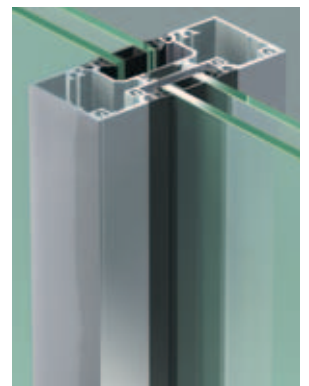


NC 115 SF

Architectural Envelope Storefront System



CATALOGUE RELEASE

CURRENT RELEASE

2009

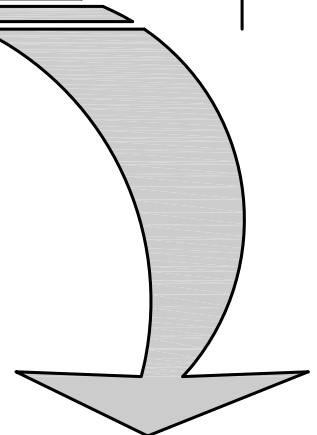
11

Previous version:

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 115 SF



Features

- 6063 T5 Aluminum Alloy Frame
- Shop or On-Site Glazing
- Frame Depth 114 mm [4.5"]
- Captured Glazing
- Various Glass Size
- Weather Stripping: EPDM Gaskets
- Thermal Barrier: Polyamide
- Straight cut 90° with Fasteners
- Custom Color
- Painted or Anodizing Finish
- Dual Finish Available
- Durable Components

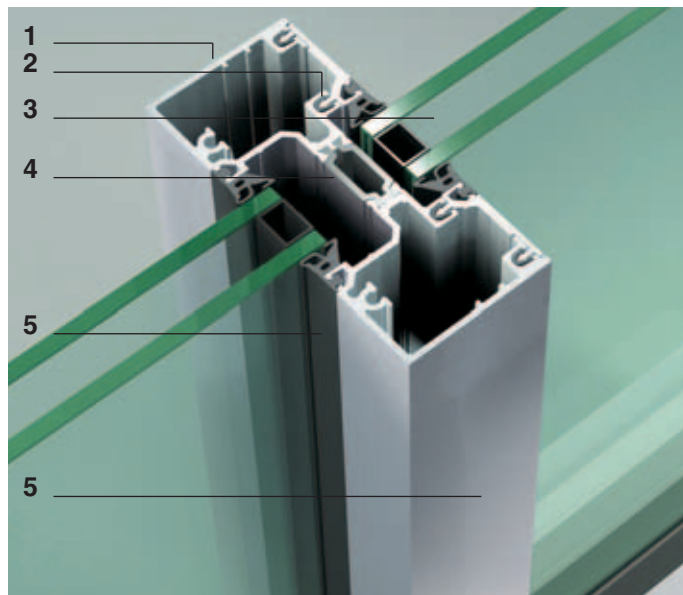
Benefits

- Simple Installation
- Acoustic Insulation
- Thermal Insulation
- Inswing Outswing Door Solution Available
- Easy Maintenance
- Easy Glass Replacement

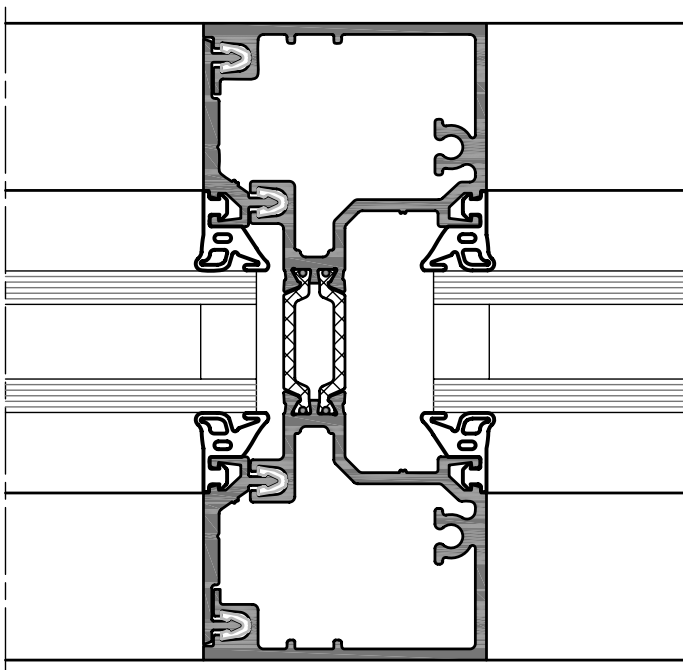
Applications

- Storefronts
- Low-Rise Buildings

Technology



1. Mullion
2. Cover
3. Insulating Glass Unit
4. Polyamidic Thermal Barrier
5. EPDM Gaskets
6. Painted or Anodized Finish



Horizontal section

Architectural Envelope Storefront System

Opening Solutions



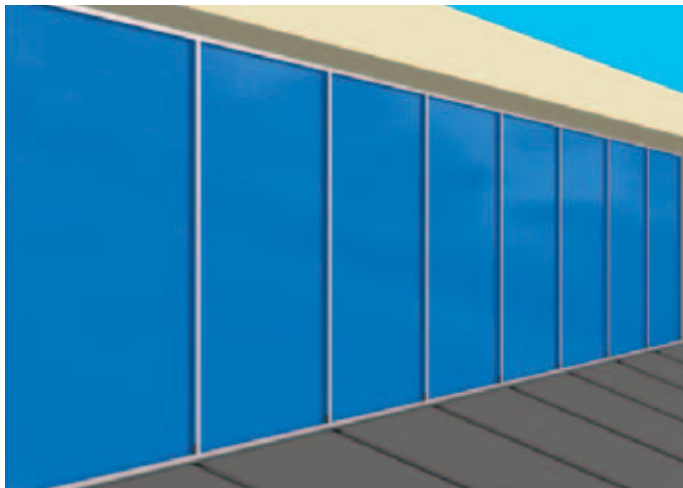
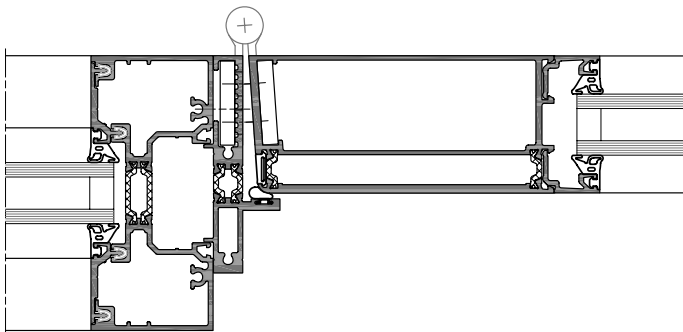
Single door
opening
outward

Single door
opening
inward

Double door
opening outward

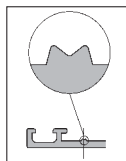
Double door
opening inward

Thermally Insulated, Single and Double, Opening Inward and Outward Store Entrance Doors.



Quality

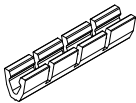
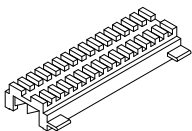
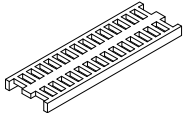
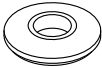
METRA stands for quality and optimal performance. Only original METRA profiles and accessories can certify the highest performance. Original METRA products have an "M" mark on the interior surface.

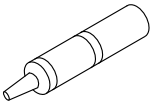
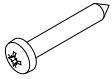


METRA quality is certified by ISO 9001. METRA controls the entire process of production for the extrusions. Manufacturing and installation of final products are performed through a network of independent specialists.

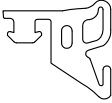
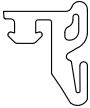




CODE	DRAWING	UTILIZATION
Ma 2700		Clip for profiles assembly Material: Nylon PA6
Ma 2701		Glass setting block 25.4 mm [1"] Material: Nylon PA6
Ma 2702		Glass setting block adapter 32 mm [1 1/4"] Material: Nylon PA6
Ma 4256		Wetherseal bush for fastening screws Material: various

CODE	DRAWING	UTILIZATION
Mu 0481		Sealant for junctions Material: Siliconic sealant
Mu 0710		Screw for profiles assembly Material: Stainless Steel



CODE	DRAWING	UTILIZATION
Mg 390d		Glazing Gasket 25.4 mm [1"] Glass Material: EPDM
Mg 391d		Glazing Gasket 32 mm [1 1/4"] Glass Material: EPDM
Mg 514d		Head Receptor Gasket Material: EPDM

CODE	DRAWING	UTILIZATION

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?



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



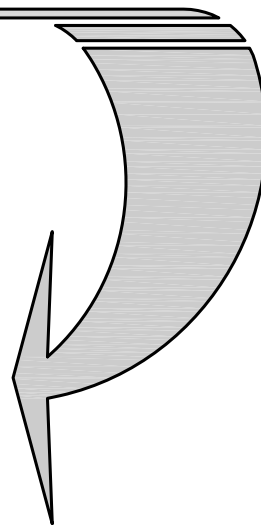
2. Class N: Extrusion die is not available at Metra Systems.
Please verify term and conditions with
Metra Systems sales department

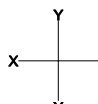


Where do I see the Profile Class?

