

Hinged Thermal Break 62mm

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Hinged Thermal Break 62mm

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GULF EXTRUSIONS

Gulf Extrusions Co. LLC, the flagship company of the Al Ghurair Group of Companies, was founded in 1976, Dubai, UAE where it has over the years earned the reputation known as one of the most innovative and reliable companies in the Middle East.

Located close to its raw material supplier Dubai Aluminium Company Ltd (DUBAL), the world's largest single smelter site, Gulf Extrusions has become one of the largest extrusion plants in the region.

Gulf Extrusions quality products can be seen in many of today's progressive structures. The company was formed with the sole purpose to meet the increasing demands for aluminium extrusions in domestic, regional and international markets.

Gulf Extrusions six presses and highly skilled workforce are able to produce 65,000 metric tonnes per annum with a rated capacity of 24,000 tonnes for powder coated finish, 6,000 tonnes for anodized finish and can offer more than 20,000 profile designs. These extrusions cover numerous industries ranging from architectural to transportation, engineering to structural sections, components for household items, HVAC and customized products.

During the progressive stages of Gulf Extrusions, from its inception to expansion, the company not only has acquired a majority share in the local market, it has also made its presence felt globally throughout the GCC countries, Indian sub-continent, South East Asia, Australia, Africa, Europe and Canada.

Our commitment and utmost priority is to provide customers with the finest quality of aluminium extrusions.

Gulf Extrusions looks ahead to inevitable challenges and product advancements of the new era.

Quality is an inseparable element of all activities carried out at Gulf Extrusions. Gulf Extrusions is dedicated to respond and deliver on time, high quality, tailor-made and cost effective products. The management and staff are committed to implement a comprehensive and integrated Quality Management System in accordance with the International Quality Standards of ISO 9001 and ISO 14001.

INTERNATIONAL STANDARD COMPLIANCE

Extrusions Dimensions Tolerances:

- BS EN 755 - 9:2008
- BS EN 12020 - 2:2008
- DIN 1748, DIN 17615
- ASTM B221

Powder Coated Finish:

- BS:6496 Clause: 10.4, 10.5, 10.6, 10.7 & 10.8
- ISO 2360 / 2813 / 2409 / 2931
- Minimum Film Thickness – 60 Microns

Anodizing Finish:

- BS EN 12373-1 2001 Clause 7 (BS:6161 Part 6)
- BS:3987 Clause 2, 3, 5, 6
- Appendix- A, B, C, D, E, F, G, H, J, K, L Minimum Film Thickness- 16 Microns



PRODUCT QUALITY CERTIFICATES



Qualicoat (European Powder Coaters Association):

- A quality label for coating on metal for Architectural Applications
- A product license under the control of EWAA (European Wrought Aluminium Association) in Zurich Switzerland



Qualanod (European Anodizers Association):

- A quality label organization to guarantee high quality Aluminium Anodizing.
- A product license under the control of EWAA (European Wrought Aluminum Association) in Zurich Switzerland



- SASO



- ESMA



Management:

- ISO 9001 (Quality Management System)
- ISO/TS 16949:2009 (Management System)



Health & Safety:

- OHSAS 18001 (Certification for occupational health & safety management)



Environment:

- ISO 14001 (Environment Management System)



Membership in International Organization:

- AAC member (Aluminium Anodizers Council - USA)
- AEC member (Aluminum Extruders Council - USA)
- DIN EN 15088



Membership:

- RoSPA's member

CHEMICAL COMPOSITIONS

ALLOY 6005A

Element	Minimum	Maximum
Si	0.50	0.90
Fe	-	0.35
Cu	-	0.30
Mn	-	0.50
Mg	0.40	0.70
Cr	-	0.30
Zn	-	0.20
Ti	-	0.10
Other Each	-	0.05
Other Total	-	0.15
Aluminium	Remainder	

ALLOY 6060

Element	Minimum	Maximum
Si	0.30	0.60
Fe	0.10	0.30
Cu	-	0.10
Mn	-	0.10
Mg	0.35	0.60
Cr	-	0.05
Zn	-	0.15
Ti	-	0.10
Other Each	-	0.05
Other Total	-	0.15
Aluminium	Remainder	

ALLOY 6063

Element	Minimum	Maximum
Si	0.20	0.60
Fe	-	0.35
Cu	-	0.10
Mn	-	0.10
Mg	0.45	0.90
Cr	-	0.10
Zn	-	0.10
Ti	-	0.10
Other Each	-	0.05
Other Total	-	0.15
Aluminium	Remainder	

ALLOY 6082

Element	Minimum	Maximum
Si	0.70	1.30
Fe	-	0.50
Cu	-	0.10
Mn	0.40	1.00
Mg	0.60	1.20
Cr	0.04	0.15
Zn	-	0.20
Ti	-	0.10
Other Each	-	0.05
Other Total	-	0.15
Aluminium	Remainder	

ALLOY 6061

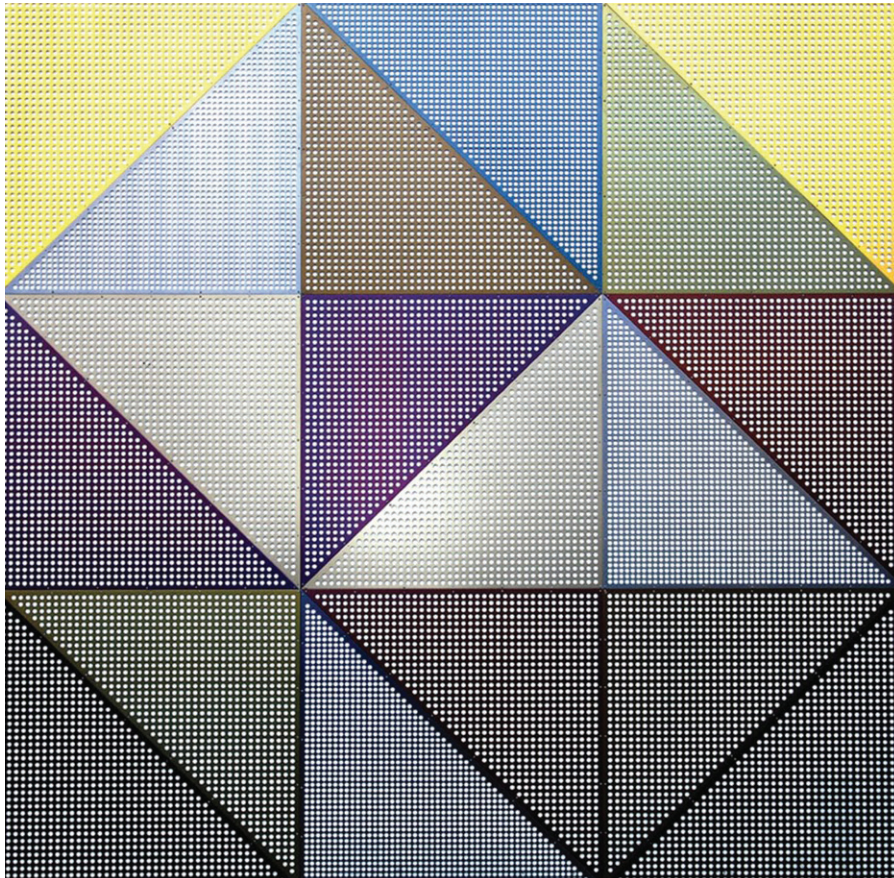
Element	Minimum	Maximum
Si	0.40	0.80
Fe	-	0.70
Cu	0.15	0.40
Mn	-	0.15
Mg	0.8	1.20
Cr	0.04	0.35
Zn	-	0.25
Ti	-	0.15
Other Each	-	0.05
Other Total	-	0.15
Aluminium	Remainder	

ANODIZING

A wide range of anodizing treatment options are possible for the aluminium profile sections of this system. The color choices from Gulf Extrusions range from Natural, Gold, and Bronze to Spectro colors (Red, Blue, Green, and Gray).

This surface treatment process involves first pre-treatment with scotch brite brushing for the unfinished profiles, and then subsequently fully immersing the aluminium profiles in an acidic electrolyte solution through which electric current is passed creating an anodic film on the profiles ranging from 5-30MICs.

The process is guaranteed and certified for use by QUALANOD - A quality label Organization to guarantee high quality aluminium anodizing and the company's ISO 9001 certification.



Authorization to use the quality sign

**Authorization
to use the quality sign**



This is to certify that

GULF EXTRUSIONS CO. LLC

P.O. BOX 5598
AE – Dubai

Licence number: 2000

is authorized to use the quality sign which is shown above, according to the regulations for the use of the quality label for ARCHITECTURAL ANODIZING as described in the current edition of the Specifications for the QUALANOD quality label for sulfuric acid-based anodizing of aluminium (Edition 01.07.2010).

Date of issue of the licence: 10.03.2000
Period of validity of the licence: until 31.12.2017

Zurich, 15 November 2016

QUALANOD

José Arenas
President

CERTIFICATION BODY

Josef Schoppig
AC-Fiduciaire SA



Mailing address:
QUALANOD, P.O. Box 1507, CH-8027 Zurich
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POWDER COATING

- Horizontal & Vertical Powder coating lines with an Annual Capacity of 24 000 MT
Powder Coating BS: 6496 Clause: 10.4, 10.5, 10.6, 10.7, & 10.8
ISO 2360/2813/2409/2931
Minimum Film Thickness - 60 Microns

A wide choice of colors for powder coating can be used for the aluminium profile sections.

From Gulf Extrusions the following powder types are available

- Polyester Façade (PE-F)
- Super Durable Façade (SDF) & Hyper Durable Façade (HDF) (Where SDF & HDF are equivalent to Poly-Vinylidene DiFluoride (PVDF) in terms of corrosion performance)
- Anti Bacterial (recommended to be used in Hospitals)
- Anti Static (recommended for laboratories, electronics assembly buildings) and Heat Resistant in nature.

This surface treatment process involves the following pre-treatment

1. Degreasing
2. Washing
3. Etching
4. Washing
5. Chromatising
6. Double washing in dematerialized water

Once completed, powder is applied using an electrostatic spraying process with charged powder particles, followed by curing in an oven under a controlled temperature of 180-200C for paint polymerization where the paint layer is at least 60mic.

This whole process is certified for use from QUALICOAT - A quality label for coating on metal for Architectural Applications.

GUARANTEE PERIOD:
10 years for PE-F Quality
25 years for PE-SDF

Authorization to use the quality sign

**Authorization
to use the quality sign**



This is to certify that

GULF EXTRUSIONS CO. LLC

P.O. BOX 5598
AE – Dubai

Licence number: 1901

is authorized to use the quality sign which is shown above according to the REGULATIONS FOR THE USE OF THE QUALICOAT QUALITY SIGN FOR PAINT, LACQUER AND POWDER COATINGS ON ALUMINIUM FOR ARCHITECTURAL APPLICATIONS.

Date of issue of the licence: 15.03.2000
Period of validity of the licence: until 31.12.2017

Zurich, 15 November 2016

QUALICOAT

M. C. Panam

Mohammed C. Panam
President

CERTIFICATION BODY

JS

Josef Schoppig
AC-Fiduciaire SA



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Internet: www.qualicoat.net

INTRODUCTION TO THE SYSTEM

HTB 62 Thermal break hinged system is a unique, elegant 62mm width frame designed to achieve a better performance with a wide variety of frames available to cover the needed applications. It is designed for heavy duty use (H-HC40) according to the American National Standard .The results have been impressive to energy conservation, sound reduction, water and dust proofing.

The importance of thermal conductivity in the aluminum frame becomes apparent when one considers that the frame accounts for an average of 25% of the total window surface. All profiles are available in all colors in order to meet today's modern architectural requirements, along with the possibility of bi-coloration due to the separation done by the thermal break strips.

For better performance of the System, Alignment cleats for the frame and the shutter are used. Durable weather sealment mastic is a must at all joints. Specially designed EPDM gaskets are made available with the system to enhance the performance and create easy Assembly. Other accessories such as rollers and flush handles come as part of the system.

Sections:

The sections in gulf extrusions line are produced by extruding aluminum on a wide range of presses starting with a 800 tons to 4400 tons press. They are made of aluminum alloys 6060,6063,6082,6005 according to British Standard Specification for extrusion Dimensions Tolerances BS EN 755-9:2008 and BS EN 12020-2:2008

Frame:

Tubular with a width of 62mm, a wide range of frames is available to suit most of the required application in the building codes.

Sash:

Tubular straight. They are 70.5 mm thick. A wide range available to cover all applications of doors, single and double leaves and outward openings

Assembly:

Assembly of the frames and sashes is done by 45° cut whereas door bottom on profiles are custom 90°.

Glazing:

Standard or insulating ranges from "24 to 28"mm maintained by 3 EPDM gaskets and a glazing bead must be on the inside installation.

Sealing:

Sealing is achieved by the compression of 3 EPDM gaskets pressured during closing.

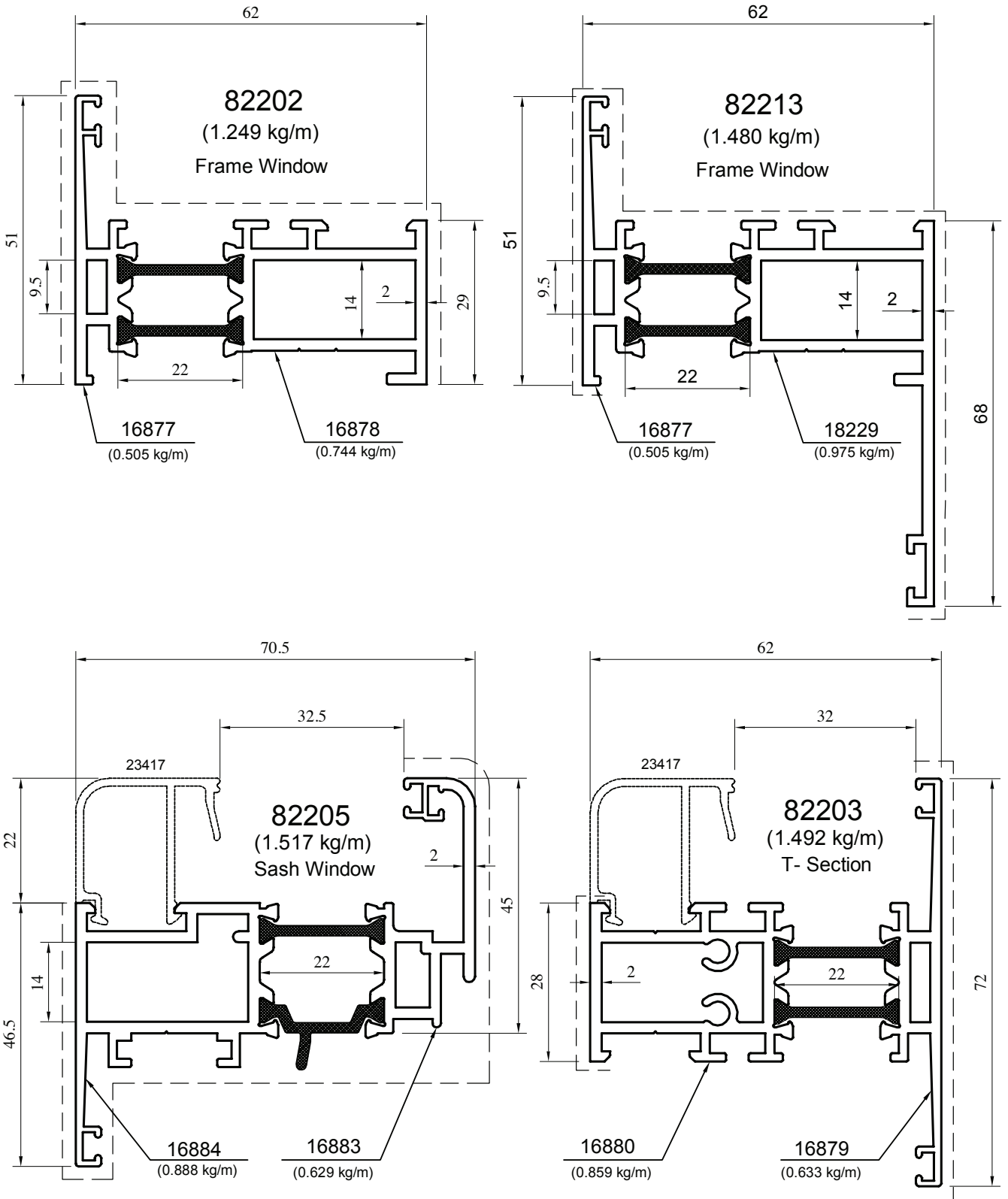
Performance:**THERMAL SYSTEM**

Casement & Turn + Tilt Window /HINGED DOOR

1. 22.0mm Polyamide strip can withstand up to 220°C with high thermal resistance to reduce heat transfer from $k= 5.7 \text{ W/M}^2\text{K}$ to $K=3.0 \text{ W/M}^2\text{K}$
2. Insulated glass unit, ensuring the performance of the system interims of energy conservation and sound insulation.
3. Outer contact gasket for efficient sound insulation and sealing against water and dust.
4. Inner gasket to enhance the system performance.
5. Central sealing Gasket.
6. Special EPDM GASKETS TO HOLD GLASS IN POSITION.

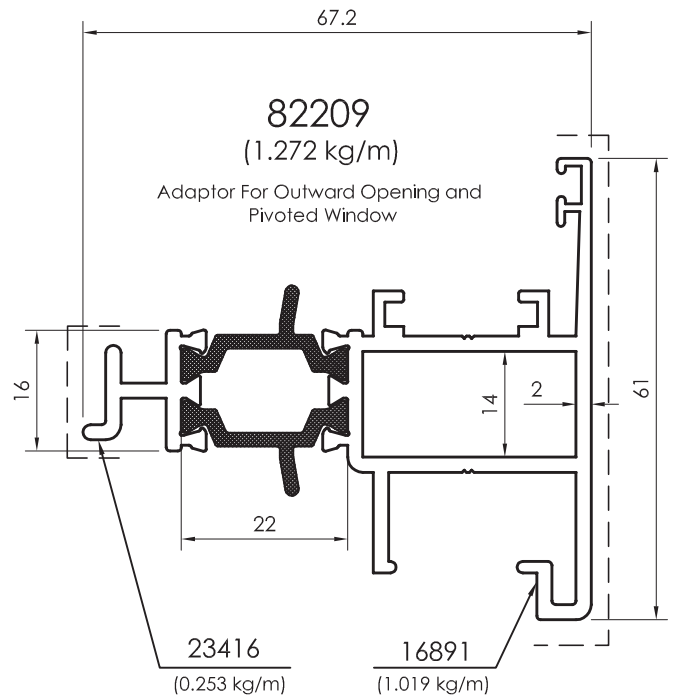
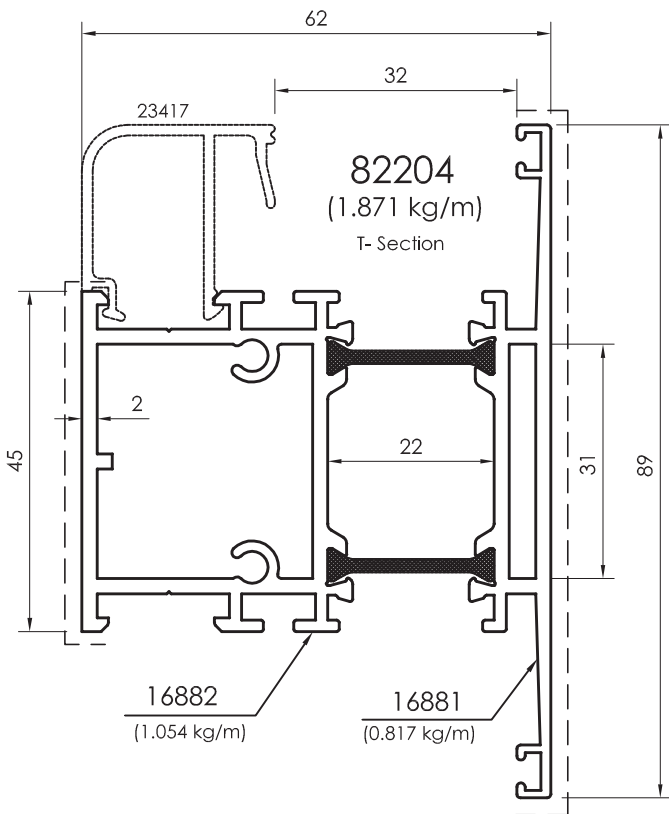
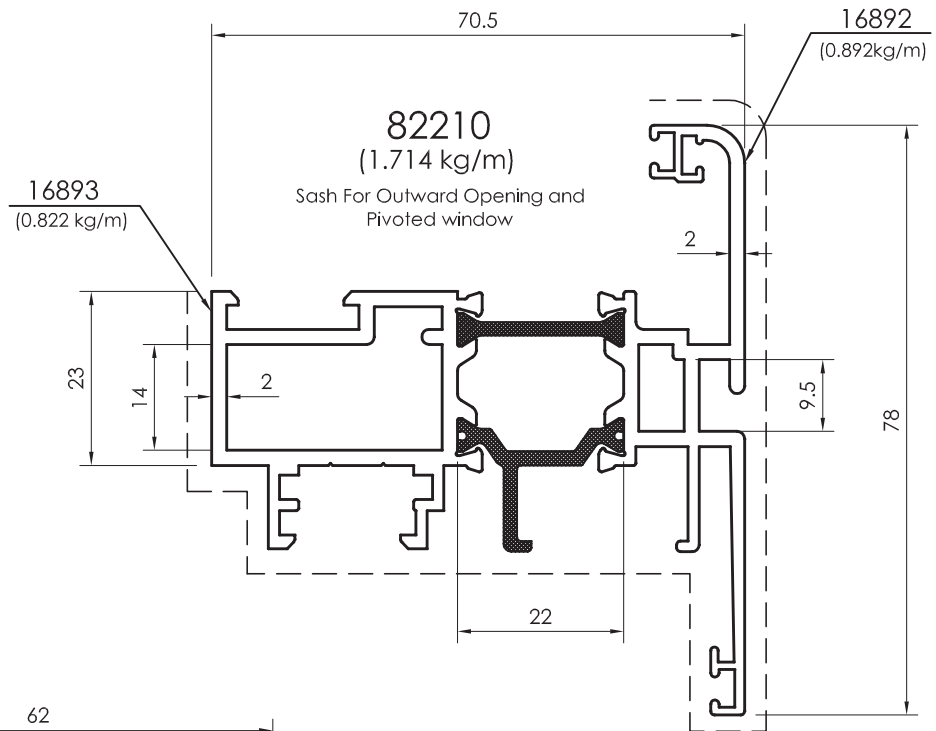
PROFILES

Window Profiles



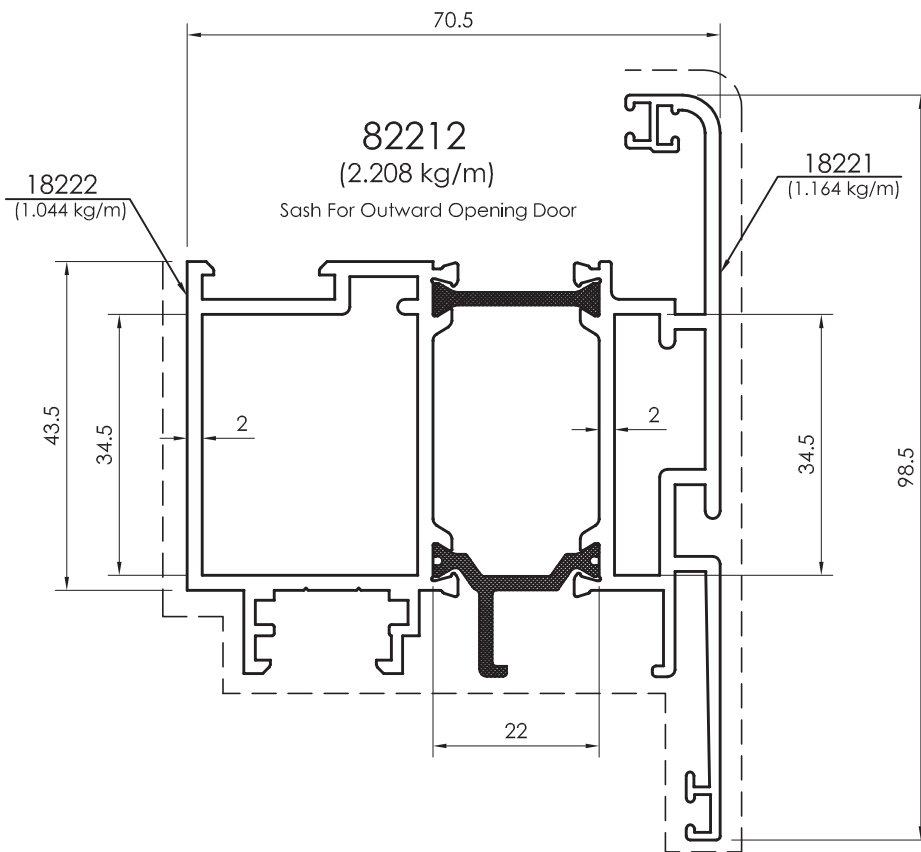
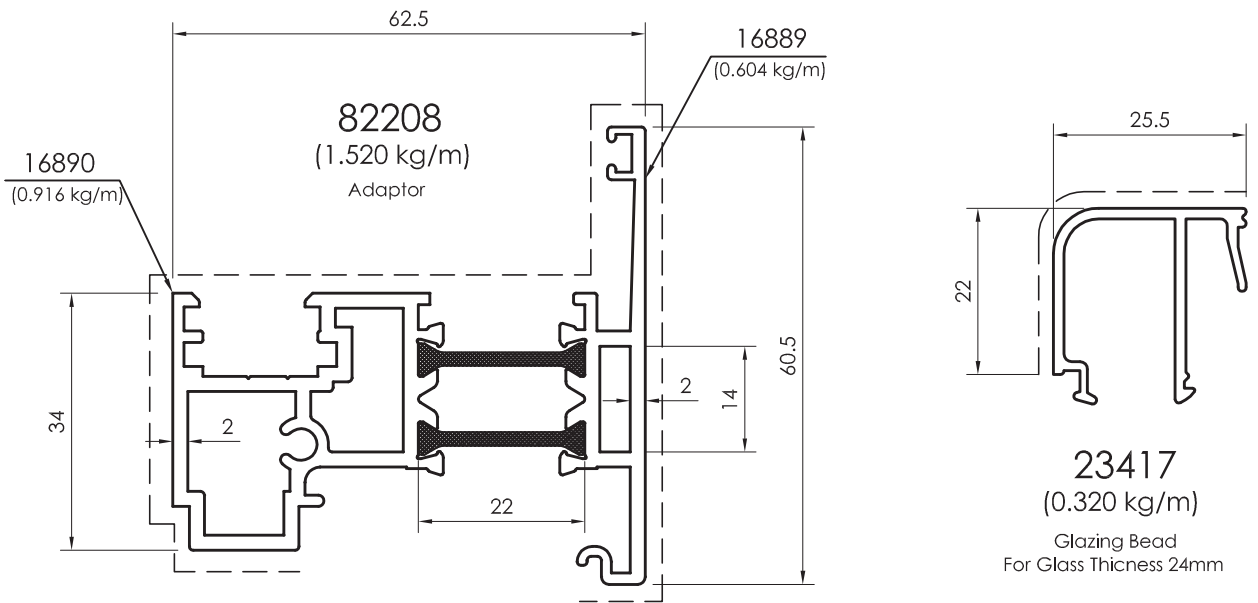
All dimensions in mm
 Visible area.....

