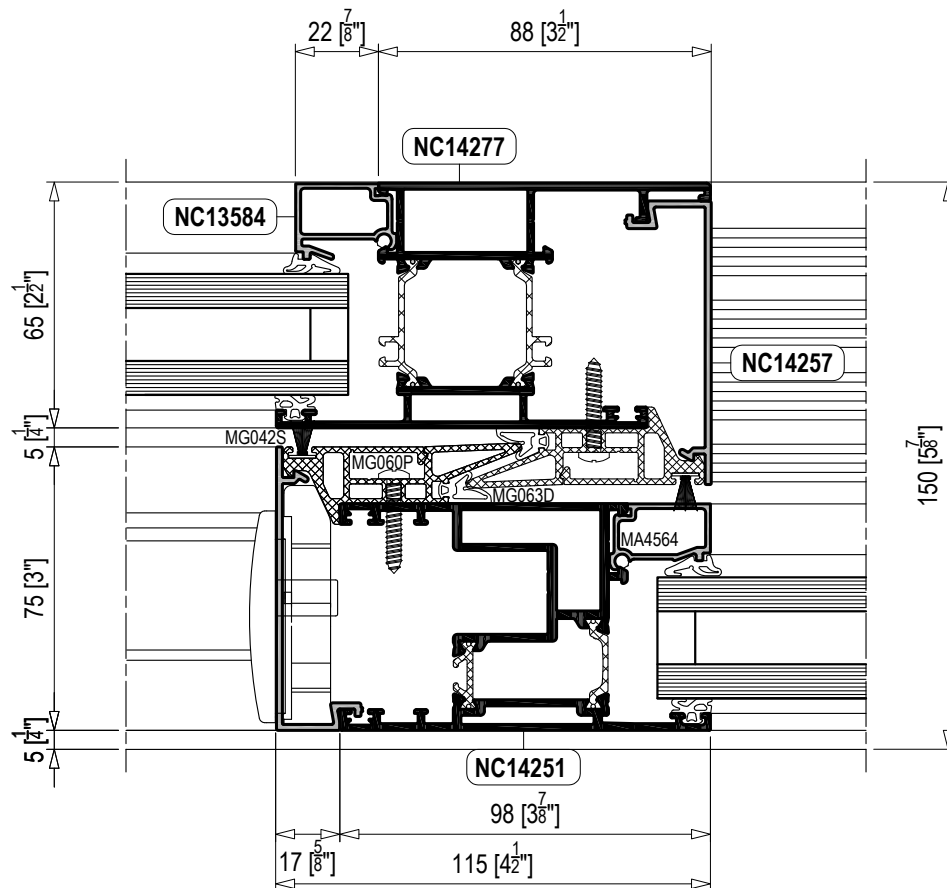
Section 57



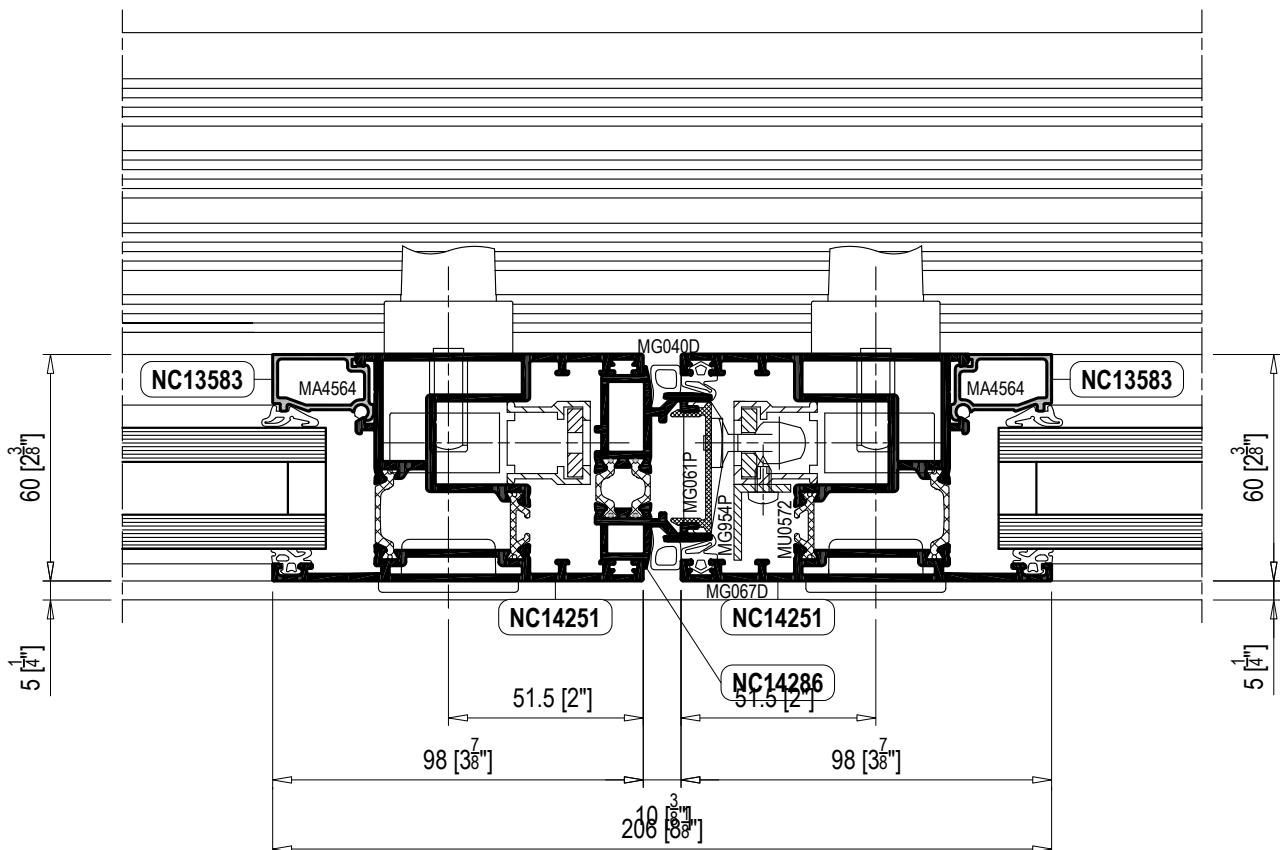
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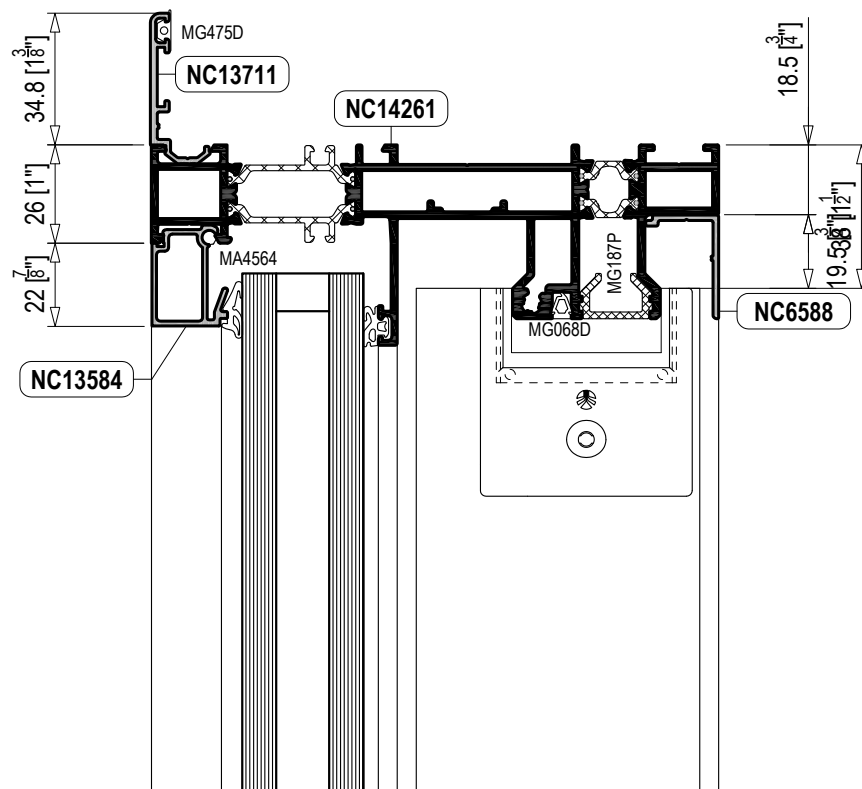
Section 59



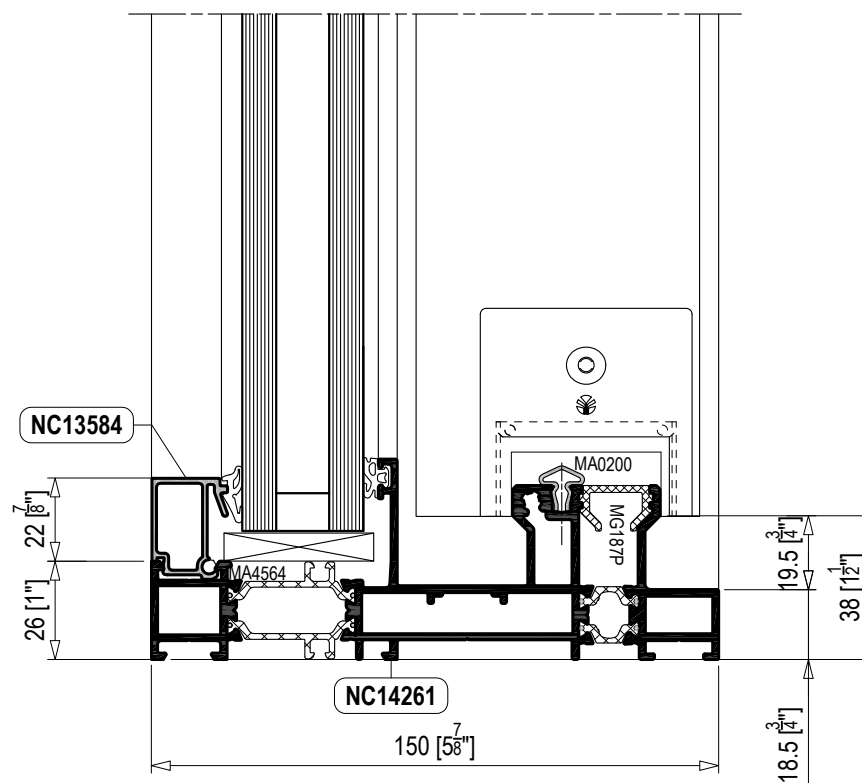
Section 69



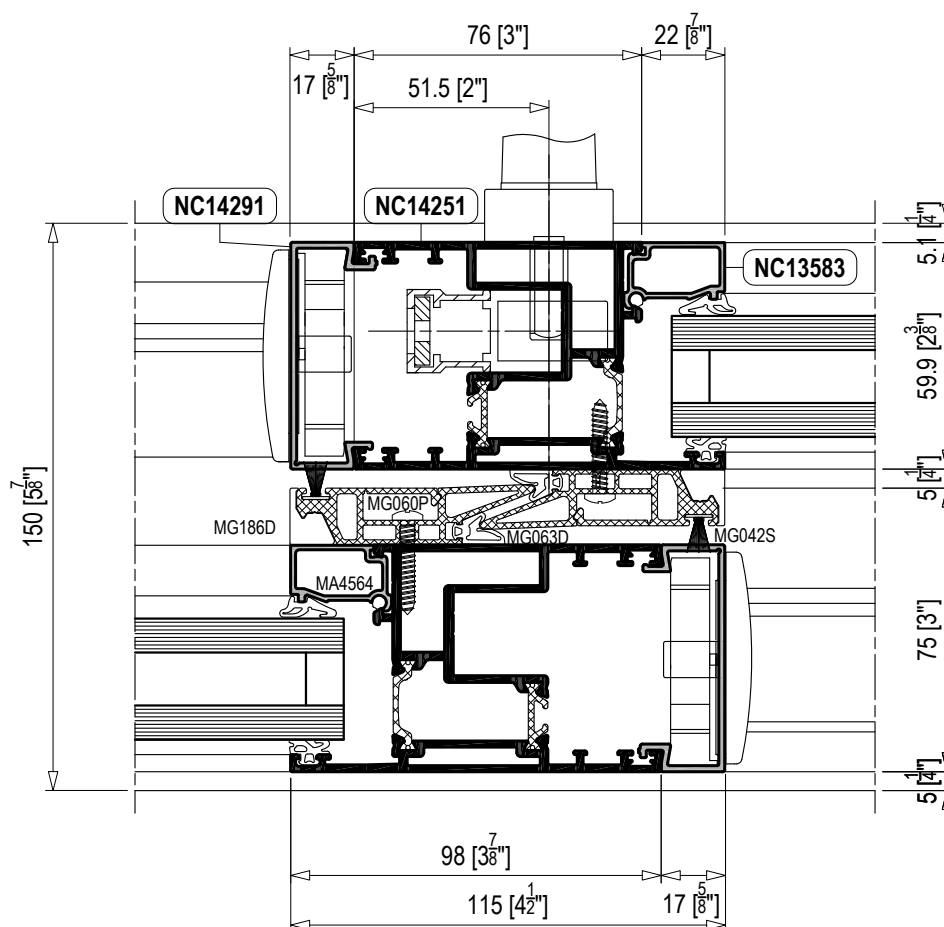
Section 60



Section 61

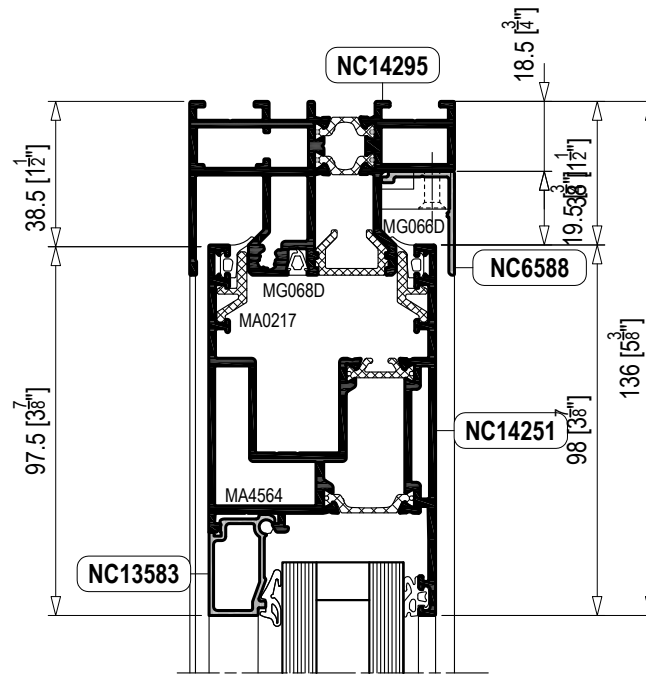


Section 62

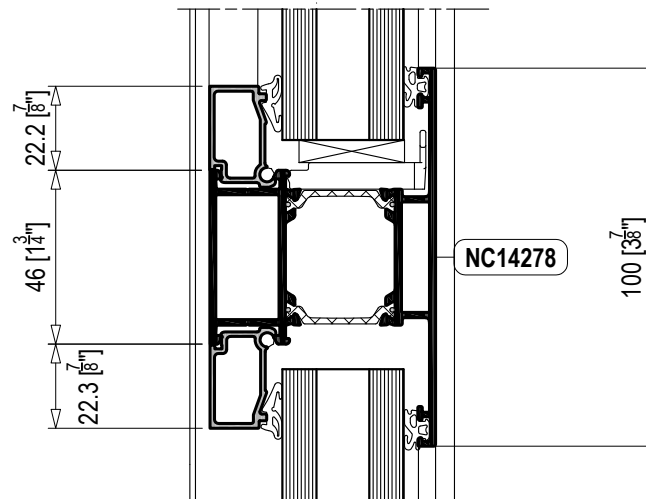


For the fixing of the pull handle use threaded screws on the profile
don't use the external flush pull grip in the package

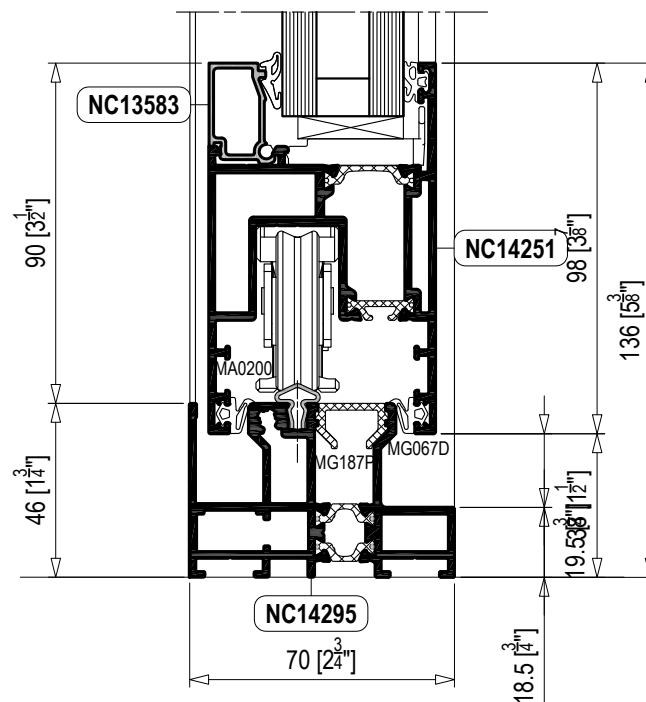
Section 63



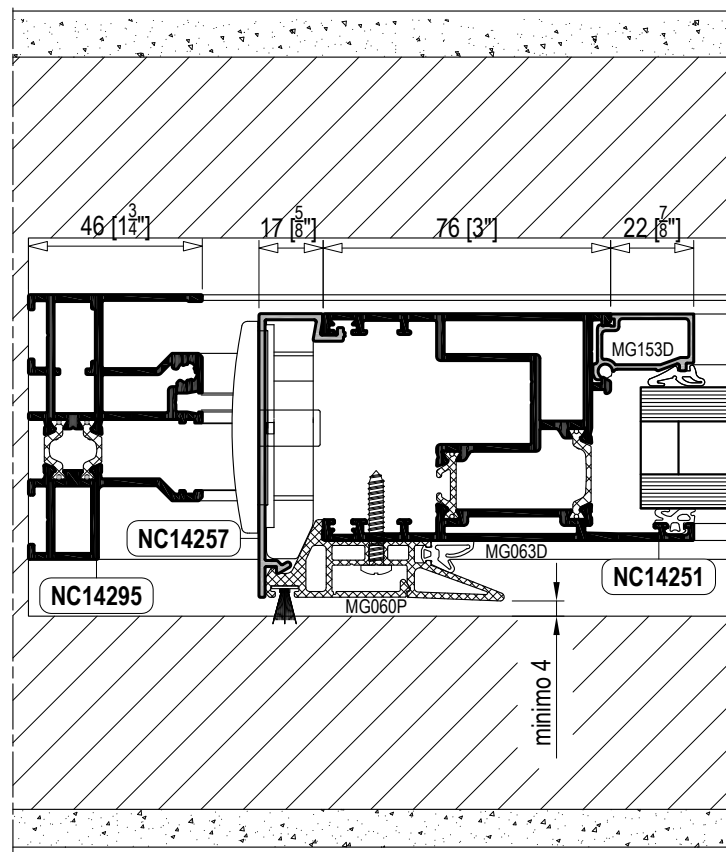
Section 68



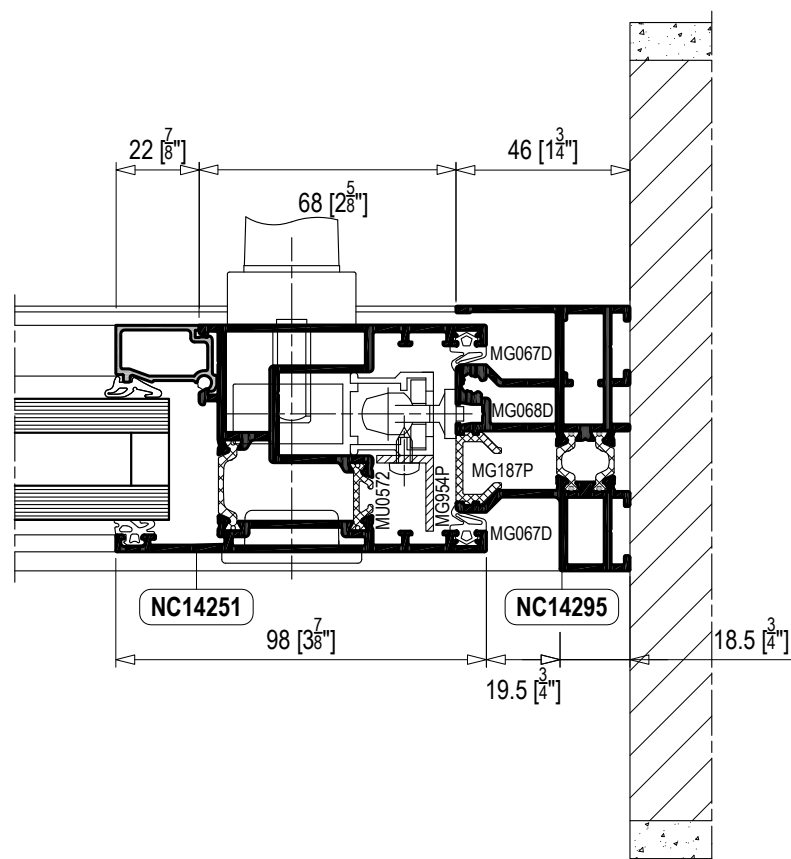
Section 64



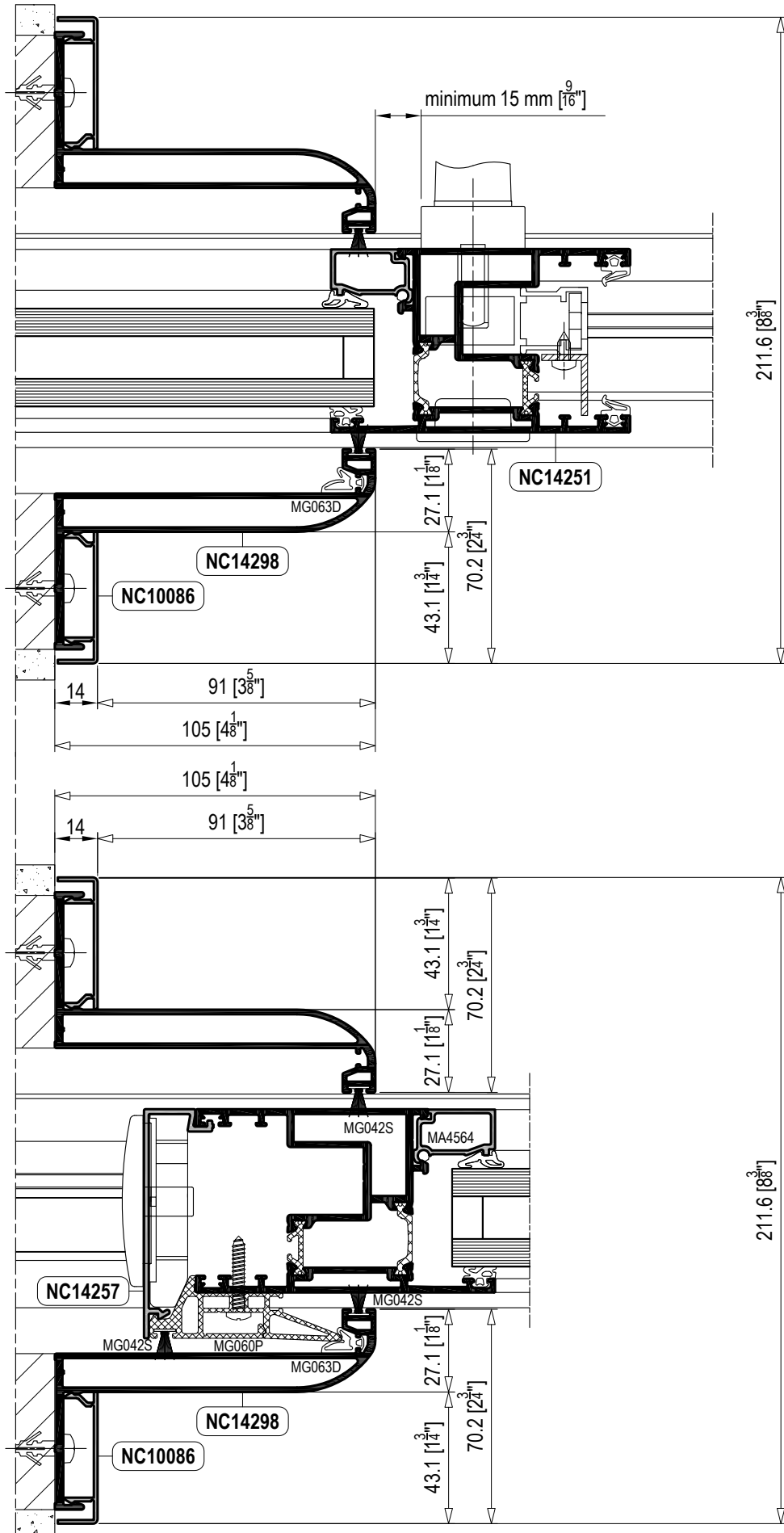
Section 65



Section 67



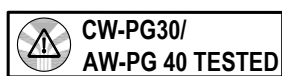
Section 66



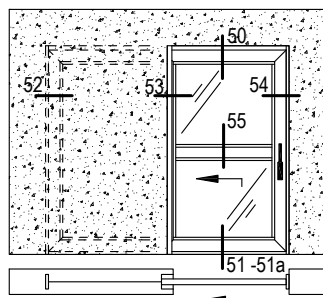
Opening types

Frame 90° - sash 45°

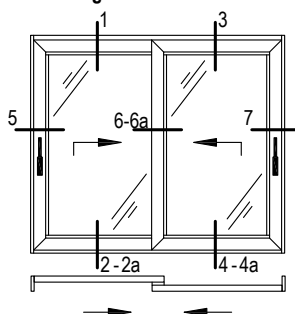
Lift-and-slide



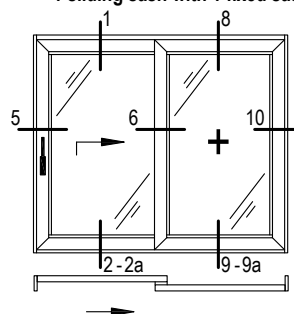
1 sash sliding in the wall



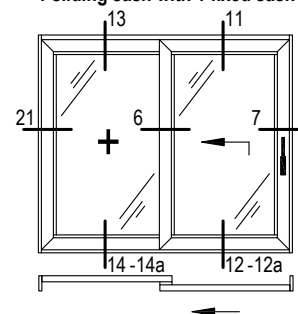
2 sliding sashes on 2 tracks



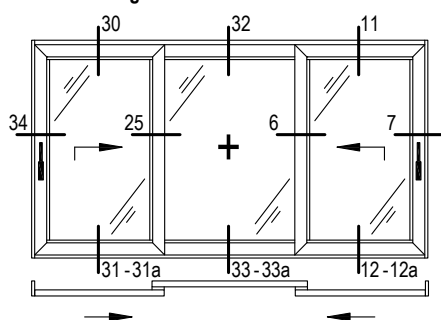
1 sliding sash with 1 fixed sash



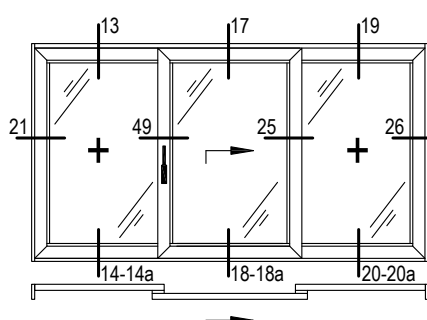
1 sliding sash with 1 fixed sash



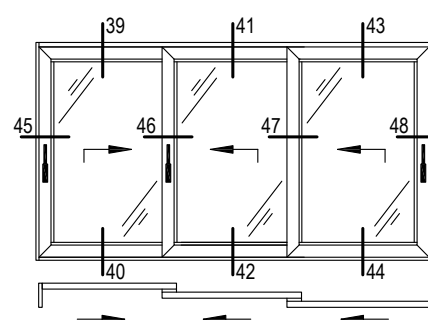
2 sliding sashes with 1 central fixed sash



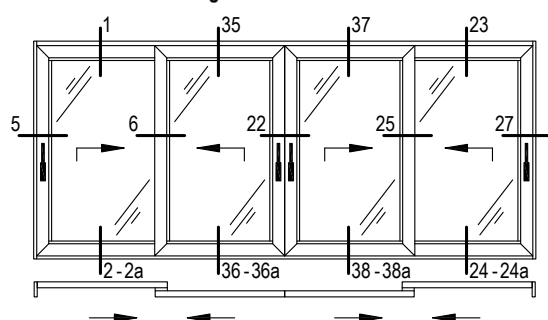
2 fixed sashes with 1 central sliding sash



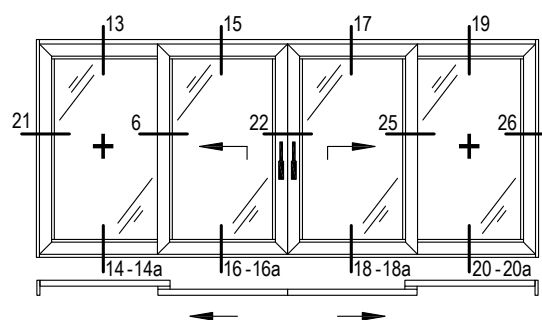
3 sliding sashes on 3 tracks



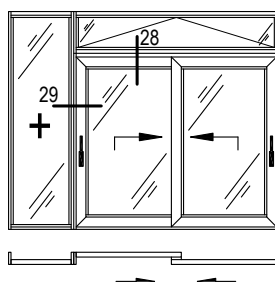
4 sliding sashes on 2 tracks



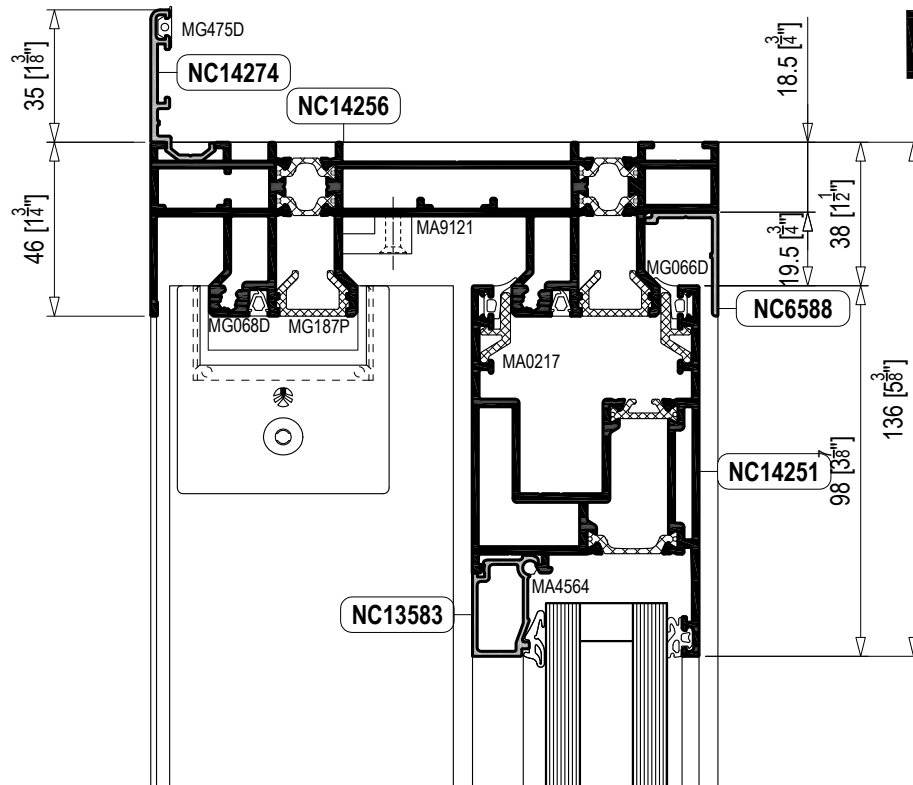
2 sliding sashes with 2 fixed sashes



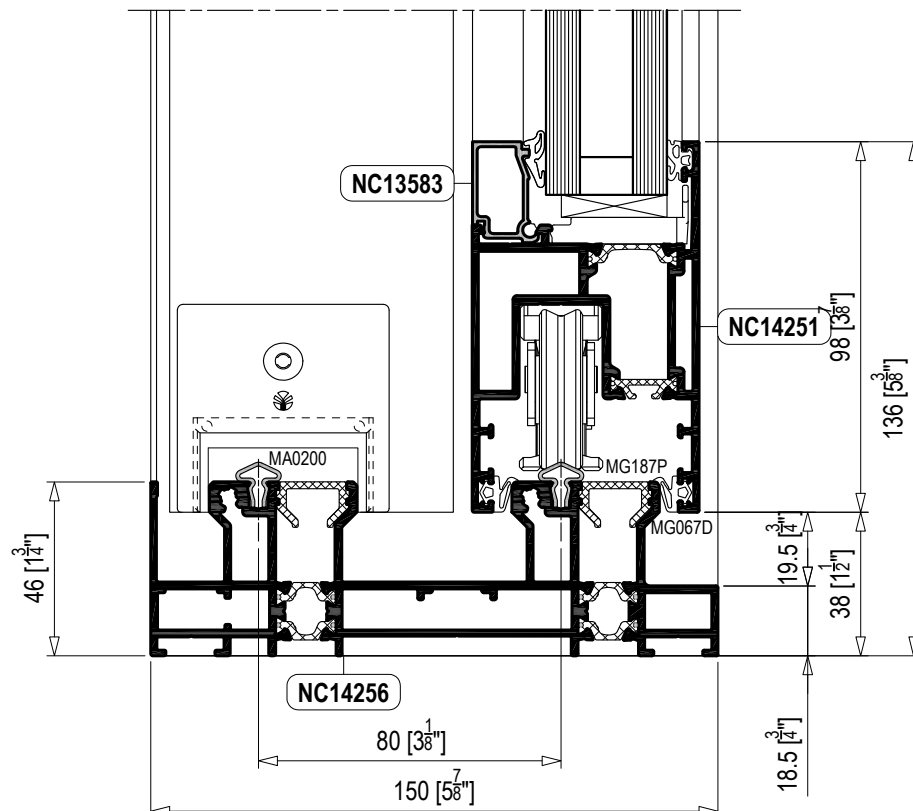
2 sliding sashes on 2 tracks with fanlight and fixed side light



