

Sliding Series 105-125mm

10-2015-V.02

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Sliding Series 105 - 125mm

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GULF EXTRUSIONS

Gulf Extrusions Co. LLC, the flagship company of the Al Ghurair Group of Companies, was founded in 1978, 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 60,000 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 18,000 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)



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

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

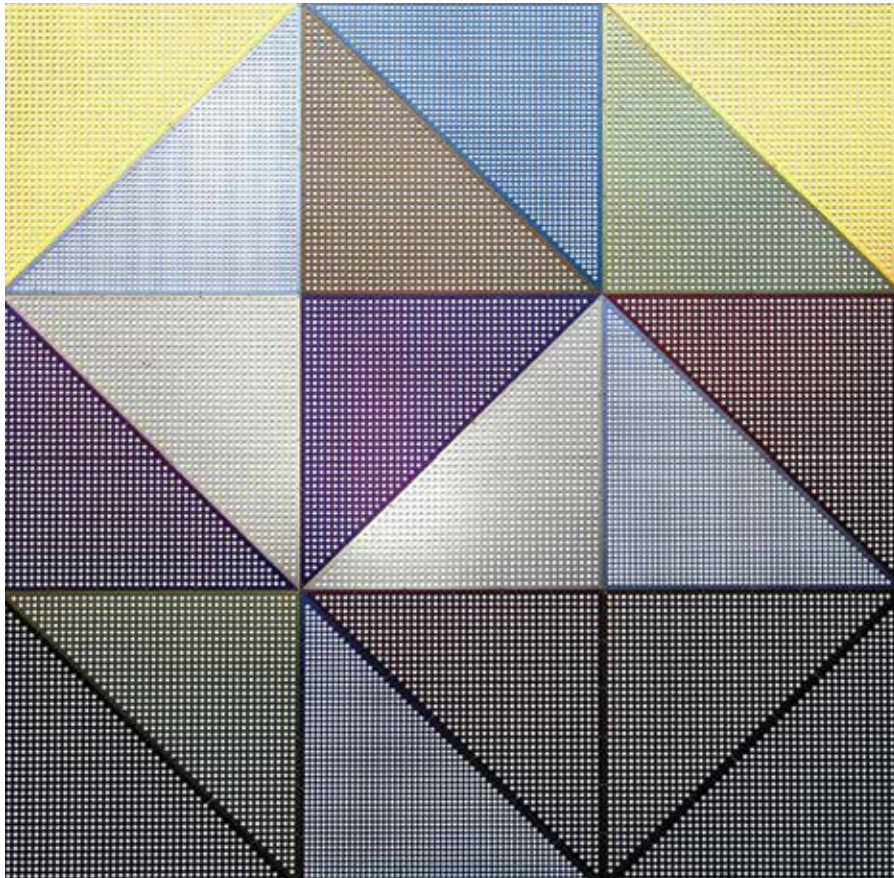
Element	Minimum	Maximum
Si	0.40	0.80
Fe	-	0.70
Cu	0.15	0.40
Mn	-	0.15
Mg	0.8	1.20
Cr	0.04	0.35
Zn	-	0.25
Ti	-	0.15
Other Each	-	0.05
Other Total	-	0.15
Aluminium	Remainder	

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



This is to certify that

Gulf Extrusions Co. Ltd

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 USE OF THE QUALANOD QUALITY LABEL FOR SULPHURIC ACID-BASED ANODIZING OF ALUMINIUM.

