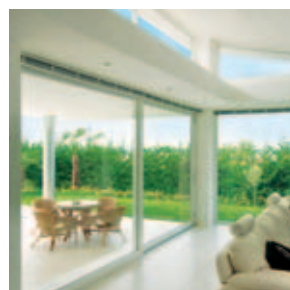


NC-S 150 SD

Sliding Systems



CATALOGUE RELEASE

CURRENT RELEASE

2011

05

Previous version:

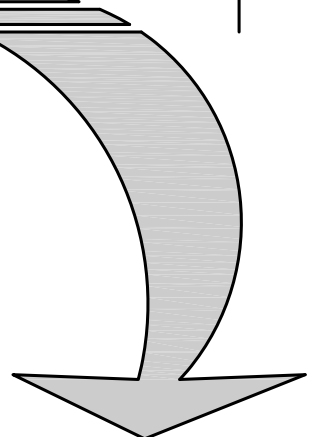
2011

04

SINGLE PAGE UPDATE:

Each page has a "Release" date
and a "replaced version" date if updated,
both are located at the lower right corner of each page.

As some pages may not vary from previous release,
please consider the Environment
when printing this Catalogue



NC-S 150 SD

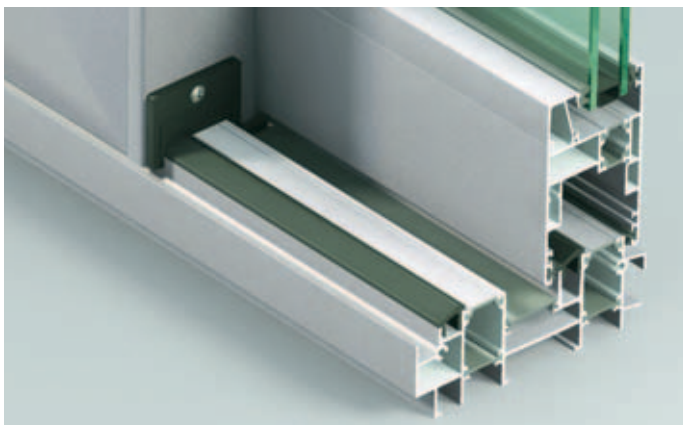


Features

- 6063-T5 Aluminum Alloy Frame
- Frame Depth: 150 mm [5 ⁷/₈"]
- Max Glass Size: 42 mm [1 ⁵/₈"]
- Max Sash Weight: 300 kg [660 lbs]
- Weather Stripping: EPDM or Brush Gaskets
- Thermal Barrier: Polyamide
- Lift-and-Slide Mechanism
- Remote Controlled Door System
- Multi-point Lock System
- Durable Components

Benefits

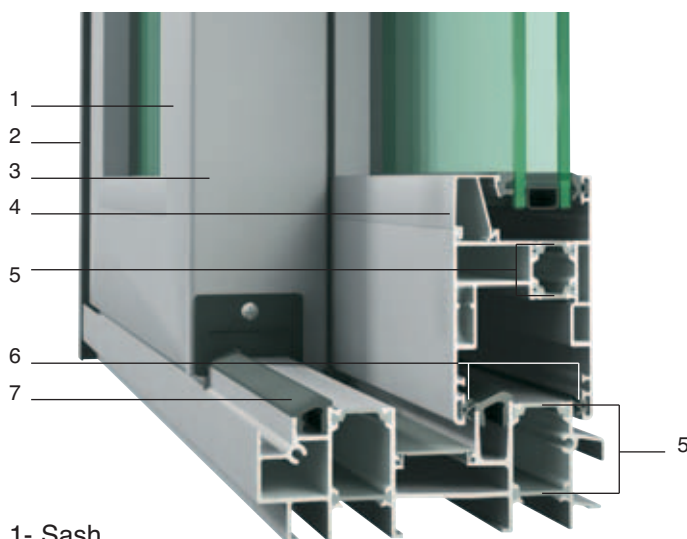
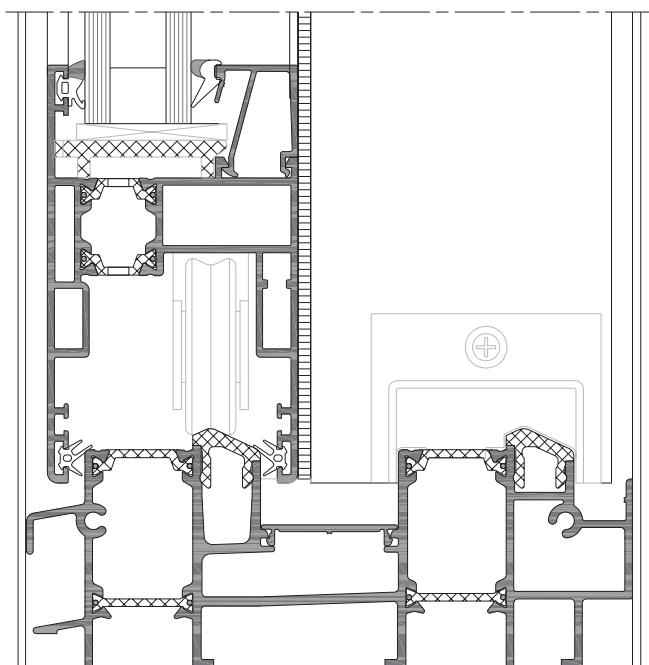
- Large Unobstructed Openings
- Acoustic Insulation
- Thermal Insulation
- Quiet and Smooth Closing System
- Easy Maintenance



Applications

- Doors
- Fixed Windows
- Windows

Technology

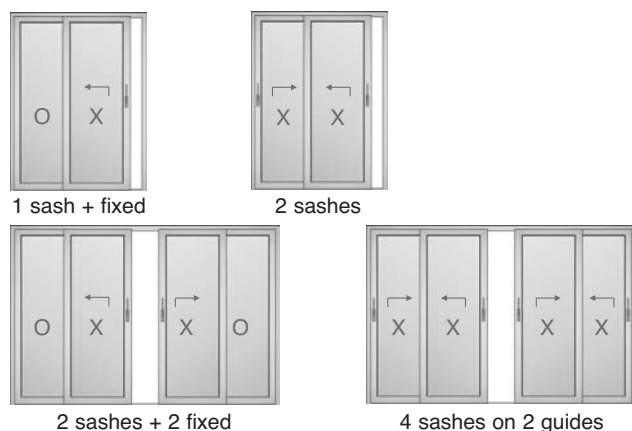


- 1- Sash
- 2- Frame
- 3- Painted or Anodized Finish
- 4- Glass Stop
- 5- Polyamidic Thermal Barrier
- 6- Weather Seal Gasket
- 7- Maintenance Free Sliding Guides

Performance data

Tested Configuration	Specimen Size	AAMA/WDMA/CSA 101/I.S.2/A440-05	European Standards
 Lift and Slide	SD - AW 40 4000 x 2500 mm [157" x 98 "]	Air infiltration: cfm/ft ² Q average	Air infiltration - EN 1026
		0.23 L/s-m² @ 75 Pa 0.49 L/s-m² @ 300 Pa	Class 4
		Water penetration: ASTM E331 - E547	Water penetration - EN 1027 EN 12208
		DP 65: 470 Pa [9.75 psf]	E1050
		Structural:	Wind resistant EN 12210 EN 12211
		DP 40: 2873 Pa [60 psf]	A5

Configurations



Automated Door System (Optional)

- Available Closing Systems:
 - Push and Go
 - Push Button
 - Remote Control
 - Motion Detector
- Min Sash Width: 750 mm [29 1/2"]
- Max Sash Width: 3300 mm [129 7/8"]
- Min Sash Height: 800 mm [31 1/2"]
- Max Sash Height: 3230 mm [127 1/8"]
- Max Sash Weight: 300 kg [660 lbs]
- Built-in Safe Mechanism



Glazing Options

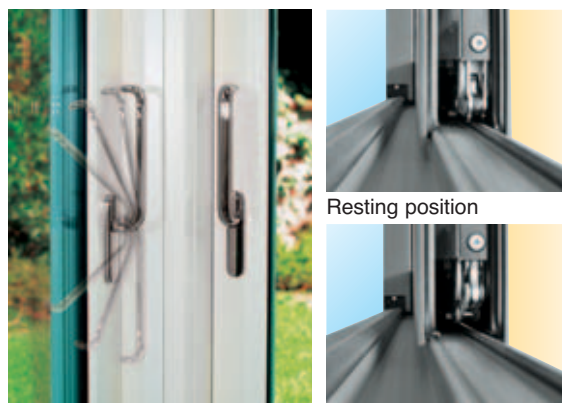
The system provides design-flexibility to meet your performance needs.

System will accommodate glass from 8 mm [3/8"] up to 42 mm [1 5/8"] in thickness.

Different configurations can be evaluated with our Engineering Team.

Lift and Slide Solution

- It's ideal for moving large, heavy sashes with ease.
- Controlled and silent movement of the sash.
- Bear loads up to 300 kg [660 lbs].



Handle movement

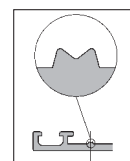
Sliding position

Quality

METRA stands for quality and optimal performance.

Only original METRA profiles and accessories can certify the highest performance.

Original METRA products have an "M" mark on the interior surface.



METRA quality is certified by ISO 9001.

METRA controls the entire process of production for the extrusions.

Manufacturing and installation of final products are performed through a network of independent specialists.





AAMA
SD-C35



AIR-INS inc.

1320, boul. Lionel-Boulet, Varennes (Québec) J3X 1P7 – Tél.: (450) 652-0838 • Fax: (450) 652-7588 • info@air-ins.com

**PERFORMANCE TESTS IN ACCORDANCE
WITH AAMA/WDMA/CSA 101/L.S. 2/A440-05**

Product Manufacturer:

**METRA SYSTEM INC.
1995, BOUL. INDUSTRIEL
LAVAL, QUÉBEC
H7S 1P6**

TEST REPORT SUMMARY OF RESULTS	
Product type	Aluminum Sliding Door
Product series/model	NC-S 150 STH Lift & Slide
Primary product designator	SD-C35 4000 X 2500 (157 X 98)
Optional secondary designator	Design pressure = 1680 Pa (35.0 psf)
	Negative design pressure = 1680 Pa (35.0 psf)
	Water penetration resistance test pressure = 470 Pa (9.75 psf)
Test completion date	Canadian air infiltration/ exfiltration level = A3 Level (0.045 SCFM/ft ²)
	10/24/2008

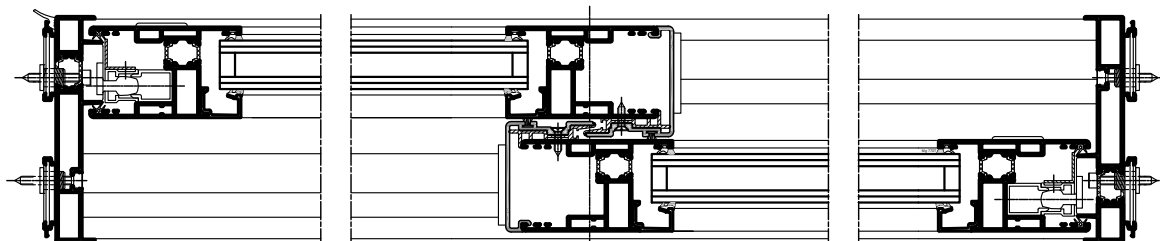
AIR-INS INC.

Report: AI-03031-A1
Report date: July 9th, 2009

Number of pages: 7

1320 boul. Lionel-Boulet
Varennes, Québec, Canada
J3X 1P7
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AAMA
SD-AW40



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PERFORMANCE TESTS IN ACCORDANCE WITH AAMA/WDMA/CSA 101/I.S. 2/A440-05

Product Manufacturer:

METRA SYSTEM INC.
1995, BOUL. INDUSTRIEL
LAVAL, QUÉBEC
H7S 1P6

TEST REPORT SUMMARY OF RESULTS	
Product type	Aluminum Sliding Door
Product series/model	NC-S 150 STH Lift & Slide
Primary product designator	SD-AW40 4000 X 2500 (157 X 98) Design pressure = 1920 Pa (40.0 psf)
Optional secondary designator	Negative design pressure = 1920 Pa (40.0 psf) Water penetration resistance test pressure = 480 Pa (10 psf) Canadian air infiltration/ exfiltration level = A3 Level (0.087 SCFM/ft²)
Test completion date	10/24/2008

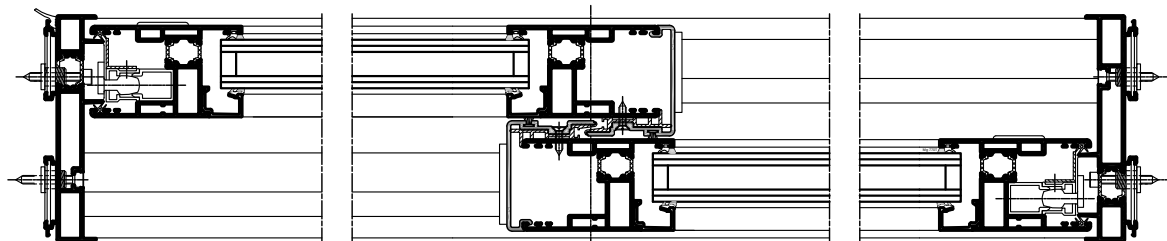
AIR-INS INC.