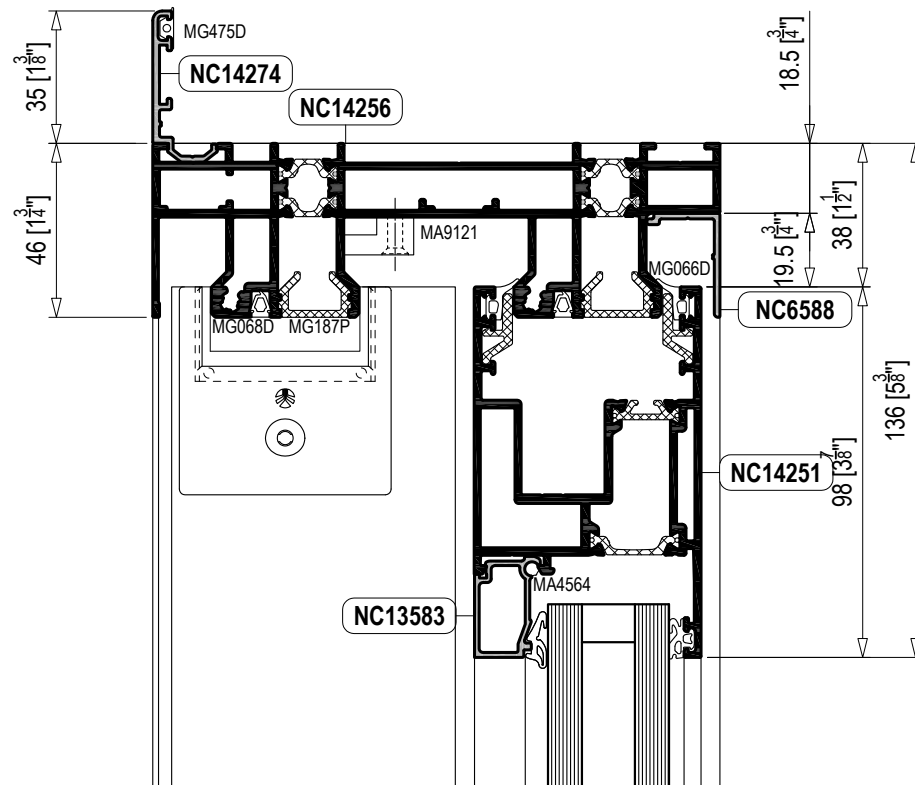
Section 1



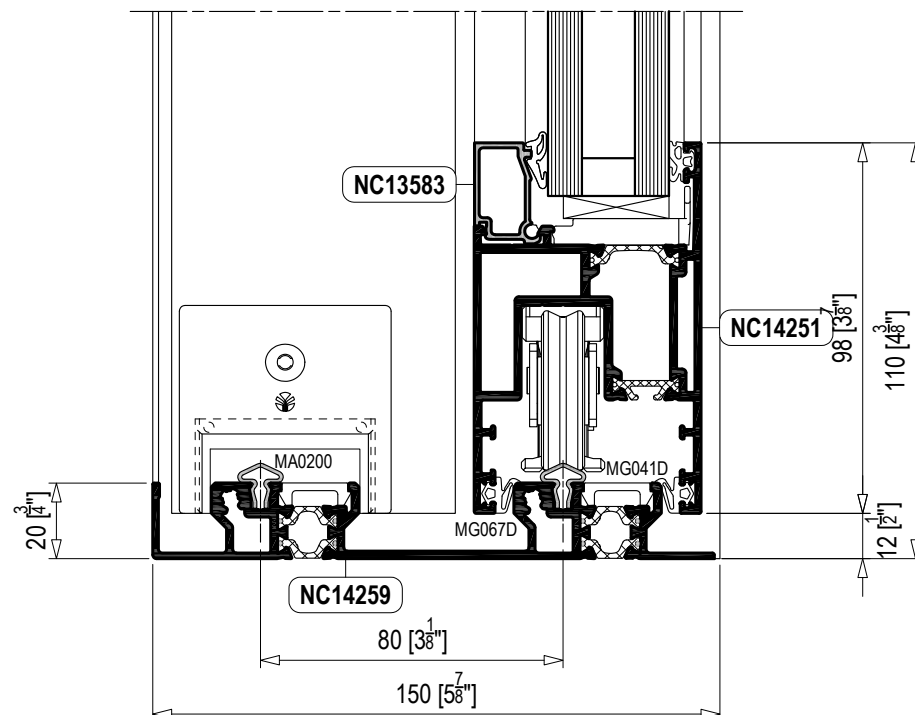
Section 2



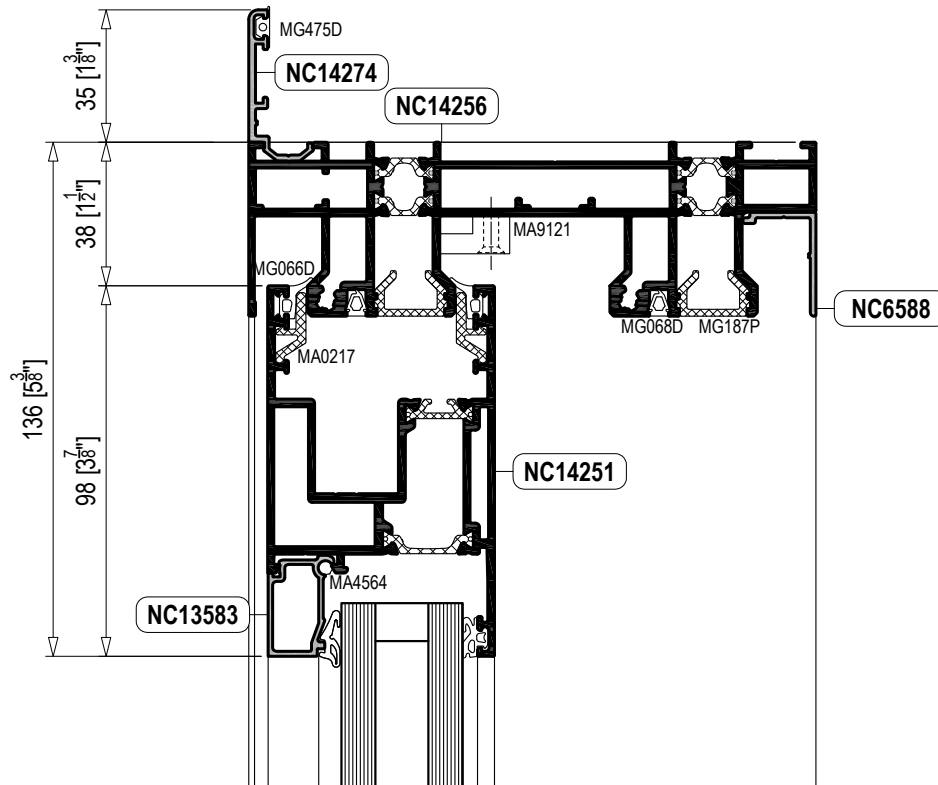
Section 1



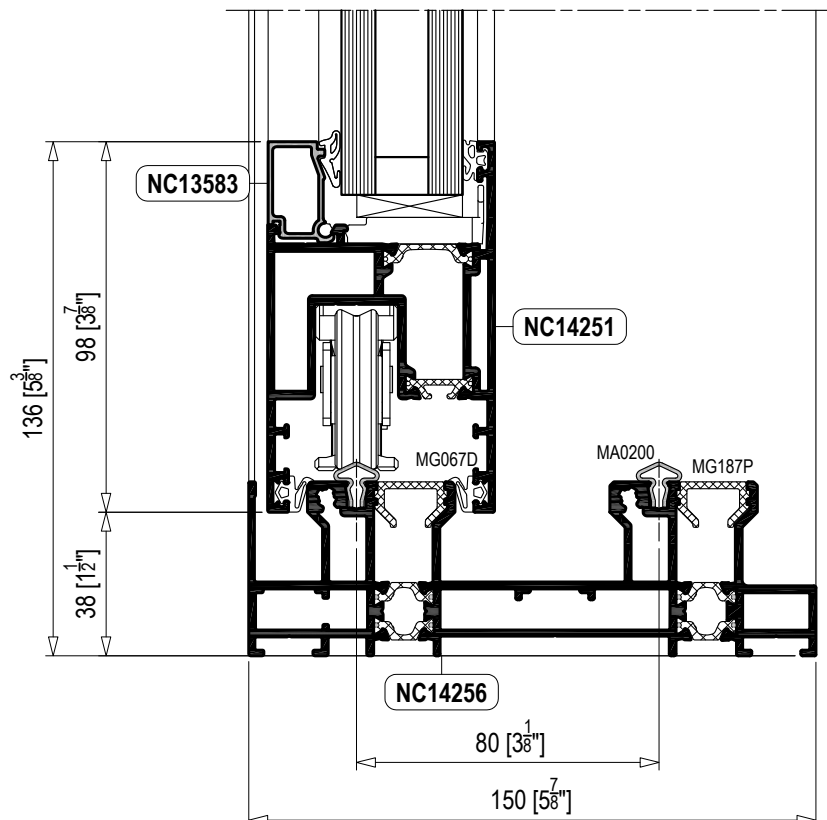
Section 2a



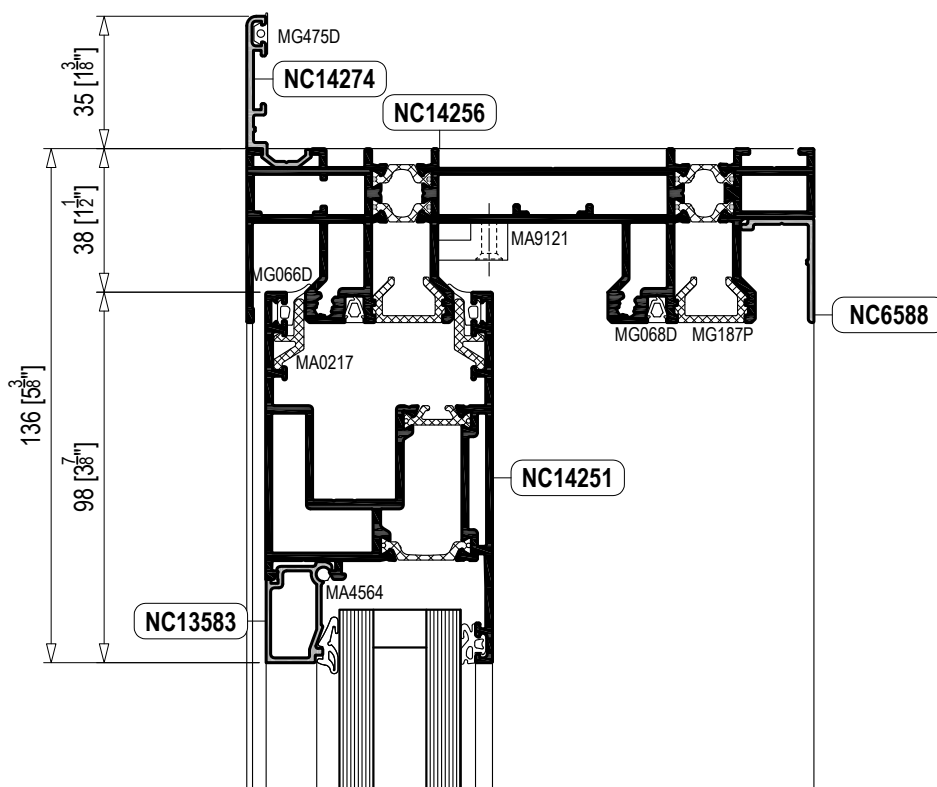
Section 3



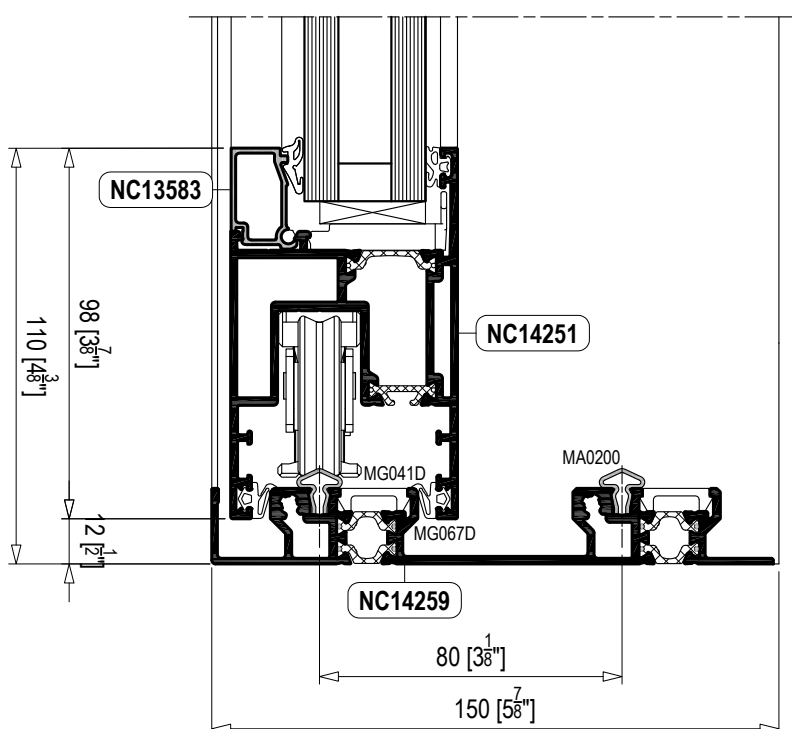
Section 4



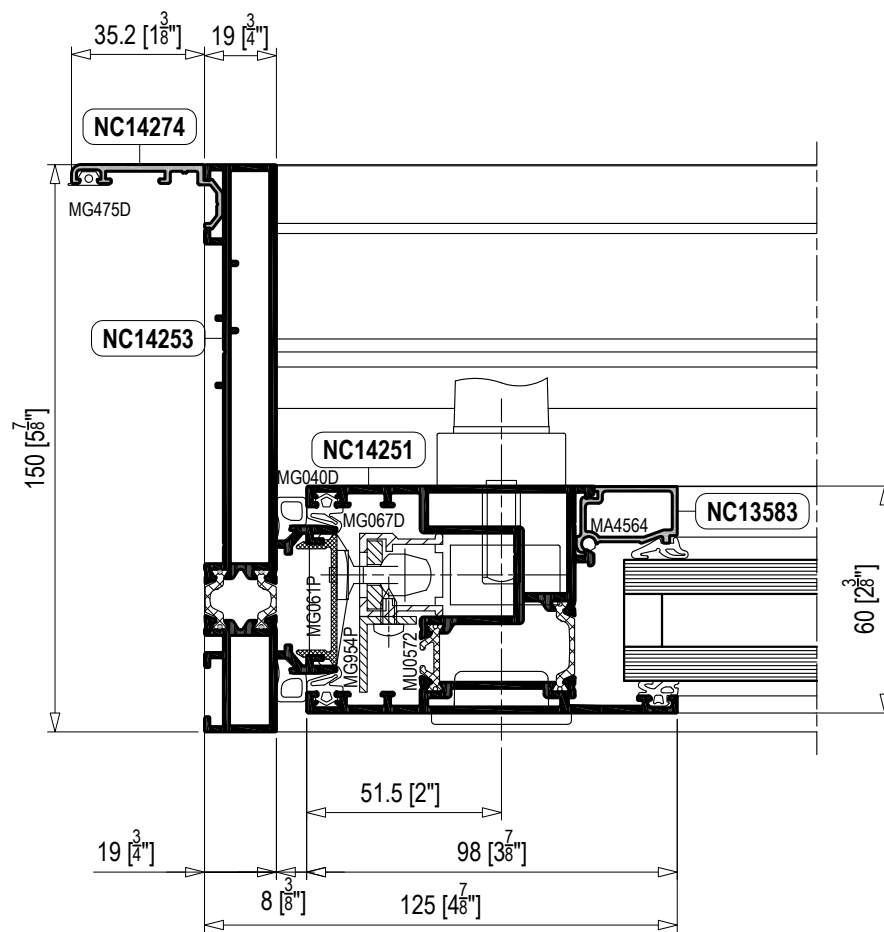
Section 3



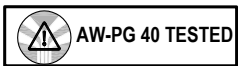
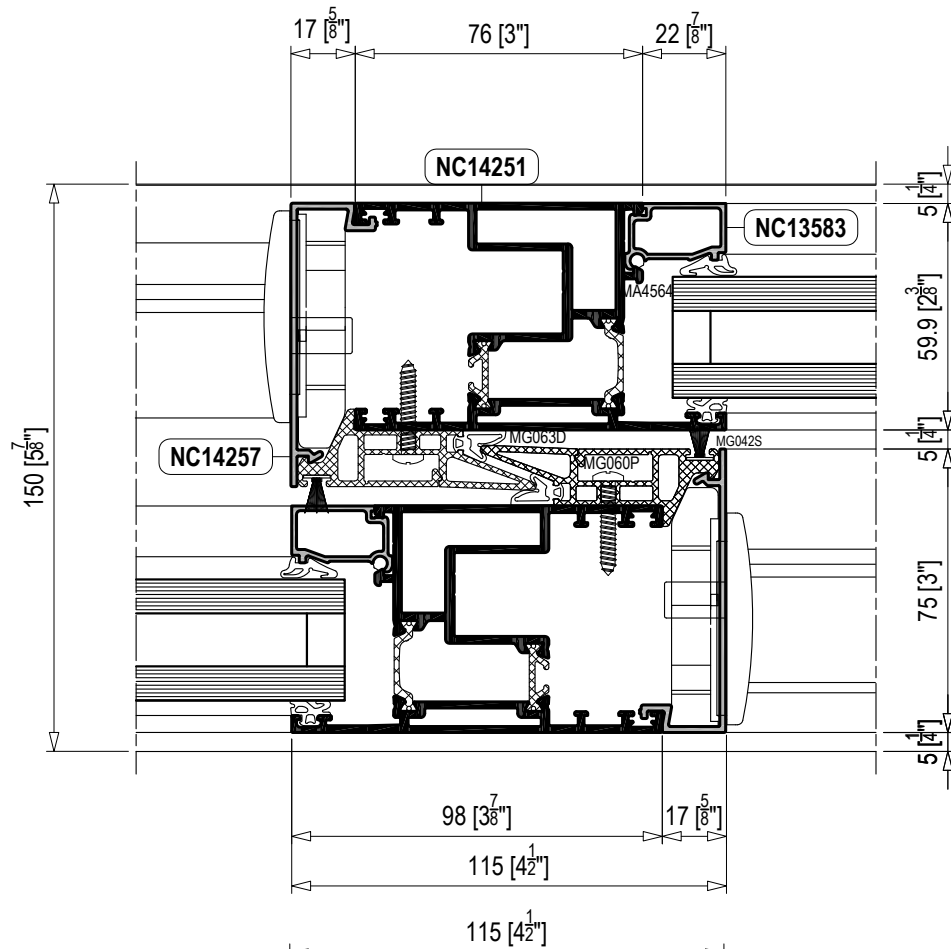
Section 4a



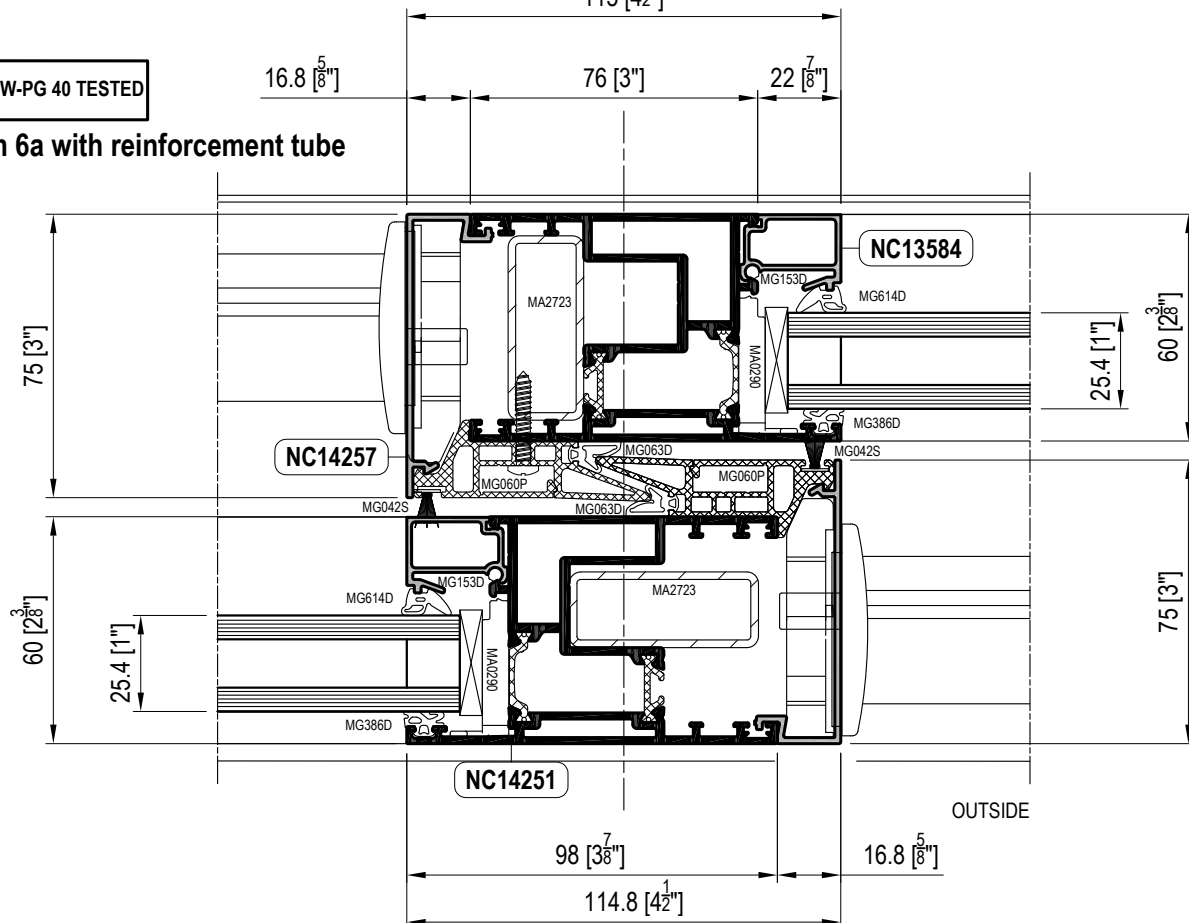
Section 5



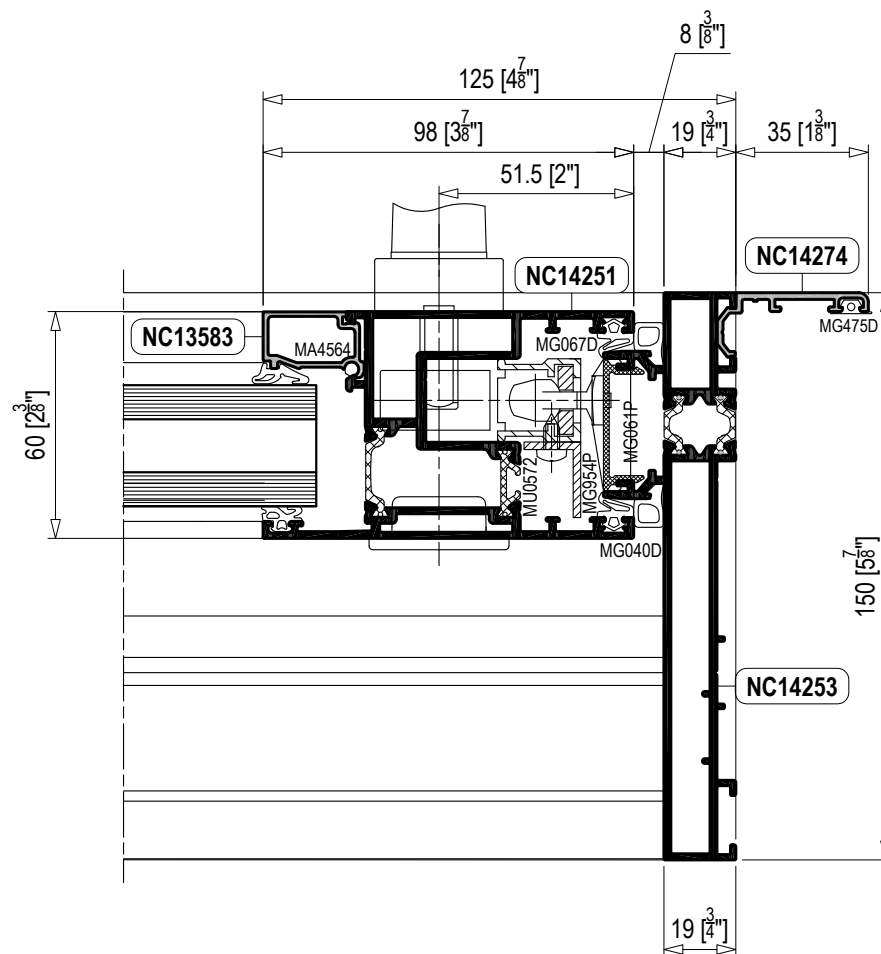
Section 6



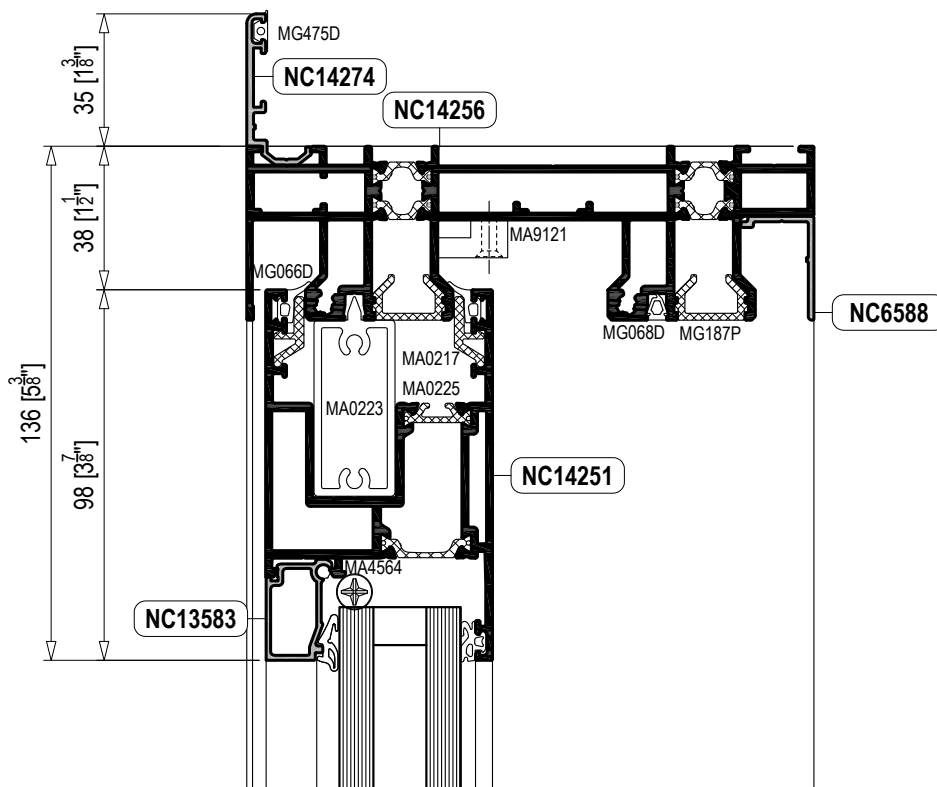
Section 6a with reinforcement tube



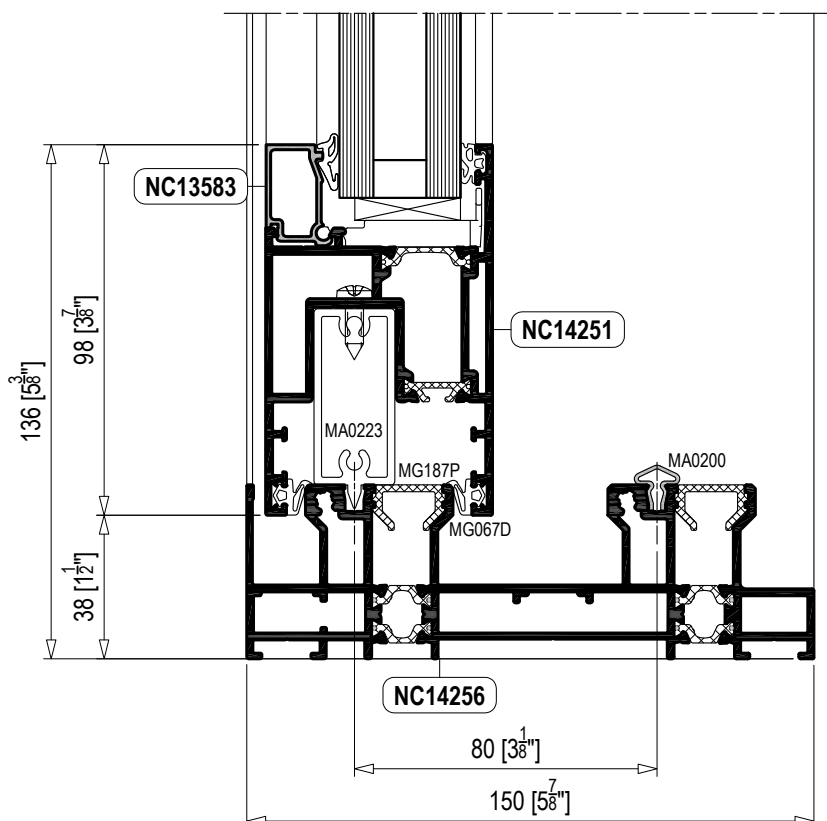
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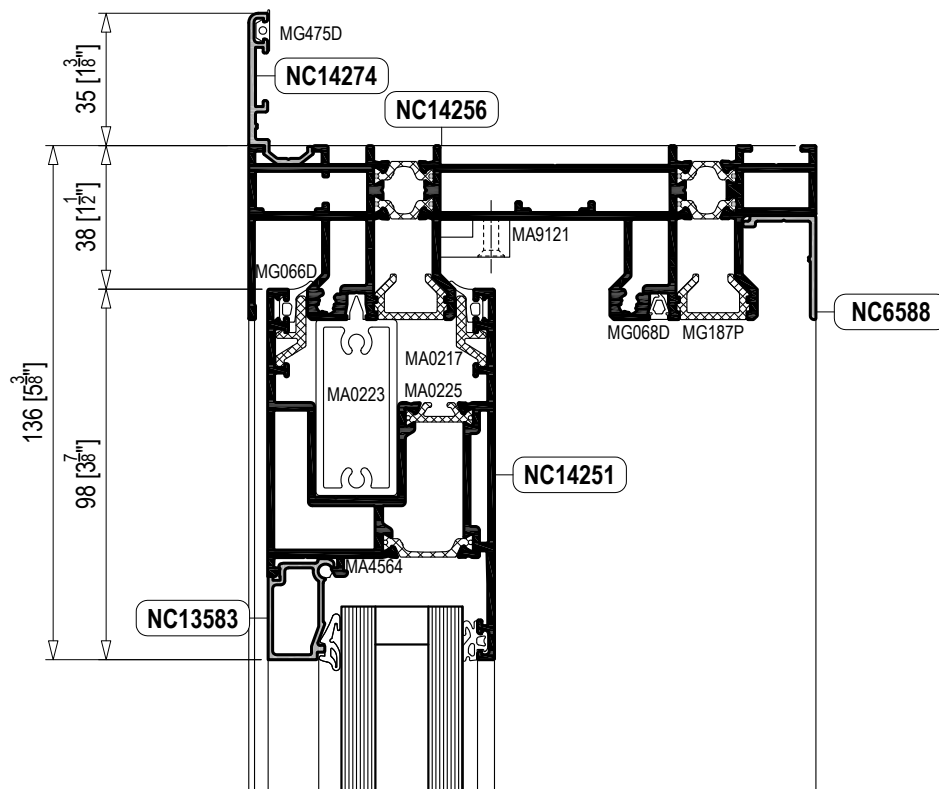
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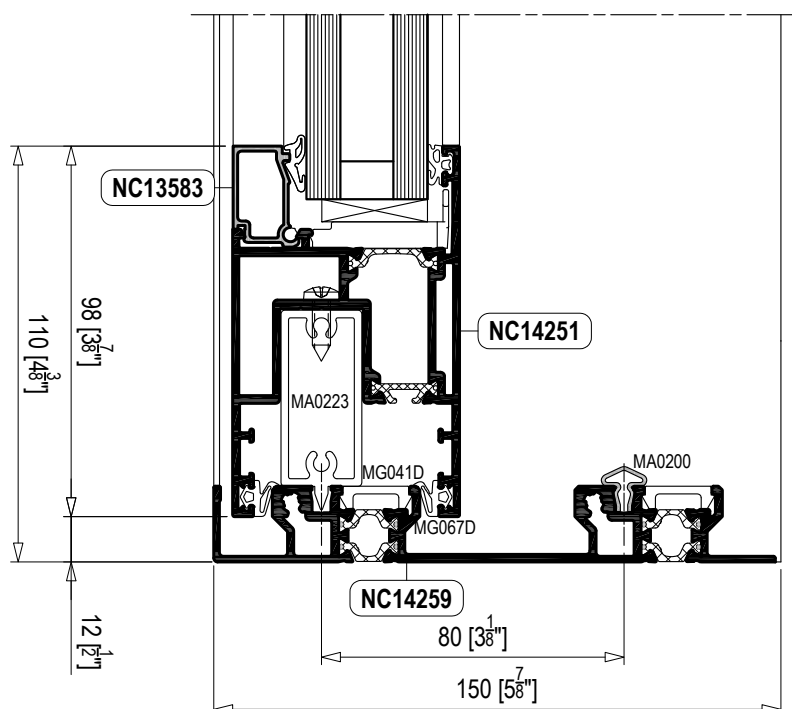
Section 9