Date of issue of the licence: 10.03.2000
Period of validity of the licence: until 31.12.2015

Zurich, 17 November 2014

QUALANOD

Thomas Becker
President

CERTIFICATION BODY

Josef Schoppig
AC-Fiduciaire SA



Mailing address:
QUALANOD, P.O. Box 1507, CH-8027 Zurich
Domicile:
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Phone: +41 (0)43 305 09 70
Fax: +41 (0)43 305 09 98
E-mail: info@qualanod.net
Internet: www.qualanod.net

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



This is to certify that

Gulf Extrusions Co. Ltd

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 31.12.2015

Zurich, 17 November 2014

QUALICOAT

M. C. Panam

Mohammed C. Panam
President

CERTIFICATION BODY

JSW

Josef Schoppig
AC-Fiduciaire SA



Mailing address:
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Internet: www.qualicoat.net

INTRODUCTION TO THE SYSTEM

105 mm GulfEx Series is a design concept to combine esthetics and performance. Full solution package is supported to fulfill the requirements to cover the needed applications. According to the American National Standard It is designed for heavy duty use. The results have been impressive. All profiles are available in all colors in order to meet today's modern architectural requirements. For better performance of the system, alignment cleats for the frame and shutter are used. Specially designed EPDM Gaskets are made available with the system to enhance the performance and create easy assembly. Other accessories such as rollers and 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 800 tons to 4400 tons press. They are made of aluminum alloy 6060, 6063, 6082 and 6005 according to British Standard Specification for extrusion Dimension Tolerances BS EN 755-9:2008 and BS EN 12020-2:2008.

Frame:

Tubular with a width of 105mm, a wide range of frames are available to suit most of the required applications in the building codes. A 125mm frame is available to widen the use of the system. Fly screen rail is embedded in the frames. It is made for internal and external fly screen depending on the project requirements.

Sash:

Tubular straight, elegant and stylish. A wide range is available to cover all the needed applications and glass thickness.

Assembly:

Assembly of the frames is done by 45° cut whereas the sashes are custom 90° cut.

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W: www.exova.com



Testing. Advising. Assuring.

Confirmation of Testing Compliance FAÇADE TESTING & ADVISORY SERVICES DIVISION

Ref. AFE Report No: DLR0603 Date: April 2010

AFE COTC No: WQ09 12942 / C904

System Supplier:
Gulf Extrusions Co.,
P. O. Box 5598,
Dubai,
U.A.E

Installer:
Gulf Extrusions Co.,
P. O. Box 5598,
Dubai,
U.A.E

Project: System Development

System: Sliding Window 105mm Series

Al Futtaim Exova (AFE) tested components from the above-mentioned system at their Dubai laboratory on the date shown for the following parameters:

- » Air Infiltration ASTM E283-04
- » Water Penetration ASTM E331-00 (Static)
- » Wind Resistance ASTM E330-02 (Serviceability)
- » Wind Resistance ASTM E330-02 (Safety)
- » Performance grade ANSI/AAMA/NWDA 101/I.S.2.97

At the time of test, the system was found to comply with specification requirements for all the parameters tested. This confirmation of testing compliance relates only to the system described above, installed and tested at AFE Dubai laboratory, as fully detailed in test report referenced above.