Pivot / T - Profiles



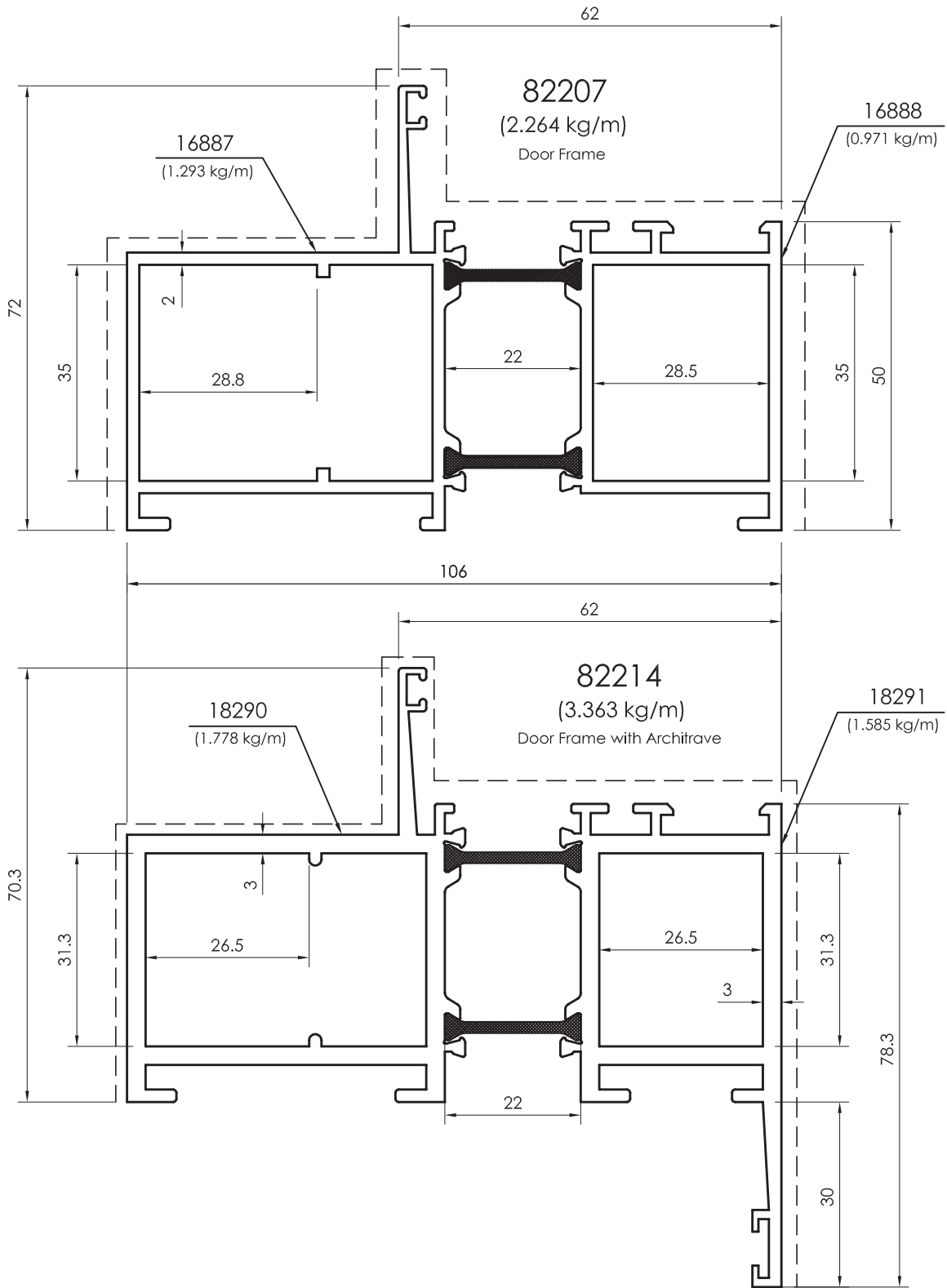
All dimensions in mm
----- Visible area

Sash Profiles



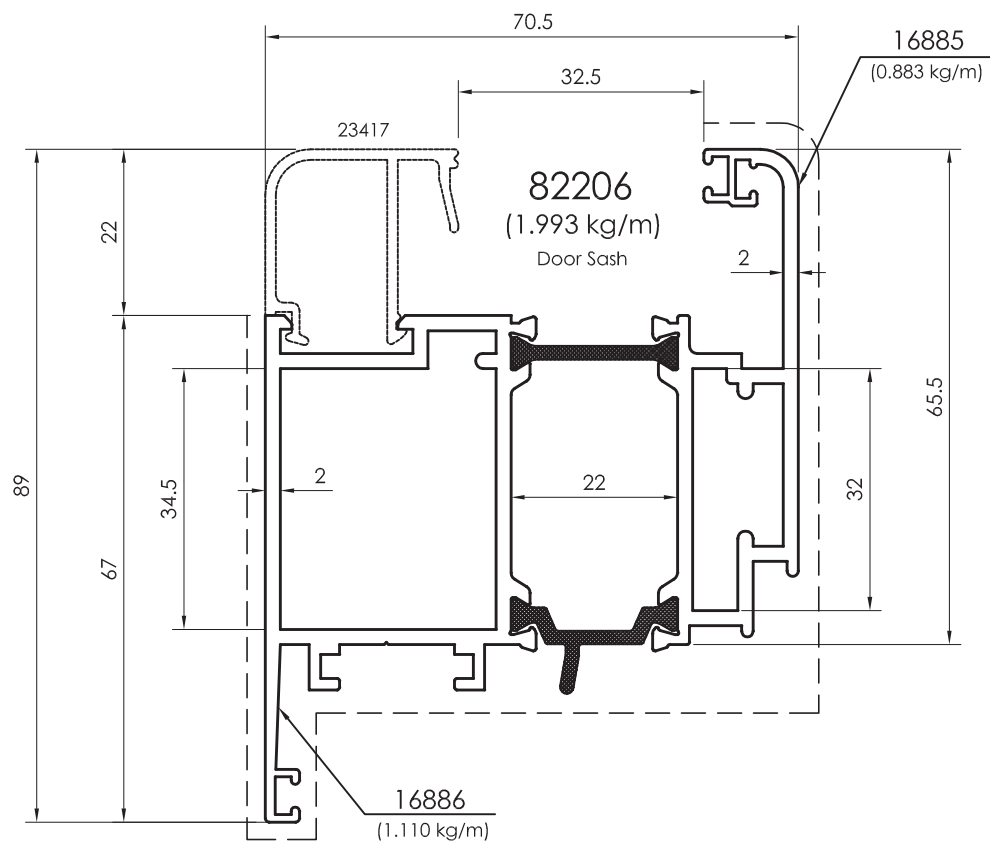
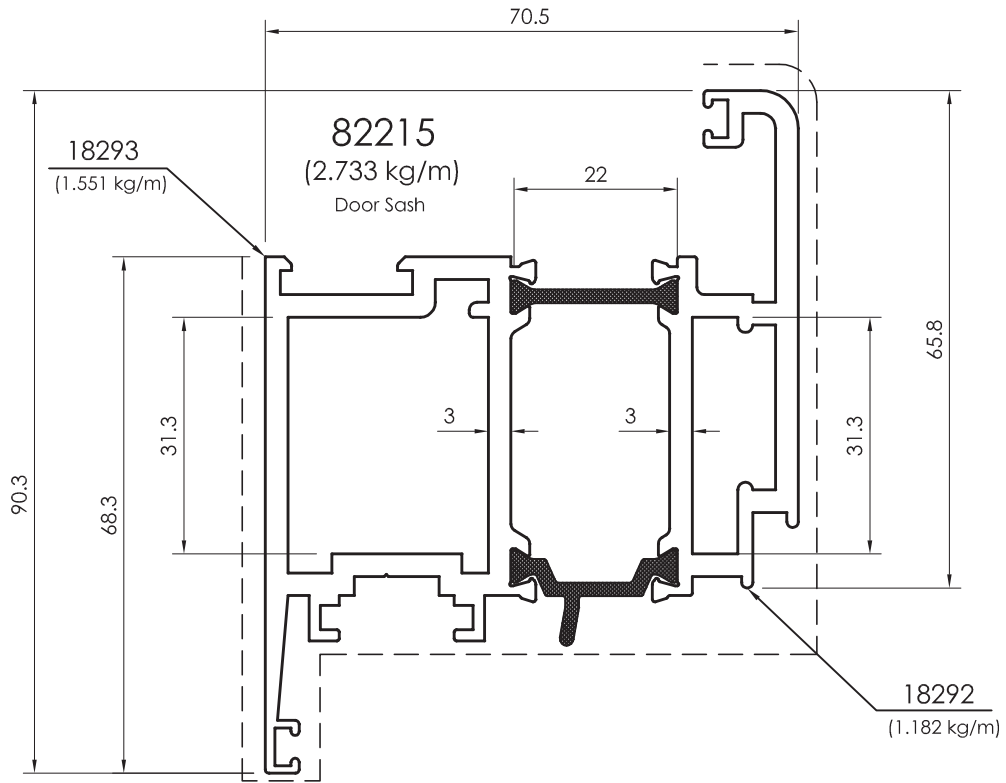
All dimensions in mm
Visible area_____

Frame Profiles



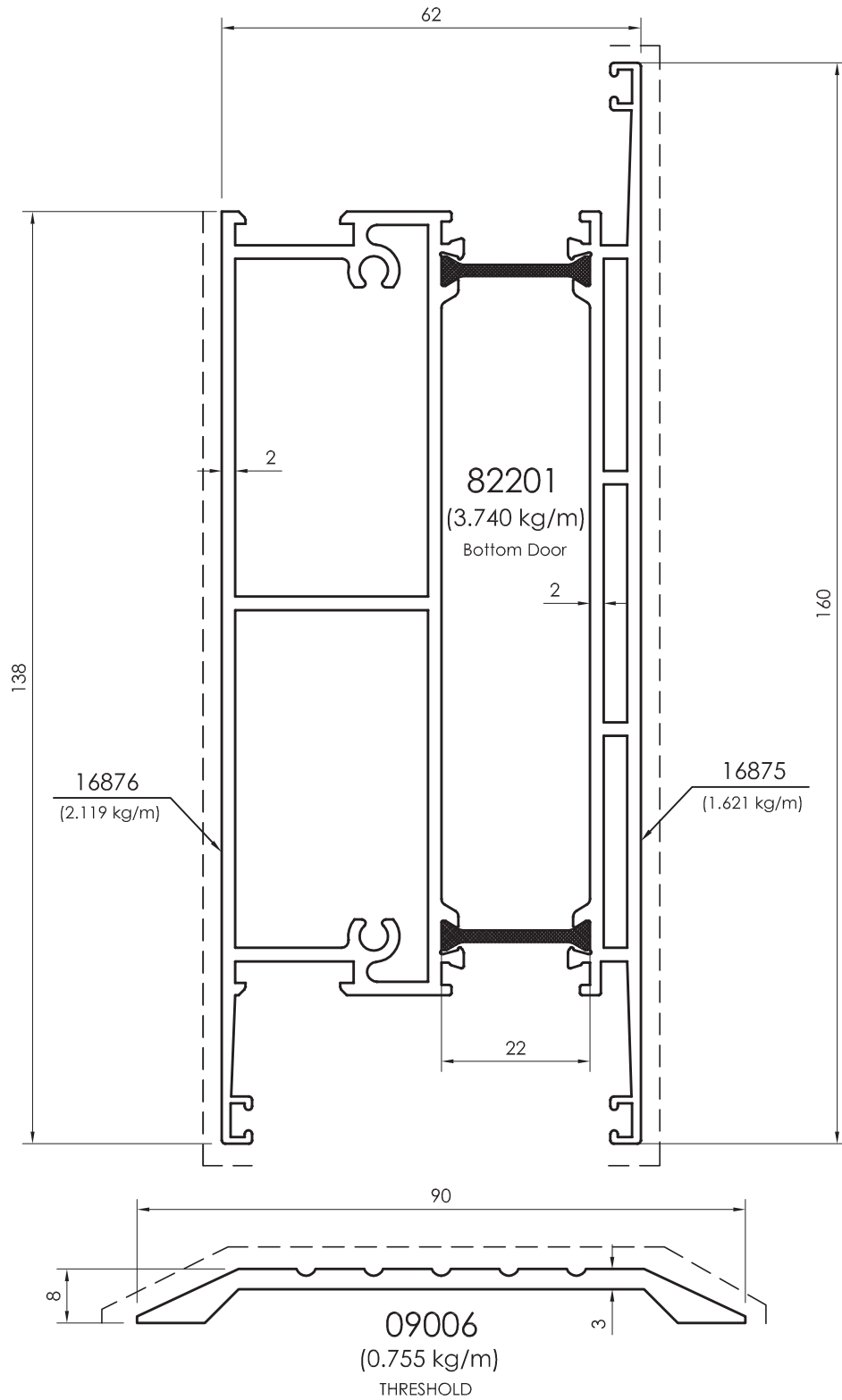
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Sash Profiles



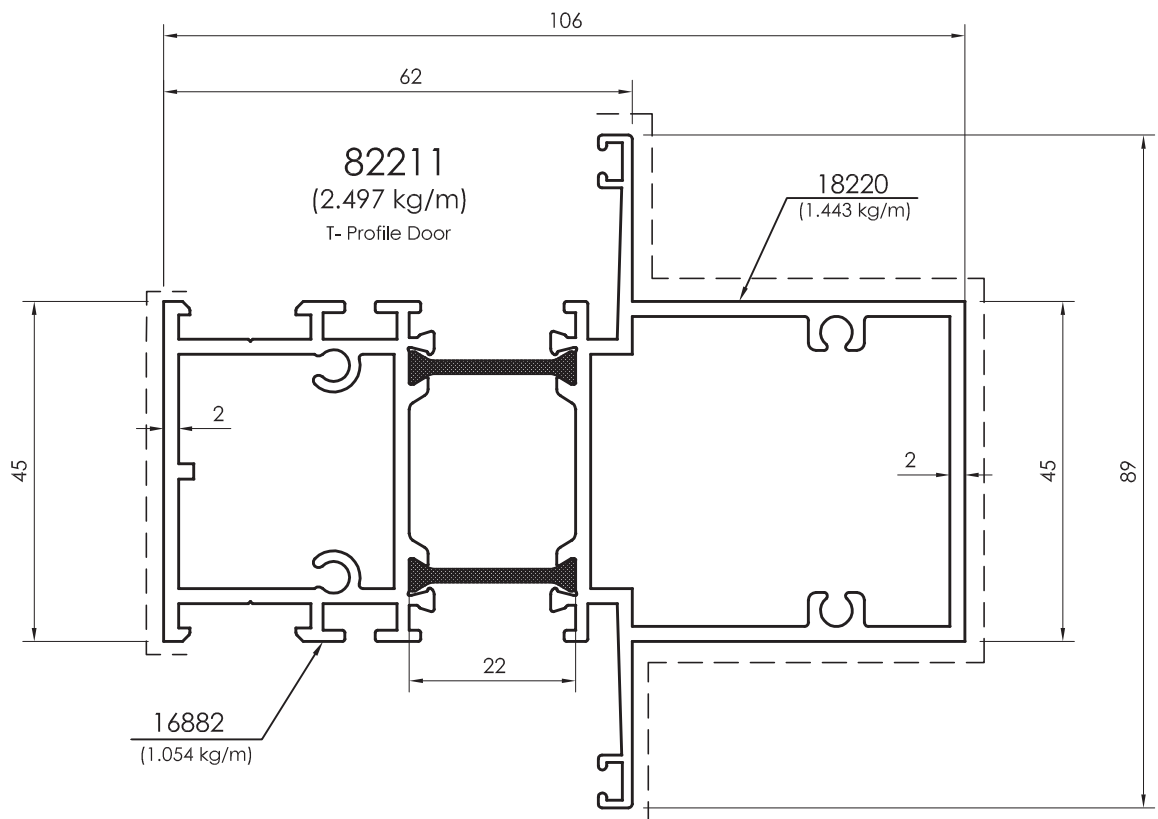
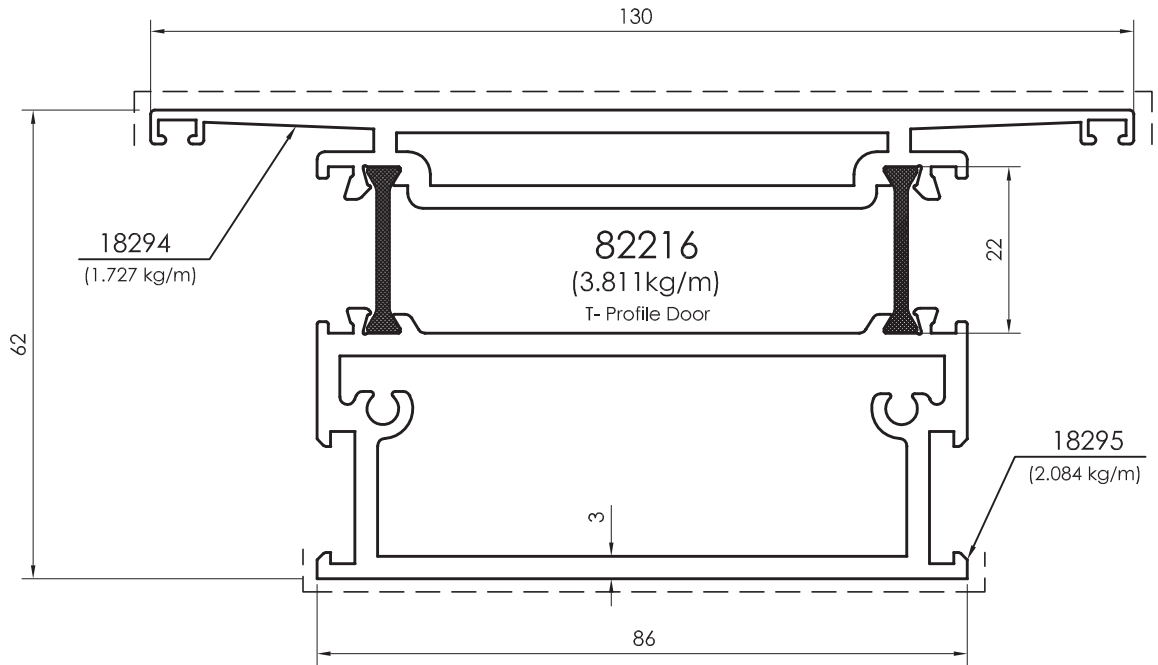
All dimensions in mm
Visible area_____

Door Bottom Profiles



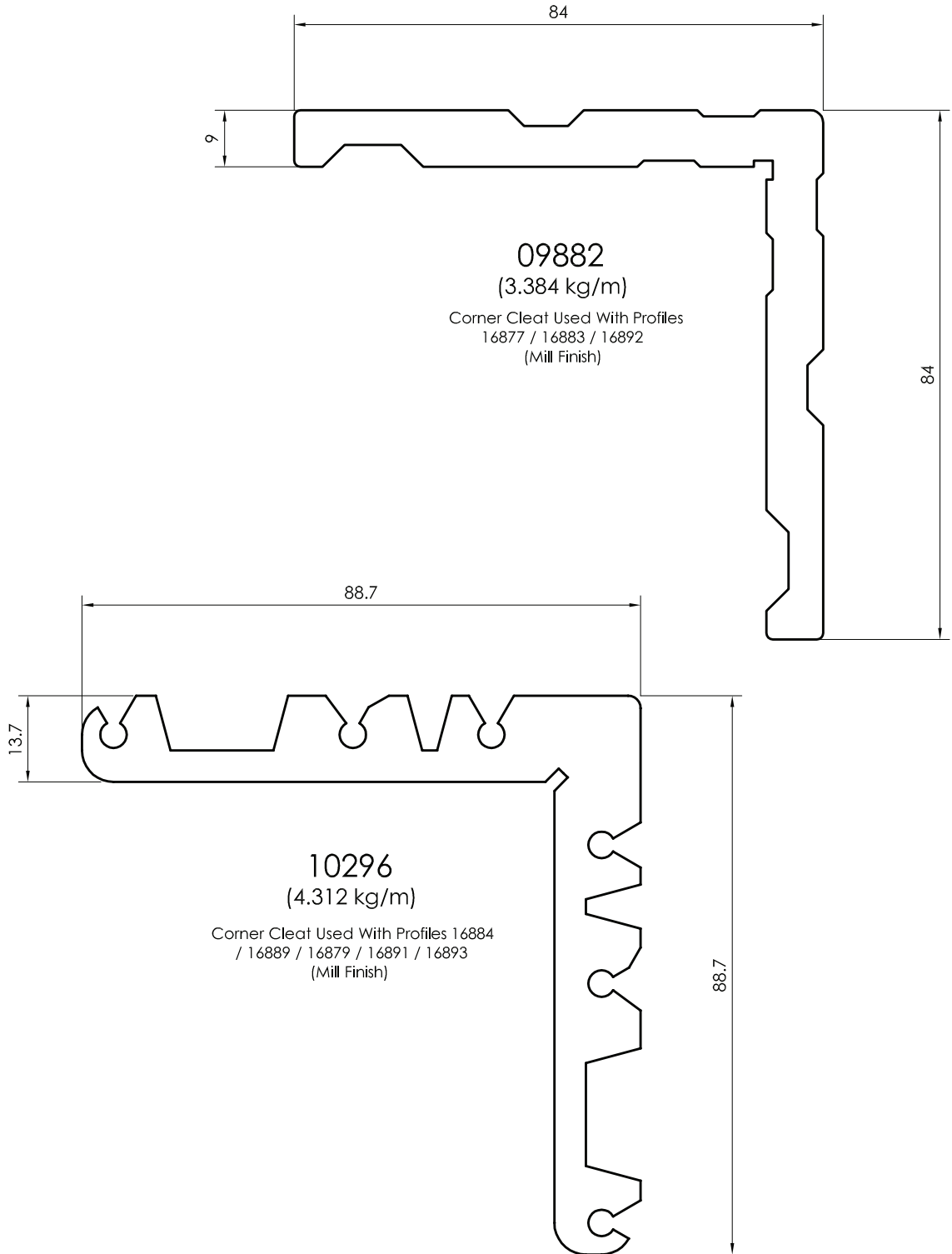
All dimensions in mm
 - - - - - Visible area

T - Profiles Door



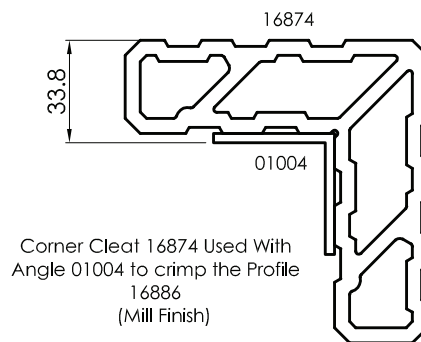
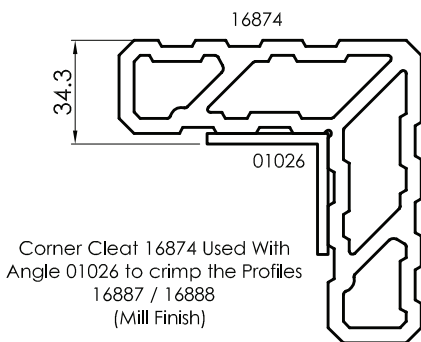
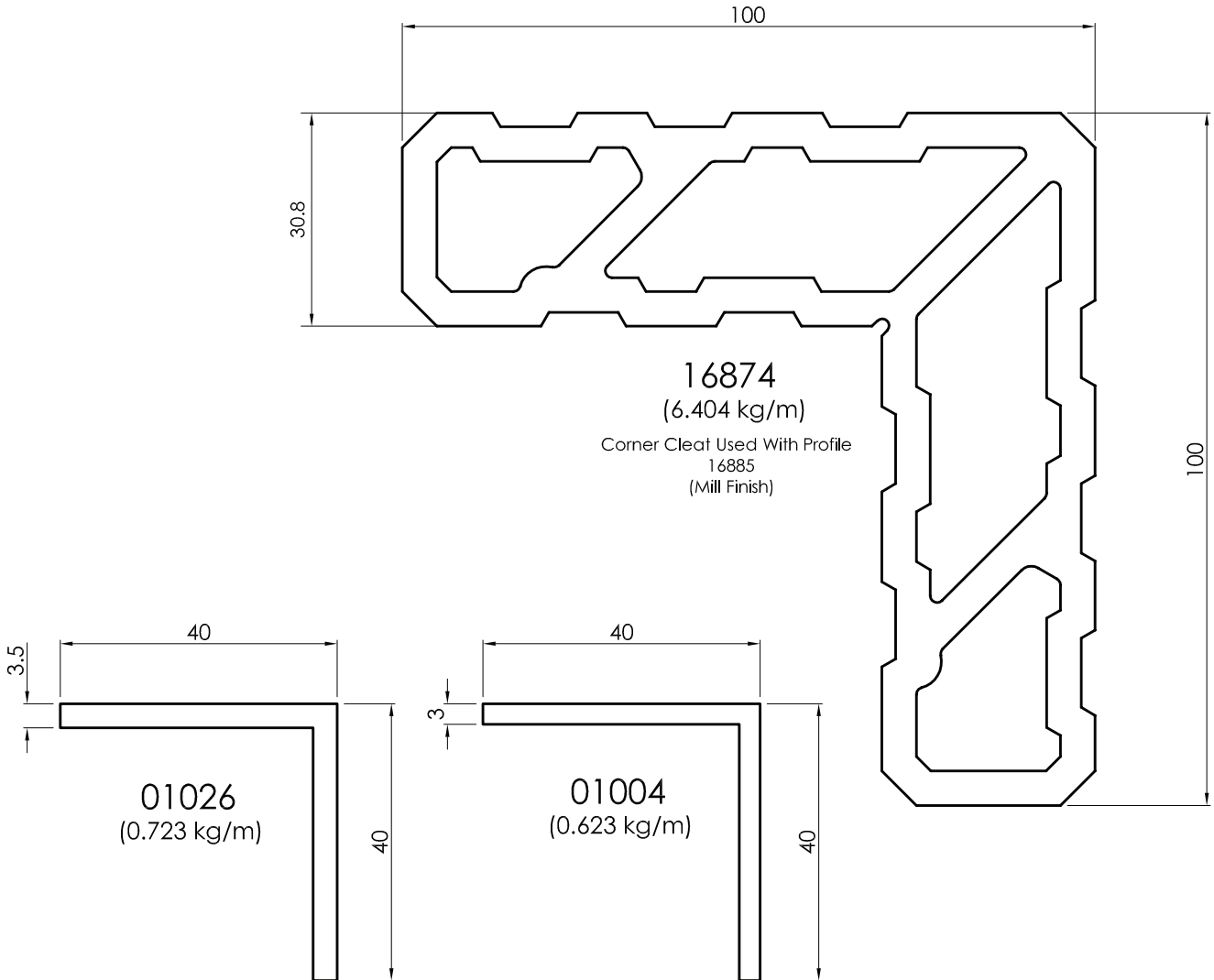
All dimensions in mm
Visible area_____

Corner Cleat Profiles



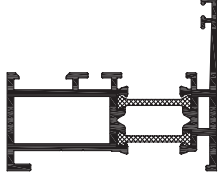
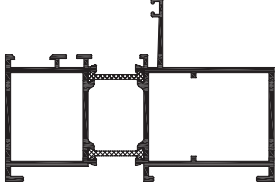
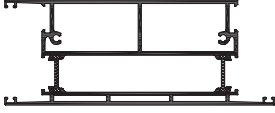
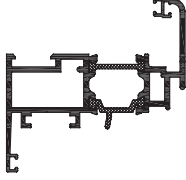
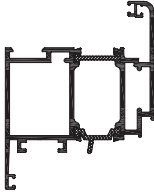
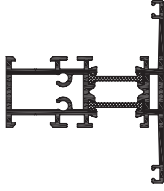
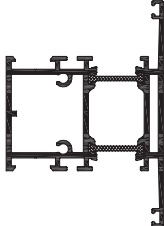
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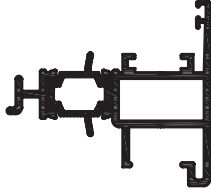
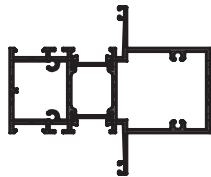
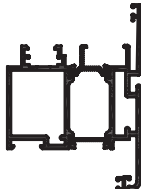
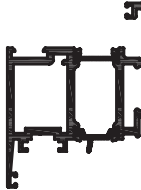
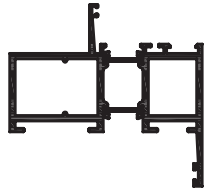
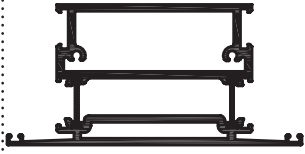
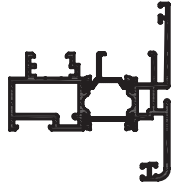
Corner Cleat Profiles

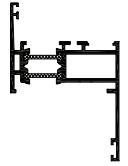
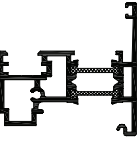









All dimensions in mm
Visible area_____





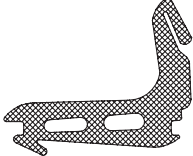
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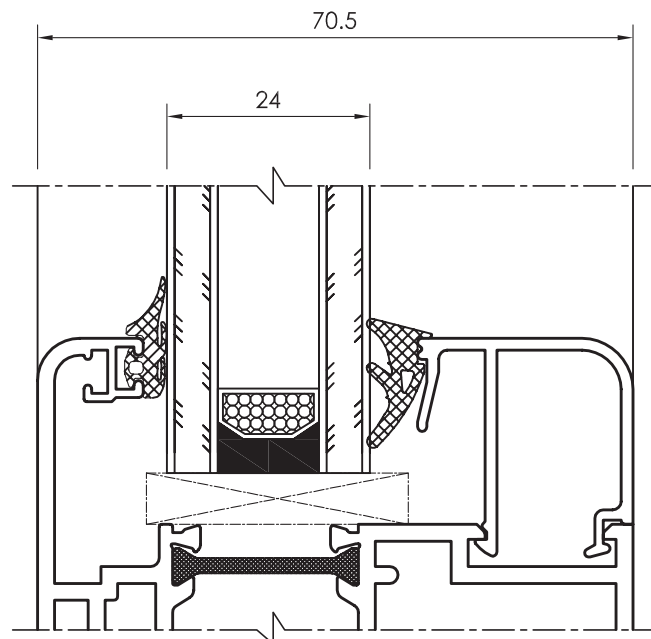
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82207	16887 + 16888		17	2.264	29.877	98.615	6.664	17.644
82201	16875 + 16876		19	3.740	261.154	75.377	31.843	21.391
82205	16883 + 16884		14	1.517	11.720	36.385	3.360	9.973
82206	16885 + 16886		18	1.993	34.184	48.540	7.572	12.960
82203	16879 + 16880		14	1.492	9.479	26.903	2.633	7.304
82204	16881 + 16882		15	1.871	25.015	35.000	5.621	9.528

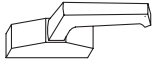
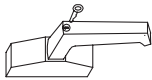

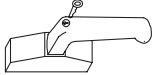


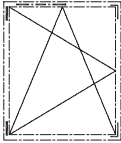
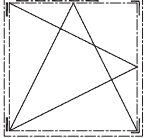
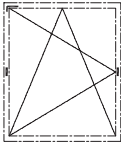
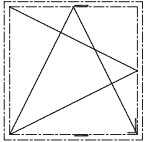
Profile Reference	Child Profile	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
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82211	16882 + 18220		20	2.497	35.025	101.582	7.870	18.380
82212	18221 + 18222		16	2.208	43.289	50.783	8.364	12.048
82215	18292 + 18293		18	2.733	65.528	24.511	96.286	17.804
82214	18290 + 18291		17	3.363	48.970	153.856	9.265	26.293
82216	18294 + 18295		20	3.811	141.202	69.095	21.713	19.318
82210	16892 + 16893		15	1.714	16.350	38.614	3.895	9.151

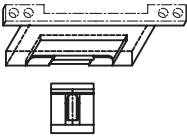
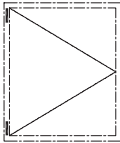
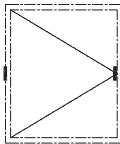
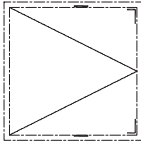
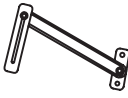
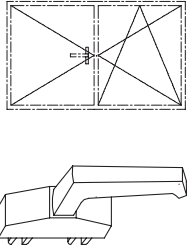

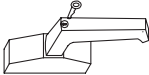

Profile Reference	Child Profile	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
82213	16877 + 18229		14	1.480	17.910	33.162	3.474	10.675
82208	16889 + 16890		16	1.520	9.260	29.069	2.574	8.275
09006	--		19	0.755	0.130	19.95	0.260	4.430
23417	--		16	0.320	0.817	0.854	0.502	0.625
09882	--		21	3.384	--	--	--	--
10296	--		21	4.312	--	--	--	--
16874	--		22	6.404	--	--	--	--
01004	--		22	0.623	--	--	--	--
01026	--		22	0.723	--	--	--	--

