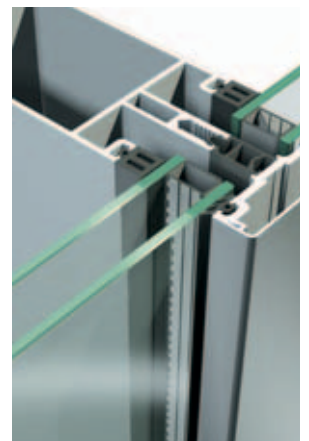
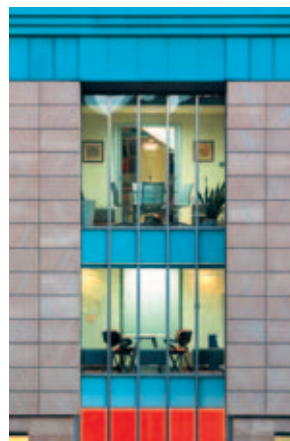


Poliedra-Sky 60

Architectural Envelope Curtain Wall



CATALOGUE RELEASE

CURRENT RELEASE

2009

09

Previous version:

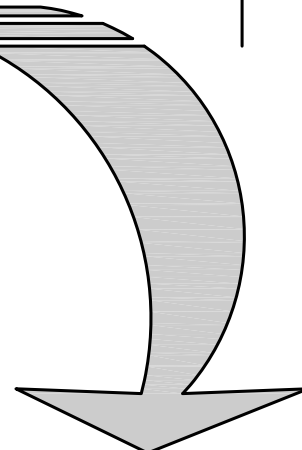
2009

06

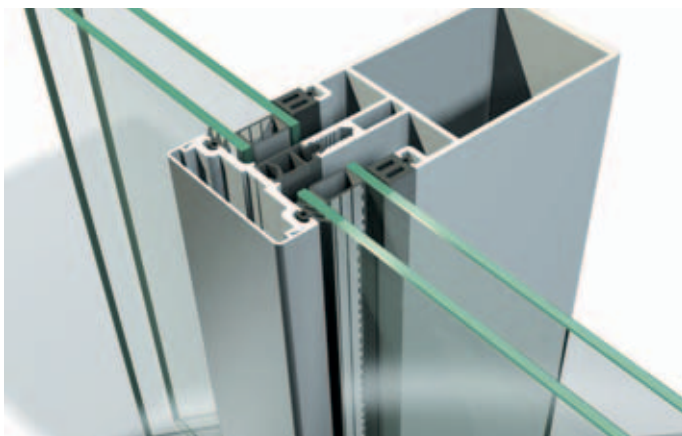
SINGLE PAGE UPDATE:

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



Poliedra-Sky 60



Features

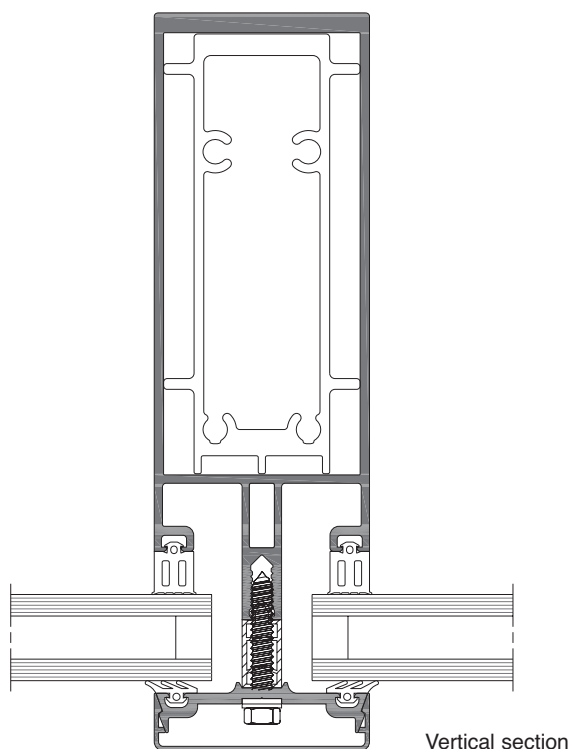
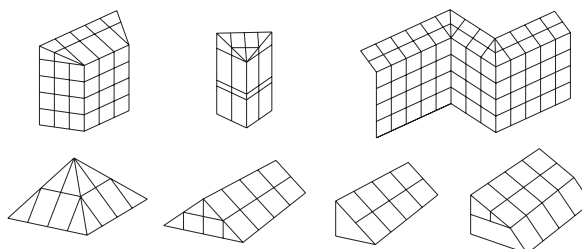
- 6063-T5 Aluminum Alloy Frame
- Mullion Width: 60 mm [2 3/8"]
- Min Mullion Depth: 42 mm [1 5/8"]
- Max Mullion Depth: 250 mm [9 7/8"]
- Min Glass Size: 8 mm [3/8"]
- Max Glass Size: 45 mm [1 3/4"]
- Weather Stripping: EPDM Gaskets
- Glazing Gaskets: EPDM or Silicone
- Thermal Barrier: Polyamide
- Shear Blocks
- Painted or Anodized Finish
- Custom Color
- Dual Finish Available
- Durable Components
- Operable Window Integrated: NC 96 STH
- Solar Shading Systems Integrated

Benefits

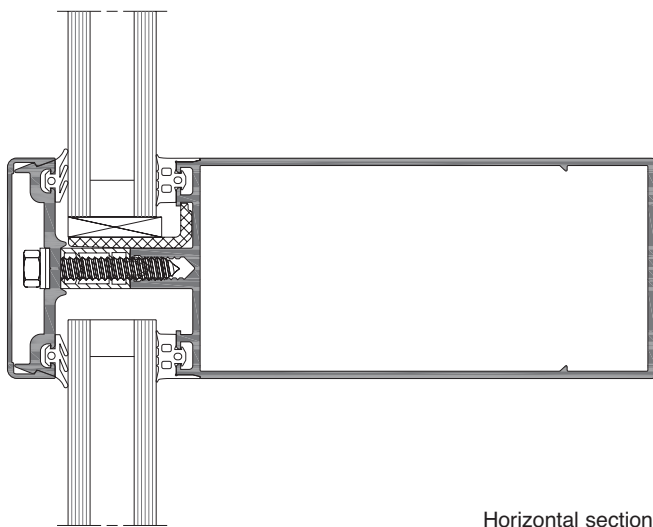
- System Tested to US and Canadian Standards
- Operable System Integrated into Curtain Wall
- Acoustic Insulation
- Thermal Insulation
- Internal Drainage
- Easy Maintenance

Applications

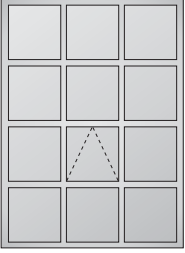
- Low and Mid-rise Buildings
- Storefronts
- Skylights



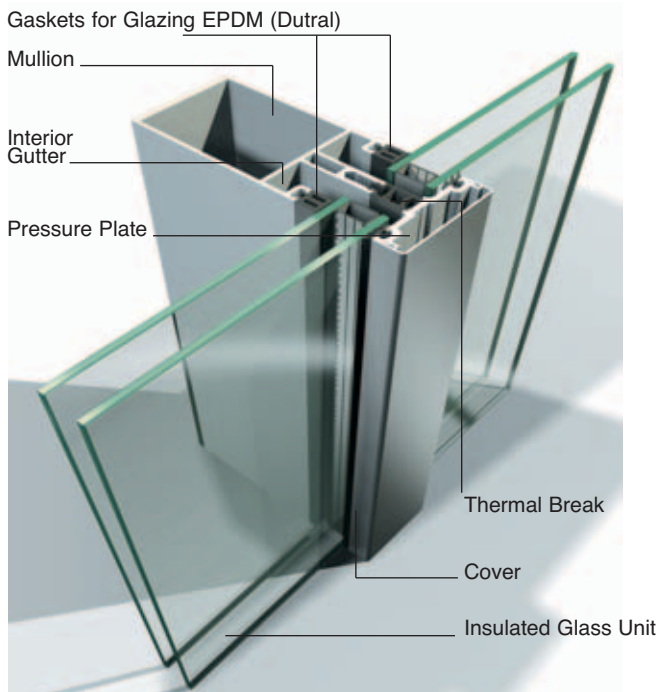
Operable Windows



Performance data

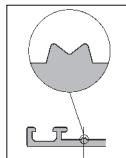
Tested Configuration	Specimen Size	AAMA 501 - 05
 Poliedra-Sky 60	DP 60 Two stories high 4260 x 6750 mm [167" x 265"]	Air tightness @ 75 Pa [1.57 psf]
		infiltration: 0.23 m³/h.m² [0.0124 cfm/ft²] exfiltration: 0.27 m³/h.m² [0.0147 cfm/ft²]
		Static water penetration: ASTM E331
		DP 100: 720 Pa [15 psf]
		Dynamic water penetration: AAMA 501.1
		DP 100: 720 Pa [15 psf]
		Structural: ASTM E 330
		DP 60: 4309 Pa [90 psf]

Technology



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.



Poliedra-sky 60

GENERAL SPECIFICATIONS

1. Profiles in conformity with standard EN 573.
2. Mullions and transoms with angled corners have a reduced width of 60 mm [$2\frac{3}{8}$ "] and are available in different dimensions in relation to the static load requirements.
3. Even with their reduced weight, mullions reach optimal inertia values due to their geometrical shape.
4. External covers, with a snap fit, are also available in different dimensions and shapes.
5. This high performance system, made of external collection grooves, allows for water and condensation drainage, and also glass ventilation that guarantees the best performance against atmospheric agents. This system is also well suited for skylights.
6. Glazing and/or plugging elements with a thickness variable between 8 mm [$\frac{3}{8}$ "] and 45 mm [$1\frac{3}{4}$ "] can be inserted.
7. EPDM tightness gaskets have differentiated elasticity in order to better absorb the movement of the plugging elements due to the differences of pressure.
8. All screws are made of 100% stainless steel. Brackets and shear blocks used in the assembly are made of aluminum.
9. Thermal insulation is provided by a continuous low thermal conductivity spacer located between the internal mullion and external pressure plate (standard UNI 10680).

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.



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 ASTM-E283,
ASTM-E547, ASTM-E331, ASTM-E330 AND AAMA-501.1 TEST PROCEDURES
ON A FULL SCALE CURTAIN WALL MOCK-UP FOR METRA SYSTEM**

Prepared for:

**METRA SYSTEM INC.
2000 BOUL. FORTIN
LAVAL, QUÉBEC
H7S 1P3**

SUMMARY OF RESULTS

Product Type :	Aluminum curtain wall with thermal break
Product Series/Model :	Poliedra Sky 60
<i>Results with reference to ASTM testing procedures only:</i>	
Air Tightness :	$Q_{average} = 0.069 \text{ L/s}\cdot\text{m}^2 \text{ @ } 75 \text{ Pa}$ (0.014 ft ³ /min-ft ² @ 1.57 psf) $Q_{average} = 0.192 \text{ L/s}\cdot\text{m}^2 \text{ @ } 300 \text{ Pa}$ (0.038 ft ³ /min-ft ² @ 6.27 psf)
Water Tightness :	No water infiltration under a differential pressure of 720 Pa (15 psf)
Structural Resistance:	Negative and positive design load = 2875 Pa (60 psf)

AIR-INS INC.

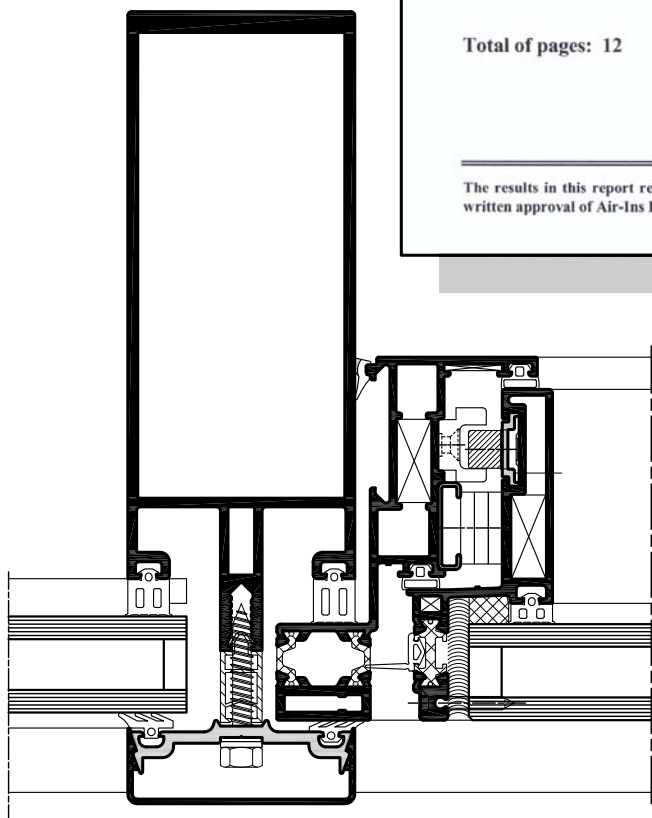
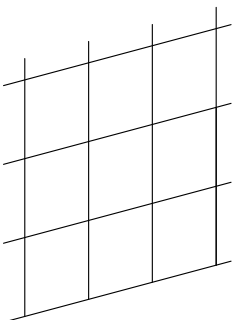
Report: AI-03032-A1
Date: April 14th, 2008

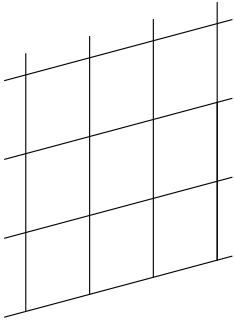
1320 Boul. Lionel-Boulet
Varennes, Québec
J3X 1P7

Total of pages: 12

(Tél): (450) 652-0838
(Fax): (450) 652-7588

The results in this report relate only to the items tested. This report shall not be reproduced except in full, without the written approval of Air-Ins Inc.





AIR-INS inc.

Projet : AI-03032-A1

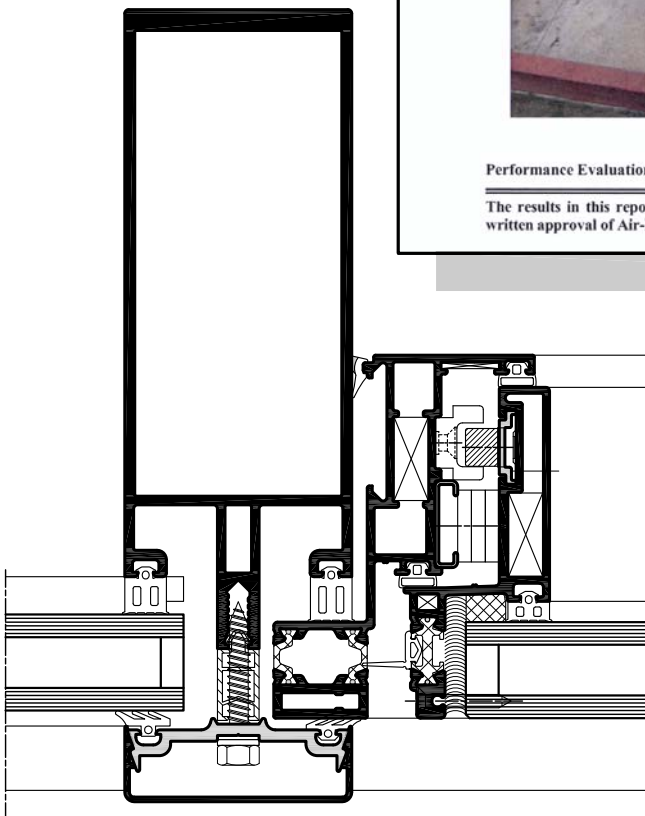
APPENDIX B



B15

Performance Evaluation: Poliedra sky 60 Curtain Wall

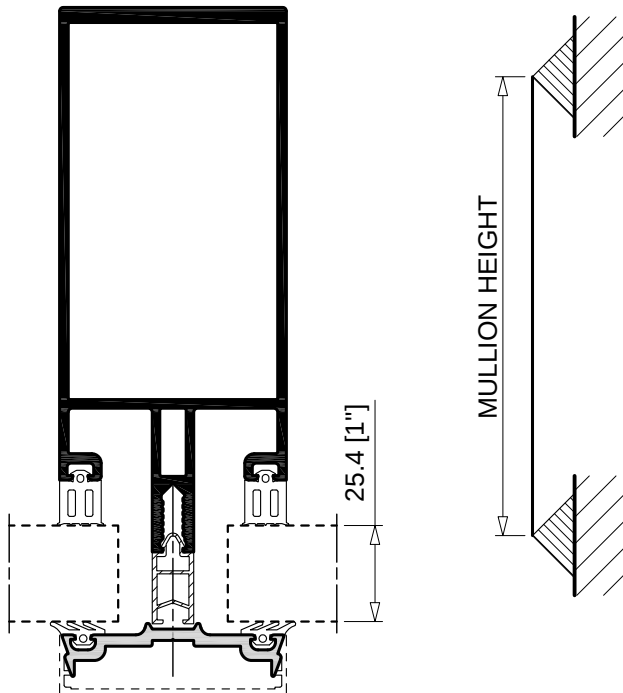
The results in this report relate only to the items tested. This report shall not be reproduced except in full, without the written approval of Air-Ins Inc.





MULLION STATICS

WIND LOAD



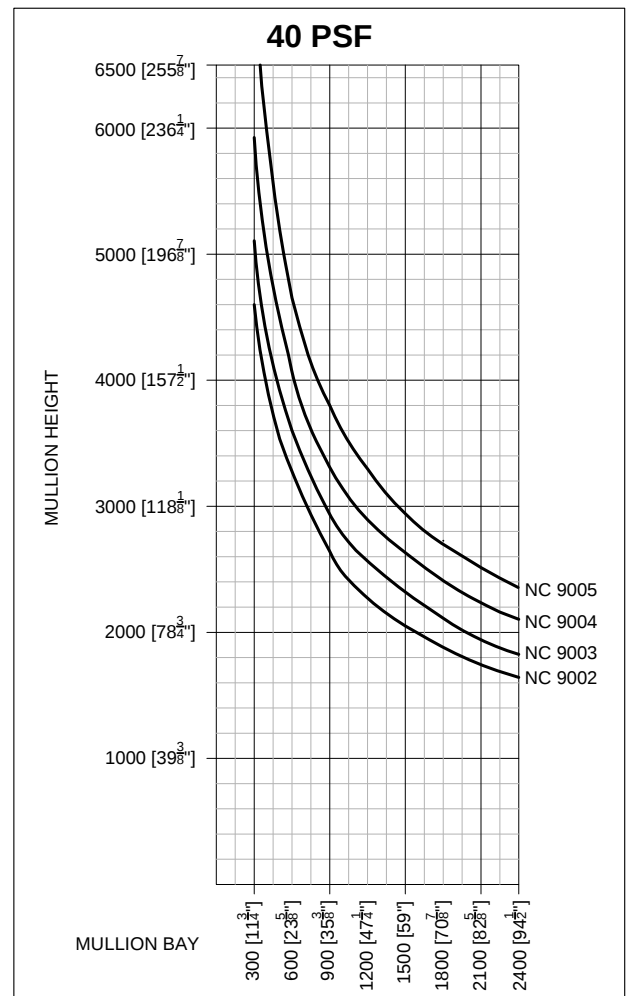
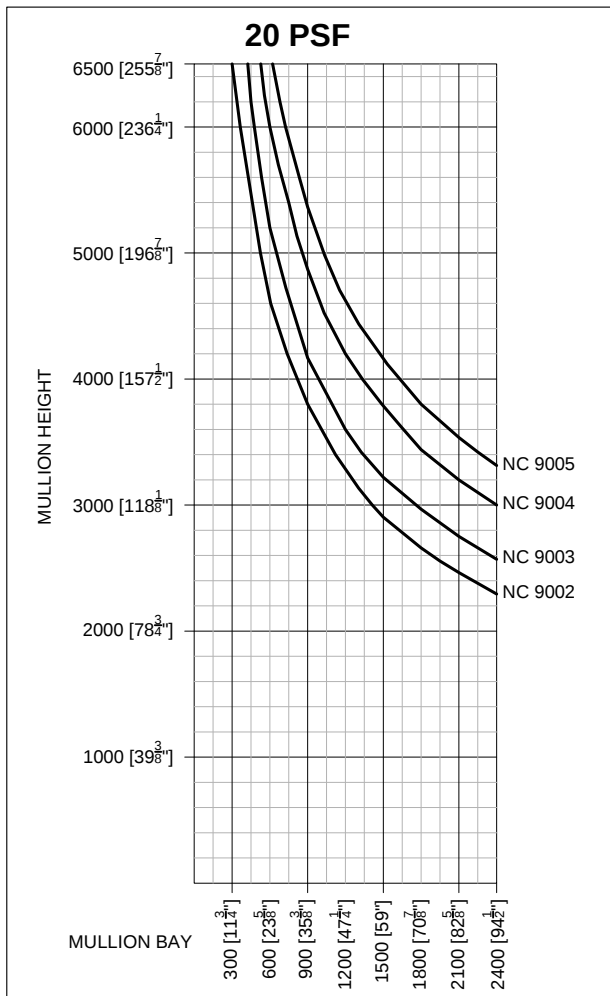
Data based on deflection limitations according to AAMA TIR-A11 of $L/175$ up to 4115mm [162\"] and $L/240 + 6.35 [\frac{1}{4}"]$ above 4115mm [162\"], with maximum deflection of 31.75mm [$1 \frac{1}{4}"]$.

All curves reflect single span conditions, unless noted otherwise.

These curves reflect the limiting value for mullions with horizontals and are based on allowable windload stress for T6 aluminum (104 MPa [15,152 psi]).

A $\frac{4}{3}$ increase in allowable stress is not reflected in these curves. For special applications not covered by these curves, please refer to our Technical Dept.