At the Profile Chart - Group A (next page)

SECTION	CODE	BAR LENGTH m [ft]	Wx mm [in]	Wx mm [in]	UTILIZATION	PA CU
	NC 70142	6500	2.244	0.806	Sill	B
		[21'-#]	67.143	9.756		1
	NC 70145	6500	8.747	2.099	Head Receptor	B
		[21'-#]	113.135	14.534		1
	NC 70146	6500	4.77	1.534	Head Receptor Snap-on Cover	B
		[21'-#]	2.316	0.771		1
	NC 70150	6500	20.921	7.226	Mullion / Transom	B
		[21'-#]	131.548	23.018		1
	NC 70151	6500	-	-	Mullion / Transom Cover	B
		[21'-#]	-	-		1
	NC 70156	6500	14.599	5.372	Intermediate Transom	B
		[21'-#]	108.289	17.044		1
	NC 70160	6500	-	-	Glass stop	B
		[21'-#]	-	-		1





METRA

SECTION	CODE	BAR LENGTH m [ft]	Jx Jy cm ⁴	Wx Wy cm ³	UTILIZATION	PAGE
						CLASS
	NC 70142	6500	2.244	0.806	Sill	B 01
		[21'-3 ⁷ / ₈ "	67.143	9.756		Y
	NC 70145	6500	8.747	2.099	Head Receptor	B 01
		[21'-3 ⁷ / ₈ "	113.135	14.534		Y
	NC 70146	6500	4.77	1.534	Head Receptor Snap-on Cover	B 02
		[21'-3 ⁷ / ₈ "	2.316	0.771		Y
	NC 70150	6500	20.921	7.226	Mullion / Transom	B 02
		[21'-3 ⁷ / ₈ "	131.548	23.018		Y
	NC 70151	6500	-	-	Mullion / Transom Cover	B 02
		[21'-3 ⁷ / ₈ "	-	-		Y
	NC 70156	6500	14.599	5.372	Intermediate Transom	B 03
		[21'-3 ⁷ / ₈ "	108.289	17.044		Y
	NC 70160	6500	-	-	Glass stop	B 03
		[21'-3 ⁷ / ₈ "	-	-		Y

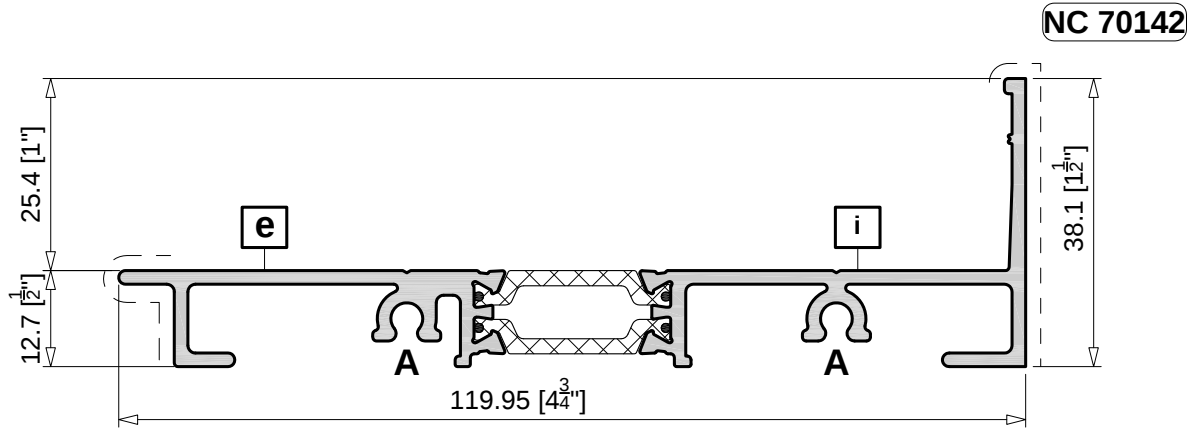


SECTION	NC 70142	J_X J_Y cm ⁴	W_X W_Y cm ³	UTILIZATION
	BAR LENGTH m [ft]	2.244 67.143	0.806 9.756	SILL
	6500 [21'-3 7/8"]	OUT. PERIMETER	EXPOSED SURFACE	
		456 [176 1/4"]	— — — 68 [3 1/8"]	

COMPONENTS

SHAPE	CODE	OUT. PERIMETER	EXPOSED SURFACE
e	NC70140	200 [7 7/8"]	— — — 27 [1 1/8"]
i	NC70141	267 [10 5/8"]	— — — 41 [1 7/8"]

	289300
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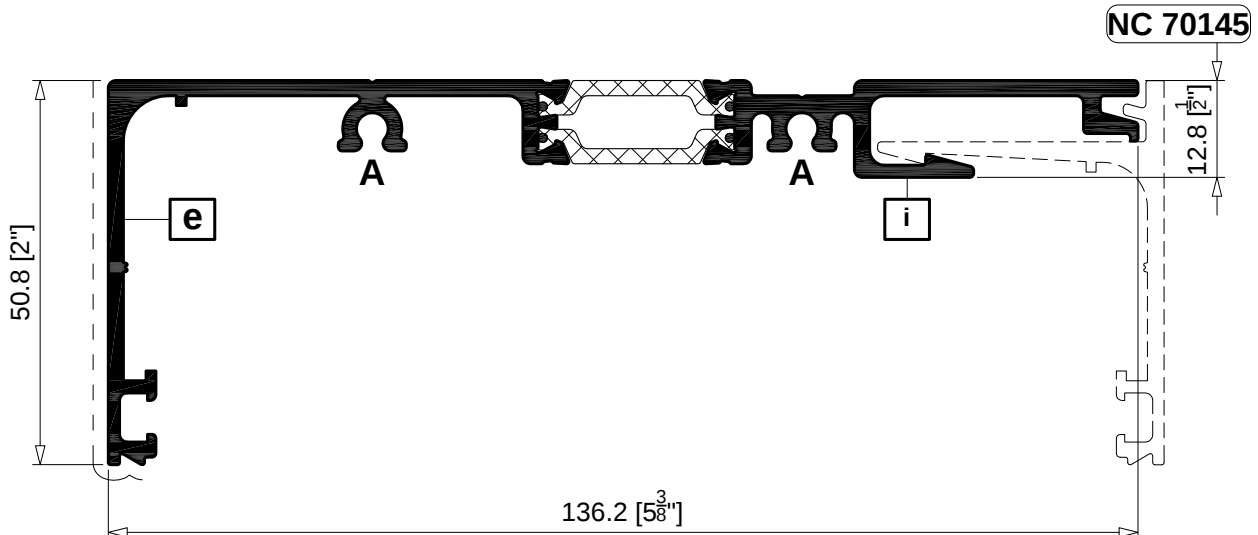


SECTION	NC 70145	J_X J_Y cm ⁴	W_X W_Y cm ³	UTILIZATION
	BAR LENGTH m [ft]	8.747 113.135	2.099 14.534	HEAD RECEPTOR
	6500 [21'-3 7/8"]	OUT. PERIMETER	EXPOSED SURFACE	
		531 [209 9/16"]	— — — 60 [2 3/8"]	

COMPONENTS

SHAPE	CODE	OUT. PERIMETER	EXPOSED SURFACE
e	NC70143	311 [12 1/4"]	— — — 60 [2 3/8"]
i	NC70144	235 [9 1/2"]	— — — 0

	289300
--	--------



	A
NC 70142	
NC 70145	MU 0710

mm
[inches]
SCALE 1:1

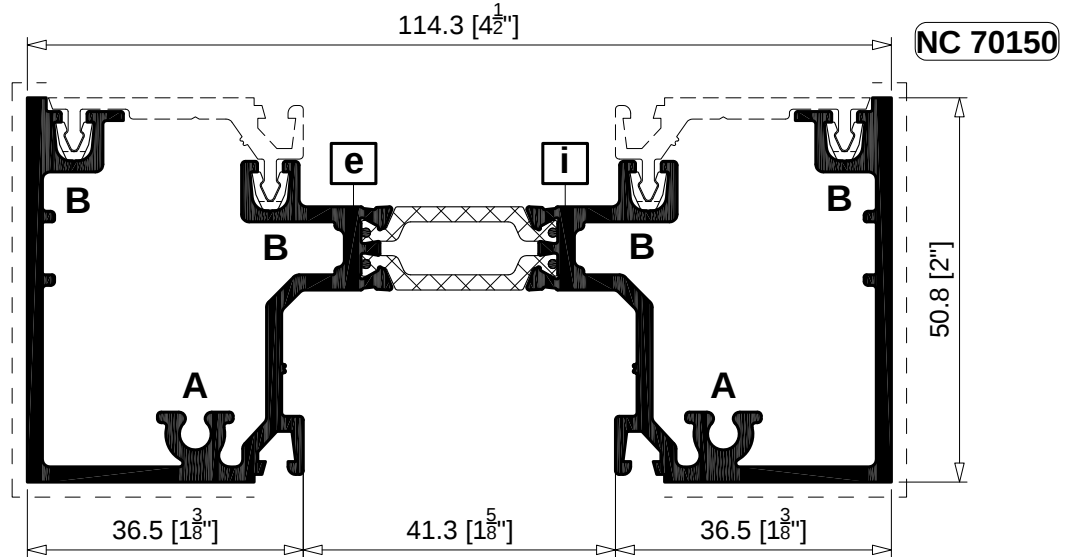


SECTION	NC 70150	J_X J_Y cm ⁴	W_X W_Y cm ³	UTILIZATION
	BAR LENGTH m [ft]	20.921 131.548	7.226 23.018	MULLION TRANSOM
	6500 [21'-3 $\frac{7}{8}$ "	OUT. PERIMETER	EXPOSED SURFACE	
		813 [32 $\frac{1}{28}$ "	— — — 166 [6 $\frac{9}{128}$ "	

COMPONENTS

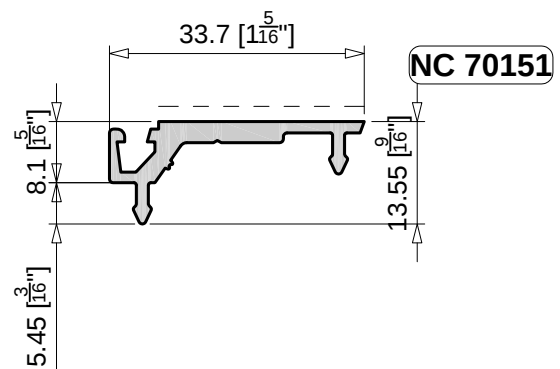
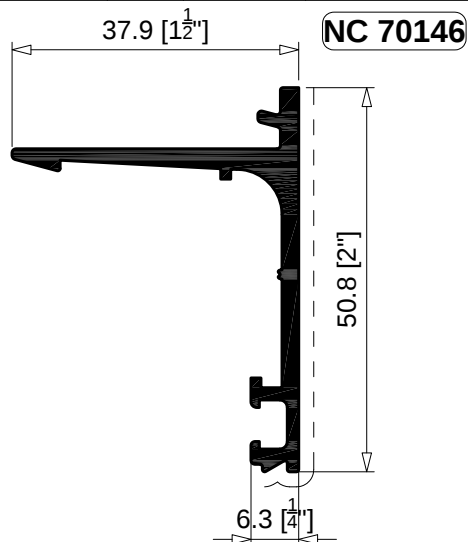
SHAPE	CODE	OUT. PERIMETER	EXPOSED SURFACE
 	NC70149	414 [16 $\frac{19}{64}$ "	— — — 83 [3 $\frac{17}{64}$ "

	289300
--	--------



SECTION	NC 70146	J_X J_Y cm ⁴	W_X W_Y cm ³	UTILIZATION
	BAR LENGTH m [ft]	4.77 2.316	1.534 0.771	HEAD RECEPTOR SNAP-ON
	6500 [21'-3 $\frac{7}{8}$ "	OUT. PERIMETER	EXPOSED SURFACE	
		207 [8 $\frac{1}{28}$ "	— — — 60 [2 $\frac{3}{64}$ "	