Report: AI-03031-A2
Report date: July 9th, 2009

Number of pages: 8

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Varennes, Québec, Canada
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CAN
A3 B4 C3



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**PERFORMANCE TESTS CONDUCTED IN
ACCORDANCE WITH CAN/CGSB-82.1-M89**

Product Manufacturer:

**METRA SYSTEM INC.
1995, BOUL. INDUSTRIEL
LAVAL, QUÉBEC
H7S 1P6**

TEST REPORT SUMMARY OF RESULTS	
Product type	Aluminum Sliding Door
Product series/model	NC-S 150 STH Lift & Slide
Overall dimensions	4000 mm x 2500 mm
Air Tightness	A3
Water Tightness	B4
Wind Load Resistance	C3
Test Completion Date	10/24/2008

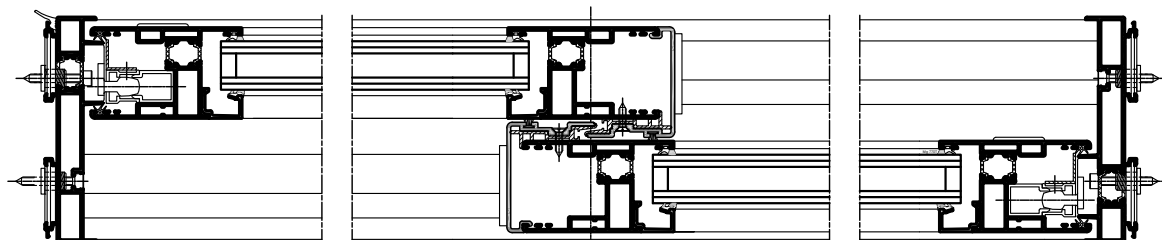
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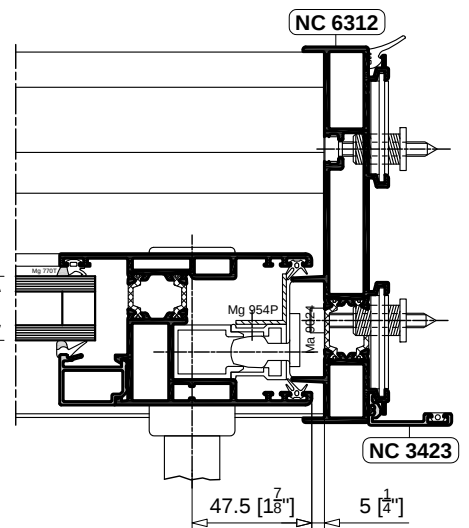
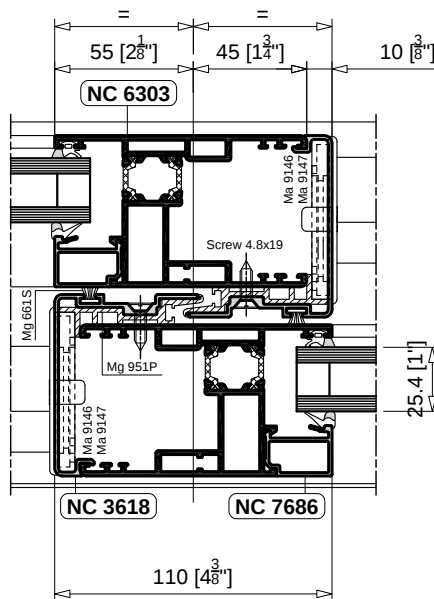
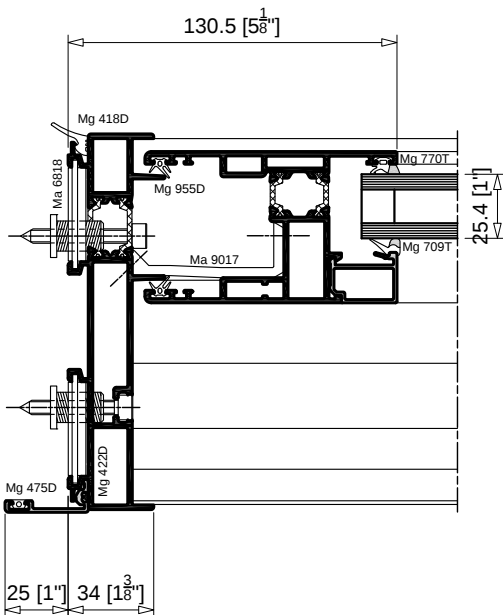
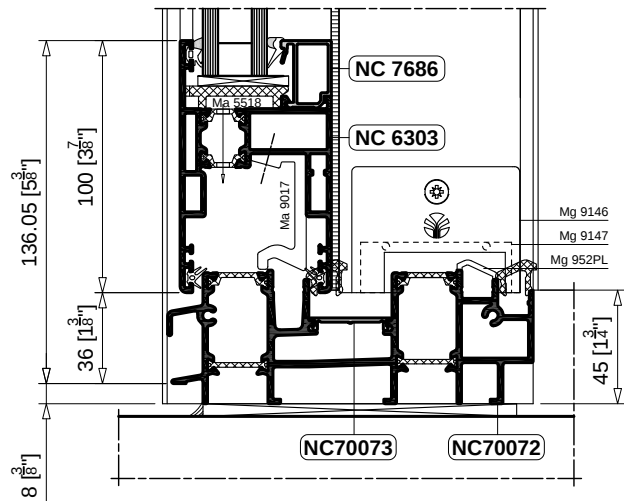
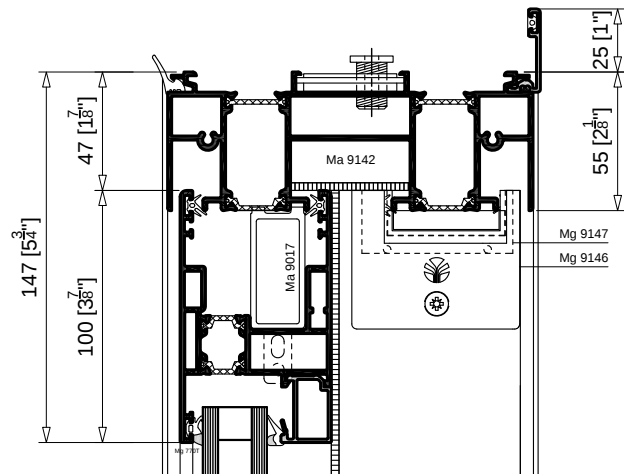
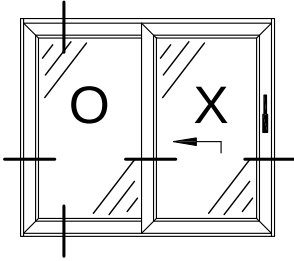
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Report date: July 9th, 2009**

Number of pages: 8

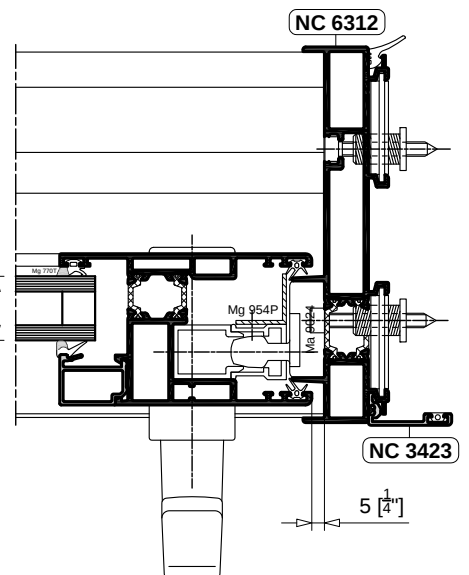
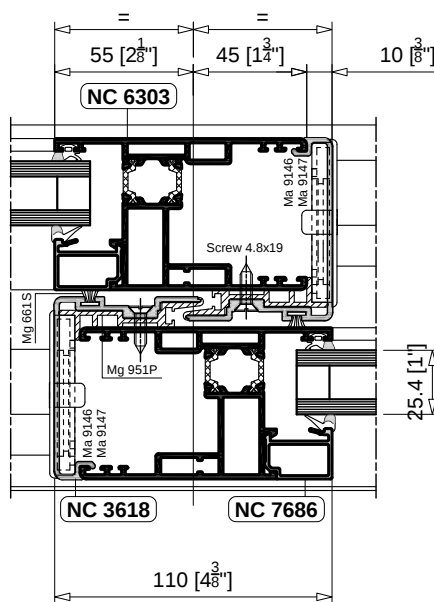
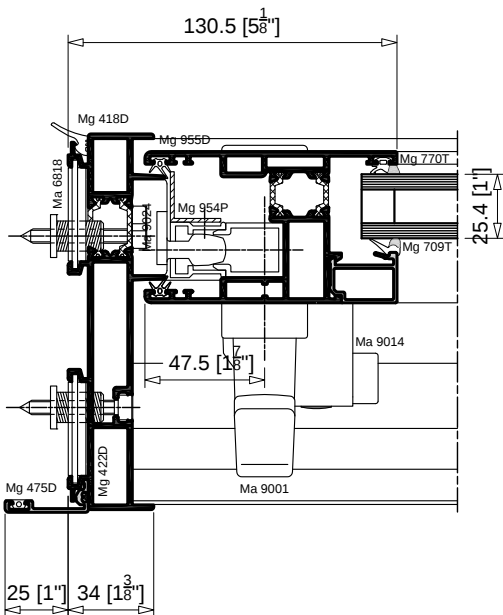
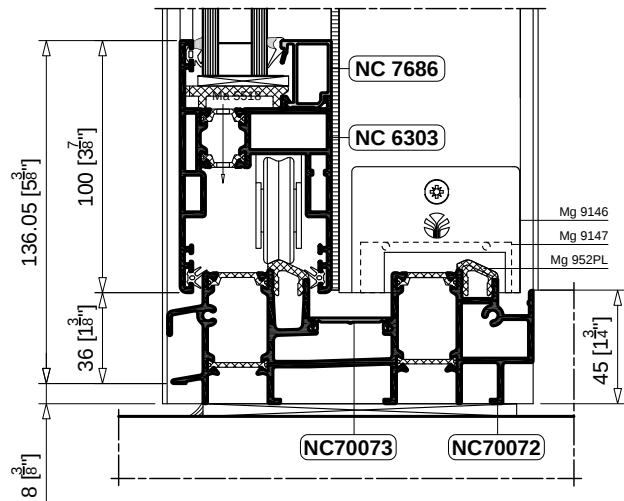
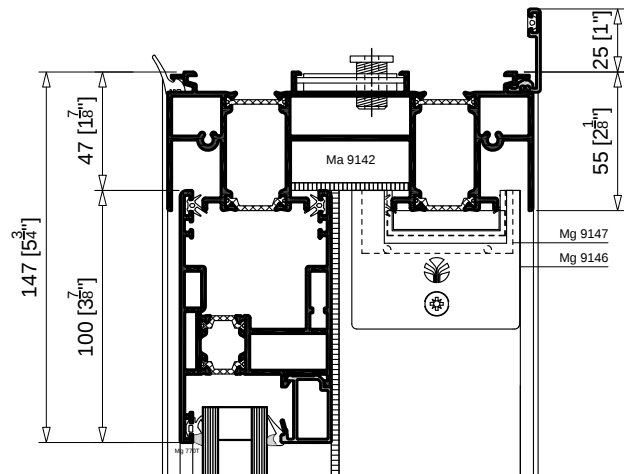
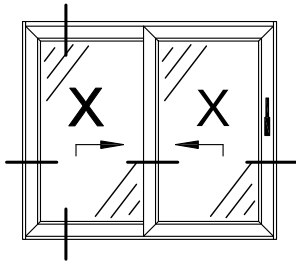
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Varennes, Québec, Canada
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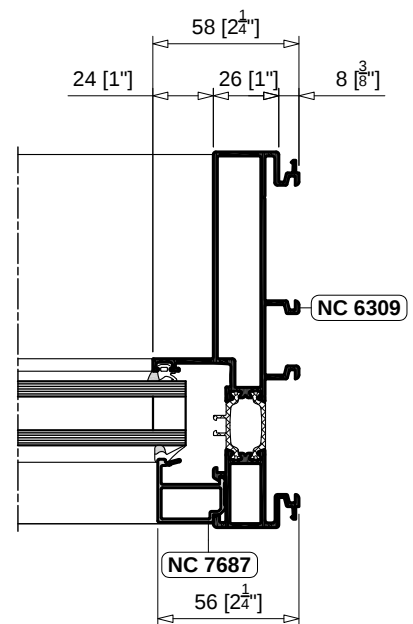
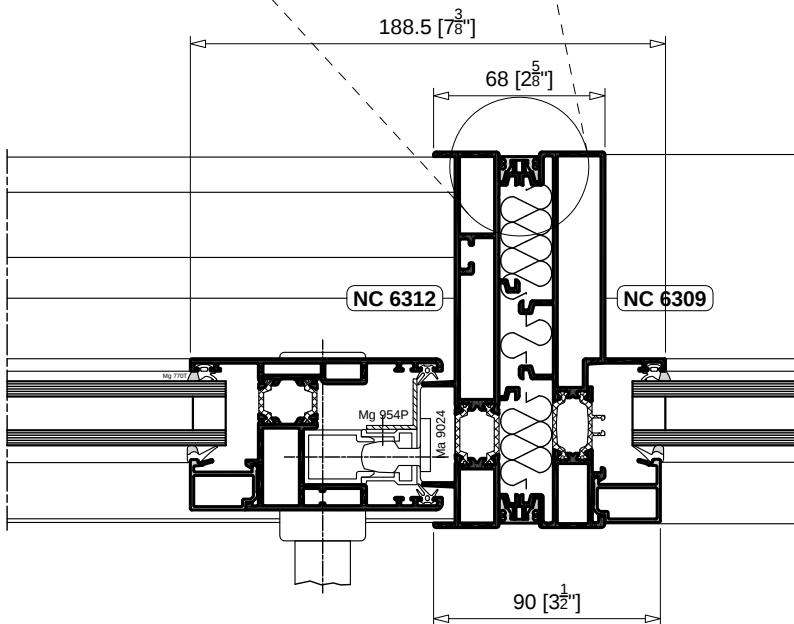
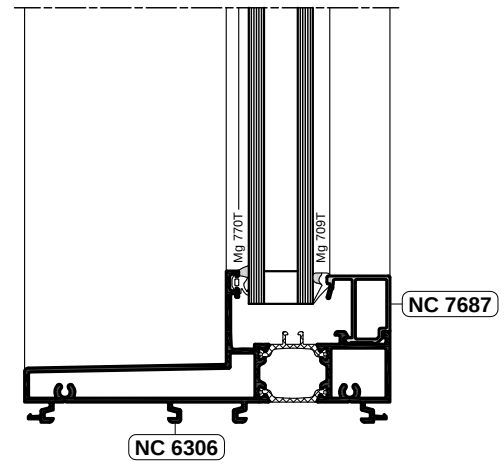
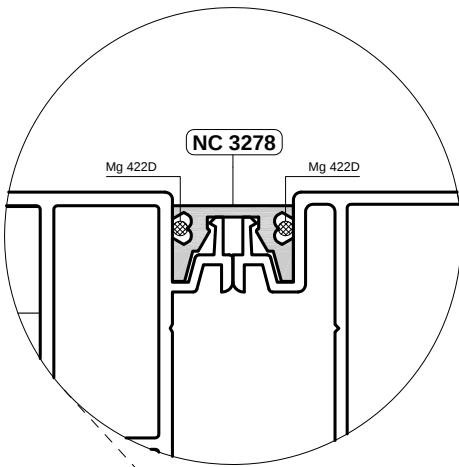
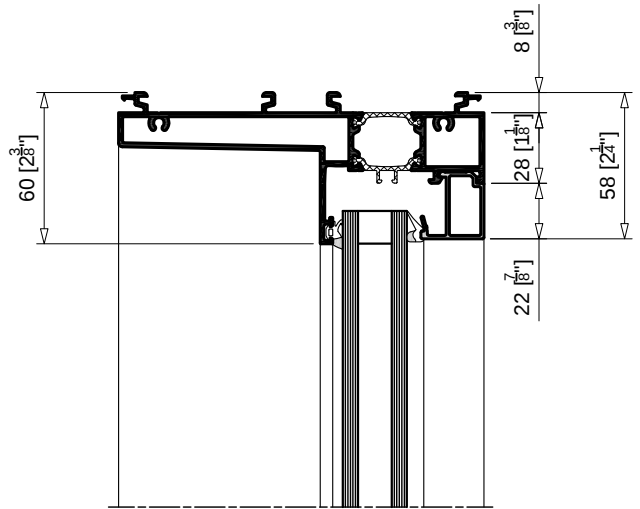
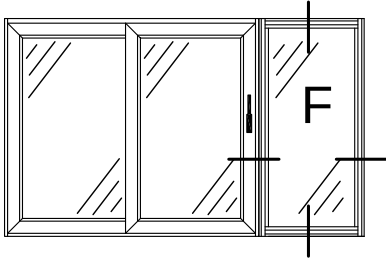