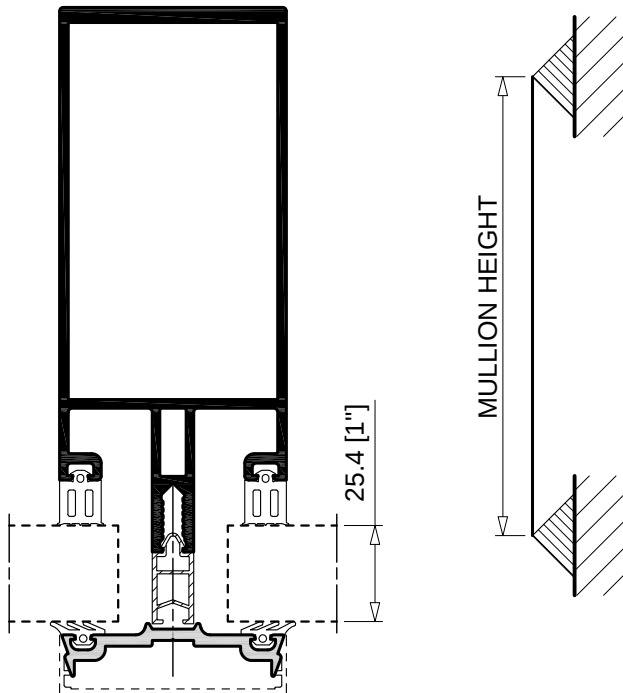
mm [inches]





MULLION STATICS

WIND LOAD



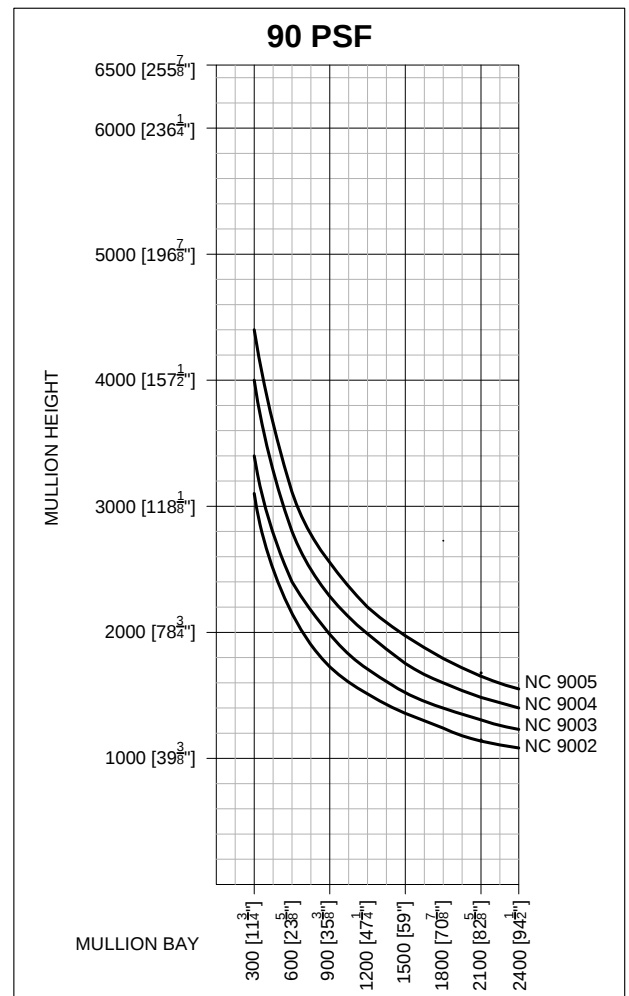
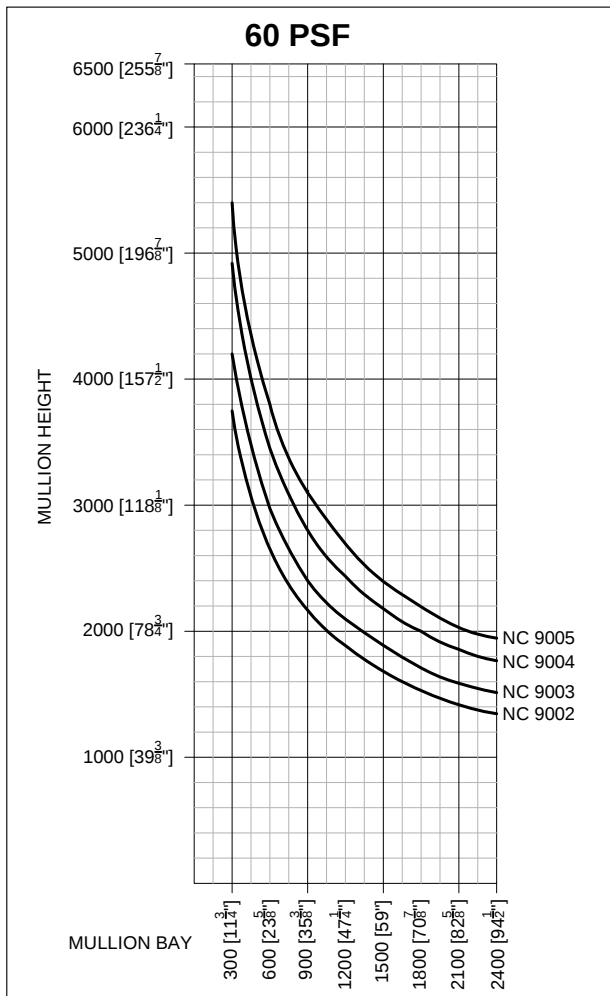
Data based on deflection limitations according to AAMA TIR-A11 of $L/175$ up to 4115mm [162"] and $L/240 + 6.35 [\frac{1}{4}]$ above 4115mm [162"], with maximum deflection of 31.75mm [$1 \frac{1}{4}$ "].

All curves reflect single span conditions, unless noted otherwise.

These curves reflect the limiting value for mullions with horizontals and are based on allowable windload stress for T6 aluminum (104 MPa [15,152 psi]).

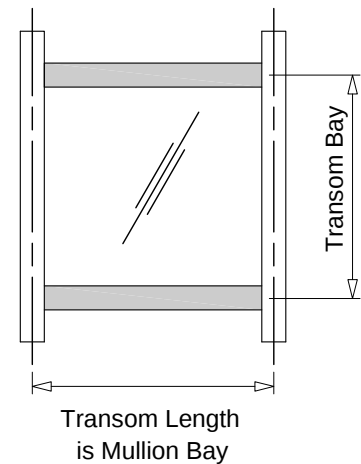
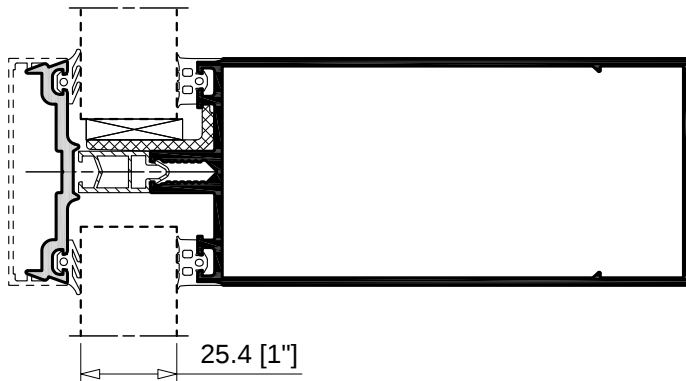
A $\frac{4}{3}$ increase in allowable stress is not reflected in these curves. For special applications not covered by these curves, please refer to our Technical Dept.

mm [inches]



TRANSOM STATICS

WIND LOAD



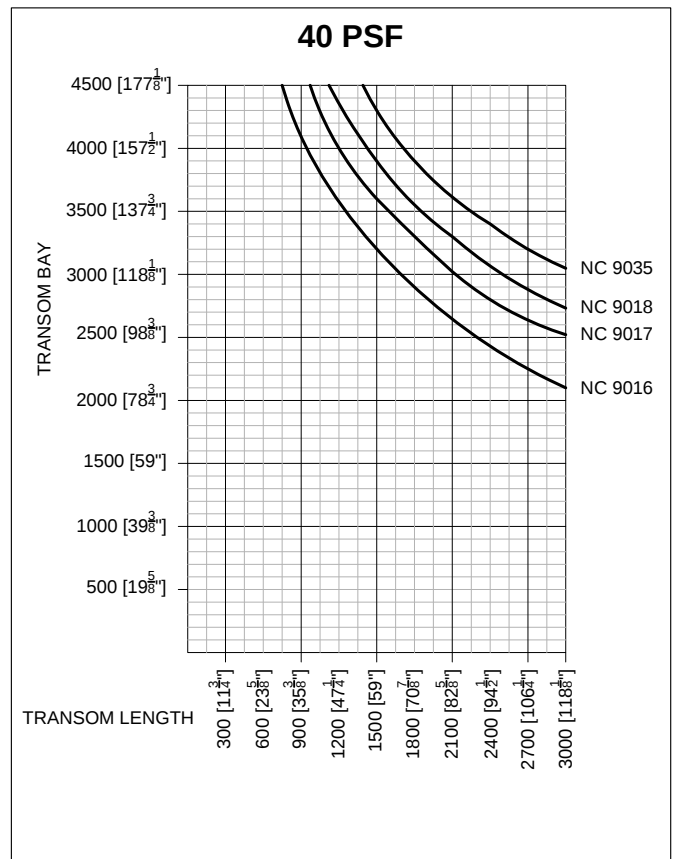
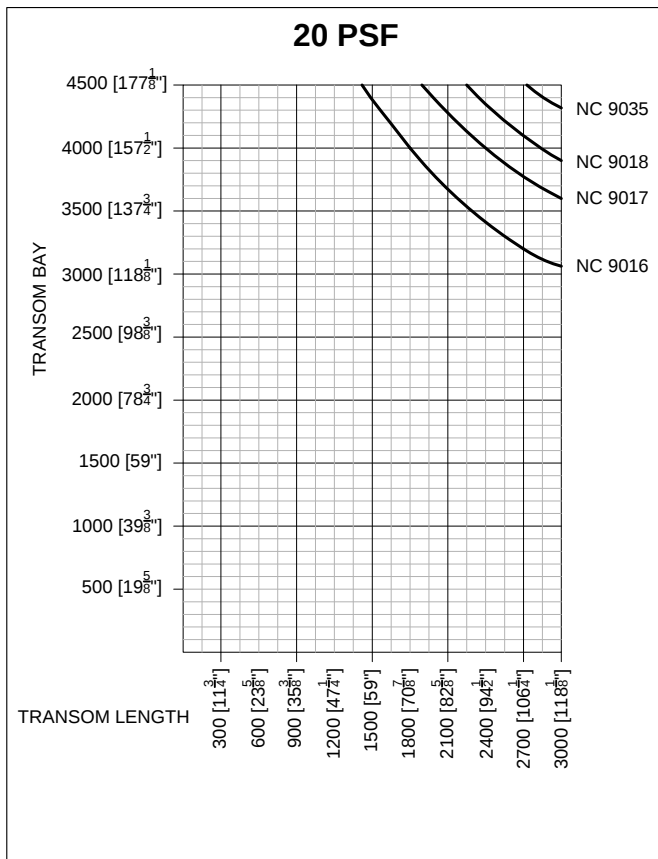
Data based on deflection limitations according to AAMA TIR-A11 of $L/175$ up to 4115mm [162"] and $L/240 + 6.35$ [$\frac{1}{4}$] above 4115mm [162"], with maximum deflection of 31.75mm [$1\frac{1}{4}$ "].

All curves reflect single span conditions, unless noted otherwise.

These curves reflect the limiting value for mullions with horizontals and are based on allowable windload stress for T6 aluminum (104 MPa [15,152 psi]).

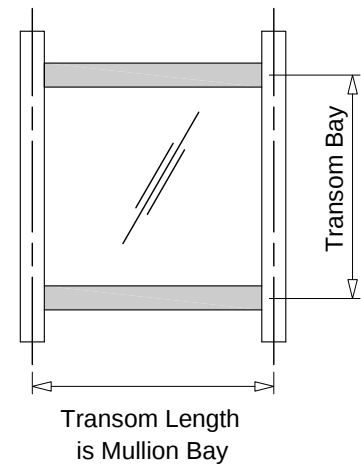
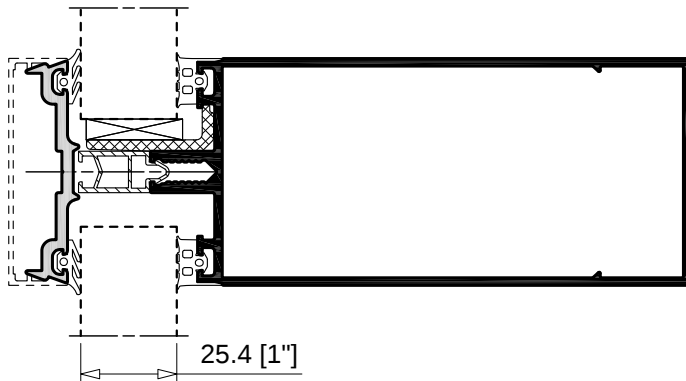
A $\frac{4}{3}$ increase in allowable stress is not reflected in these curves. For special applications not covered by these curves, please refer to our Technical Dept.

mm [inches]



TRANSOM STATICS

WIND LOAD



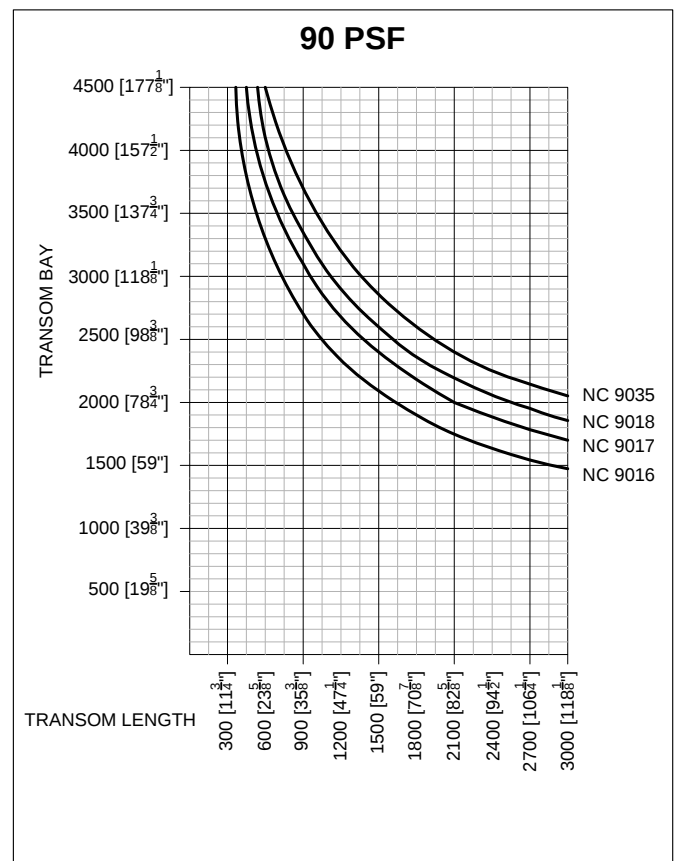
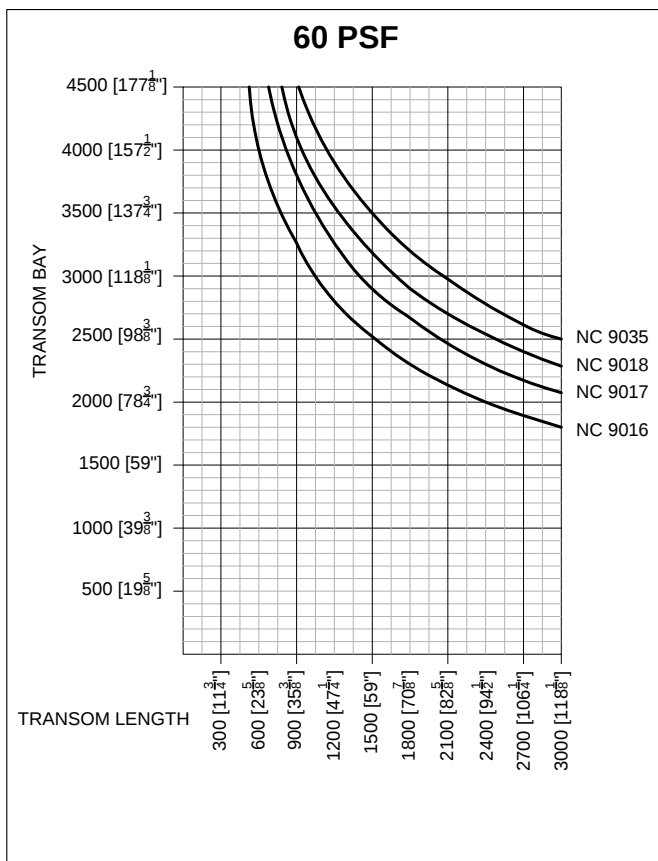
Data based on deflection limitations according to AAMA TIR-A11 of $L/175$ up to 4115mm [162"] and $L/240 + 6.35$ [$\frac{1}{4}$] above 4115mm [162"], with maximum deflection of 31.75mm [$1\frac{1}{4}$ "].

All curves reflect single span conditions, unless noted otherwise.

These curves reflect the limiting value for mullions with horizontals and are based on allowable windload stress for T6 aluminum (104 MPa [15,152 psi]).

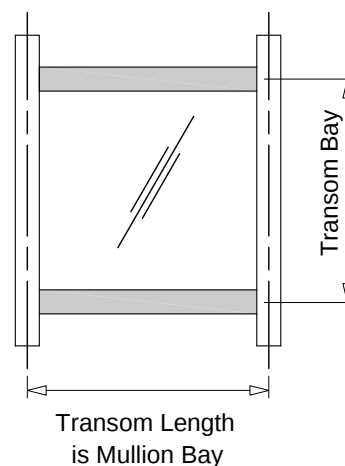
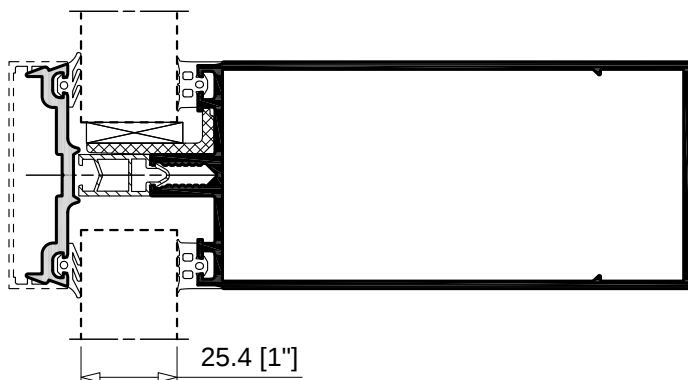
A $\frac{4}{3}$ increase in allowable stress is not reflected in these curves. For special applications not covered by these curves, please refer to our Technical Dept.

mm [inches]

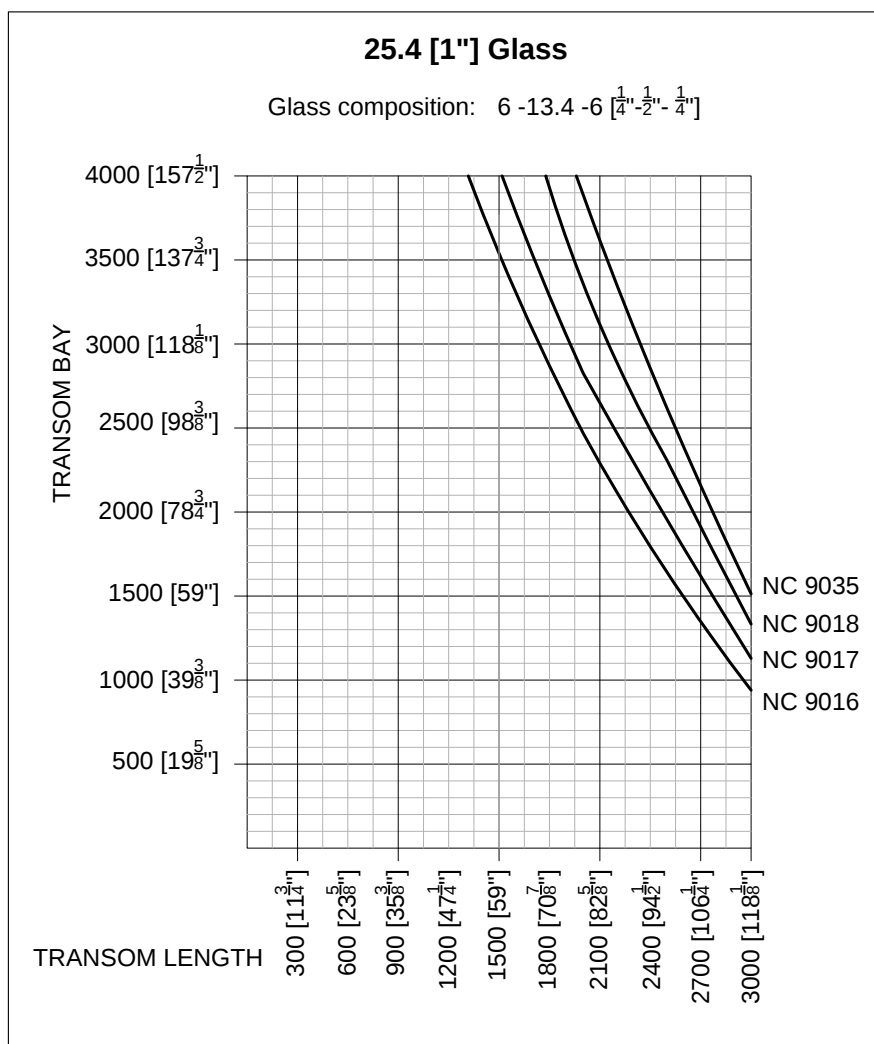


TRANSOM STATICS

DEAD LOAD



Transom maximum deflection allowed is 3.2mm [$\frac{1}{8}$ "]

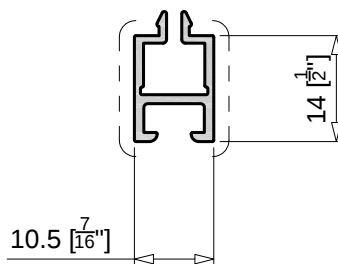


mm [inches]



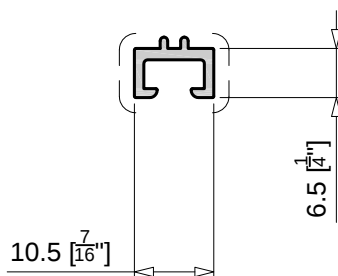
SECTION	NC3849	J_X J_Y cm ⁴	W_X W_Y cm ³	UTILIZATION
	BAR LENGTH m [ft]	-	-	SPACER
	6500 [21'-3 7/8"]	OUT. PERIMETER		EXPOSED SURFACE
		105 [4 1/8"]	— — —	28 [1 1/8"]

NC 3849



SECTION	NC3898	J_X J_Y cm ⁴	W_X W_Y cm ³	UTILIZATION
	BAR LENGTH m [ft]	-	-	SPACER
	6500 [21'-3 7/8"]	OUT. PERIMETER		EXPOSED SURFACE
		54 [2 1/8"]	— — —	14 [9/16"]

NC 3898



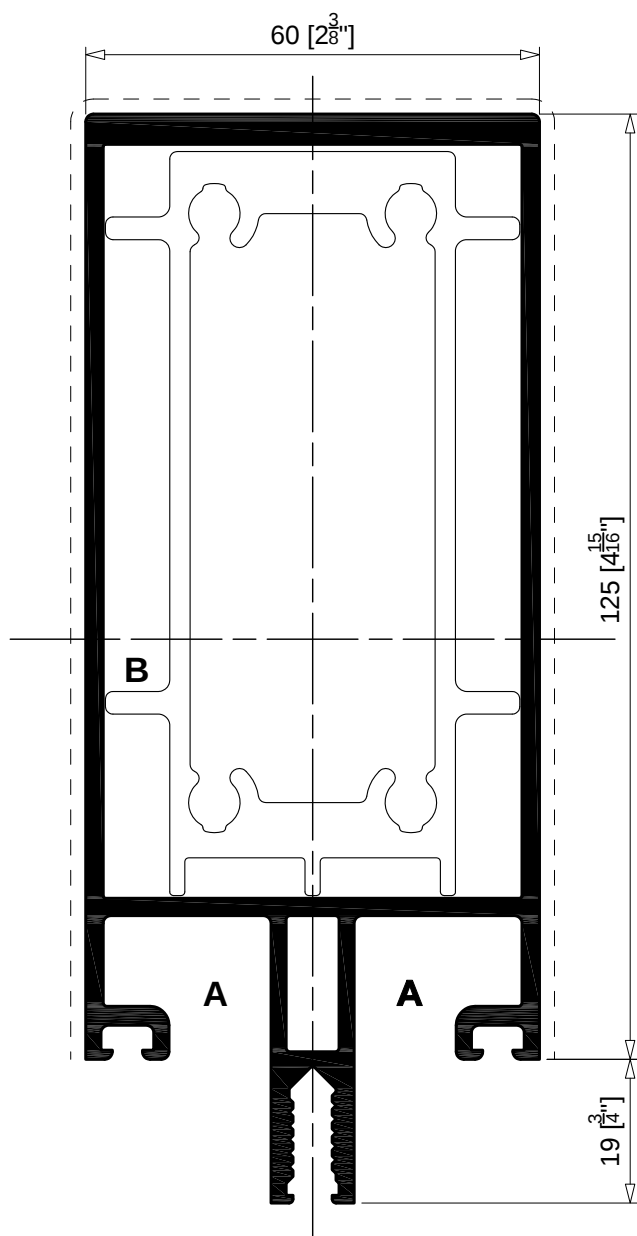
mm
[inches]