SECTION	NC 70151	J_X J_Y cm ⁴	W_X W_Y cm ³	UTILIZATION
	BAR LENGTH m [ft]	-	-	MULLION COVER
	6500 [21'-3 $\frac{7}{8}$ "	OUT. PERIMETER	EXPOSED SURFACE	
		114 [4 $\frac{31}{64}$ "	— — — 27 [1 $\frac{1}{16}$ "	



	A	B
NC 70150	MU 0710	Ma 2700

mm
[inches]
SCALE 1:1

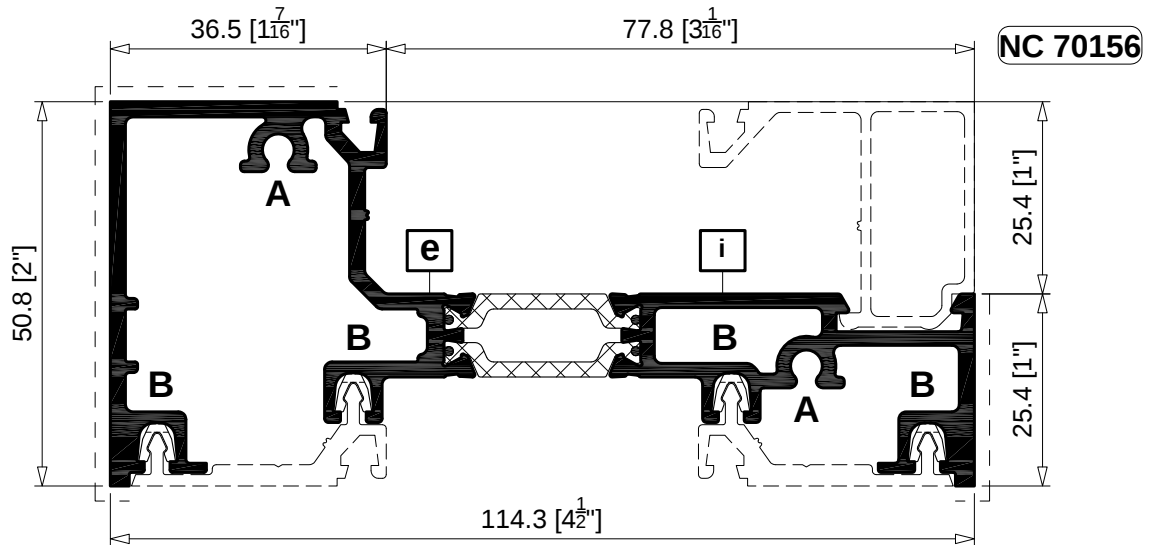


SECTION	NC 70156	J_x J_y cm ⁴	W_x W_y cm ³	UTILIZATION
	BAR LENGTH m [ft]	14.599 108.289	5.372 17.044	INTERMEDIATE TRANSOM
	6500 [21'-3 ⁷ / ₈ "]	OUT. PERIMETER	EXPOSED SURFACE	
		654 [25 ³ / ₄ "]	— — — 111 [41 ²⁸ / ₃₂ "]	

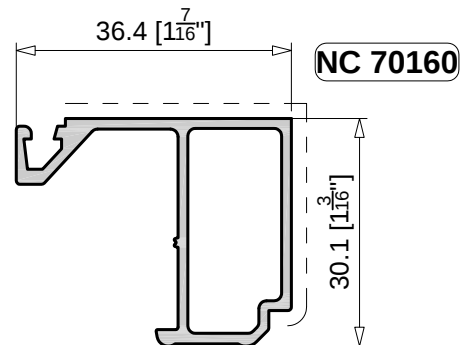
COMPONENTS

SHAPE	CODE	OUT. PERIMETER	EXPOSED SURFACE
e	NC70149	414 [16 ¹⁹ / ₆₄ "]	— — — 83 [3 ¹⁷ / ₆₄ "]
i	NC70155	255 [10 ⁵ / ₁₂₈ "]	— — — 28 [1 ¹³ / ₂₈ "]

	289300
--	--------



SECTION	NC 70160	J_x J_y cm ⁴	W_x W_y cm ³	UTILIZATION
	BAR LENGTH m [ft]	-	-	GLASS STOP
	6500 [21'-3 ⁷ / ₈ "]	OUT. PERIMETER	EXPOSED SURFACE	
		159 [17 ⁶¹ / ₆₄ "]	— — — 56 [2 ¹³ / ₆₄ "]	



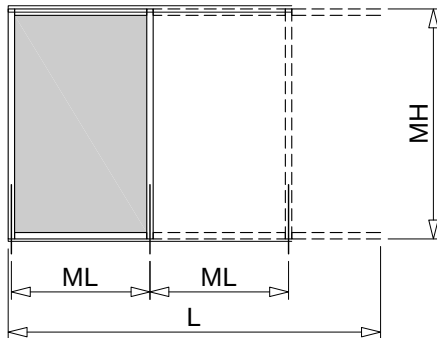
	A	B
NC 70156	MU 0710	Ma 2700

mm
[inches]
SCALE 1:1

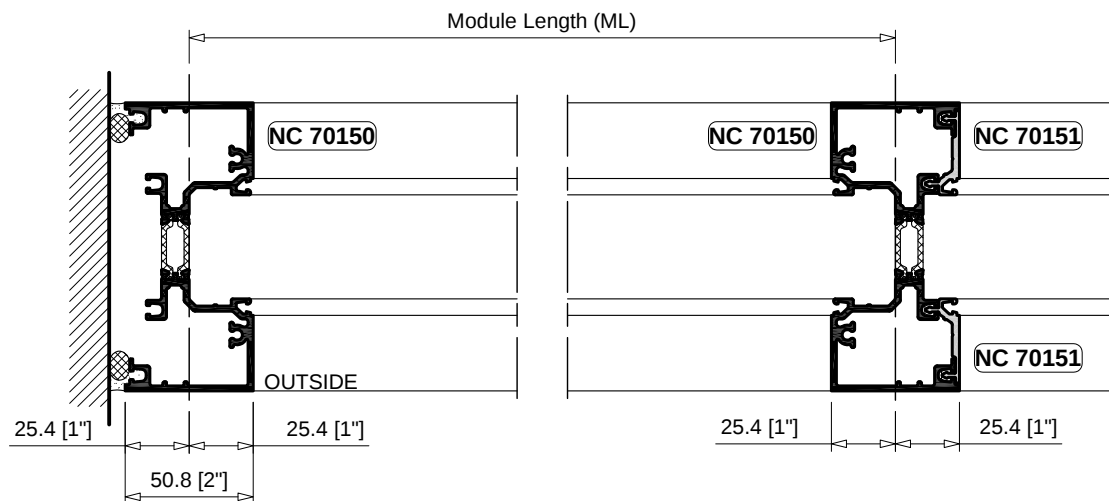
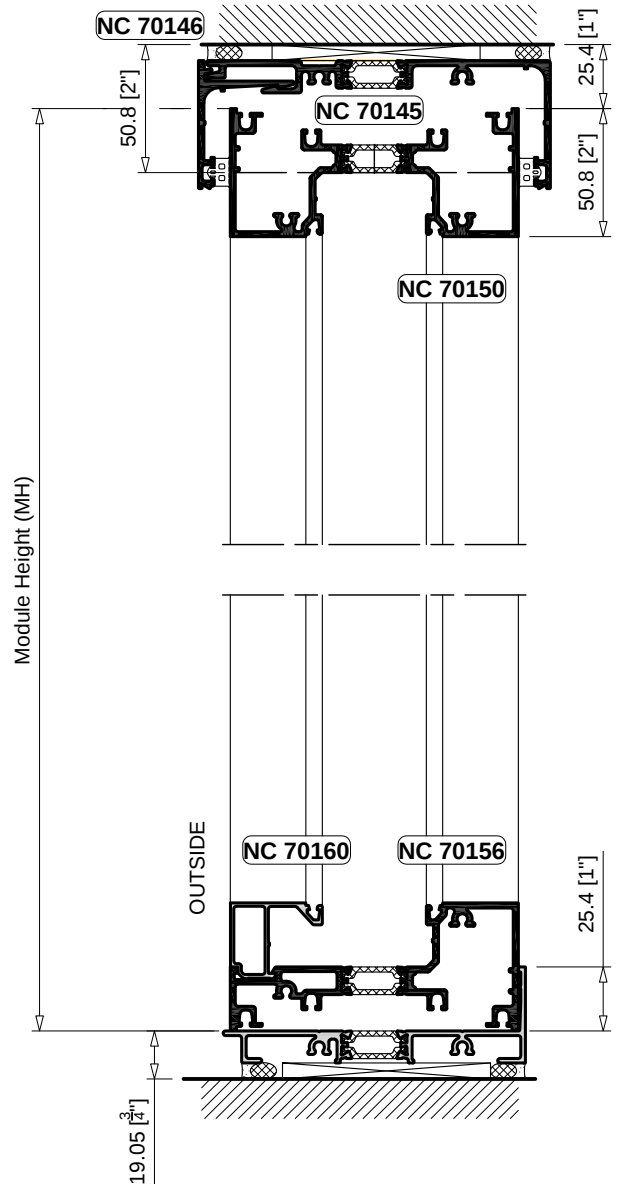


CUTTING DIMENSIONS

SILL - HEAD RECEPTOR
UNITS



PROFILE	SHAPE	mm	[inches]	PIECES	ANGLE
NC 70142		L		1	90°
NC 70145		L		1	90°
NC 70146		L		1	90°
NC 70150		ML - 50.8 [2"]		2	90°
		MH		2	90°
NC 70151		MH		2	90°
NC 70156		ML - 50.8 [2"]		1	90°
NC 70160		ML - 50.8 [2"]		1	90°