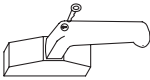


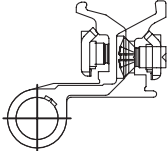
ACCESSORIES

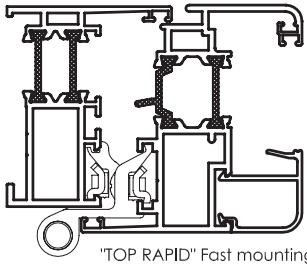
Gasket Reference	Section	Description	Unit
RUB - 070		FRONT GLAZING RUBBER USED WITH THE FRAME & SASH PROFILE (FOR WINDOW & DOORS)	Linear Meter
600.13.002 (SG 2244)		RUBBER USED WITH GLAZING BEAD	Linear Meter
RUB - 060		RUBBER USED WITH SASH	Linear Meter
600.13.010		RUBBER USED WITH SASH	Linear Meter
RUB - 020		CENTRAL GASKET	Linear Meter



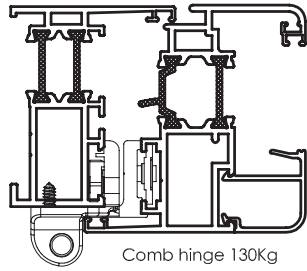
Accessories Reference	Section	Description	Finish / Unit
600.16.020		NORMAL HANDLE NO. 26	NATURAL COATED = STANDARD DARKBRONZE COATED = STANDARD WHIETE COATED = STANDARD
600.16.021		HANDLE NO. 26 WITH LOCK	WHITE COATED = STANDARD NATURAL ANODIZED DARKBRONZE ANODIZED
600.16.022		HANDLE NO. 26 (ROUND)	WHITE COATED = STANDARD NATURAL ANODIZED DARKBRONZE ANODIZED
600.16.023		HANDLE NO.26 (ROUND) WITH LOCK	WHITE COATED = STANDARD NATURAL ANODIZED DARKBRONZE ANODIZED
600.16.024		GEAR NO. 26	WHITE COATED = STANDARD NATURAL ANODIZED DARKBRONZE ANODIZED
600.16.025		HANDLE FOR GEAR	NATURAL ANODIZED
600.16.030		STANDARD HARDWARE - WITHOUT HANDLE FOR TURN + TLT WINDOW STAY ARM 340 OR 500	WHITE COATED = STANDARD NATURAL ANODIZED DARKBRONZE ANODIZED
600.16.031		STANDARD HARDWARE - WITHOUT HANDLE FOR TURN + TLT WINDOW STAY ARM 1000	WHITE COATED = STANDARD NATURAL ANODIZED DARKBRONZE ANODIZED
600.16.032		MIDDLE FASTENING - UPRIGHT FOR TURN + TILT WINDOW	WHITE COATED = STANDARD NATURAL ANODIZED DARKBRONZE ANODIZED
600.16.033		MIDDLE FASTENING - HORIZONTAL INCLUDING SECOND STAY ARM WITH Z PROFILE FOR TURN + TILT + AXER 500	Piece

Accessories Reference	Section	Description	Finish / Unit
600.16.034		SAFETY LOCK NO.26	Piece
600.16.040		STANDARD HARDWARE (WITHOUT HANDLE) SIDE HUNG	WHITE COATED = STANDARD NATURAL ANODIZED DARKBRONZE ANODIZED
600.16.041		MIDDLE FASTENING - UPRIGHT FOR SIDE HUNG	WHITE COATED = STANDARD NATURAL ANODIZED DARKBRONZE ANODIZED
600.16.042		MIDDLE FASTENING - HORIZONTAL FOR SIDE HUNG	Piece
600.16.045		TILT STAY ARM	Piece
600.16.050		HARDWARE FOR DOUBLE SASHES INCLUDING STRADDLE HANDLE	NATURAL COATED = STANDARD DARKBRONZE COATED = STANDARD WHITE COATED = STANDARD NATURAL ANODIZED DARKBRONZE ANODIZED
600.16.020		NORMAL HANDLE NO.26	NATURAL COATED = STANDARD DARKBRONZE COATED = STANDARD WHITE COATED = STANDARD
600.16.021		HANDLE NO.26 WITH LOCK	WHITE COATED = STANDARD NATURAL ANODIZED DARKBRONZE ANODIZED
600.16.022		HANDLE NO.26 (ROUND)	WHITE COATED = STANDARD NATURAL ANODIZED DARKBRONZE ANODIZED

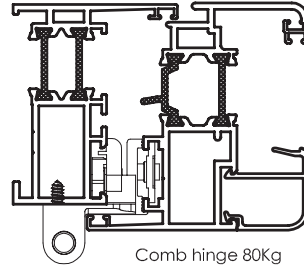
Accessories Reference	Section	Description	Finish / Unit
600.16.023		HANDLE NO.26 (ROUND) WITH LOCK	WHITE COATED = STANDARD NATURAL ANODIZED DARKBRONZE ANODIZED
600.16.024		GEAR NO.26	WHITE COATED = STANDARD NATURAL ANODIZED DARKBRONZE ANODIZED
600.16.025		HANDLE FOR GEAR	NATURAL ANODIZED
HI-62		HINGED	PIECE



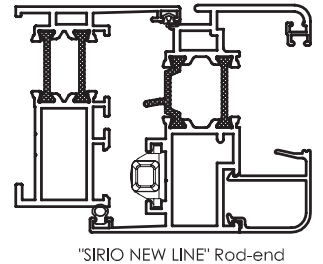
"TOP RAPID" Fast mounting hinge
"TOP RAPID TRE" Fast mounting hinge with three wings



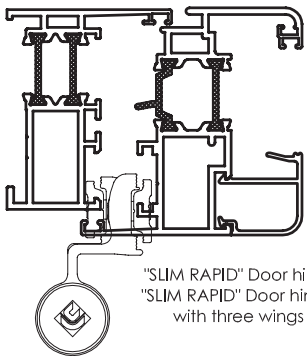
Comb hinge 130Kg



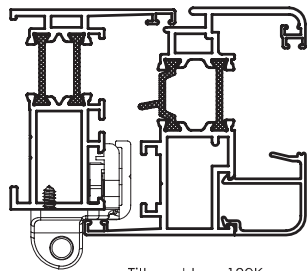
Comb hinge 80Kg



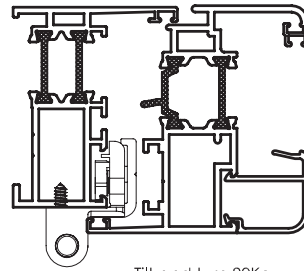
"SIRIO NEW LINE" Rod-end



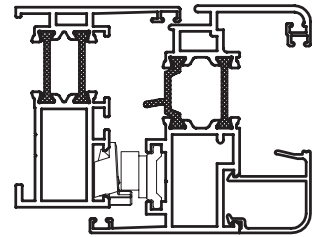
"SLIM RAPID" Door hinge
"SLIM RAPID" Door hinge with three wings



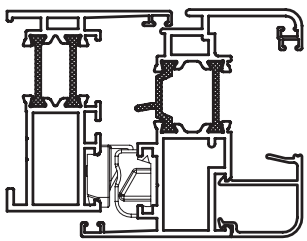
Tilt and turn 130Kg



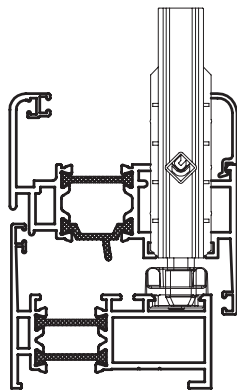
Tilt and turn 80Kg



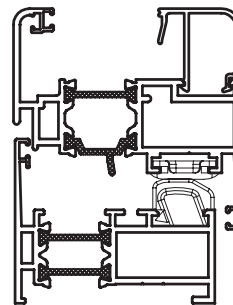
Extra locking pin



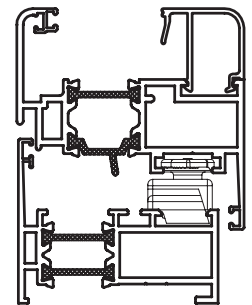
"HOOK" Additional intermediate third closing point



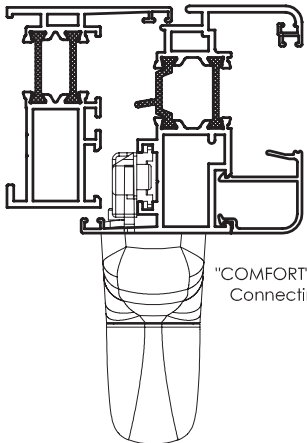
"SIRIO NEW LINE" Rod-end One rod junction



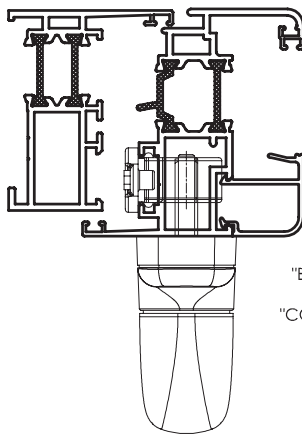
Shutter support kit



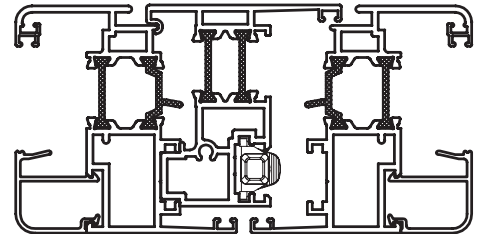
Sash stopper



"COMFORT" Cremone Connecting block



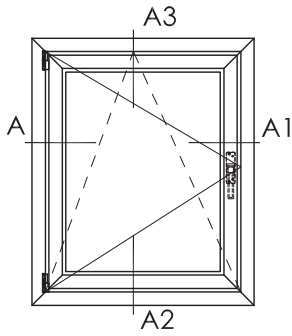
"BI-HID" Two way movement
"COMFORT" Handle



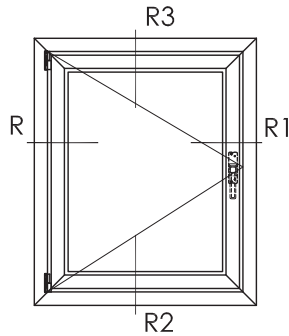
"SIRIO NEW LINE" Direct driving latch

ASSEMBLY DRAWINGS

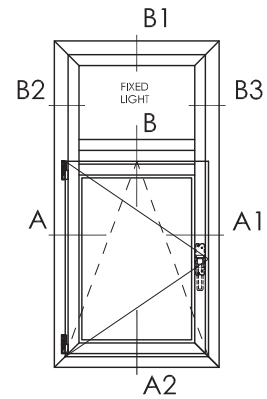
Casement Door / Window Series 62mm



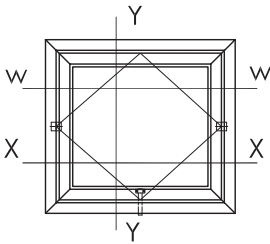
SINGLE LEAF
CASEMENT WINDOW
TURN & TILT WINDOW
(INWARD OPENING)



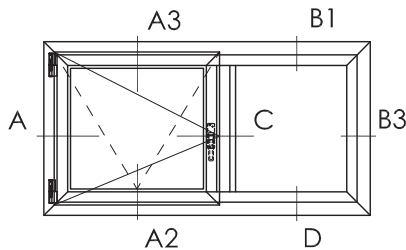
SINGLE LEAF
CASEMENT WINDOW
(OUTWARD OPENING)



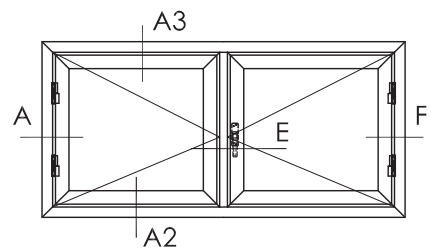
SINGLE LEAF - CASEMENT WINDOW
TURN & TILT WINDOW
WITH TOP FIXED PANEL
(INWARD OPENING)



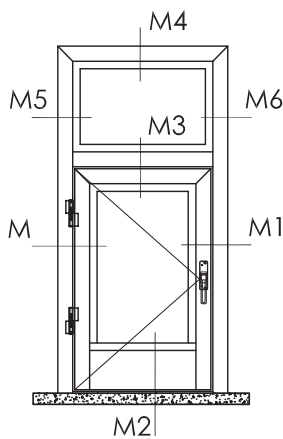
PIVOT WINDOW



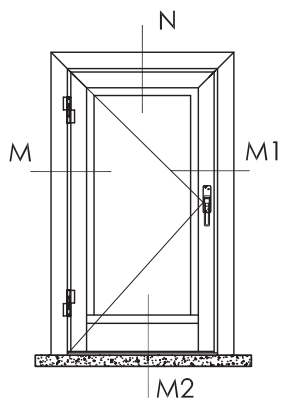
SINGLE LEAF - CASEMENT WINDOW
TURN & TILT WINDOW
WITH SIDE FIXED PANEL
(INWARD OPENING)



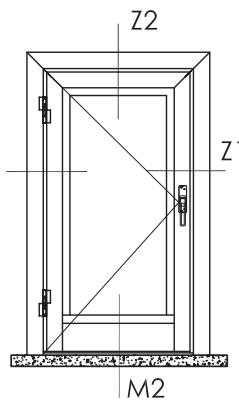
DOUBLE LEAF - CASEMENT WINDOW
(INWARD OPENING)



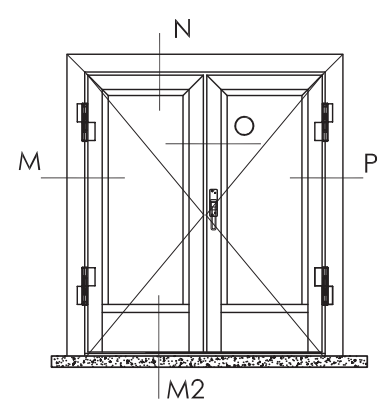
SINGLE LEAF - HINGED DOOR
WITH TOP FIXED PANEL
(INWARD OPENING)



SINGLE LEAF - HINGED DOOR
(INWARD OPENING)



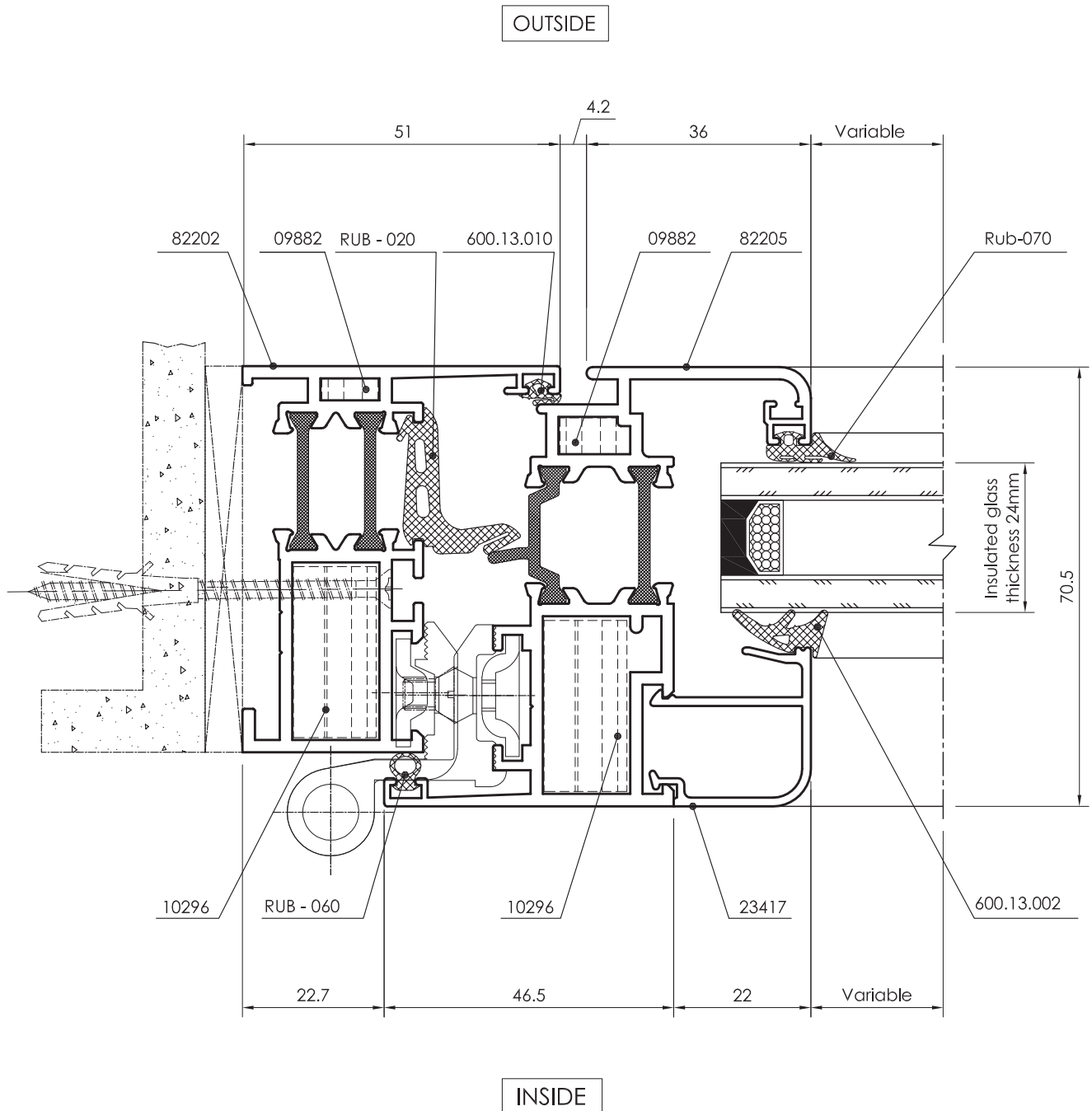
SINGLE LEAF - HINGED DOOR
(OUTWARD OPENING)



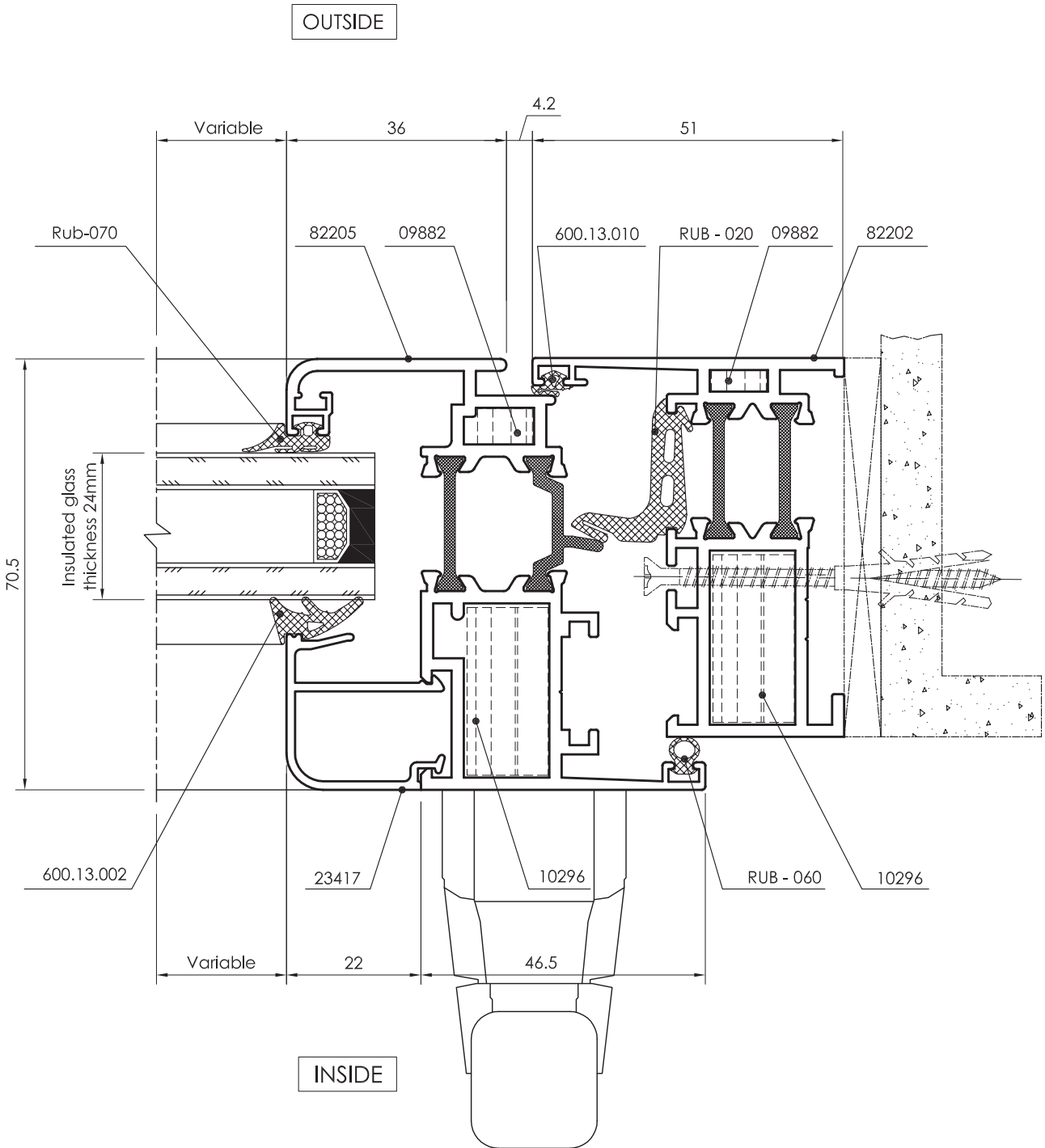
DOUBLE LEAF - HINGED DOOR
(INWARD OPENING)