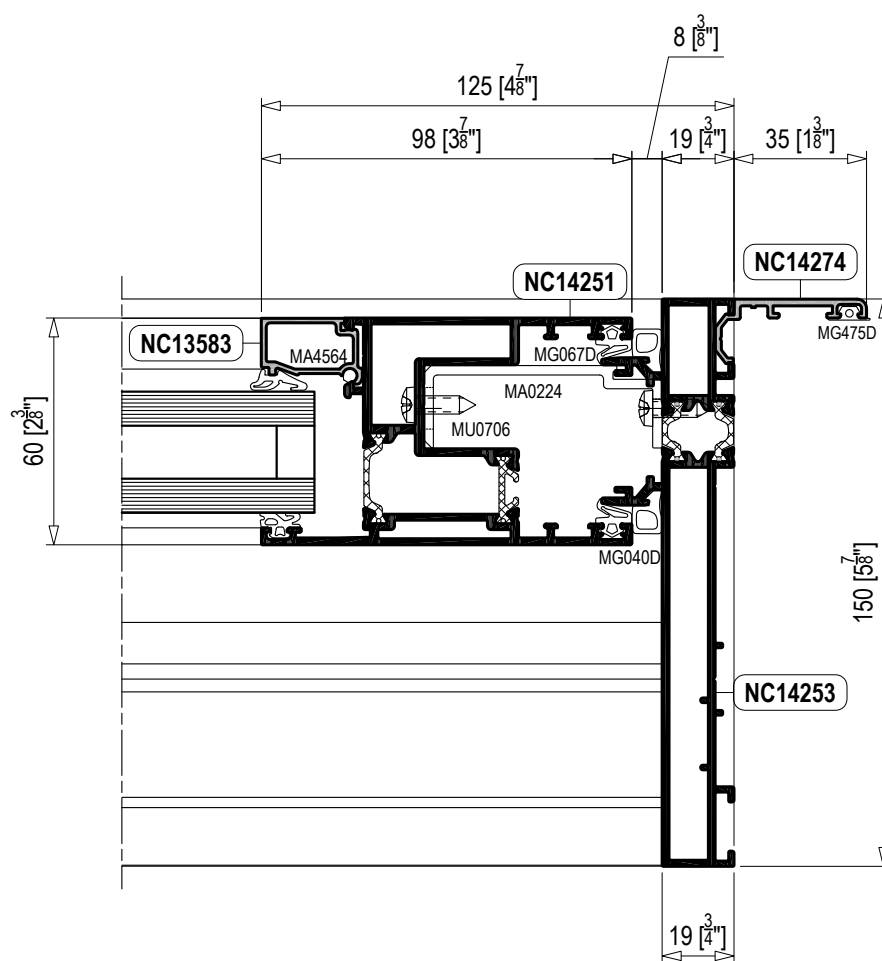
Section 8



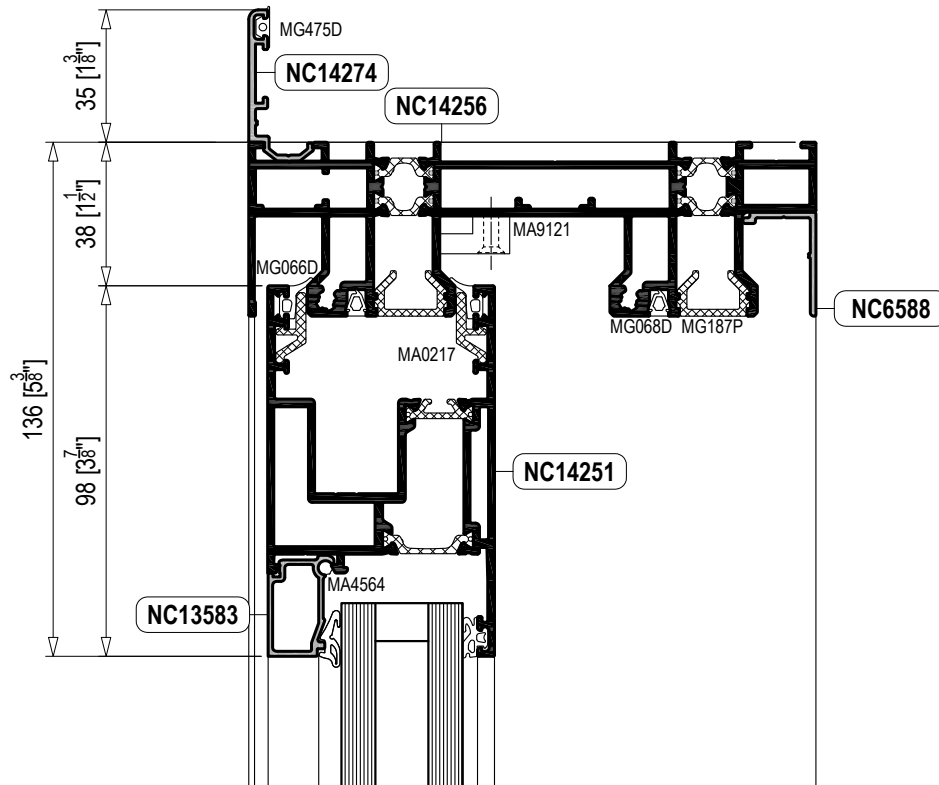
Section 9a



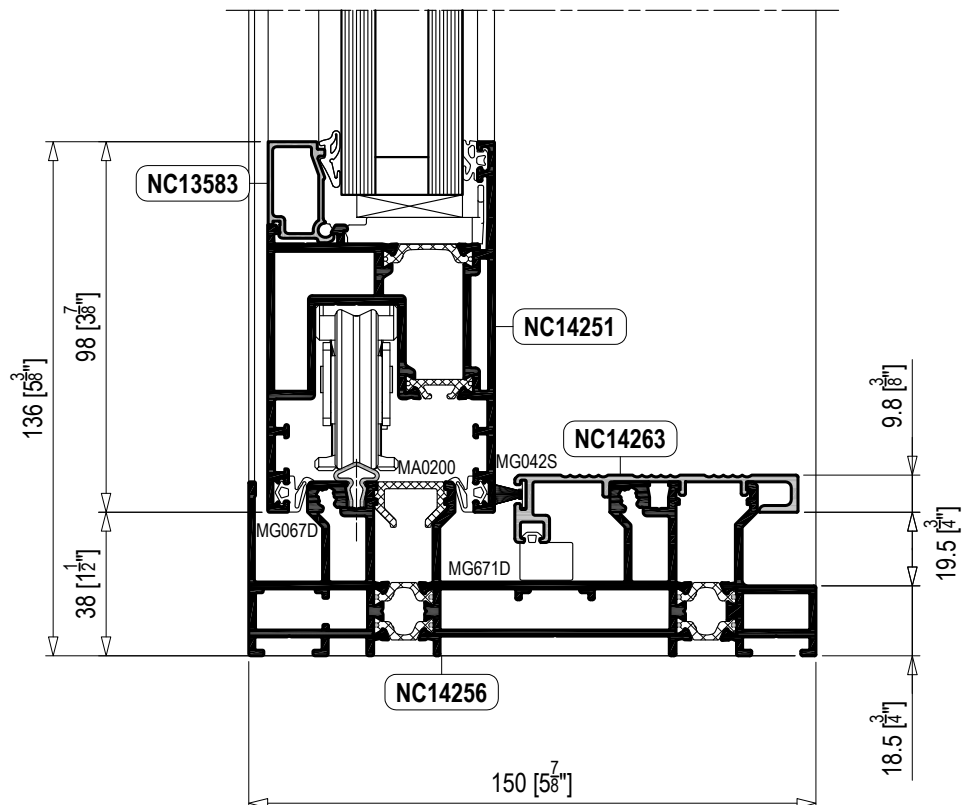
Section 10



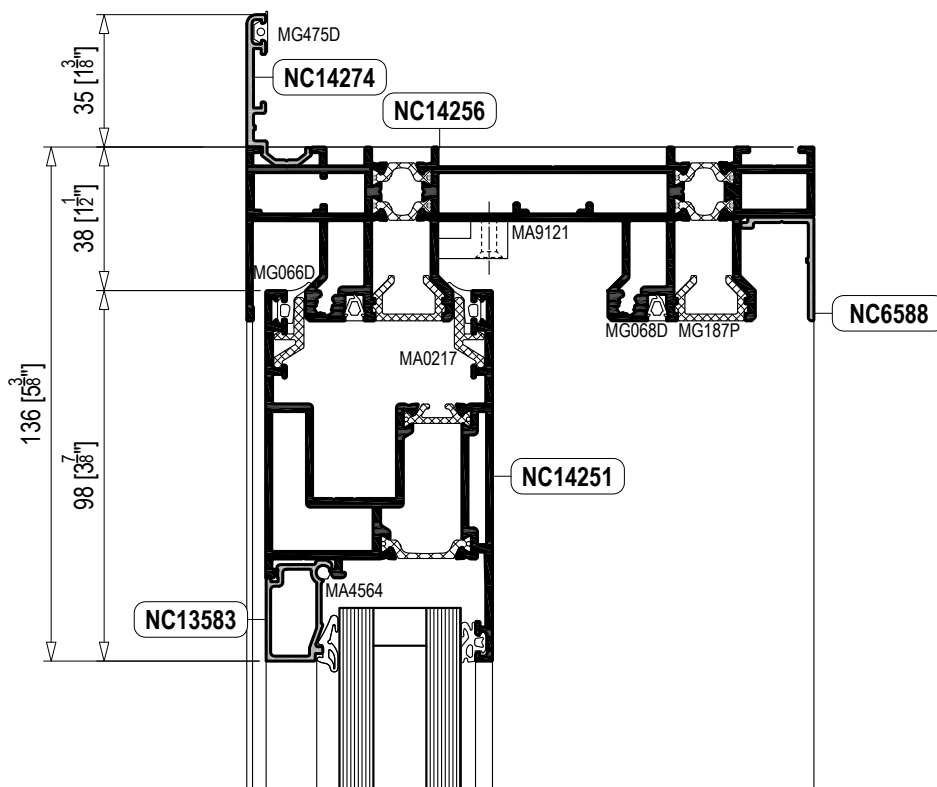
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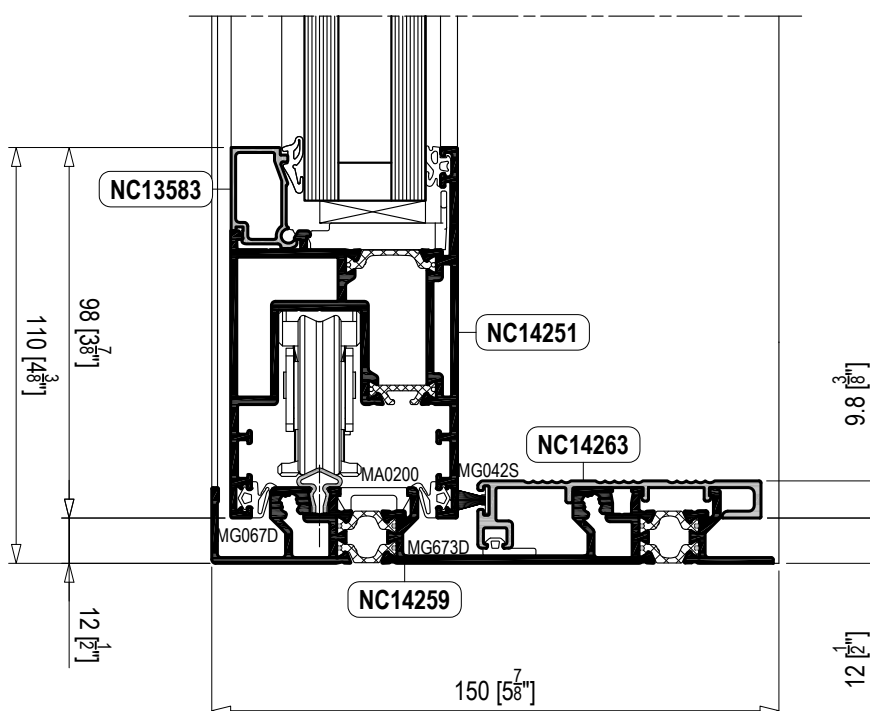
Section 12



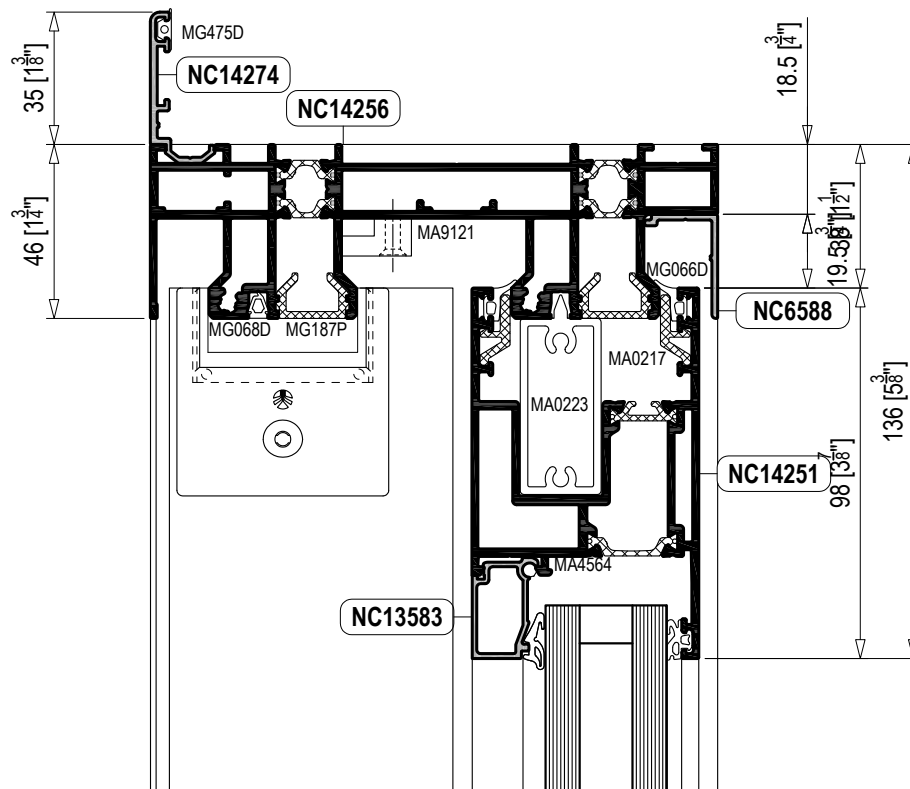
Section 11



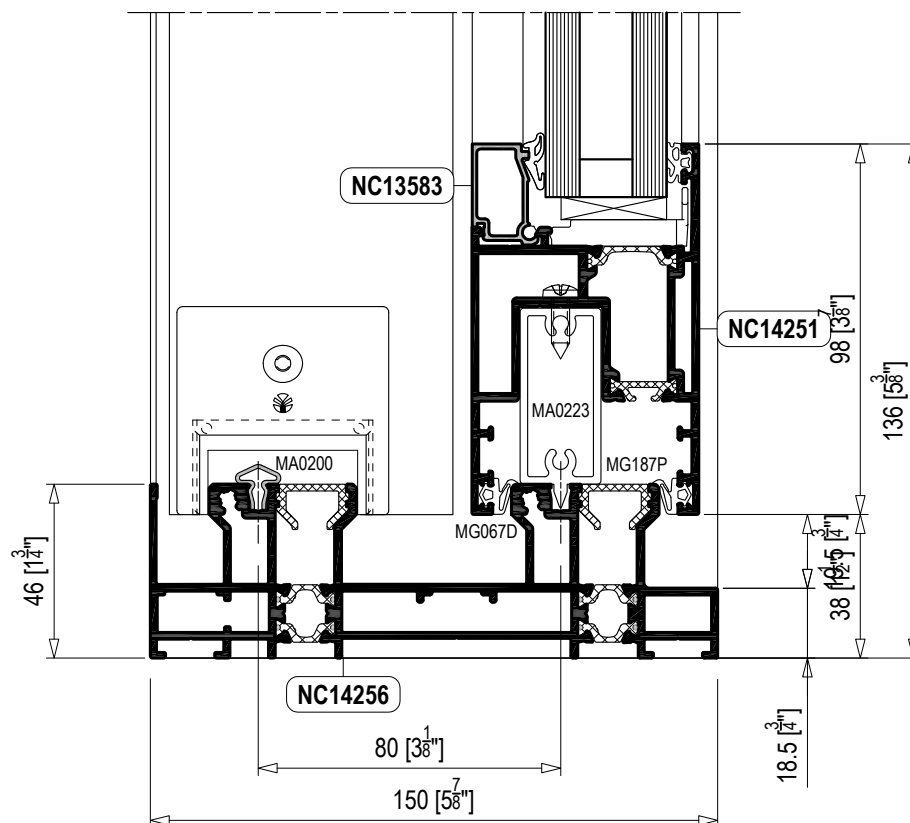
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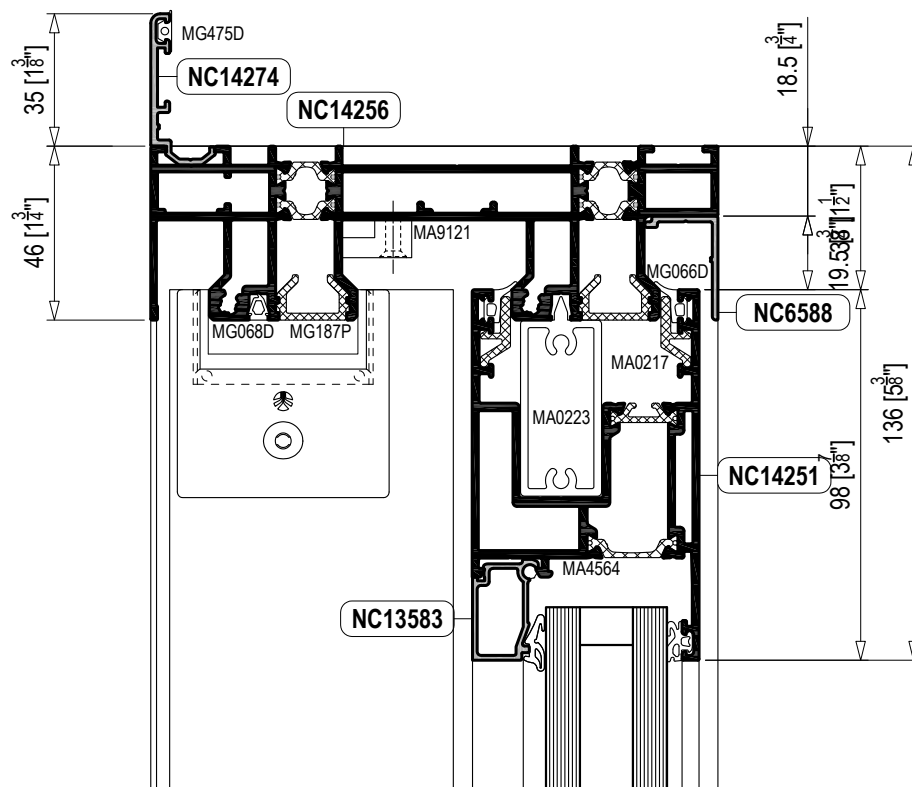
Section 13