SCALE 1:1

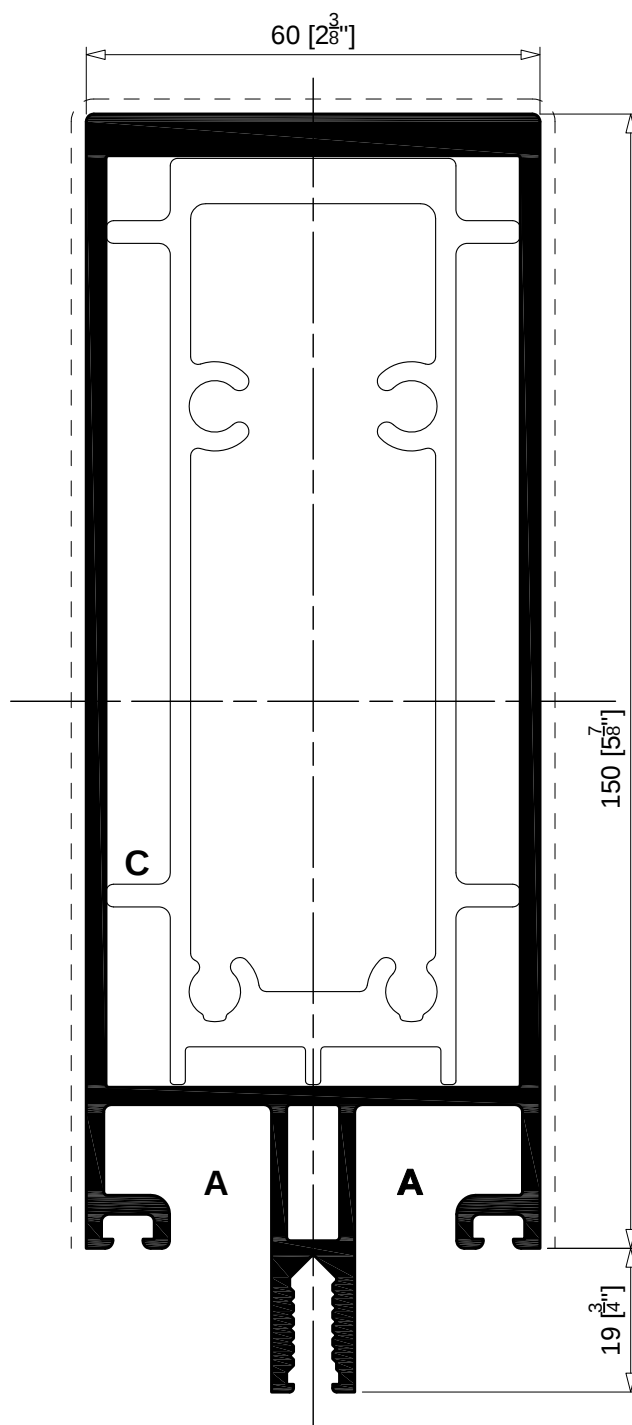


NC 9003

NC 9004



SECTION	NC9003	J_X J_Y	W_X W_Y	UTILIZATION
		cm ⁴	cm ³	
	BAR LENGTH m [ft]	276.131 60.395	37.033 20.132	MULLION
	6500	OUT. PERIMETER		EXPOSED SURFACE
	[21'-3 7/8"]	580 [22 13/16"]		— — — 309 [12 3/16"]



SECTION	NC9004	J_X J_Y	W_X W_Y	UTILIZATION
		cm ⁴	cm ³	
	BAR LENGTH m [ft]	483.076 77.707	52.886 25.902	MULLION
	6500	OUT. PERIMETER		EXPOSED SURFACE
	[21'-3 7/8"]	630 [24 13/16"]		— — — 359 [14 1/8"]

A	B	C
Ma 6241 	Ma 6228 	Ma 6229

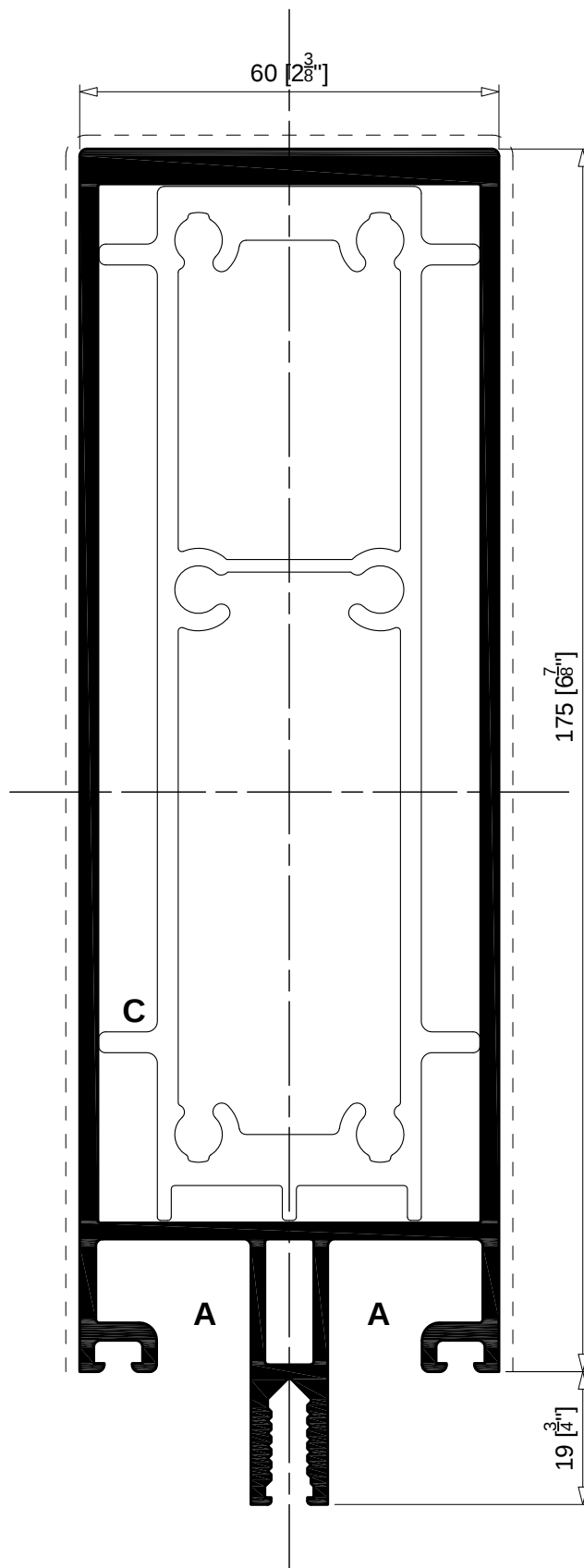
mm
[inches]

SCALE 1:1

**NC 9005**

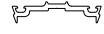
SECTION	NC9005	J_x J_y cm ⁴	W_x W_y cm ³	UTILIZATION
	BAR LENGTH m [ft]	677.337 87.737	66.419 29.246	MULLION
	6500 [21'-3 7/8"]	OUT. PERIMETER		EXPOSED SURFACE
		680 [26 3/4"]		— — — 409 [16 1/8"]

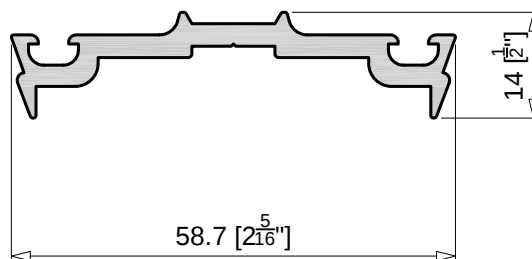
A	D
Ma 6241	Ma 6230

mm
[inches]

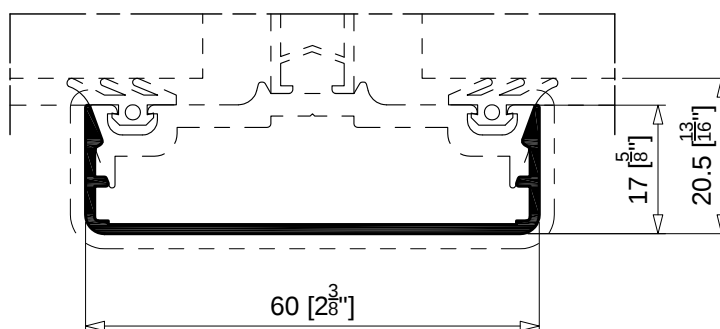
SCALE 1:1

**NC 9008**

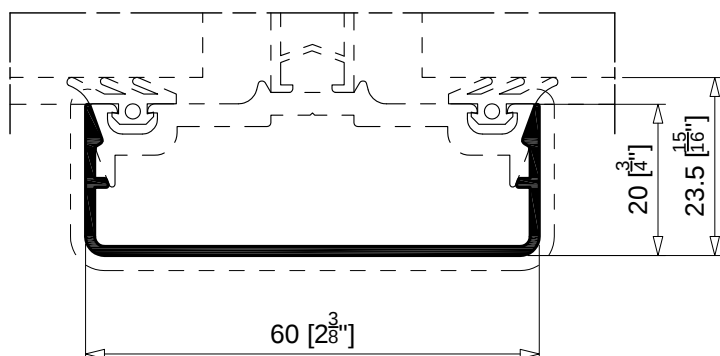
SECTION	NC9008	J_X J_Y cm ⁴	W_X W_Y cm ³	UTILIZATION
	BAR LENGTH m [ft]	-	-	PRESSURE PLATE
	6500 [21'-3 $\frac{7}{8}$ "]	OUT. PERIMETER		EXPOSED SURFACE
		178 [7"]		— — — 0

**NC 9009**

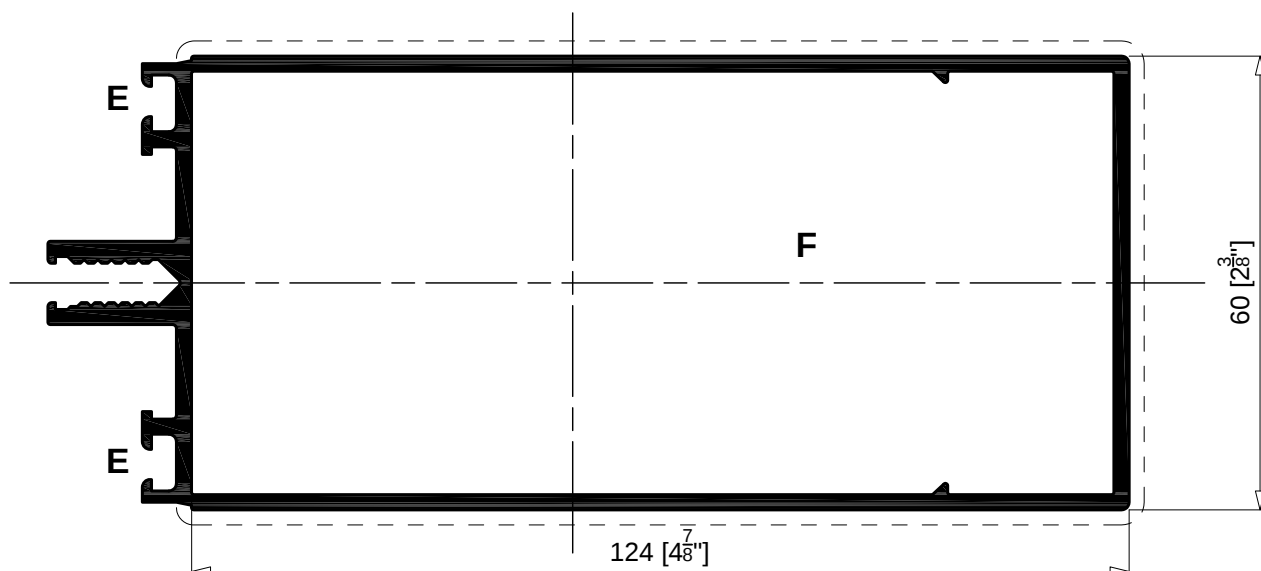
SECTION	NC9009	J_X J_Y cm ⁴	W_X W_Y cm ³	UTILIZATION
	BAR LENGTH m [ft]	-	-	COVER
	6500 [21'-3 $\frac{7}{8}$ "]	OUT. PERIMETER		EXPOSED SURFACE
		189 [7 1/16"]		— — — 92 [3 5/8"]

**NC 9010**

SECTION	NC9010	J_X J_Y cm ⁴	W_X W_Y cm ³	UTILIZATION
	BAR LENGTH m [ft]	-	-	COVER
	6500 [21'-3 $\frac{7}{8}$ "]	OUT. PERIMETER		EXPOSED SURFACE
		201 [7 15/16"]		— — — 98 [3 7/8"]

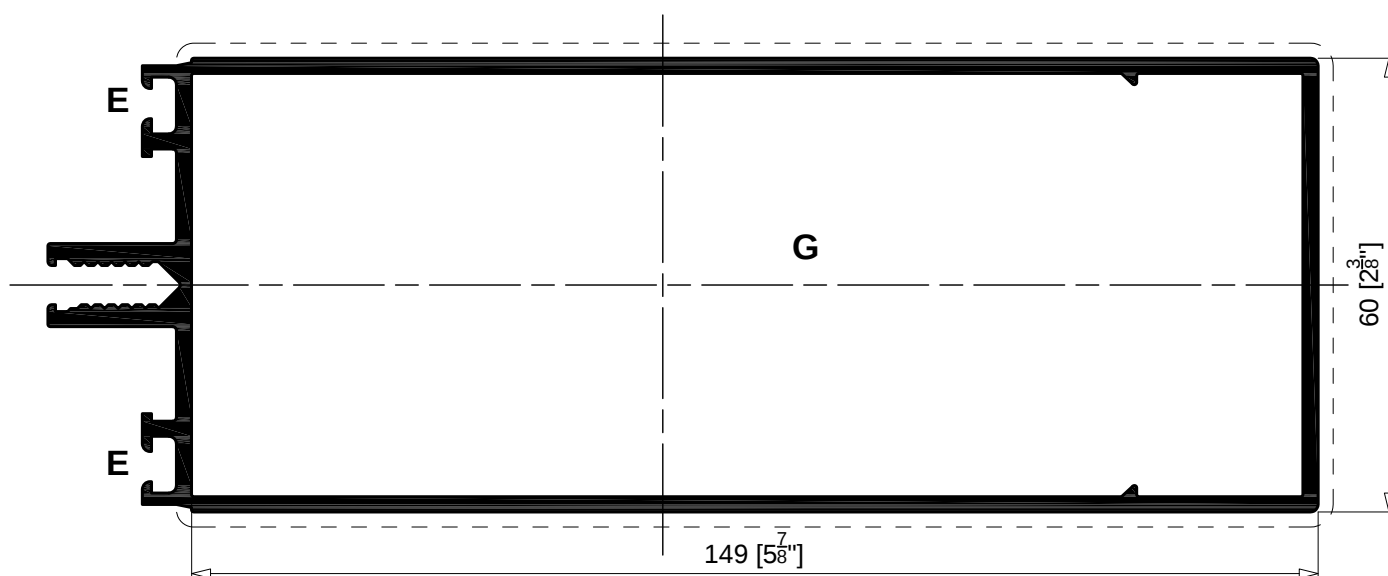
mm
[inches]

SCALE 1:1



SECTION	NC9017	J_X J_Y cm^4	W_X W_Y cm^3	UTILIZATION
	BAR LENGTH m [ft]	50.651 208.201	16.883 28.292	TRANSOM
	6500 [21'-3 7/8"]	OUT. PERIMETER 493 [19 15/16"]	EXPOSED SURFACE — — — 307 [12 1/8"]	

NC 9017

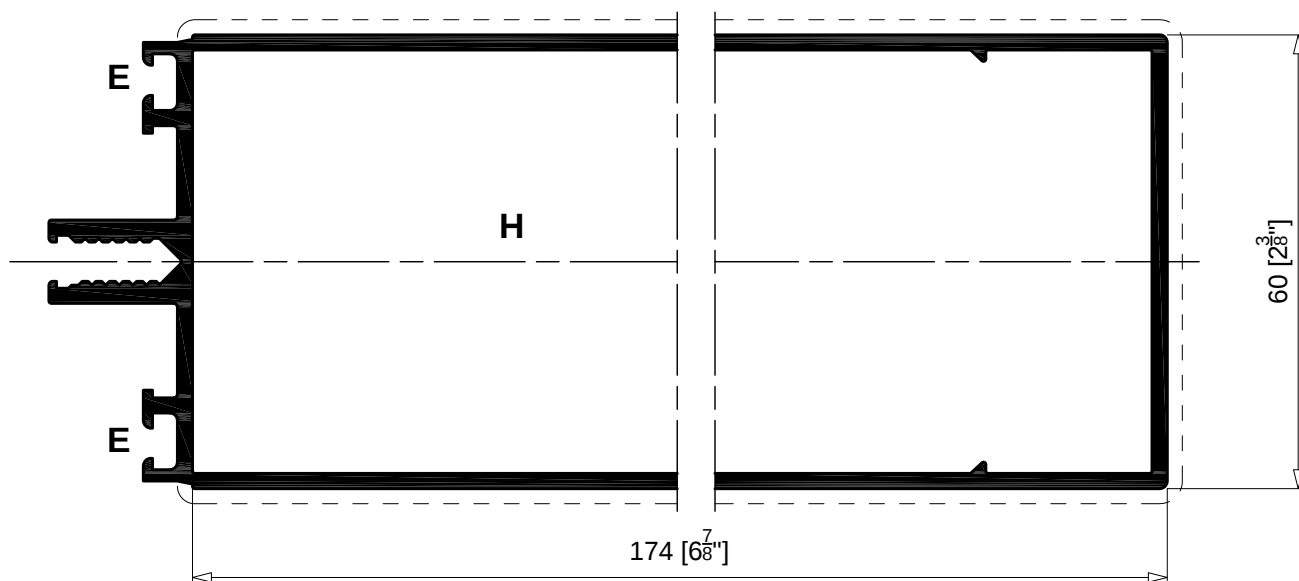


SECTION	NC9018	J_X J_Y cm^4	$W_{X_{cm^3}}$ $W_{Y_{cm^3}}$	UTILIZATION
	BAR LENGTH m [m]	59.064 317.741	19.688 36.657	TRANSOM
	6500 [21' 38"]	OUT. PERIMETER	EXPOSED SURFACE	
		543 [21' 38"]	— — — 357 [14' 6"]	

NC 9018

E		F					G				
											
Ma 5916	Ma 6206	Ma 4233	Ma 6237	Ma 6238	Ma 6239 Mg 512d	Ma 6240	Ma 4233	Ma 6278	Ma 6283	Ma 6284	Ma 6285 Mg 512d

mm
[inches] SCALE 1:1

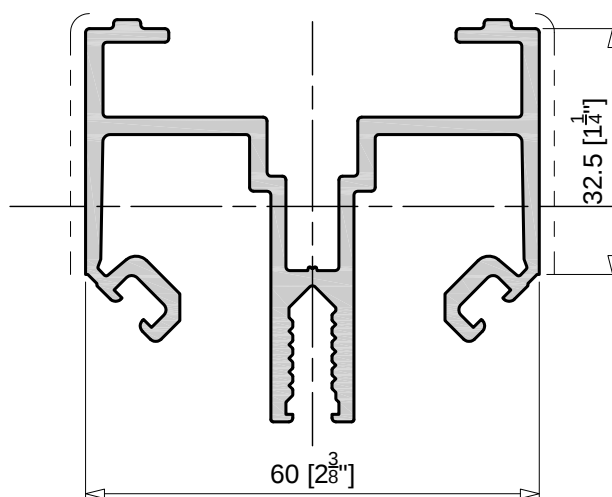


SECTION	NC9035	J_X J_Y	W_X W_Y	UTILIZATION
	BAR LENGTH m [ft]	67.477 457.371	22.492 45.894	TRANSOM
	6500 [21'-3 7/8"]	OUT. PERIMETER	EXPOSED SURFACE	
		593 [23 3/8"]	— — — 407 [16"]	

NC 9035

SECTION	NC3849	J_X J_Y	W_X W_Y	UTILIZATION
	BAR LENGTH m [ft]	- -	- -	CORNER MULLION CONVERTER
	6500 [21'-3 7/8"]	OUT. PERIMETER	EXPOSED SURFACE	
		525 [20 11/16"]	— — — 66 [2 5/8"]	

NC 9038



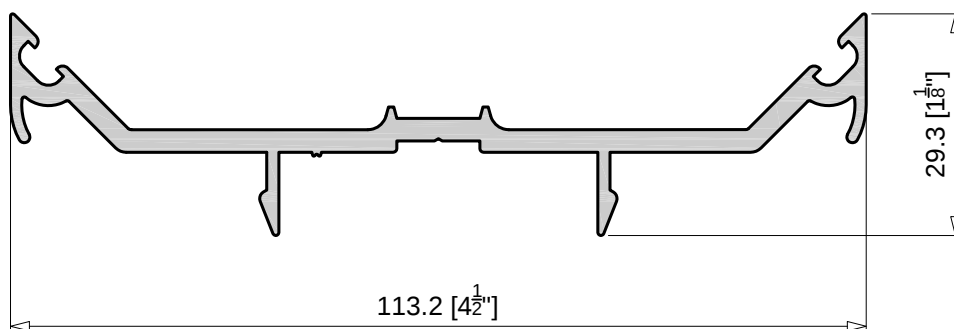
E			H			
					 Mg 512d	
Ma 5916	Ma 6206	Ma 4233	Ma 6286	Ma 6287	Ma 6288 Mg 512d	Ma 6292

mm
[inches]

SCALE 1:1

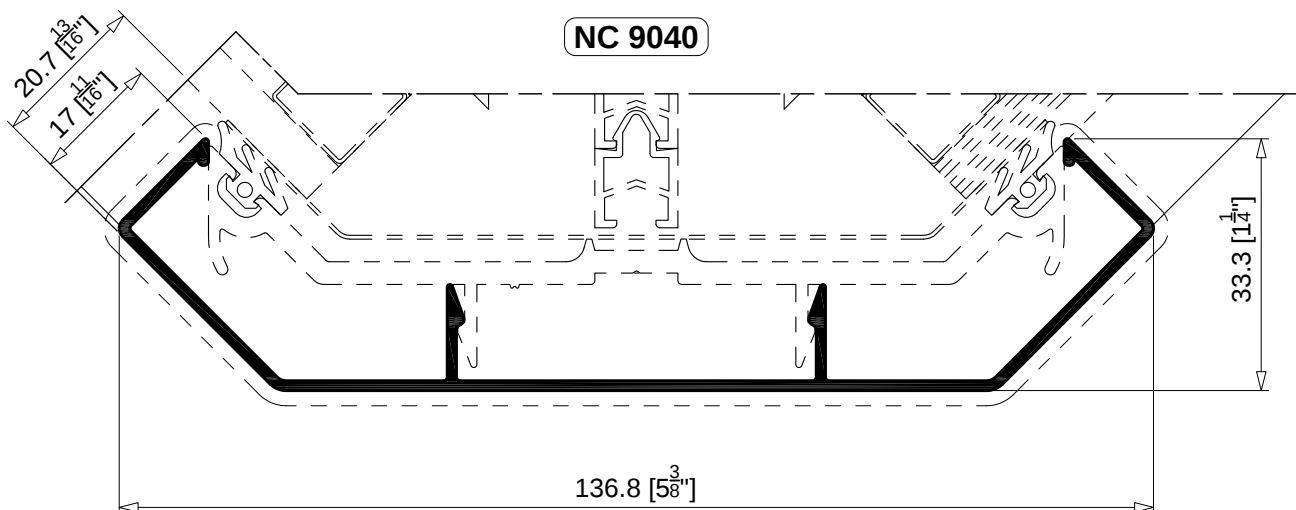


NC 9039



SECTION	NC9039	J_x J_y	W_x W_y	UTILIZATION
	BAR LENGTH m [ft]	-	-	CORNER PRESSURE PLATE
	6500 [21'-3 7/8"]	OUT. PERIMETER	EXPOSED SURFACE	
		364 [14 3/8"]	---	0