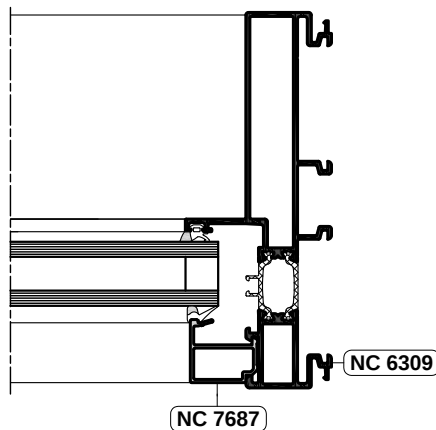
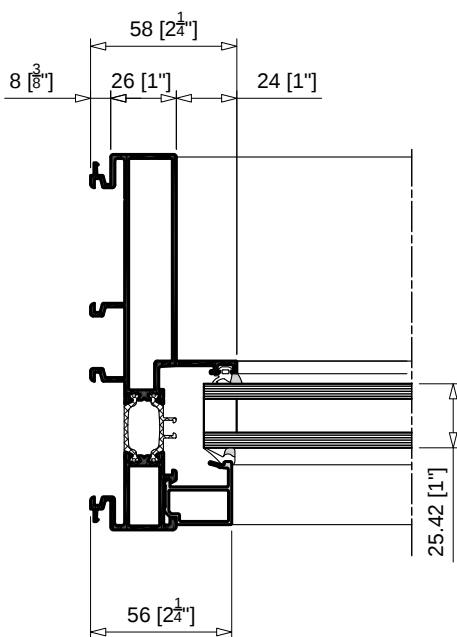
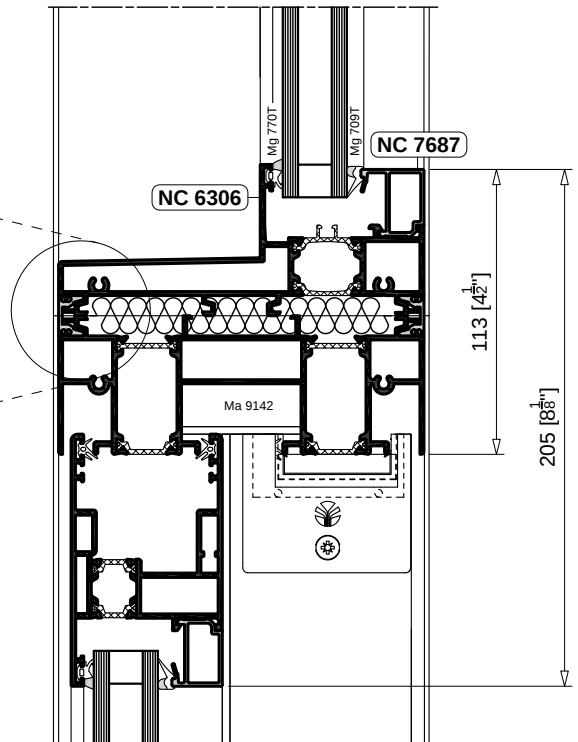
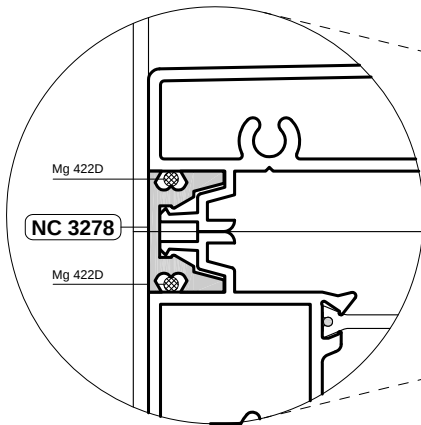
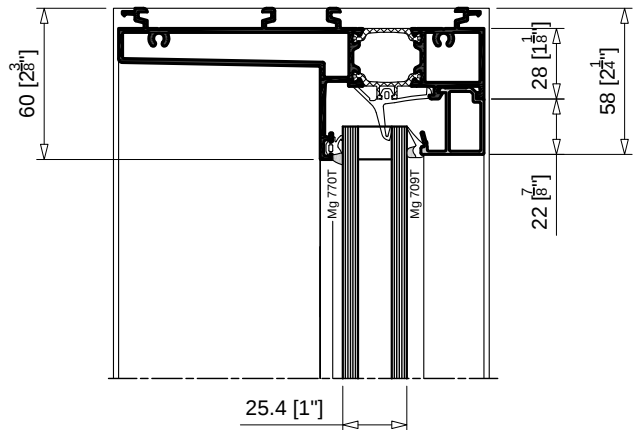
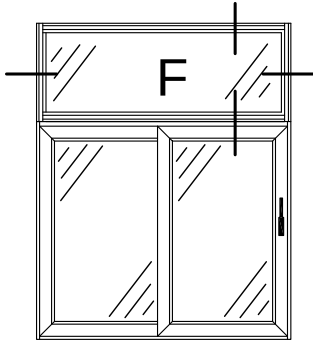
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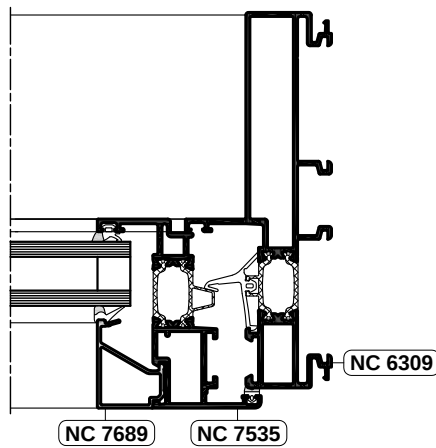
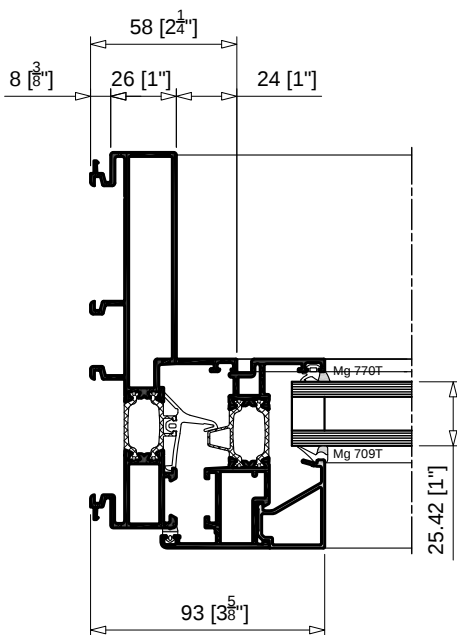
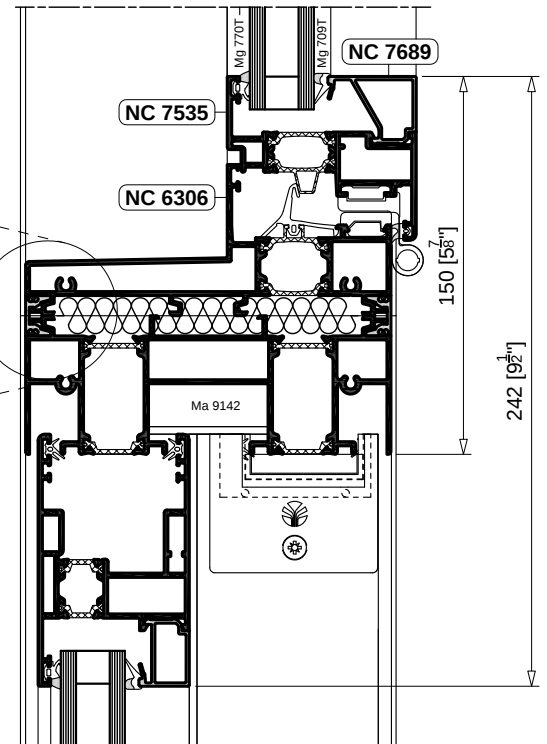
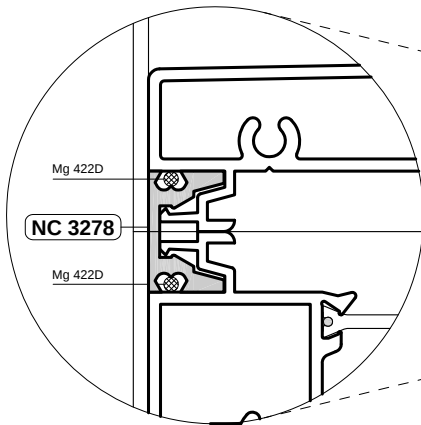
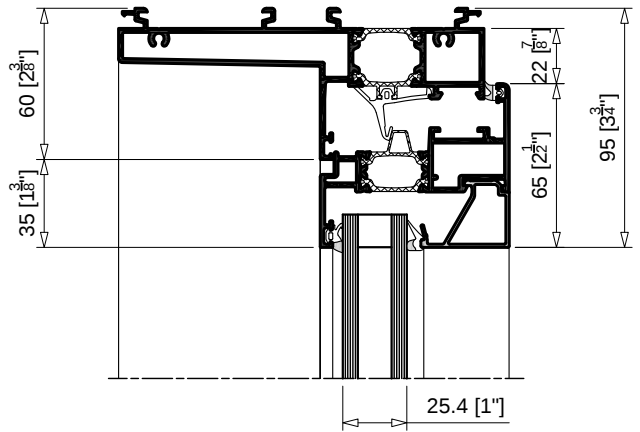
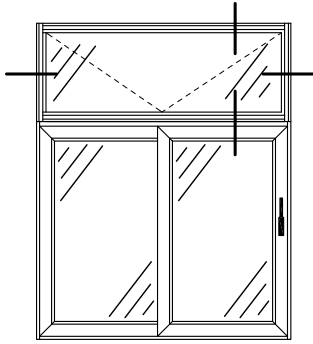
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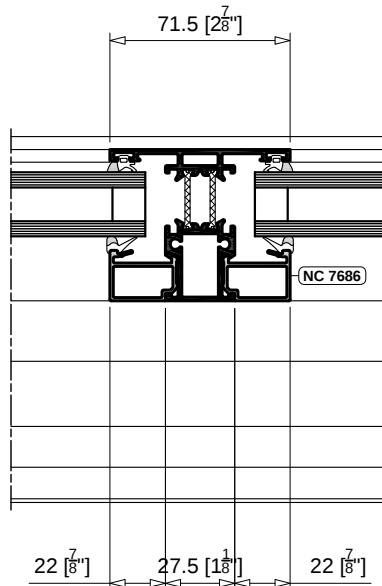
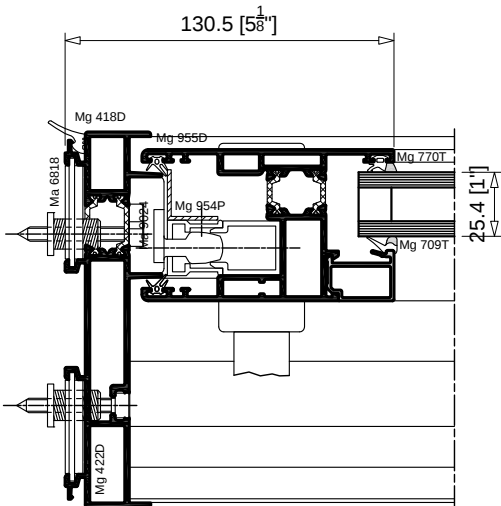
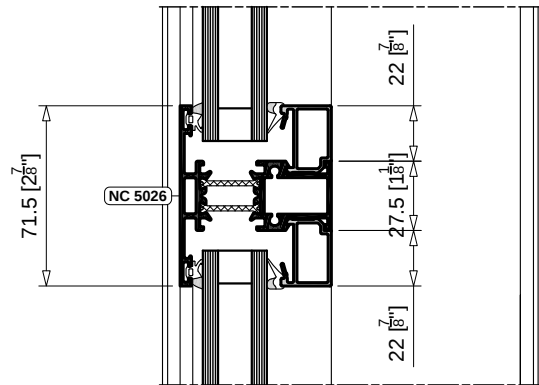
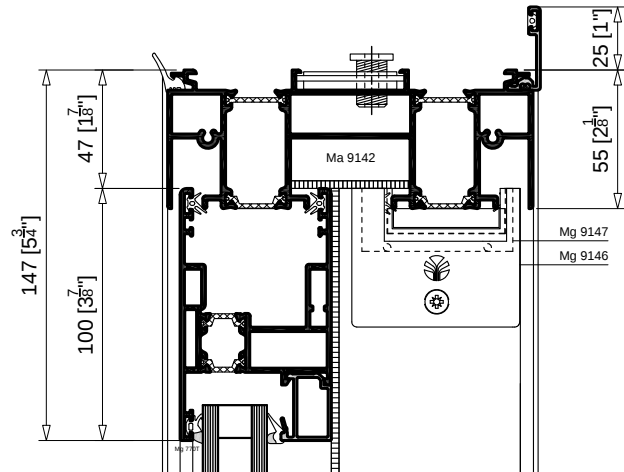
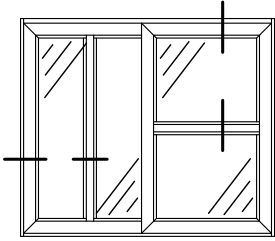