Signed:  Test Engineer

Signed:  Manager

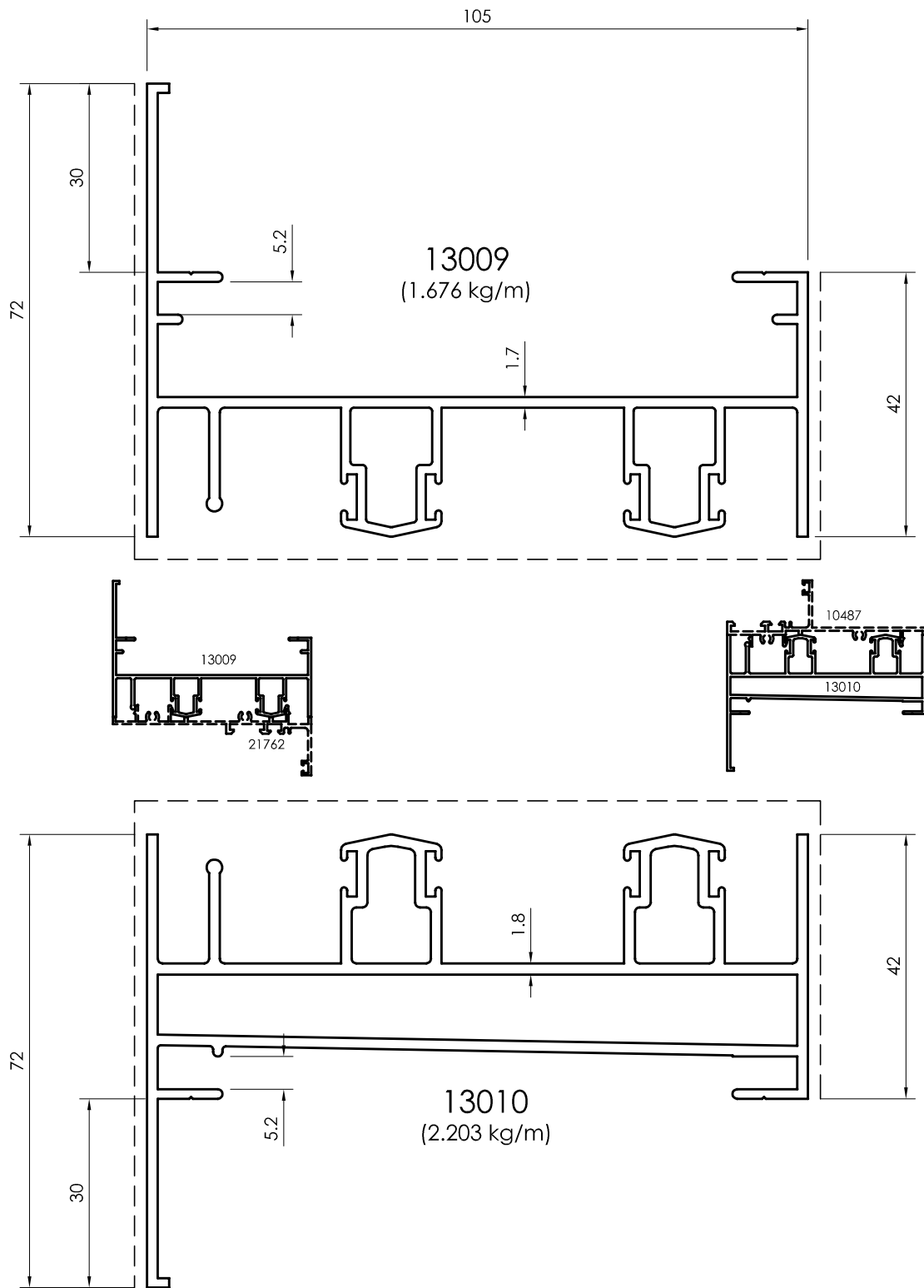
Company Commercial License No: 546636



PROFILES

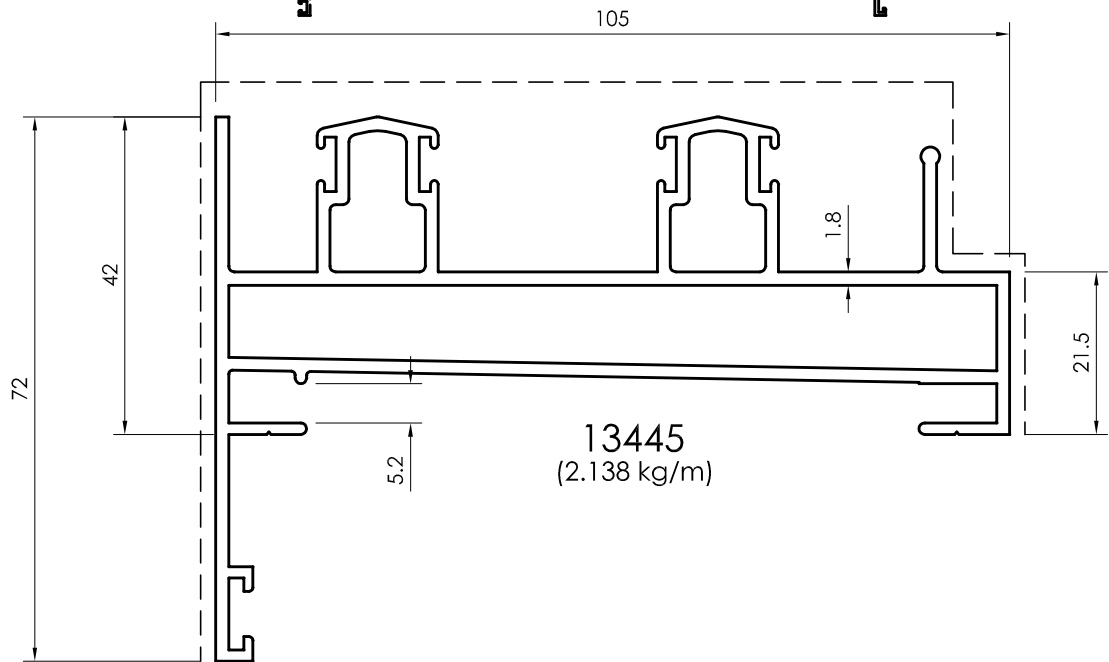