NC 9040

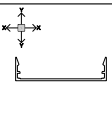


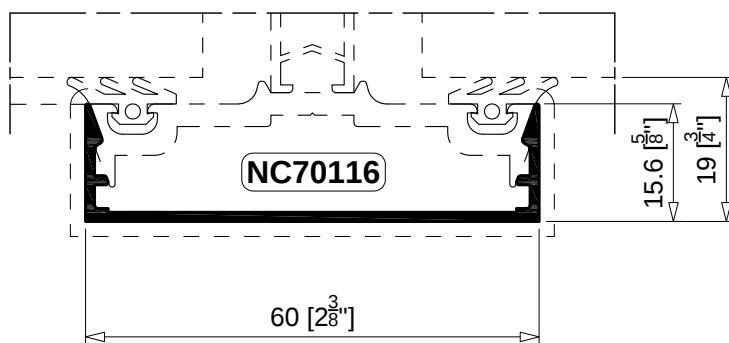
SECTION	NC9040	J_x J_y	W_x W_y	UTILIZATION
	BAR LENGTH m [ft]	-	-	CORNER COVER
	6500 [21'-3 7/8"]	OUT. PERIMETER	EXPOSED SURFACE	
		426 [16 3/4"]	---	188 [7 3/8"]

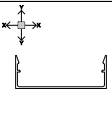
mm
[inches]

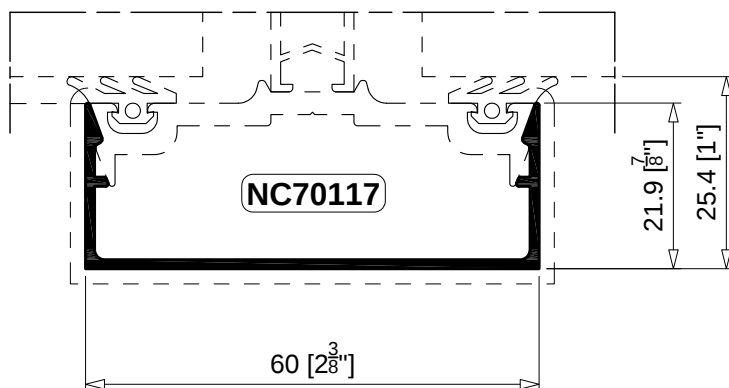
SCALE 1:1

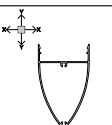


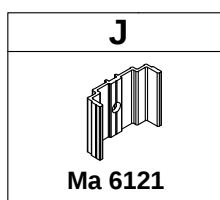
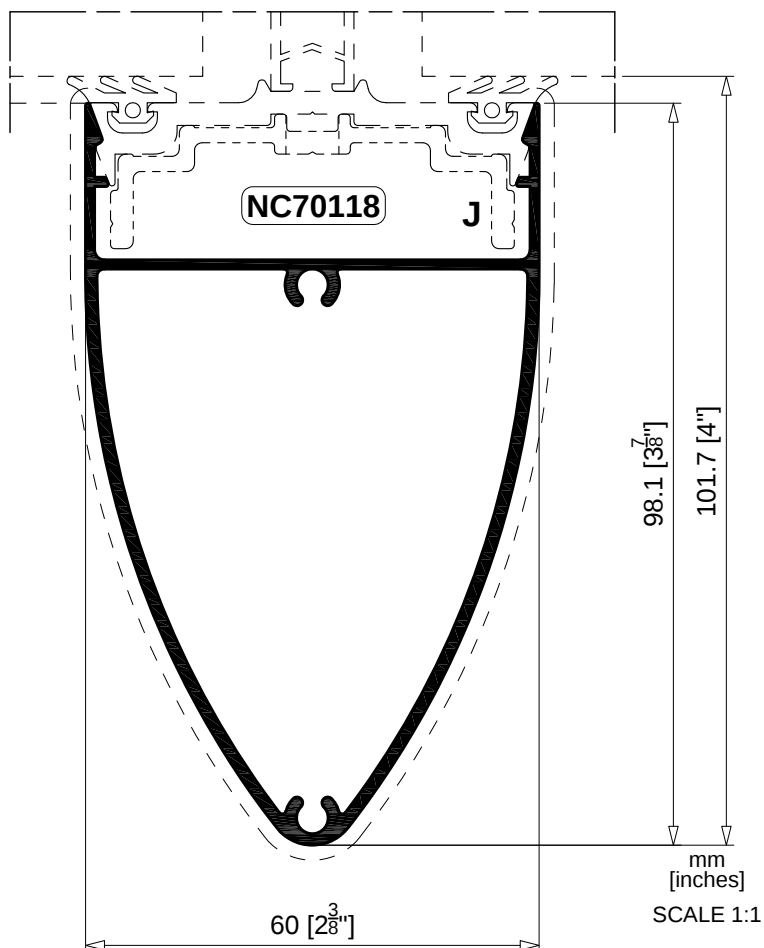
SECTION	NC70116	J_X J_Y cm ⁴	W_X W_Y cm ³	UTILIZATION
	BAR LENGTH m [ft]	-	-	COVER
	6500 [21'-3 7/8"]	OUT. PERIMETER		EXPOSED SURFACE
		186 [7 1/8"]		— — — 91 [3 5/8"]

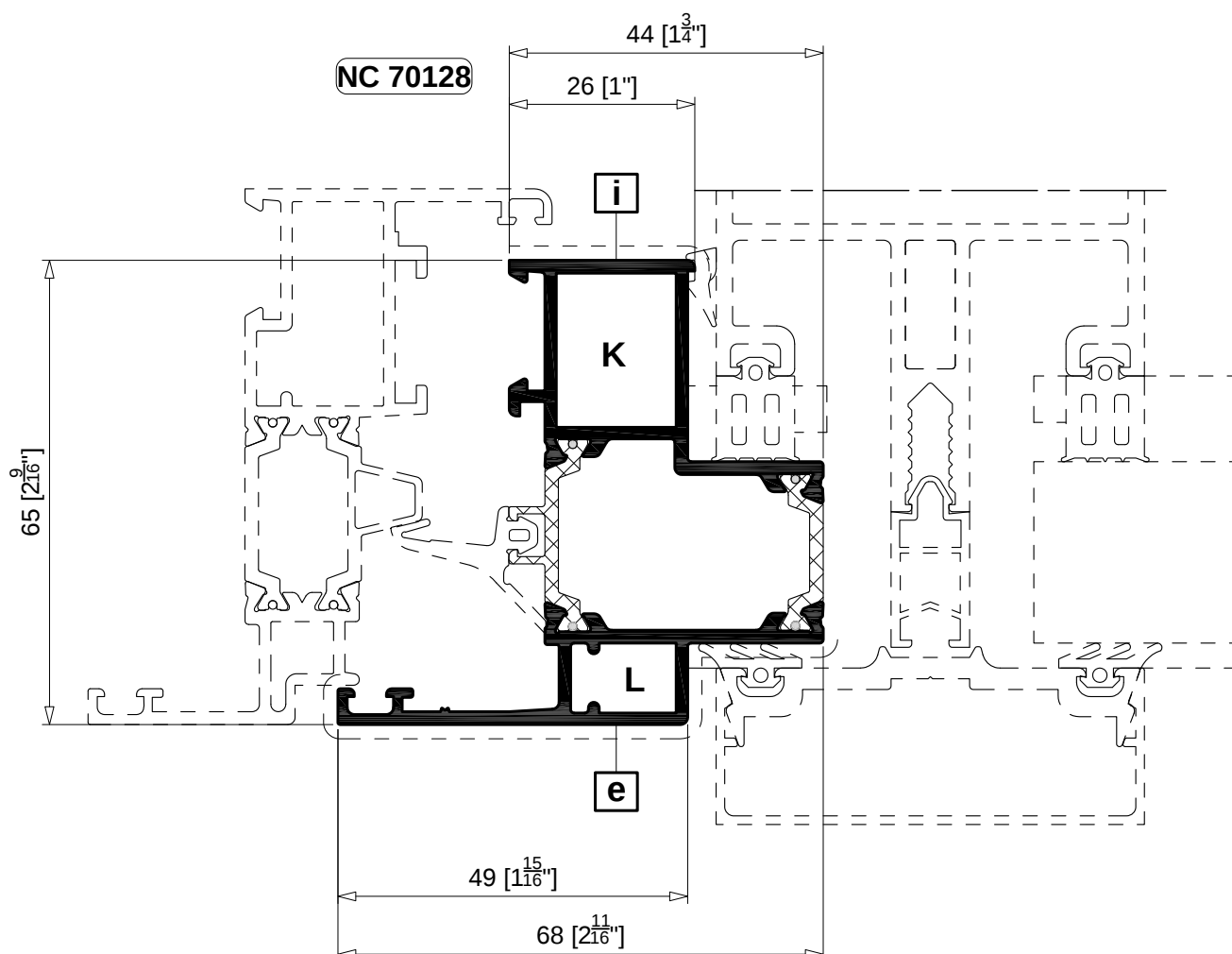


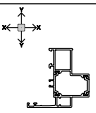
SECTION	NC70117	J_X J_Y cm ⁴	W_X W_Y cm ³	UTILIZATION
	BAR LENGTH m [ft]	-	-	COVER
	6500 [21'-3 7/8"]	OUT. PERIMETER		EXPOSED SURFACE
		210 [8 1/4"]		— — — 104 [4 1/8"]



SECTION	NC70118	J_X J_Y cm ⁴	W_X W_Y cm ³	UTILIZATION
	BAR LENGTH m [ft]	-	-	COVER
	6500 [21'-3 7/8"]	OUT. PERIMETER		EXPOSED SURFACE
		320 [12 5/8"]		— — — 214 [8 7/16"]

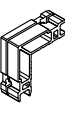
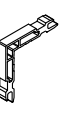




SECTION	NC70128	J_X J_Y cm ⁴	W_X W_Y cm ³	UTILIZATION
	BAR LENGTH m [ft]	22,746 10,95	6,097 2,811	NC65STH FRAME
	6500 [21'-3 7/8"]	OUT. PERIMETER		EXPOSED SURFACE
		319 [12 5/16"]		— — — 111 [4 3/8"]

COMPONENTS

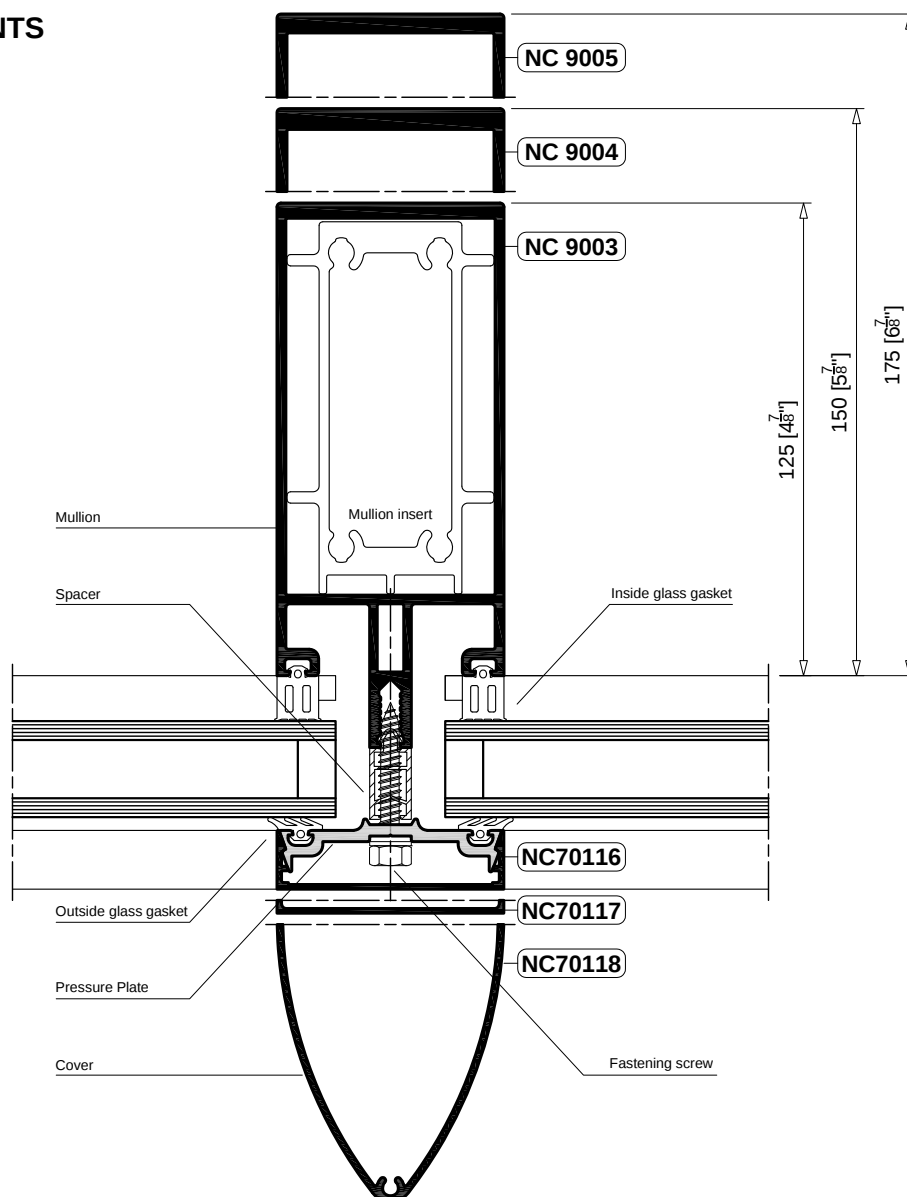
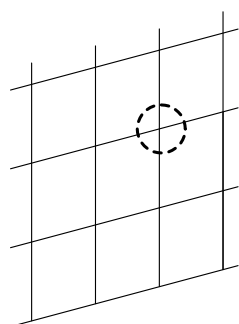
SHAPE	CODE	OUT. PERIMETER	EXPOSED SURFACE
i 	NC70126	196 [7 11/16"]	— — — 27 [1 1/16"]
e 	NC70127	213 [8 3/8"]	— — — 84 [3 5/16"]
	971705		
	966605		

K	L
 x 2 Ma 7503 Ma 5550	 Ma 7550

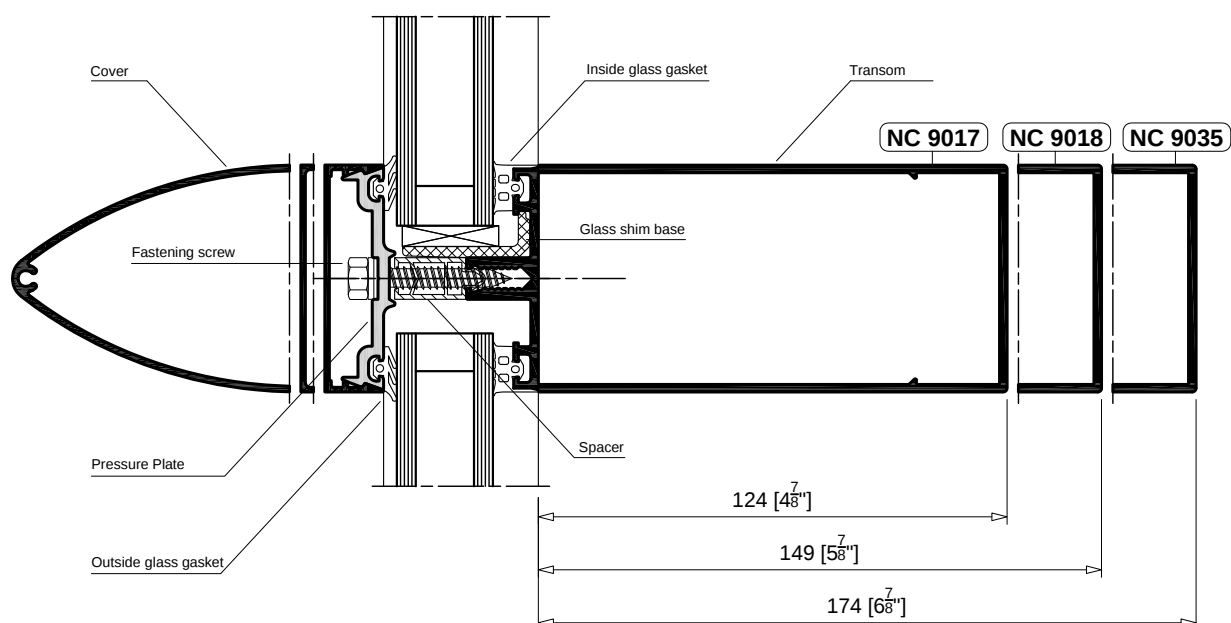
mm
[inches]
SCALE 1:1

SYSTEM COMPONENTS

MULLION SECTION



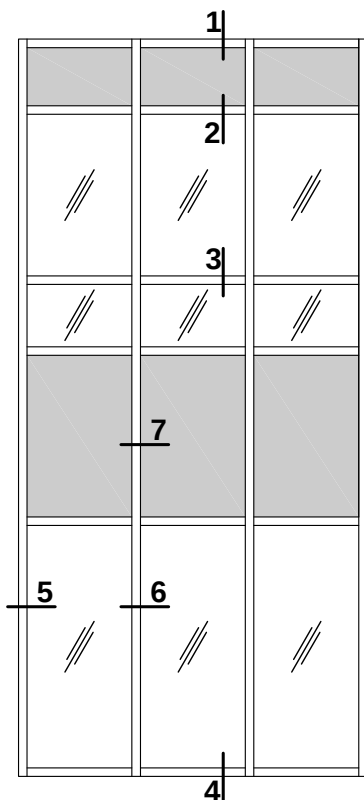
TRANSOM SECTION





MAIN SECTIONS

125 mm [$4\frac{7}{8}$ "] MULLION

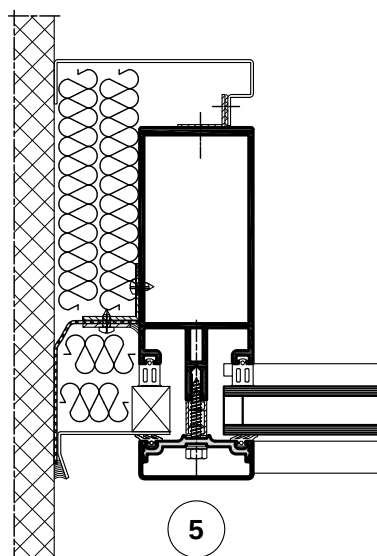
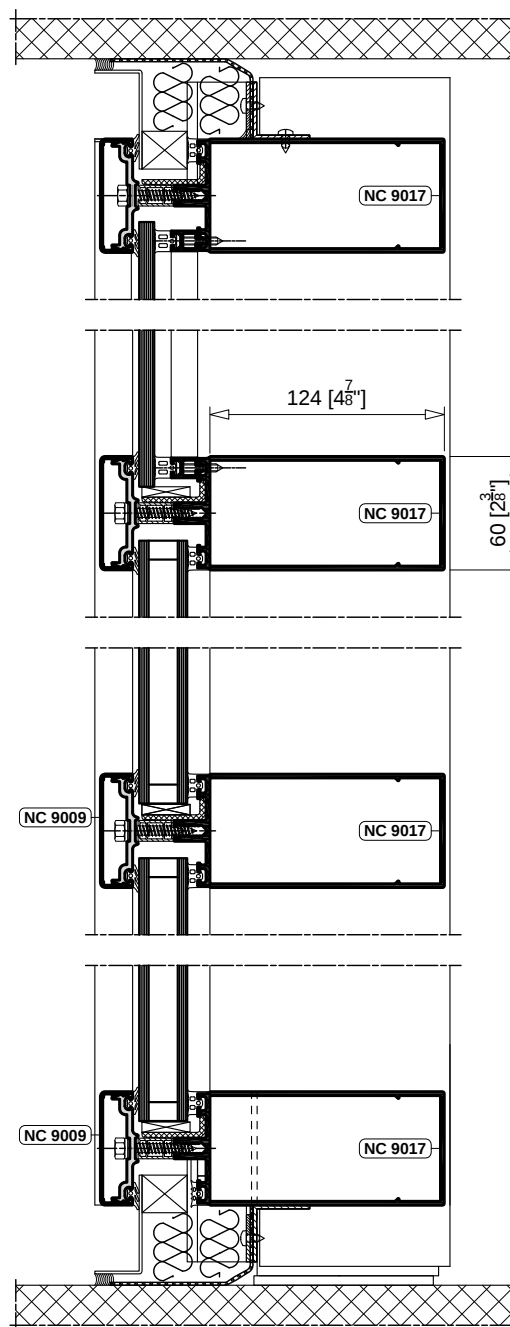


1

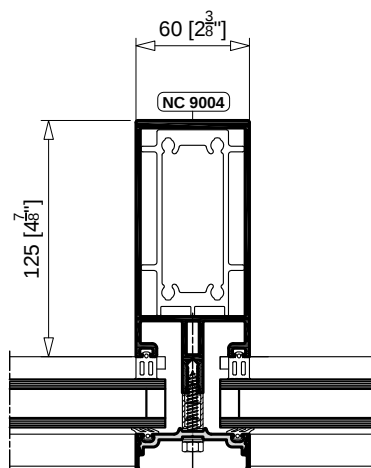
2

3

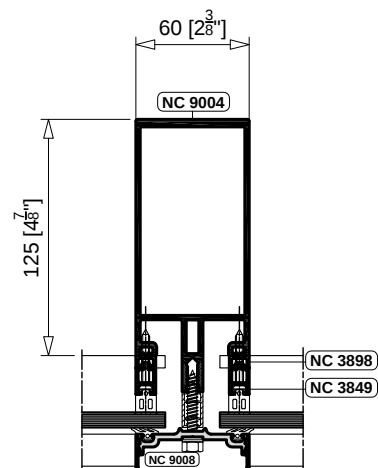
4



5



6



7

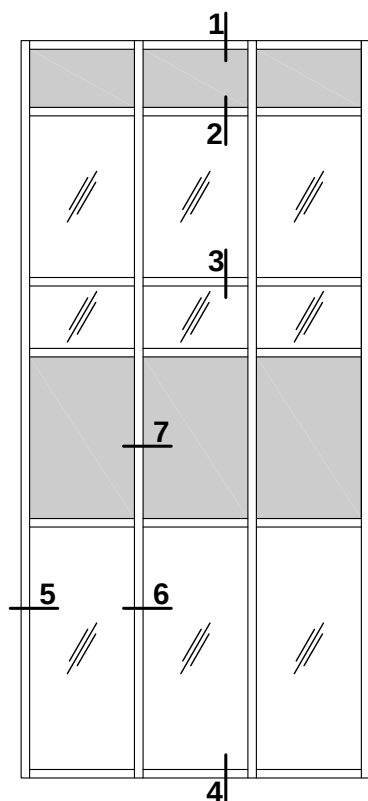
mm
[inches]