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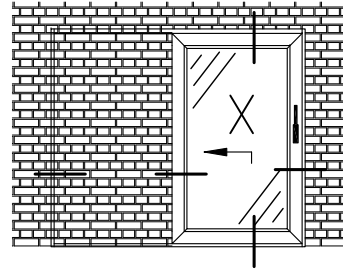
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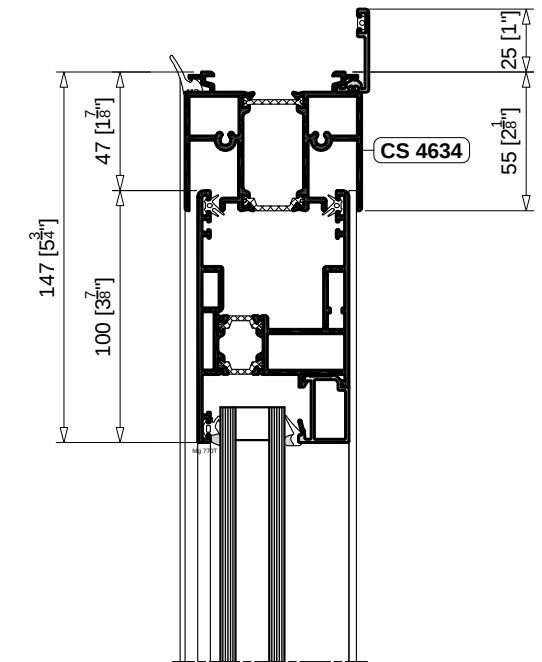
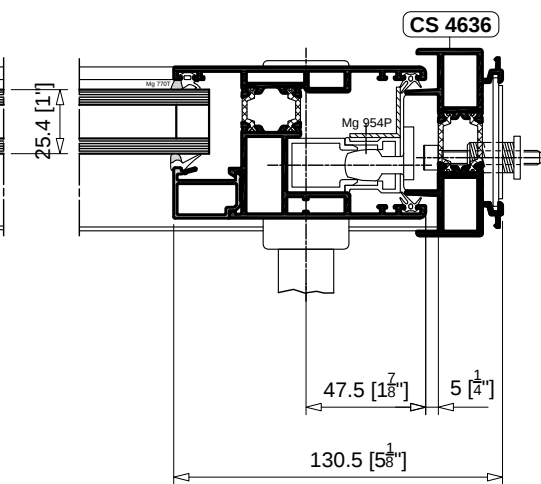
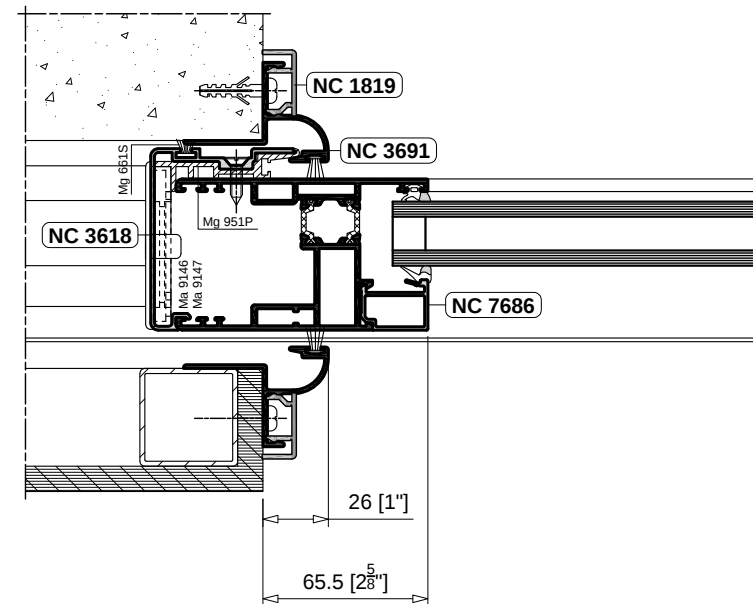
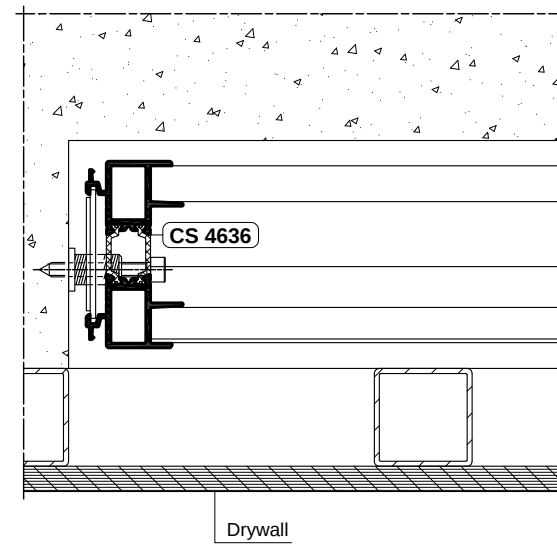
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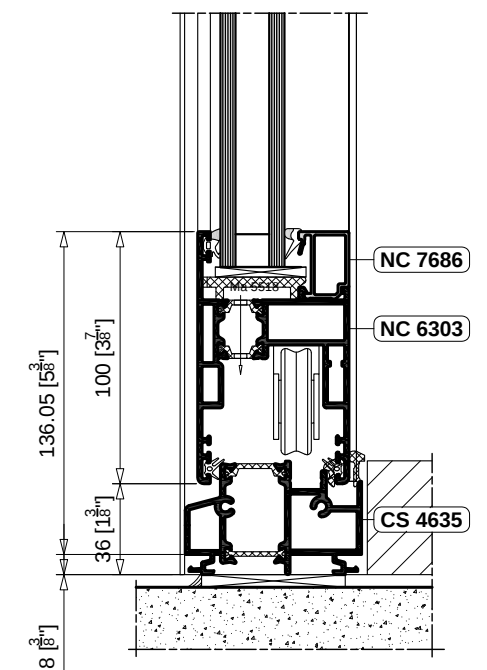
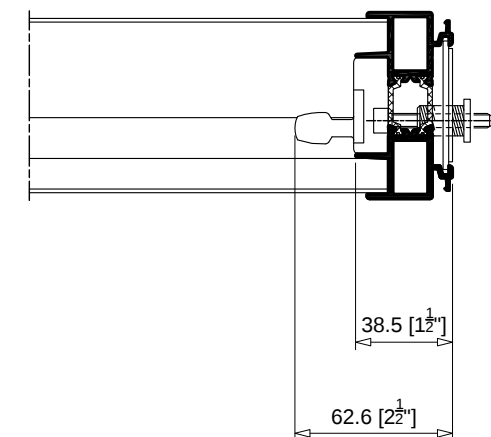
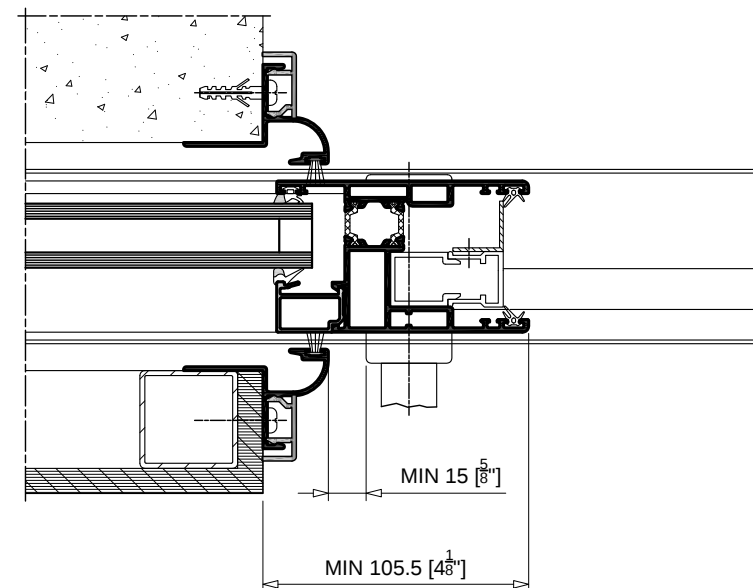
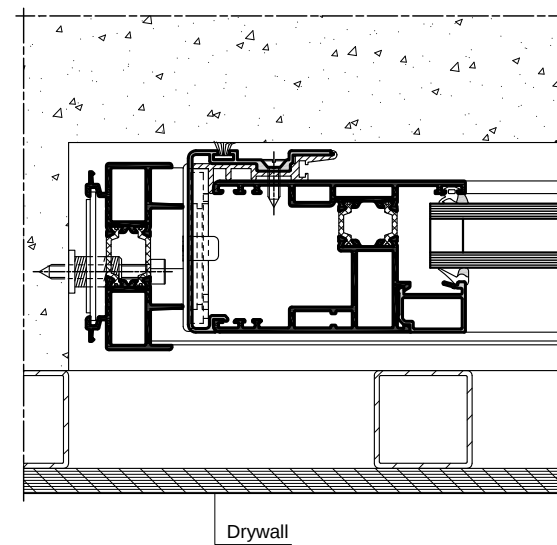
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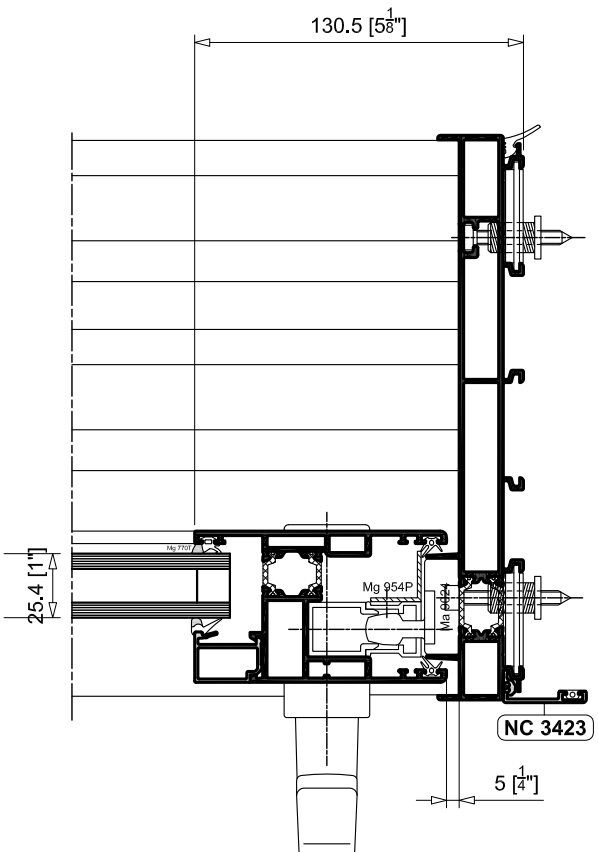
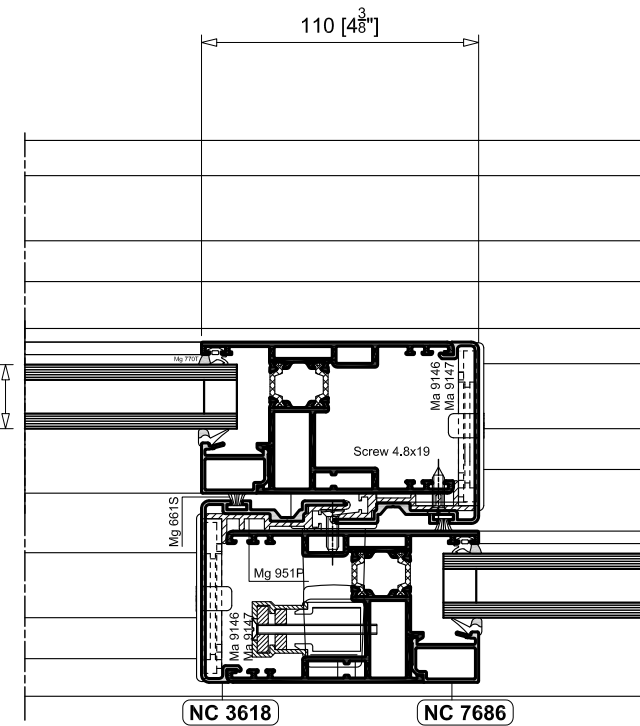
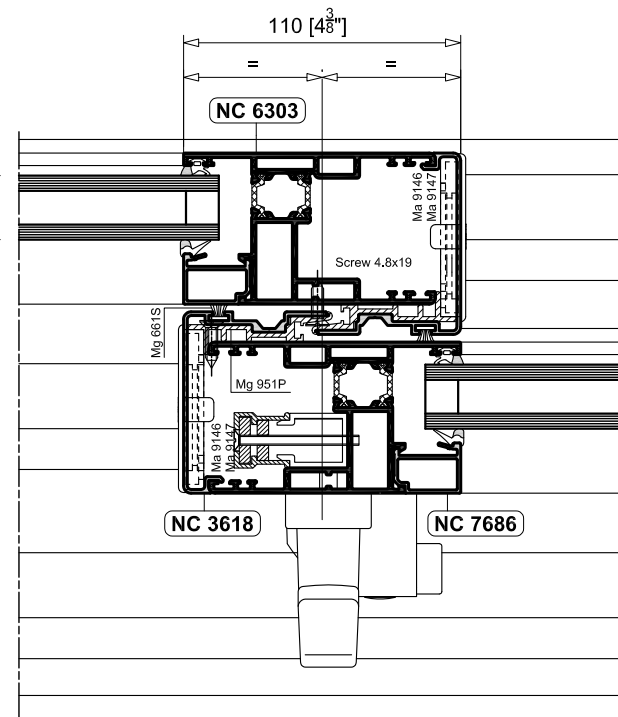
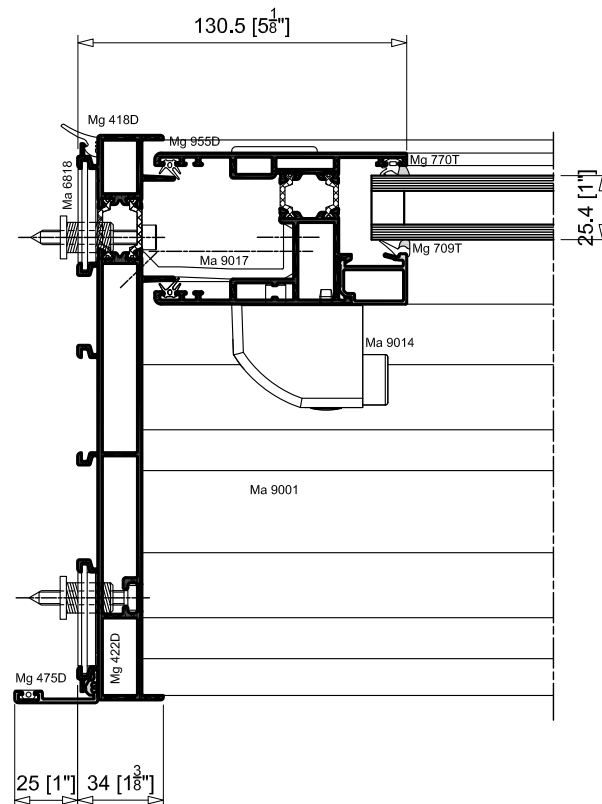
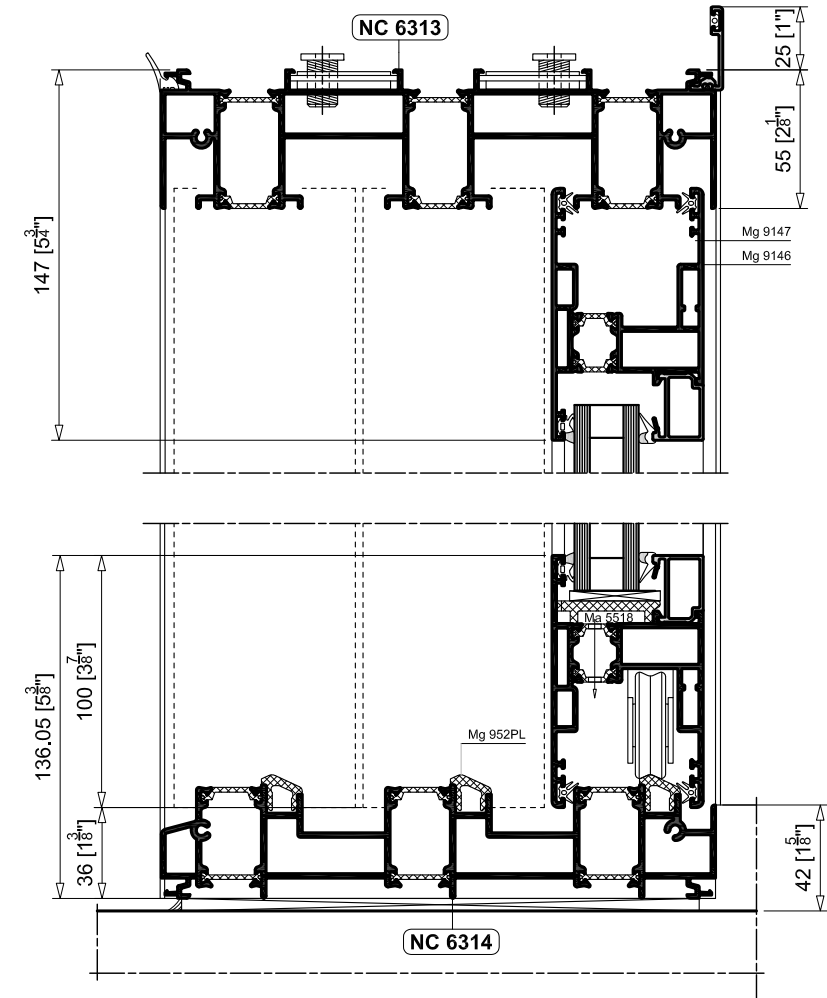
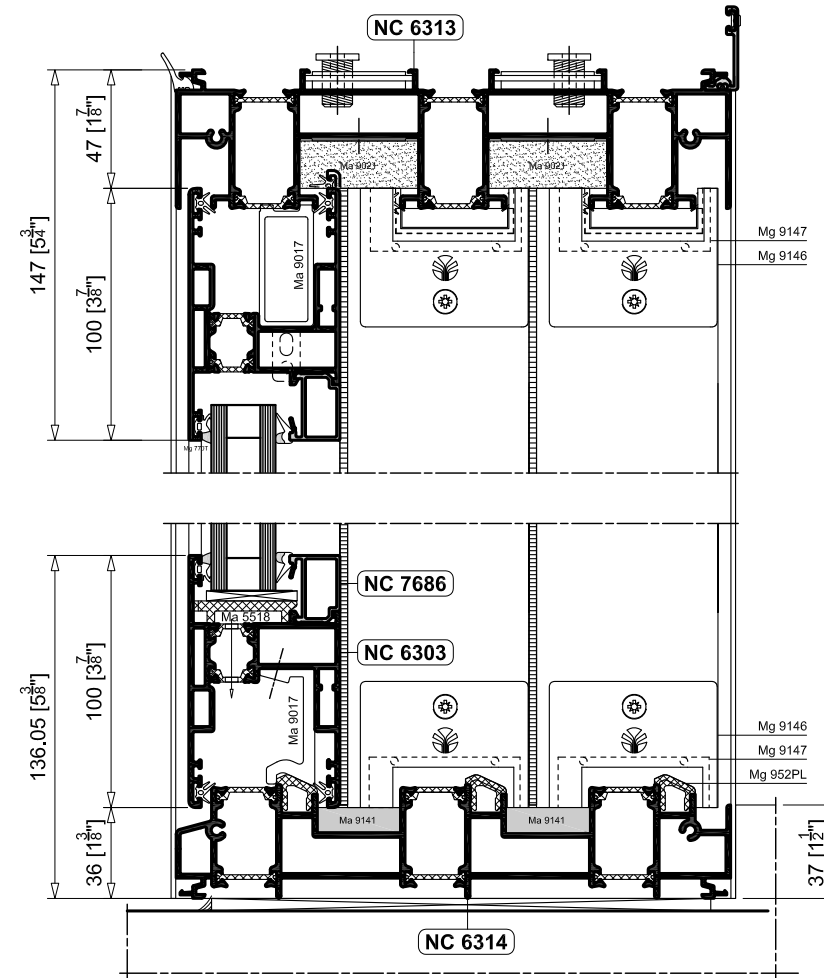
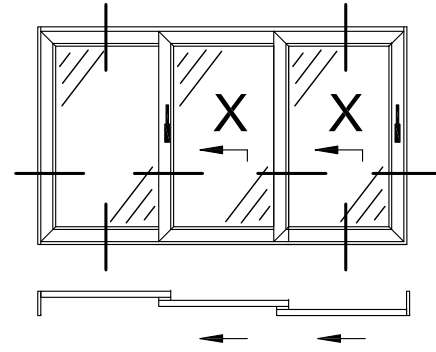