Casement Door / Window Series 62mm - Inward Opening

Detail - A

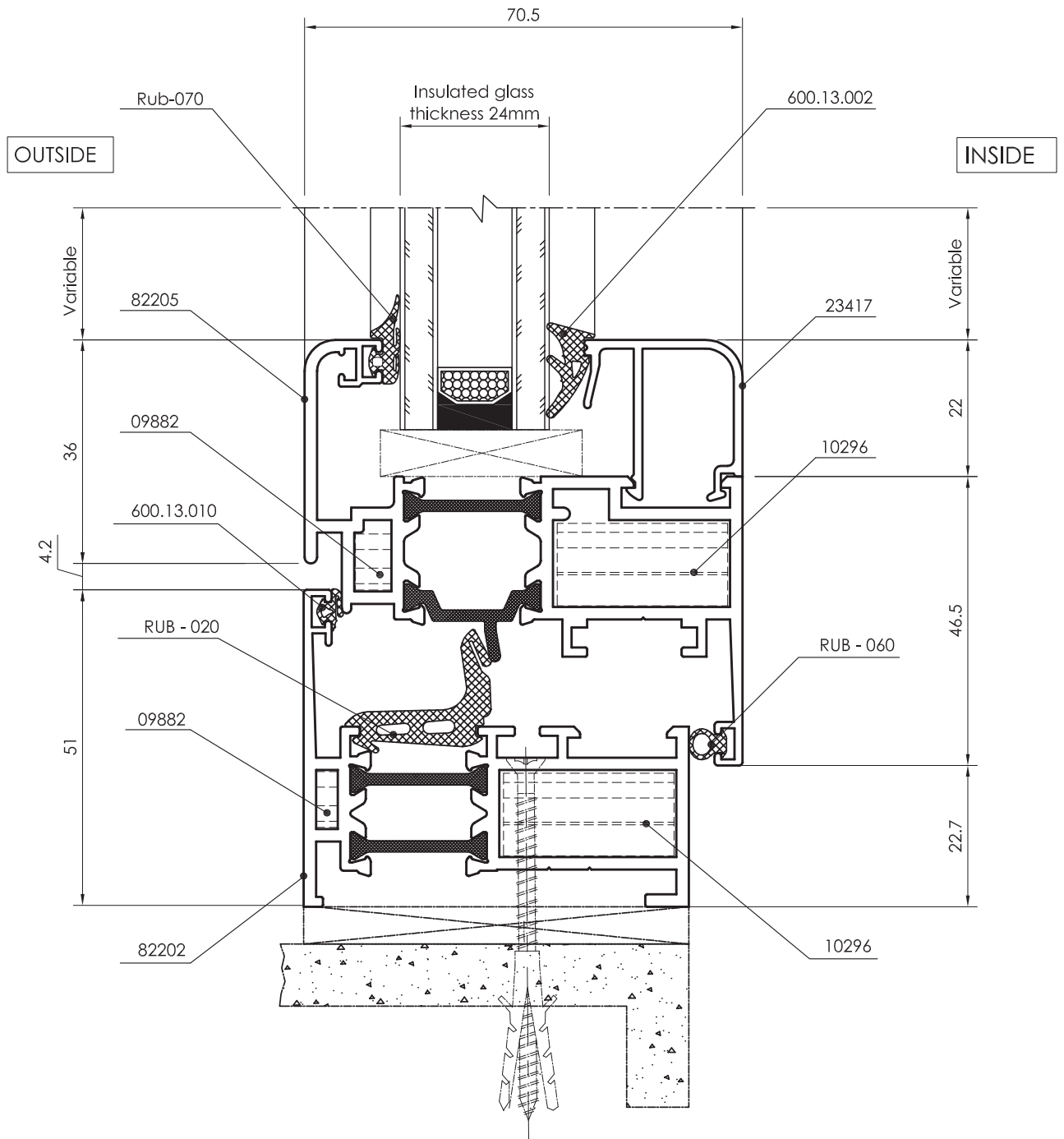


Casement Window Series 62mm - Inward Opening
Detail - A1

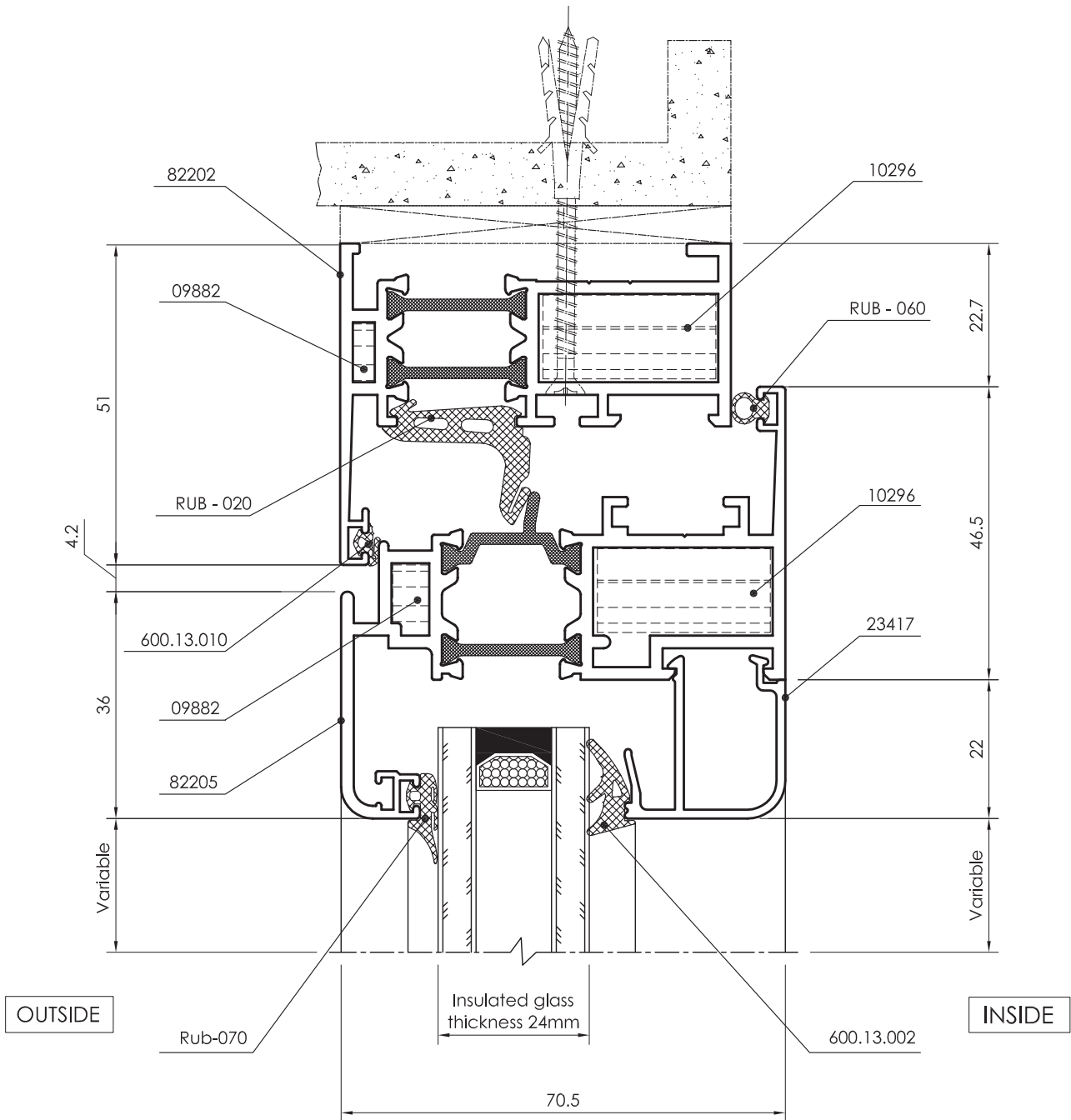


Casement Window Series 62mm - Inward Opening

Detail - A2

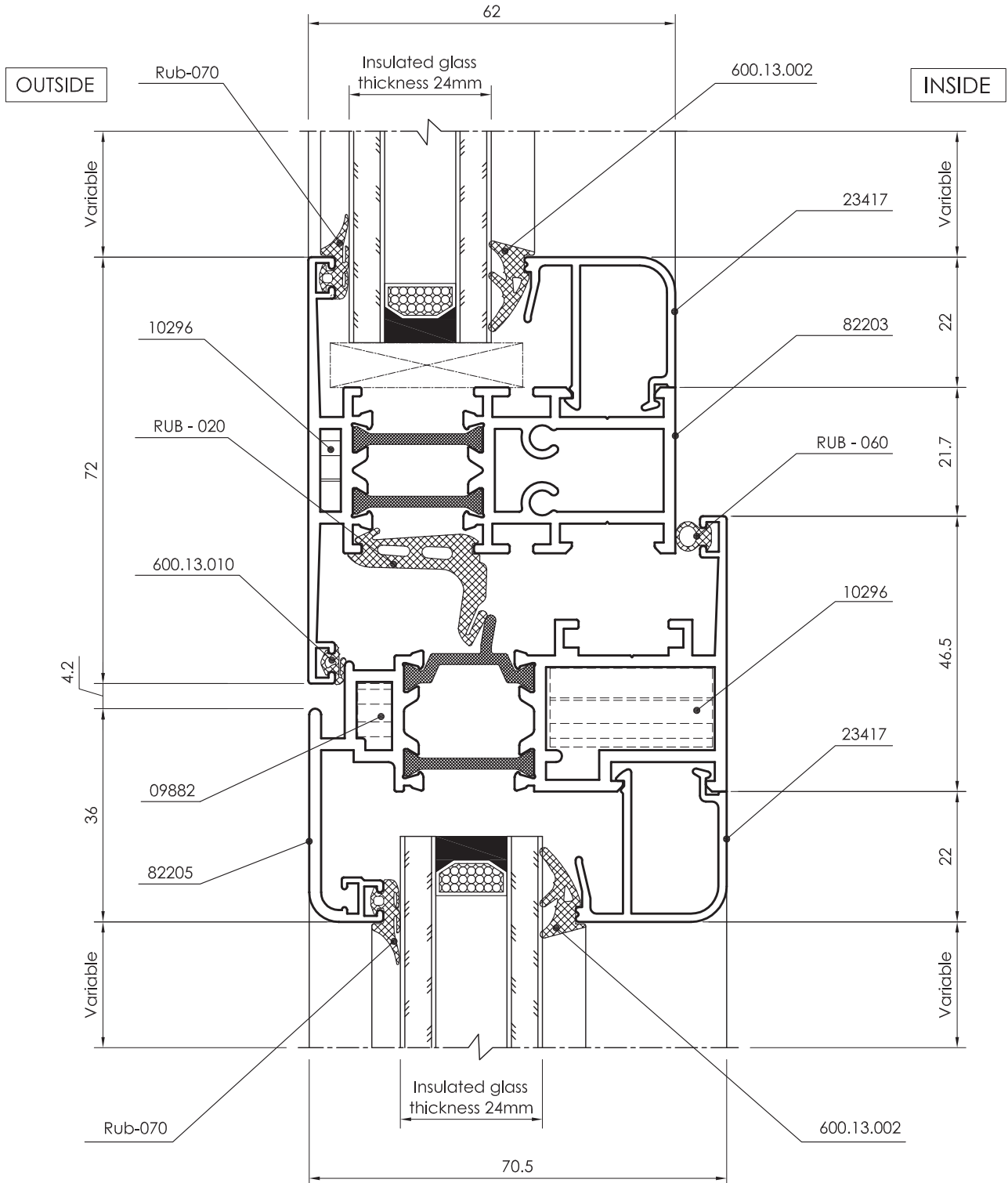


Casement Window Series 62mm - Inward Opening
 Detail - A3



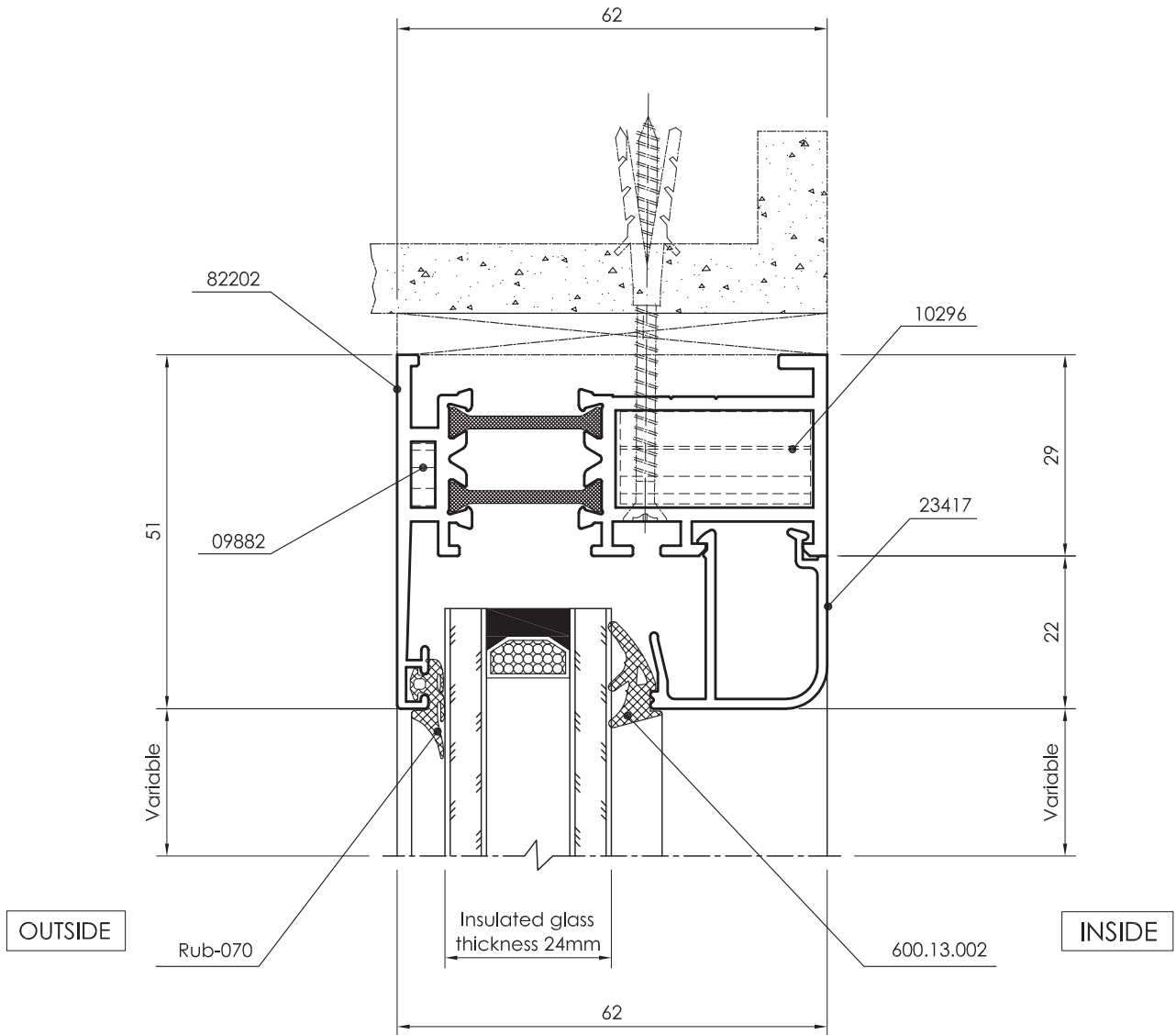
Casement Window Series 62mm - Inward Opening

Detail - B



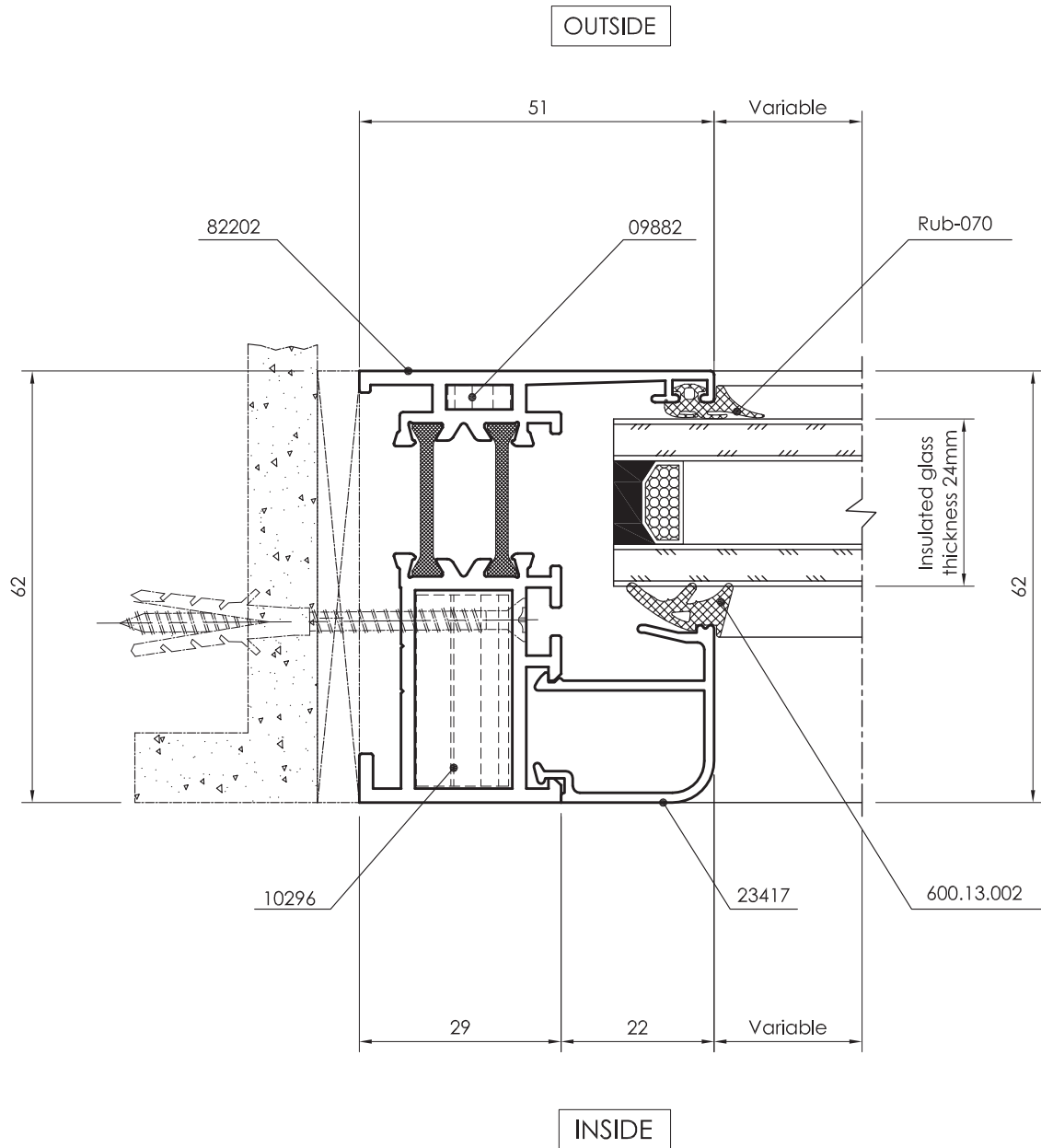
Casement Window Series 62mm - Top Fixed

Detail - B1



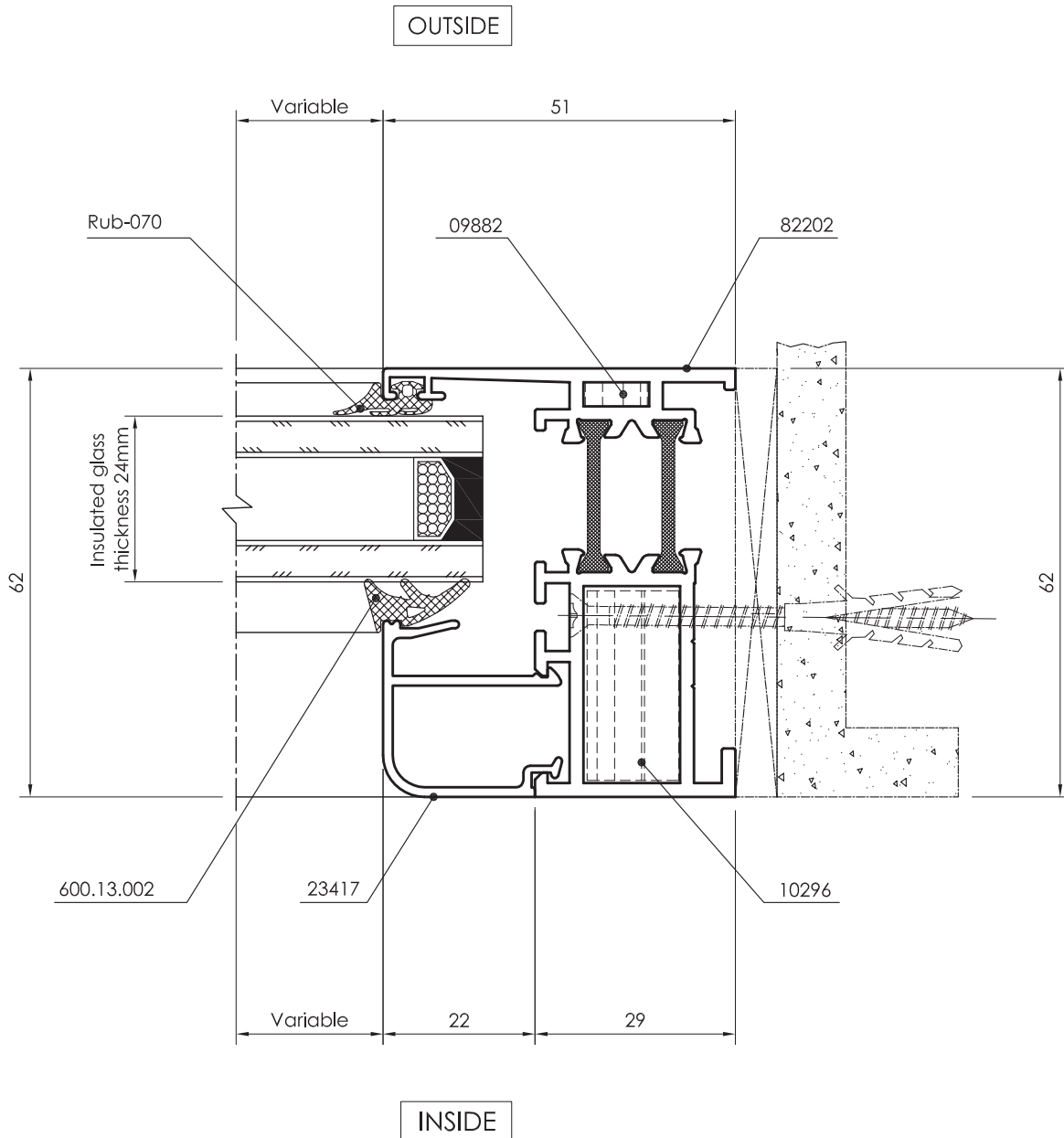
Casement Window Series 62mm - Left Fixed