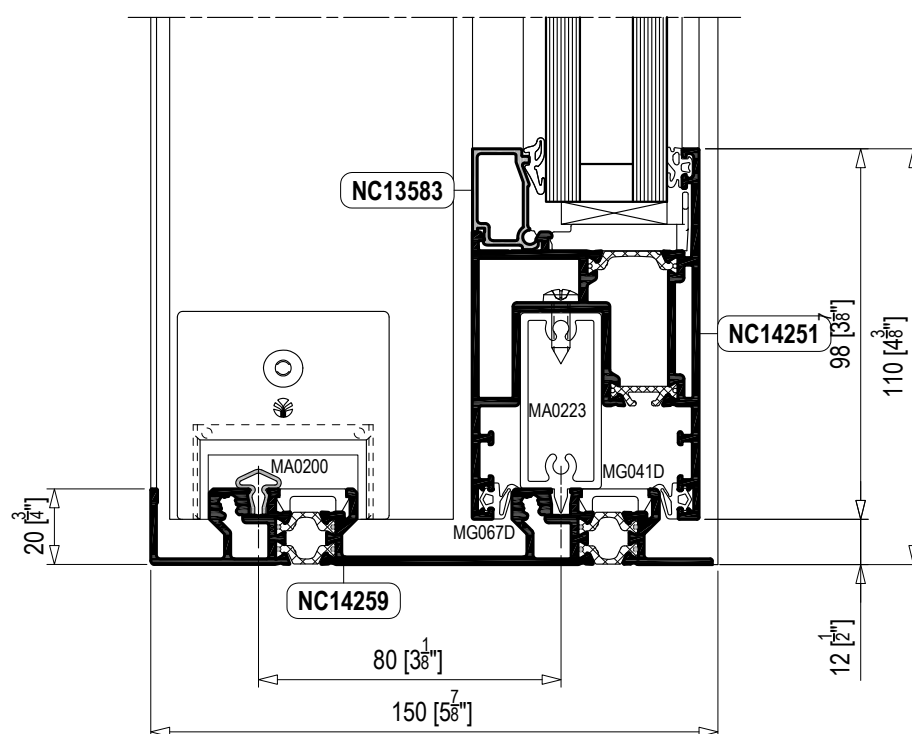
Section 14



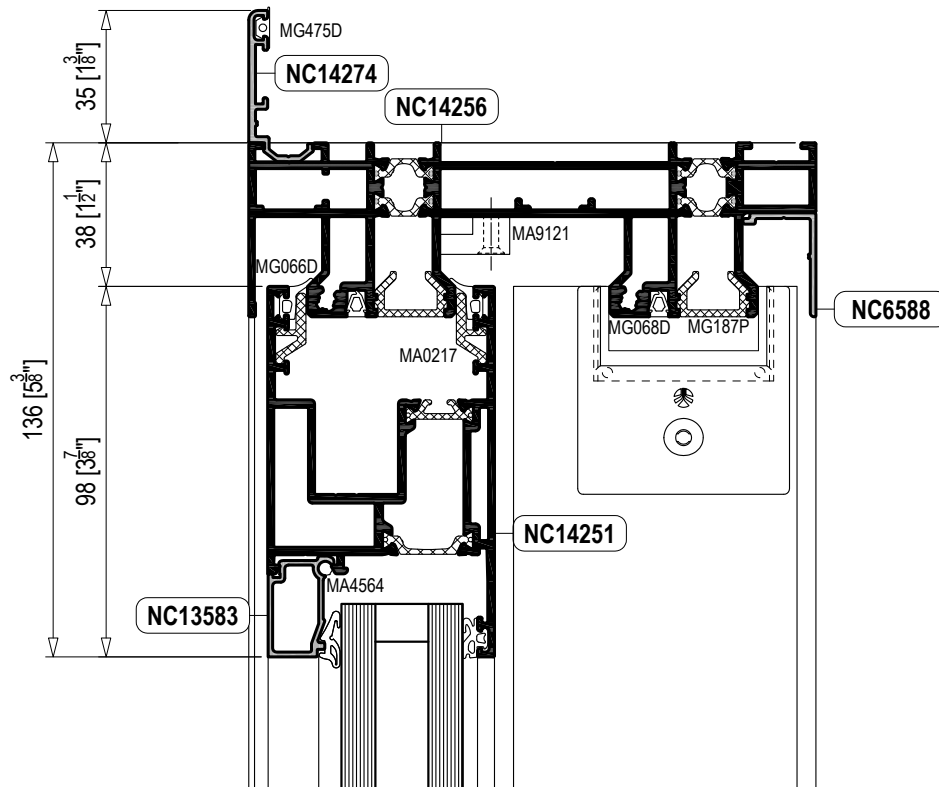
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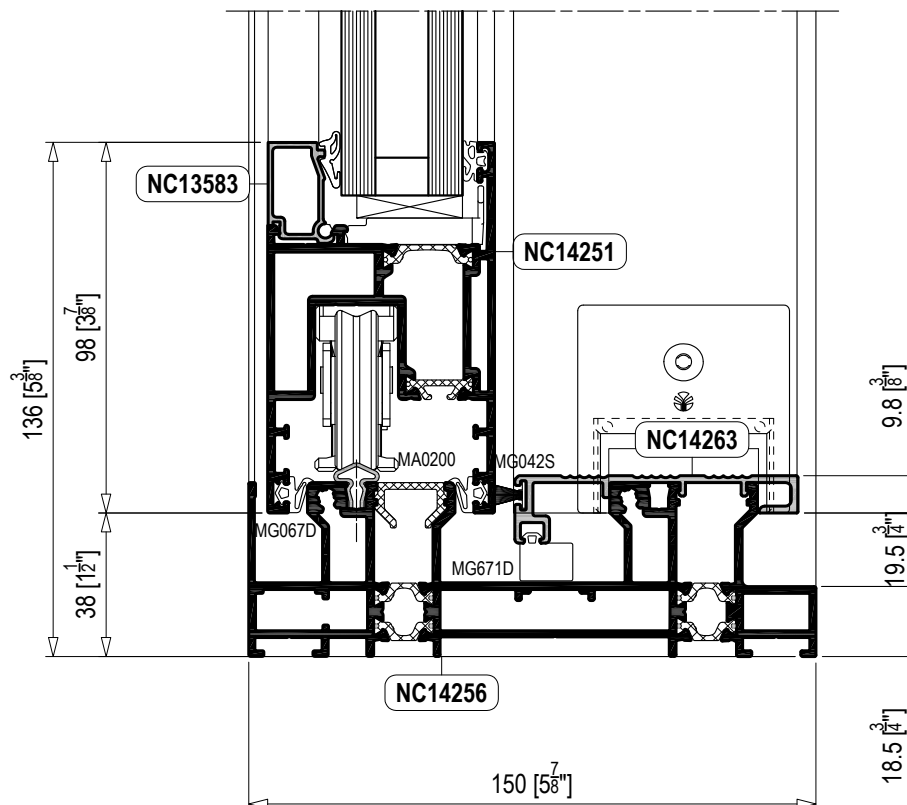
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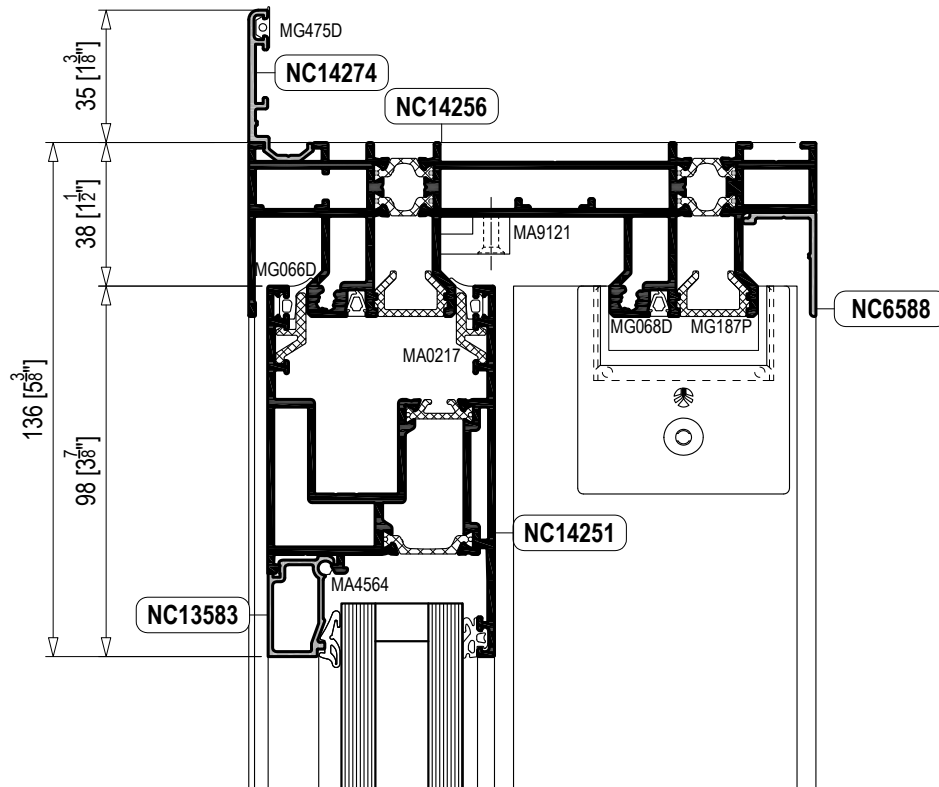
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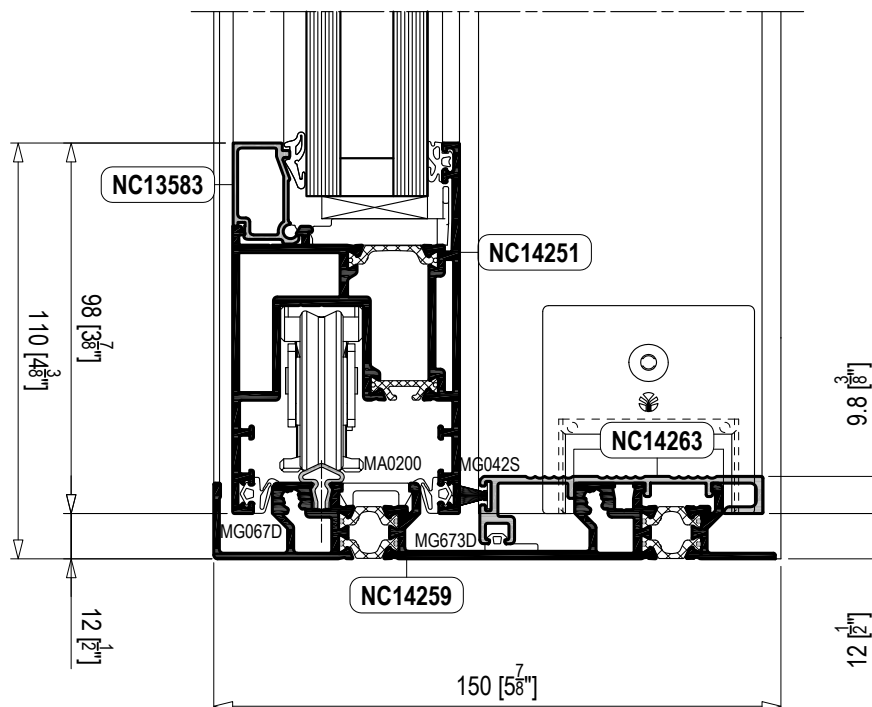
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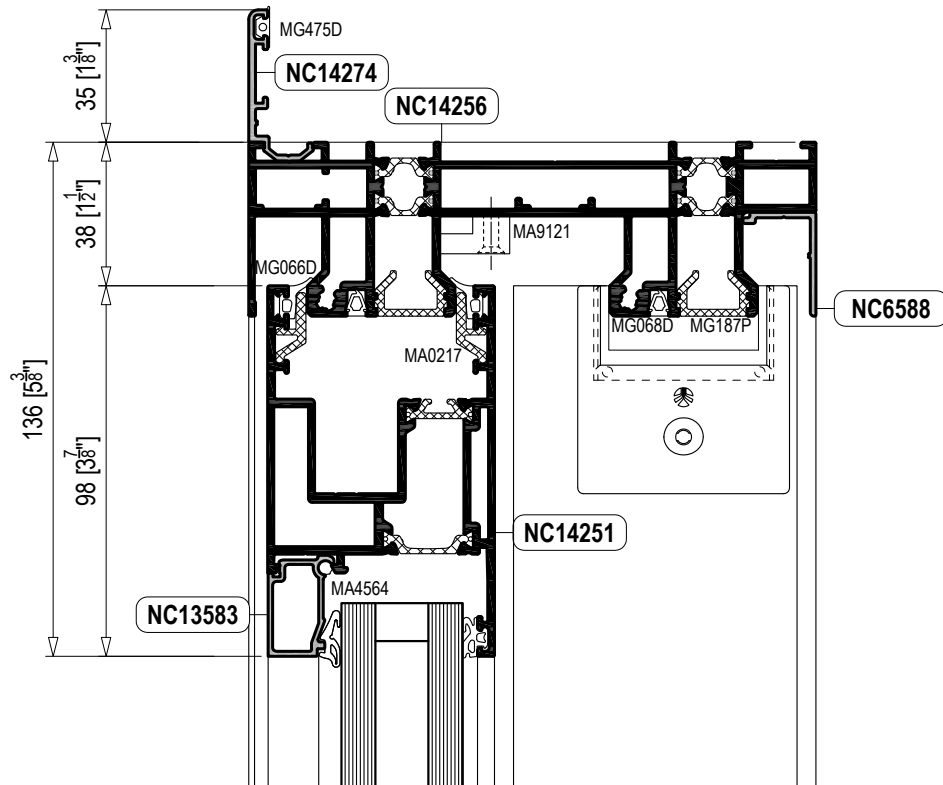
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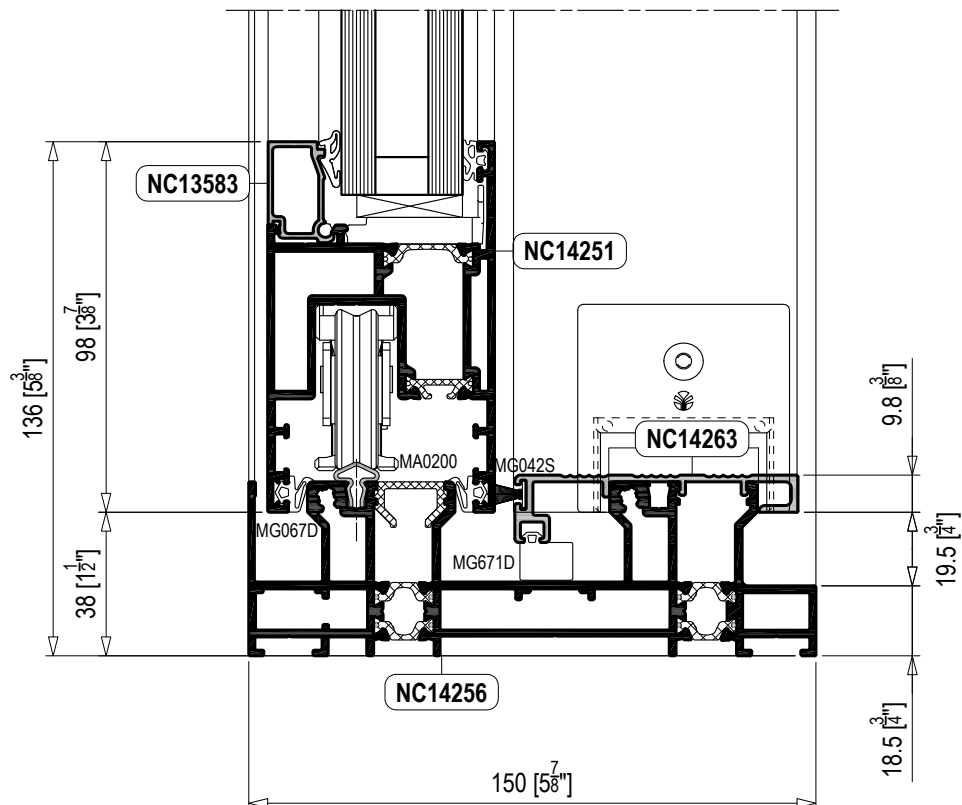
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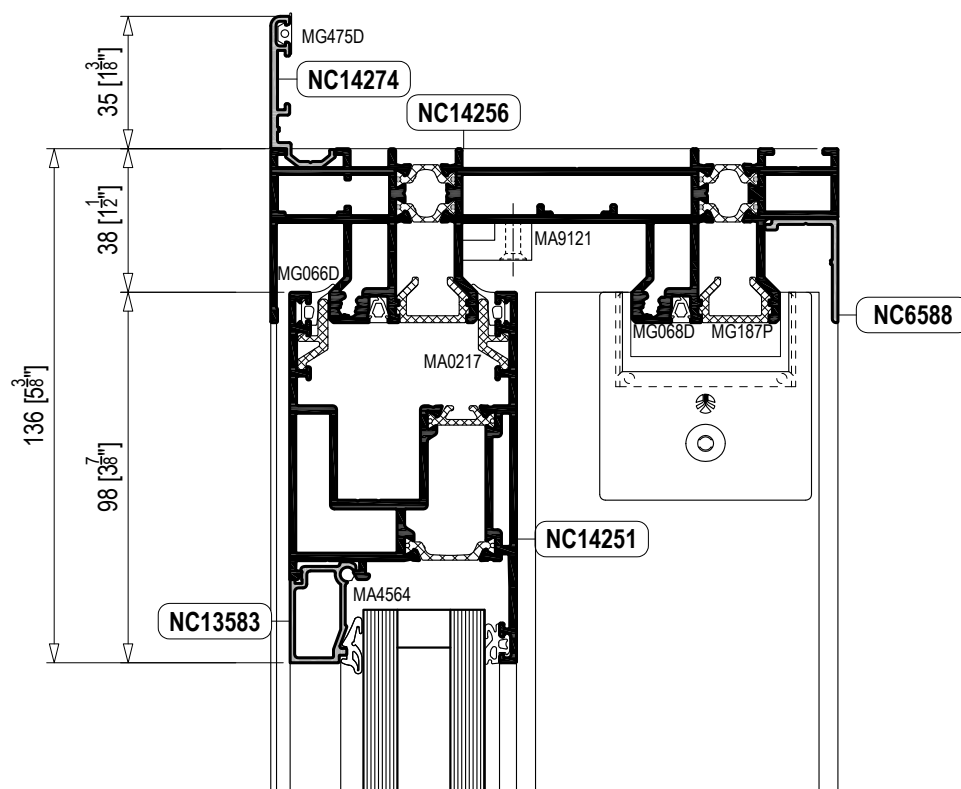
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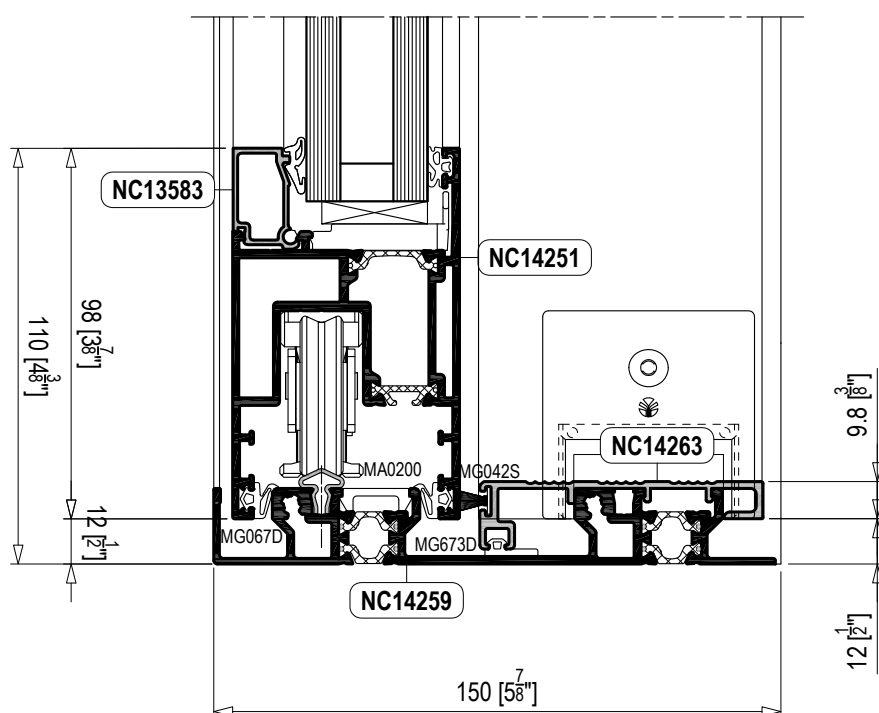
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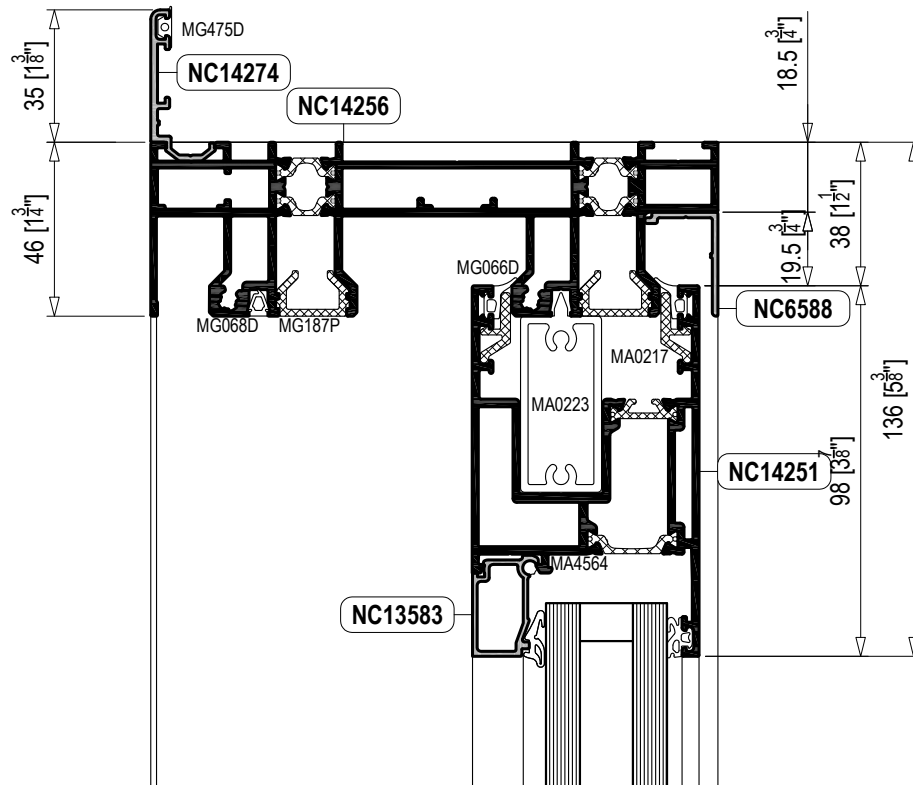
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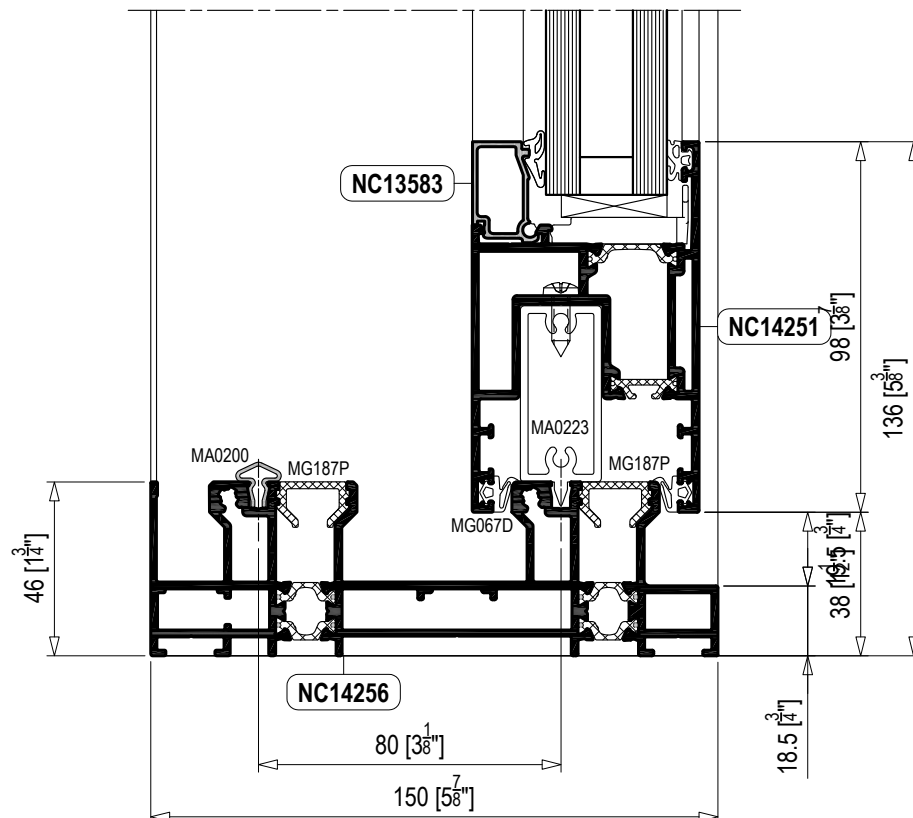
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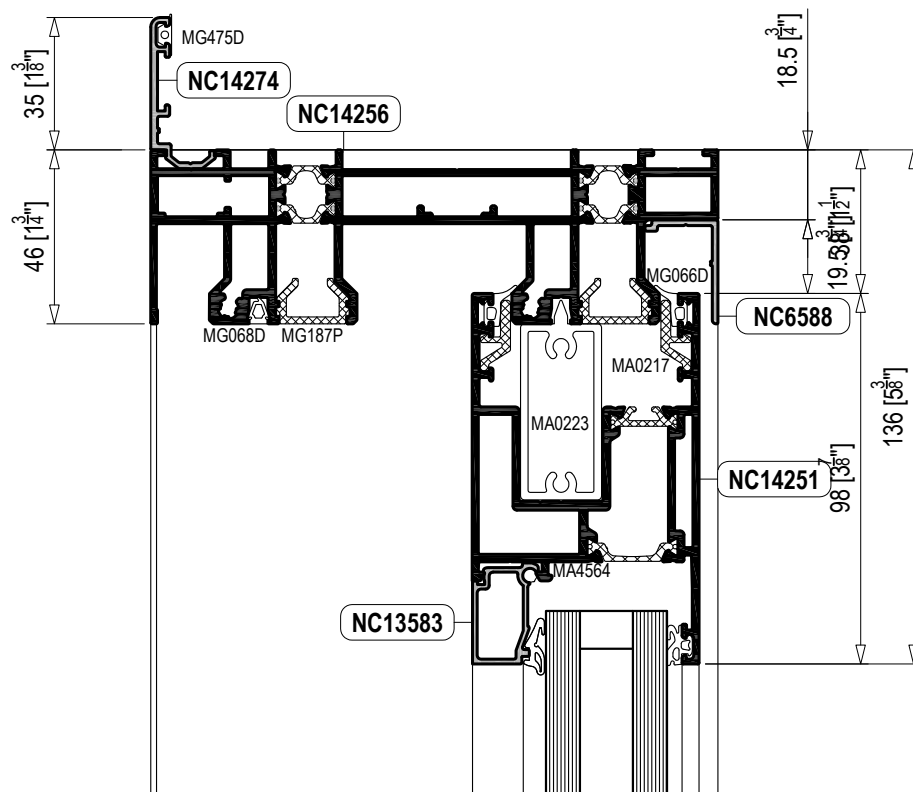
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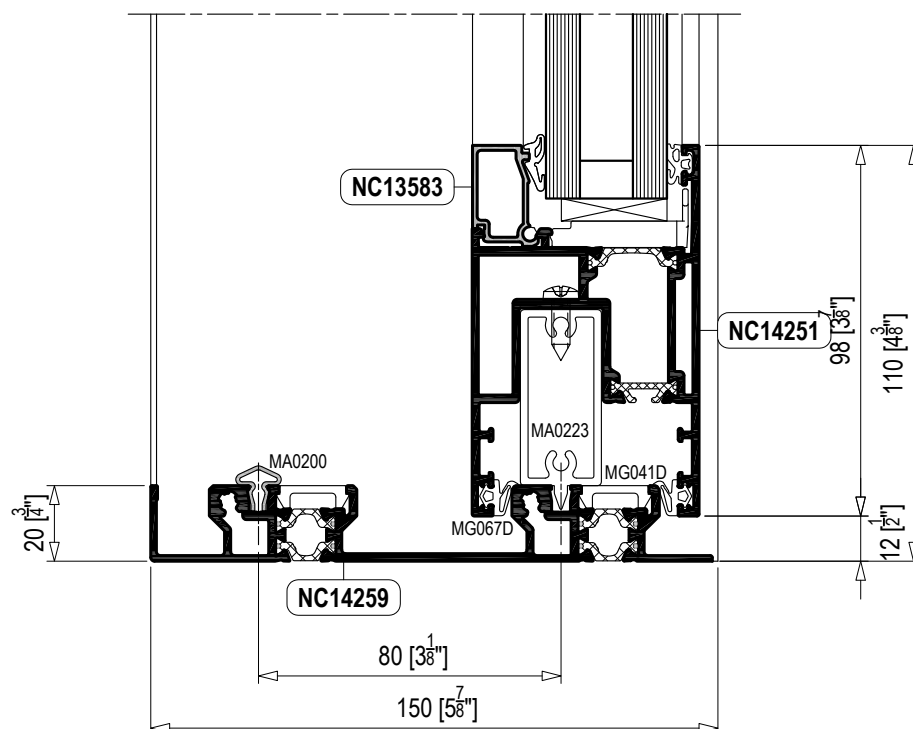
Section 20



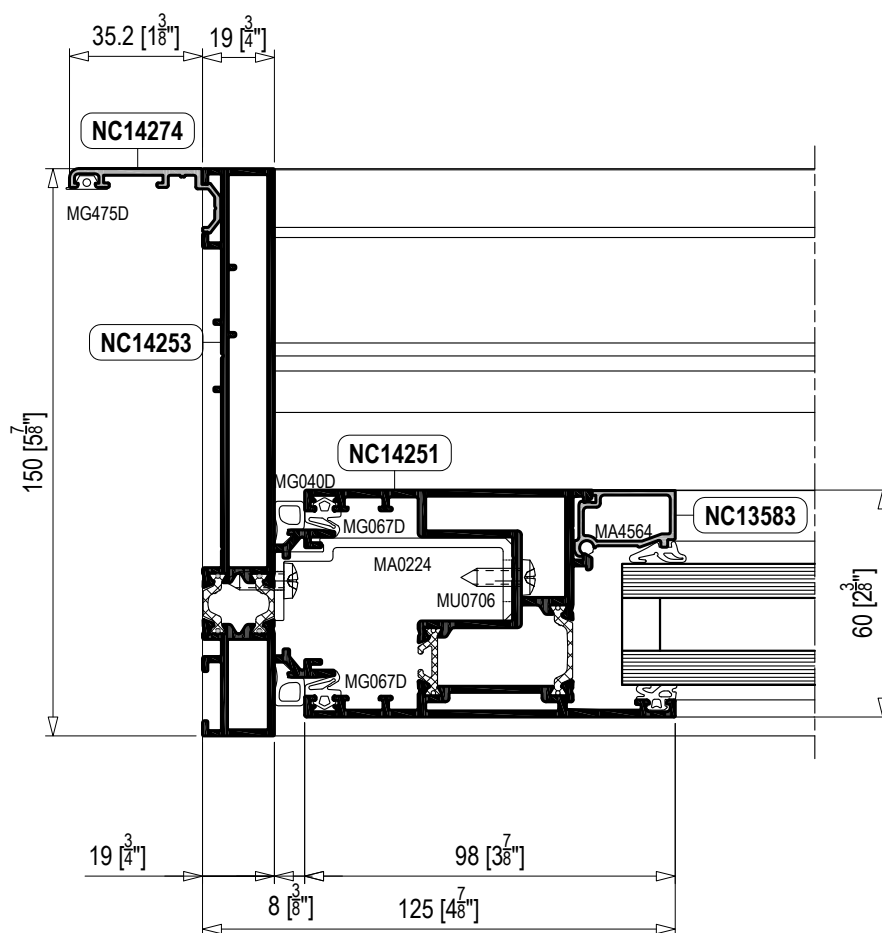
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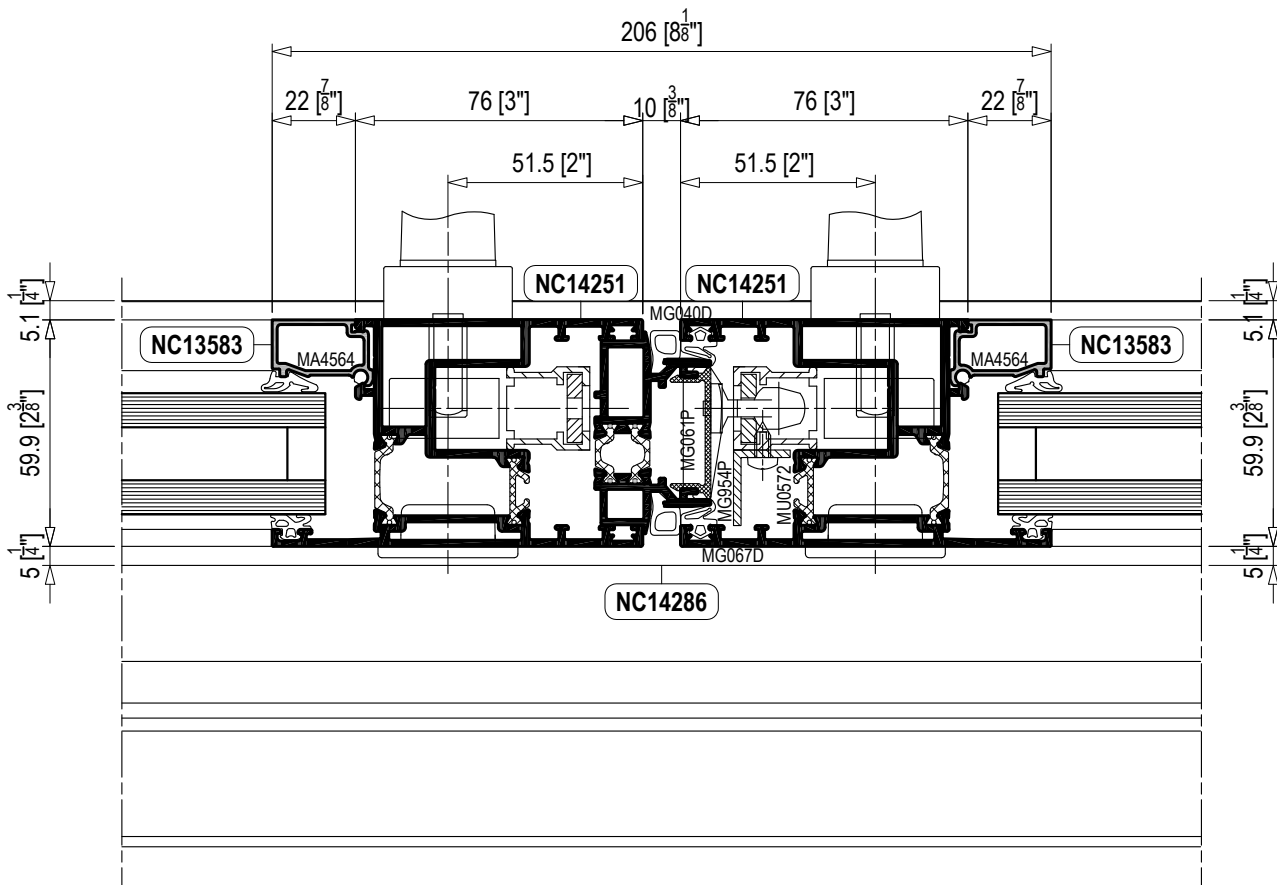
Section 20a



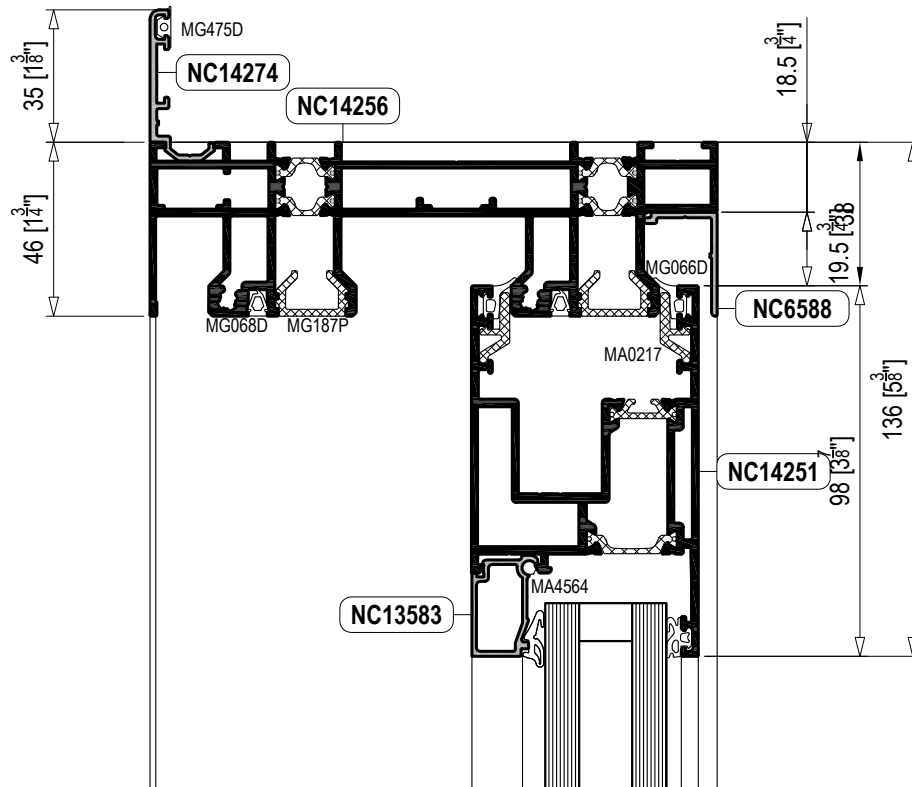
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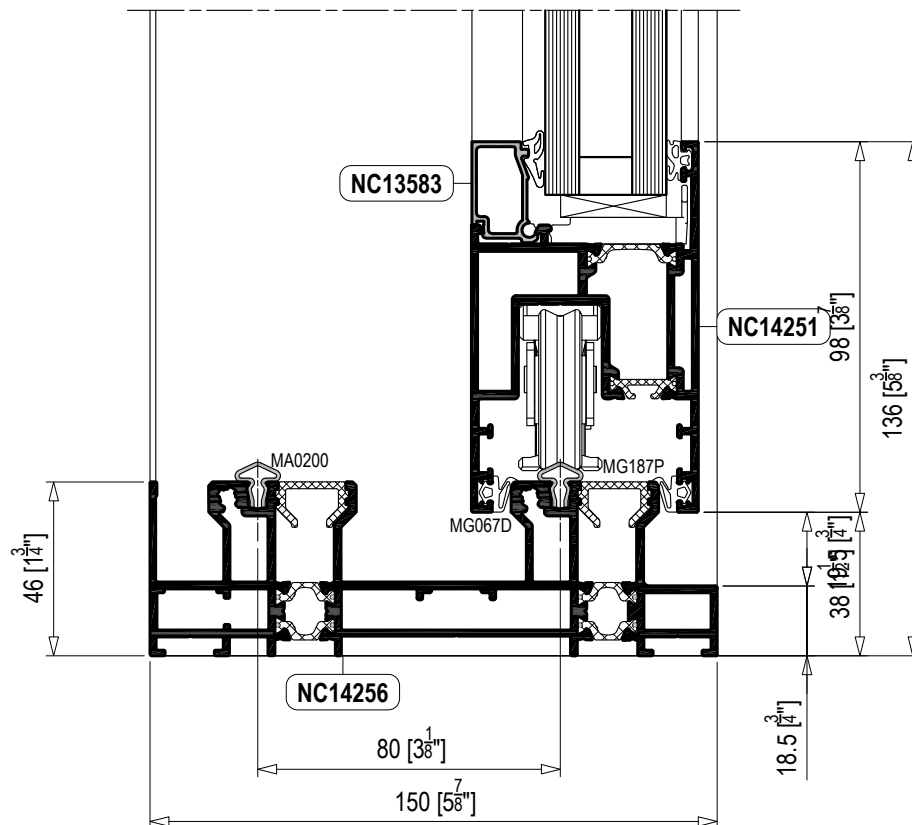
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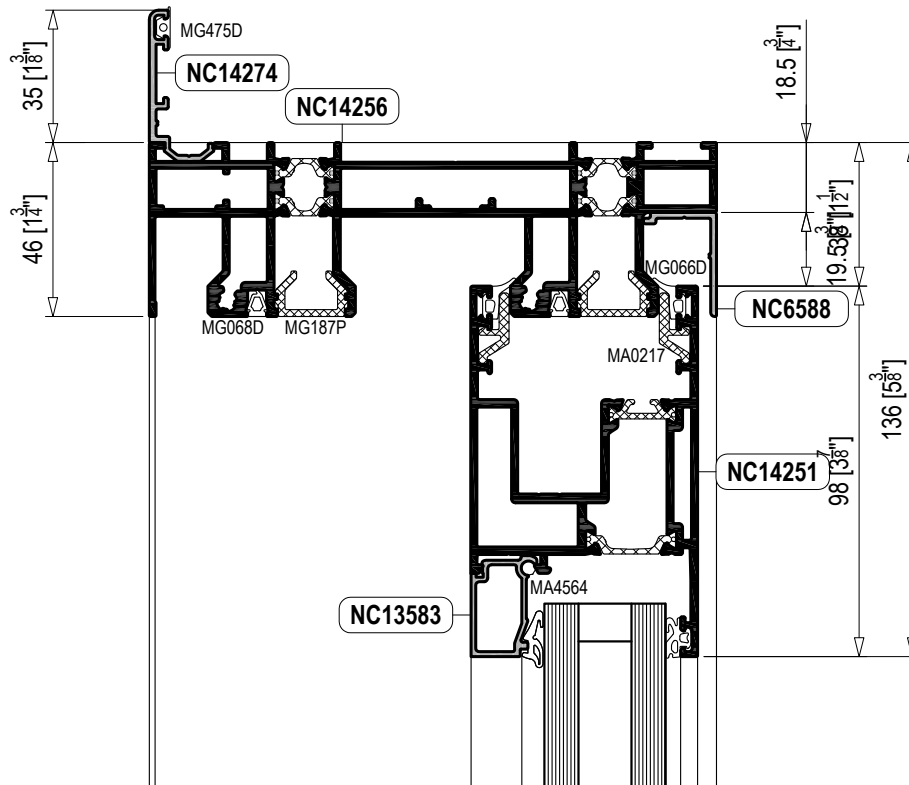
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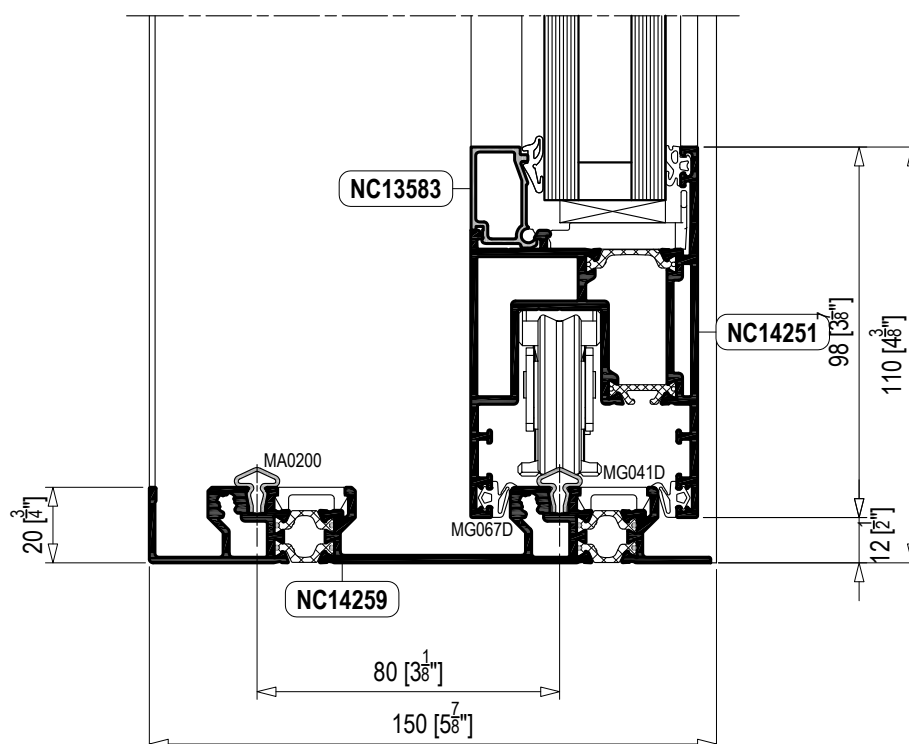
Section 24