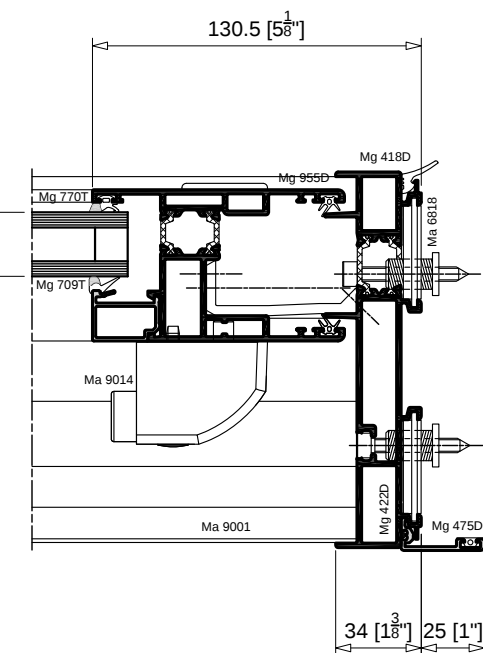
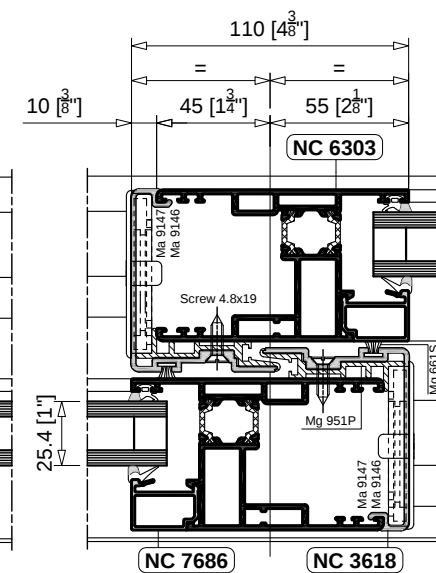
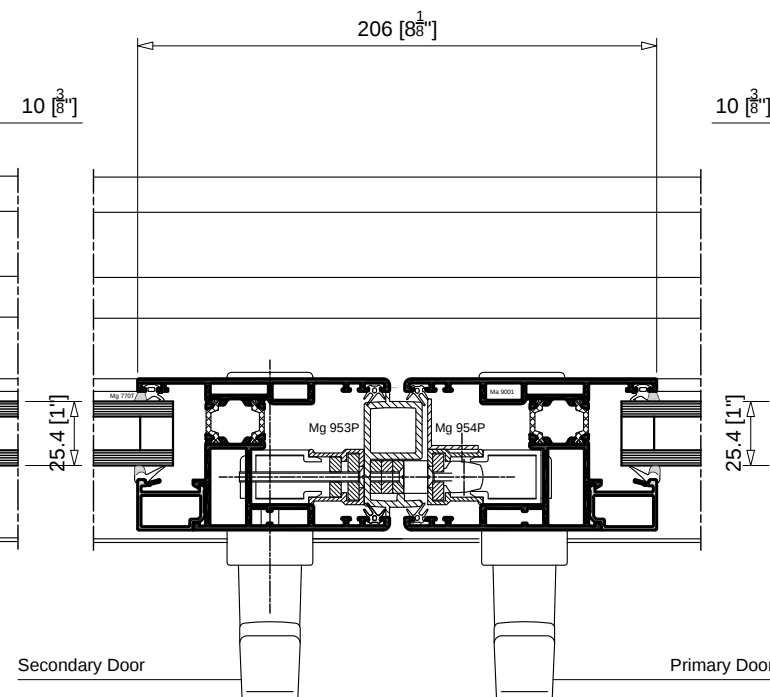
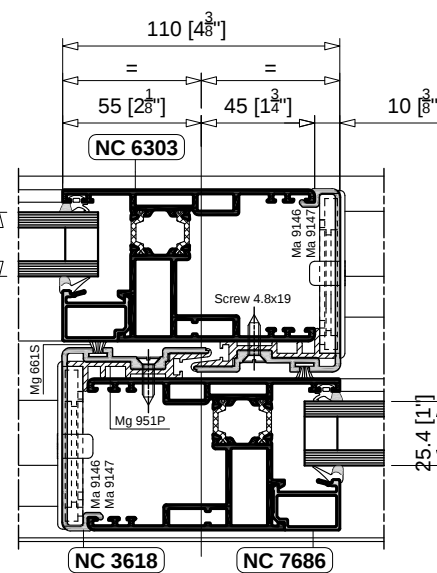
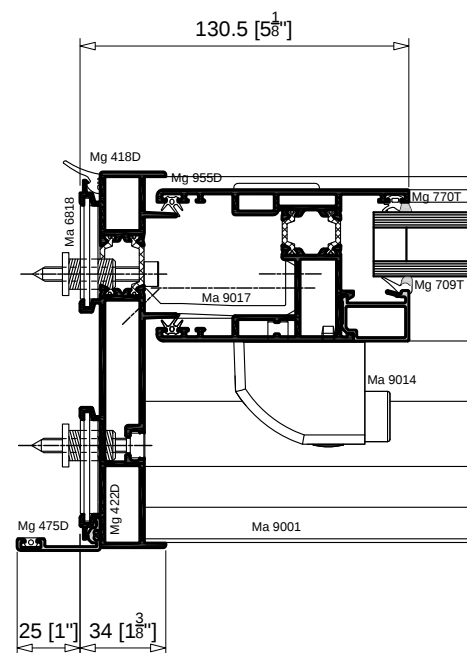
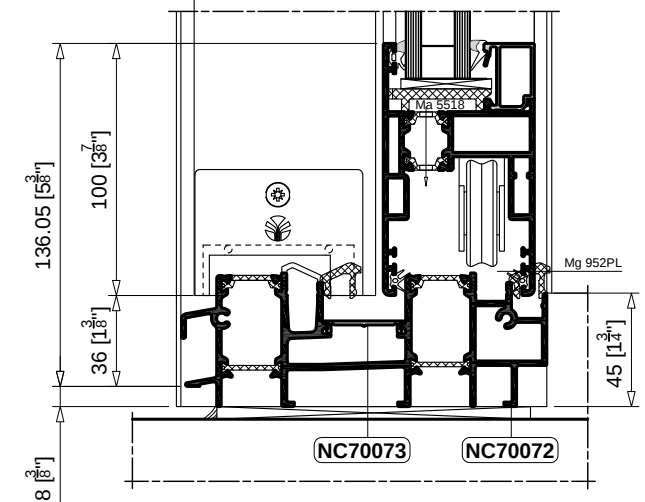
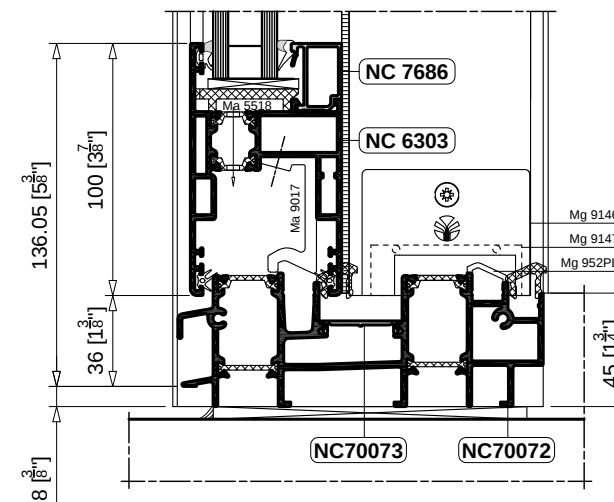
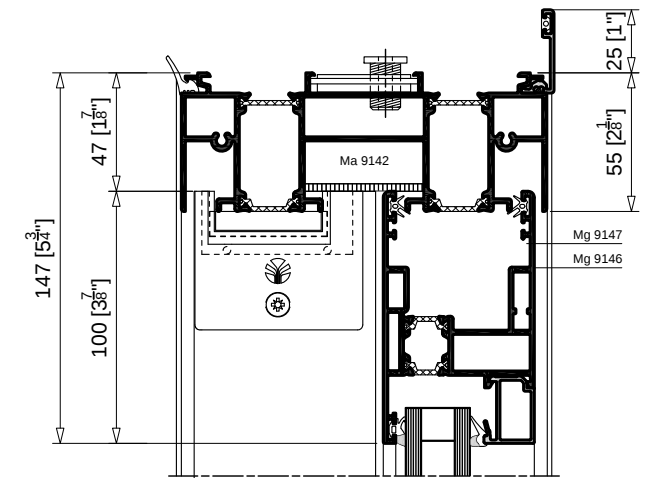
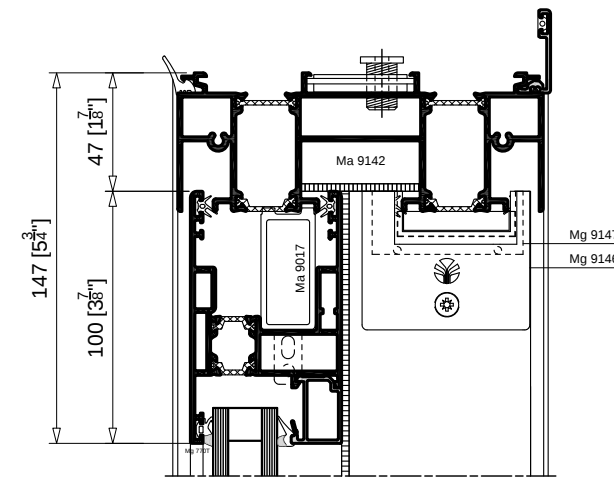
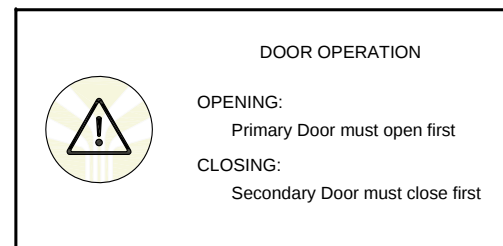
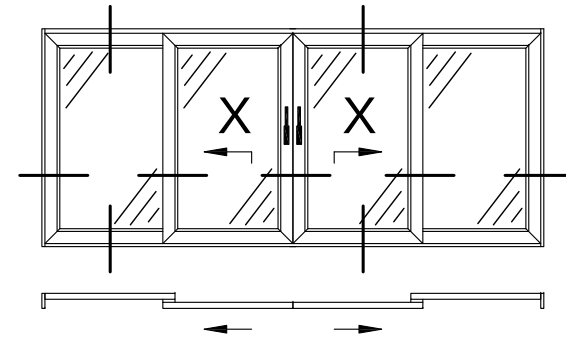
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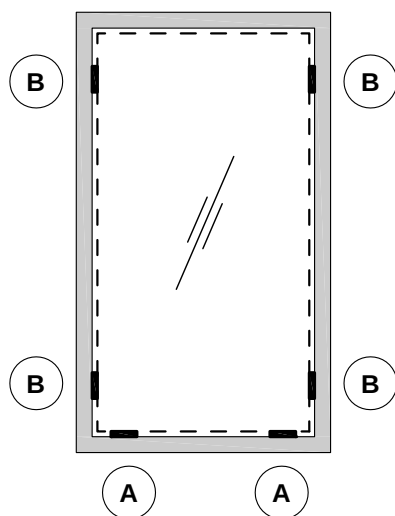