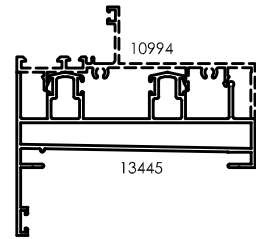
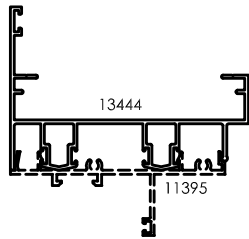
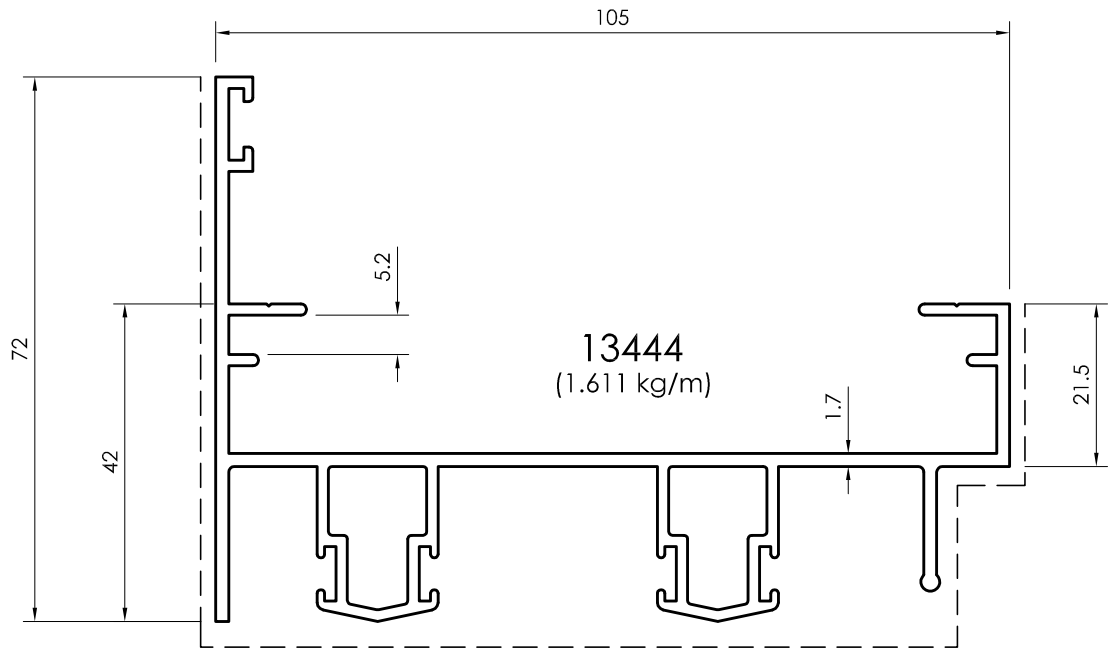
Frame Profiles - 105mm