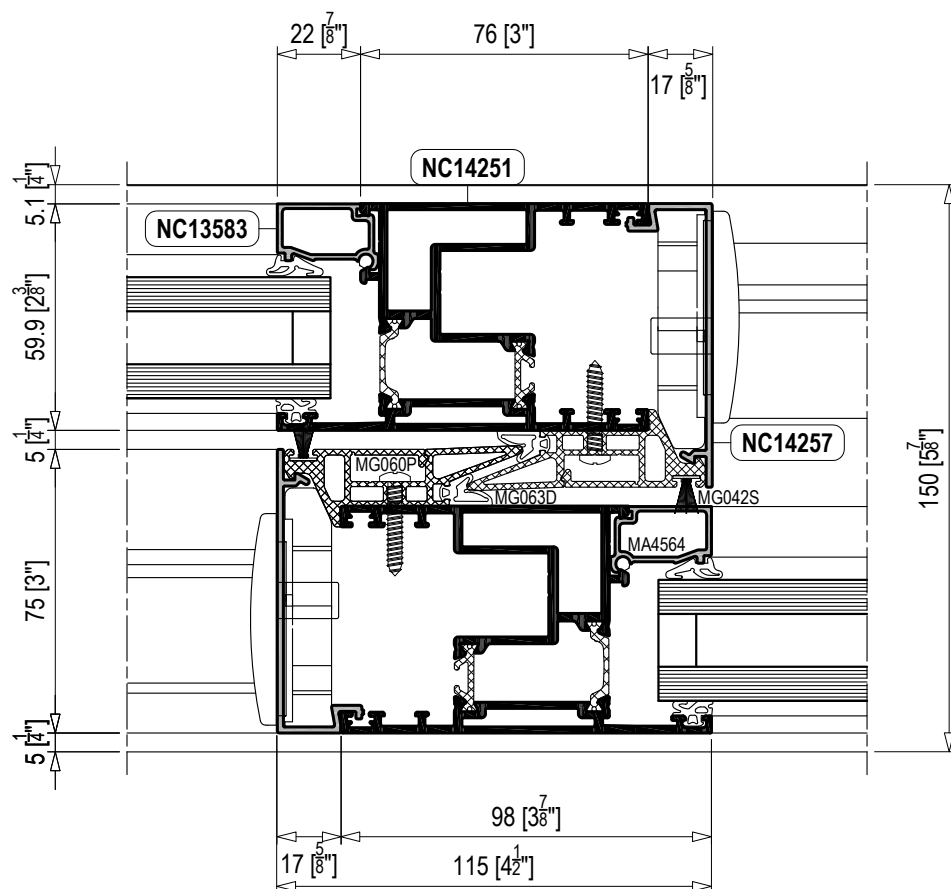
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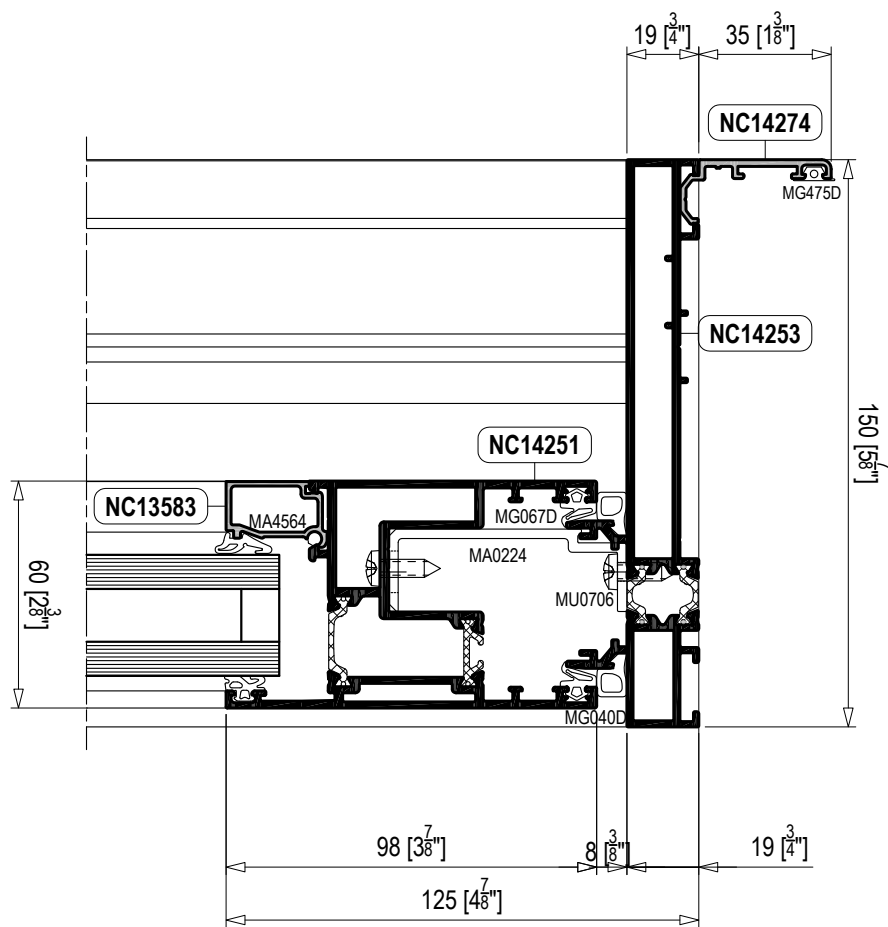
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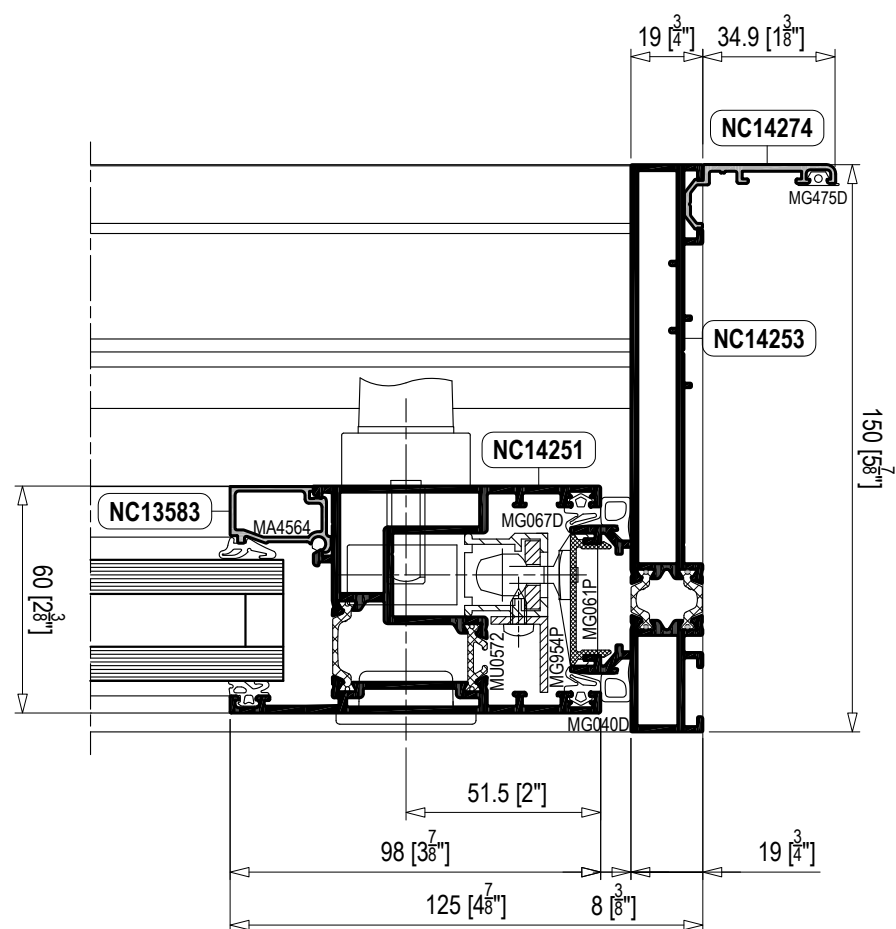
Section 25



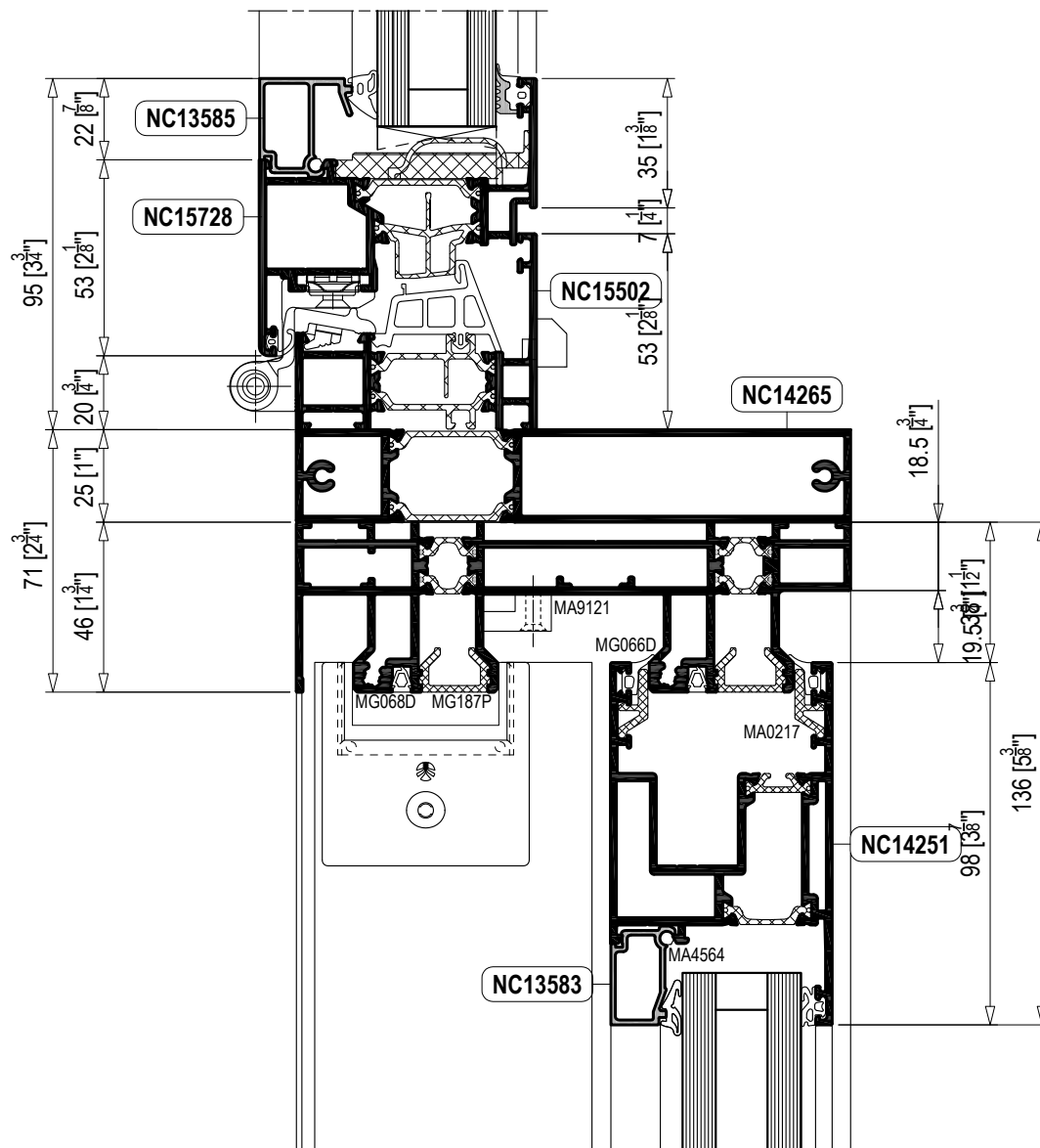
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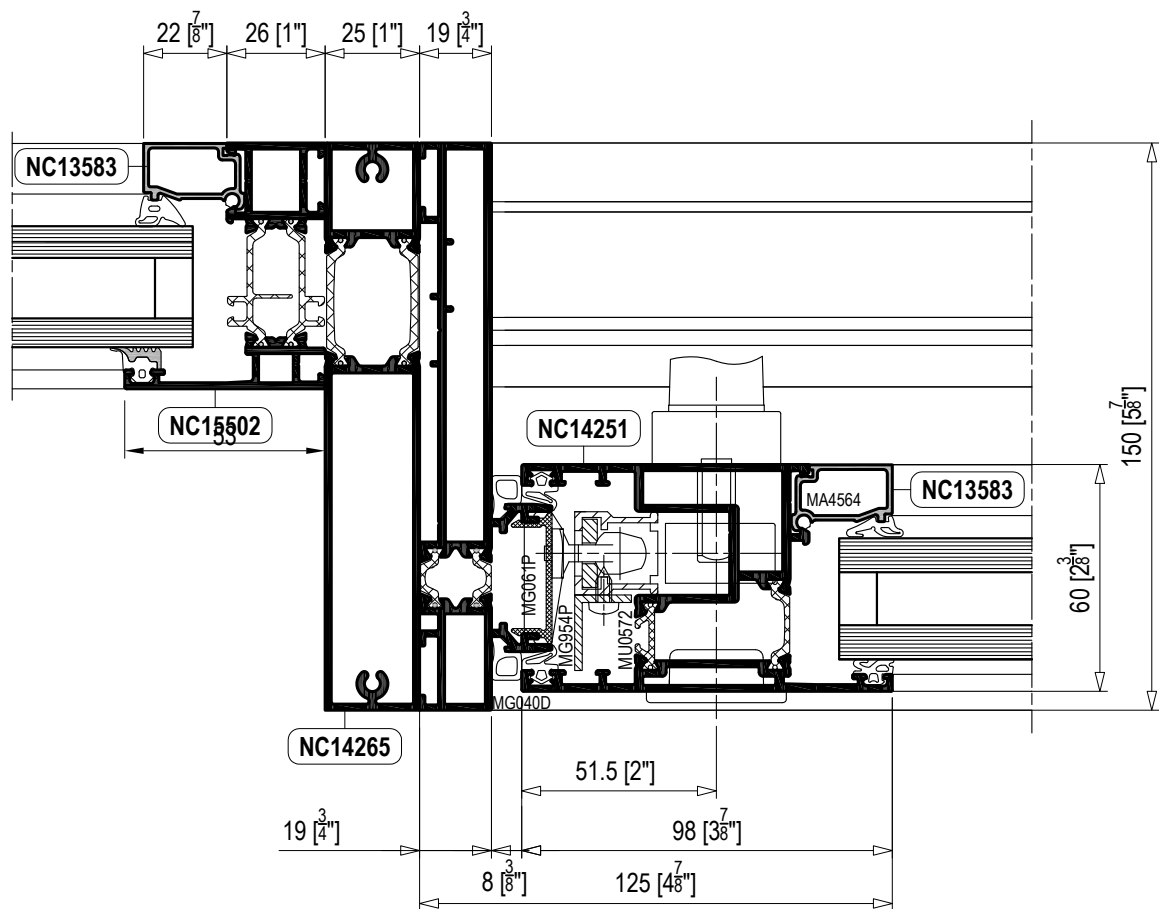
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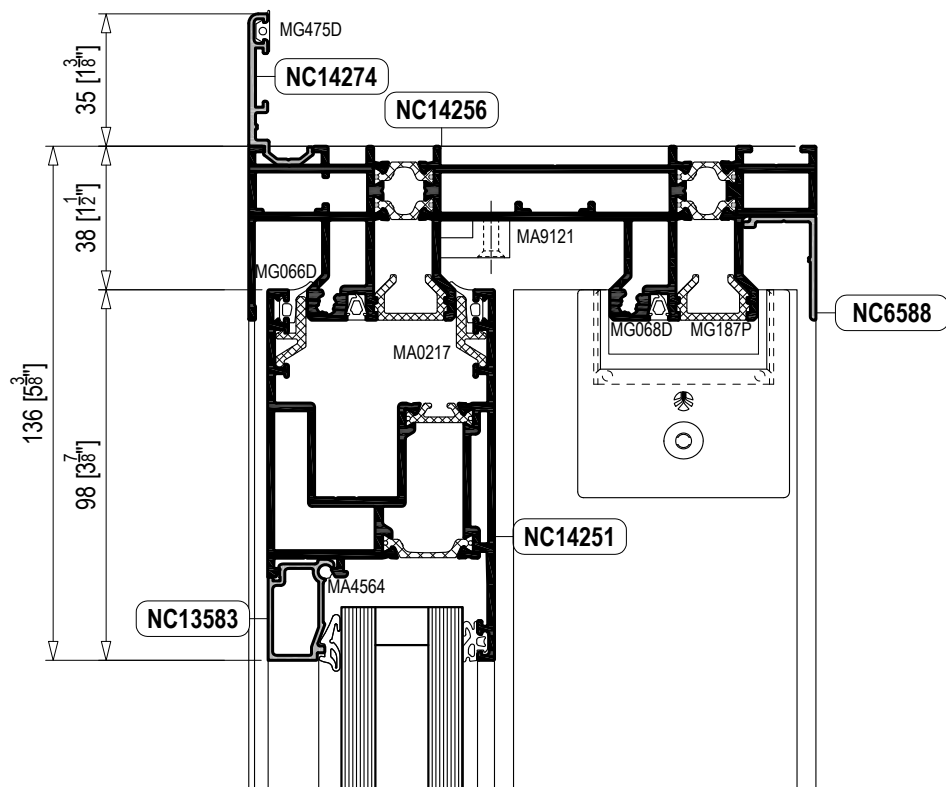
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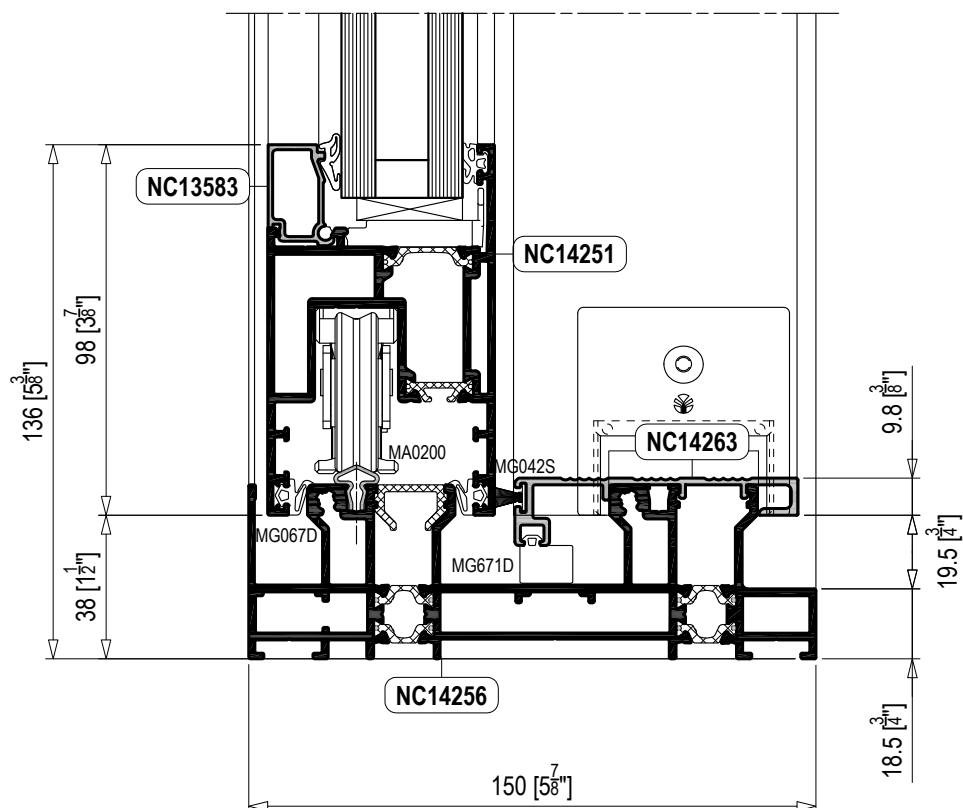
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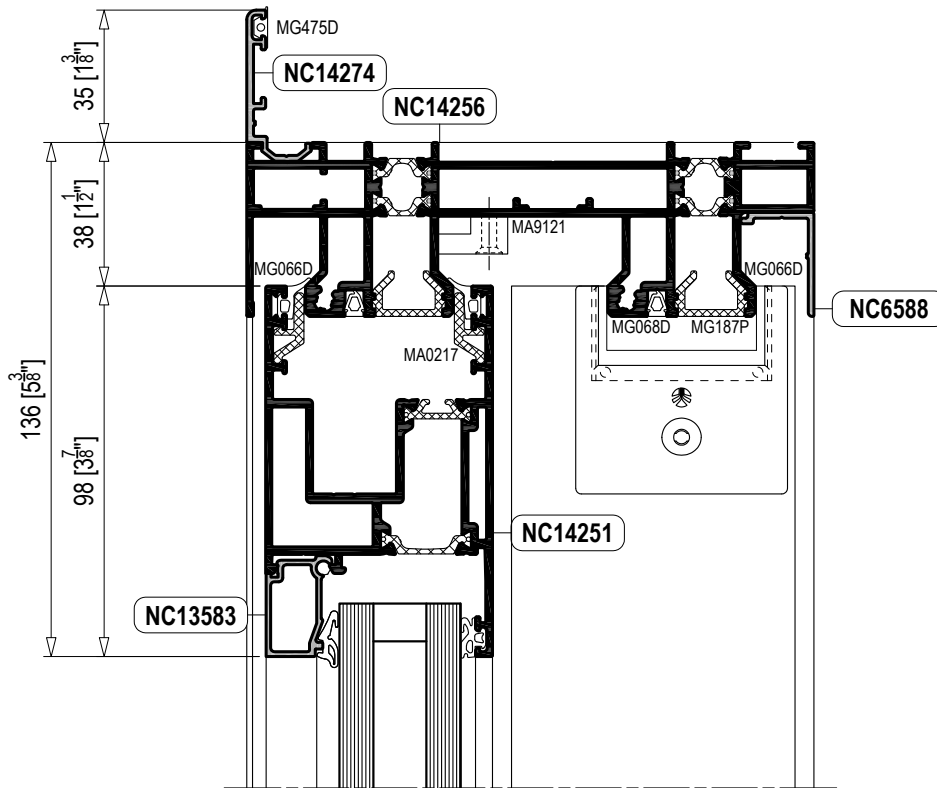
Section 30



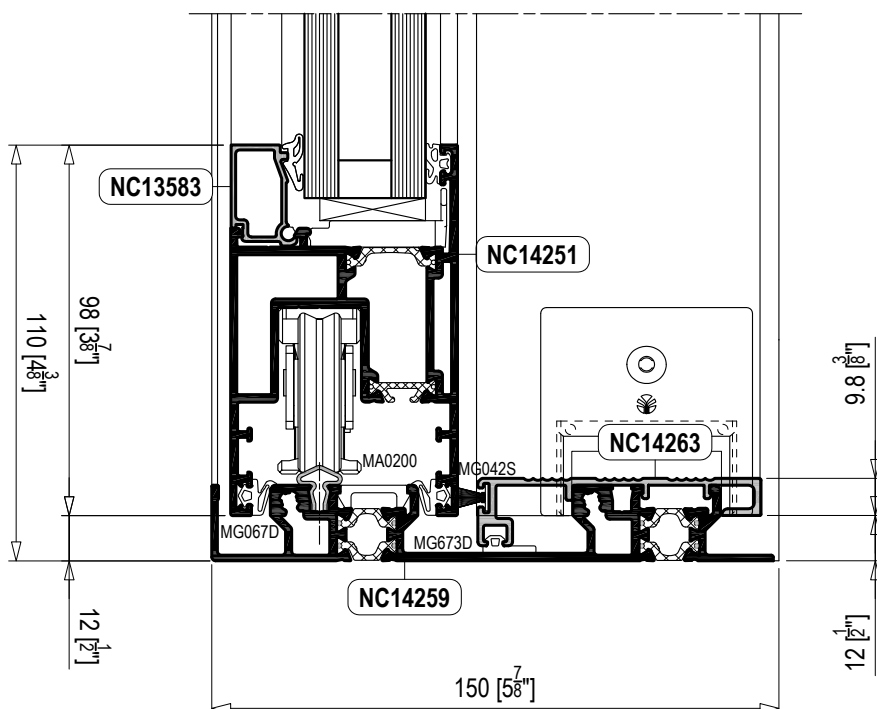
Section 31



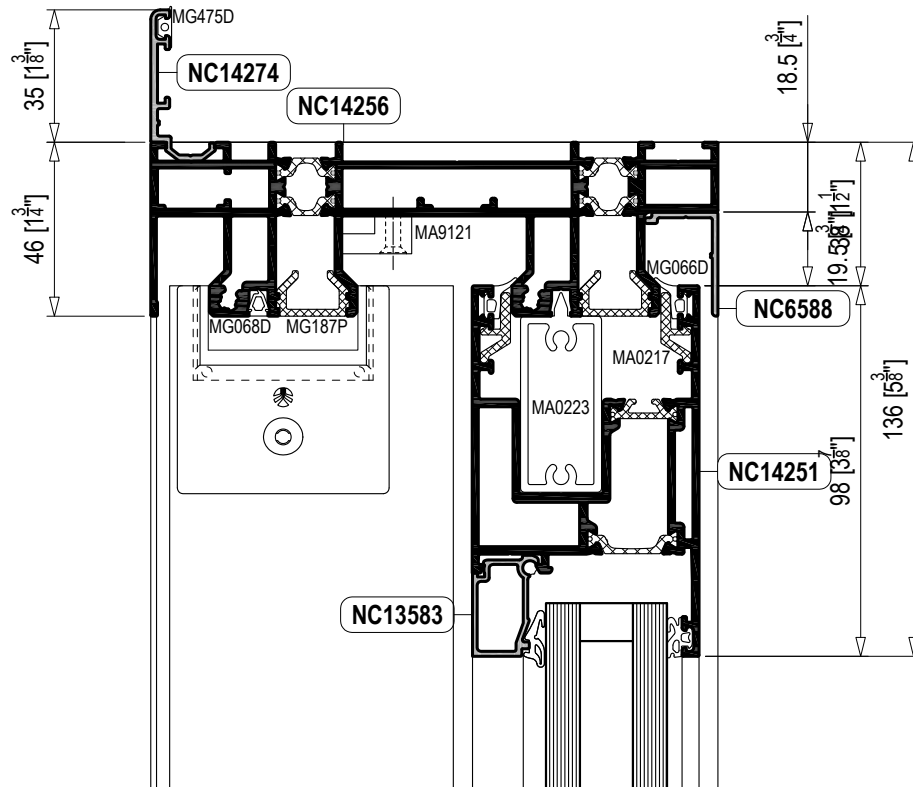
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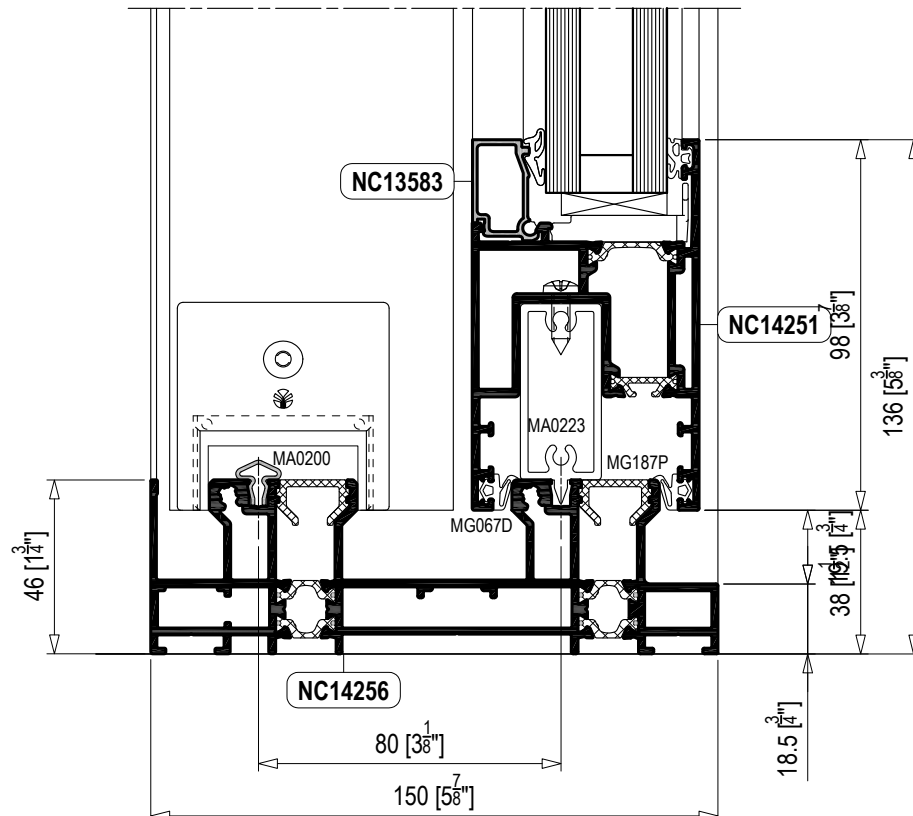
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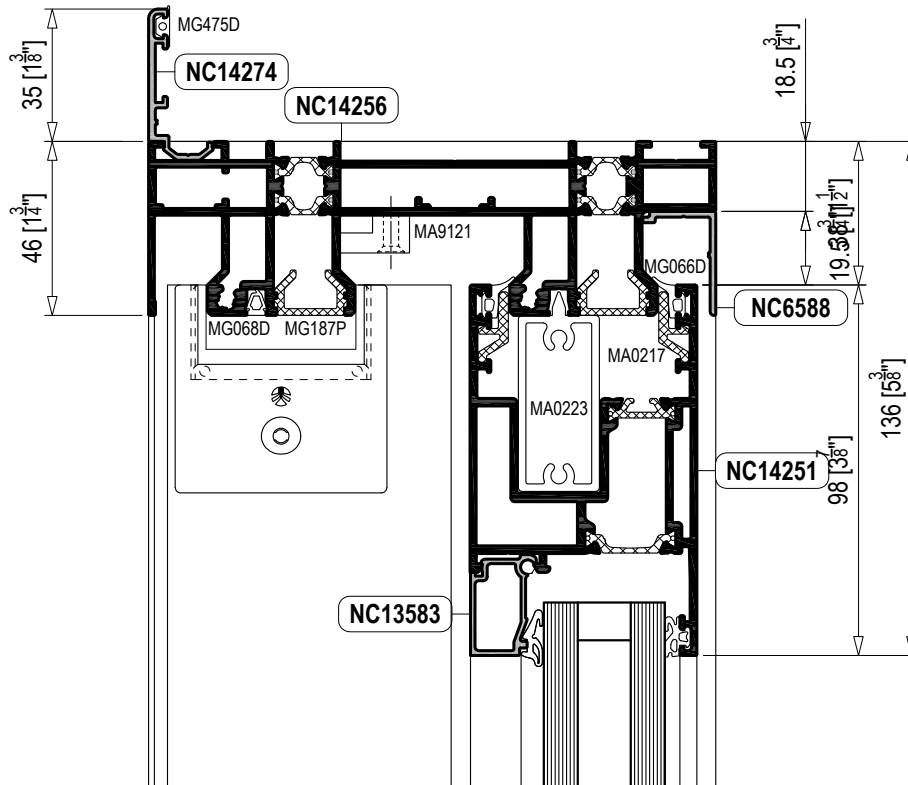
Section 32