OPEN POSITION







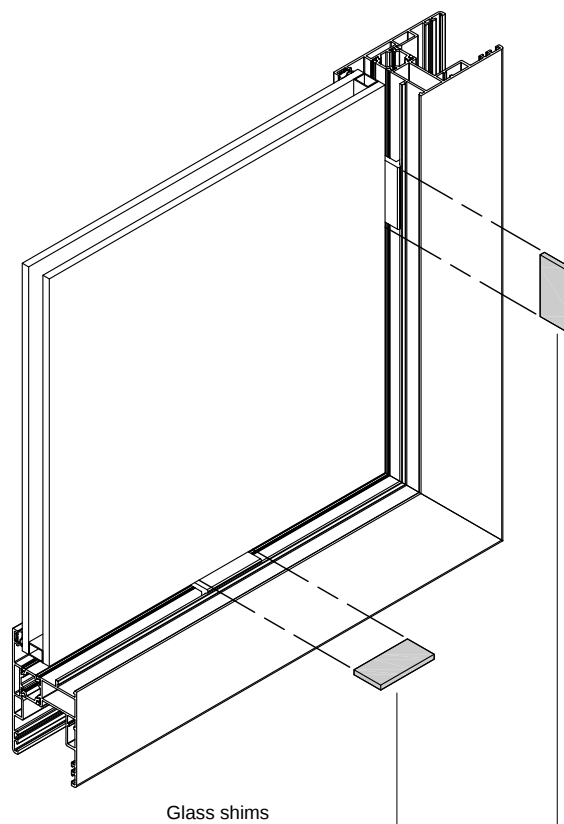
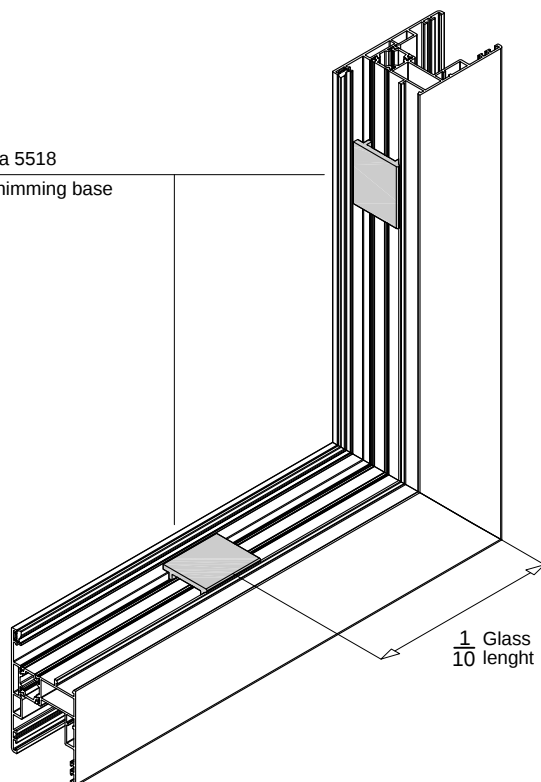
GLAZING
FIXED SASH
OPERABLE SASH