SCALE 1:4



MAIN SECTIONS

150 mm [$5\frac{7}{8}$] MULLION

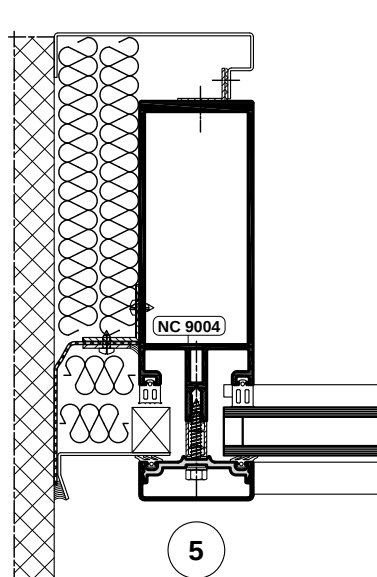
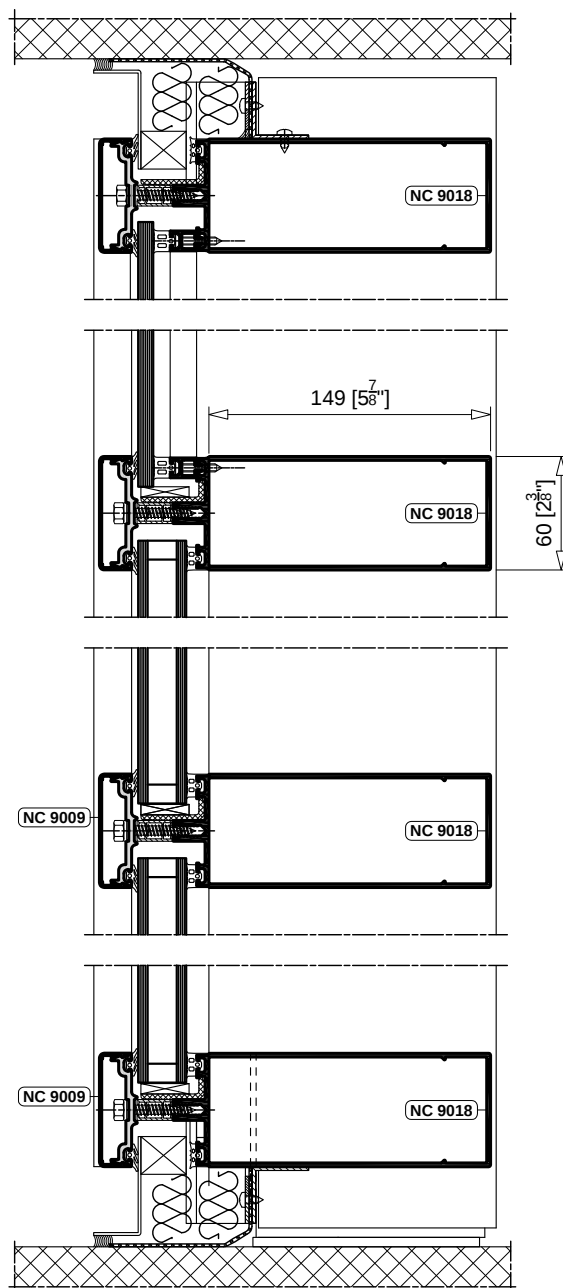


1

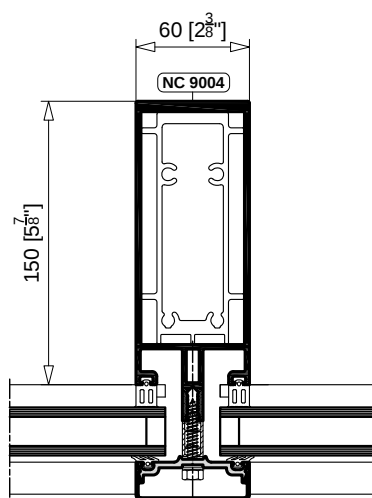
2

3

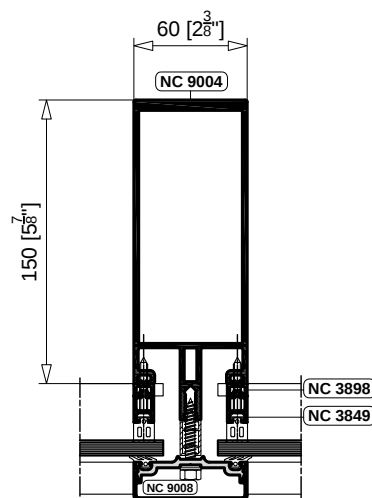
4



5



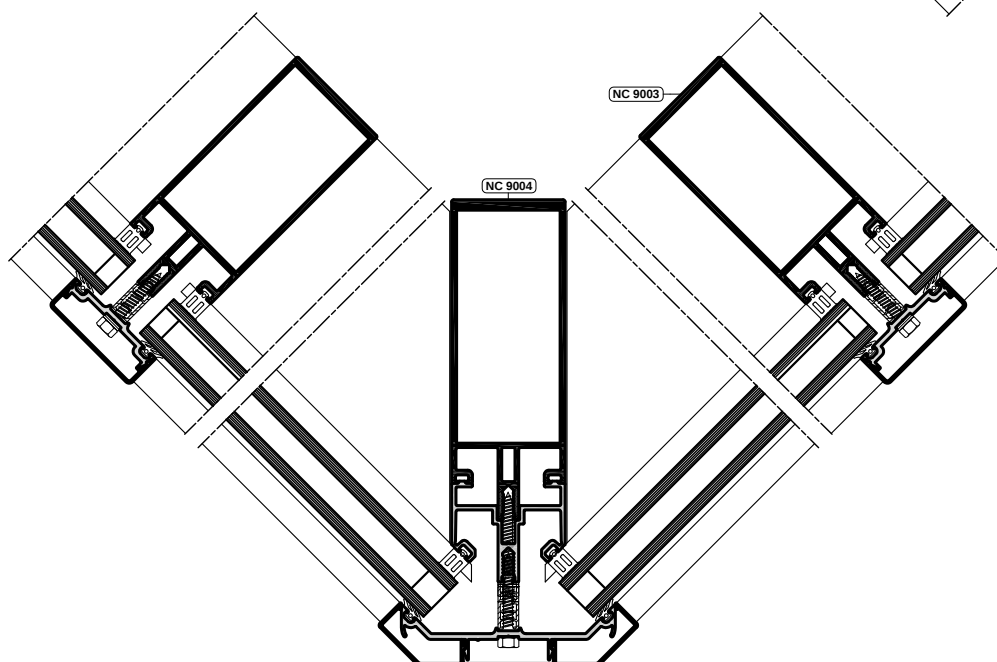
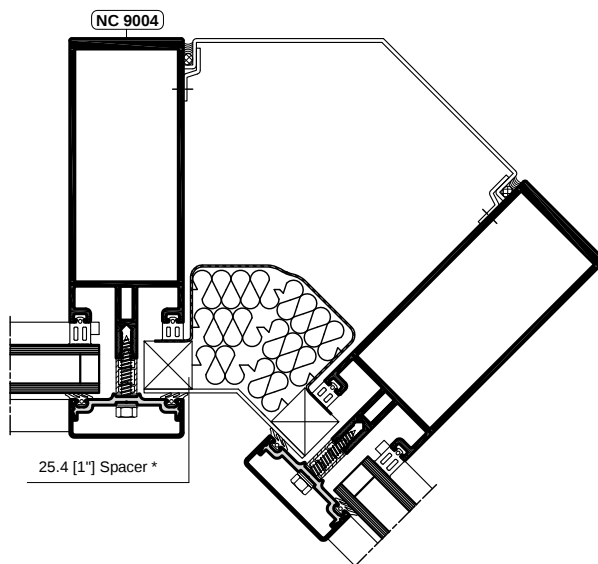
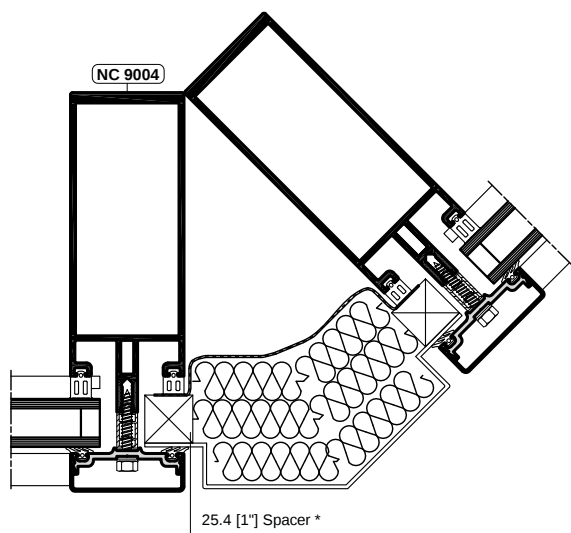
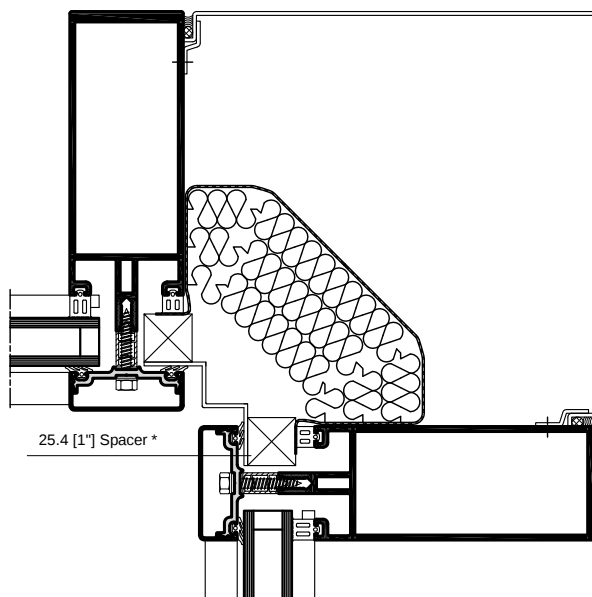
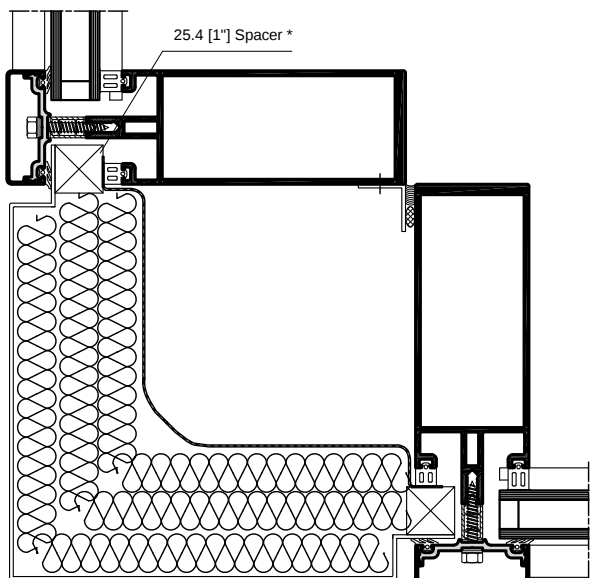
6



7

mm
[inches]

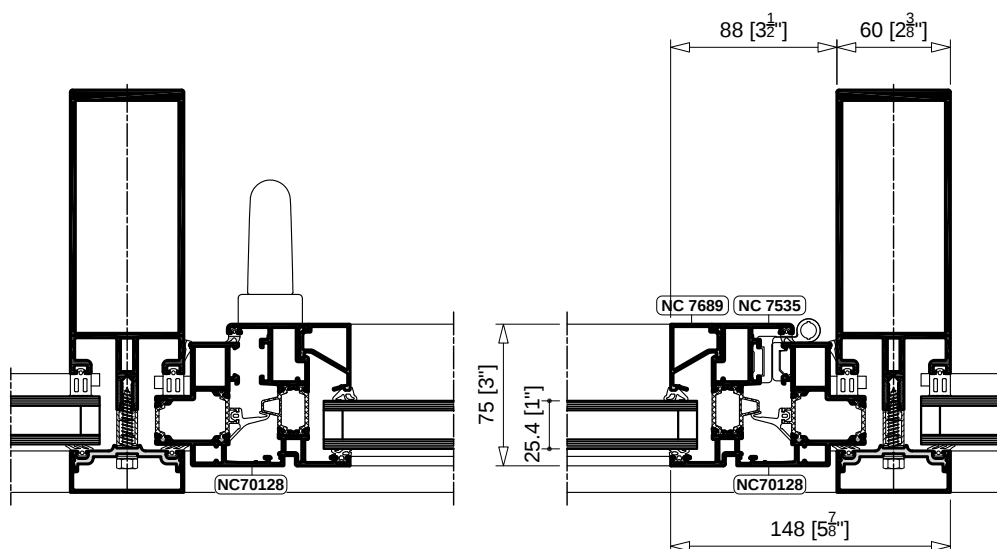
SCALE 1:4



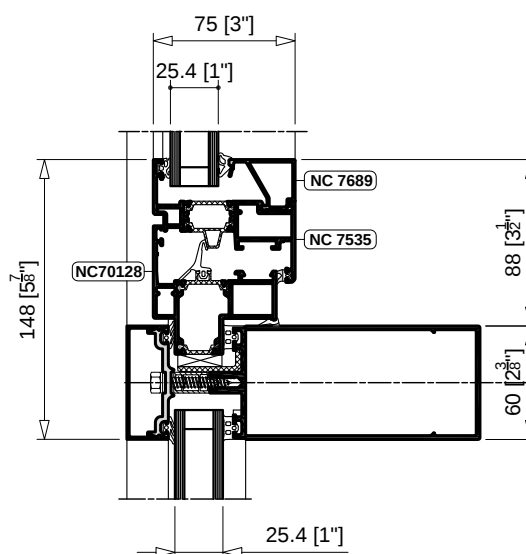
*: Not supplied by Metra

OPERABLE NC 65 STH

OPENING INWARD



HORIZONTAL SECTION

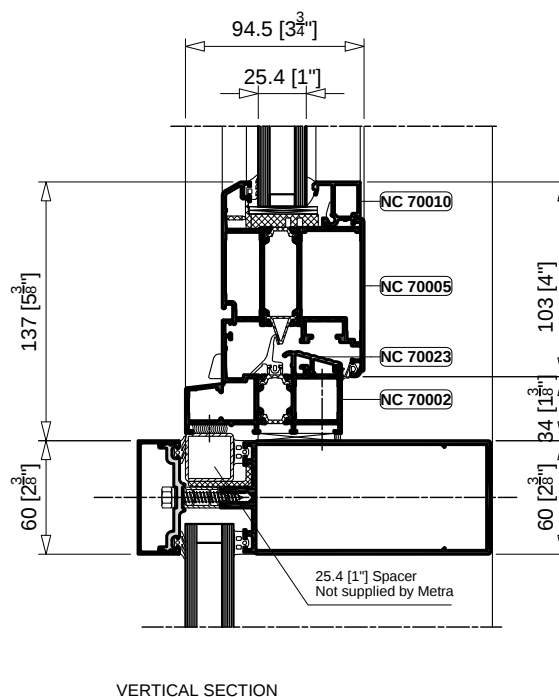
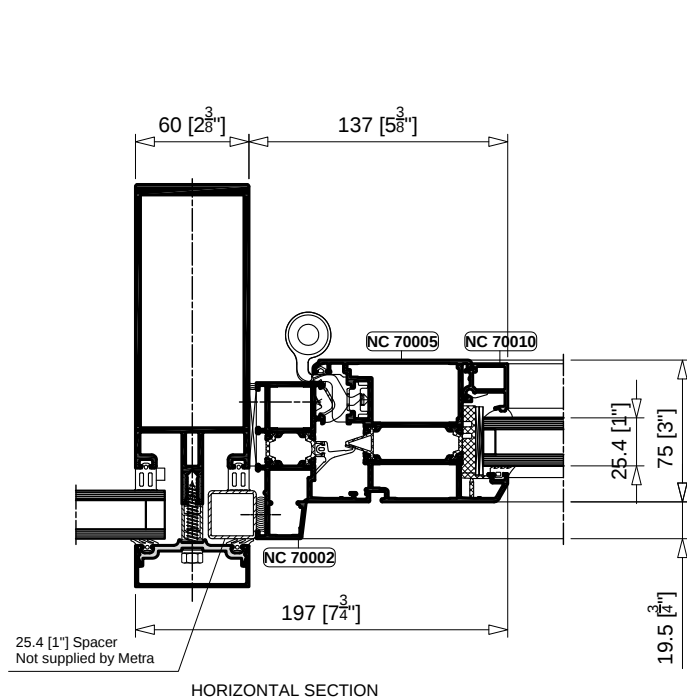


VERTICAL SECTION

SCALE 1:4
mm [inches]

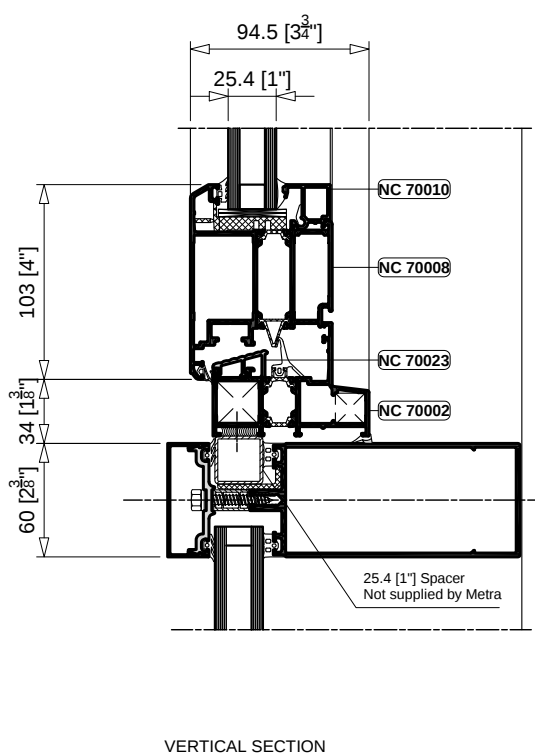
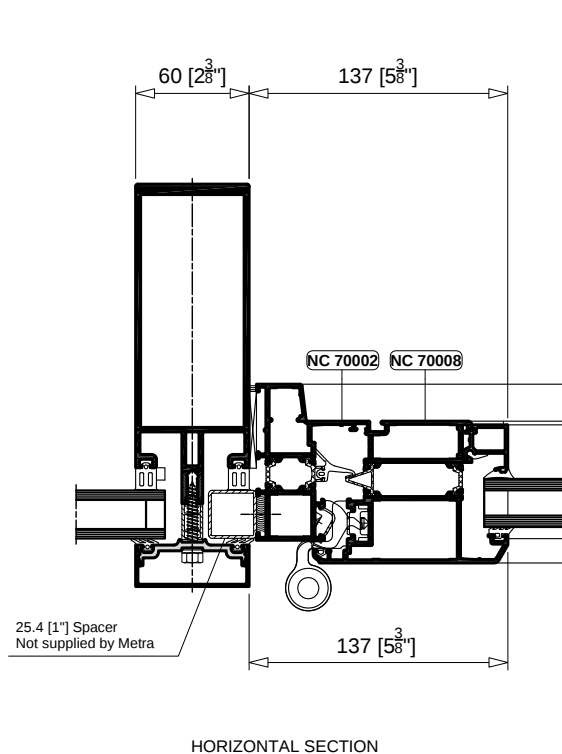
NC 82 STH

OPENING INWARD



NC 82 STH

OPENING OUTWARD

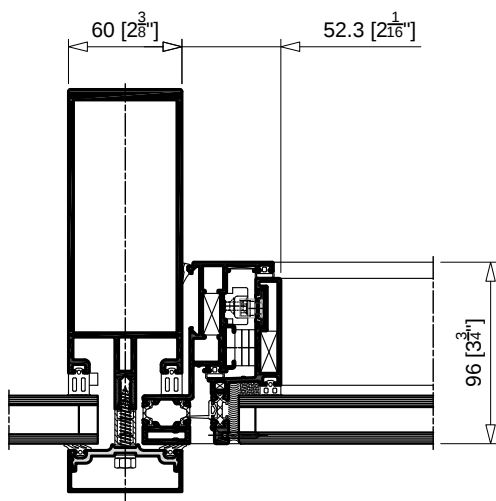


SCALE 1:4
mm [inches]

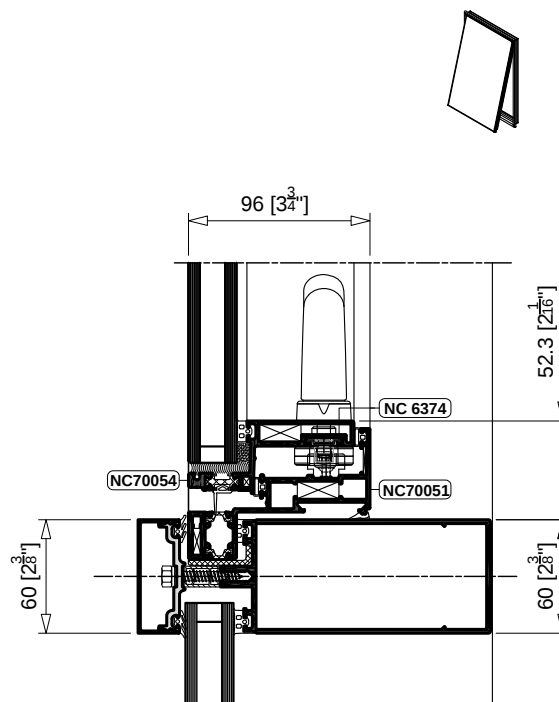


NC 96 CW

AWNING WINDOW



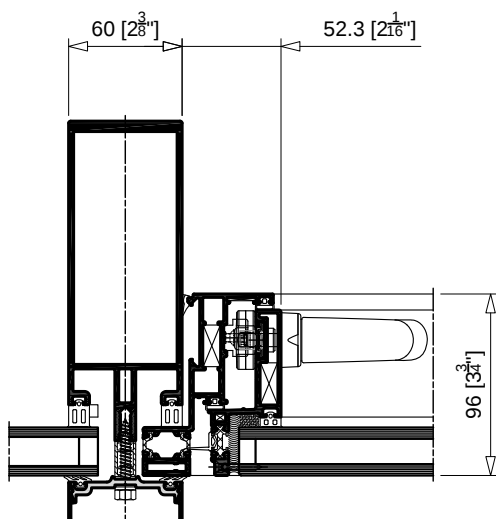
HORIZONTAL SECTION



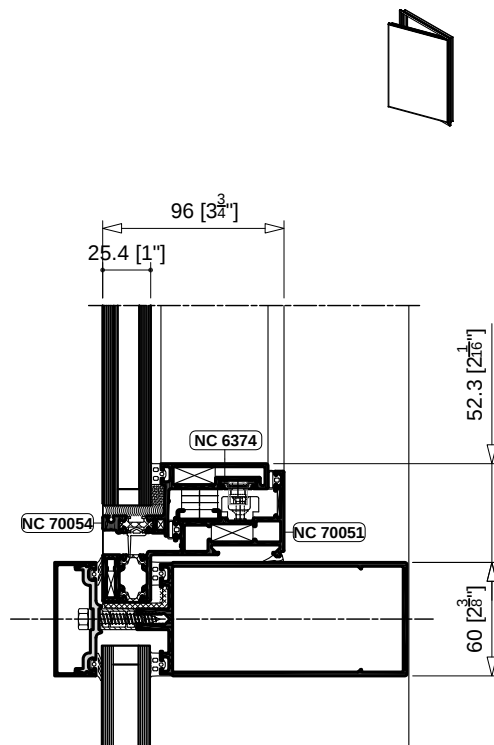
VERTICAL SECTION

NC 96 CW

CASEMENT WINDOW



HORIZONTAL SECTION



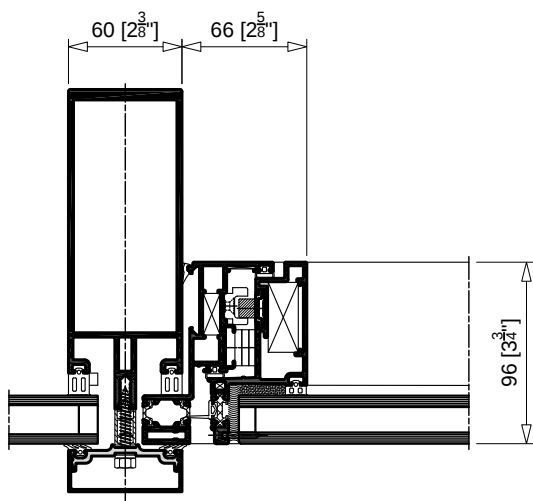
VERTICAL SECTION

SCALE 1:4
mm [inches]