Fly Screen Inside



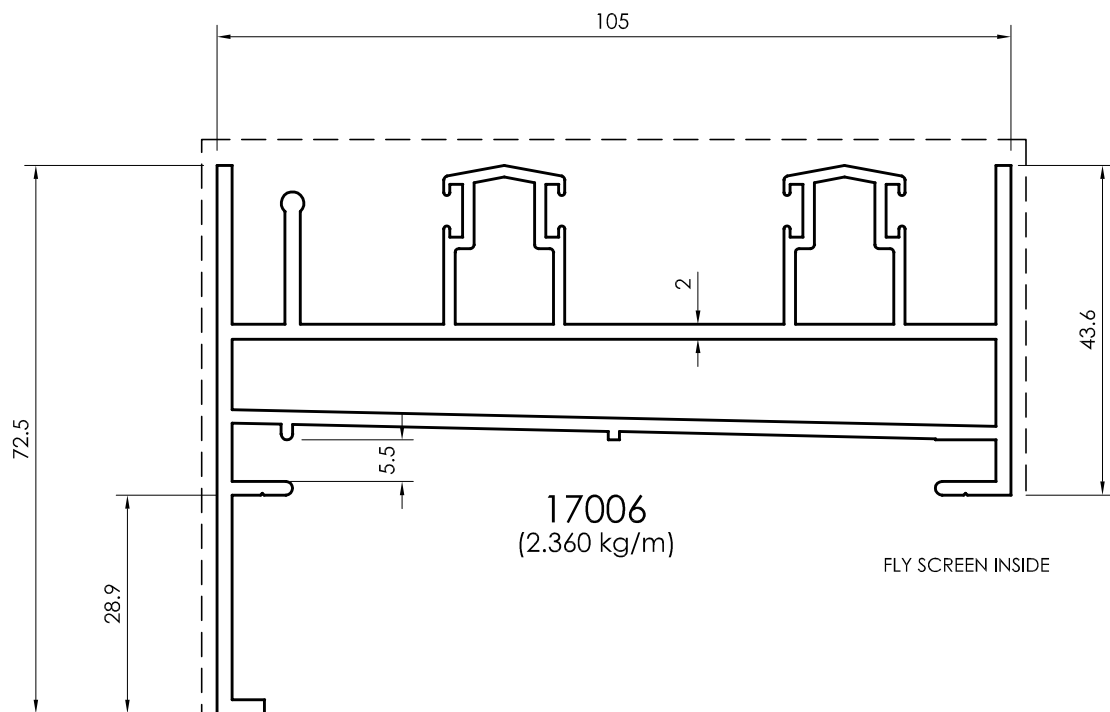
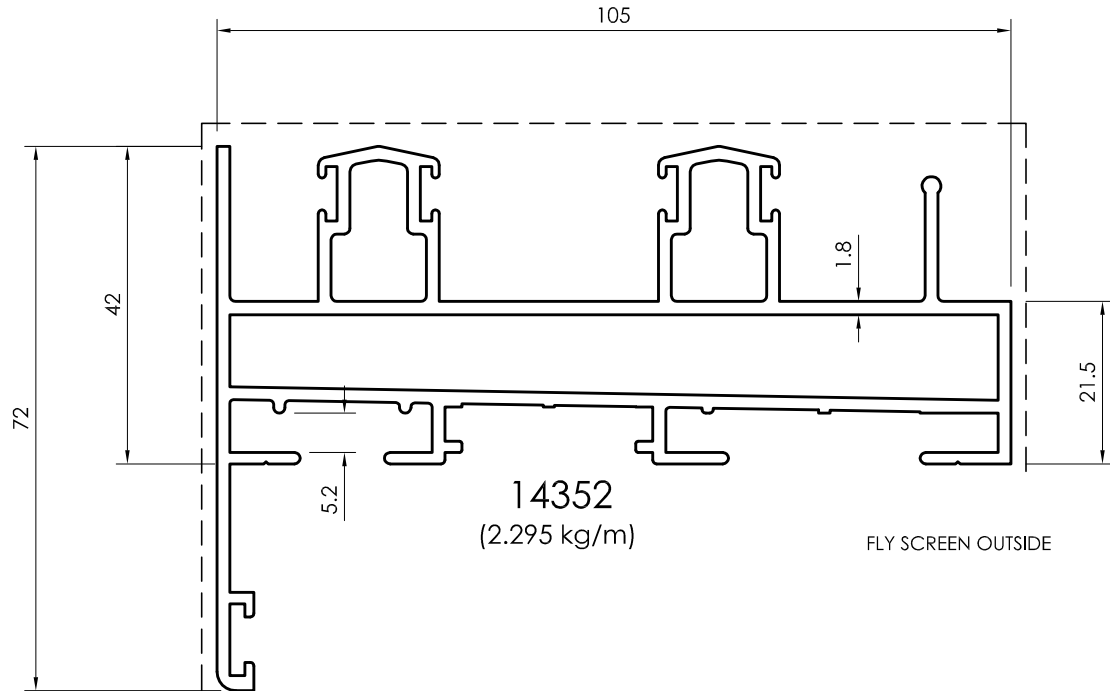
All dimensions in mm
Visible area_____