A
SETTING BLOCKS

To be positioned as shown
Distance from the edge of the glass:
 $\frac{1}{10}$ of glass length


B
EDGE BLOCKS

To ensure glass stability

Ma 5518
Shimming base

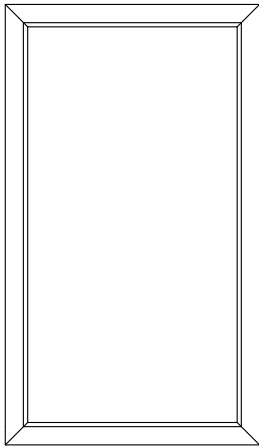


Glass shims
Not supplied by Metra

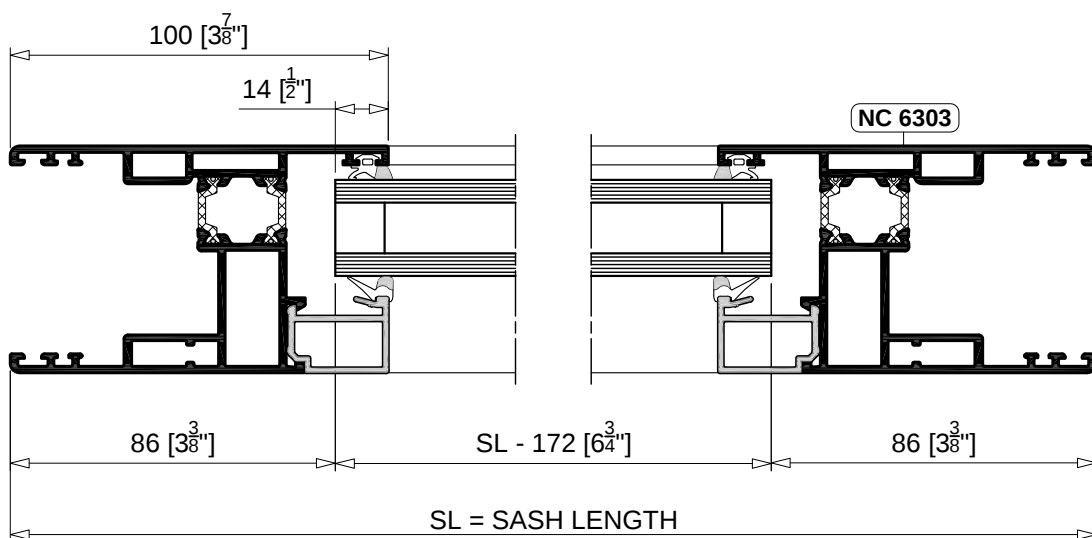
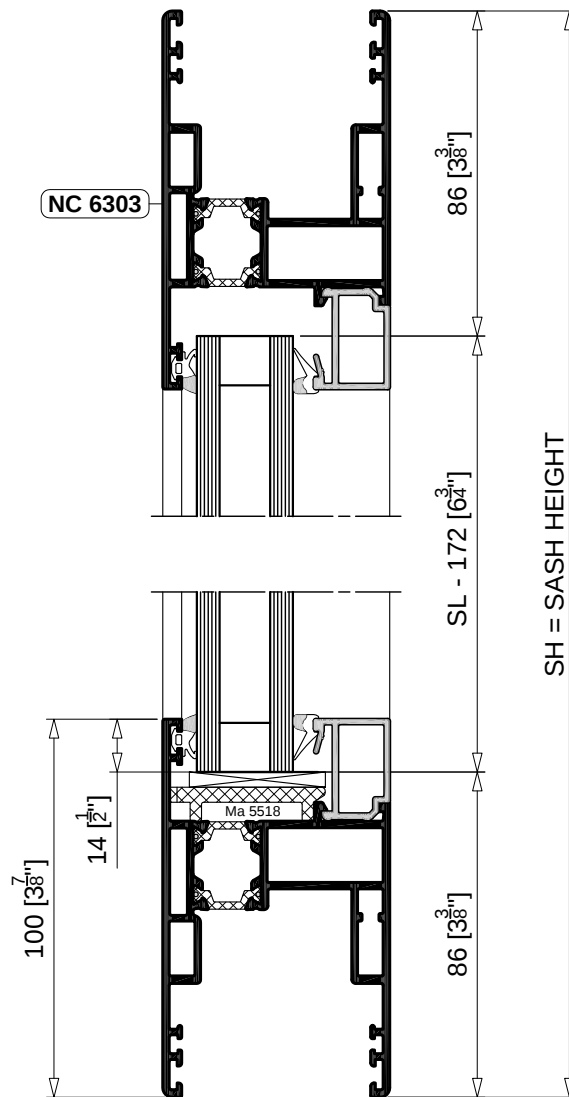


GLAZING

FIXED SASH
OPERABLE SASH
ALL TRACK SOLUTIONS

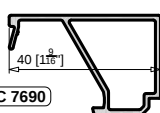
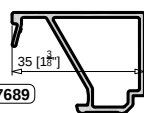
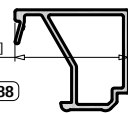
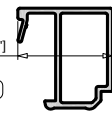
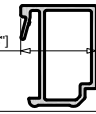
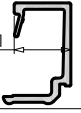
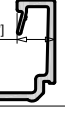


GLASS CUTTING LIST
IS RELATED TO
SASH DIMENSIONS



NOTICE: THEORETICAL DIMENSIONS TO BE VERIFIED BEFORE MANUFACTURING

mm
[inches]
SCALE 1:2

Outside Gasket Glass Thickness	Inside Gasket	Glass Stop Size	Glass Stop
B 4 $\frac{3}{16}$ "	F	40 $\frac{9}{16}$ "	 NC 7690
B 5 $\frac{1}{4}$ "	F		
B 6 $\frac{1}{2}$ "	E		
B 7 $\frac{3}{4}$ "	E		
B 8 $\frac{1}{2}$ "	D		
B 9 $\frac{3}{8}$ "	F	35 $\frac{3}{8}$ "	 NC 7689
B 10 $\frac{1}{2}$ "	F		
B 11 $\frac{3}{4}$ "	E		
B 12 $\frac{1}{2}$ "	E		
B 13 $\frac{1}{2}$ "	D	30 $\frac{3}{16}$ "	 NC 7688
B 14 $\frac{1}{4}$ "	F		
B 15 $\frac{1}{8}$ "	F		
B 16 $\frac{1}{8}$ "	E		
B 17 $\frac{1}{8}$ "	E		
B 18 $\frac{1}{8}$ "	D	25 1"	 NC 7687
B 19 $\frac{3}{4}$ "	F		
B 20 $\frac{1}{2}$ "	F		
B 21 $\frac{1}{2}$ "	E		
B 22 $\frac{1}{2}$ "	E		
B 23 $\frac{1}{2}$ "	D	20 $\frac{13}{16}$ "	 NC 7686
B 24 $\frac{15}{16}$ "	F		
B 25 1"	F		
B 26 1"	E		
B 27 $\frac{11}{16}$ "	E		
B 28 $\frac{11}{16}$ "	D	15 $\frac{9}{16}$ "	 NC 7610
B 29 $\frac{11}{16}$ "	F		
B 30 $\frac{11}{16}$ "	F		
B 31 $\frac{1}{4}$ "	E		
B 32 $\frac{1}{4}$ "	E		
B 33 $\frac{11}{16}$ "	D	10 $\frac{3}{8}$ "	 NC 7609
B 34 $\frac{11}{16}$ "	F		
B 35 $\frac{1}{8}$ "	F		
B 36 $\frac{11}{16}$ "	E		
B 37 $\frac{11}{16}$ "	E		
B 38 $\frac{11}{16}$ "	D	5 $\frac{3}{16}$ "	 NC 7608
B 39 $\frac{11}{16}$ "	F		
B 40 $\frac{11}{16}$ "	F		
B 41 $\frac{1}{8}$ "	E		
B 42 $\frac{11}{16}$ "	E		
B 43 $\frac{11}{16}$ "	D		

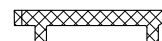

NOTICE:

Indicated Dimensions
are theoretical.

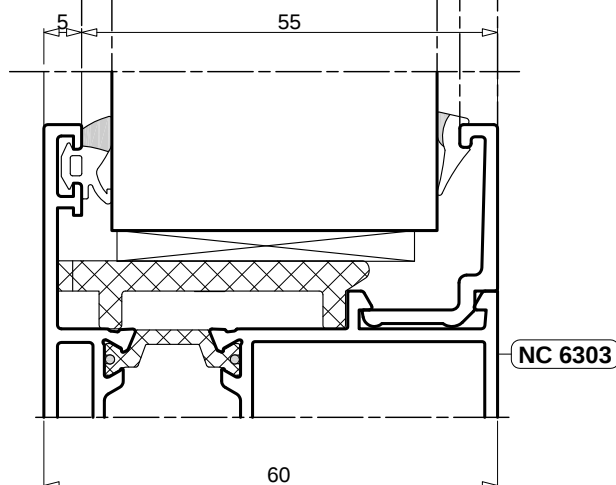
Glazing and Profiles real
dimensions are related to
production tollerances and must
be always verified.

Eventual differences between real
and theoretical dimensions shall be
corrected by choosing a different
Inside Gasket.

Ma 5518



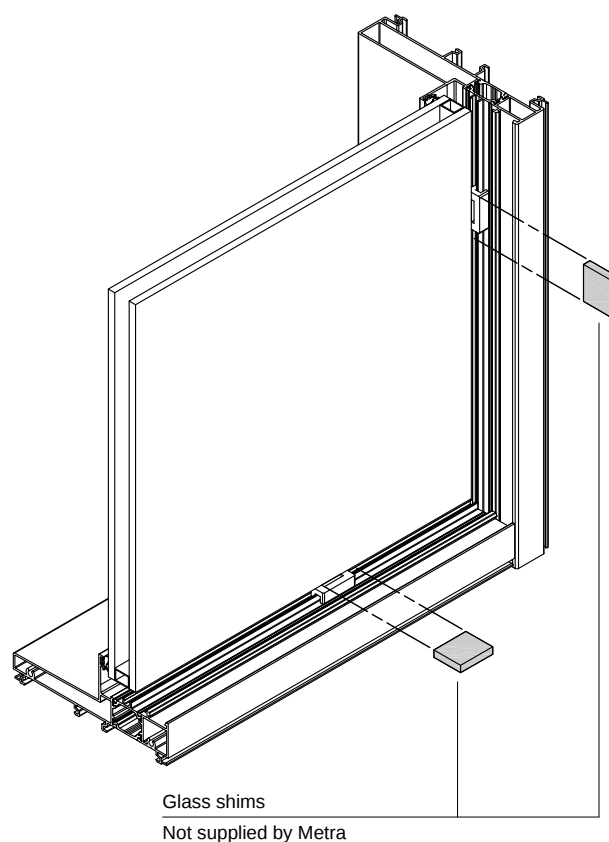
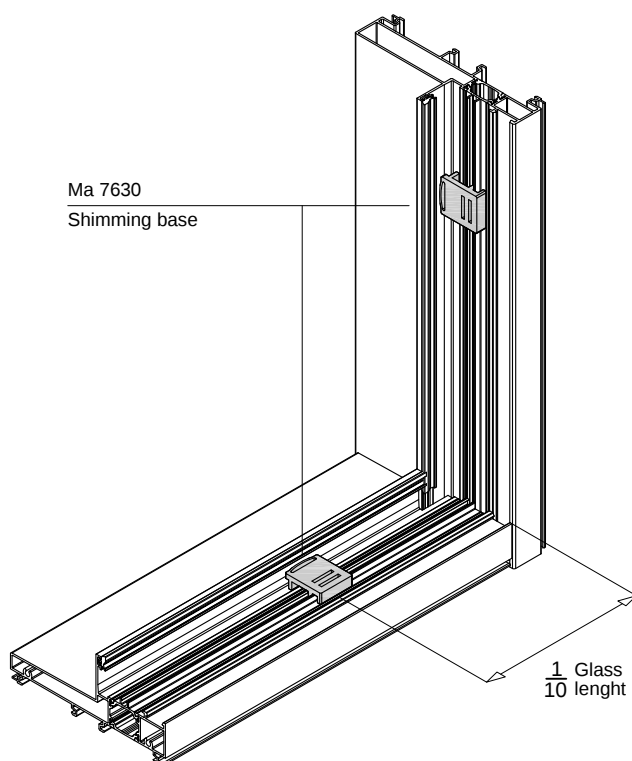
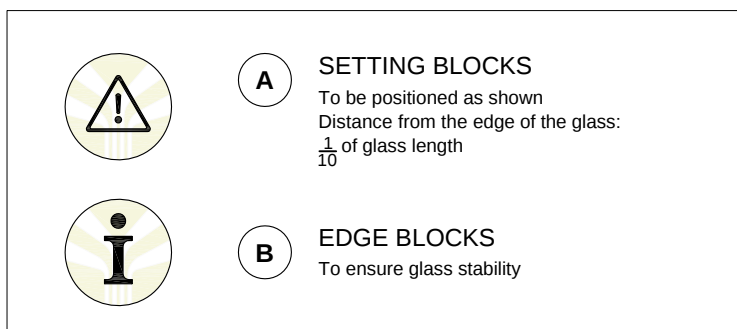
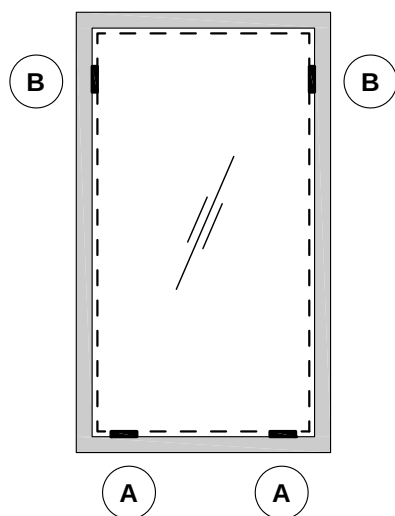
Glass Shimming Base