Detail - B2

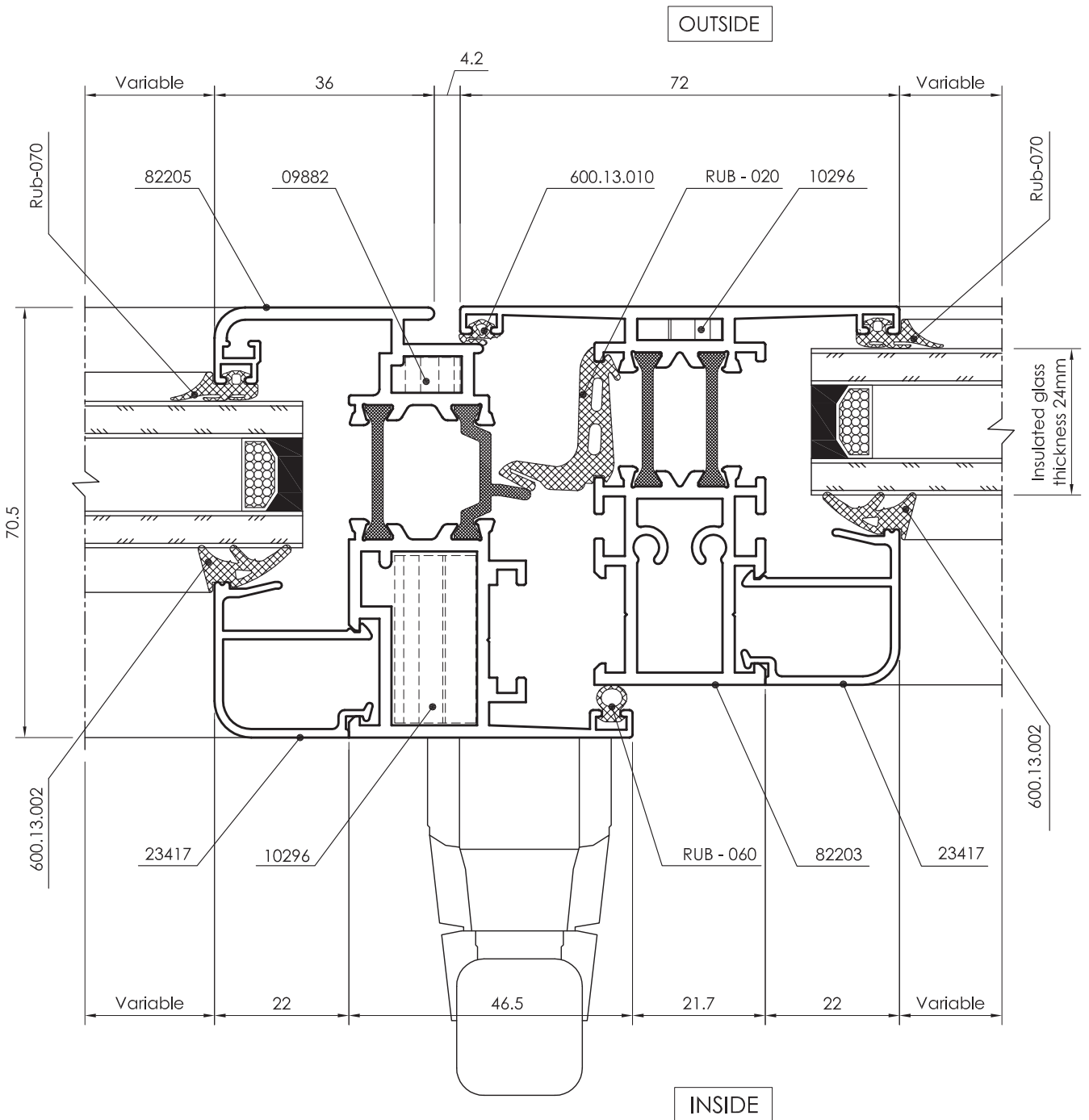


Casement Window Series 62mm - Right Fixed

Detail - B3

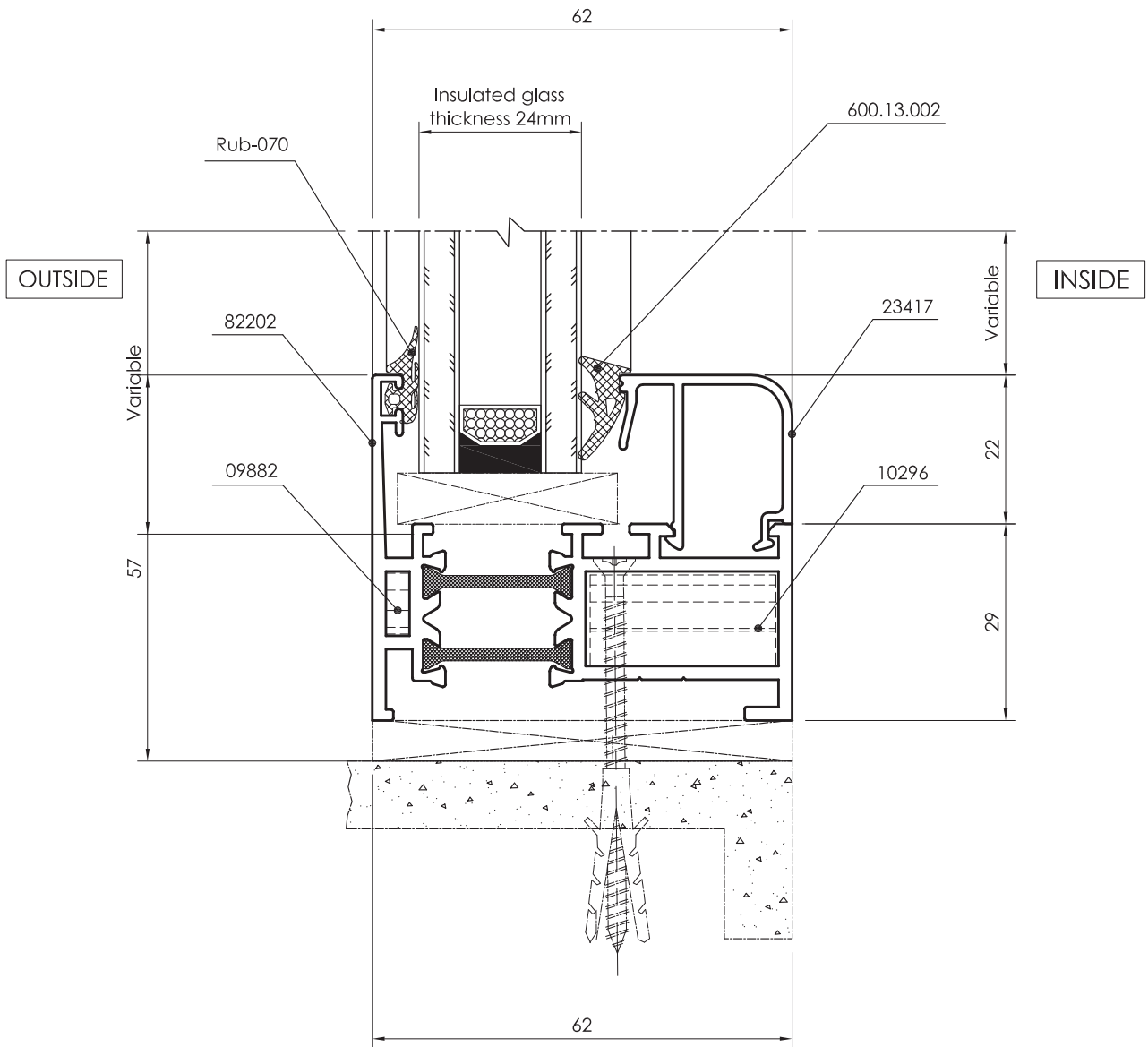


Casement Window Series 62mm - Inward Opening
Detail - C

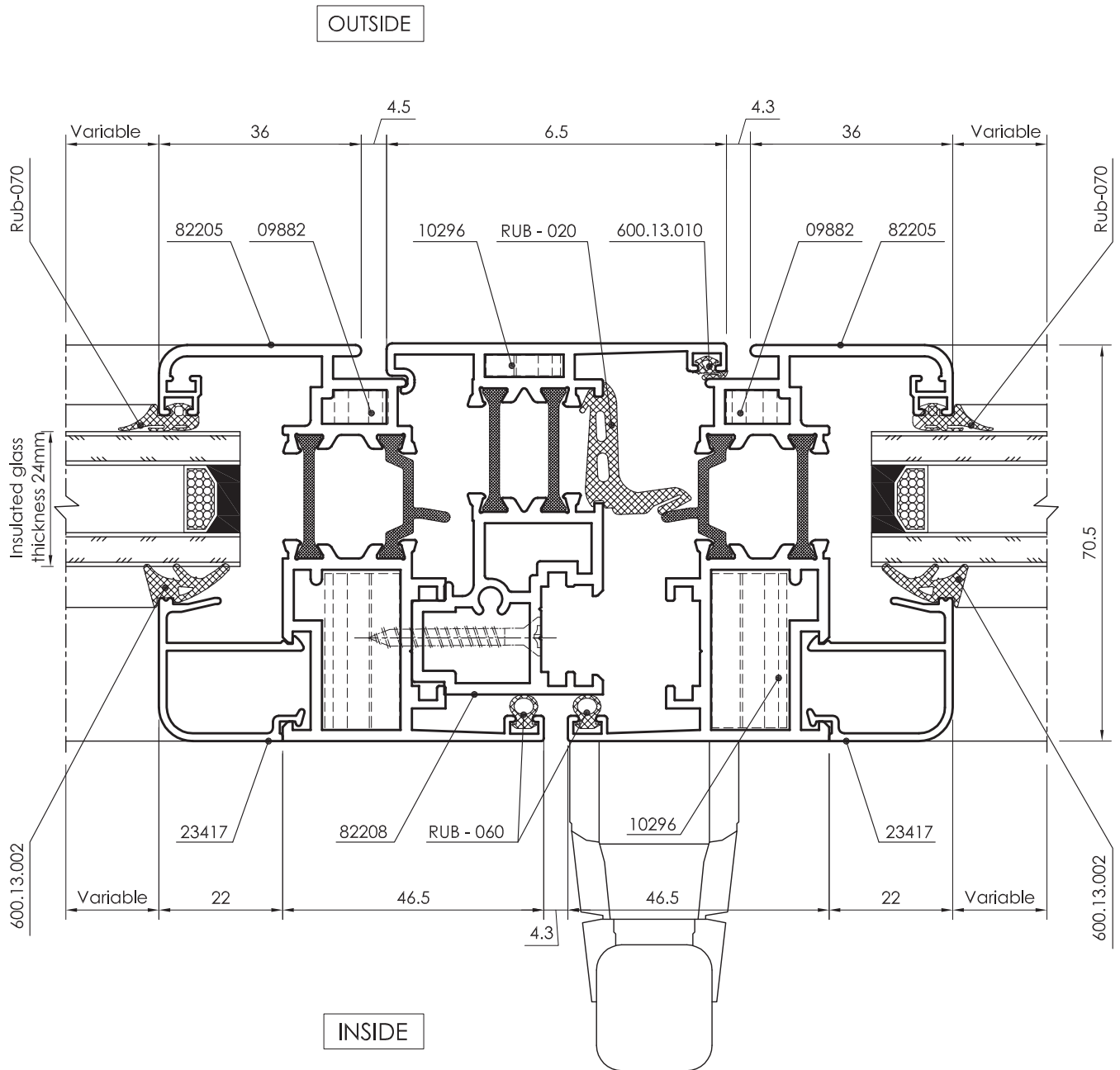


Casement Window Series 62mm - Bottom Fixed

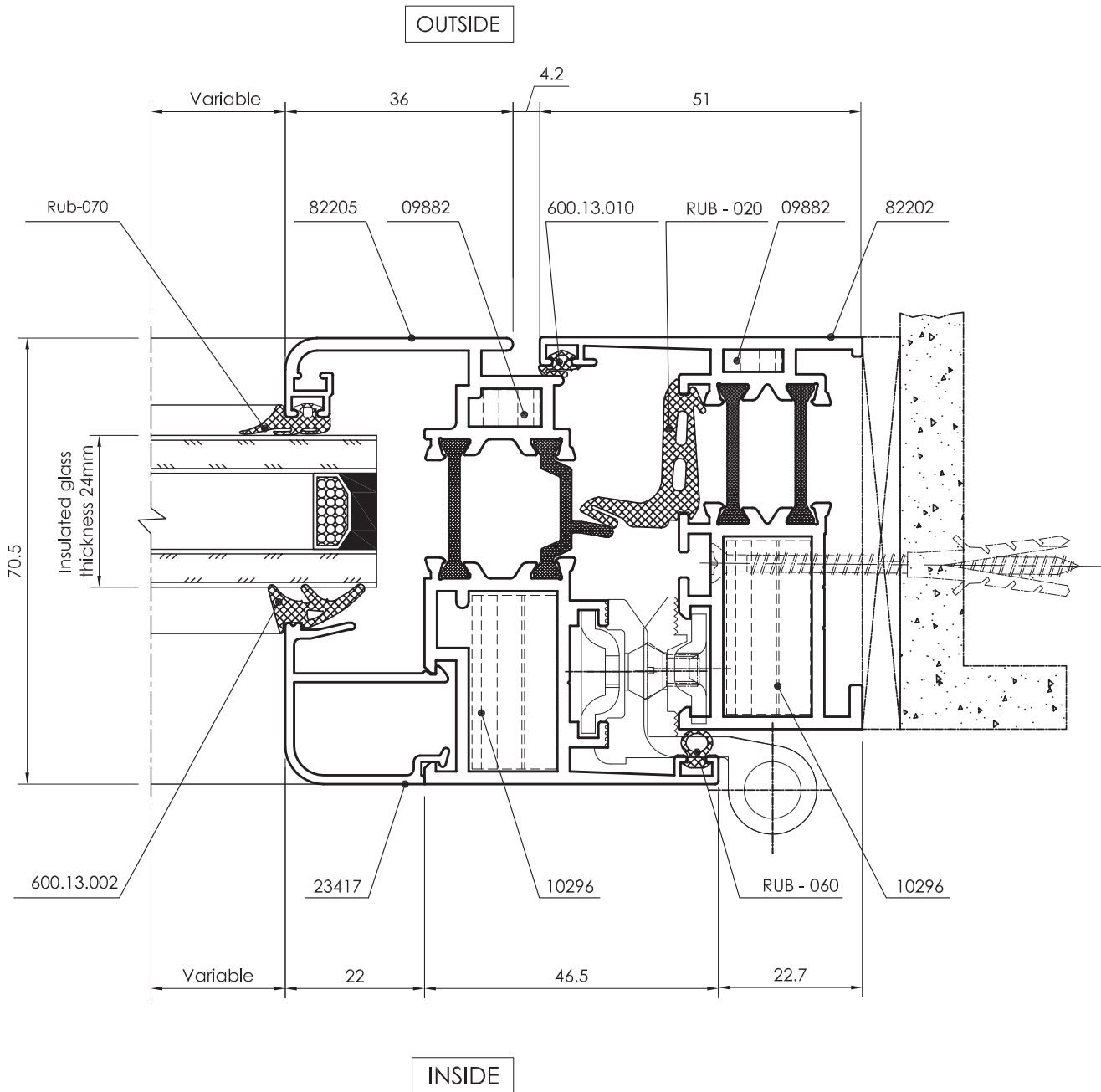
Detail - D



Casement Window Series 62mm - Inward Opening
Detail - E

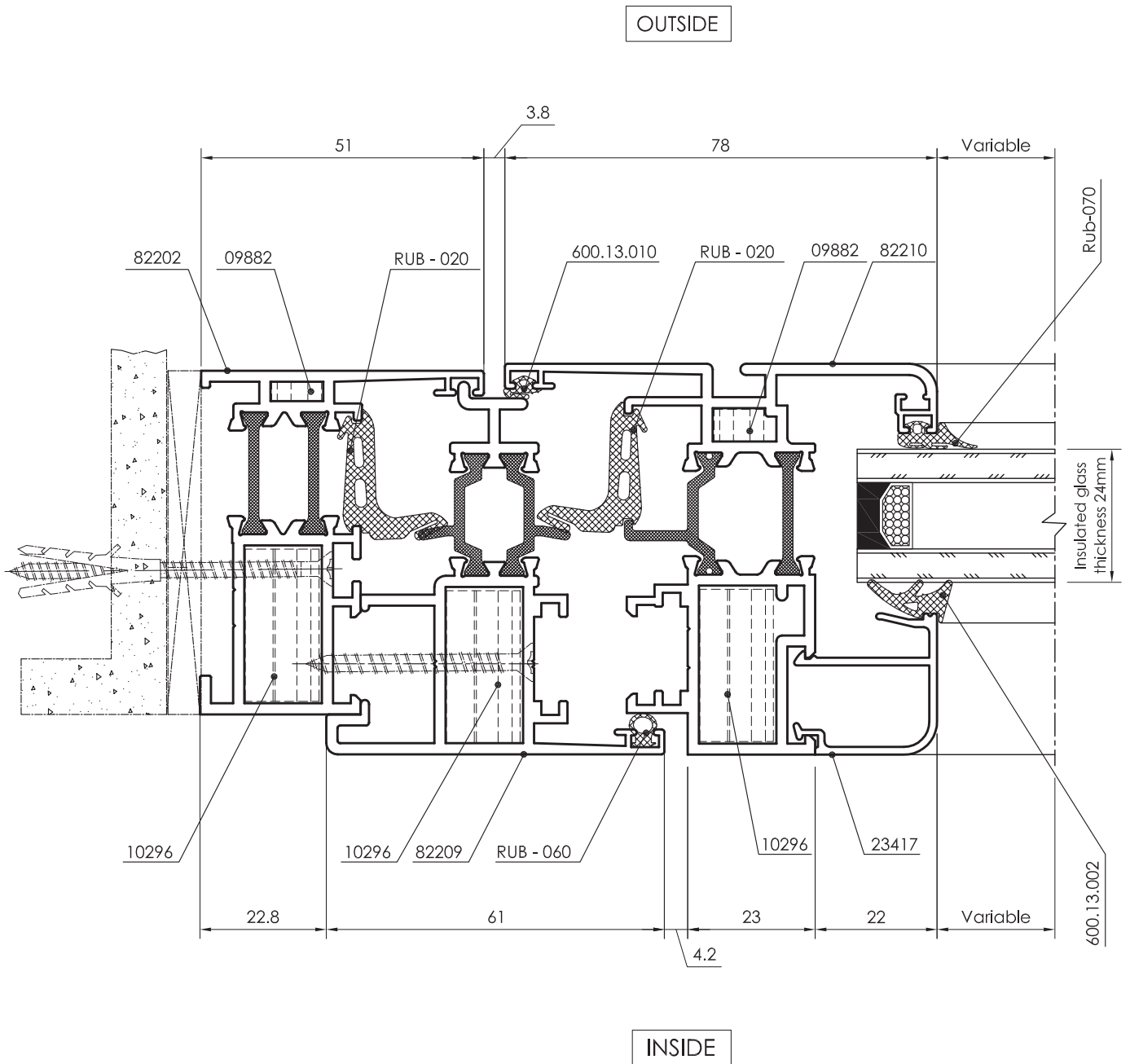


Casement Window Series 62mm - Inward Opening
Detail - F



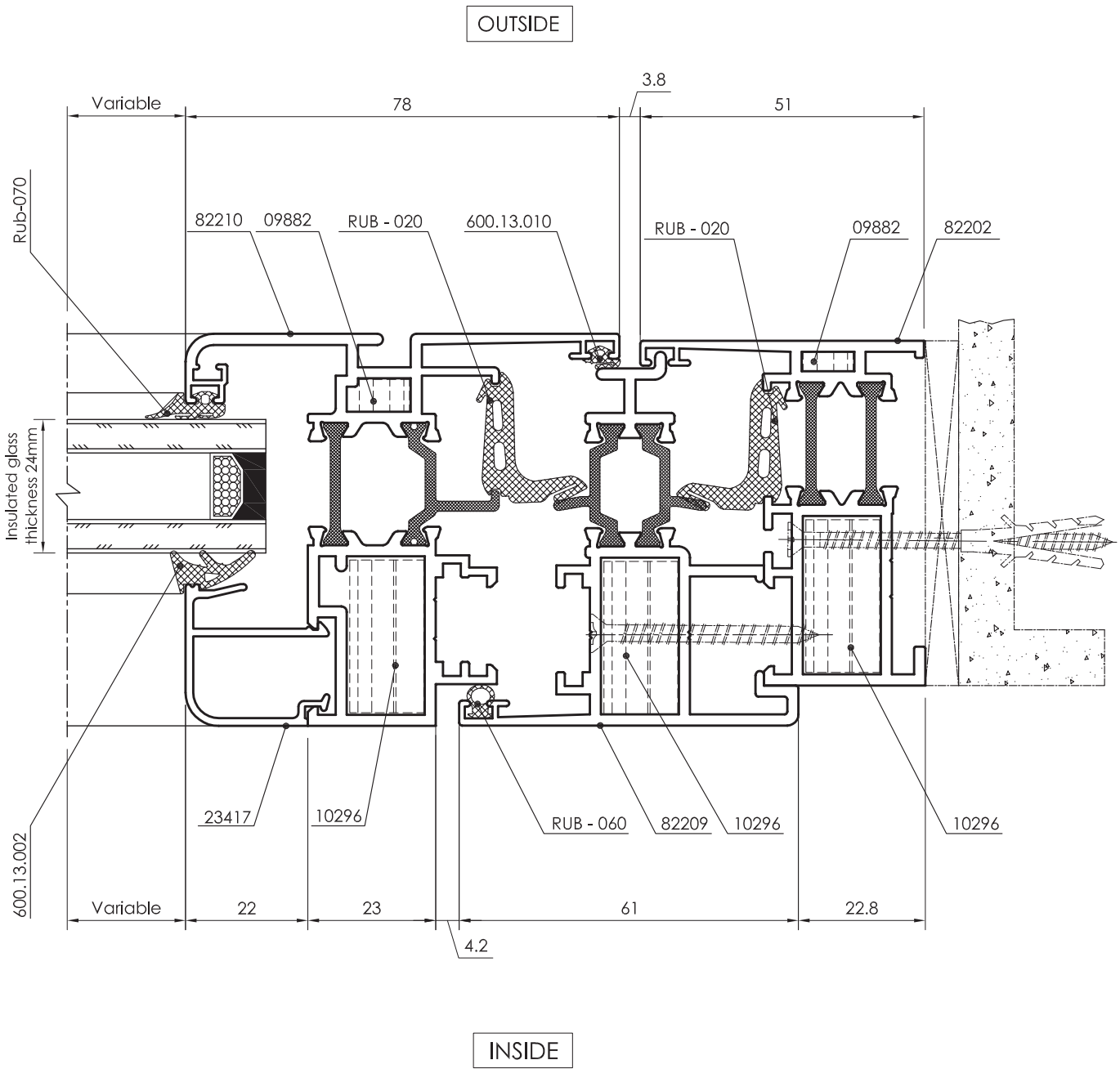
Casement Window Series 62mm - Outward Opening

Detail - R



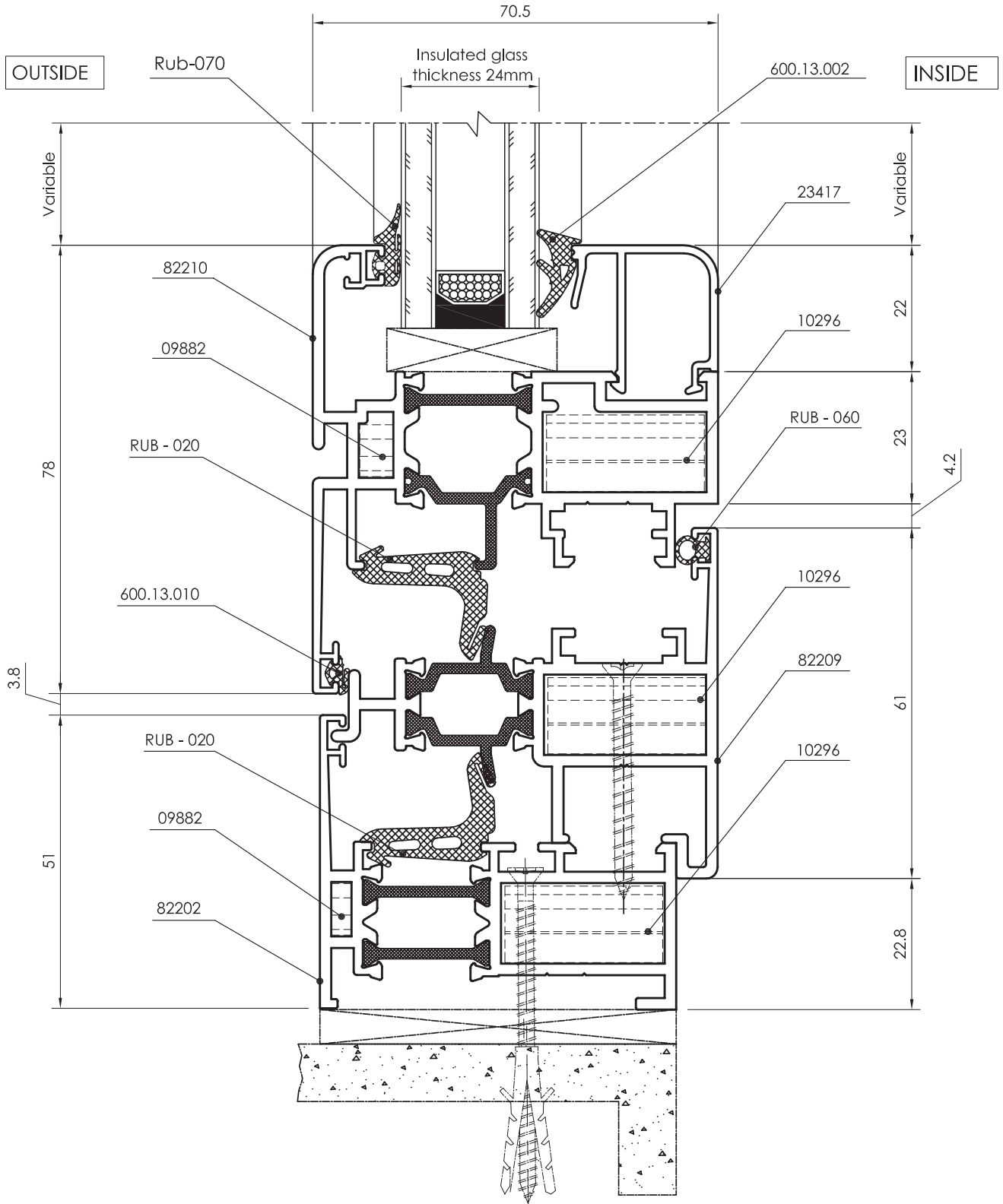
Casement Window Series 62mm - Outward Opening

Detail - R1



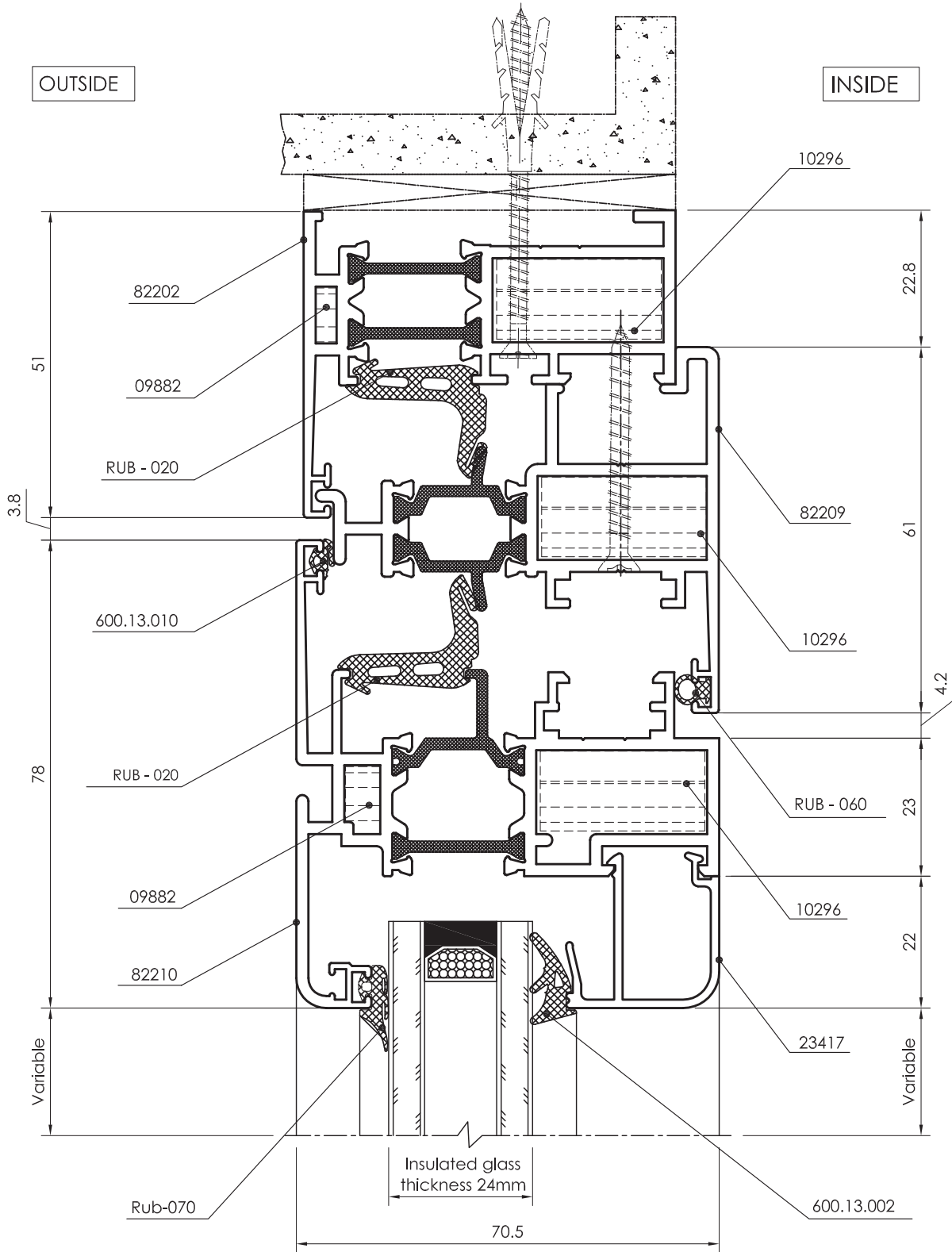
Casement Window Series 62mm - Outward Opening

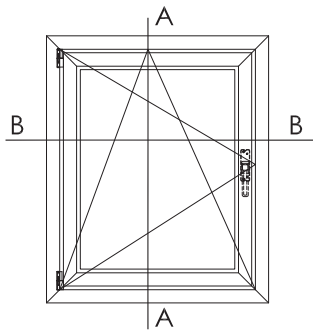
Detail - R2



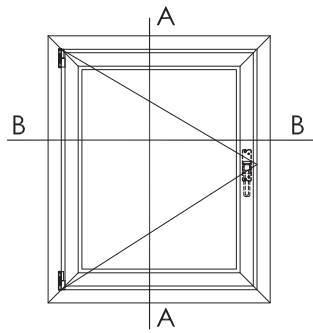
Casement Window Series 62mm - Outward Opening

Detail - R3





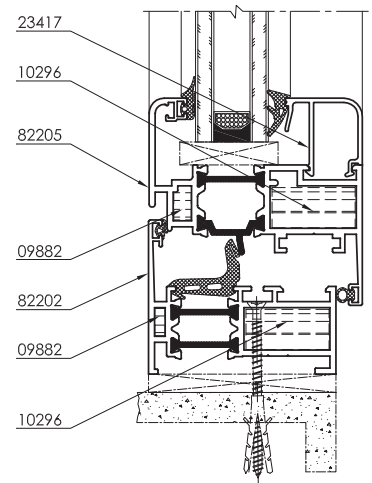
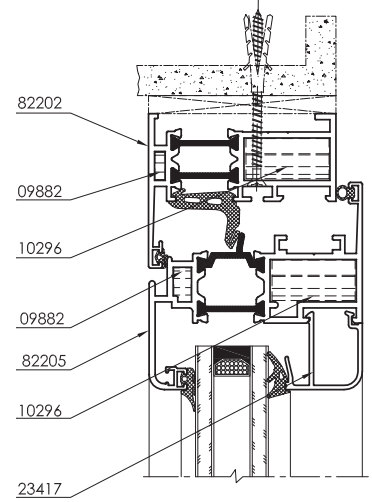
SINGLE LEAF
TURN & TILT WINDOW
(INWARD OPENING)



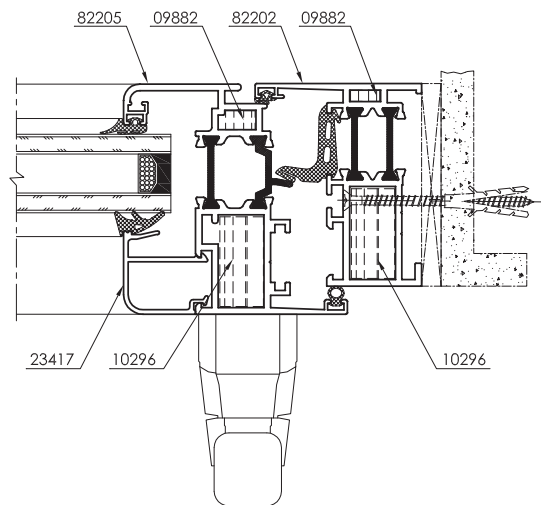
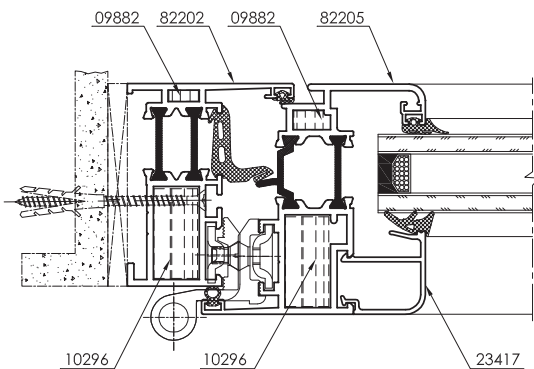
SINGLE LEAF
CASEMENT WINDOW
(INWARD OPENING)

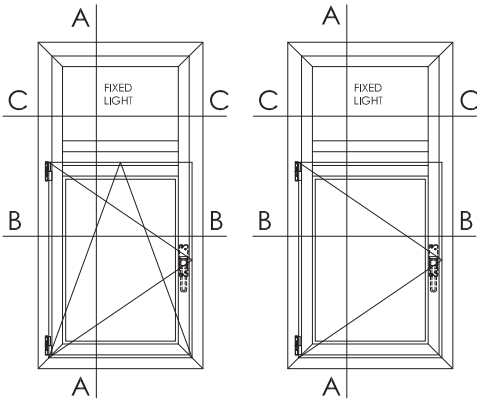
Profiles		
Description	Shape	Section No.
Frame		82202
Sash		82205
Glazing bead		23417
Corner cleat		10296
Corner cleat		09882

DETAIL : A-A



DETAIL : B-B



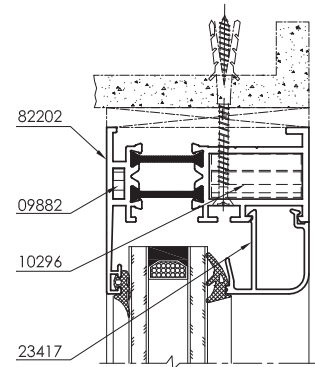


SINGLE LEAF
TURN & TILT WINDOW
WITH TOP FIXED PANEL
(INWARD OPENING)

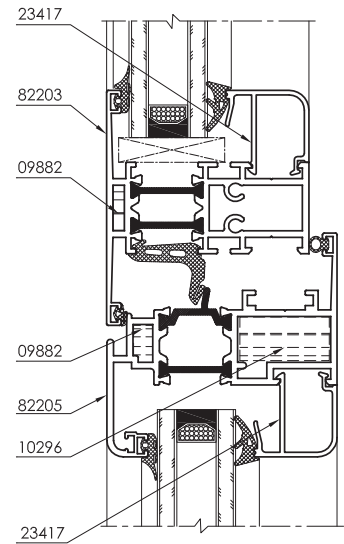
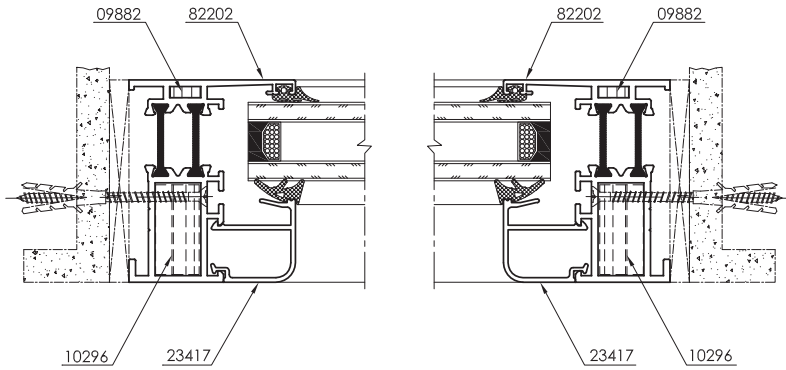
SINGLE LEAF
CASEMENT WINDOW
WITH TOP FIXED PANEL
(INWARD OPENING)

Profiles		
Description	Shape	Section No.
Frame		82202
Sash		82205
T-Section		82203
Glazing bead		23417
Corner cleat		10296
Corner cleat		09882

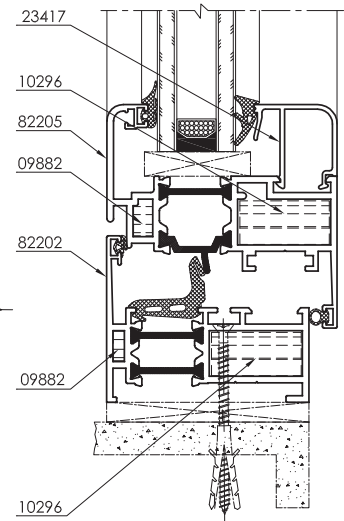
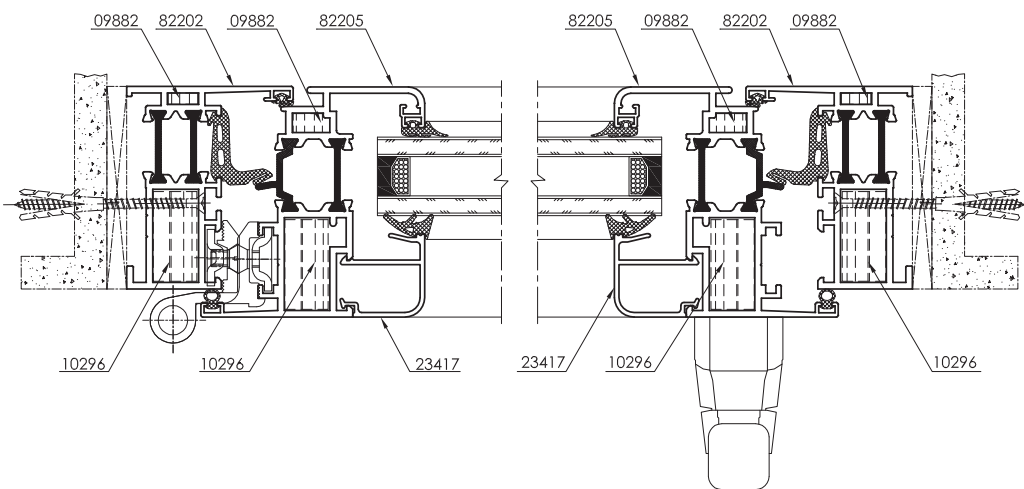
DETAIL : A-A

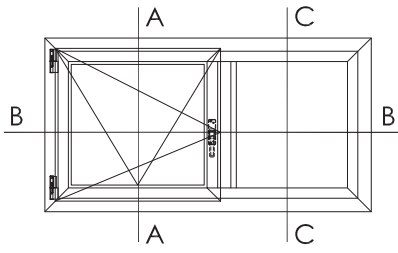


DETAIL : C-C

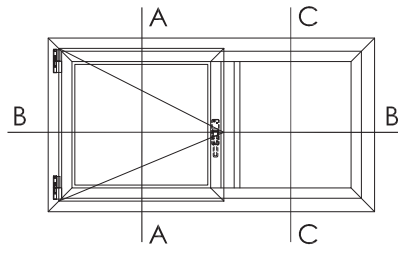


DETAIL : B-B



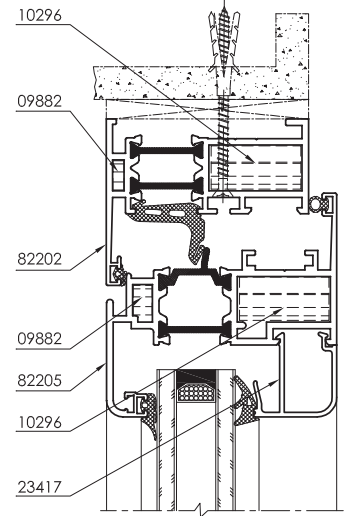


SINGLE LEAF TURN & TILT WINDOW
WITH SIDE FIXED PANEL
(INWARD OPENING)

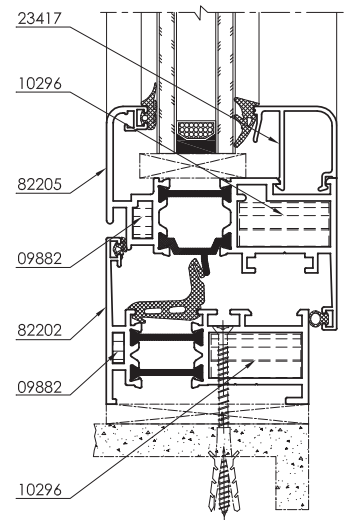
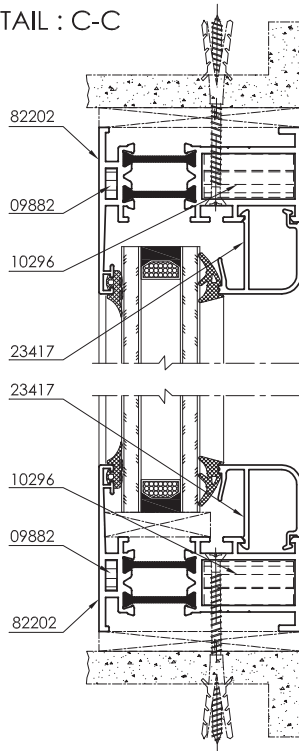


SINGLE LEAF CASEMENT WINDOW
WITH SIDE FIXED PANEL
(INWARD OPENING)

DETAIL : A-A

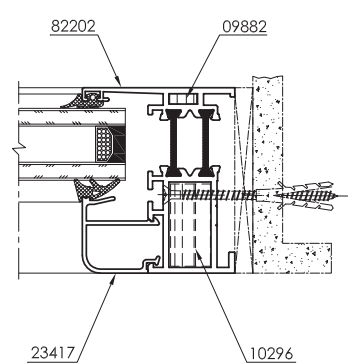
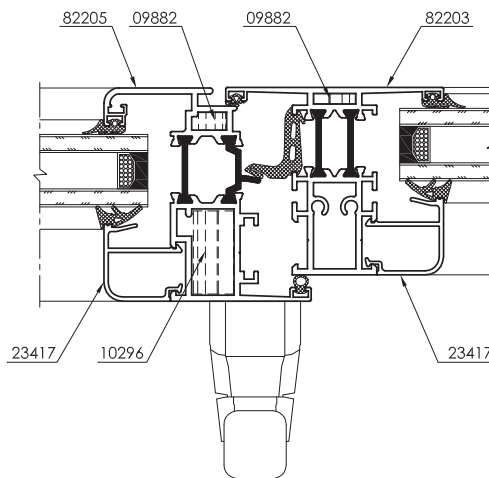
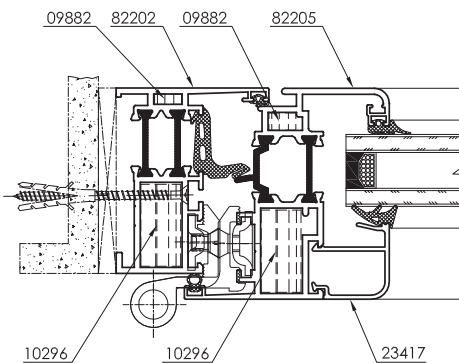


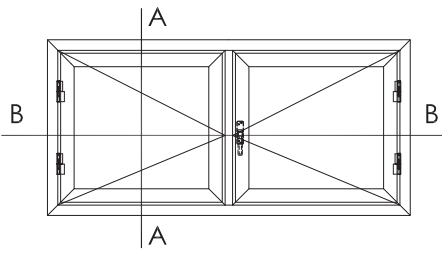
DETAIL : C-C



Profiles		
Description	Shape	Section No.
Frame		82202
Sash		82205
T- Section		82203
Glazing bead		23417
Corner cleat		10296
Corner cleat		09882

DETAIL : B-B

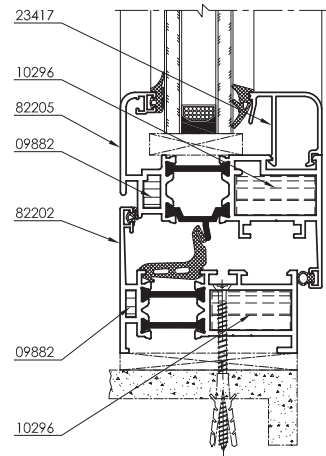
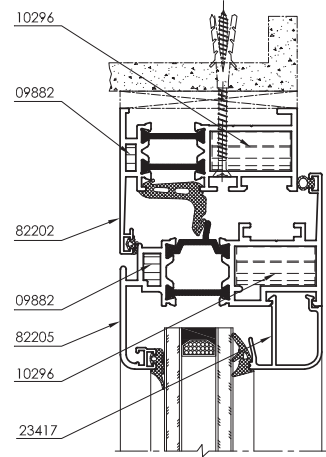