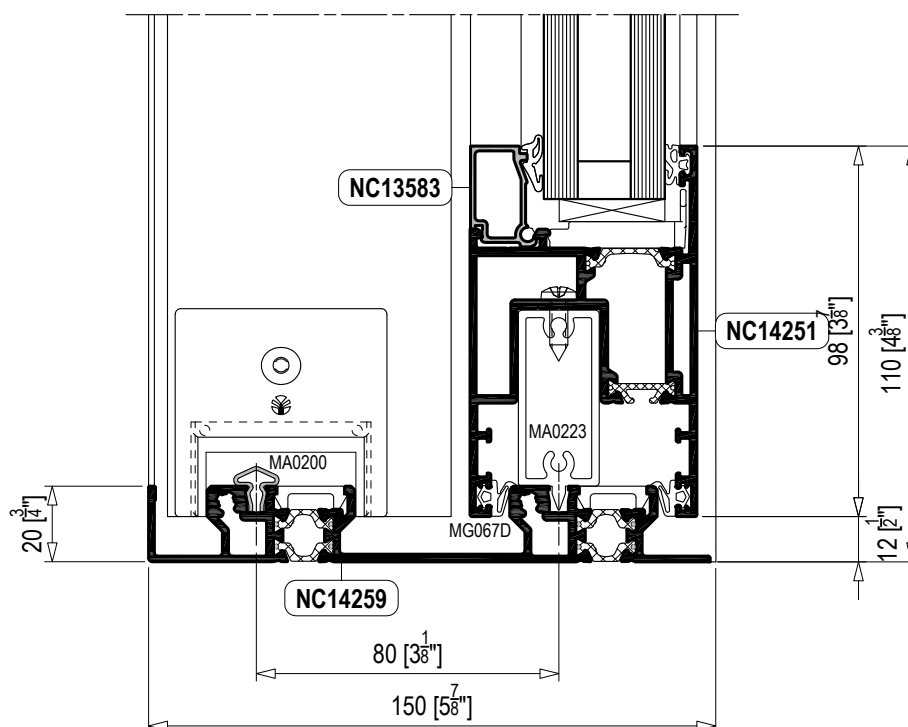
Section 33



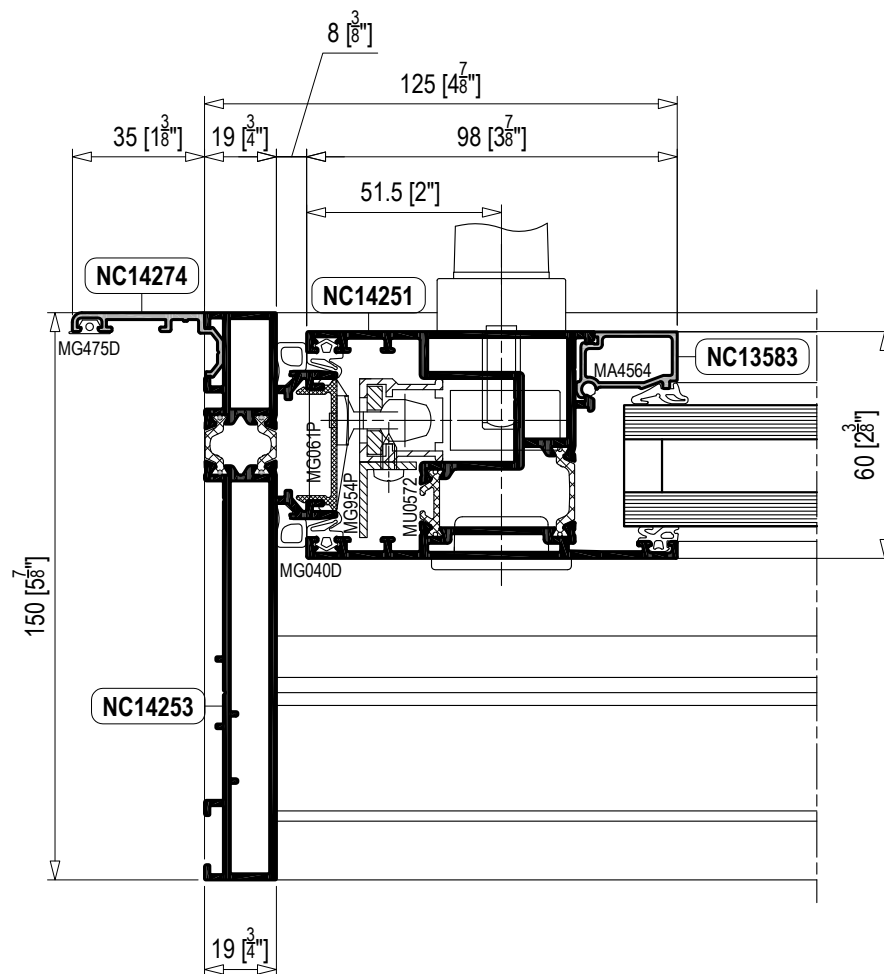
Section 32



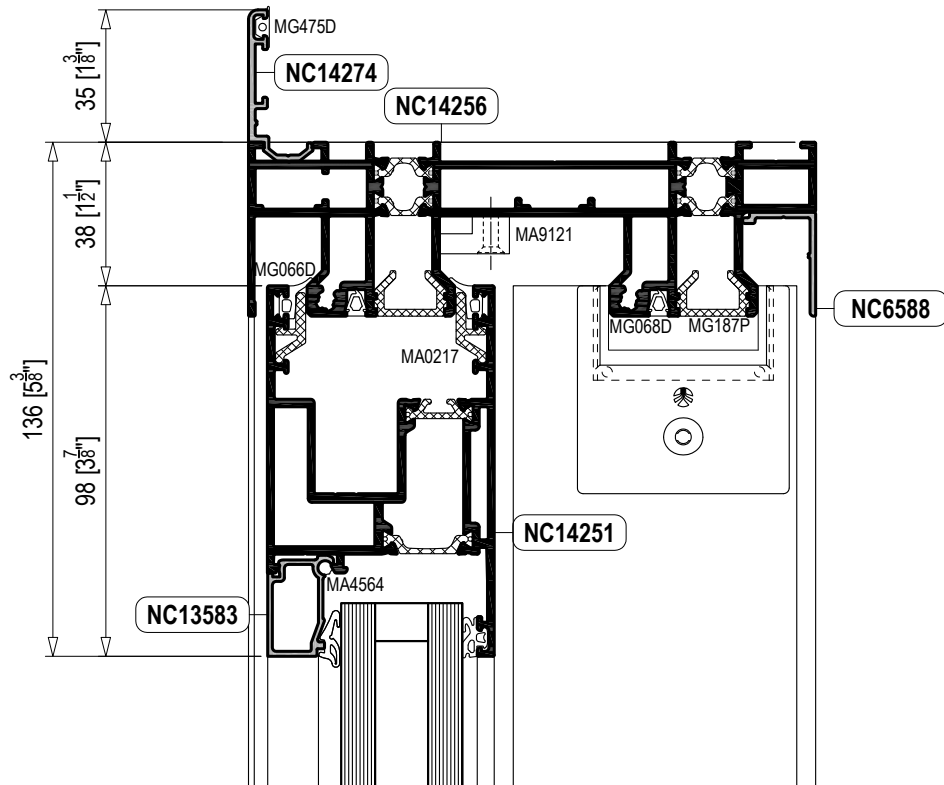
Section 33a



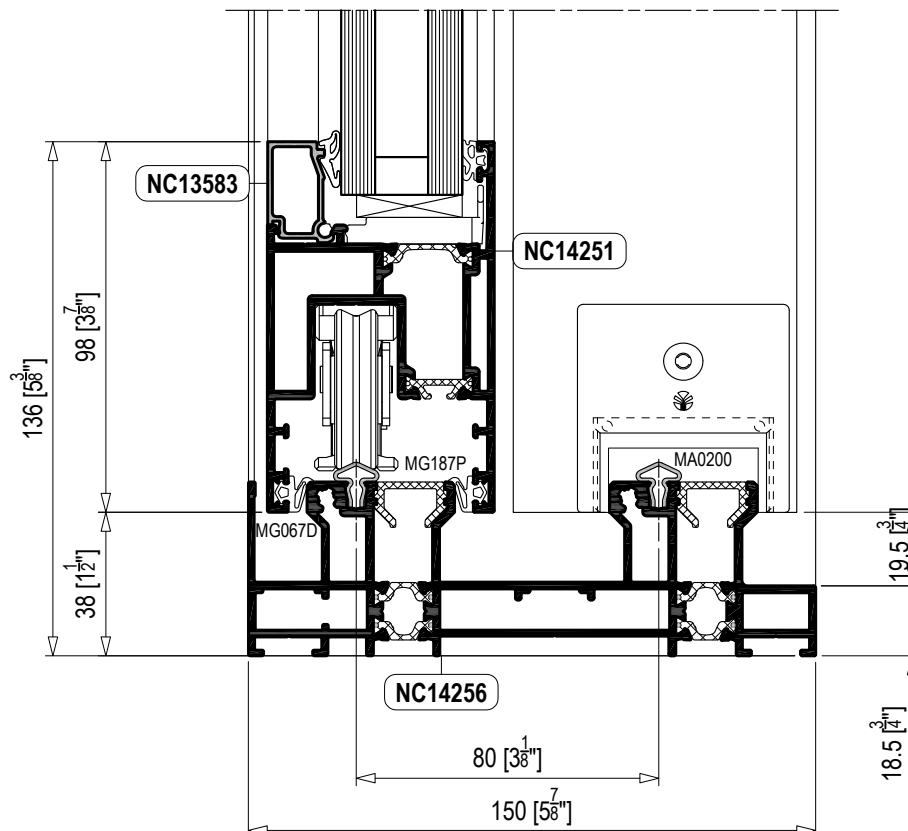
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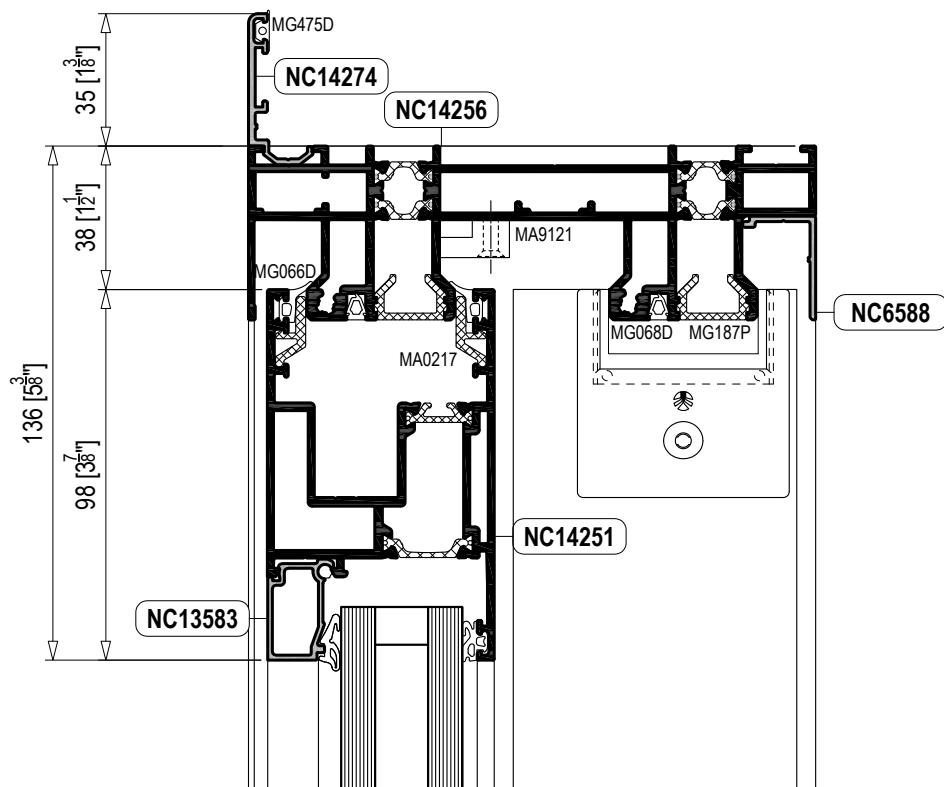
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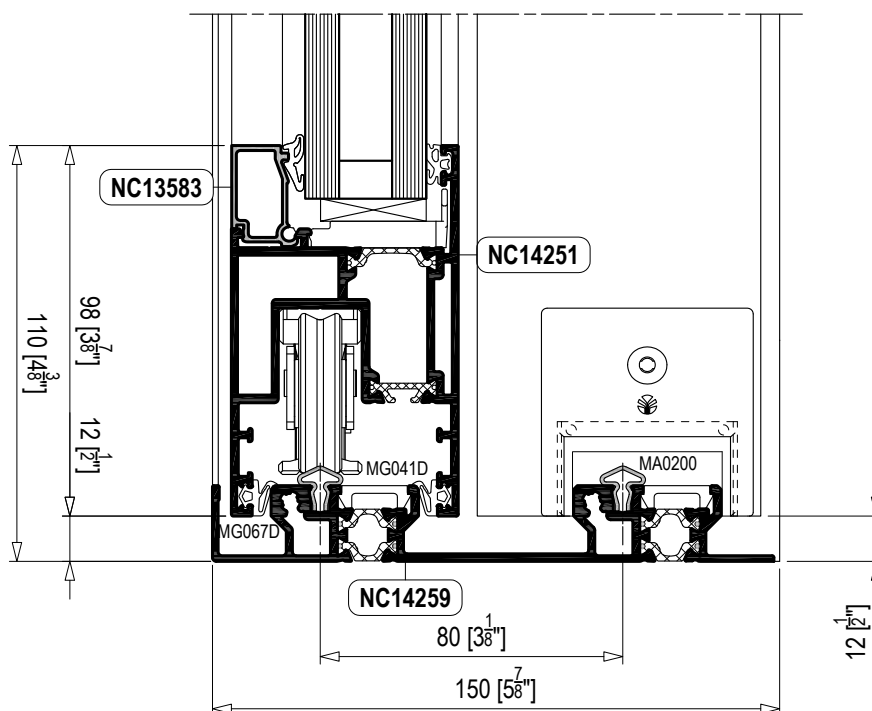
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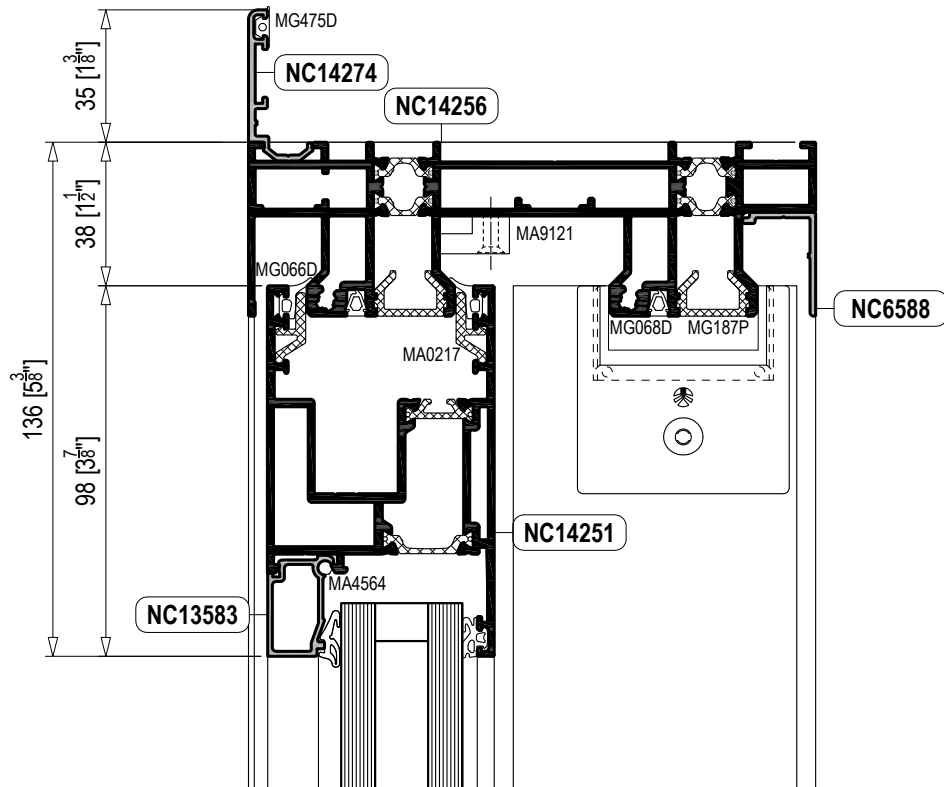
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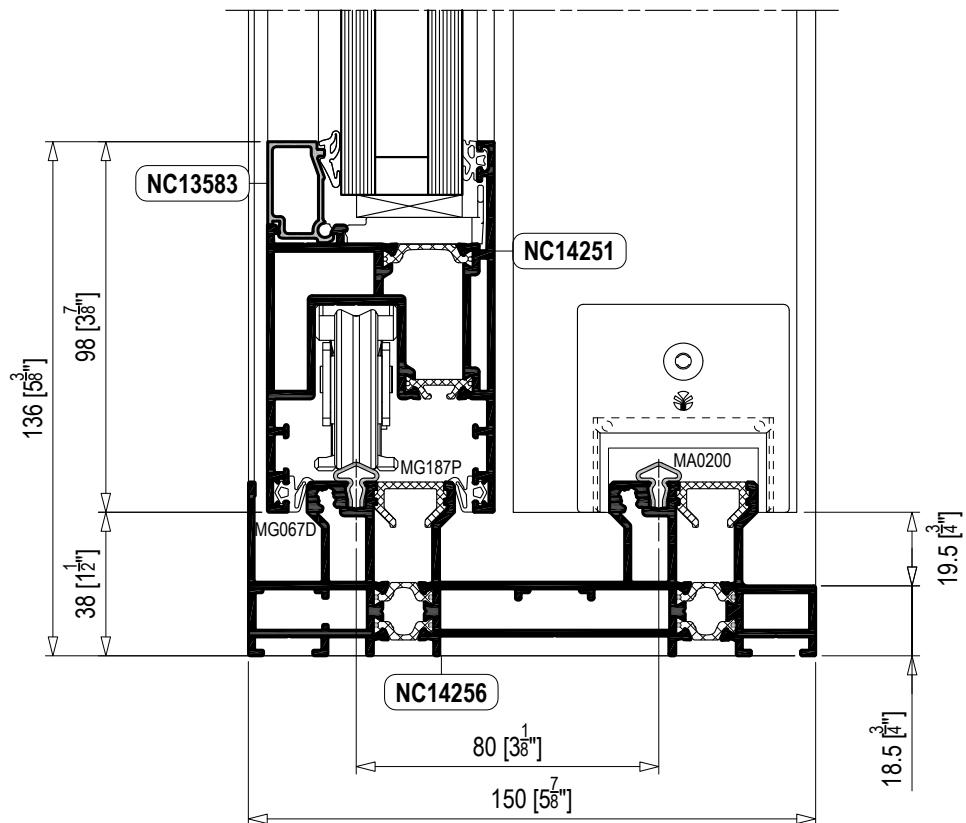
Section 36a