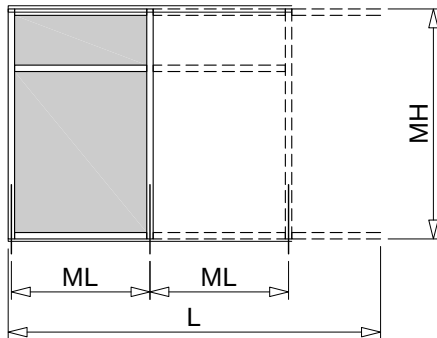


mm

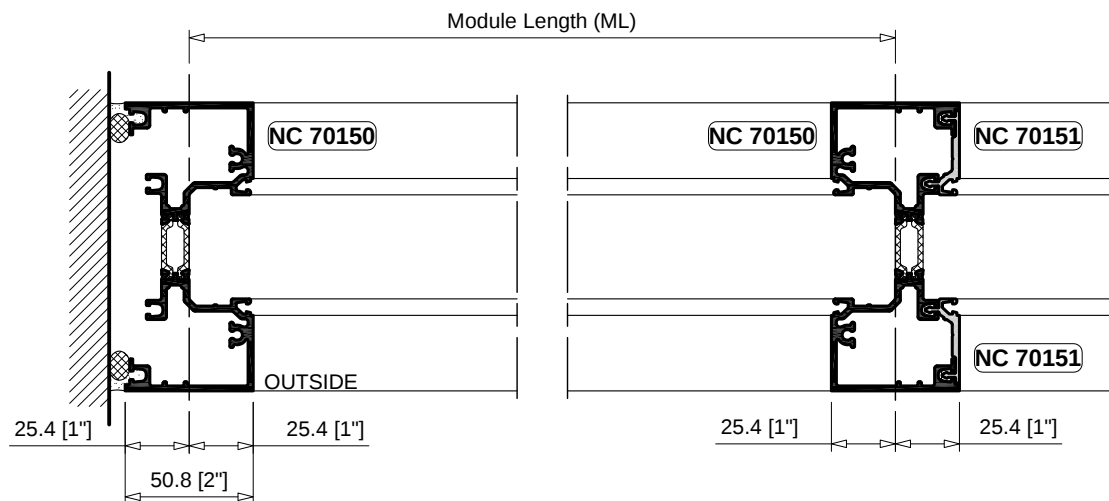
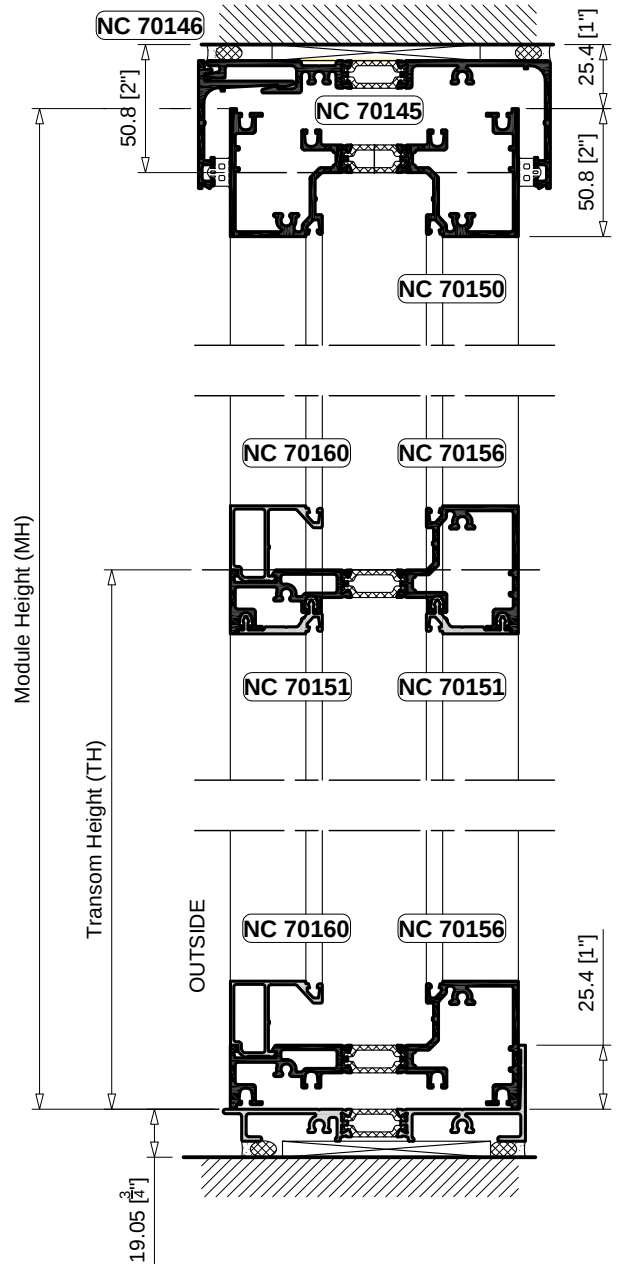


CUTTING DIMENSIONS

SILL - HEAD RECEPTOR
UNITS WITH TRANSOM



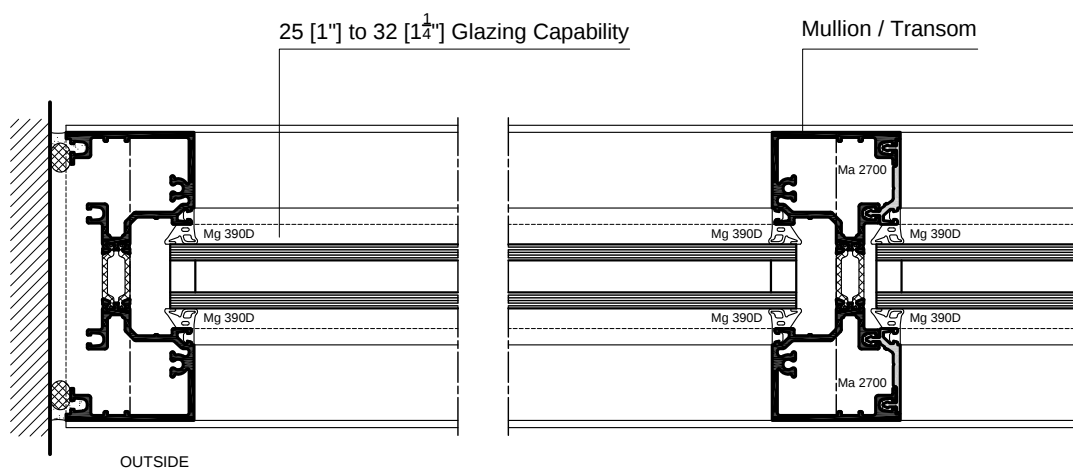
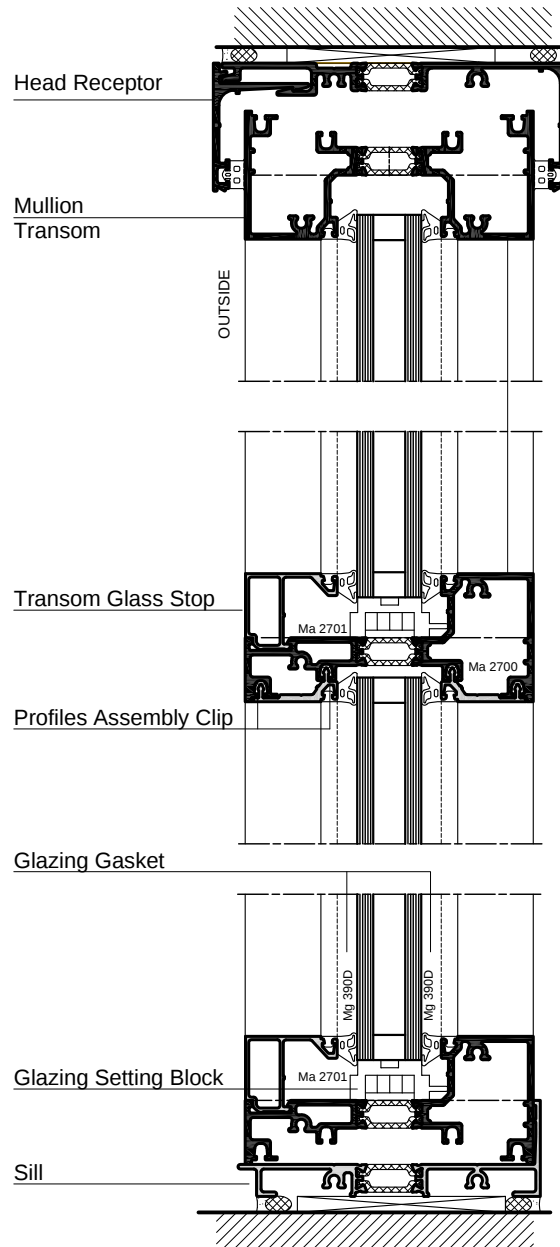
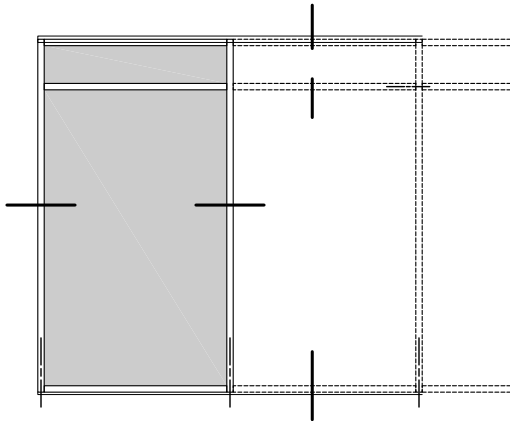
PROFILE	SHAPE	mm	[inches]	PIECES	ANGLE
NC 70142		L		1	90°
NC 70145		L		1	90°
NC 70146		L		1	90°
NC 70150		ML - 50.8 [2"]		2	90°
		MH		2	90°
NC 70151		MH		2	90°
		ML - 50.8 [2"]		2	90°
NC 70156		ML - 50.8 [2"]		2	90°
NC 70160		ML - 50.8 [2"]		2	90°