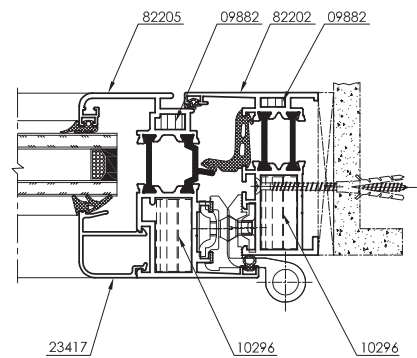
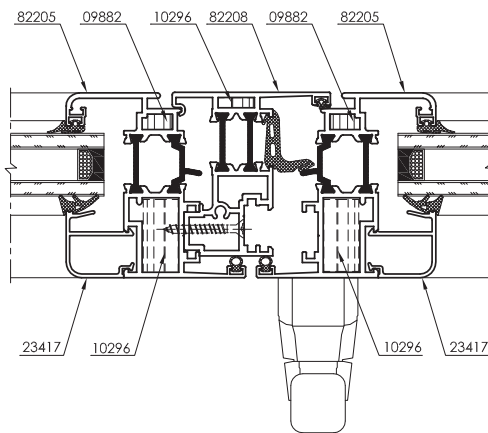
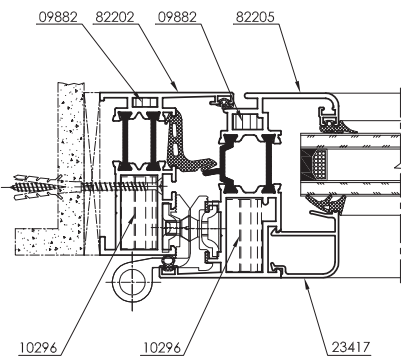
DOUBLE LEAF CASEMENT WINDOW
(INWARD OPENING)

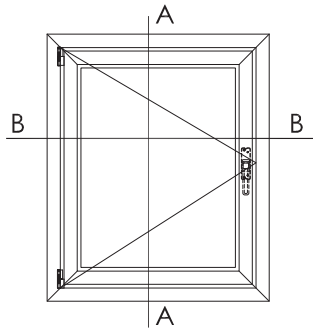
Profiles		
Description	Shape	Section No.
Frame		82202
Sash		82205
Adaptor		82208
Glazing bead		23417
Corner cleat		10296
Corner cleat		09882

DETAIL : A-A



DETAIL : B-B

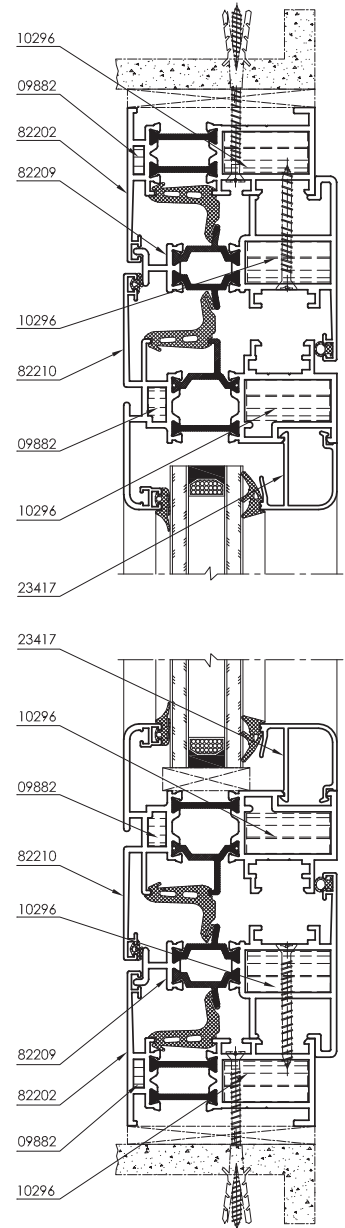




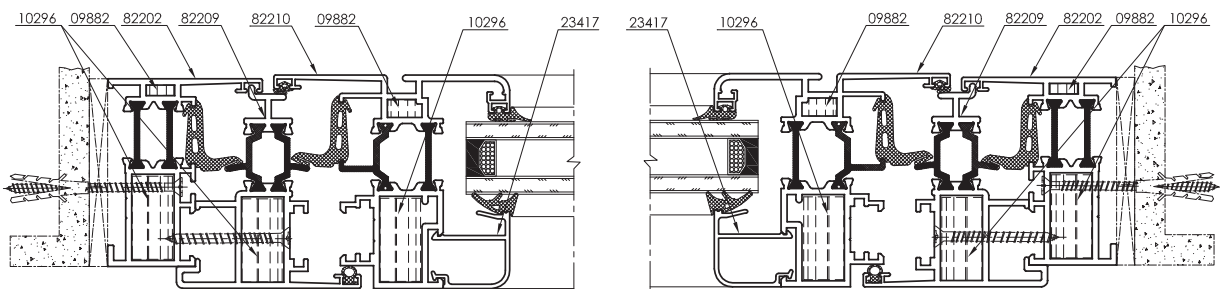
SINGLE LEAF
CASEMENT WINDOW
(OUTWARD OPENING)

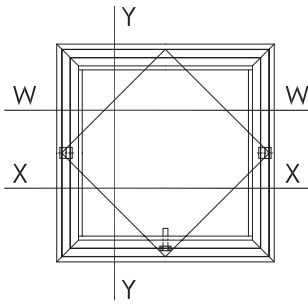
Profiles		
Description	Shape	Section No.
Frame		82202
Sash - Outward Opening		82210
Adaptor		82209
Glazing bead		23417
Corner cleat		10296
Corner cleat		09882

DETAIL : A-A



DETAIL : B-B

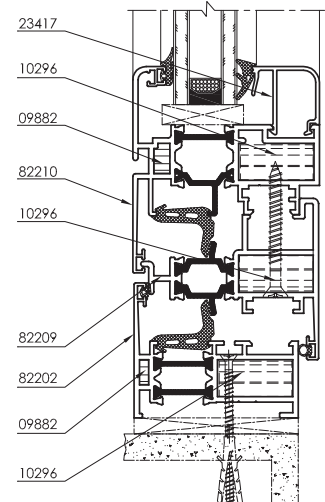
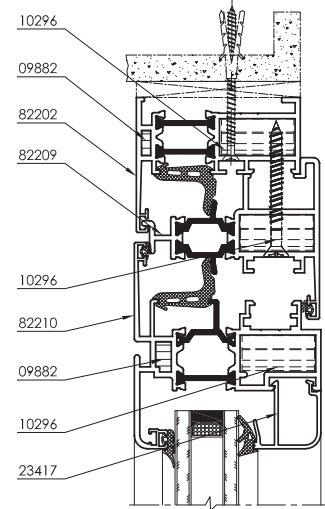




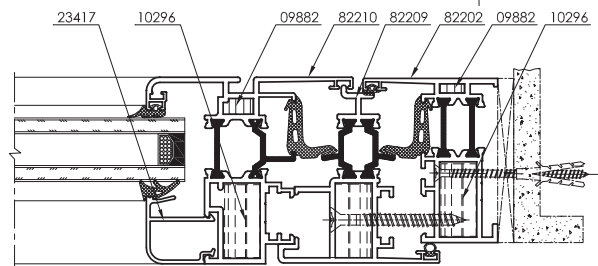
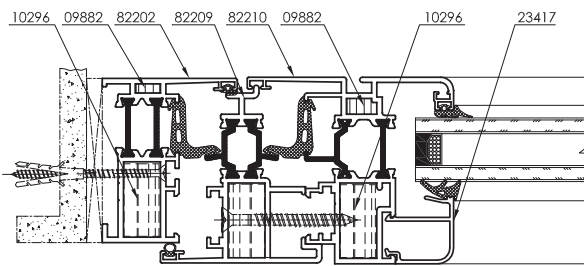
PIVOT WINDOW

Profiles		
Description	Shape	Section No.
Frame		82202
Sash - Outward Opening		82210
Adaptor		82209
Glazing bead		23417
Corner cleat		10296
Corner cleat		09882

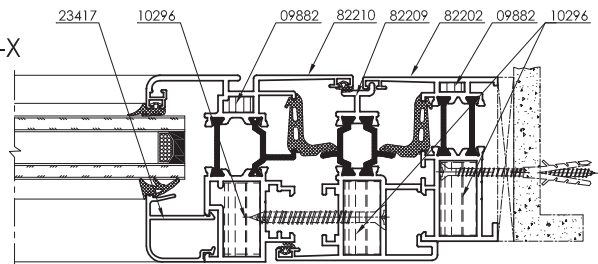
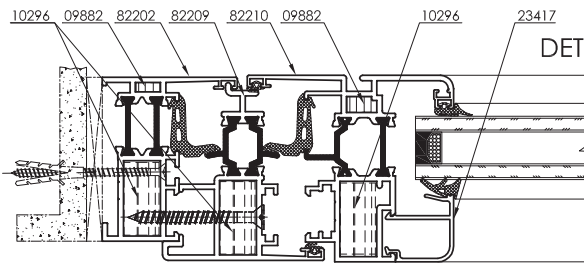
DETAIL : Y-Y



DETAIL : W-W

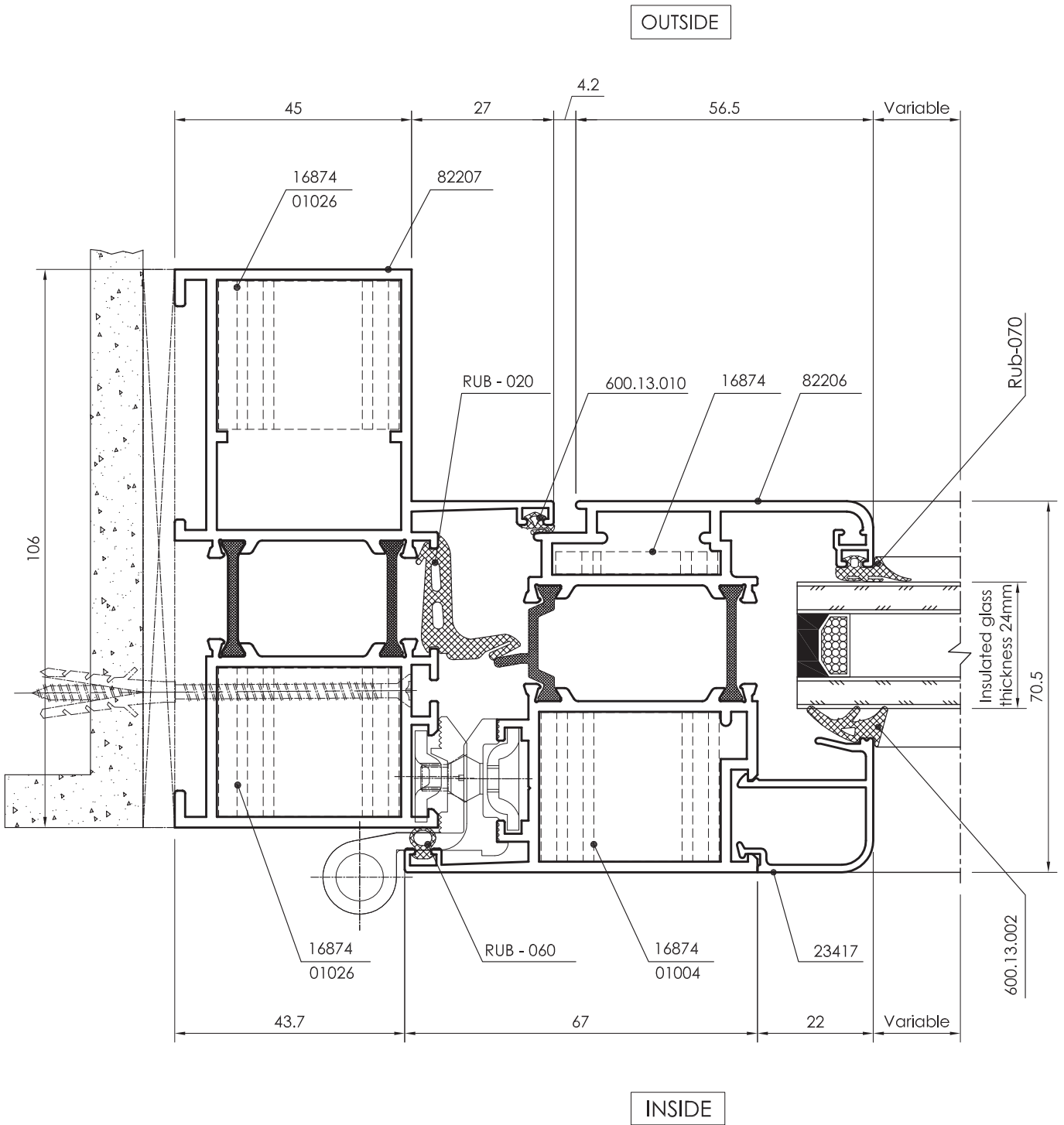


DETAIL : X-X

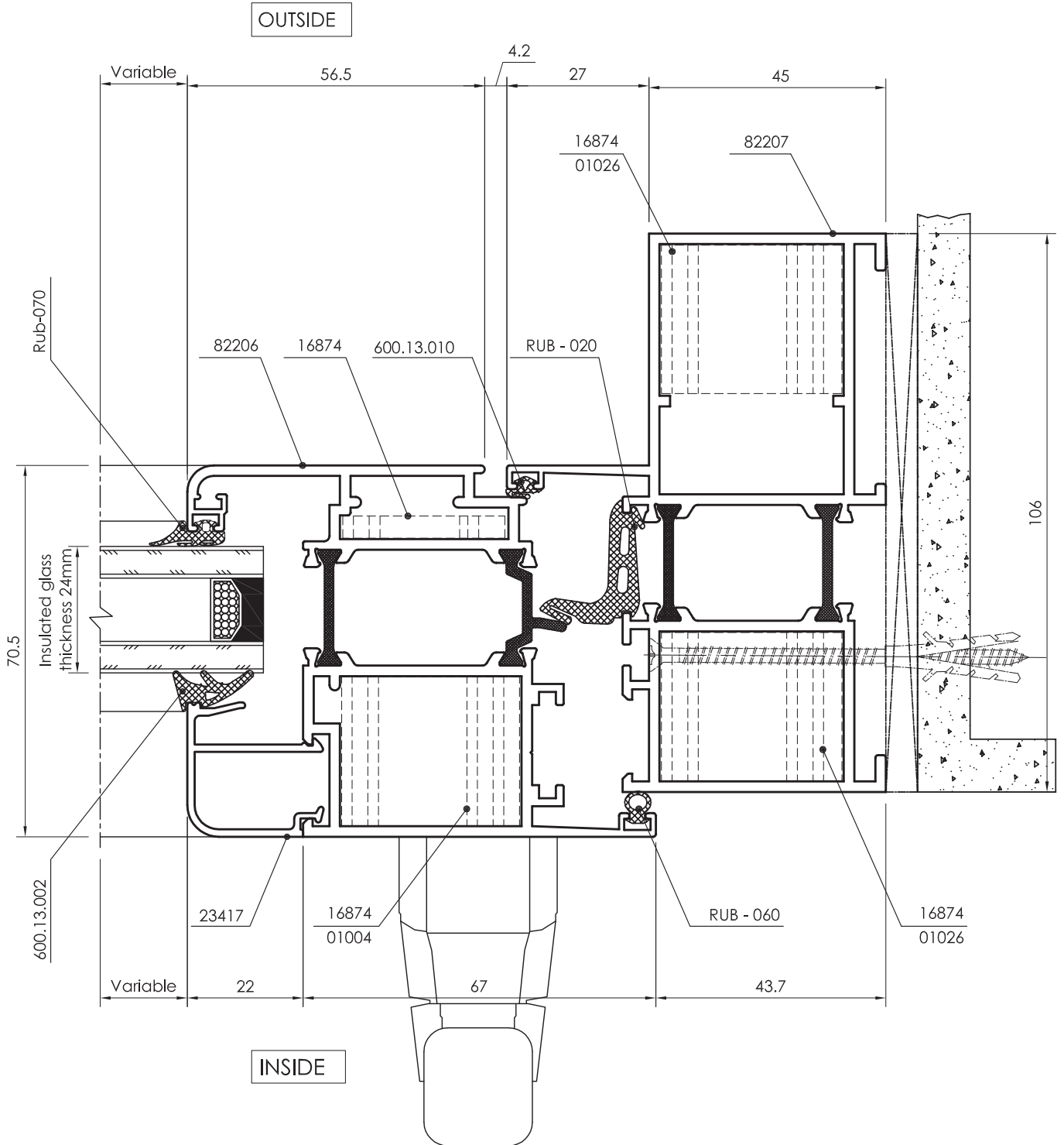


Hinged Door Series 62mm - Inward Opening

Detail - M

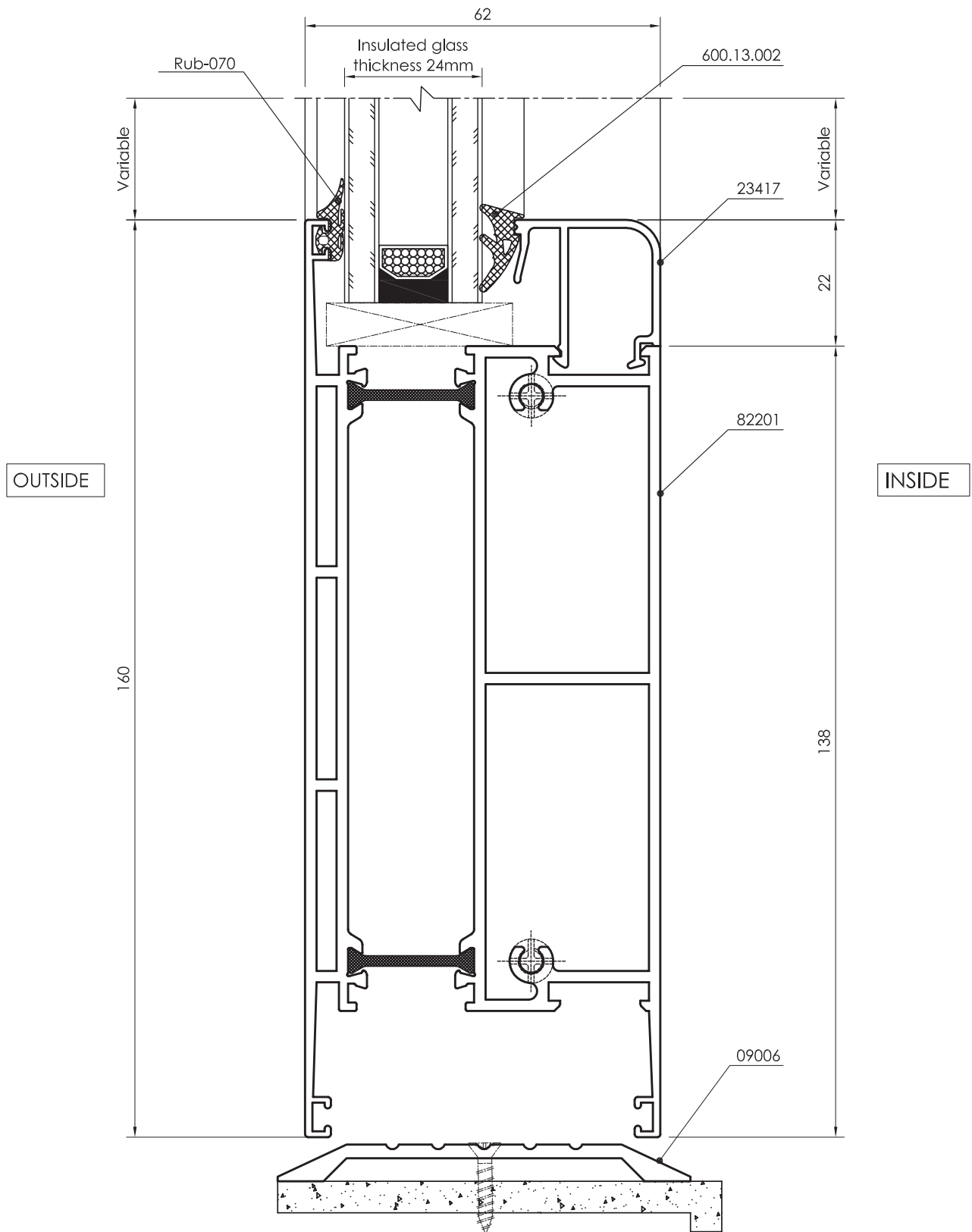


Hinged Door Series 62mm - Inward Opening
Detail - M1



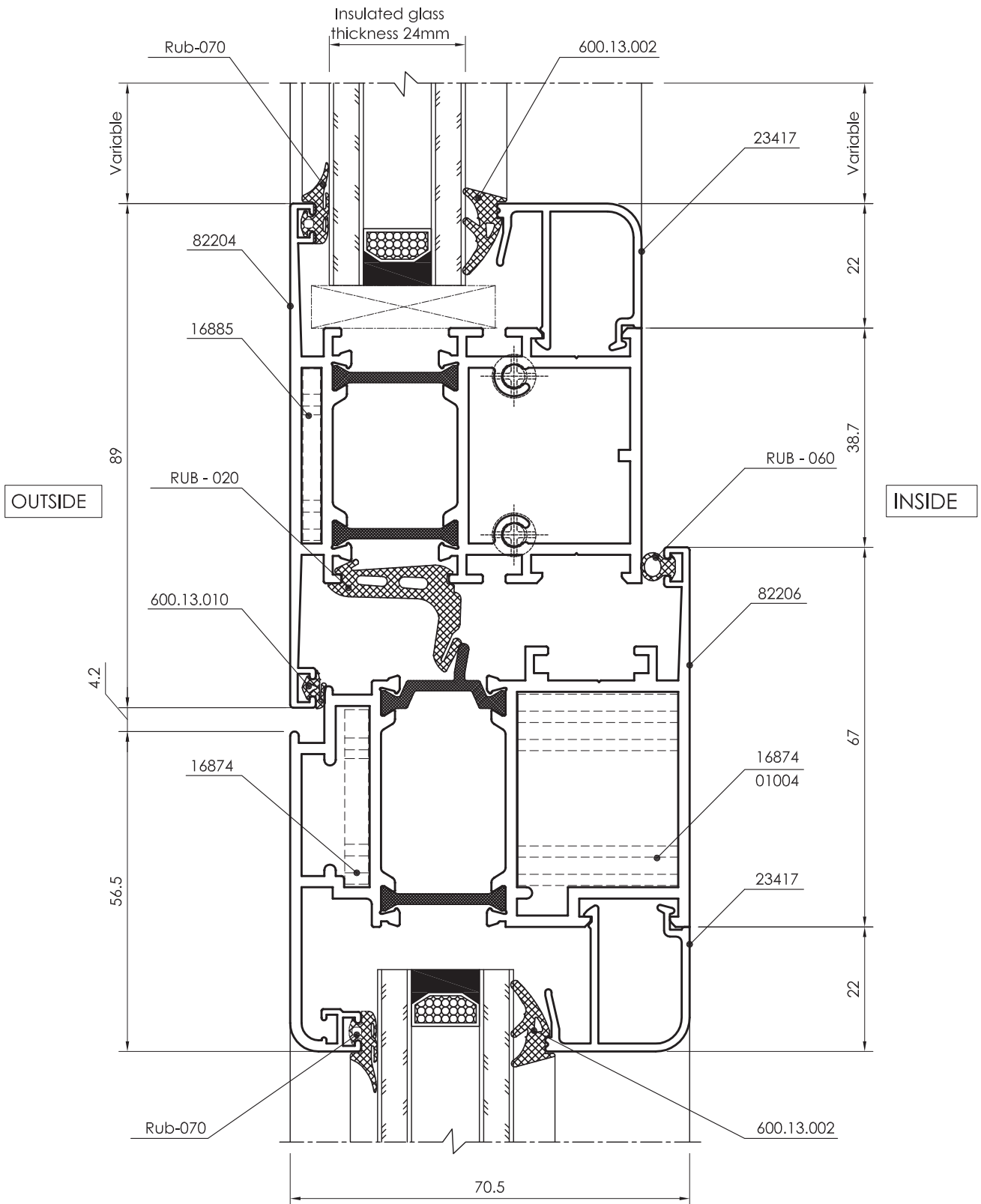
Hinged Door Series 62mm - Inward Opening

Detail - M2



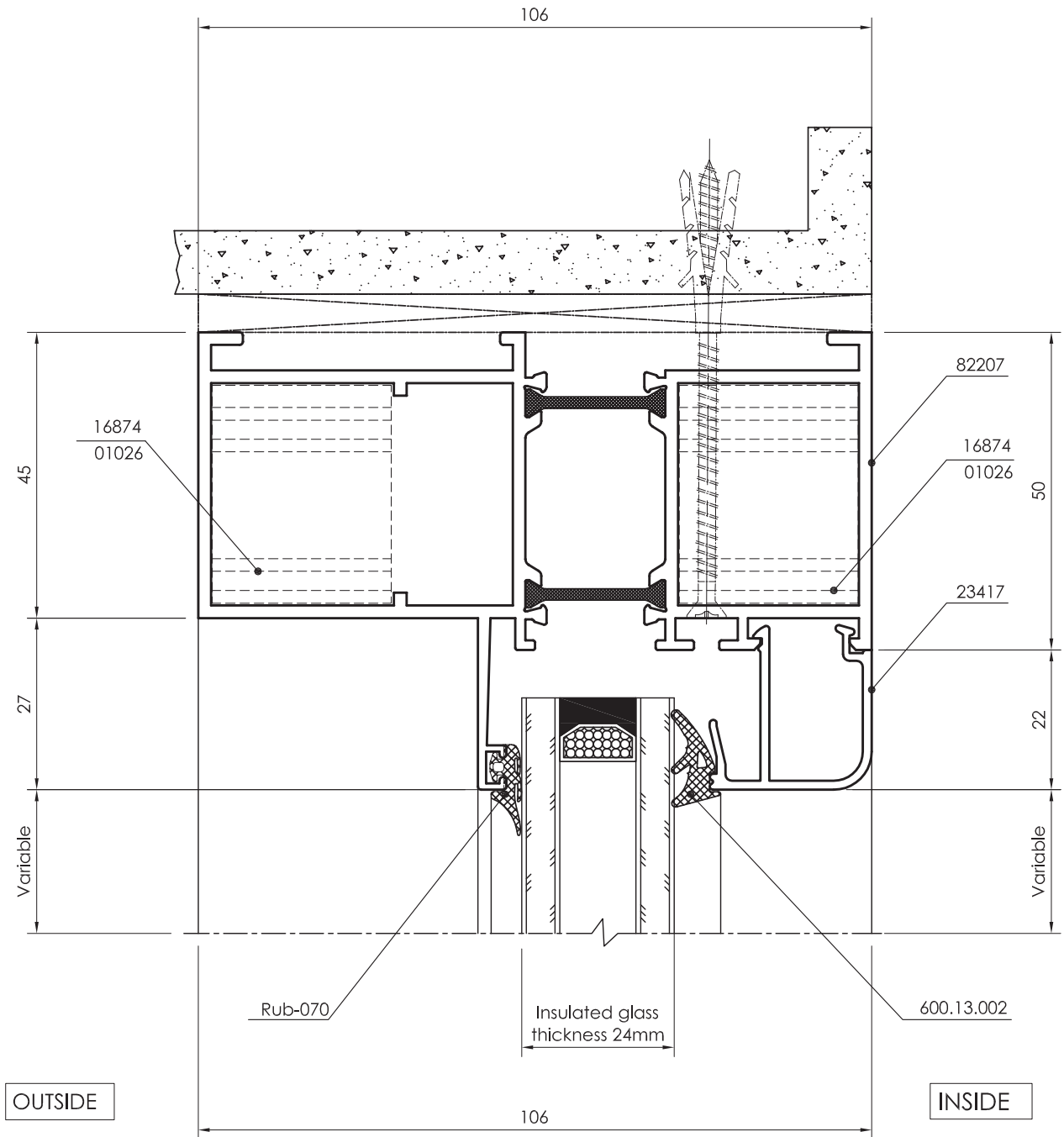
Hinged Door Series 62mm - Inward Opening