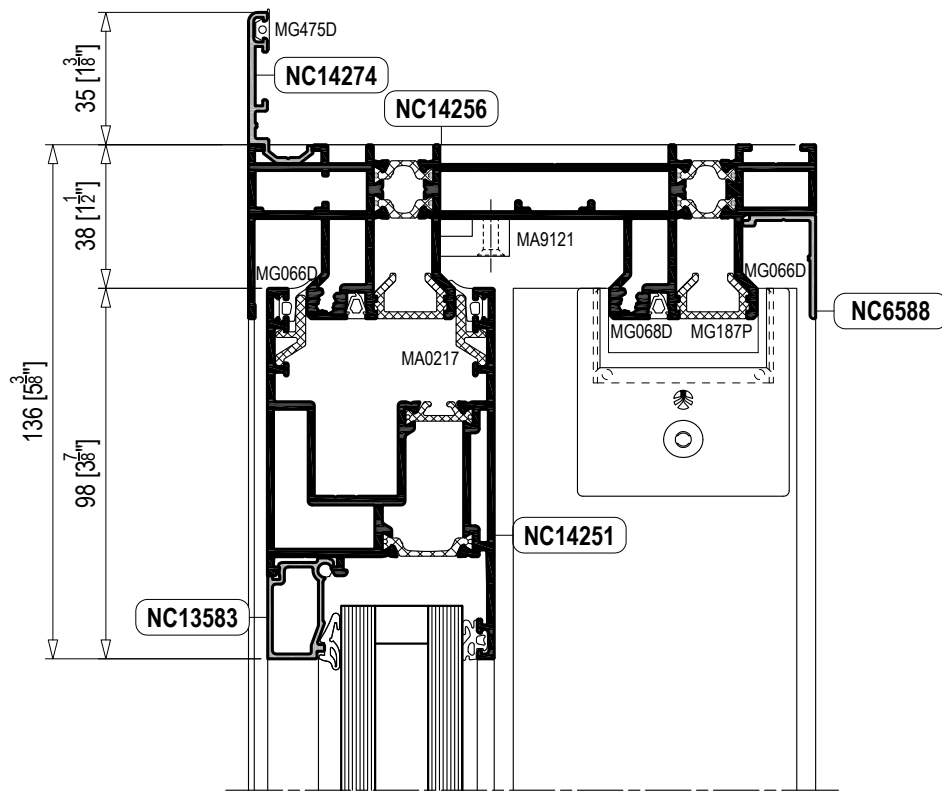
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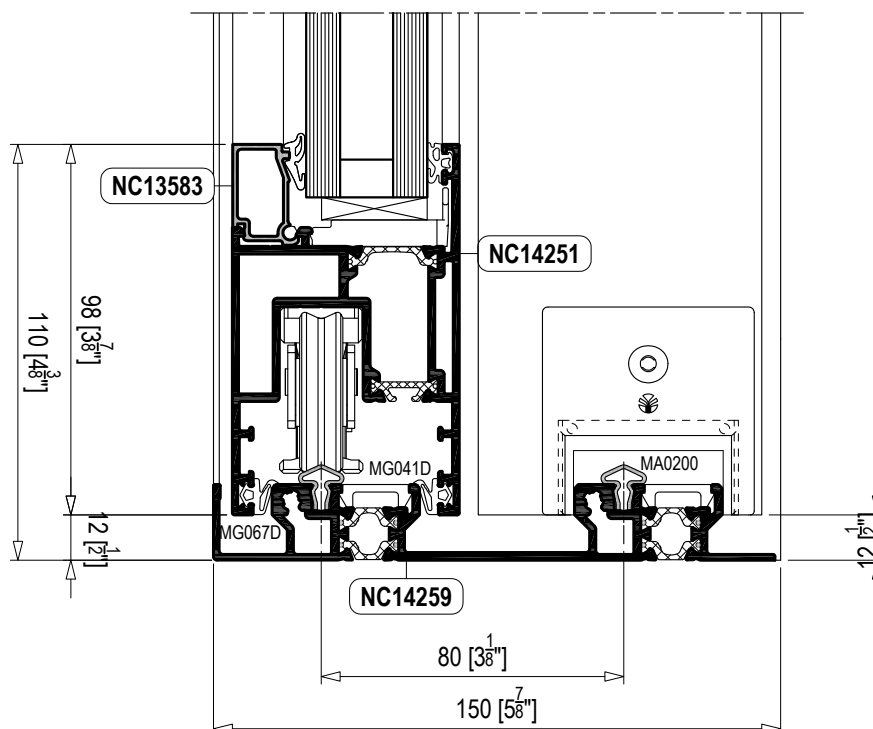
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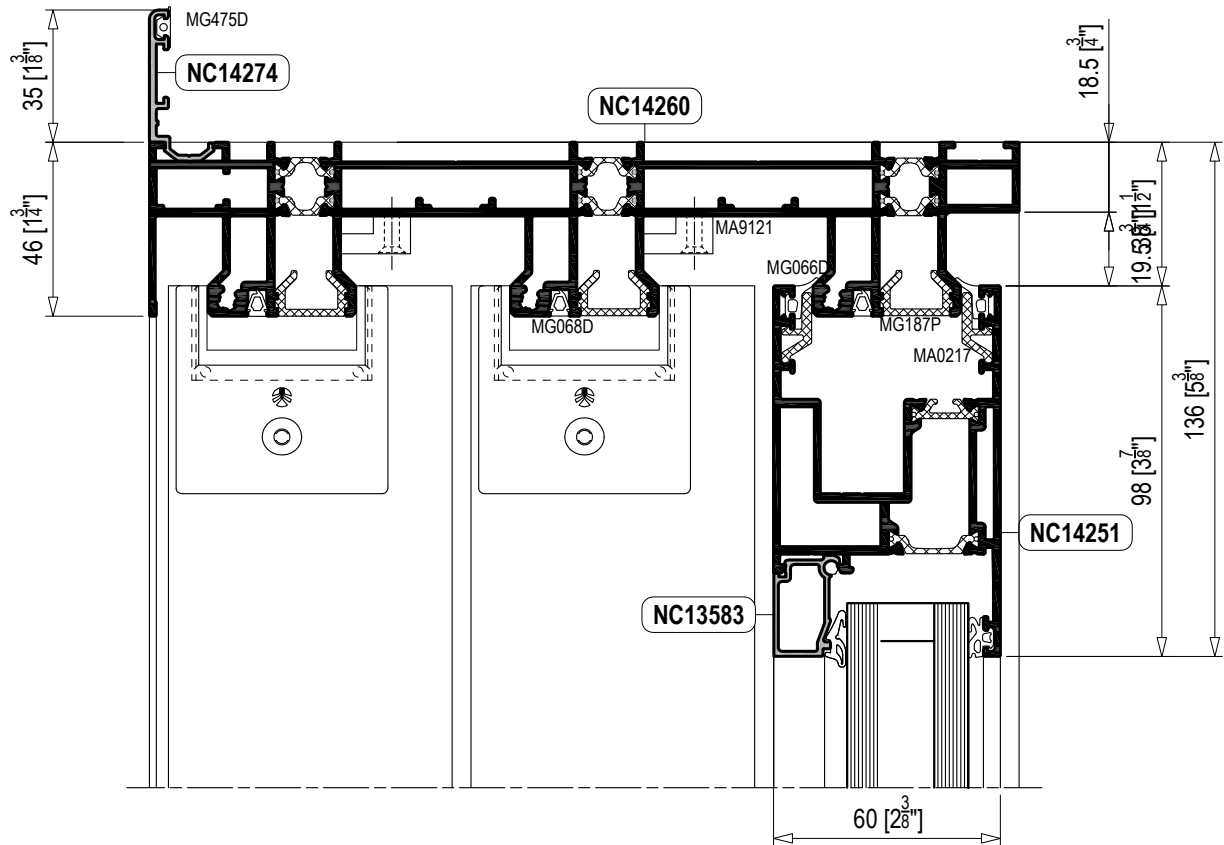
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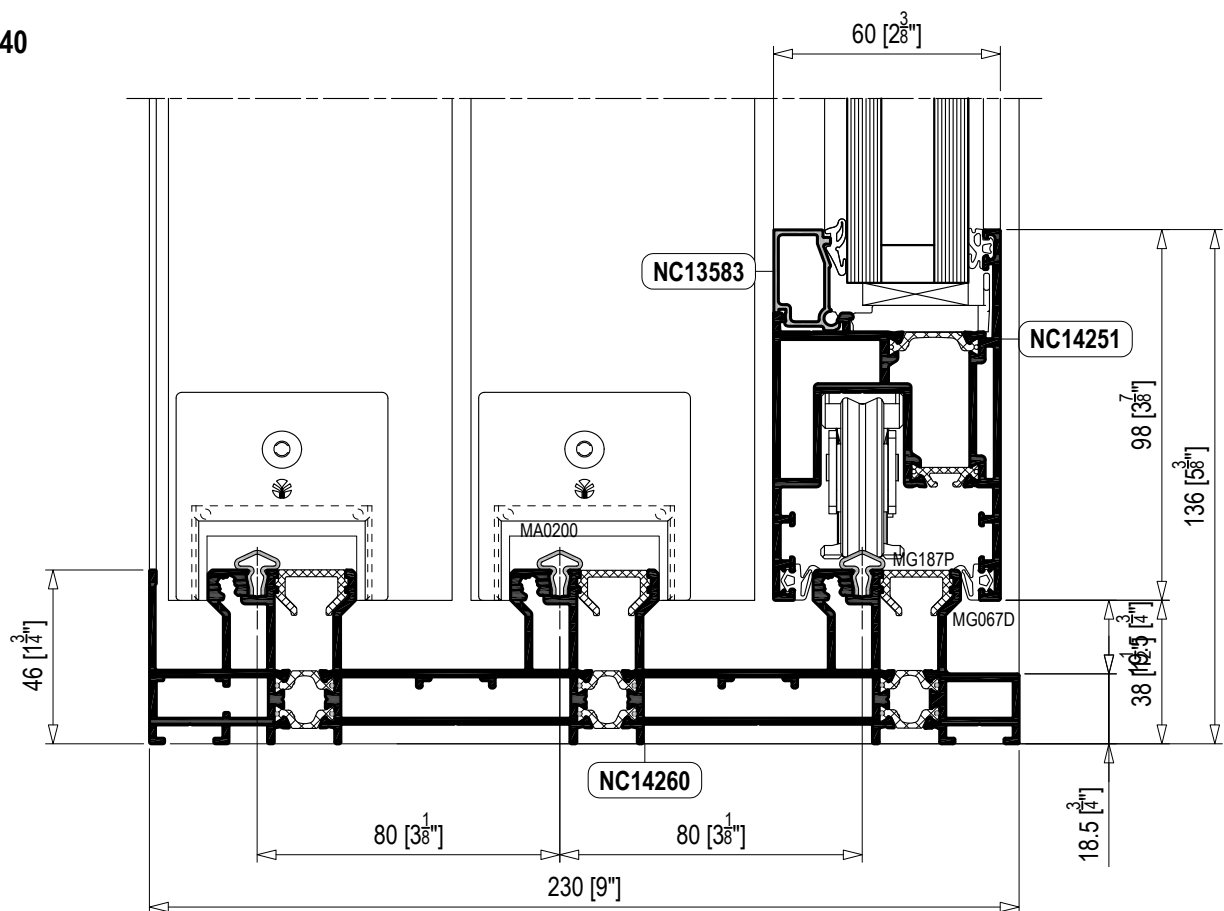
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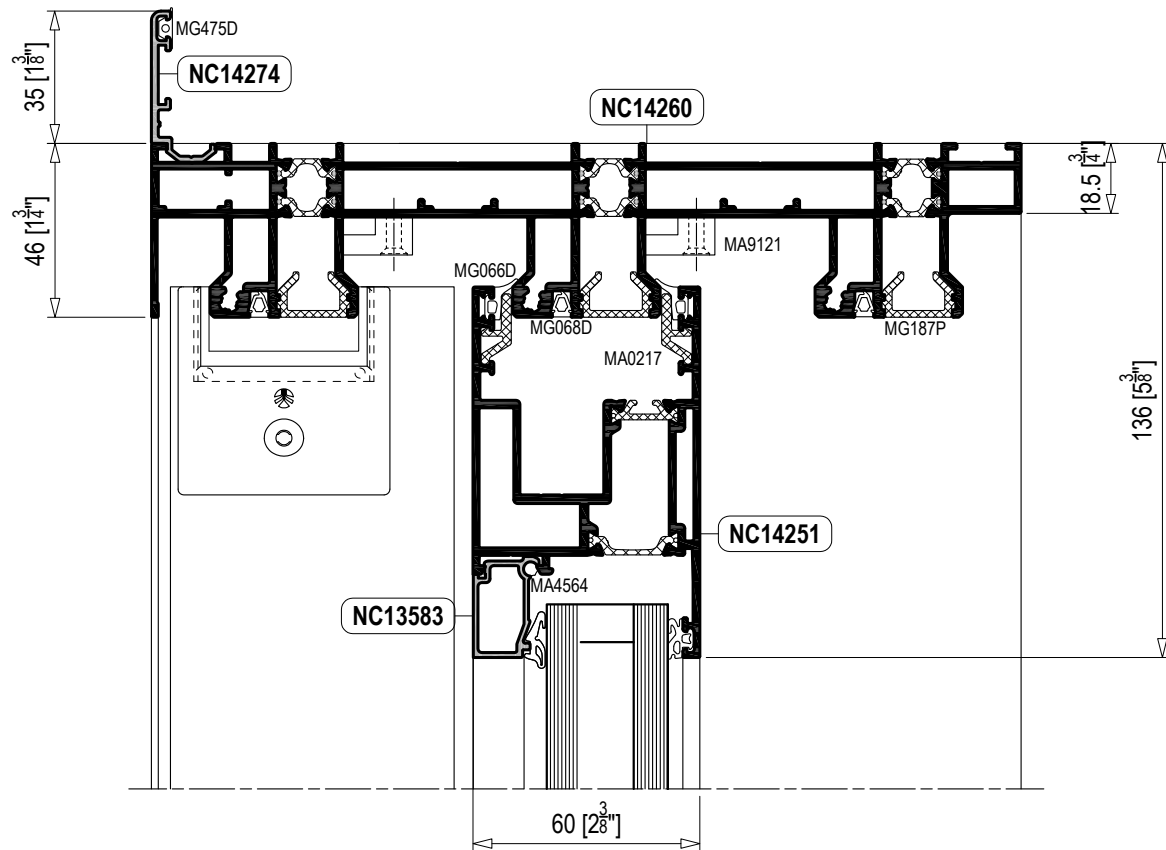
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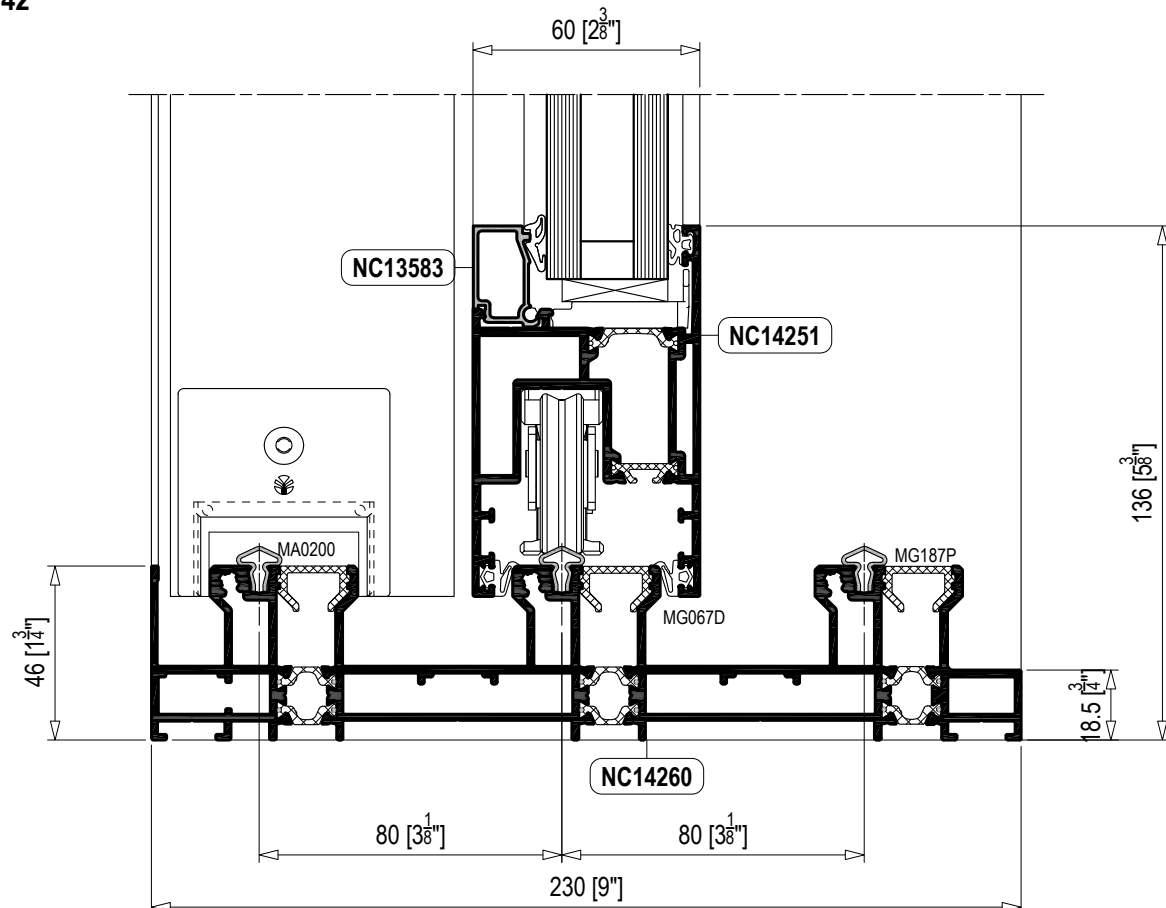
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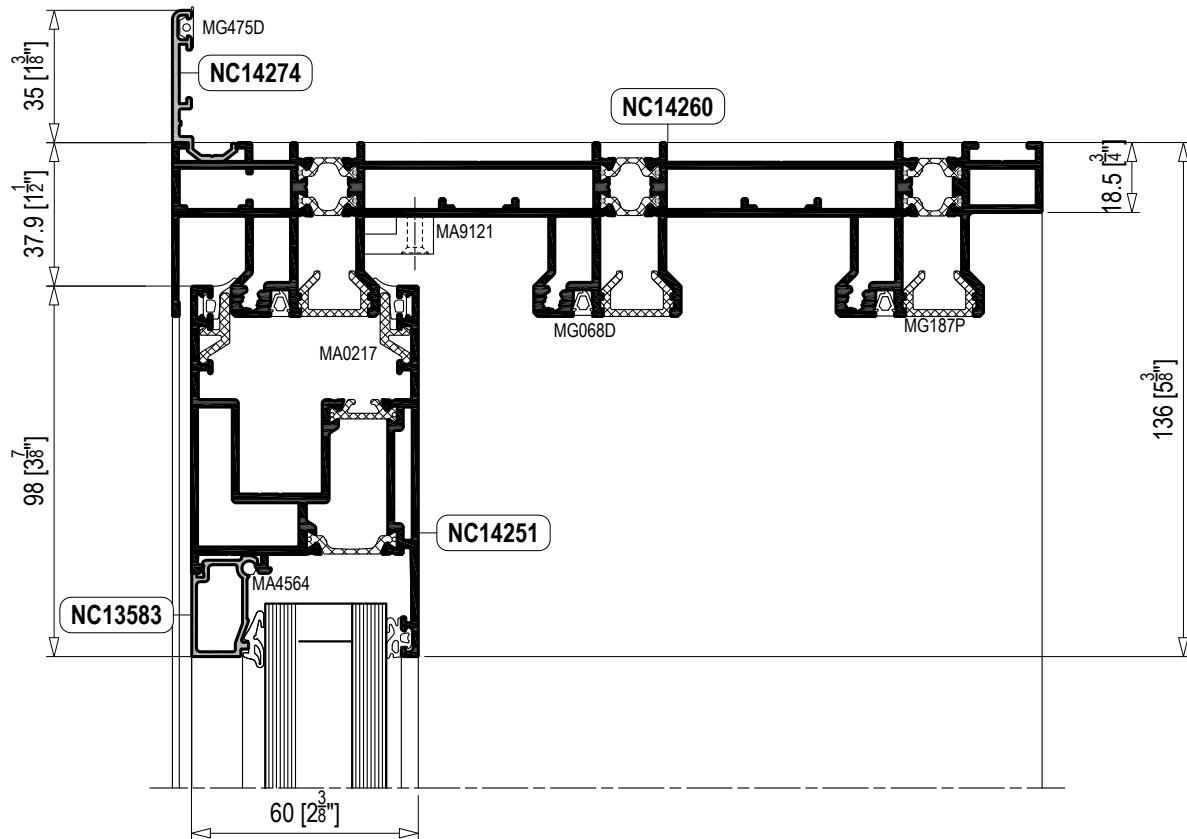
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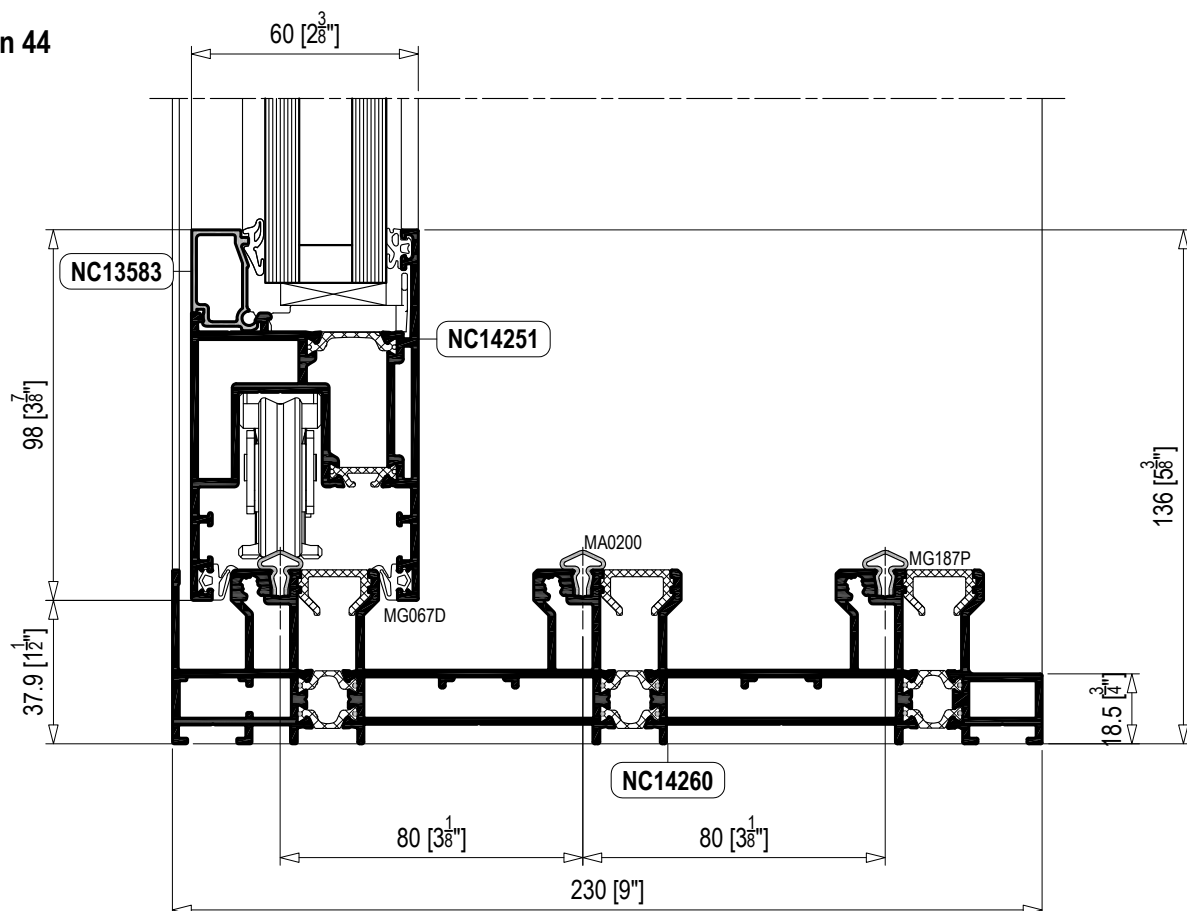
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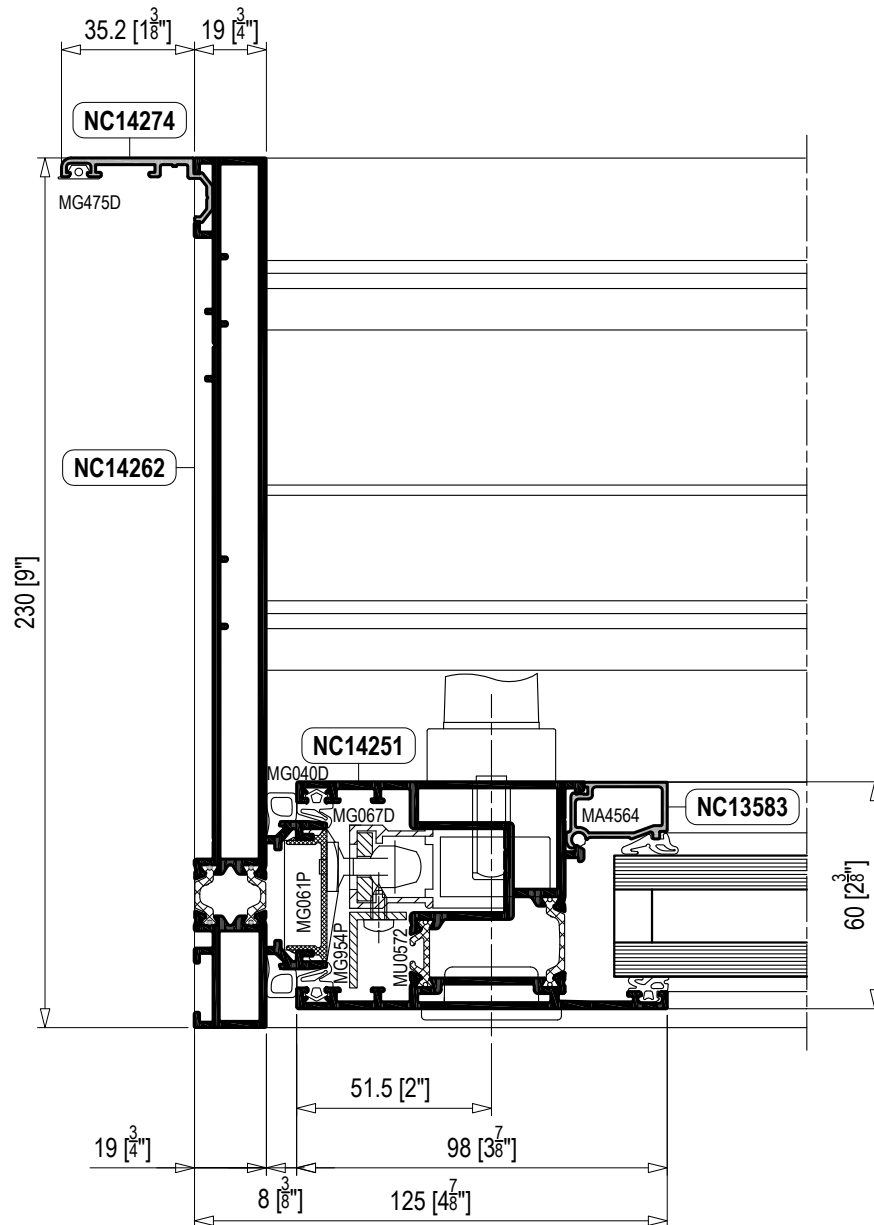
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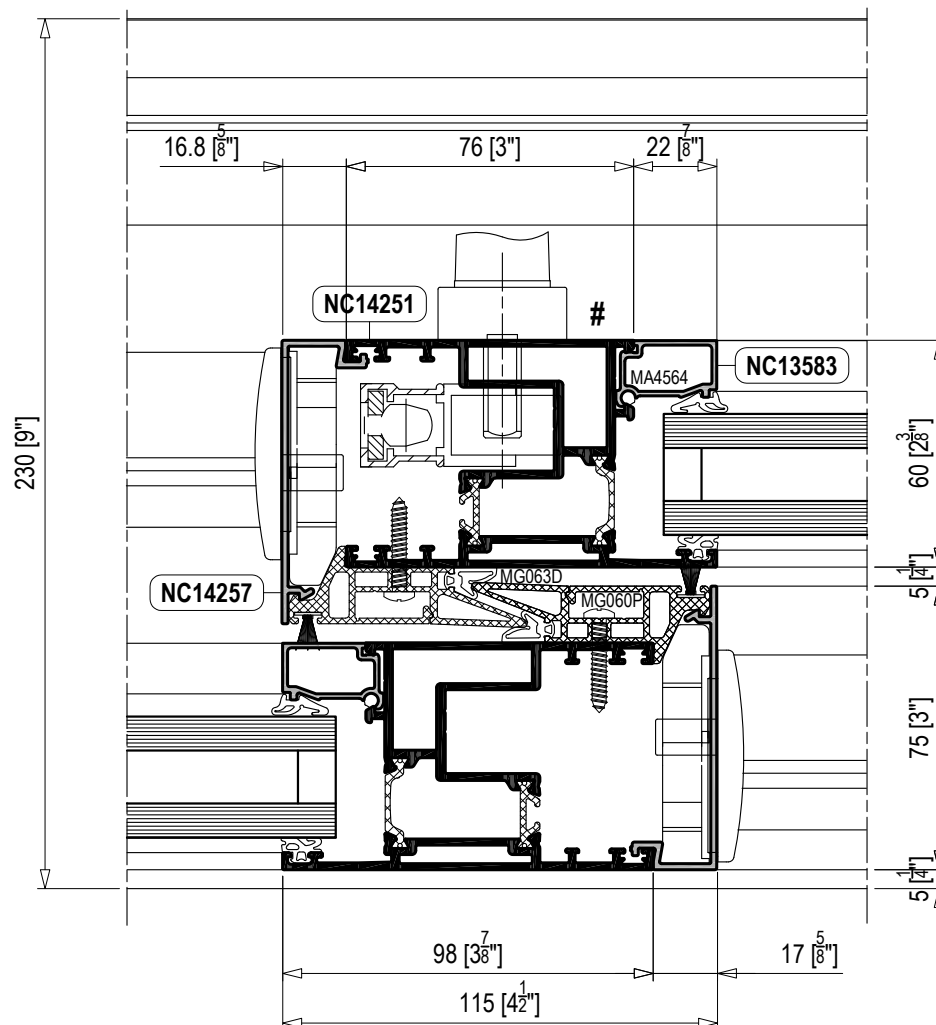
Section 44



Section 45

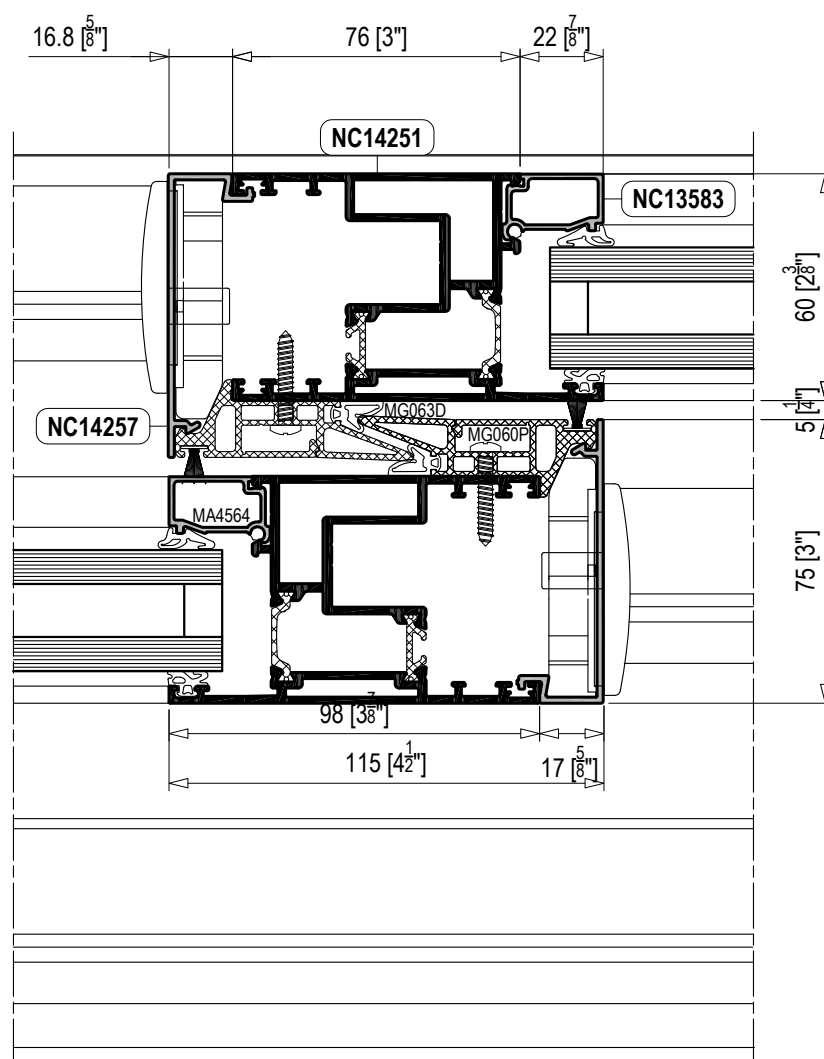


Section 46

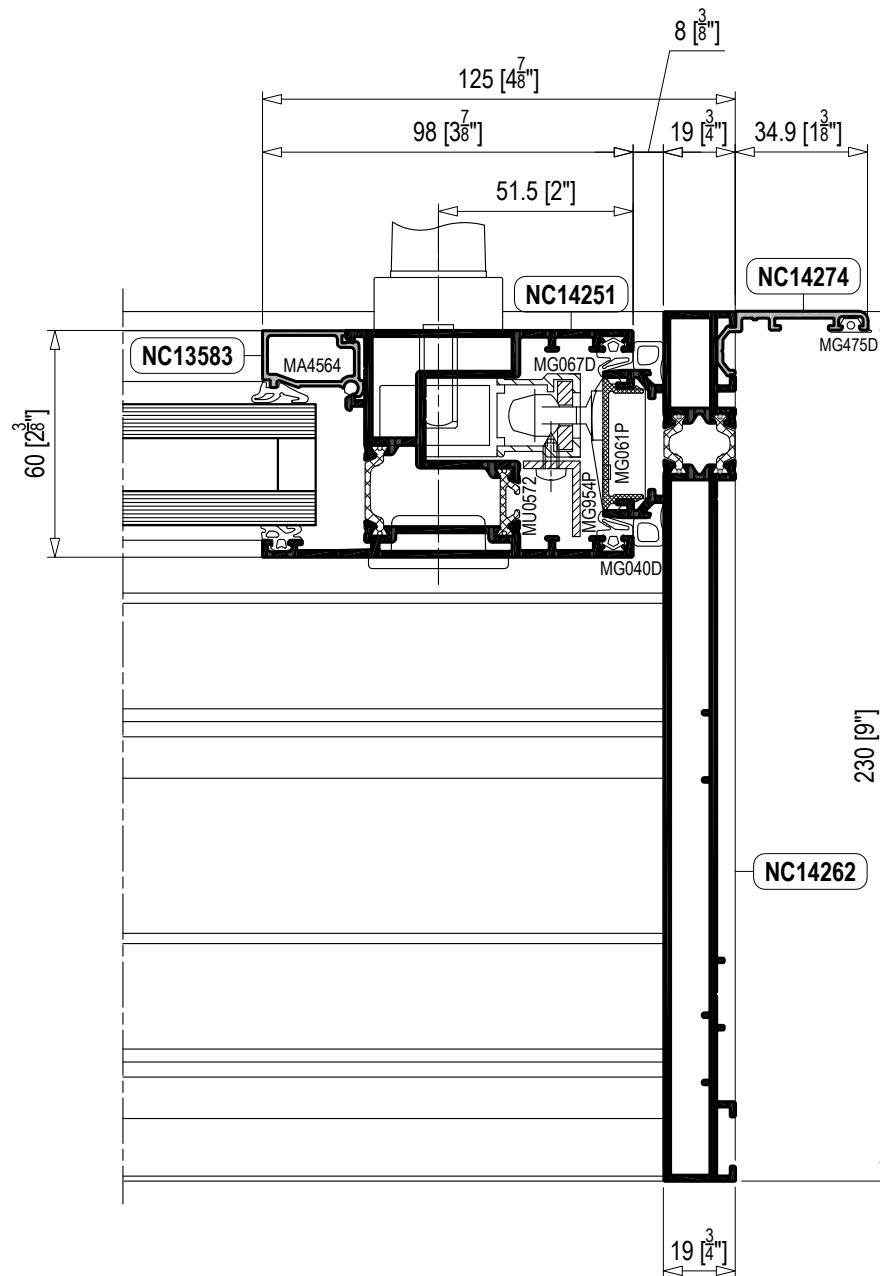


For the fixing of the pull handle use threaded screws on the profile
don't use the external flush pull grip in the package

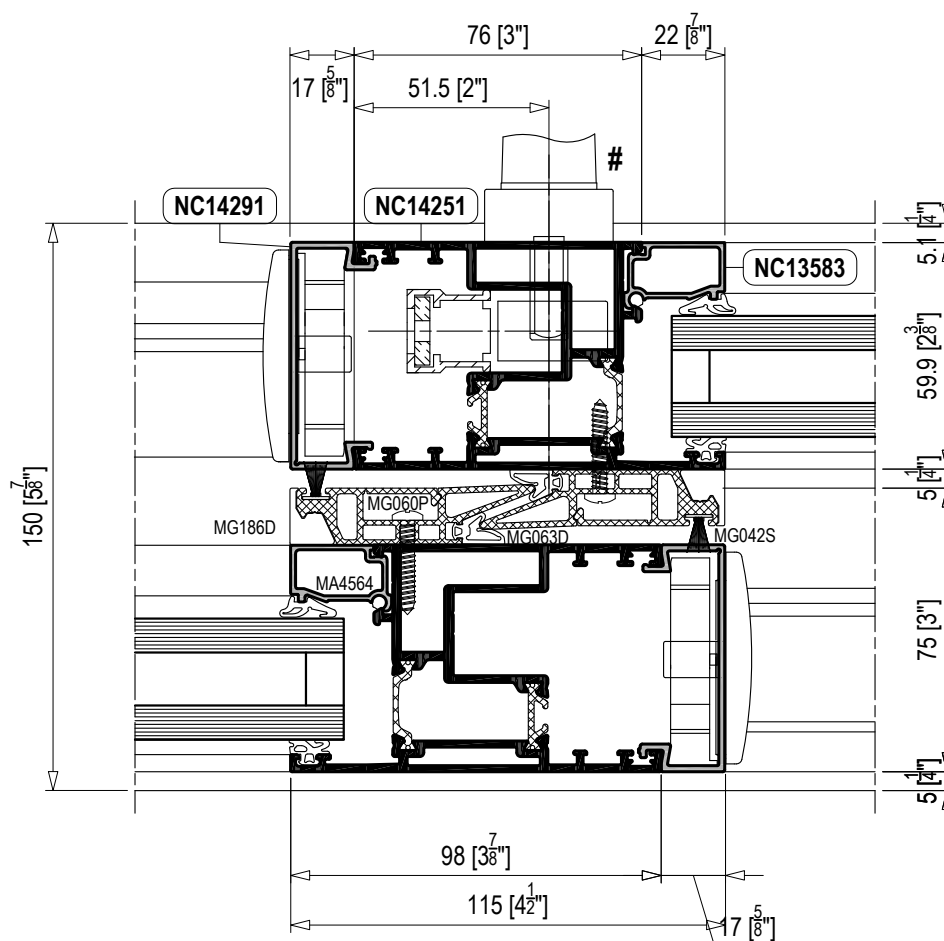
Section 47



Section 48

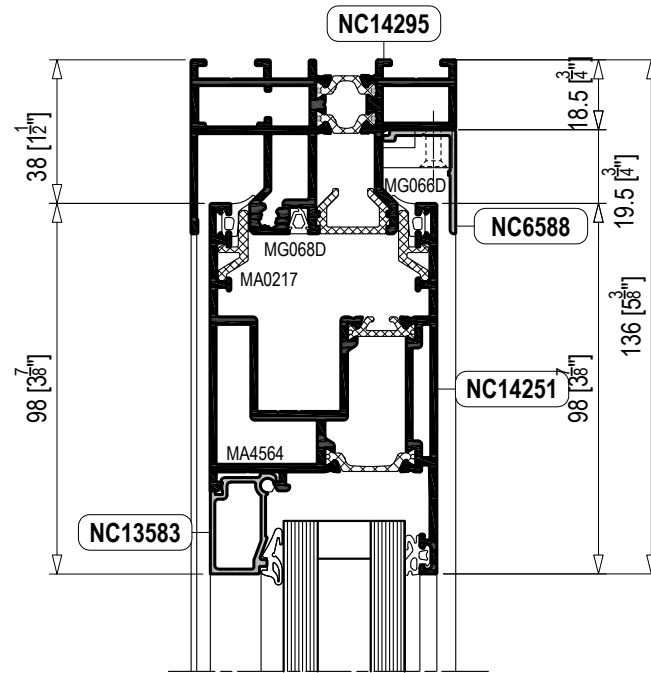


Section 49

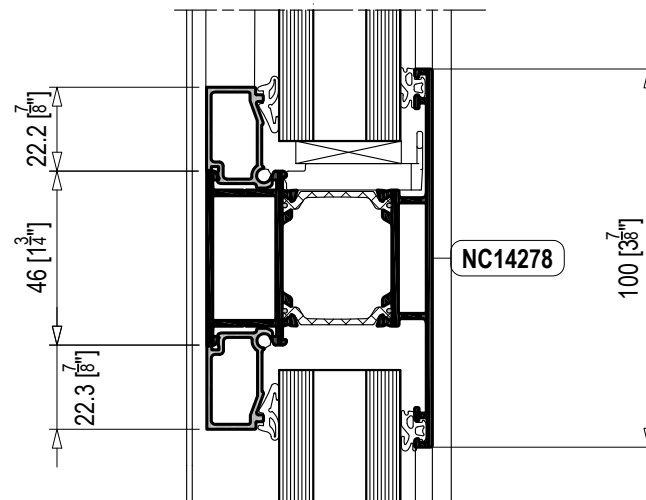


For the fixing of the pull handle use threaded screws on the profile
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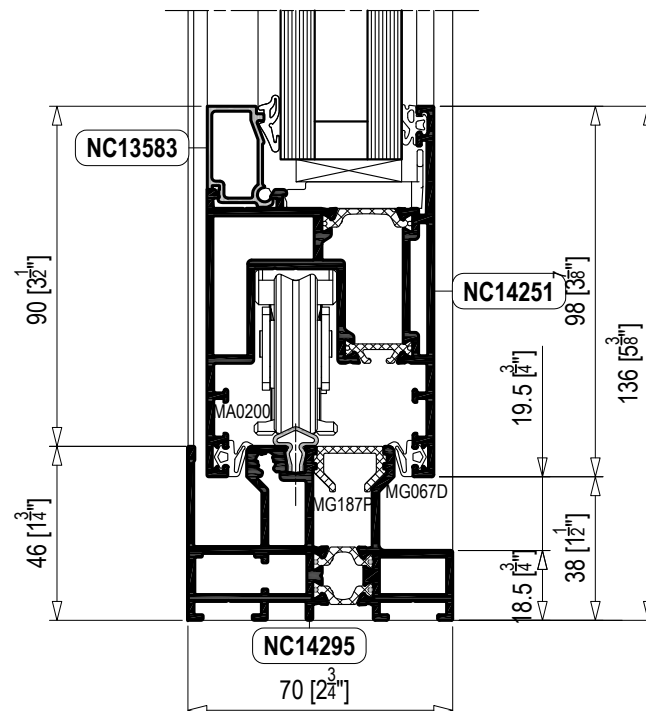
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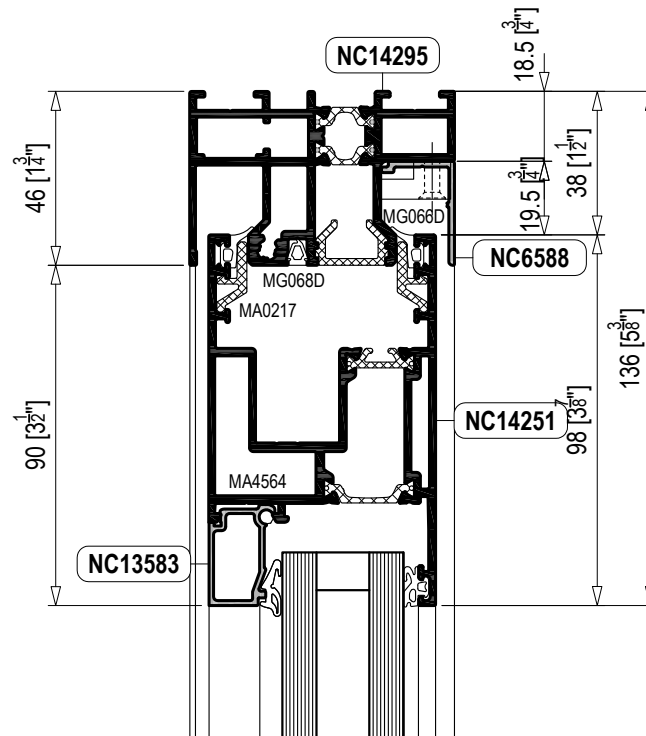
Section 55