mm



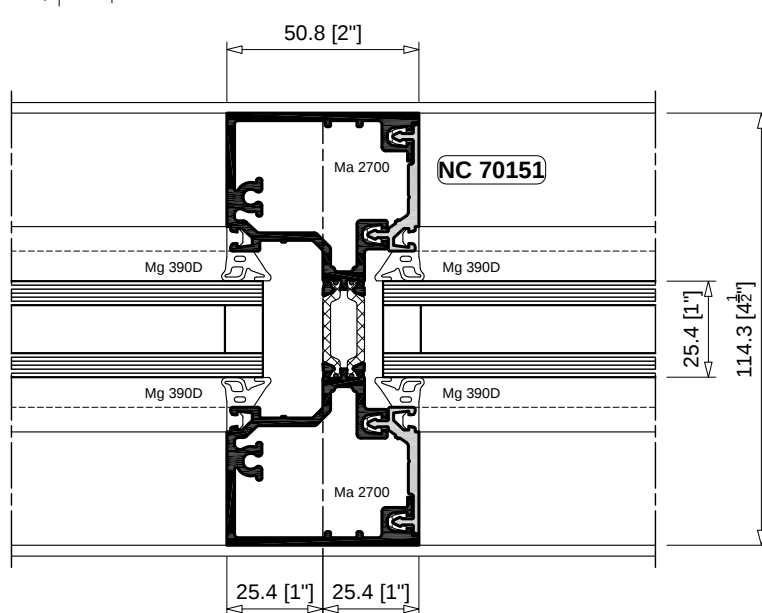
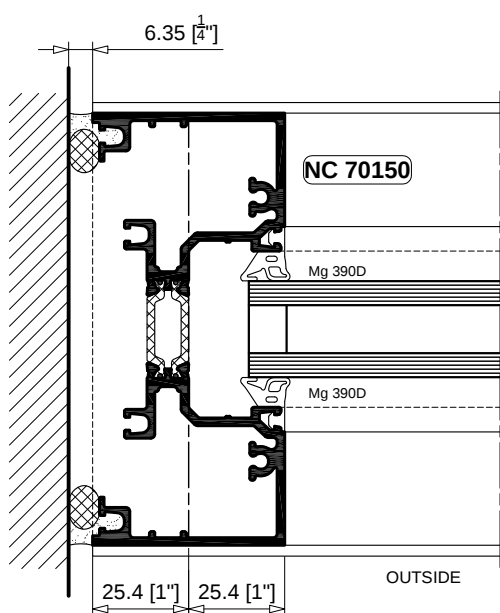
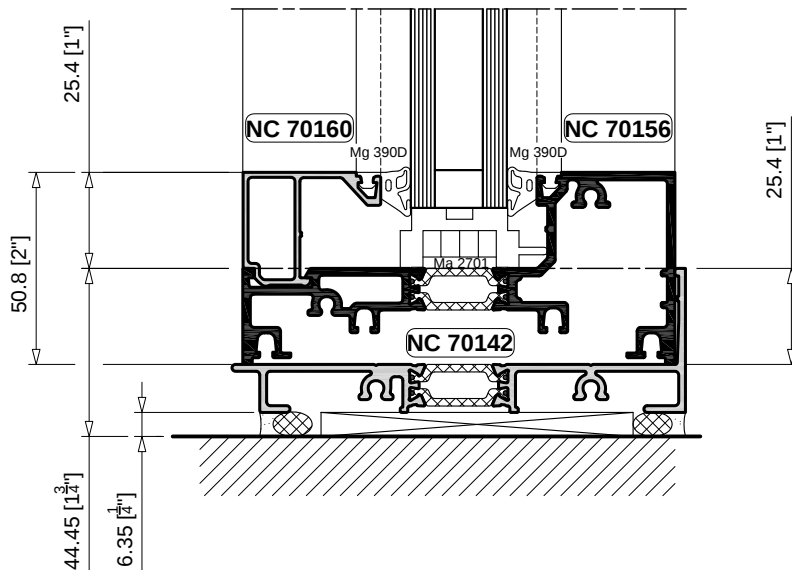
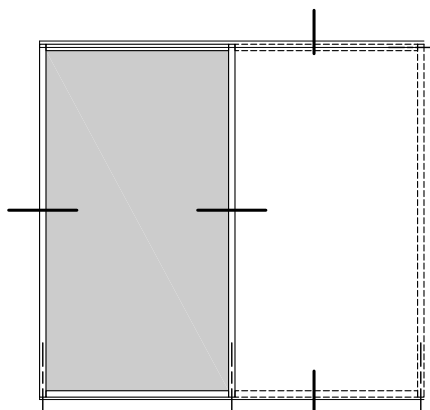
SYSTEM COMPONENTS



mm
[inches]
SCALE 1:3



SINGLE GLASS UNIT

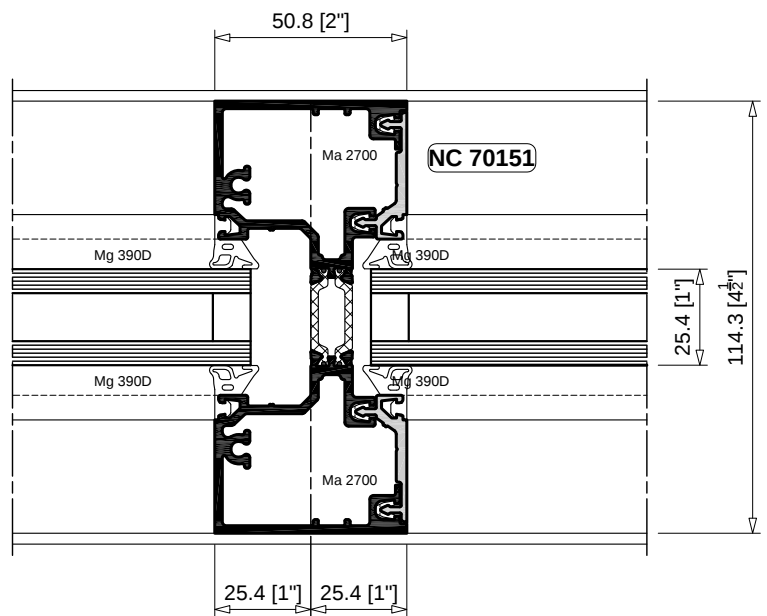
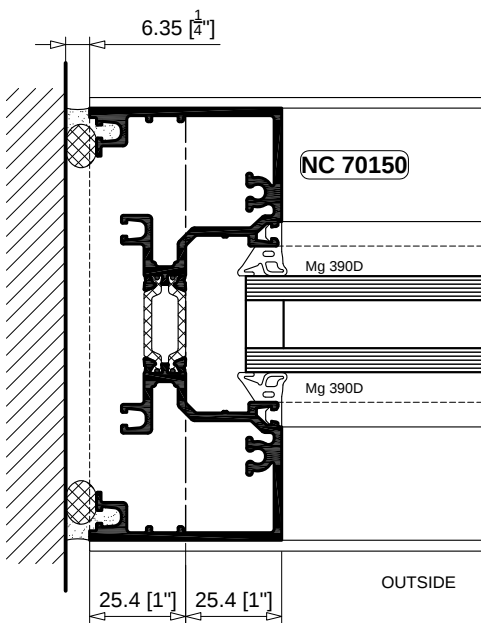
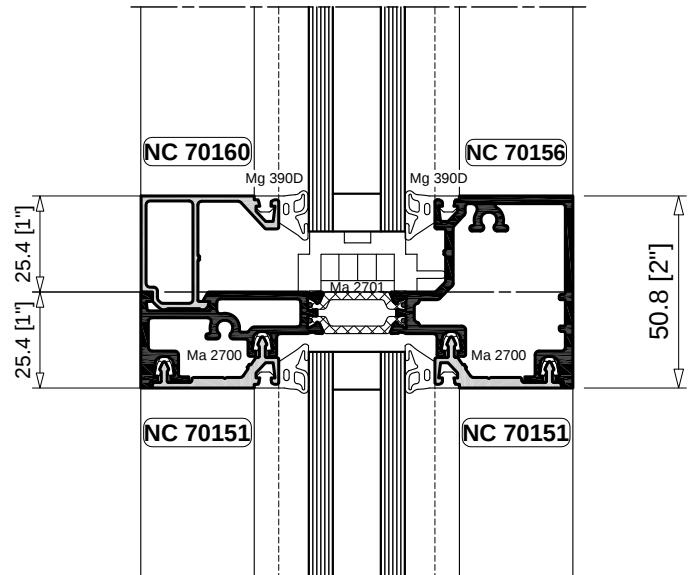
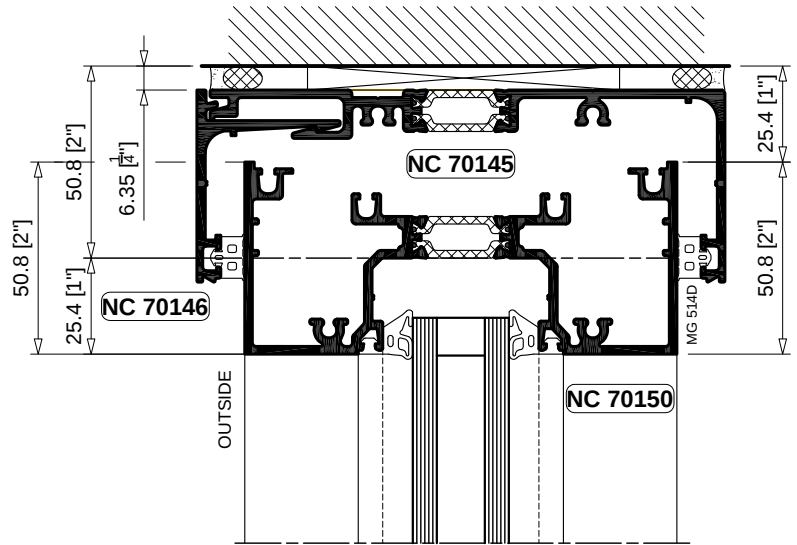
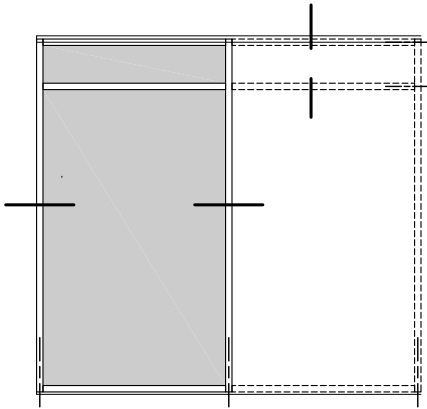


mm
[inches]
SCALE 1:2



MAIN SECTIONS

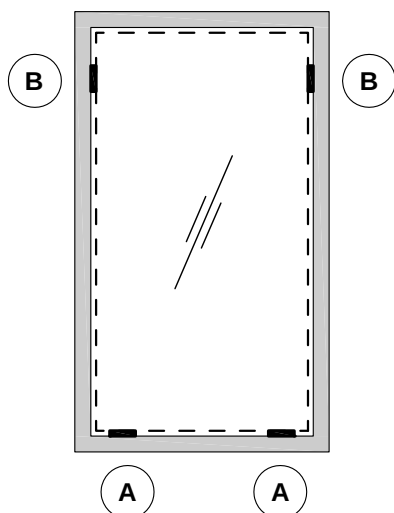
TRANSOM GLASS UNIT



mm
[inches]
SCALE 1:2

UNIT GLAZING

FIXED GLAZING





A **SETTING BLOCKS**

To be positioned as shown

Distance from the edge of the glass:

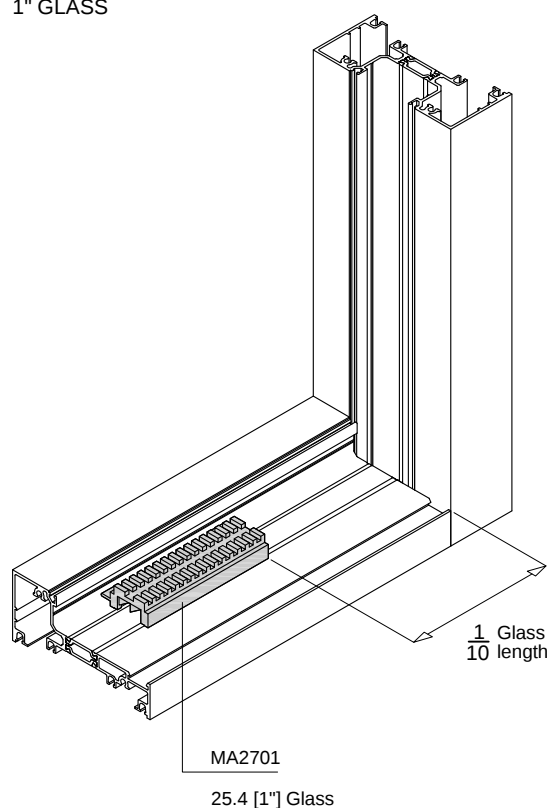
$\frac{1}{10}$ of glass length



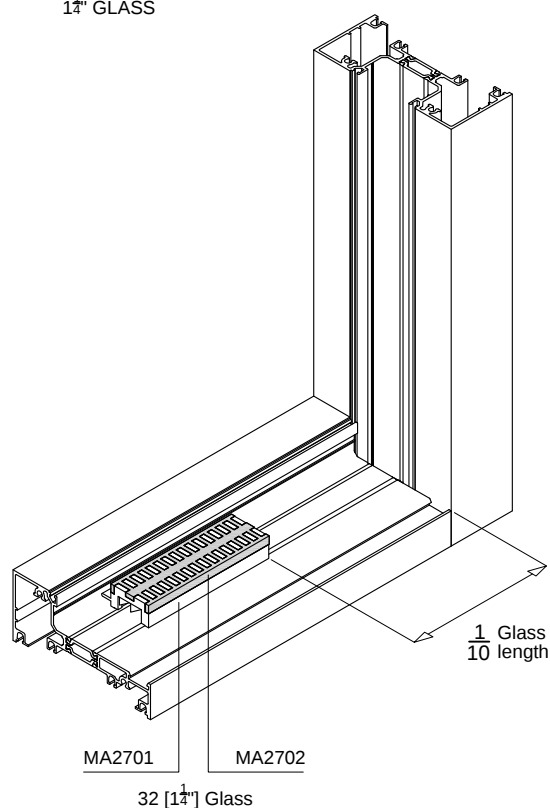
B **EDGE BLOCKS**

To ensure glass stability *

SETTING BLOCKS
1" GLASS



SETTING BLOCKS
1 1/4" GLASS



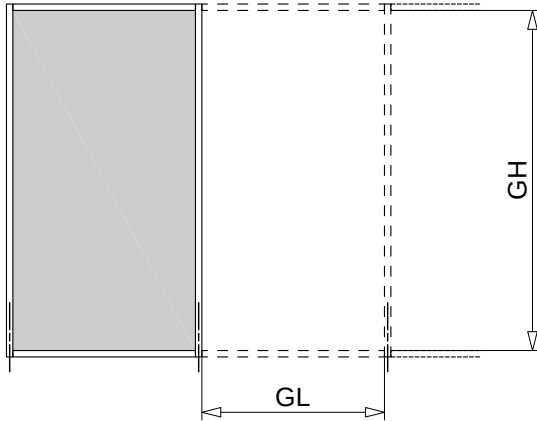
*: Not supplied by METRA

mm
[inches]

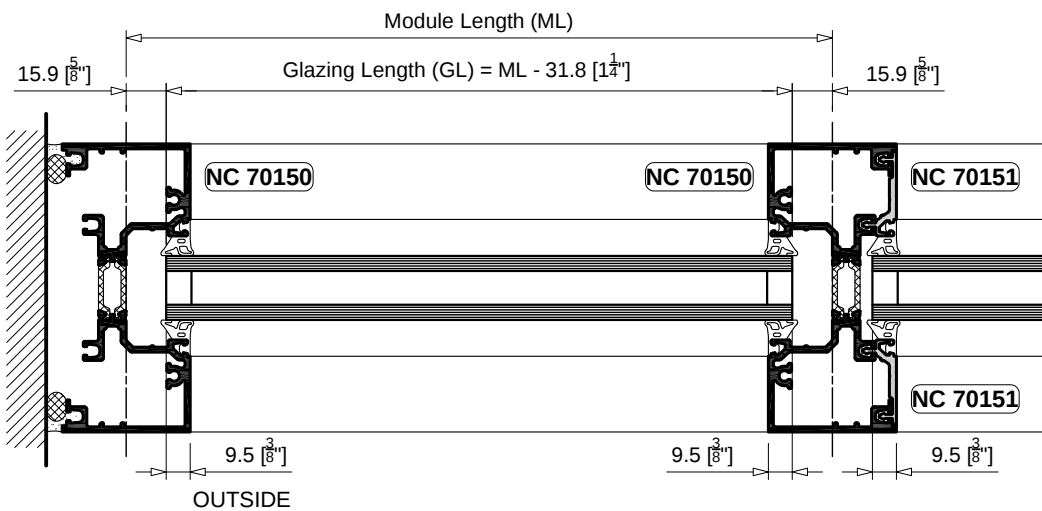
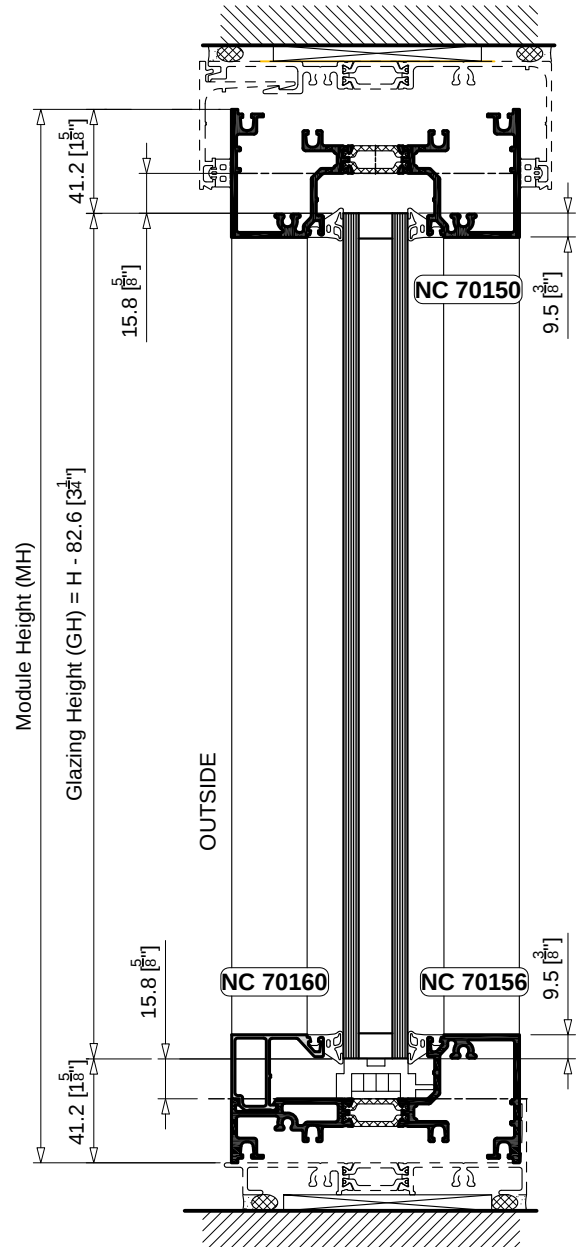


UNIT GLAZING

SINGLE GLASS UNIT



GLASS CUTTING LIST
IS RELATED TO
UNIT DIMENSIONS

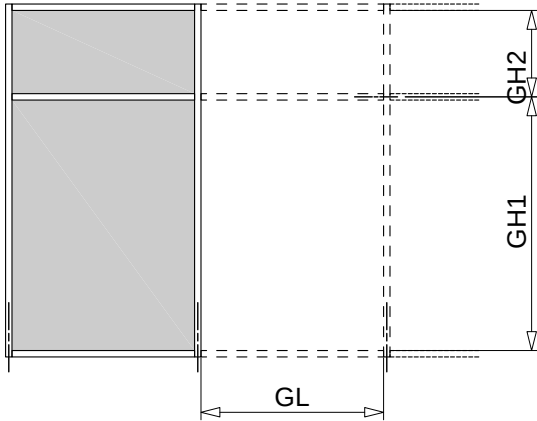


mm
[inches]
SCALE 1:3

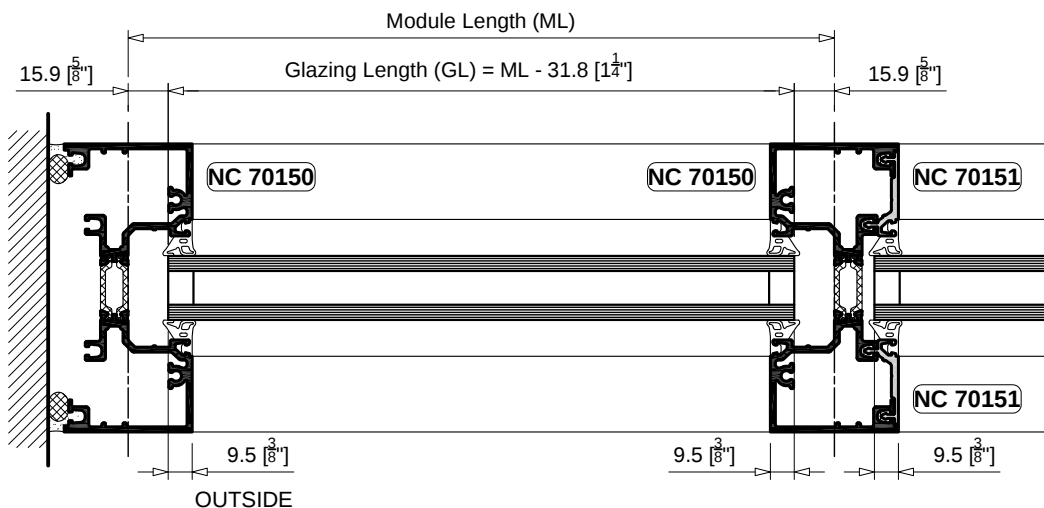
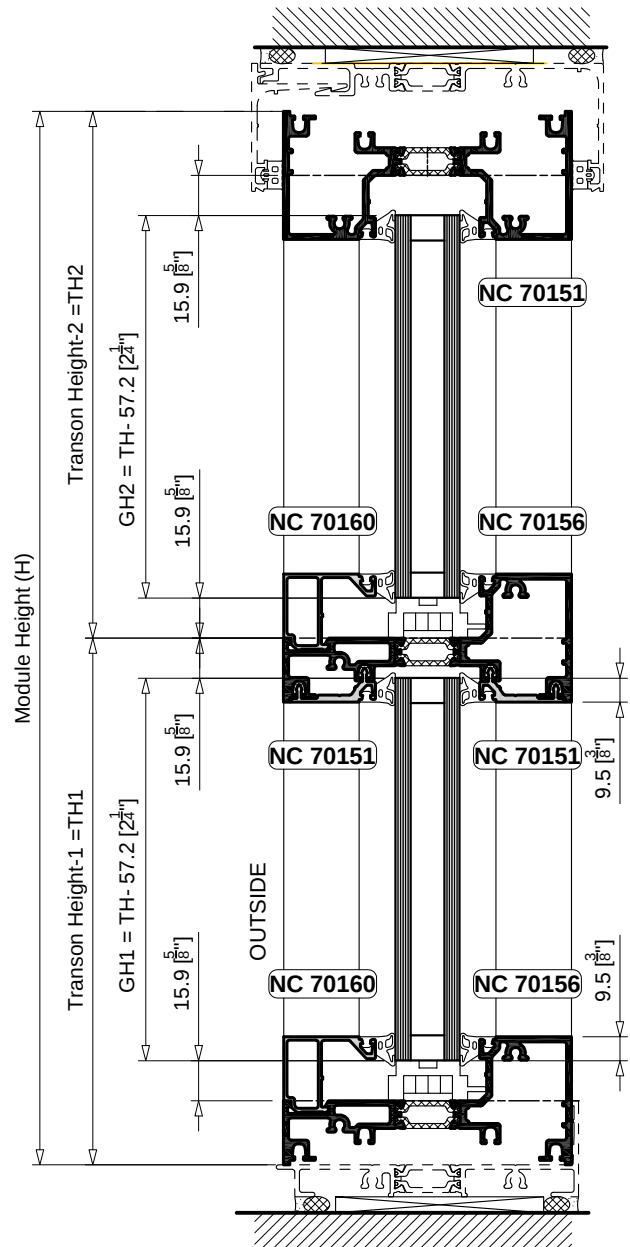