Frame Profiles - 105mm
Fly Screen Outside



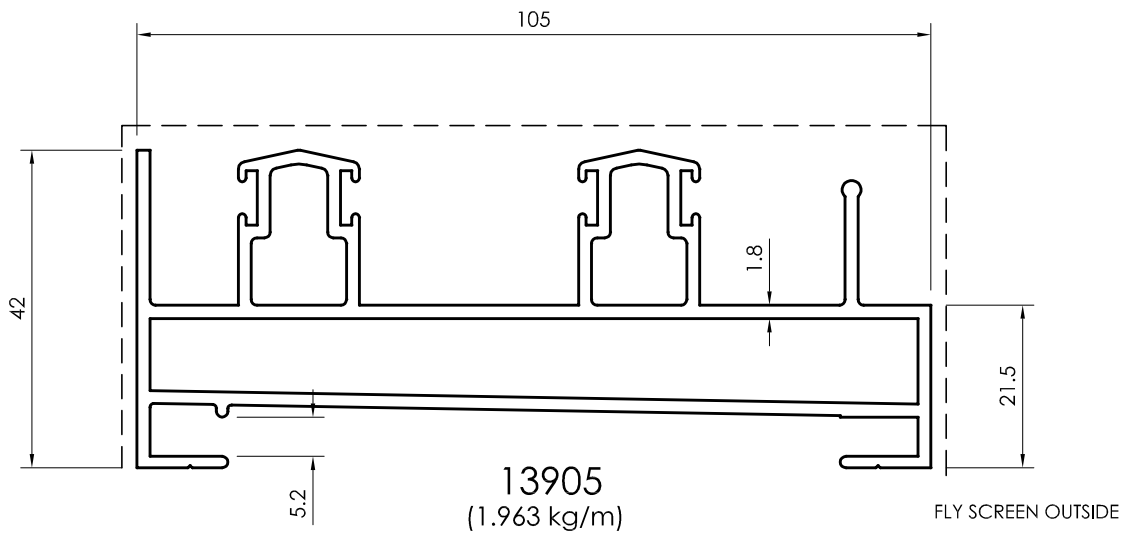
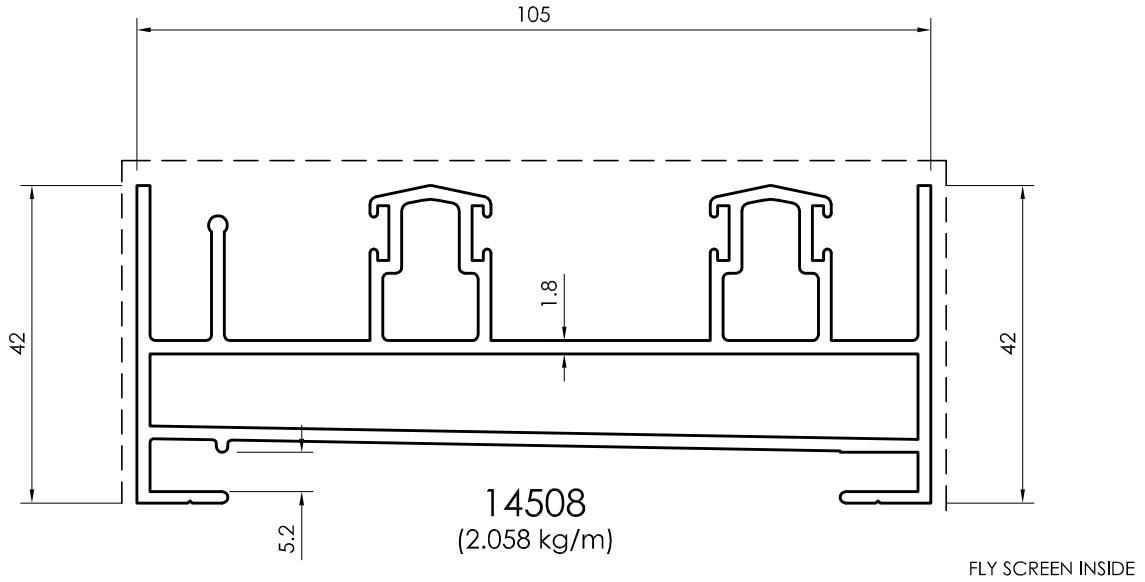
All dimensions in mm
----- Visible area