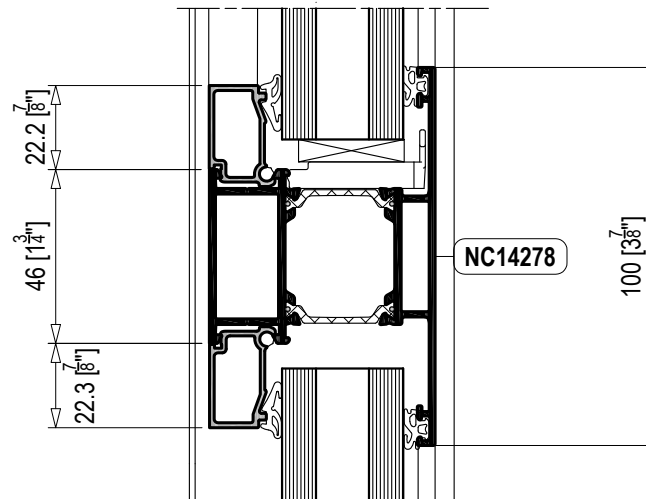
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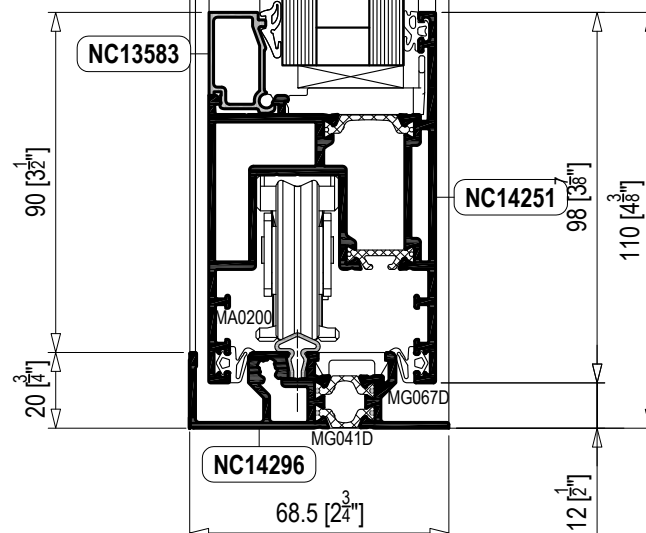
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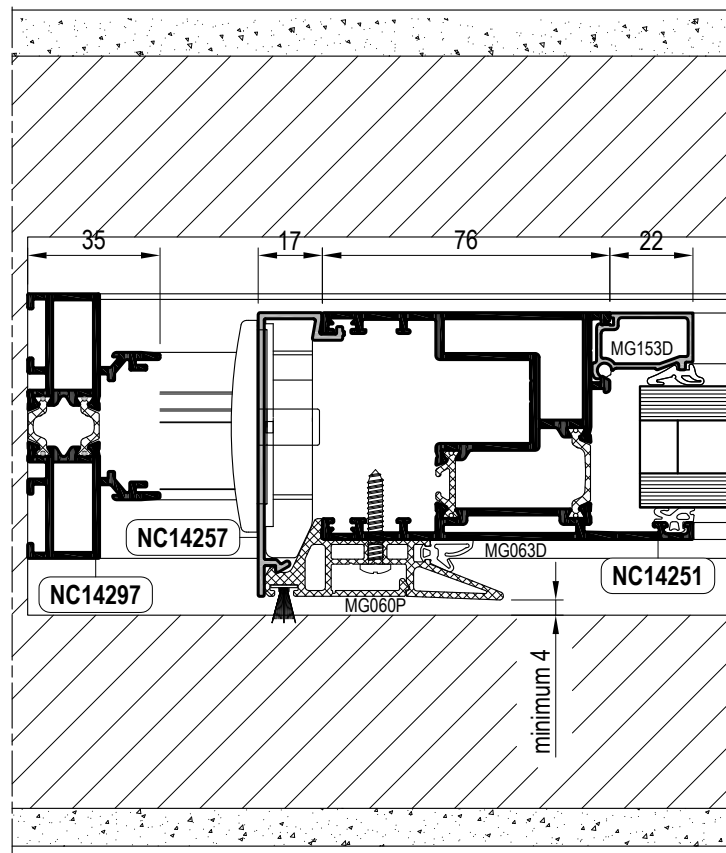
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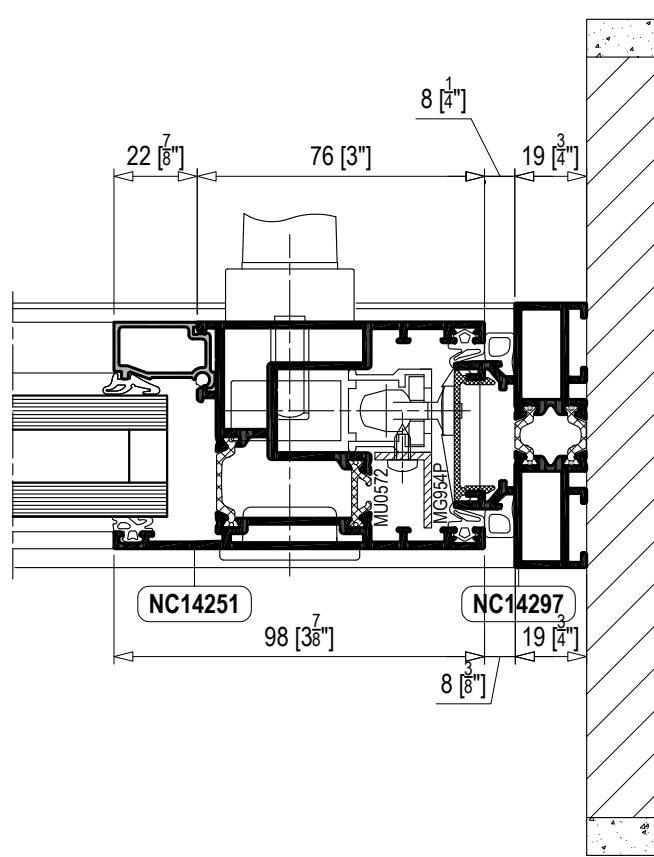
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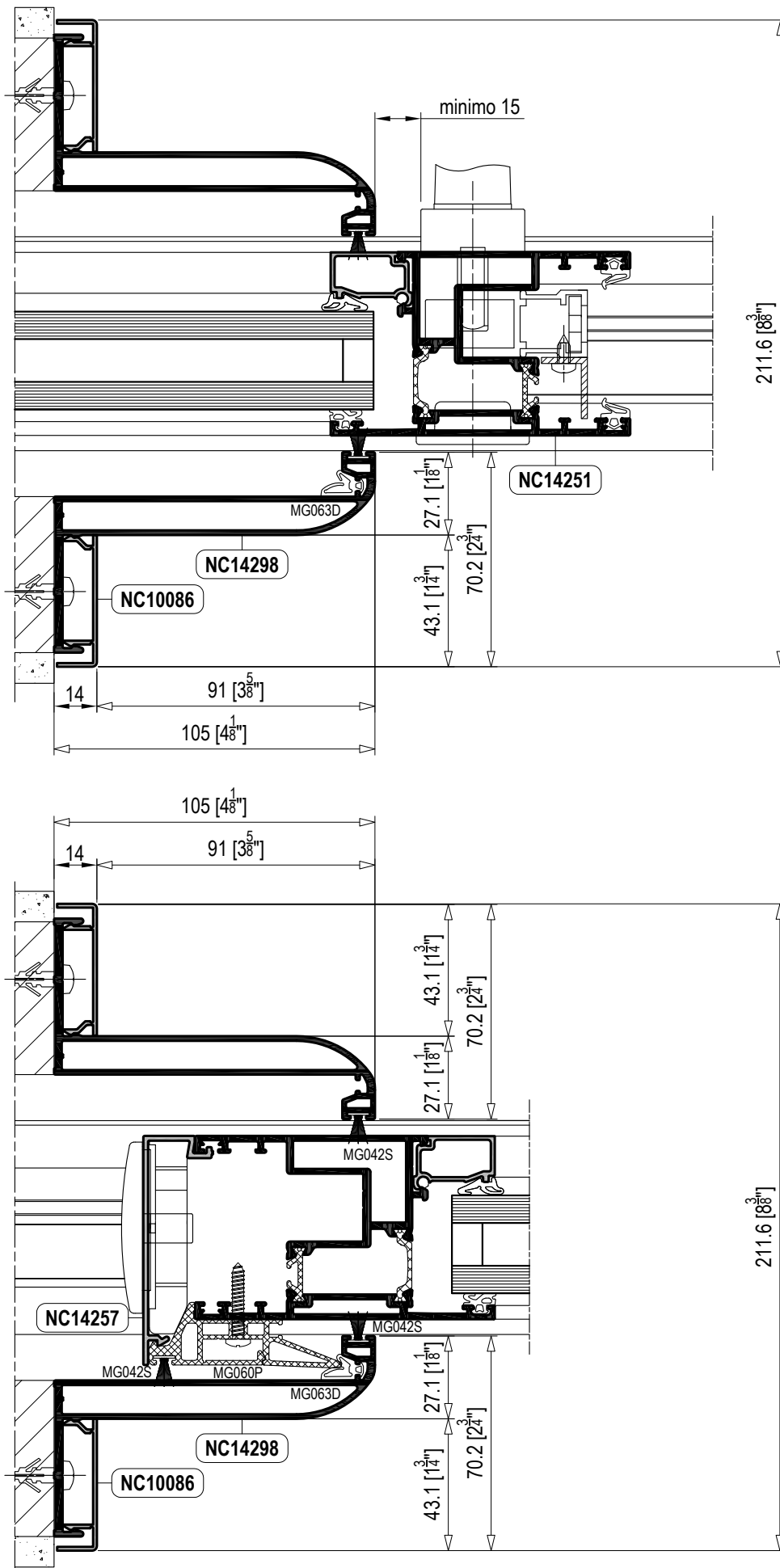
Section 52



Section 54



Section 53



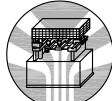
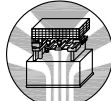
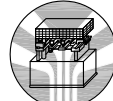
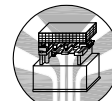
Equipment

Group MU

- Technical schedules for the use of the equipment

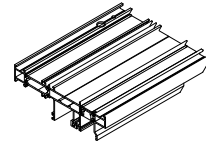
Basic equipment

Equipment

Solution 1		Solution 2		
	+			
MU2800 Power group 12 positions		MU2801 Support bench for MU2800		
			+	
		MU2822 Power group 7 positions		MU2836 Support bench for MU2822
			+	
				MU2853 Kit rotatable support for MU2822



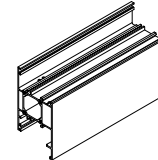
Hole for internal pin corner key/shear block $\varnothing 8 \left[\frac{5}{16} \right]$
Glue injection hole $\varnothing 5 \left[\frac{3}{16} \right]$ (can be excluded)



Profile: NC14261
Profile: NC14277
Profile: NC14278



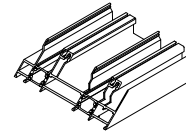
Hole for external pin shear block $\varnothing 5 \left[\frac{3}{16} \right]$
Glue injection hole $\varnothing 5 \left[\frac{3}{16} \right]$ (can be excluded)



Profile: NC14277
Profile: NC14278



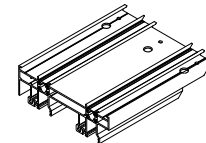
Breakthrough $10 \times 10 \left[\frac{3}{8} \times \frac{3}{8} \right]$ water drainage



Profile: NC14256
Profile: NC14260
Profile: NC14261



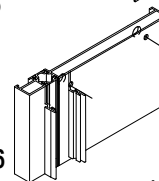
Hole for pin corner key $\varnothing 8 \left[\frac{5}{16} \right]$
Glue injection hole $\varnothing 5 \left[\frac{3}{16} \right]$ (can be excluded)



Profile: NC14256
Profile: NC14260
Profile: NC14261
Profile: NC14295



Double hole $\varnothing 10 / \varnothing 5^*$ for connection at 90° of NC14253 with frame NC14256
Double hole $\varnothing 10 / \varnothing 5^*$ for connection at 90° of NC14253 with frame NC14259
Double hole $\varnothing 10 / \varnothing 5^*$ for connection at 90° of NC14262 with frame NC14260
Double hole $\varnothing 10 / \varnothing 5^*$ for connection at 90° of NC14297 with frame NC14295
Double hole $\varnothing 10 / \varnothing 5^*$ for connection at 90° of NC14297 with frame NC14296

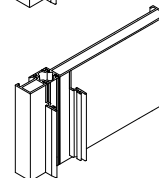


Profile: NC14253
Profile: NC14262
Profile: NC14297

* $\varnothing 10 / \varnothing 5 \left[\varnothing \frac{3}{8} / \varnothing \frac{3}{16} \right]$



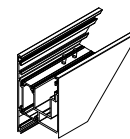
Fin removal for coupling at 90° of NC14253 with frame NC14256
Fin removal for coupling at 90° of NC14253 with frame NC14259
Fin removal for coupling at 90° of NC14262 with frame NC14260
Fin removal for coupling at 90° of NC14297 with frame NC14295
Fin removal for coupling at 90° of NC14297 with frame NC14296



Profile: NC14253
Profile: NC14262
Profile: NC14297



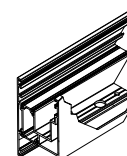
Hole for pin corner key $\varnothing 3.2 \left[\frac{1}{8} \right]$
Glue injection hole $\varnothing 3.2 \left[\frac{1}{8} \right]$



Profile: NC14251



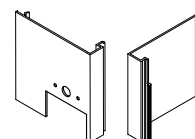
Hole for pin corner key $\varnothing 8 \left[\frac{5}{16} \right]$
Glue injection hole $\varnothing 5 \left[\frac{3}{16} \right]$ (can be excluded)



Profile: NC14251



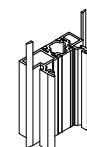
Breakthrough and holes for sash insertion and cap fixing
Breakthrough for the insertion of the moulded corner



Profile: NC14257
Profile: NC14291



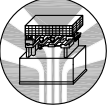
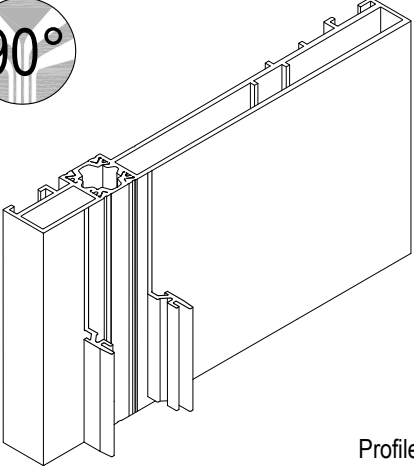
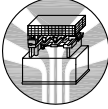
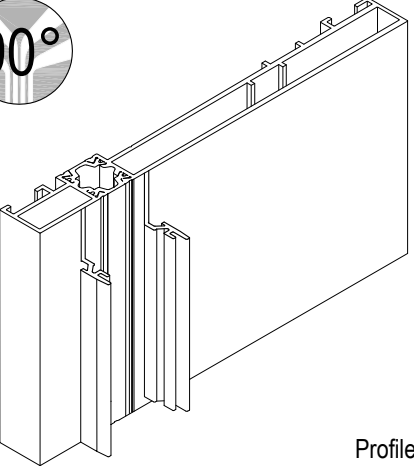
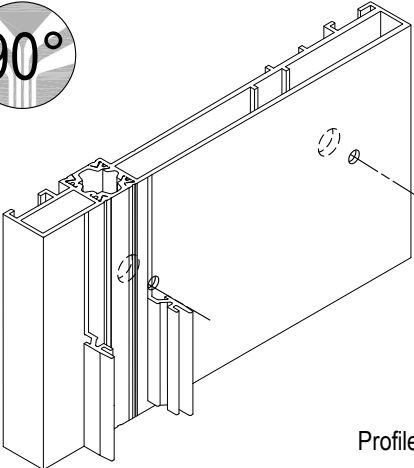
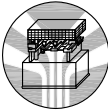
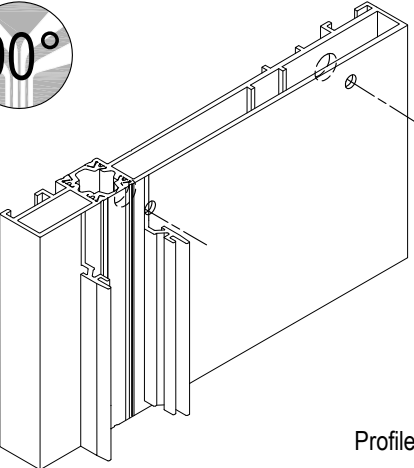
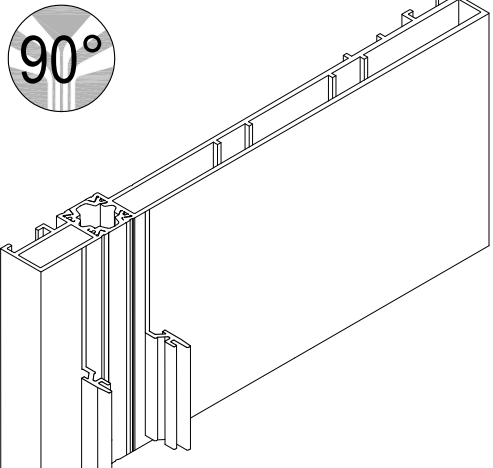
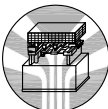
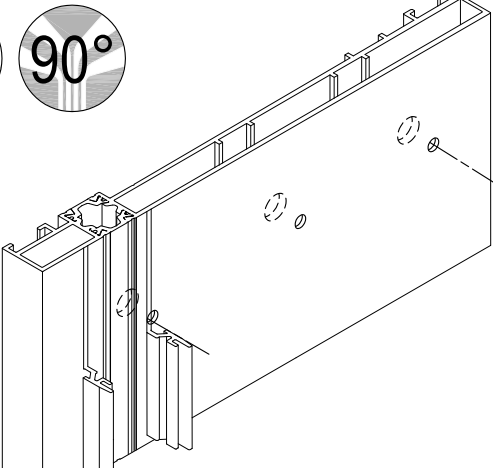
Breakthrough for cap insertion



Profile: NC14286

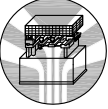
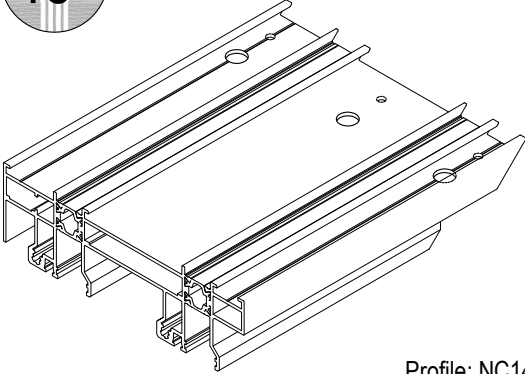
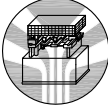
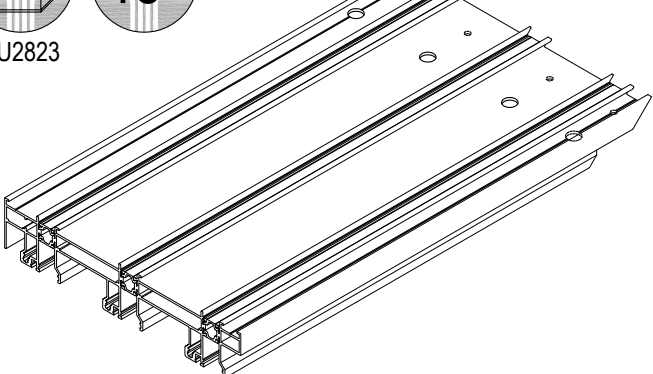
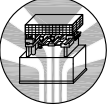
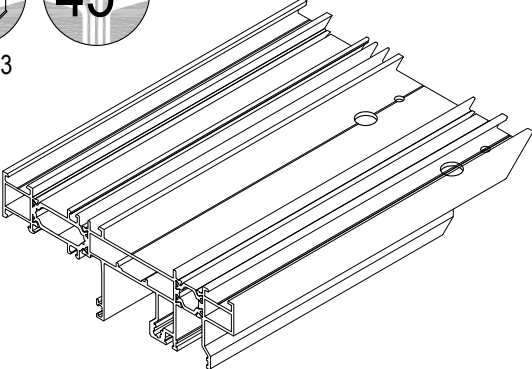
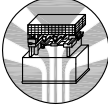
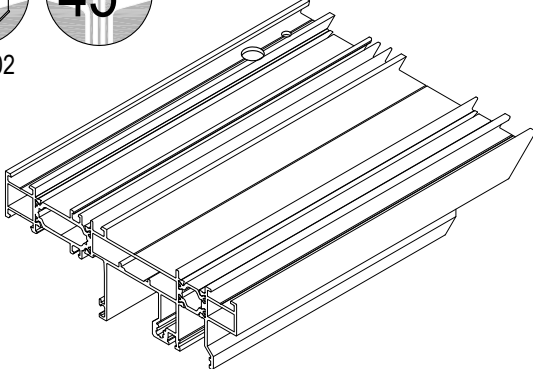
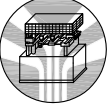
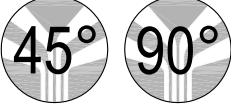
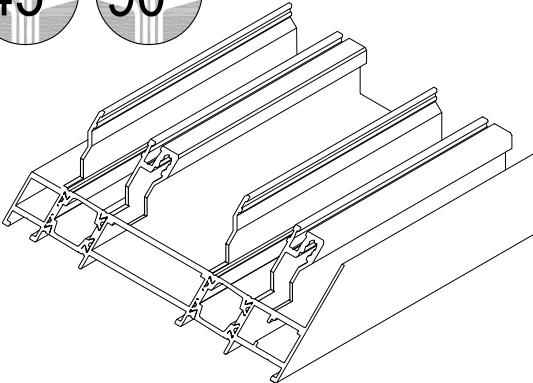
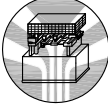
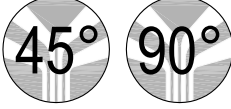
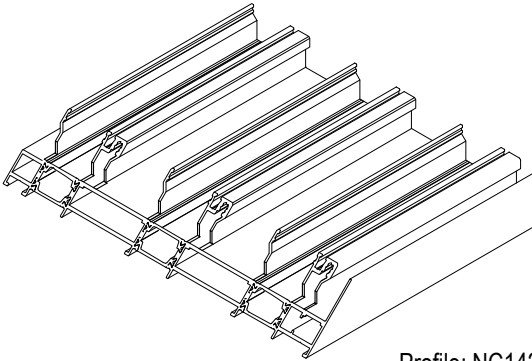
Equipment

Shearing units

1	Fin removal for 90° coupling with frame NC14256 NC14295	2	Fin removal for 90° coupling with frame NC14259 NC14296
 MU2832	  Profile: NC14253 NC14297	 MU2832	  Profile: NC14253 NC14297
3	Double hole Ø10/Ø5 [Ø ³ / ₈ "/Ø ³ / ₁₆ "] for 90° coupling with frame NC14256 NC14295	4	Double hole Ø10/Ø5 [Ø ³ / ₈ "/Ø ³ / ₁₆ "] for 90° coupling with frame NC14259 NC14296
 MU2839	  Profile: NC14253 NC14297	 MU2839	  Profile: NC14253 NC14297
5	Double hole Ø10/Ø5 [Ø ³ / ₈ "/Ø ³ / ₁₆ "] for 90° coupling with frame NC14260	6	Double hole Ø10/Ø5 [Ø ³ / ₈ "/Ø ³ / ₁₆ "] for 90° coupling with frame NC14260
 MU2832	  Profile: NC14262	 MU2839	  Profile: NC14262

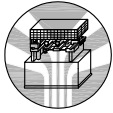
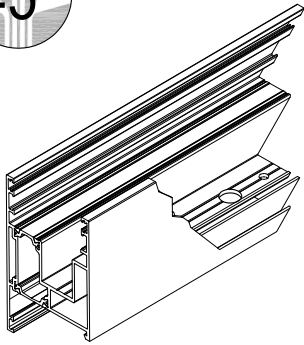
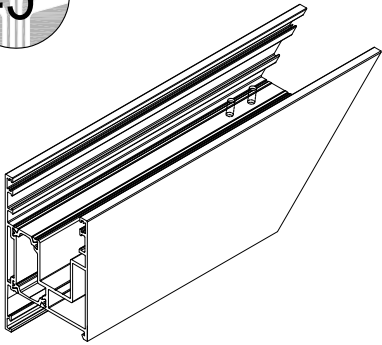
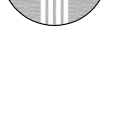
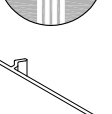
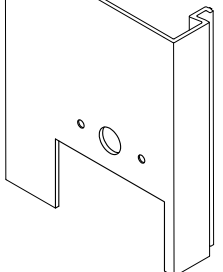
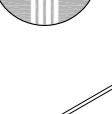
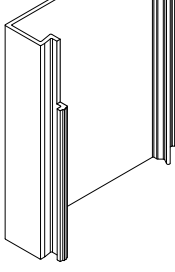
Equipment

Punch units

7	Hole for pin corner key $\varnothing 8 \left[\frac{5}{16}'' \right]$ Glue injection hole $\varnothing 5 \left[\frac{3}{16}'' \right]$ (can be excluded)	8	Hole for pin corner key $\varnothing 8 \left[\frac{5}{16}'' \right]$ Glue injection hole $\varnothing 5 \left[\frac{3}{16}'' \right]$ (can be excluded)
 MU2823	  Profile: NC14256 NC14295	 MU2823	  Profile: NC14260
9	Hole for pin corner key $\varnothing 8 \left[\frac{5}{16}'' \right]$ Glue injection hole $\varnothing 5 \left[\frac{3}{16}'' \right]$ (can be excluded)	10	Hole for pin corner key $\varnothing 8 \left[\frac{5}{16}'' \right]$ Glue injection hole $\varnothing 5 \left[\frac{3}{16}'' \right]$ (can be excluded)
 MU2823	  Profile: NC14261	 MU2802	  Profile: NC14261
11	Breakthrough $10 \times 10 \left[\frac{3}{8}'' \times \frac{3}{8}'' \right]$ water drainage	12	Breakthrough $10 \times 10 \left[\frac{3}{8}'' \times \frac{3}{8}'' \right]$ water drainage
 MU2841	  Profile: NC14256	 MU2841	  Profile: NC14260

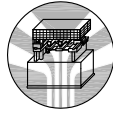
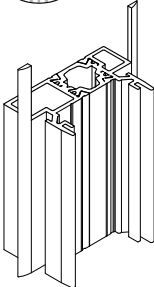
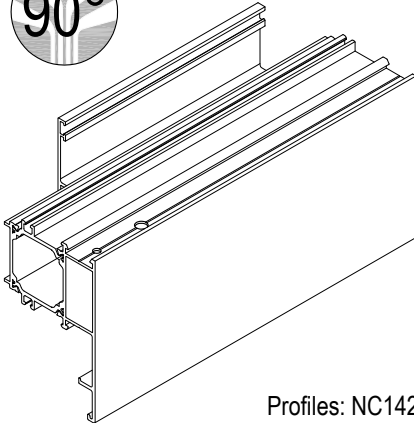
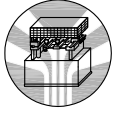
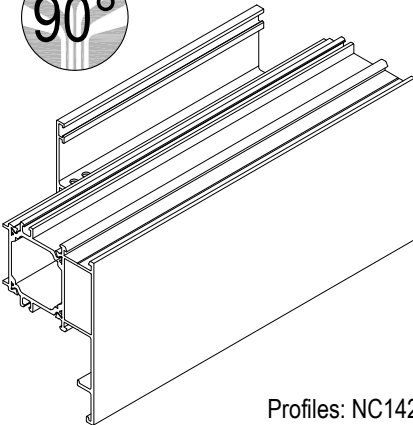
Equipment

Punch units

13	Hole for plugging corner key $\varnothing 8 \left[\frac{5}{16}'' \right]$ Glue injection hole $\varnothing 5 \left[\frac{3}{16}'' \right]$ (can be excluded)	14	Hole for plugging corner key $\varnothing 3.2 \left[\frac{1}{8}'' \right]$ Glue injection hole $\varnothing 3.2 \left[\frac{1}{8}'' \right]$
 MU2823	 	 MU2842	 
	Profile: NC14251		Profile: NC14251
15	Breakthrough and holes for sash insertion and cap fixing	16	Breakthrough and holes for insertion of moulded corner
 MU2831	  	 MU2831	  
	Profile: NC14257		Profile: NC14257
17	Breakthrough and holes for sash insertion and cap fixing	18	Breakthrough for insertion of moulded corner
 MU2831	 	 MU2831	 
	Profile: NC14291		Profile: NC14291

Equipment

Miscellaneous

19	Butting for cap insertion	20	Hole for internal plugging U-bolt $\varnothing 8 \left[\frac{5}{16}'' \right]$ Glue injection hole $\varnothing 5 \left[\frac{3}{16}'' \right]$ (can be excluded)
 MU0201		 MU2802	
   Profile: NC14286		   Profiles: NC14277 NC14278	
21	Hole for external plugging U-bolt $\varnothing 5 \left[\frac{3}{16}'' \right]$ Glue injection hole $\varnothing 5 \left[\frac{3}{16}'' \right]$ (can be excluded)	22	
 MU2812		   Profiles: NC14277 NC14278	
23		24	



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