UNIT GLAZING

TRANSOM GLASS UNIT



GLASS CUTTING LIST
IS RELATED TO
UNIT DIMENSIONS

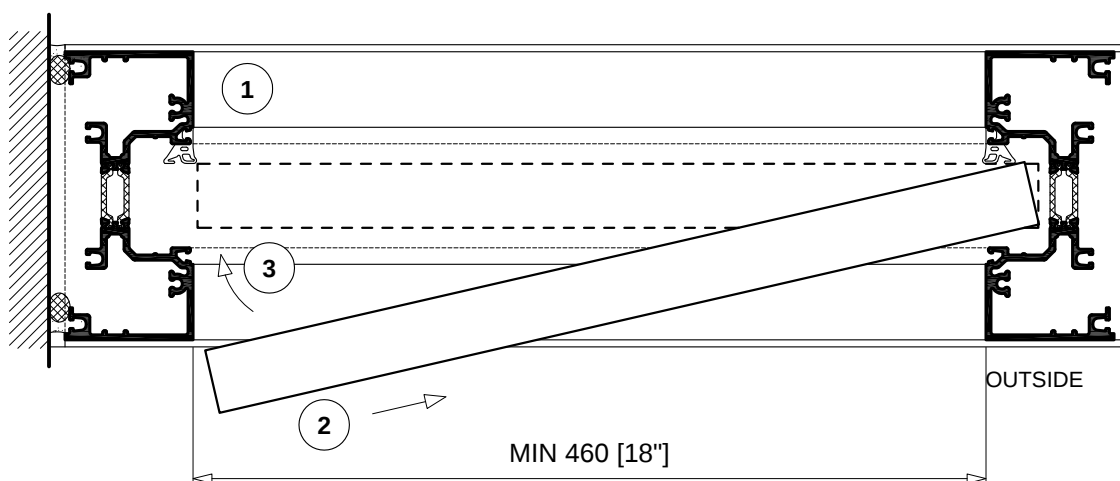


mm
[inches]
SCALE 1:3

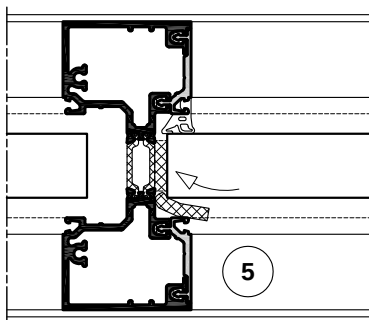
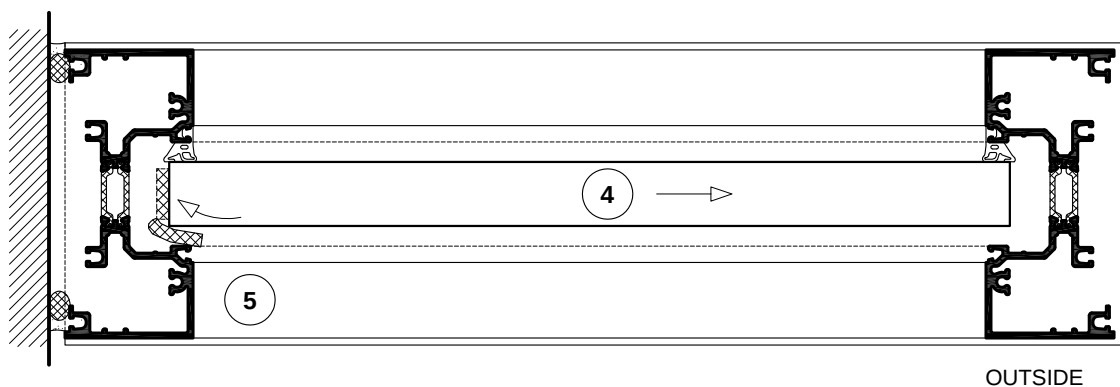
GLASS INSTALLATION

SINGLE GLASS UNIT
TRANSOM GLASS UNIT

- 1 Install inside gaskets
- 2 Insert glass
- 3 Rotate into glass pocket



- 4 Slide into position
- 5 Insert edge blocks



APPLIES TO START
AND INTERMEDIATE UNITS



EDGE BLOCK
NOT SUPPLIED BY METRA



mm
[inches]

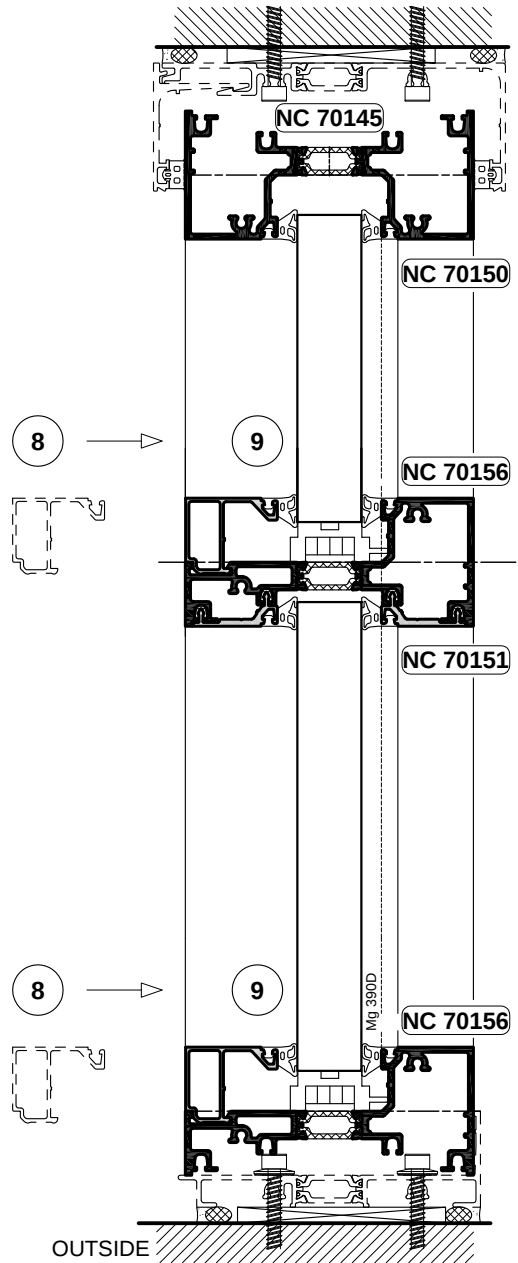
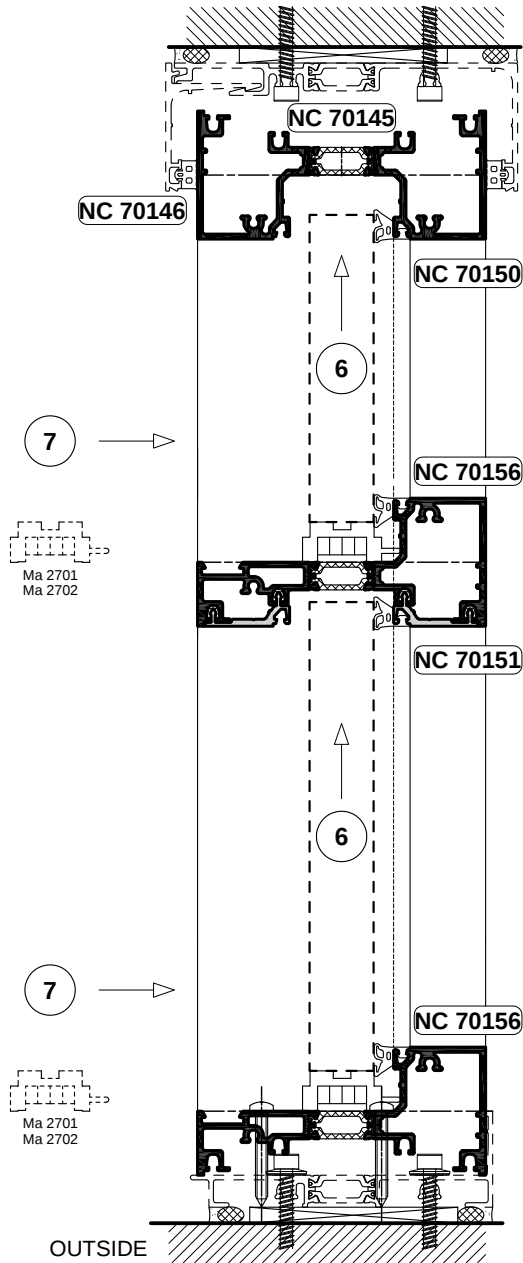