Frame Profiles - 105mm
Fly Screen In & Outside



All dimensions in mm
Visible area_____

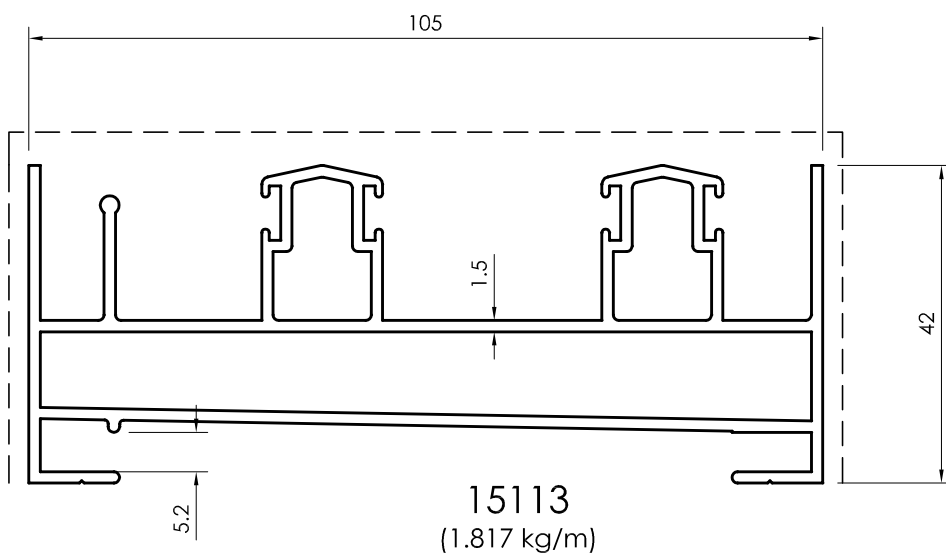
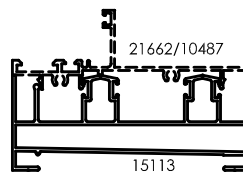
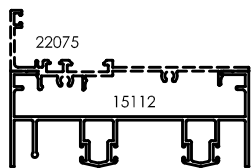
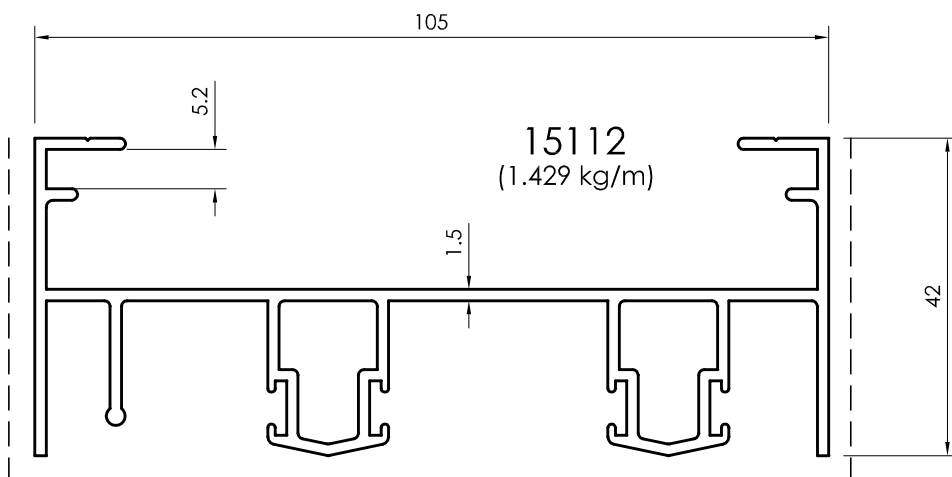
Frame Profiles - 105mm
Fly Screen In & Outside