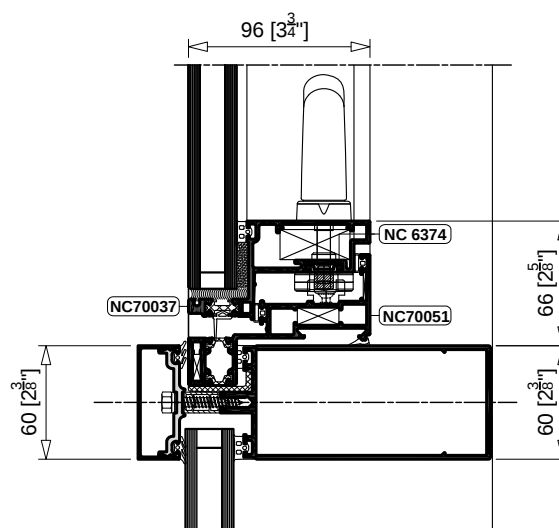


NC 96 CW

AWNING WINDOW



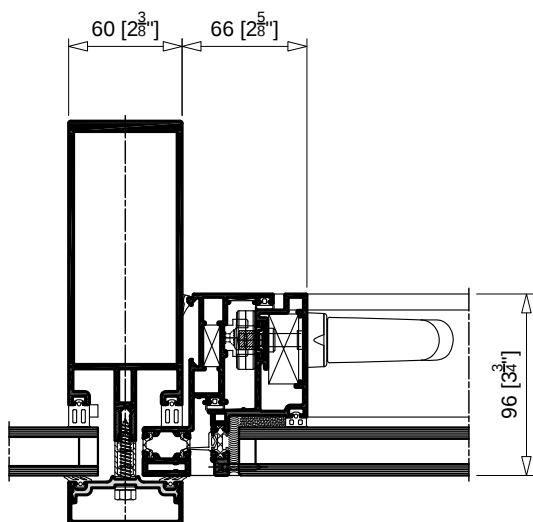
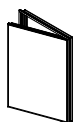
HORIZONTAL SECTION



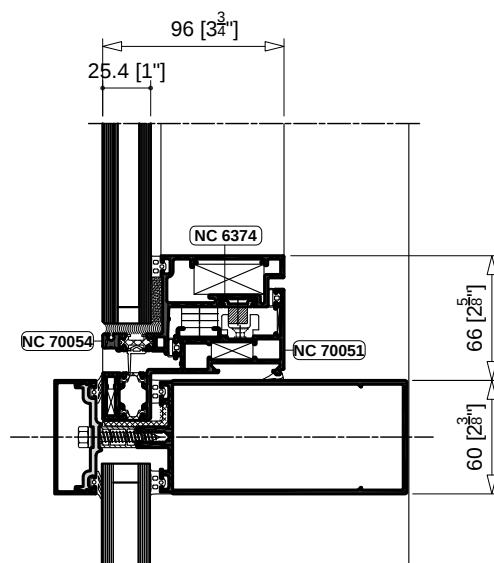
VERTICAL SECTION

NC 96 CW

CASEMENT WINDOW

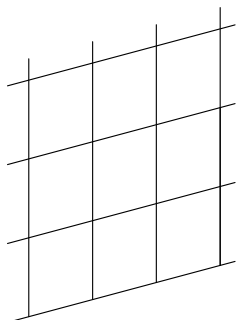


HORIZONTAL SECTION



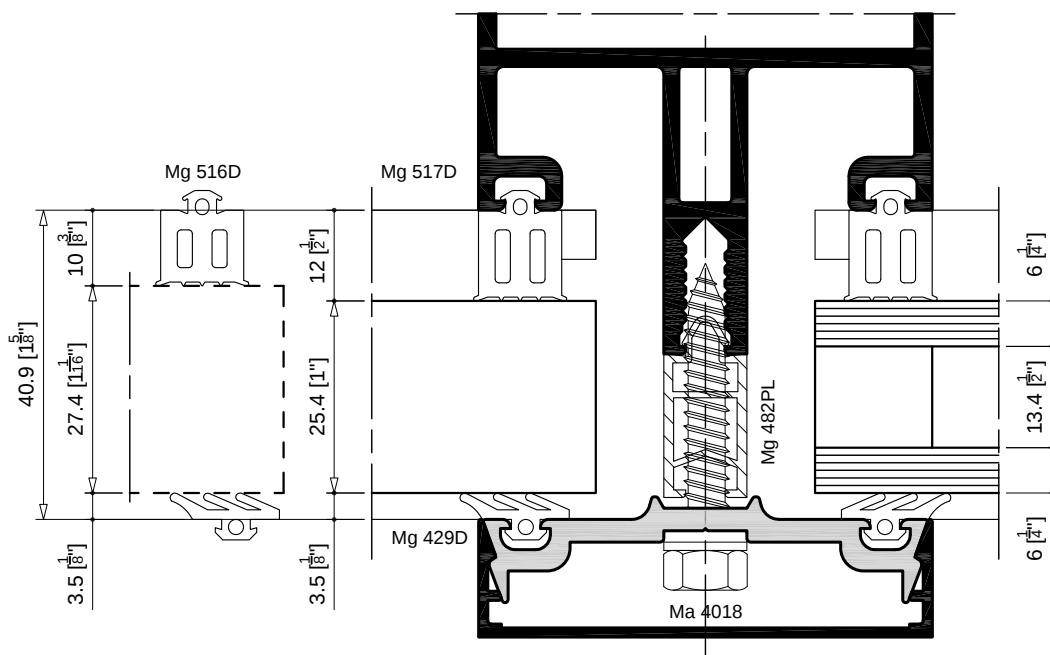
VERTICAL SECTION

SCALE 1:4
mm [inches]



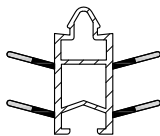
GLAZING

CAPTURED GLASS
25.4 [1"] TO 27.4 [$\frac{11}{16}$ "]

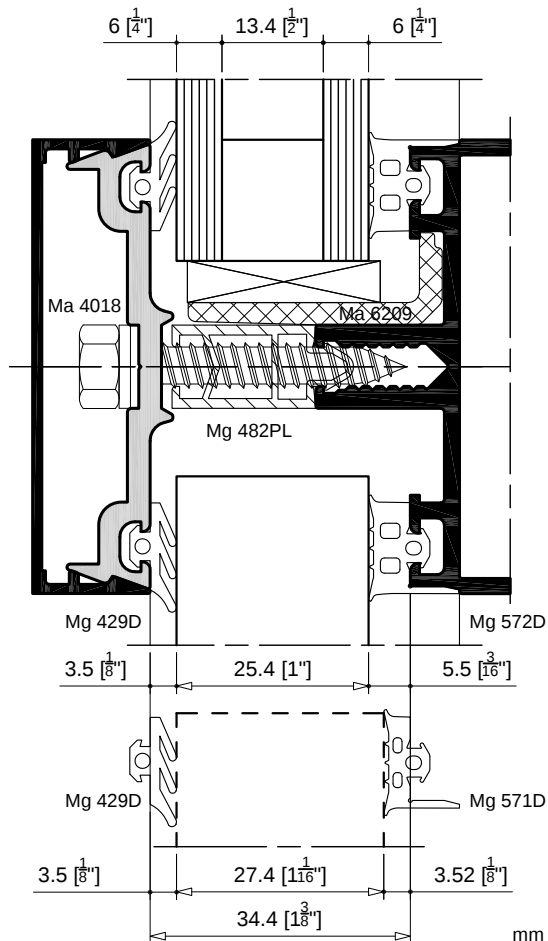


GLAZING CHART

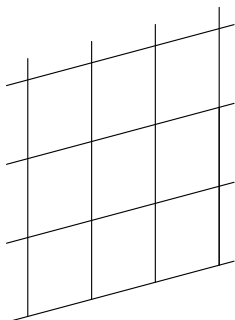
GLASS SIZE		25.4 [1"]	27.4 [$\frac{11}{16}$ "]
OUTSIDE GASKET		Mg 429D	Mg 429D
SPACER		Mg 482PL	Mg 482PL
FASTENING SCREW		Ma 4018	Ma 4018
SCREW WASHER		Ma 4000	Ma 4000
SHIMMING BASE		Ma 6209	Ma 6209
INSIDE GASKETS		Mg 517D Mg 572D	Mg 516D Mg 571D



Mg 482pl Spacer
Can be replaced with
Hi-thermal performance
Mg 493pl

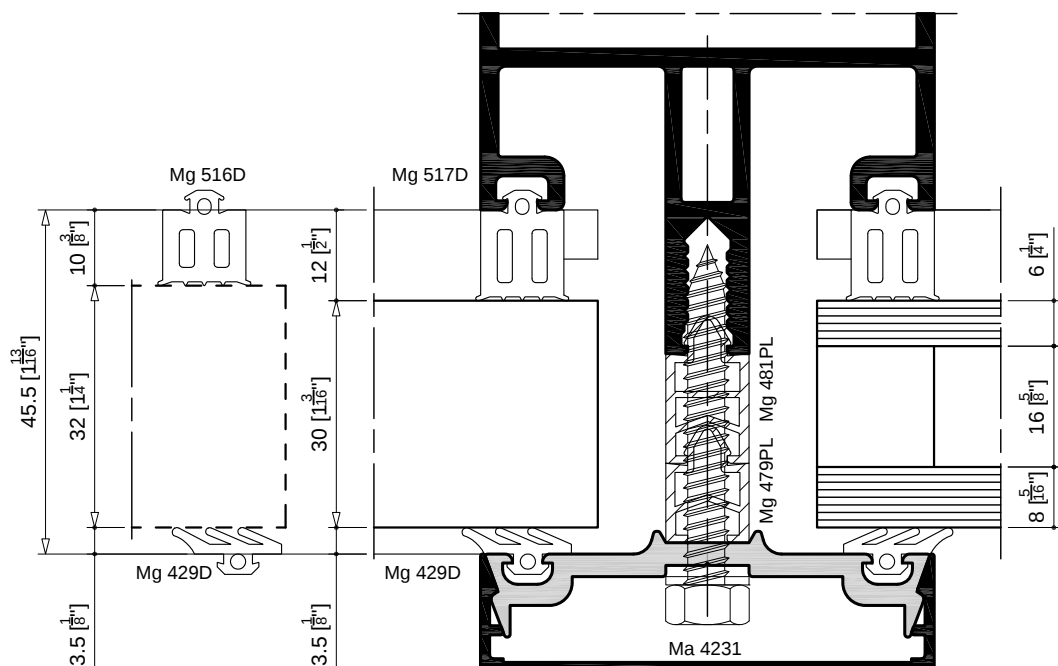


mm [inches]
SCALA 1:1



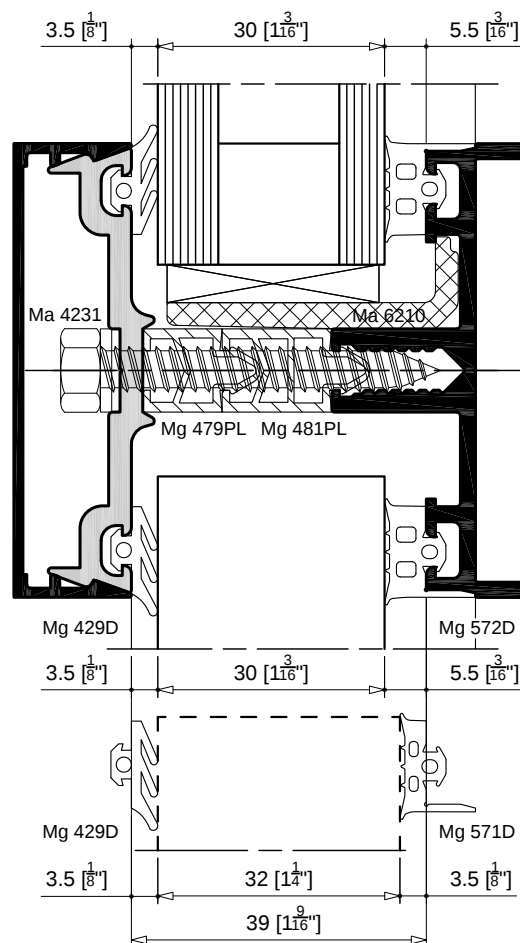
GLAZING

CAPTURED GLASS
30 [$\frac{3}{16}$ "] TO 32 [$\frac{1}{4}$ "]

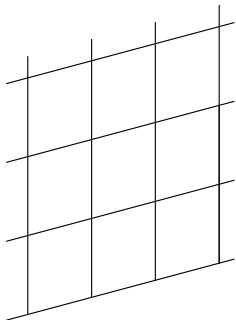


GLAZING CHART

GLASS SIZE		30 [$\frac{3}{16}$ "]	32 [$\frac{1}{4}$ "]
OUTSIDE GASKET		Mg 429D	Mg 429D
SPACER		Mg 479PL Mg 481PL	Mg 479PL Mg 481PL
FASTENING SCREW		Ma 4231	Ma 4231
SCREW WASHER		Ma 4000	Ma 4000
SHIMMING BASE		Ma 6210	Ma 6210
INSIDE GASKETS		Mg 517D Mg 572D	Mg 516D Mg 571D

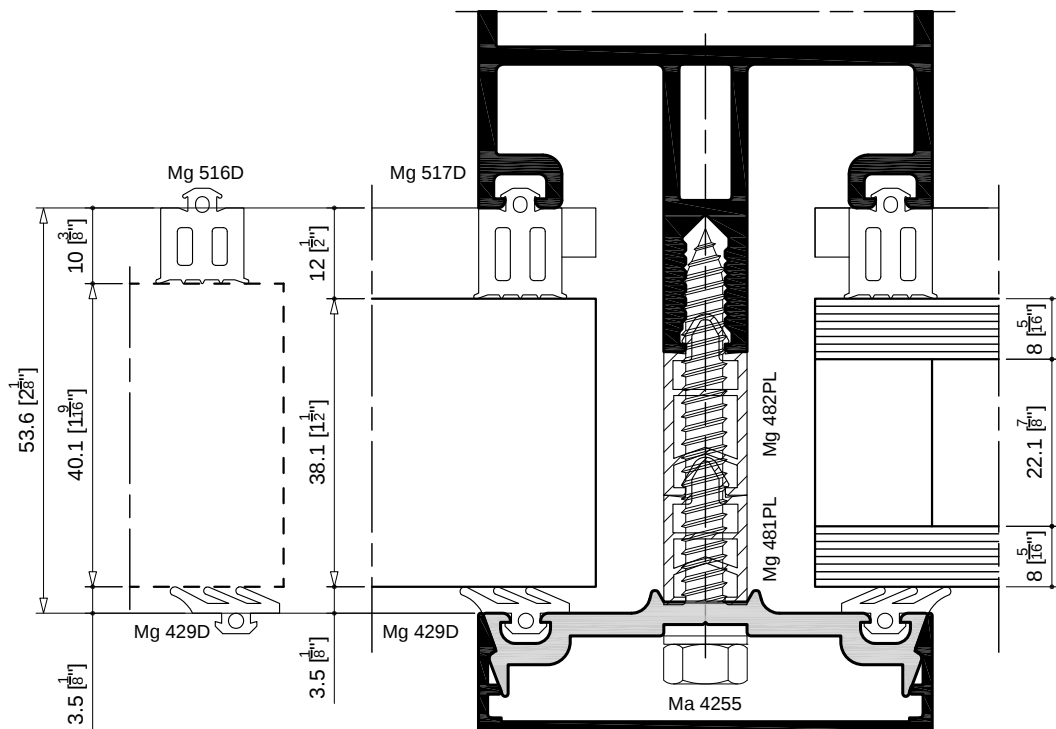


mm [inches]
SCALA 1:1



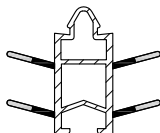
GLAZING

CAPTURED GLASS
38.1 [1 $\frac{1}{2}$ "] TO 40.1 [1 $\frac{9}{16}$ "]

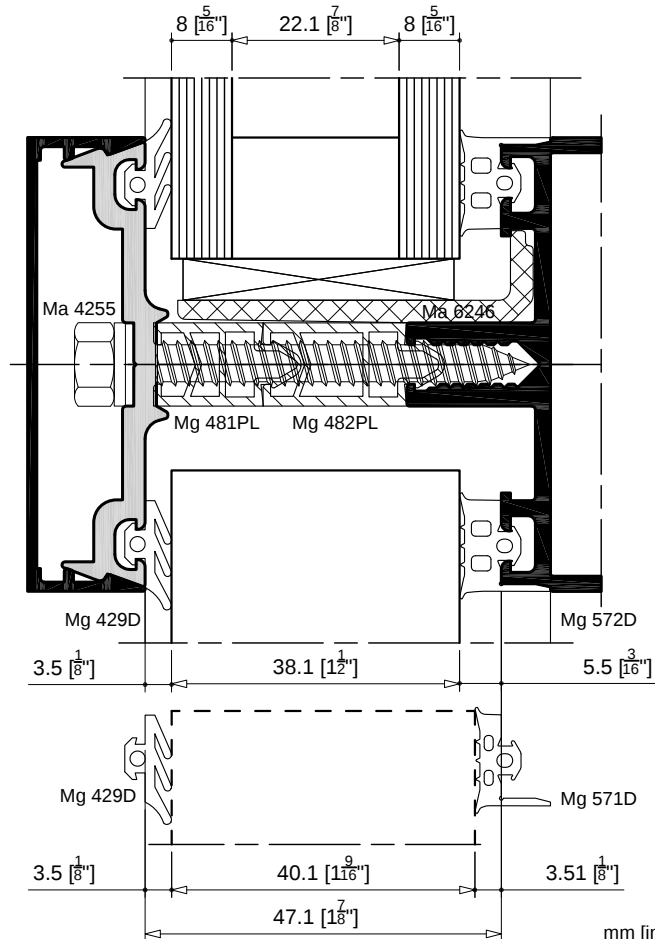


GLAZING CHART

GLASS SIZE		38.1 [1 $\frac{1}{2}$ "]	40.1 [1 $\frac{9}{16}$ "]
OUTSIDE GASKET		Mg 429D	Mg 429D
SPACER		Mg 481PL Mg 482PL	Mg 481PL Mg 482PL
FASTENING SCREW		Ma 4255	Ma 4255
SCREW WASHER		Ma 4000	Ma 4000
SHIMMING BASE		Ma 6246	Ma 6246
INSIDE GASKETS		Mg 517D Mg 572D	Mg 516D Mg 571D



Mg 482pl Spacer
Can be replaced with
Hi-thermal performance
Mg 493pl

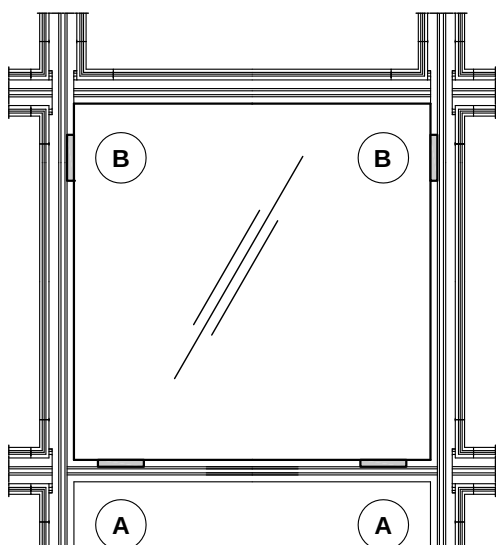


mm [inches]
SCALA 1:1



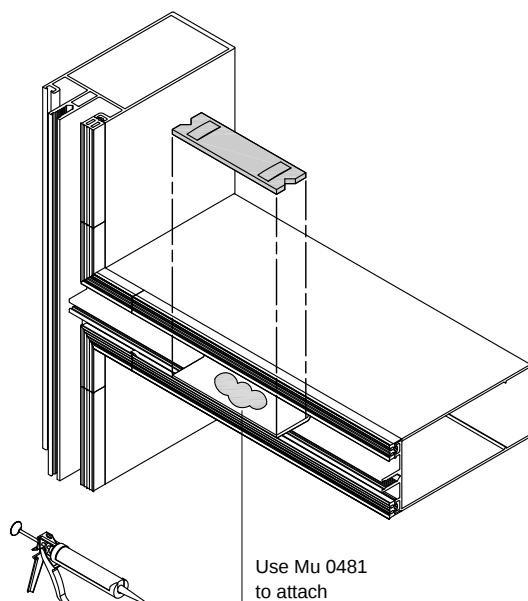
GLAZING

SETTING BLOCKS
EDGE BLOCKS

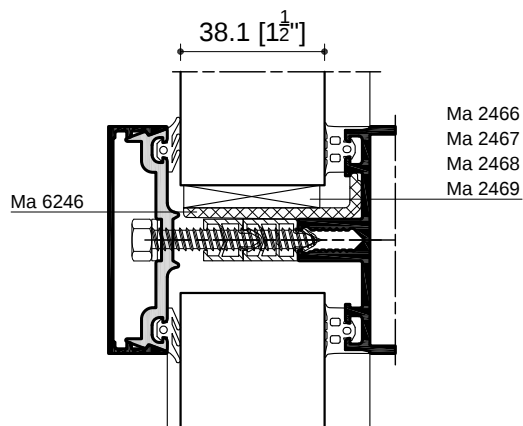
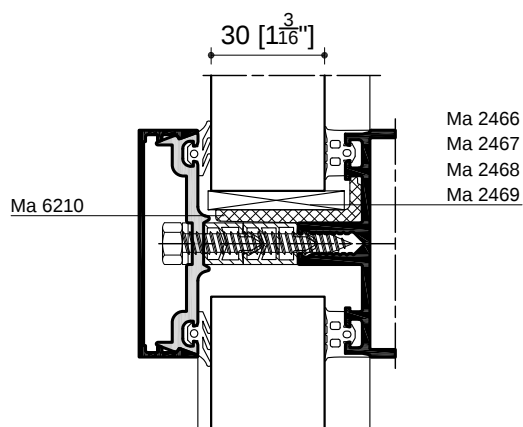
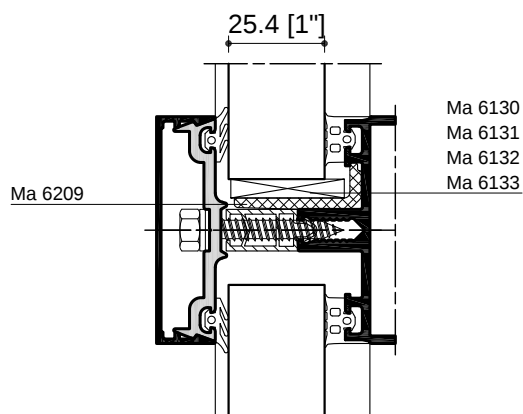