	Code	Ref.	Dimension
Outside Gasket	 Mg 708T	A	3 $\frac{1}{8}$ " to 3.5 $\frac{1}{8}$ "
	 Mg 770T	B	4 $\frac{3}{16}$ "
	 Mg 761D	C	4 $\frac{3}{16}$ "
Inside Gasket	 Mg 707T	D	3 $\frac{1}{8}$ " to 4 $\frac{3}{16}$ "
	 Mg 709T	E	4 $\frac{3}{16}$ " to 5.5 $\frac{3}{16}$ "
	 Mg 710T	F	5.5 $\frac{3}{16}$ " to 7 $\frac{1}{4}$ "

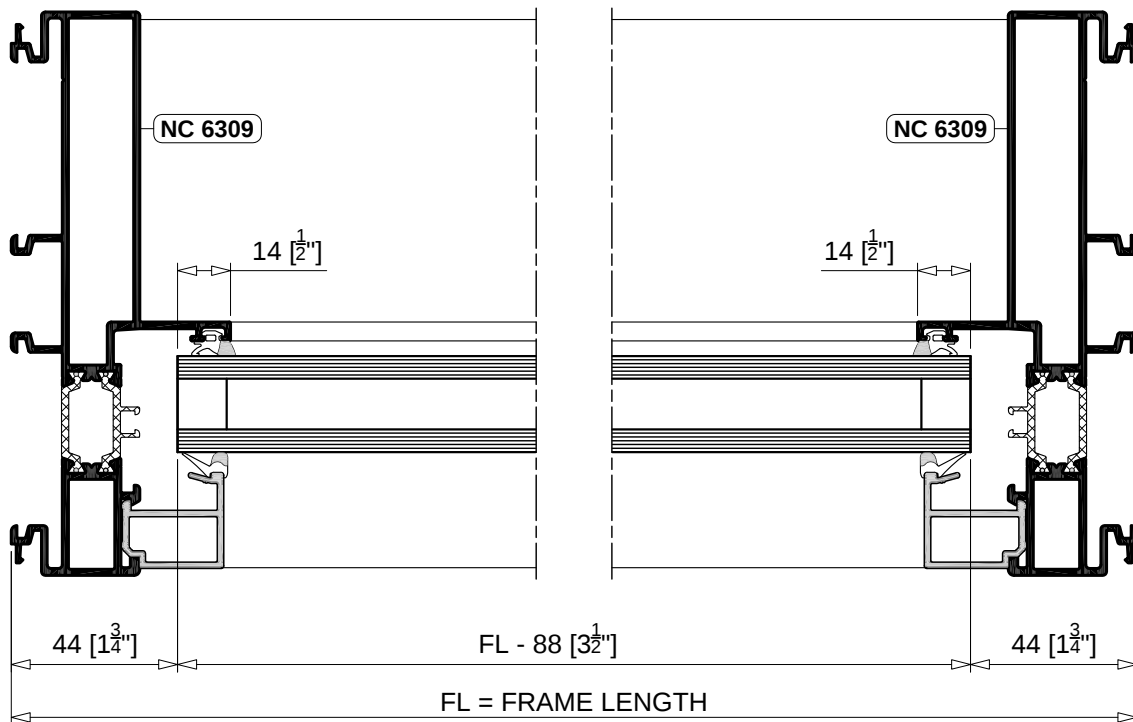
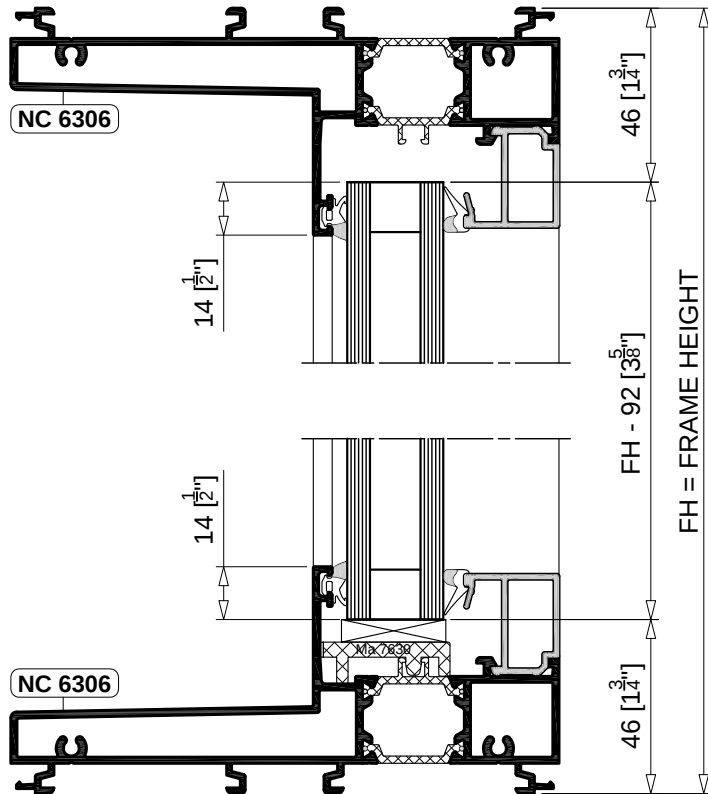
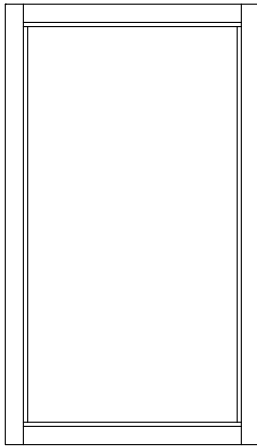
Scale 1:2
mm (inches)

GLAZING
PICTURE WINDOW
SIDELITE



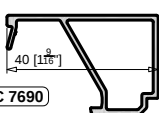
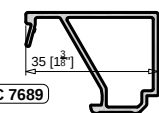
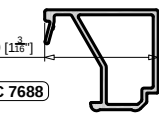
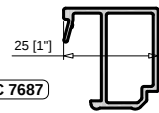
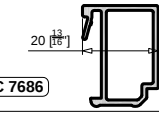
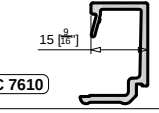
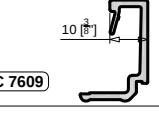


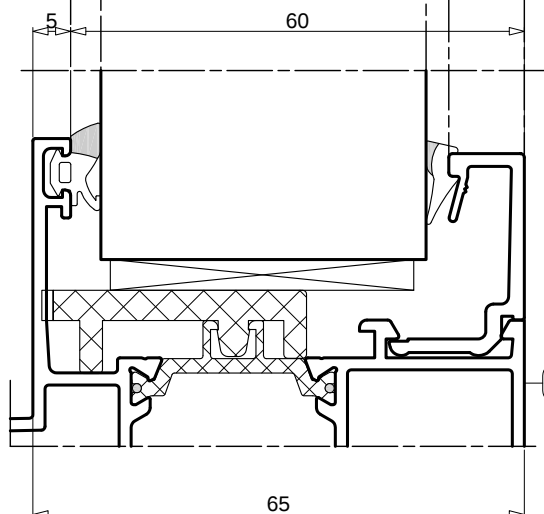
GLAZING
PICTURE WINDOW
SIDELITE



NOTICE: THEORETICAL DIMENSIONS TO BE VERIFIED BEFORE MANUFACTURING

mm
[inches]
SCALE 1:2

Outside Gasket	Glass Thickness	Inside Gasket	Glass Stop Size	Glass Stop
B	9 $\frac{3}{8}$ "	F	40 [11 $\frac{3}{16}$ "	 NC 7690
B	10 $\frac{3}{8}$ "	F		
B	11 $\frac{3}{8}$ "	E		
B	12 $\frac{3}{8}$ "	E		
B	13 $\frac{3}{8}$ "	D		
B	14 $\frac{3}{8}$ "	F	35 [1 $\frac{3}{8}$ "	 NC 7689
B	15 $\frac{3}{8}$ "	F		
B	16 $\frac{3}{8}$ "	E		
B	17 $\frac{3}{8}$ "	E		
B	18 $\frac{3}{8}$ "	D		
B	19 $\frac{3}{8}$ "	F	30 [1 $\frac{1}{16}$ "	 NC 7688
B	20 $\frac{3}{8}$ "	F		
B	21 $\frac{3}{8}$ "	E		
B	22 $\frac{3}{8}$ "	E		
B	23 $\frac{3}{8}$ "	D		
B	24 $\frac{3}{8}$ "	F	25 [1"	 NC 7687
B	25 [1"	F		
B	26 [1"	E		
B	27 [1 $\frac{1}{16}$ "	E		
B	28 [1 $\frac{1}{8}$ "	D		
B	29 [1 $\frac{1}{8}$ "	F	20 [1 $\frac{13}{16}$ "	 NC 7686
B	30 [1 $\frac{1}{8}$ "	F		
B	31 [1 $\frac{1}{4}$ "	E		
B	32 [1 $\frac{1}{4}$ "	E		
B	33 [1 $\frac{1}{2}$ "	D		
B	34 [1 $\frac{5}{8}$ "	F	15 [$\frac{9}{16}$ "	 NC 7610
B	35 [1 $\frac{5}{8}$ "	F		
B	36 [1 $\frac{7}{8}$ "	E		
B	37 [1 $\frac{7}{8}$ "	E		
B	38 [1 $\frac{7}{8}$ "	D		
B	39 [1 $\frac{9}{8}$ "	F	10 [$\frac{3}{8}$ "	 NC 7609
B	40 [1 $\frac{9}{8}$ "	F		
B	41 [1 $\frac{9}{8}$ "	E		
B	42 [1 $\frac{9}{8}$ "	E		
B	43 [1 $\frac{11}{8}$ "	D		



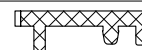
NOTICE:

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are theoretical.

Glazing and Profiles real
dimensions are related to
production tollerances and must
be always verified.

Eventual differences between real
and theoretical dimensions shall be
corrected by choosing a different
Inside Gasket.

Ma 7630



Glass Shimming Base

	Code	Ref.	Dimension
Outside Gasket	Mg 708T	A	3 $\frac{1}{8}$ " to 3.5 $\frac{1}{8}$ "
	Mg 770T	B	4 $\frac{3}{16}$ "
	Mg 761D	C	4 $\frac{3}{16}$ "
Inside Gasket	Mg 707T	D	3 $\frac{1}{8}$ " to 4 $\frac{3}{16}$ "
	Mg 709T	E	4 $\frac{3}{16}$ " to 5.5 $\frac{3}{16}$ "
	Mg 710T	F	5.5 $\frac{3}{16}$ " to 7 $\frac{1}{4}$ "

Scale 1:2
mm [inches]



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