Detail - M3

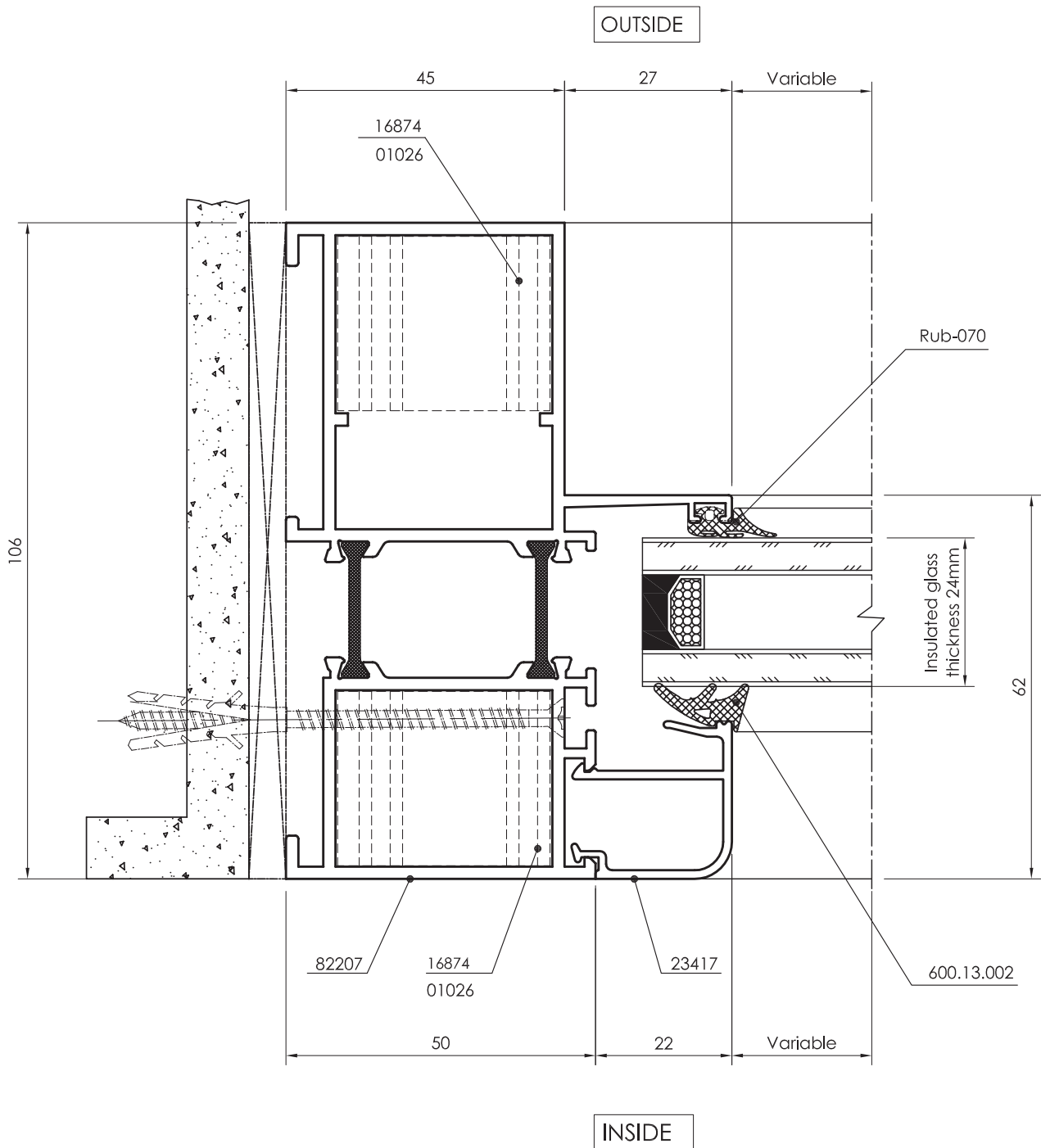


Hinged Door Series 62mm - Top Fixed

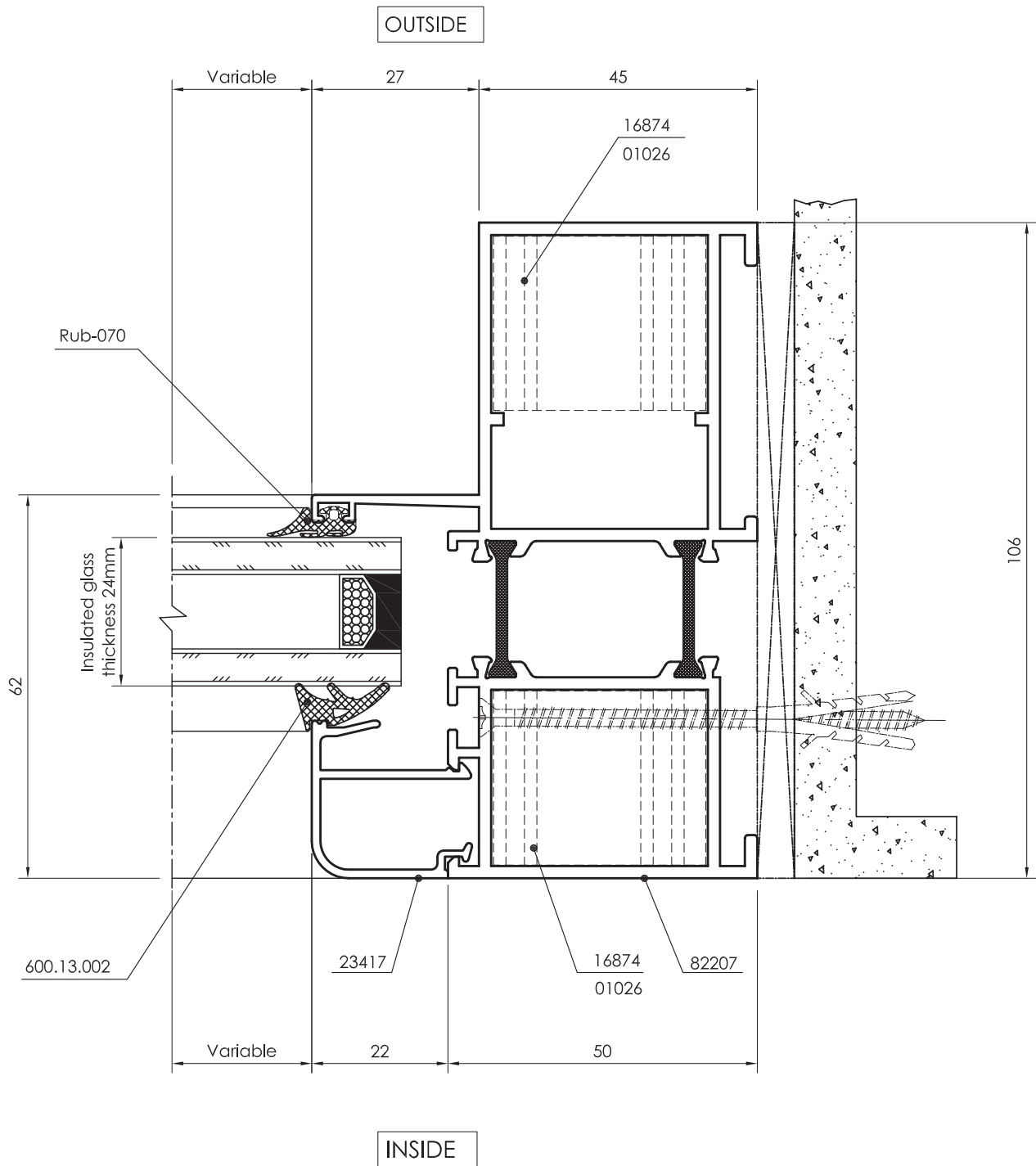
Detail - M4



Hinged Door Series 62mm - Right Side Fixed
 Detail - M5

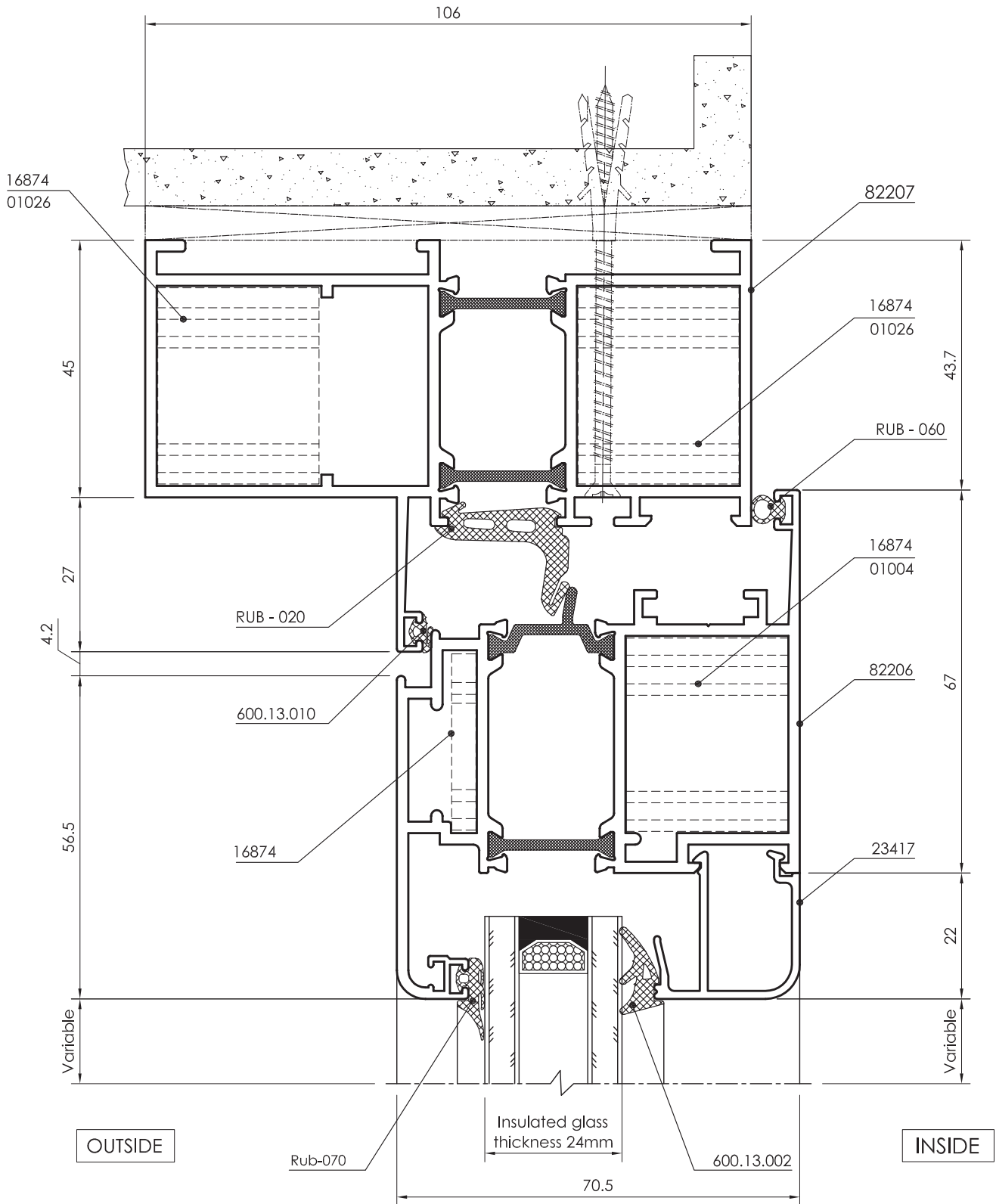


Hinged Door Series 62mm - Left Side Fixed
Detail - M6



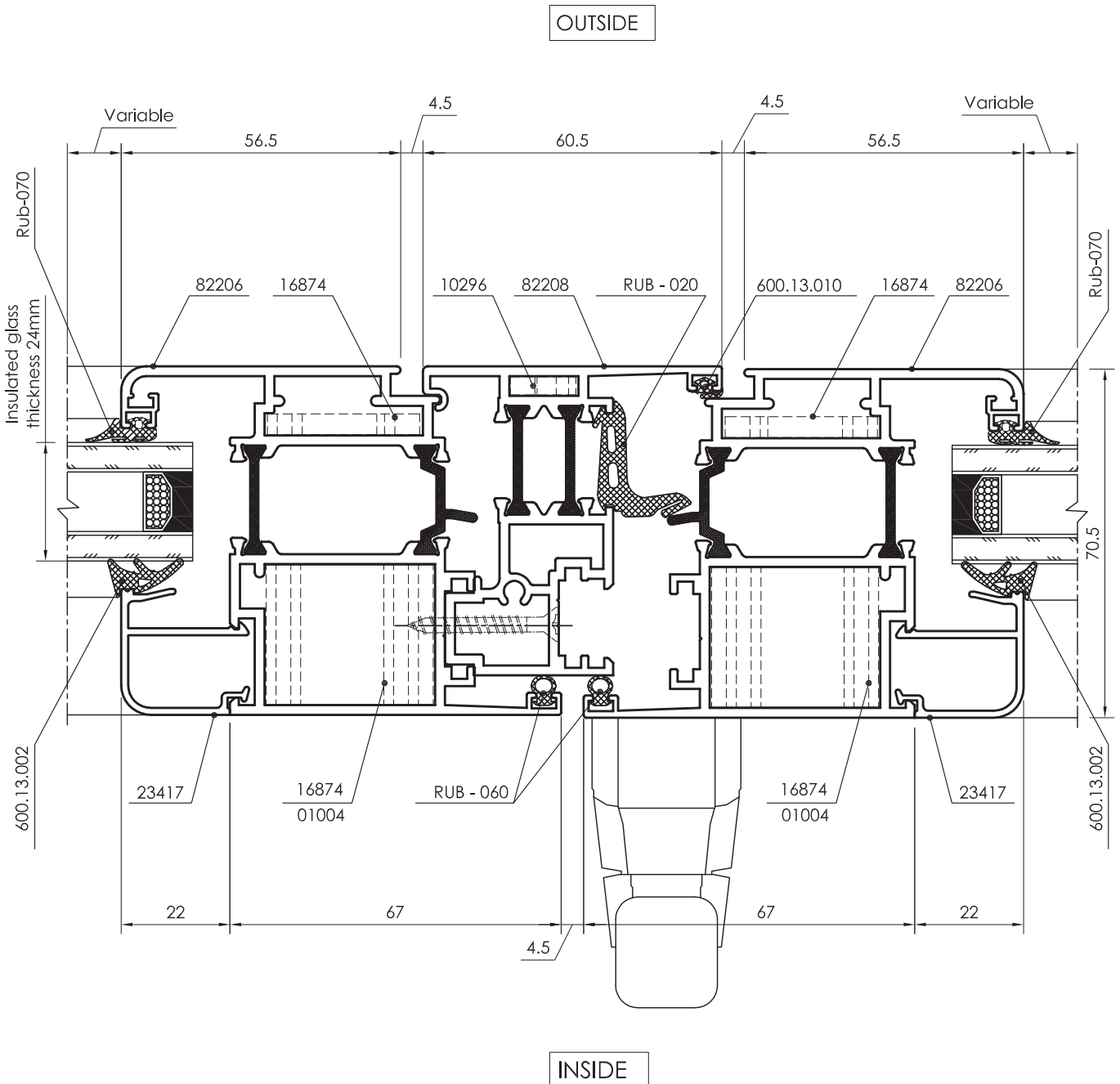
Hinged Door Series 62mm - Inward Opening

Detail - N

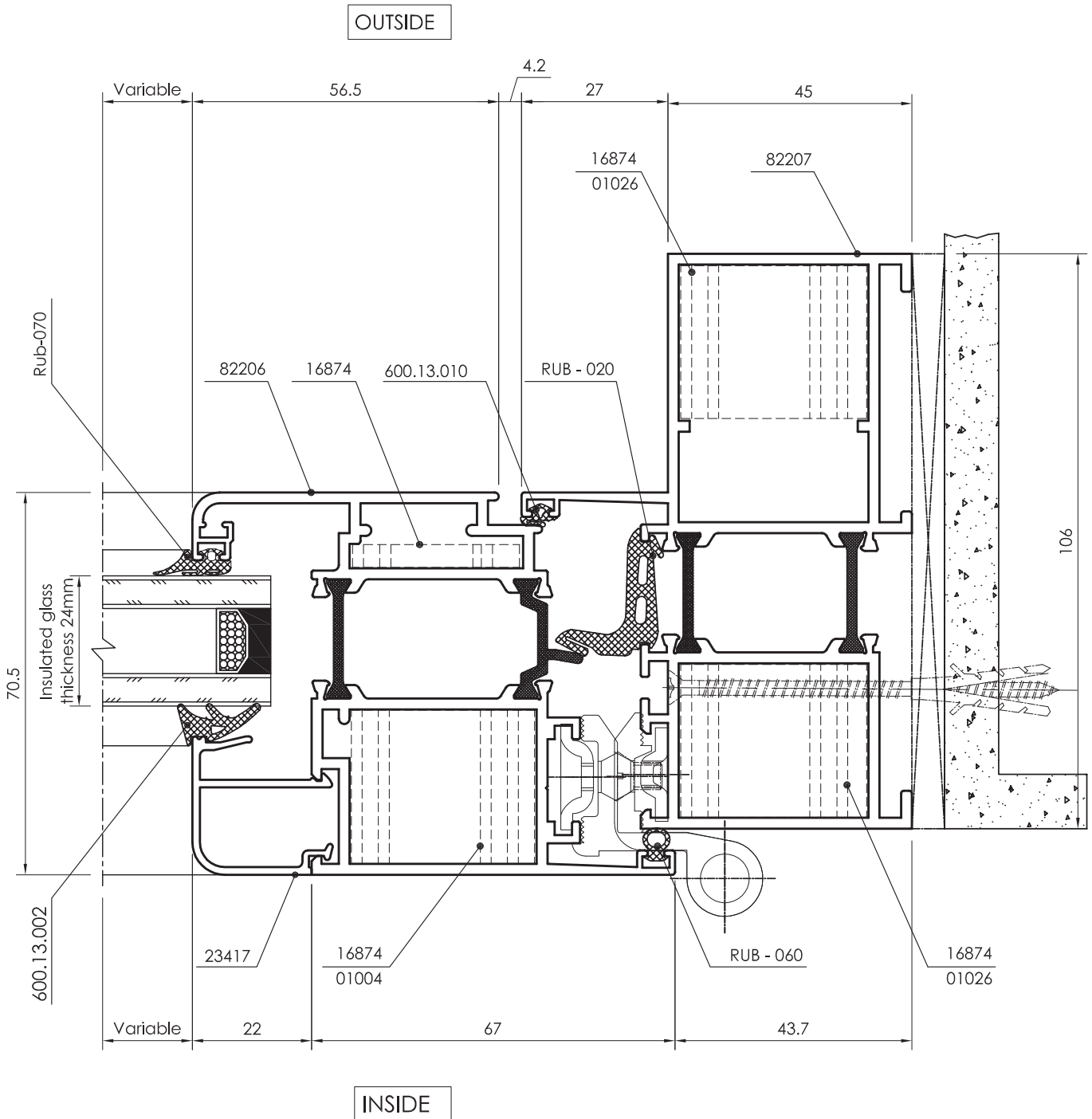


Hinged Door Series 62mm - Inward Opening

Detail - O

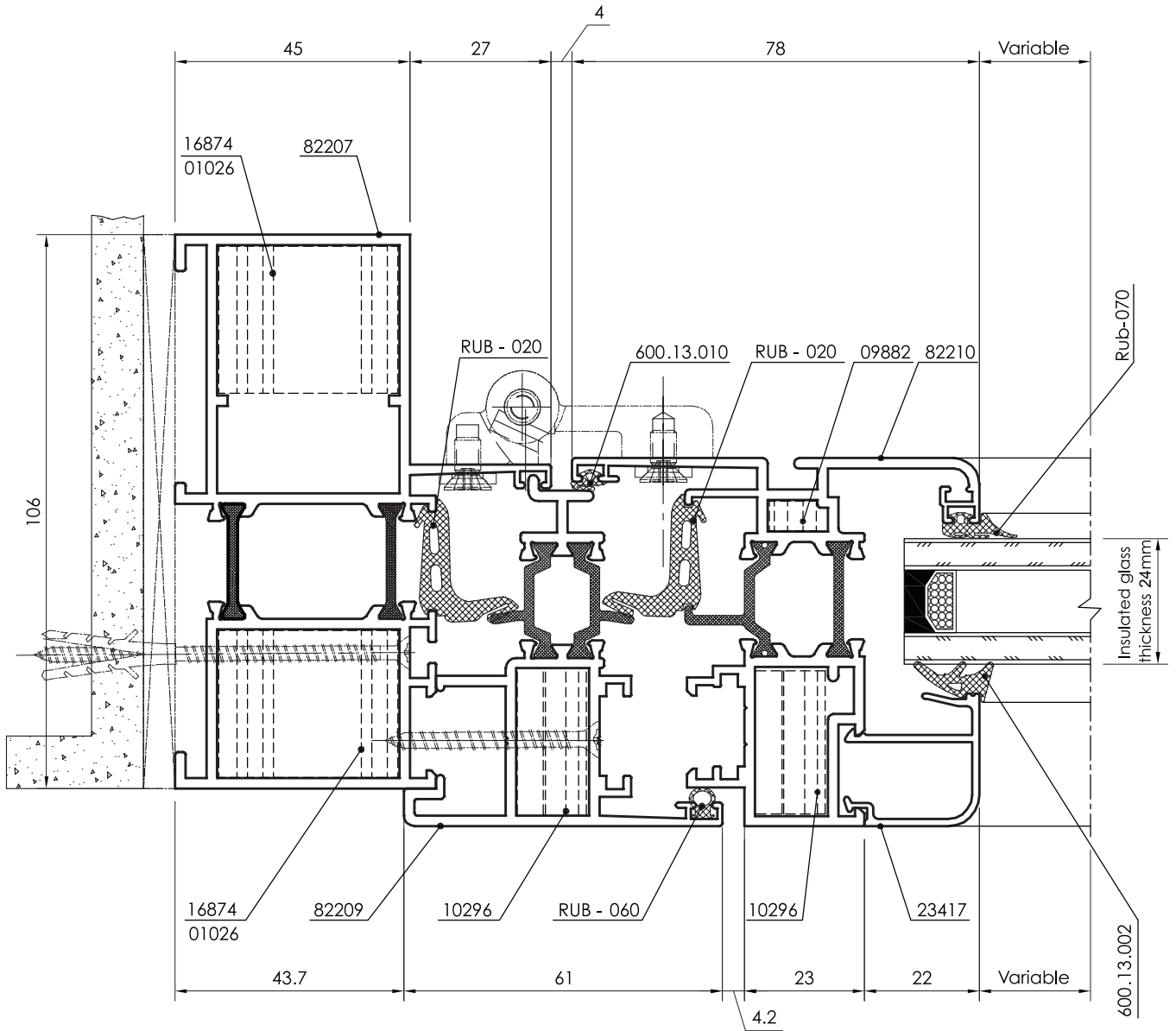


Hinged Door Series 62mm - Inward Opening
Detail - P

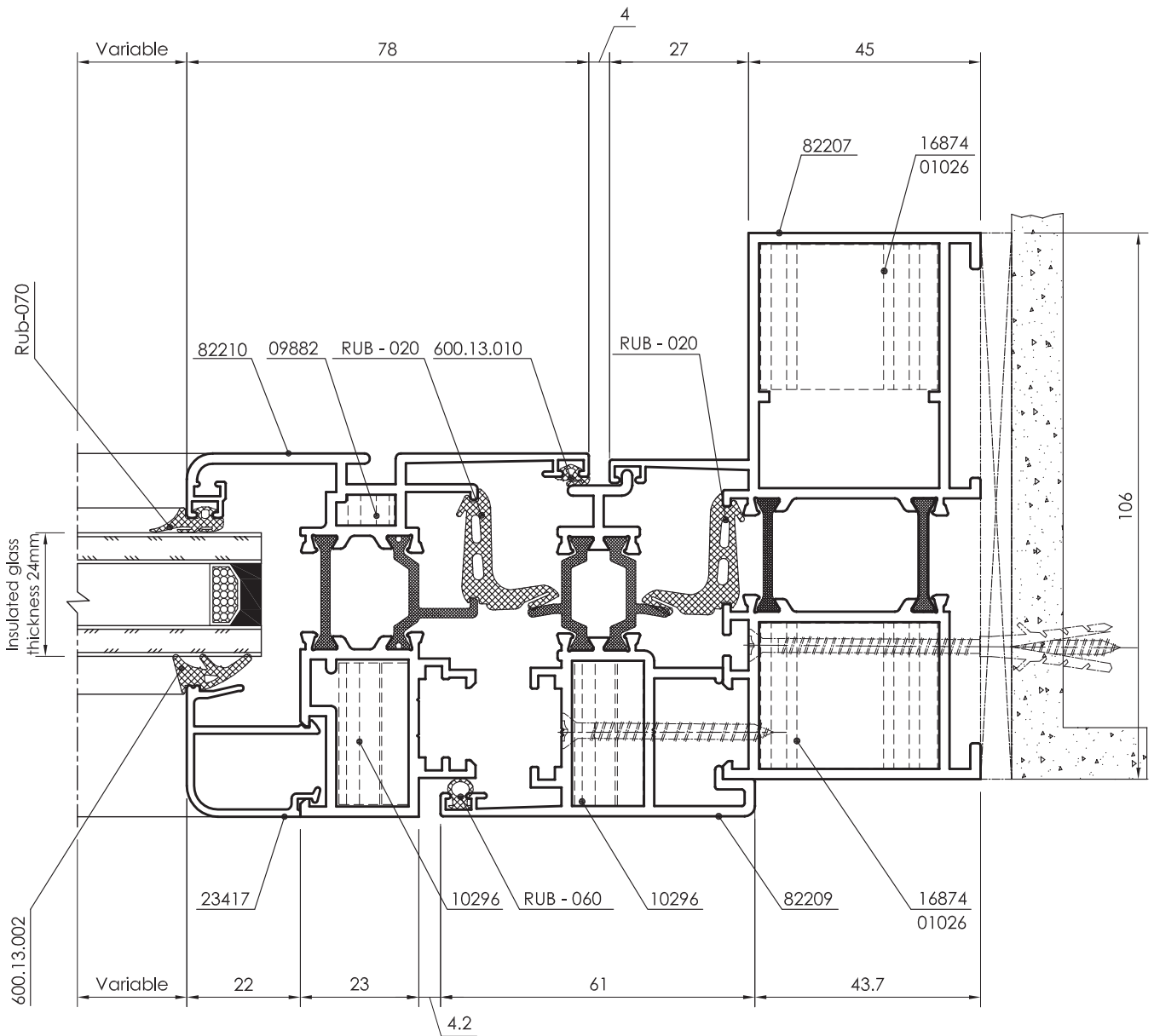


Hinged Door Series 62mm - Outward Opening

Detail - Z

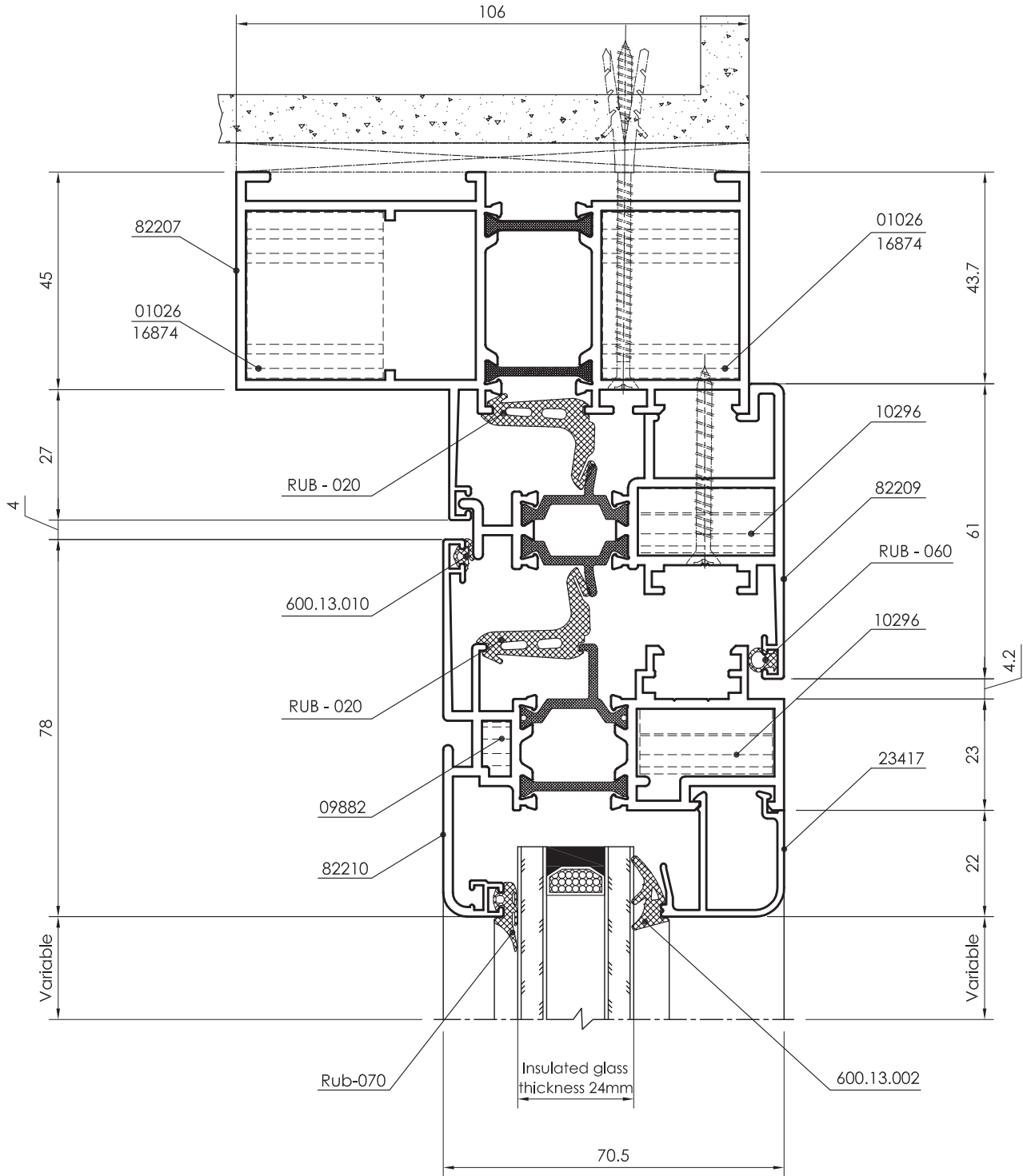


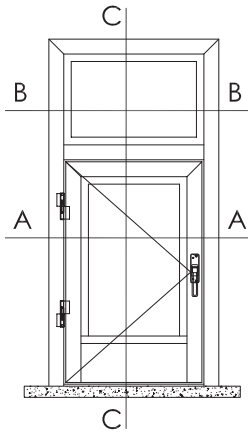
Hinged Door Series 62mm - Outward Opening
Detail - Z1



Hinged Door Series 62mm - Outward Opening

Detail - Z2

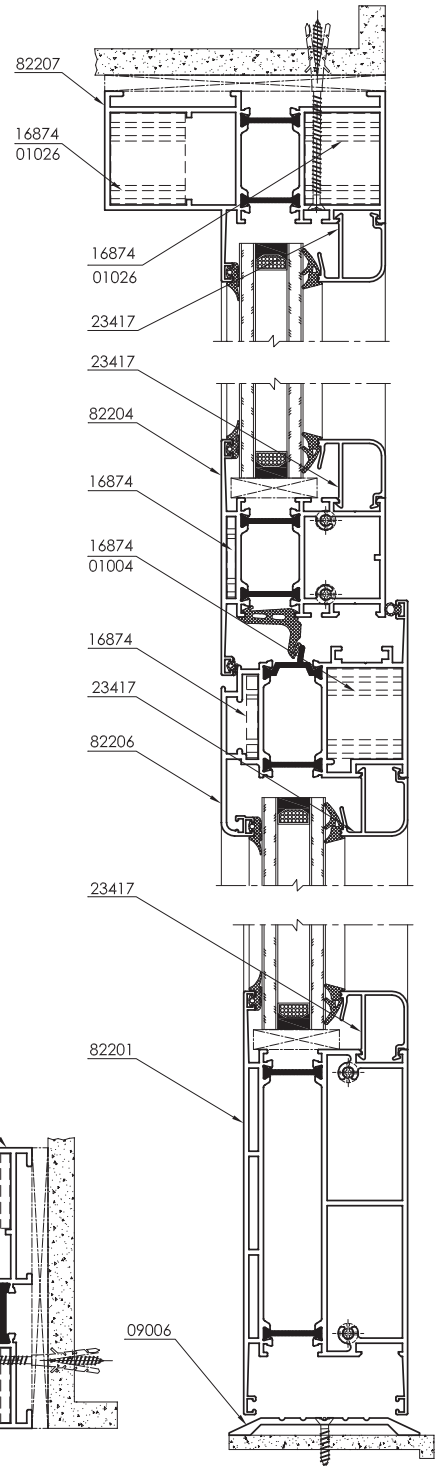




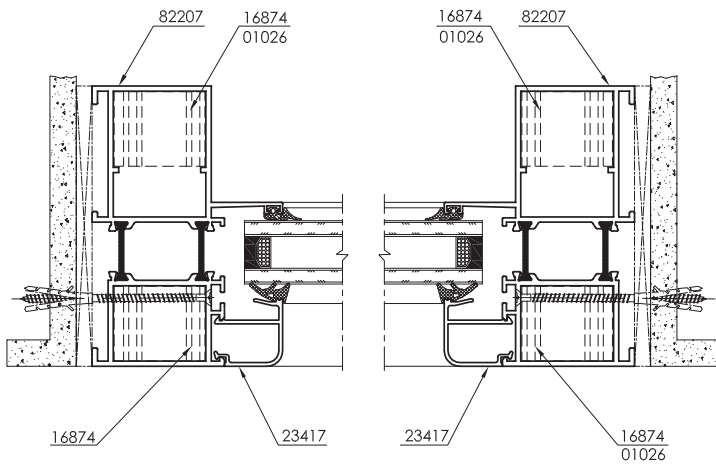
SINGLE LEAF HINGED DOOR
WITH TOP FIXED PANEL
(INWARD OPENING)