A SETTING BLOCKS
For glass weight transfer to transom
Positioning? See page 52b-E4-04

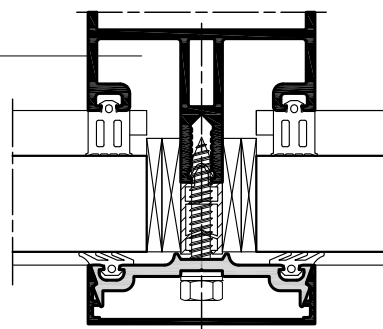
B EDGE BLOCKS
To ensure glass stability
Positioning? next to Top corner



Use Mu 0481
to attach



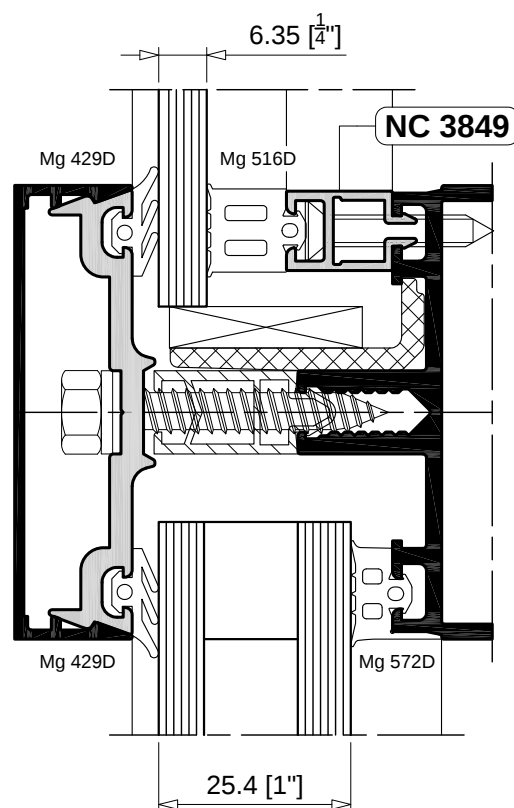
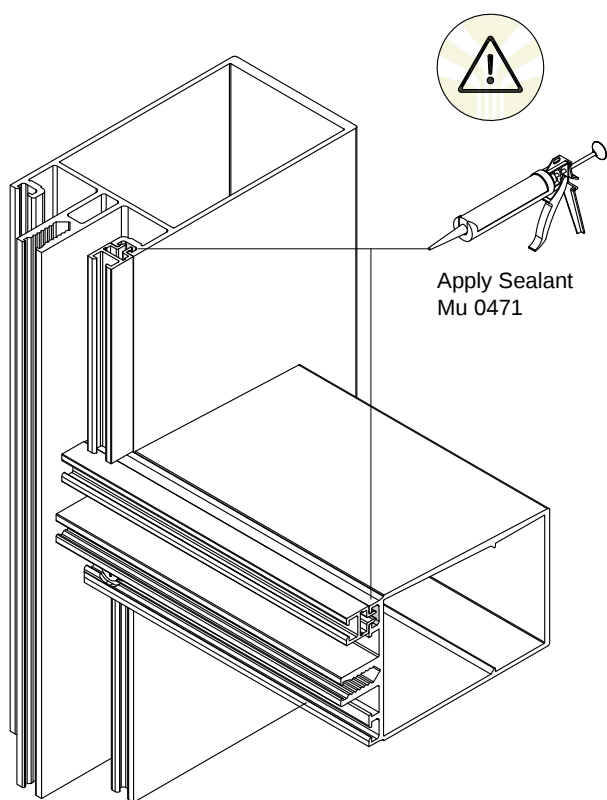
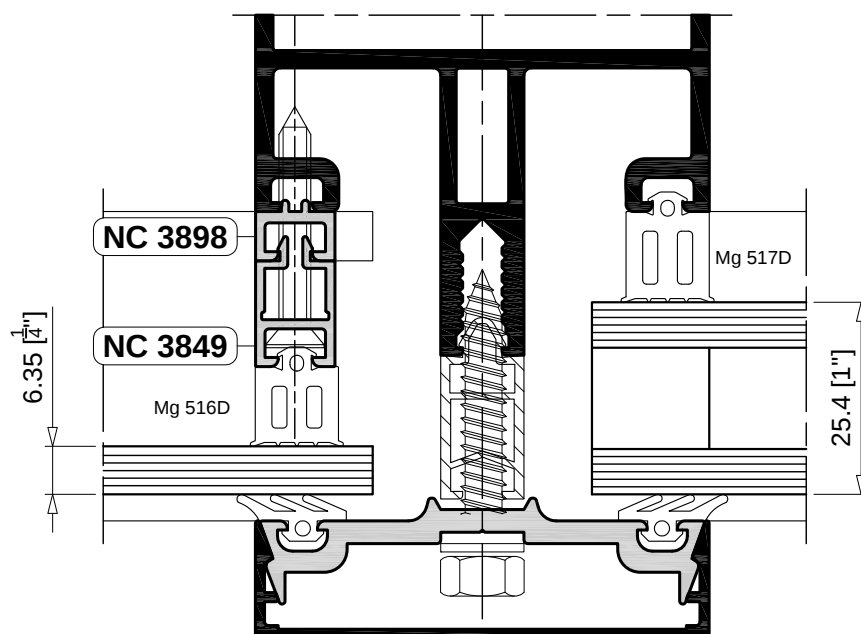
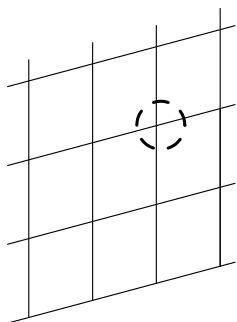
Do not block
Drainage channel



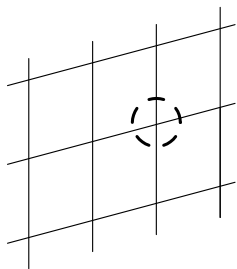
mm [inches]
SCALA 1:2

GLAZING

GLASS THICKNESS ADAPTER



mm
[inches]
SCALE 1:2



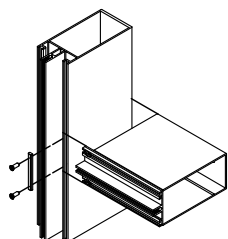
TRANSOM CAPACITY

DEAD LOAD
ACCORDING TO GLAZING
AND FASTENING TO MULLION

Statics ?

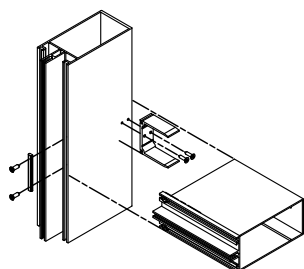


Refer to pages
52b - Info - 03
to 07



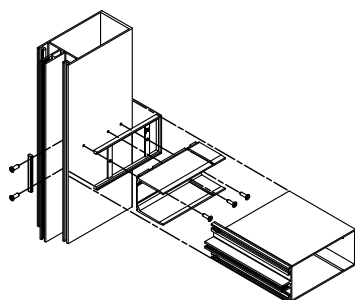
DIRECT FITTING - FRONT SCREWS ONLY

Glazing	Shimming Base	k N	lbf	Machinings
25.4 [1"]	Ma 6209	0.7	157.4	 Refer to page 52b - E2 - 01
30 [$1\frac{3}{16}$ "]	Ma 6210	0.7	157.4	
38.1 [$1\frac{1}{2}$ "]	Ma 6246	Not allowed	Not allowed	



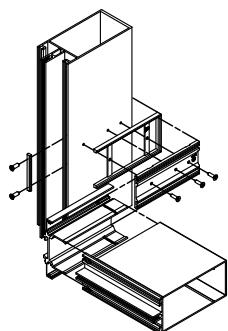
SEQUENTIAL FITTING - REAR END SHEAR BLOCK

Glazing	Shimming Base	k N	lbf	Machinings
25.4 [1"]	Ma 6209	1.1	247.3	 Refer to page 52b - E2 - 03
30 [$1\frac{3}{16}$ "]	Ma 6210	1.1	247.3	
38.1 [$1\frac{1}{2}$ "]	Ma 6246	0.9	202.3	



SEQUENTIAL FITTING - ALL CAVITY SHEAR BLOCK

Glazing	Shimming Base	k N	lbf	Machinings
25.4 [1"]	Ma 6209	1.6	359.7	 Refer to page 52b - E2 - 05
30 [$1\frac{3}{16}$ "]	Ma 6210	1.4	314.7	
38.1 [$1\frac{1}{2}$ "]	Ma 6246	0.9	202.3	

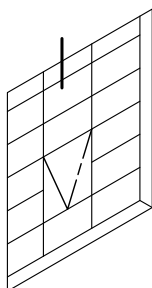


FRONT SLIDE-IN FITTING - ALL CAVITY SHEAR BLOCK

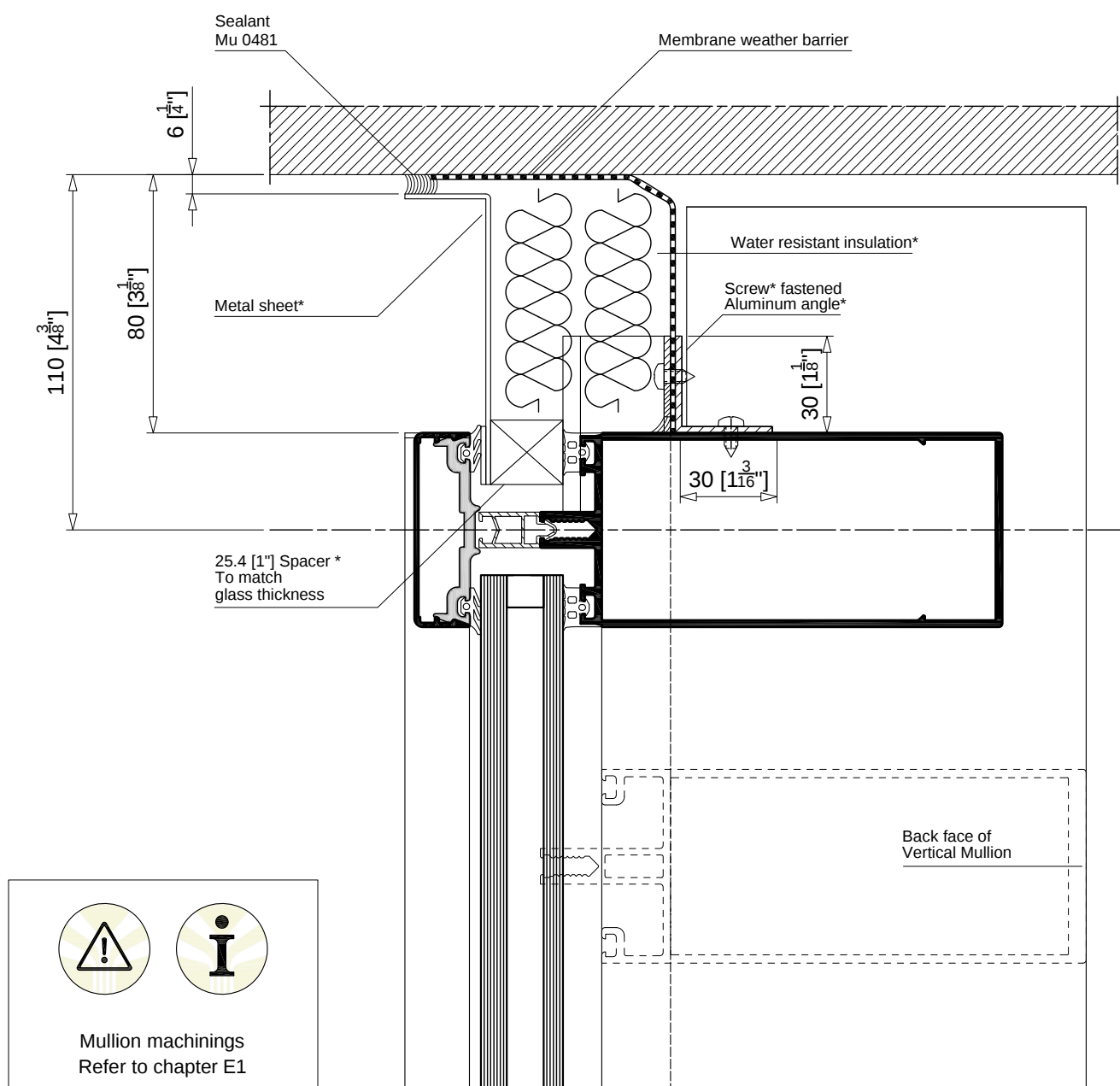
Glazing	Shimming Base	k N	lbf	Machinings
25.4 [1"]	Ma 6209	1.6	359.7	 Refer to page 52b - E2 - 07
30 [$1\frac{3}{16}$ "]	Ma 6210	1.4	314.7	
38.1 [$1\frac{1}{2}$ "]	Ma 6246	0.9	202.3	

mm [inches]

PERIMETER CONDITIONS

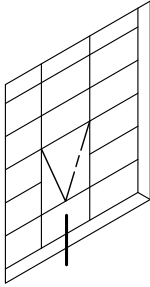


AAMA 501-05 TEST INSTALLATION DETAILS Top section

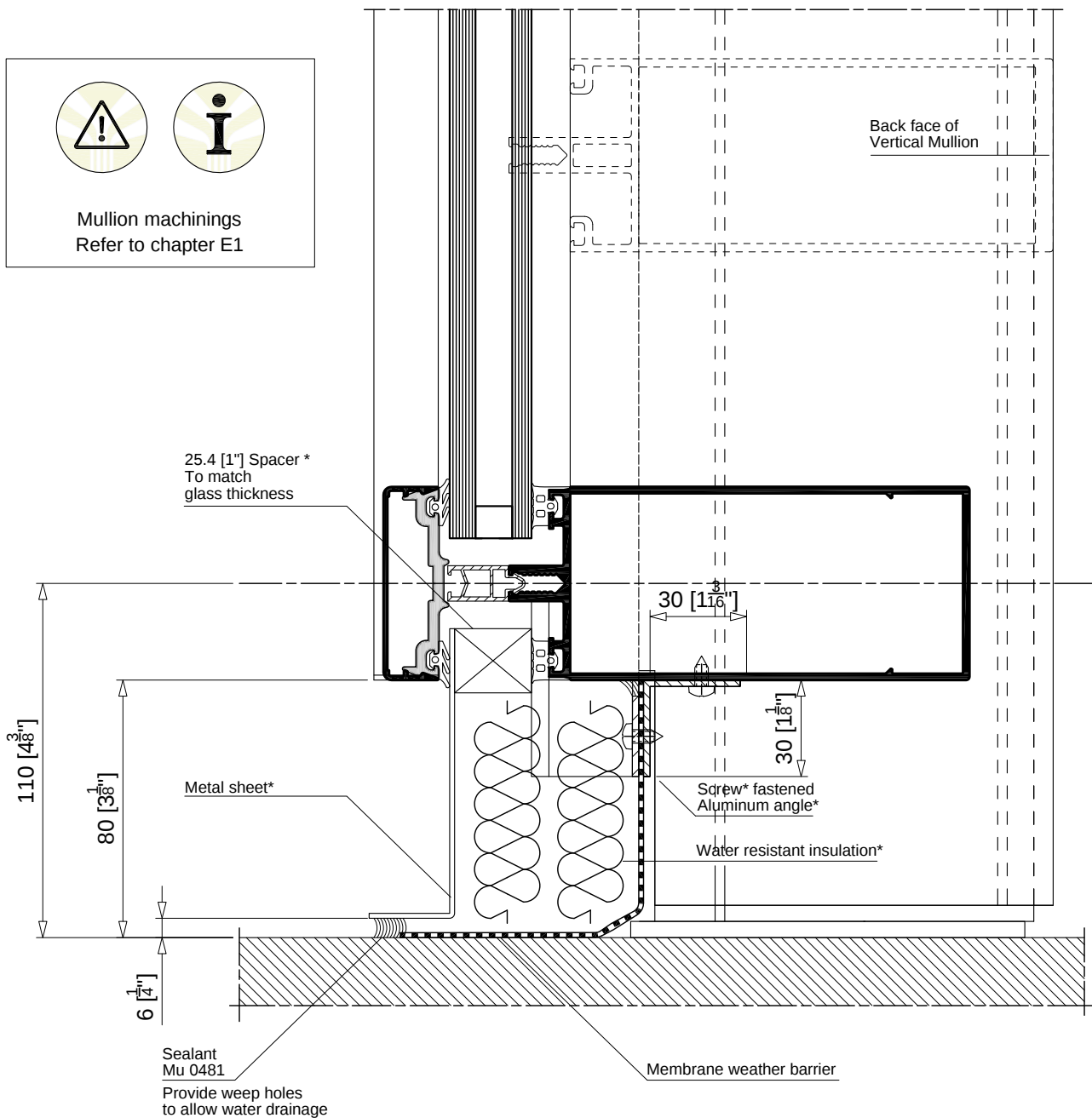
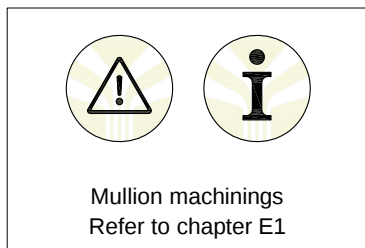


*: Not supplied by Metra

PERIMETER CONDITIONS

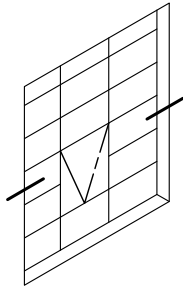


AAMA 501-05 TEST INSTALLATION DETAILS Bottom section

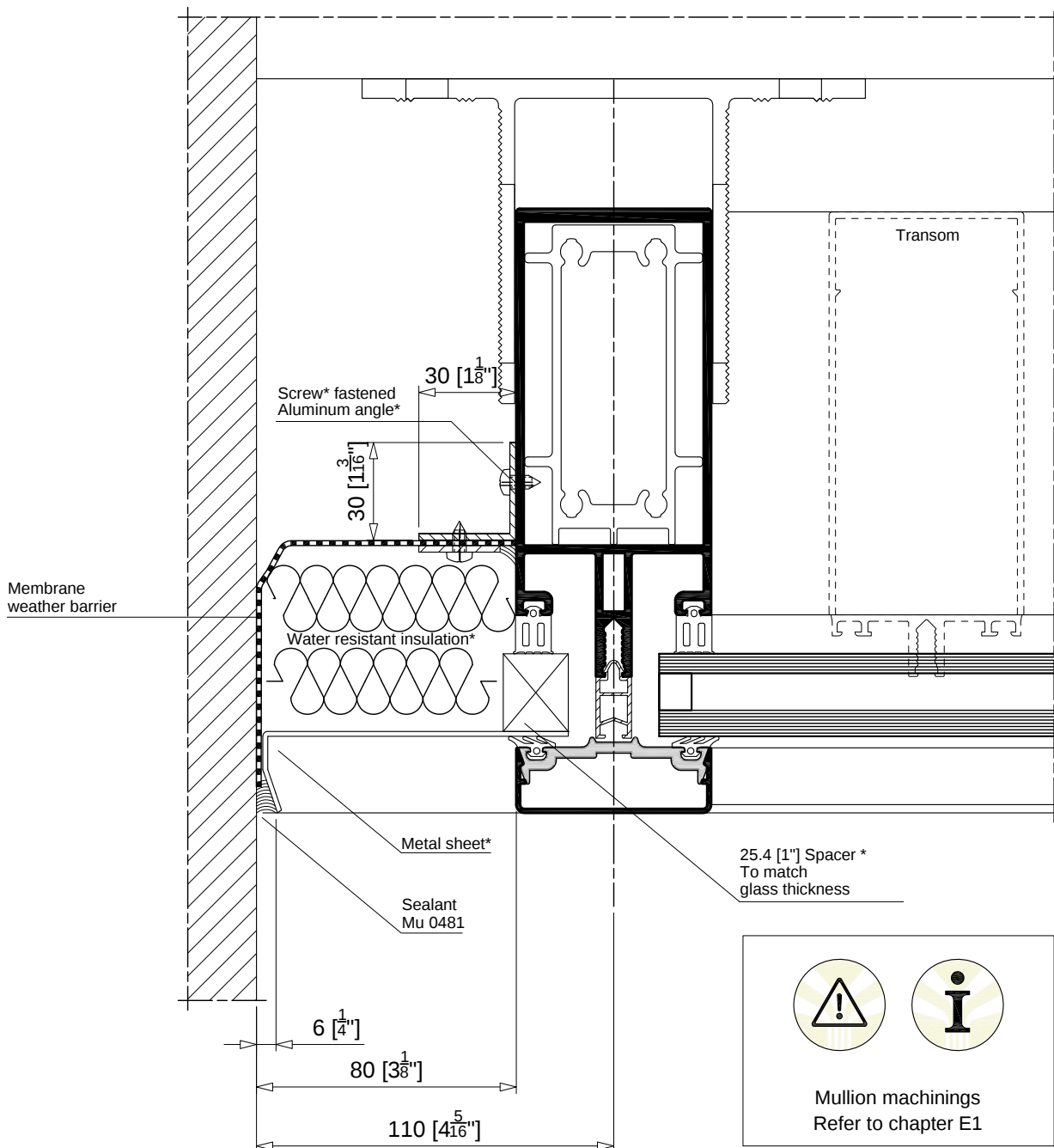


*: Not supplied by Metra

PERIMETER CONDITIONS

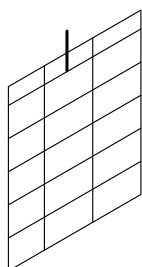


AAMA 501-05 TEST INSTALLATION DETAILS Sides section

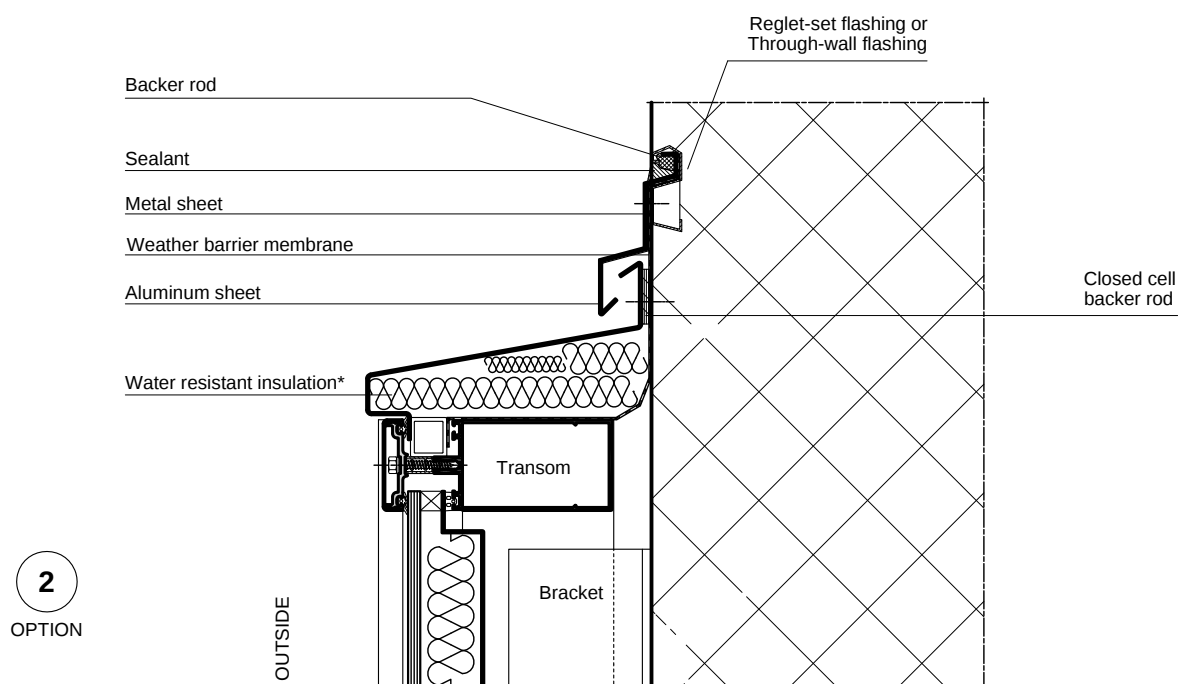
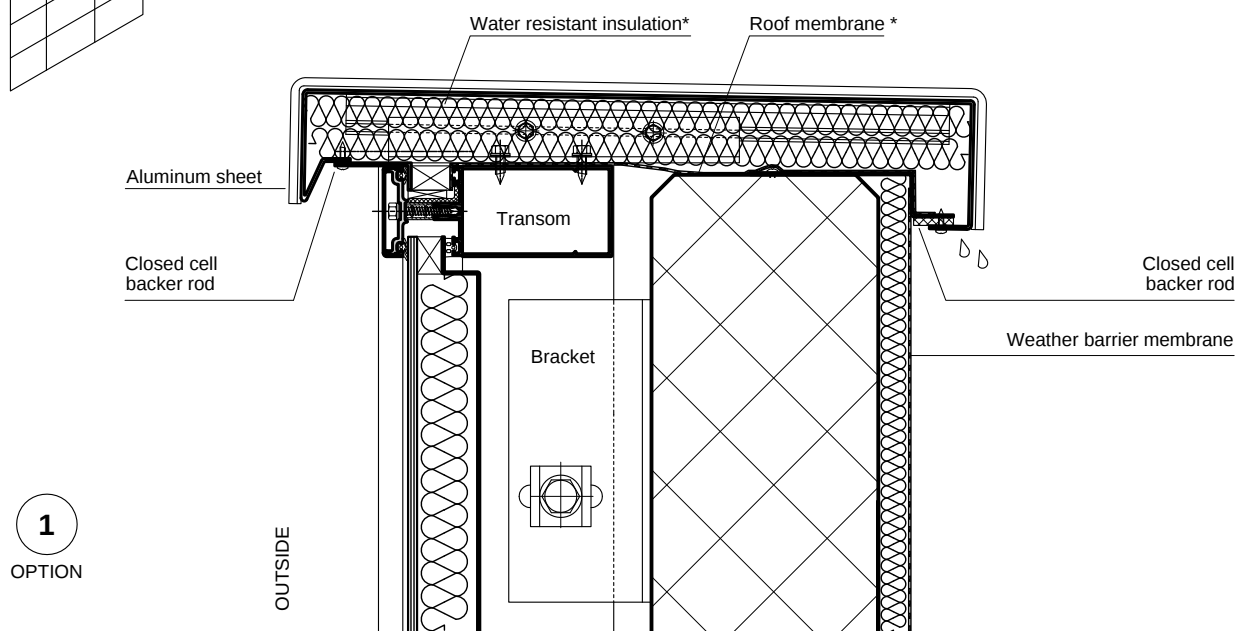