GLASS INSTALLATION

SINGLE GLASS UNIT
TRANSOM GLASS UNIT

- 6 Lift glass into position
- 7 Insert setting blocks

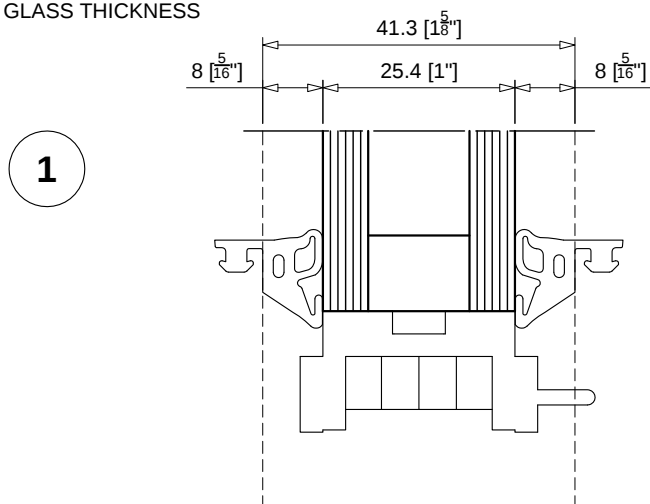
- 8 Insert glass stop
- 9 Insert outside gasket

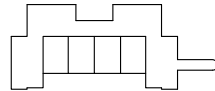


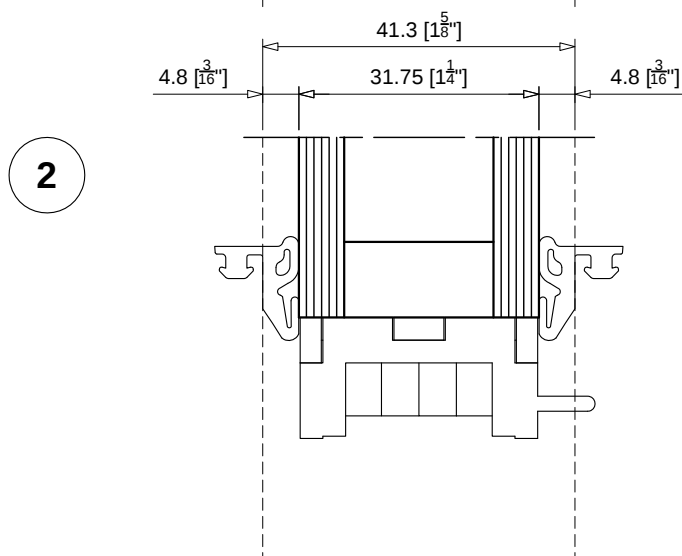
mm
[inches]
SCALE 1:3

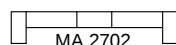
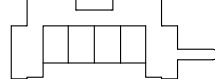
UNIT GLAZING

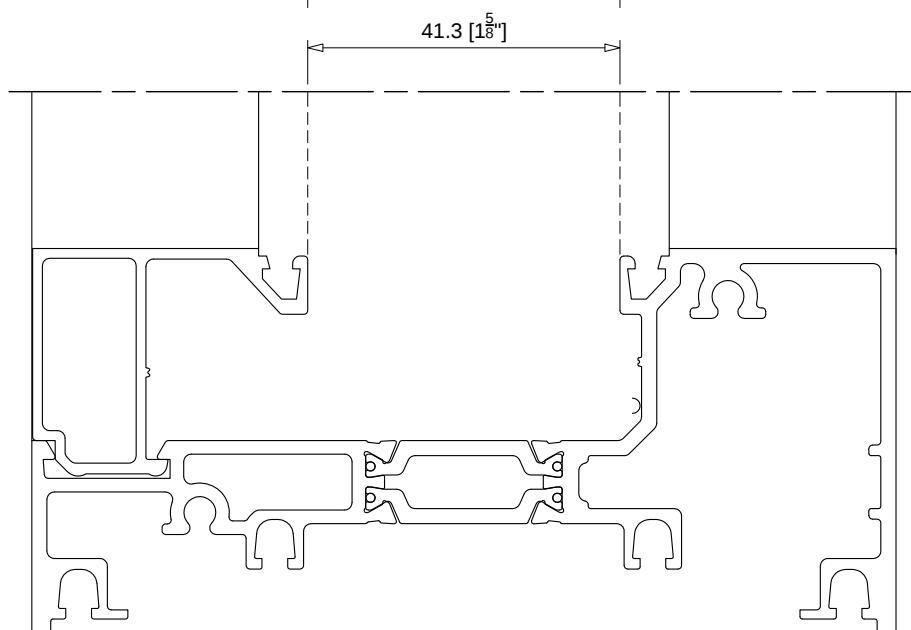
GLASS THICKNESS



25.4 [1"] GLASS THICKNESS	
GASKET	SETTING BLOCK
 MG 390D	 MA 2701



31.75 [1 1/4"] GLASS THICKNESS	
GASKET	SETTING BLOCK
 MG 391D	 MA 2702  MA 2701



NOTICE:

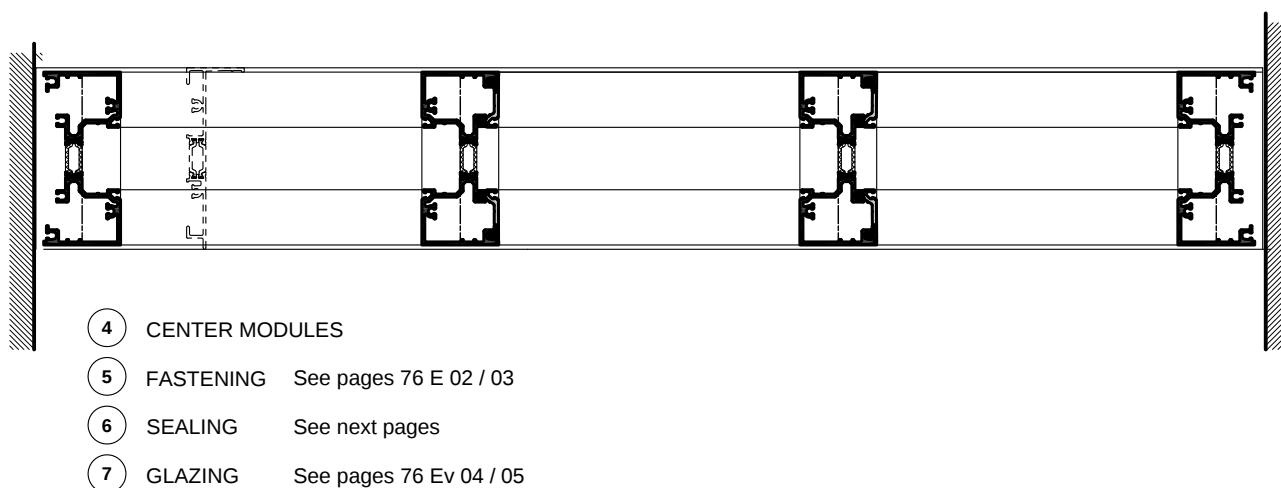
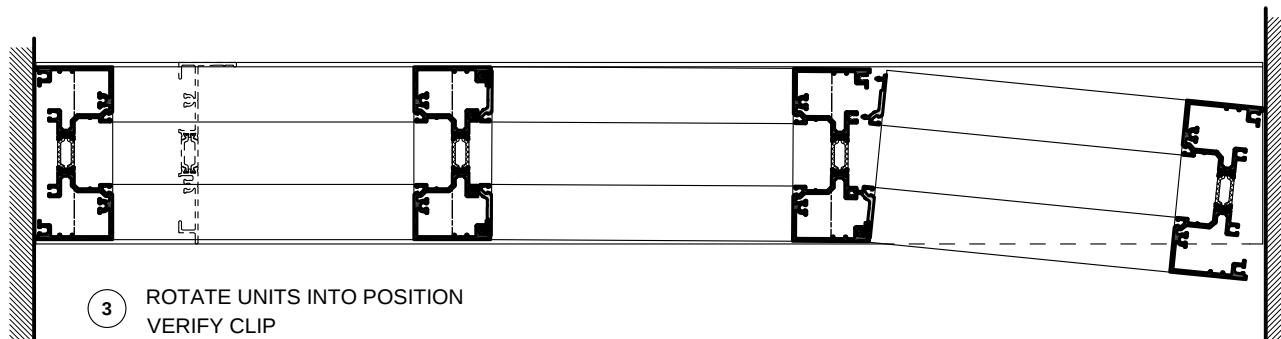
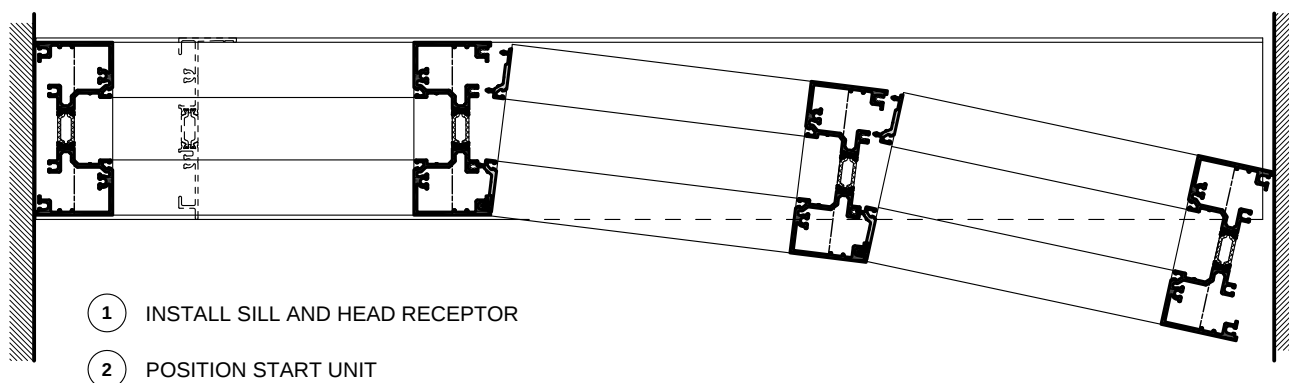
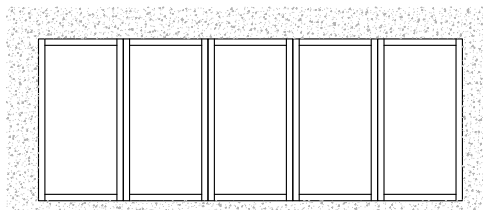
Indicated Dimensions
are theoretical.

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

mm
[inches]

INSTALLATION

UNITS INSTALLATION BETWEEN WALLS





METRA Systems
1995 Industrial Blvd. - Laval, QC H7S 1P6, Canada
Tel. +1 450 629 4260 - Fax +1 450 629 7313
info@metrasystem.com
www.metrasystem.com



METRA
METRA S.p.A.
Via Stacca, 1 - 25050 Rodengo Saiano (BS) Italy
Tel. +39 030 6819.1 - Fax +39 030 6819 990
metra@metra.it
www.metra.eu

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environmental impact.



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Printed in September 2009