Profiles		
Description	Shape	Section No.
Frame		82207
Bottom Frame		82201
Sash		82206
T- Section		82204
Glazing bead		23417
Corner cleat		16874
Angle 40°40*3.5		01026
Angle 40°40*3.0		01004
Threshold		09006

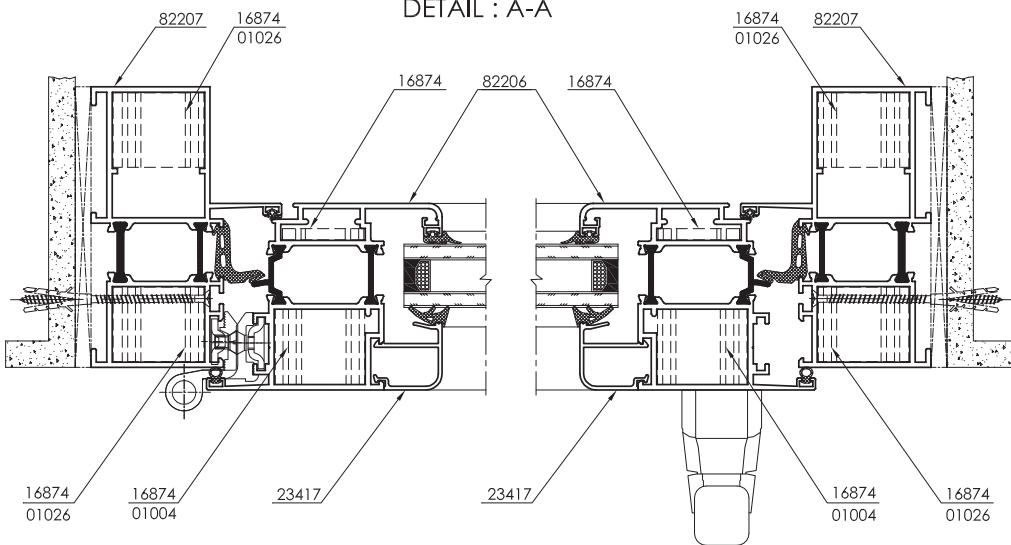
DETAIL : C-C

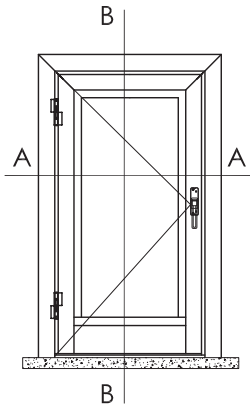


DETAIL : B-B



DETAIL : A-A

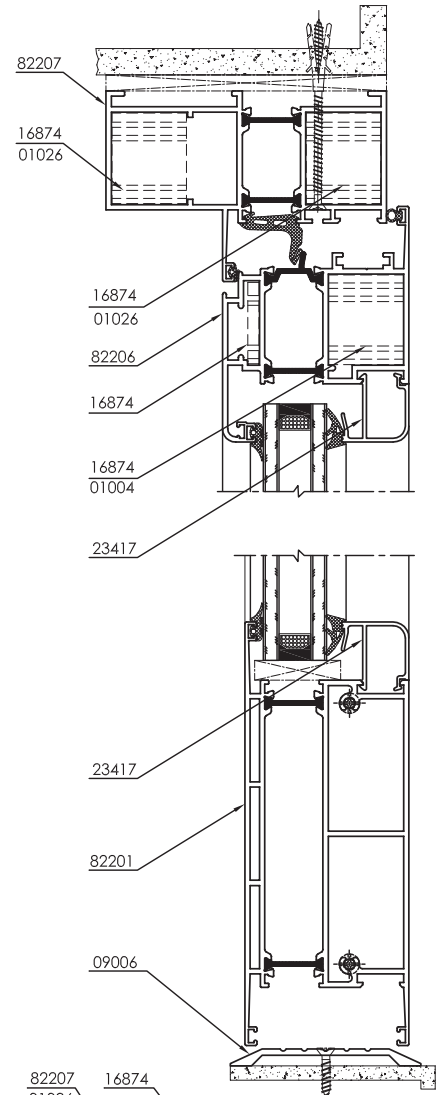




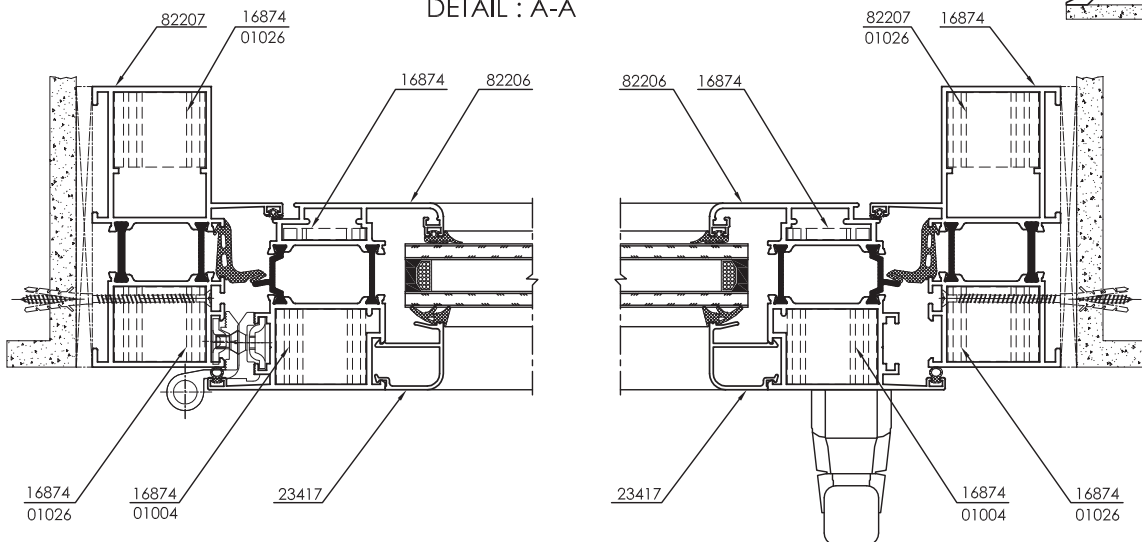
SINGLE LEAF HINGED DOOR
(INWARD OPENING)

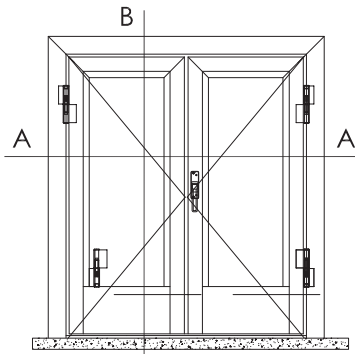
Profiles		
Description	Shape	Section No.
Frame		82207
Bottom Frame		82201
Sash		82206
Glazing bead		23417
Corner cleat		16874
Angle 40*40*3.5		01026
Angle 40*40*3.0		01004
Treshold		09006

DETAIL : B-B



DETAIL : A-A

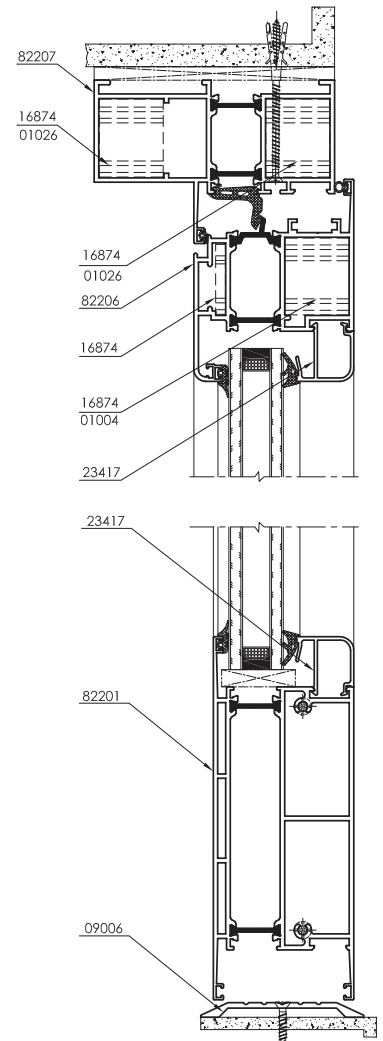




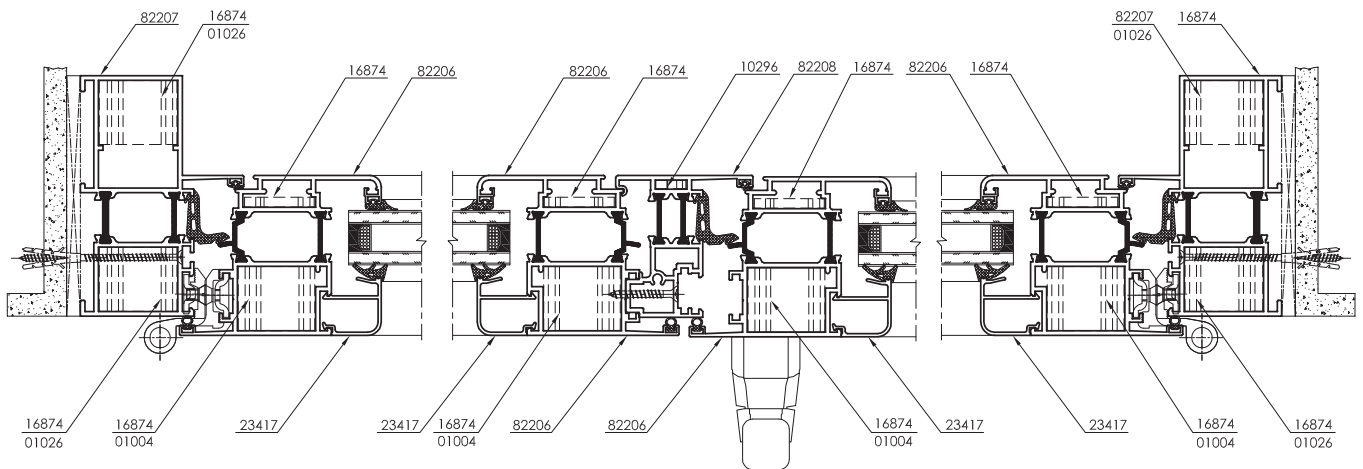
DOUBLE LEAF HINGED DOOR
(INWARD OPENING)

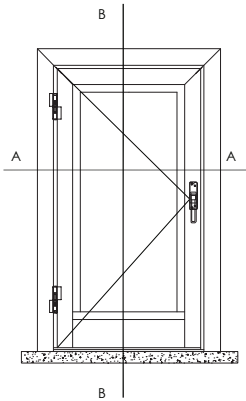
Profiles		
Description	Shape	Section No.
Frame		82207
Bottom Frame		82201
Sash		82206
Adaptor		82208
Glazing bead		23417
Corner cleat		16874
Corner cleat		10296
Angle 40*40*3.5		01026
Angle 40*40*3.0		01004
Threshold		09006

DETAIL : B-B



DETAIL : A-A

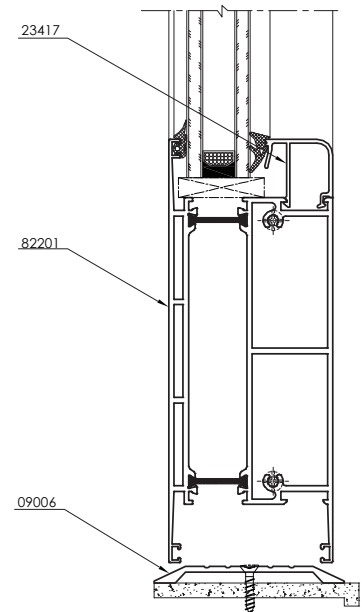
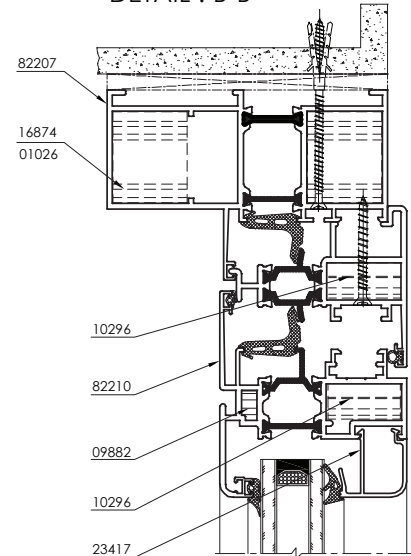




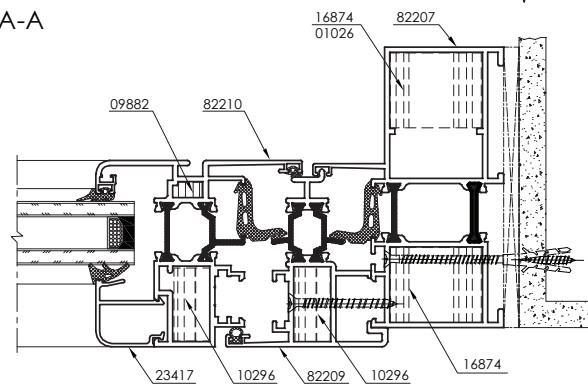
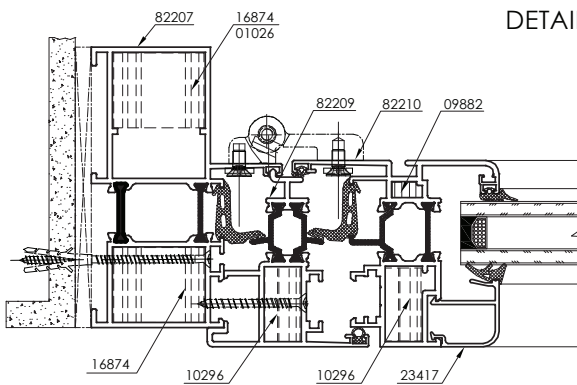
SINGLE LEAF HINGED DOOR
(OUTWARD OPENING)

Profiles		
Description	Shape	Section No.
Frame		82207
Bottom Frame		82201
Sash - Outward Opening		82210
Adaptor		82209
Glazing bead		23417
Corner cleat		09882
Corner cleat		16874
Corner cleat		10296
Angle 40*40*3.5		01026
Threshold		09006

DETAIL : B-B

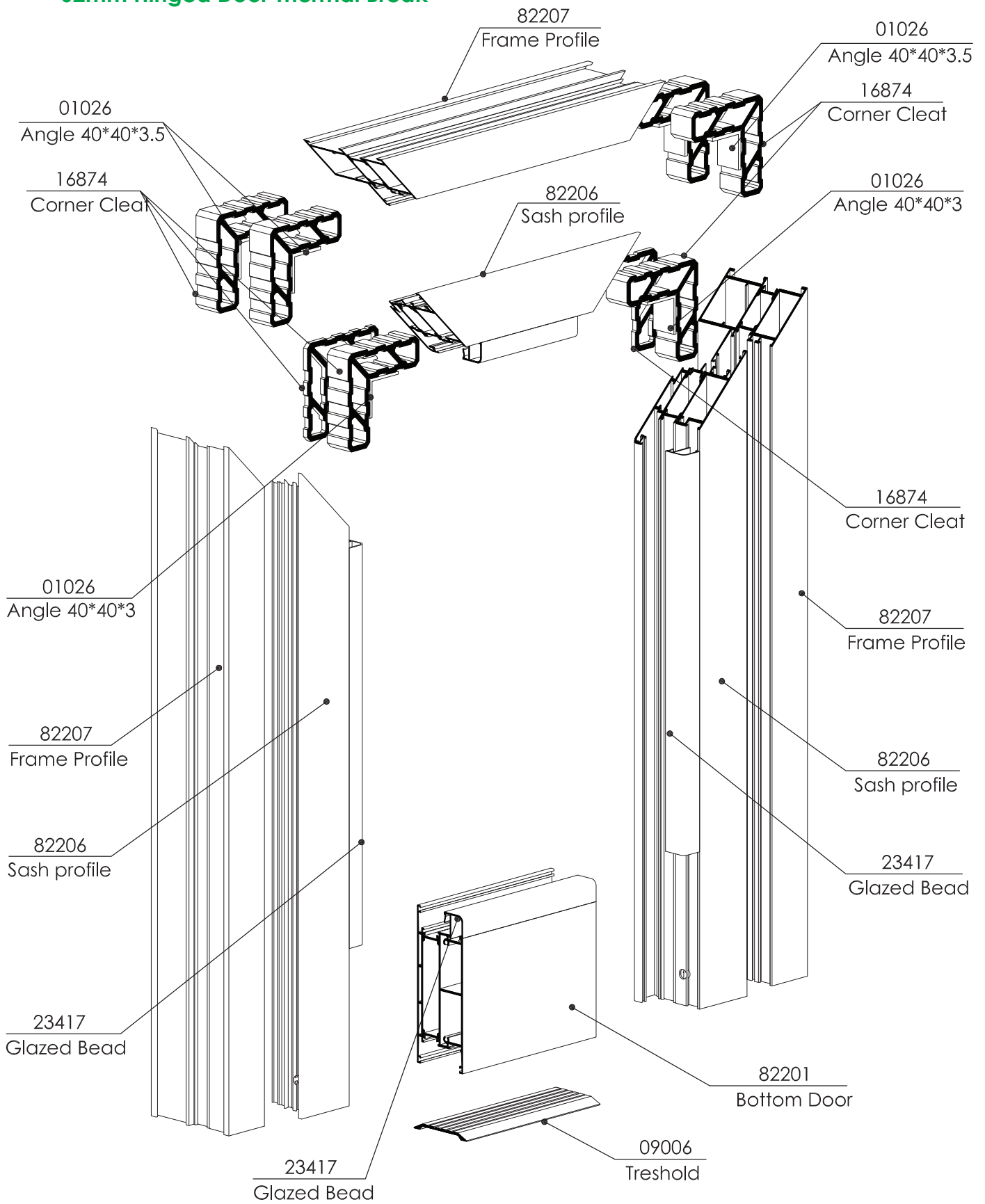


DETAIL : A-A

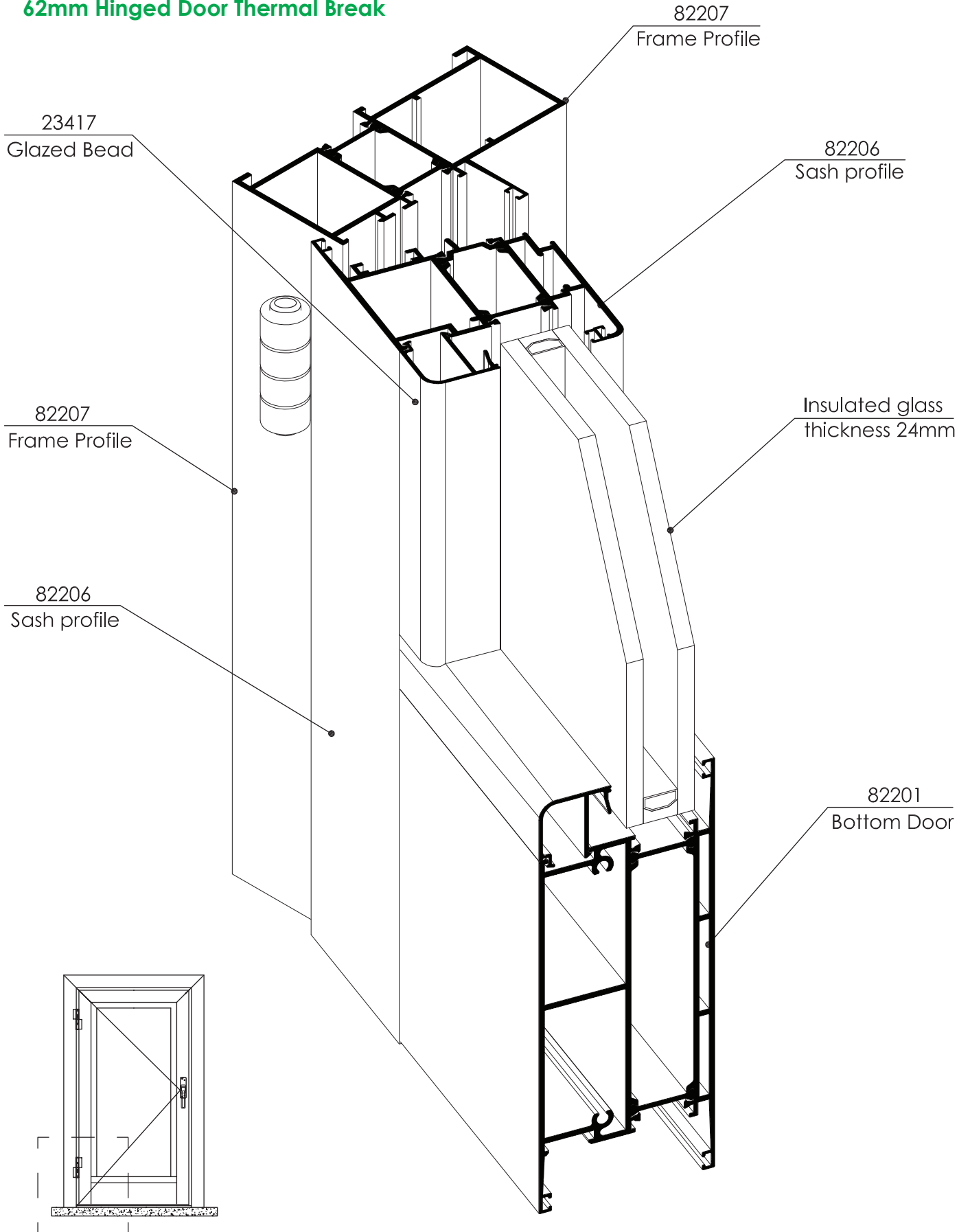


3D SECTIONS

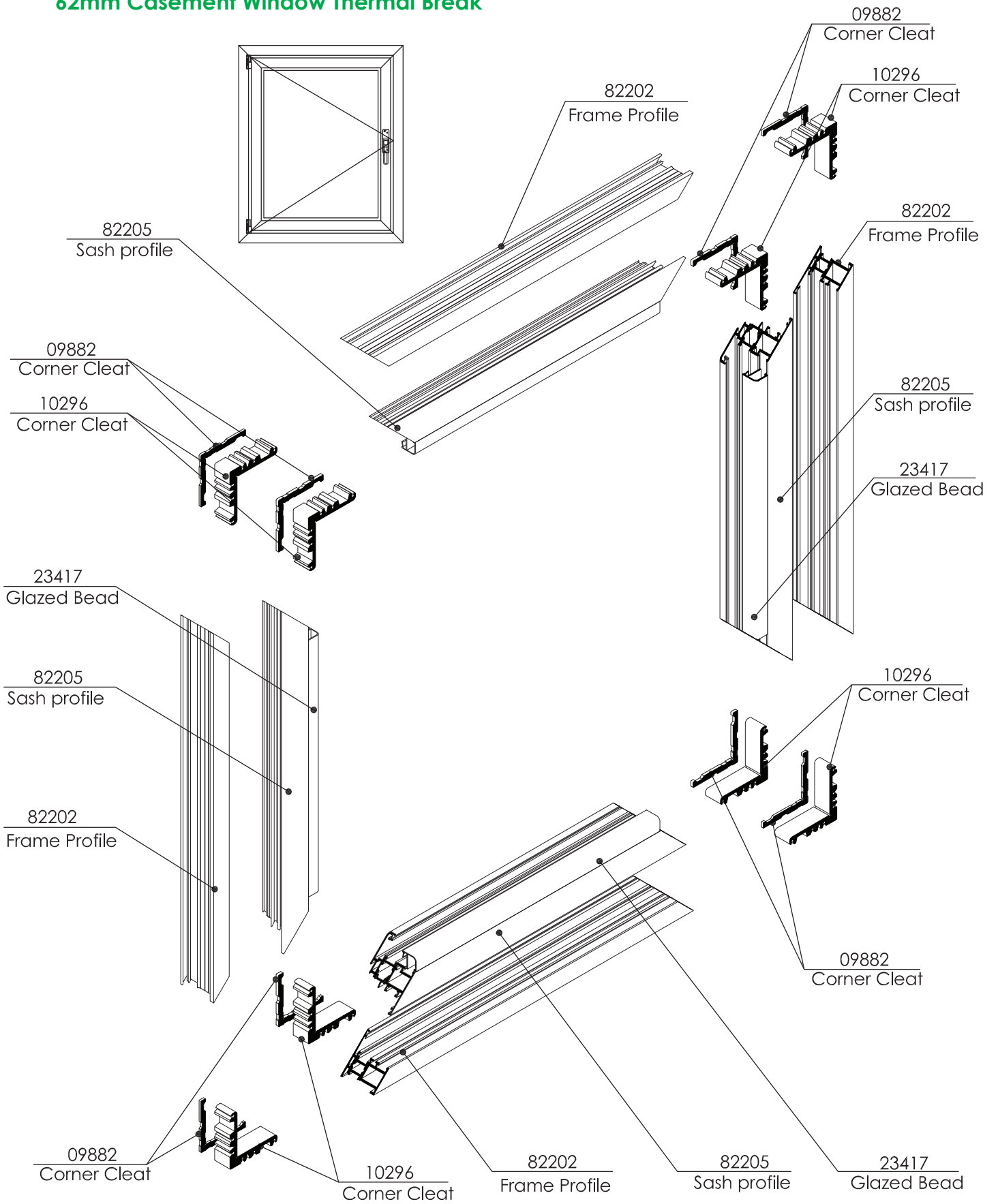
62mm Hinged Door Thermal Break



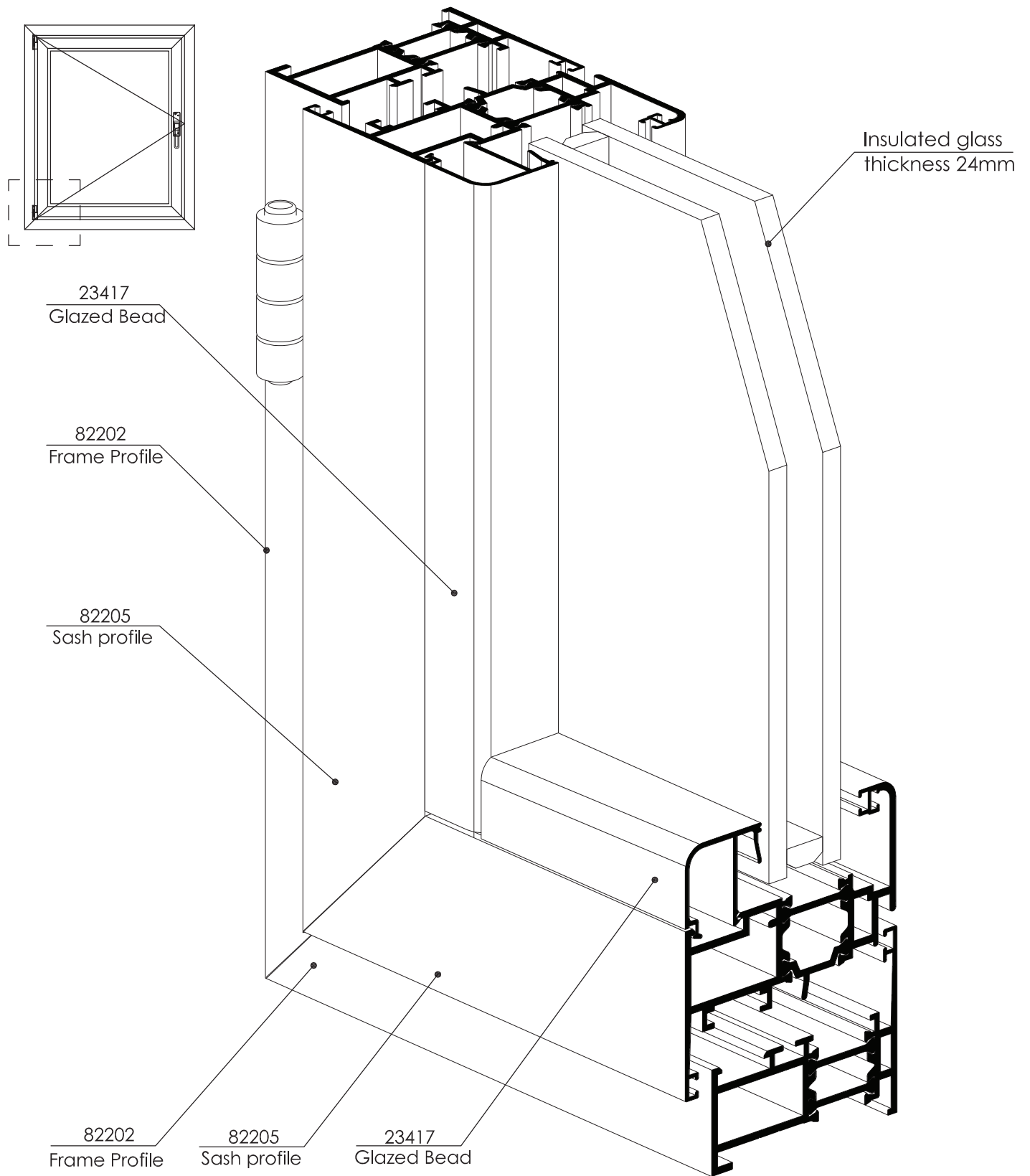
62mm Hinged Door Thermal Break



62mm Casement Window Thermal Break



62mm Casement Window Thermal Break



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