*: Not supplied by Metra

PERIMETER CONDITIONS

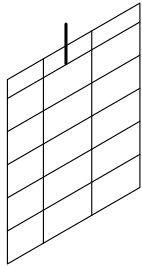


Typical solutions Top Sections



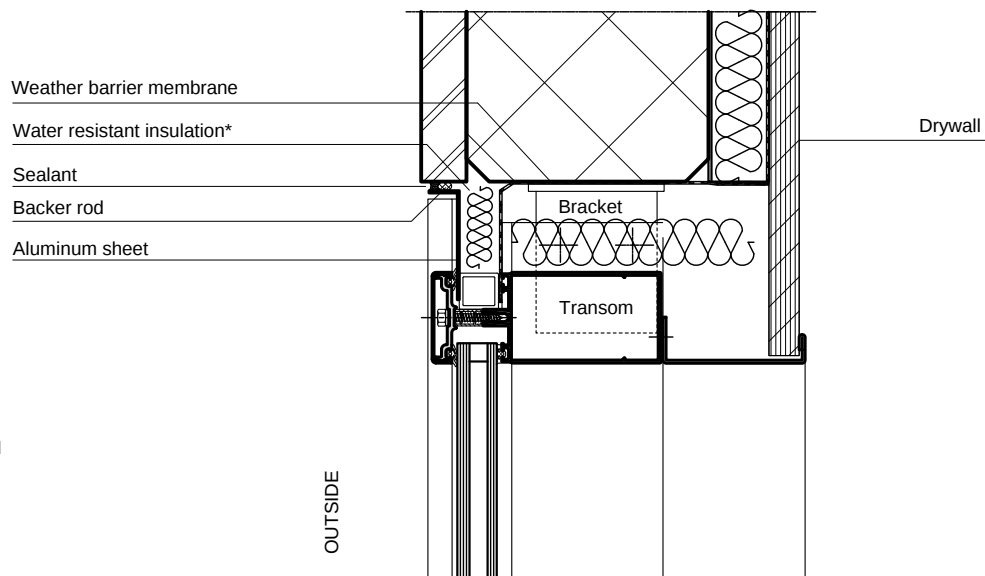


PERIMETER CONDITIONS

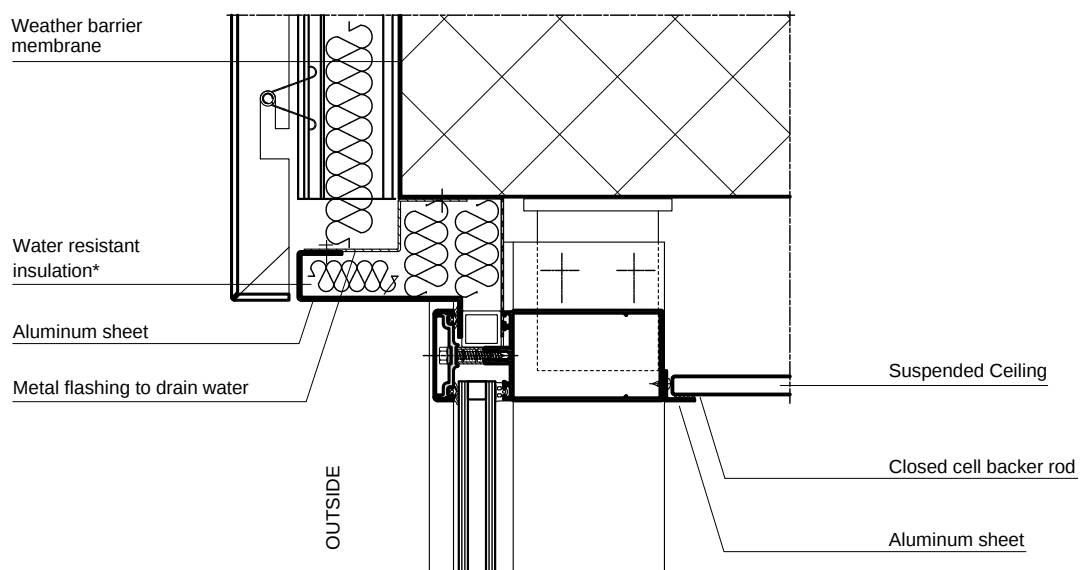


Typical solutions Top Sections

1
OPTION



2
OPTION



A 4x4 grid with a vertical line in the second column from the left.

Backer rod

Aluminum sheet

Drywall

Backer rod

Aluminum sheet

Sealant

Zinc steel sheet

Bracket

Backer rod

Suspended Ceiling

Water resistant insulation*

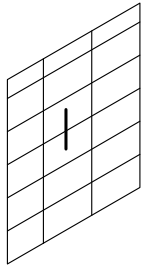
OUTSIDE

Transom

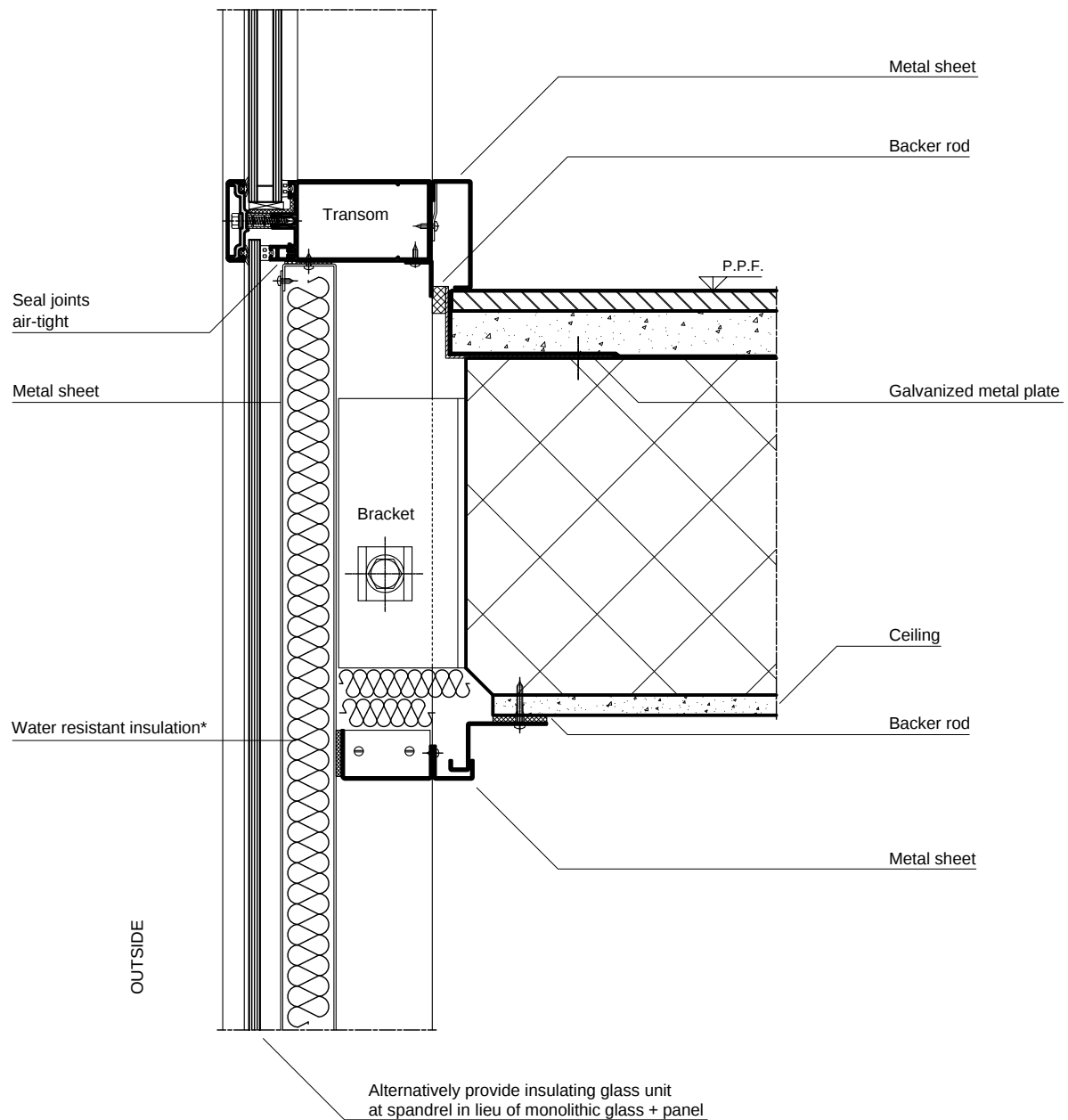
Transom



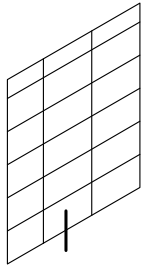
WALL CONDITIONS



Typical solutions Intermediate Sections



PERIMETER CONDITIONS

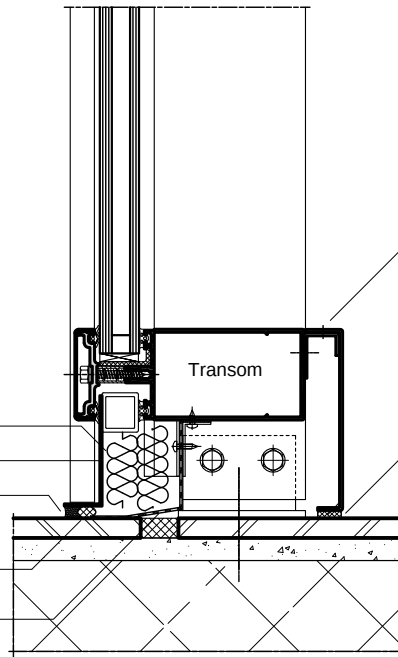


Typical solutions Bottom Sections

1
OPTION

Water resistant insulation*
Metal sheet
Sealant
Provide weep holes
to allow water drainage
Backer rod
Weather barrier membrane

OUTSIDE



Metal plate

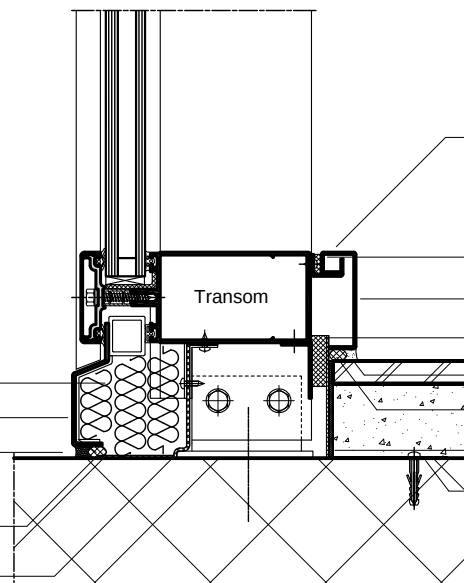
Backer rod

Transom

2
OPTION

Water resistant insulation*
Metal sheet
Sealant
Provide weep holes
to allow water drainage
Backer rod
Weather barrier membrane

OUTSIDE



Metal plate

Backer rod

Metal plate

Backer rod

Sealant

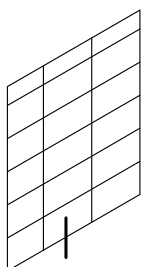
Backer rod

Water resistant insulation*

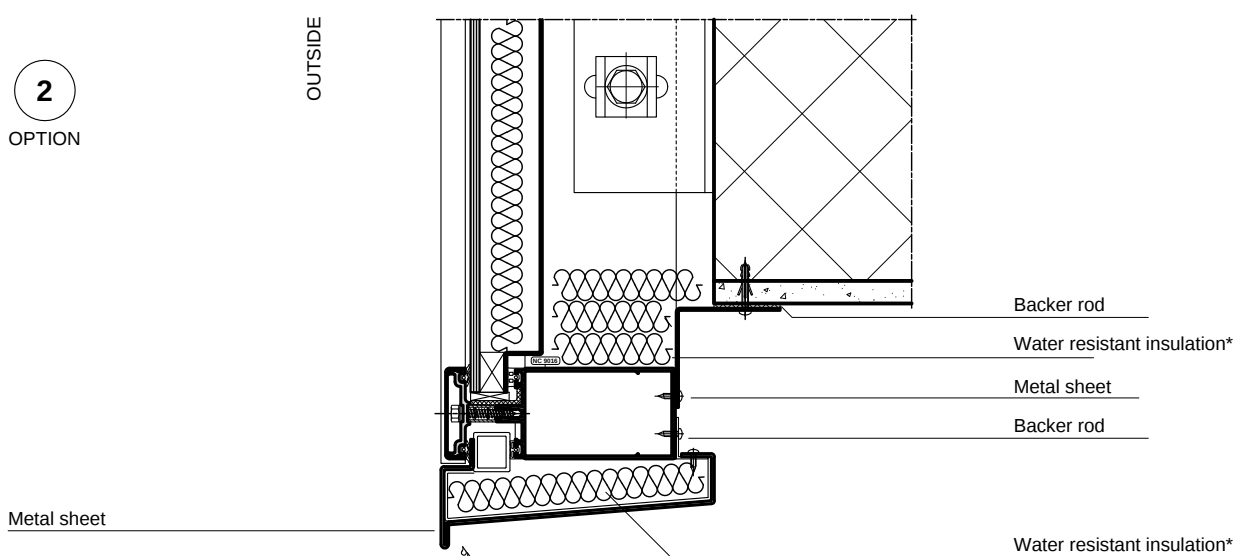
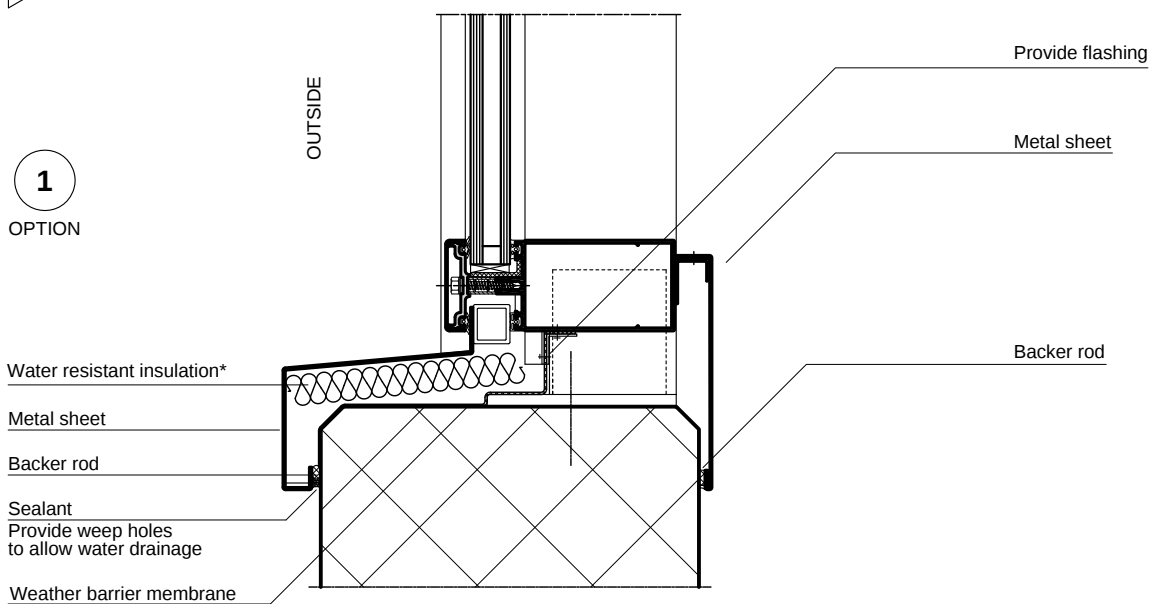
Galvanized metal plate *

Transom

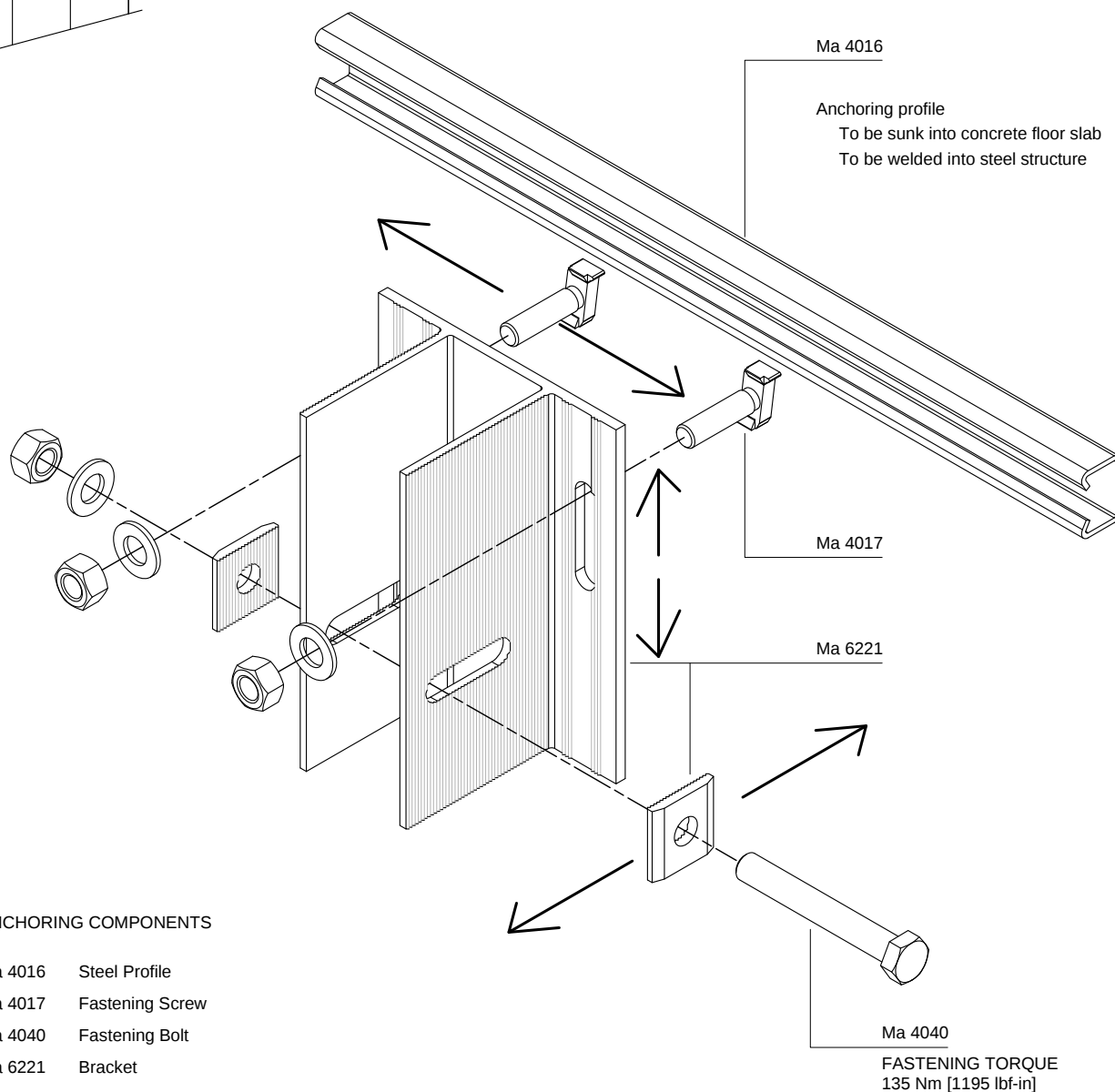
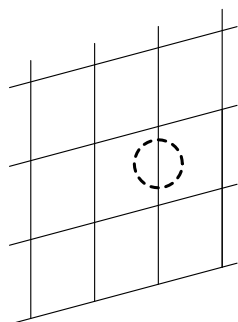
PERIMETER CONDITIONS



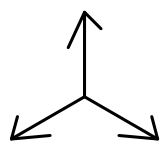
Typical solutions Bottom Sections



Ma 6221

MULLION BRACKET
ANCHORING COMPONENTS

ANCHORING COMPONENTS

Ma 4016	Steel Profile
Ma 4017	Fastening Screw
Ma 4040	Fastening Bolt
Ma 6221	Bracket



The use of Ma 6221
and anchoring components
ensures X;Y;Z adjustments



Ma 6221 capacity
to be verified according
to project statics requirements



METRA Systems
1995 Industrial Blvd. - Laval, QC H7S 1P6, Canada
Tel. +1 450 629 1806 - Fax +1 450 629 7313
info@metrasystem.com
www.metrasystem.com



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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Printed in September 2008