All dimensions in mm
----- Visible area

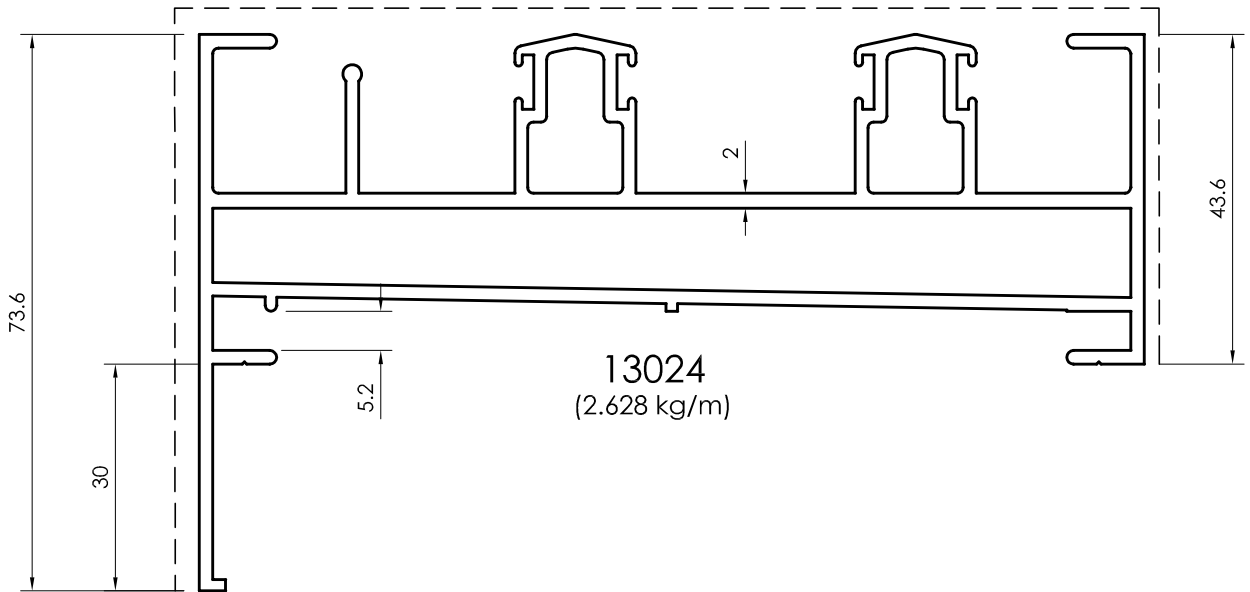
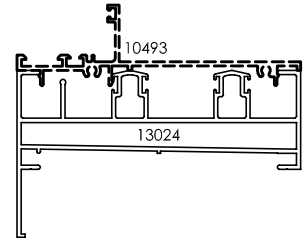
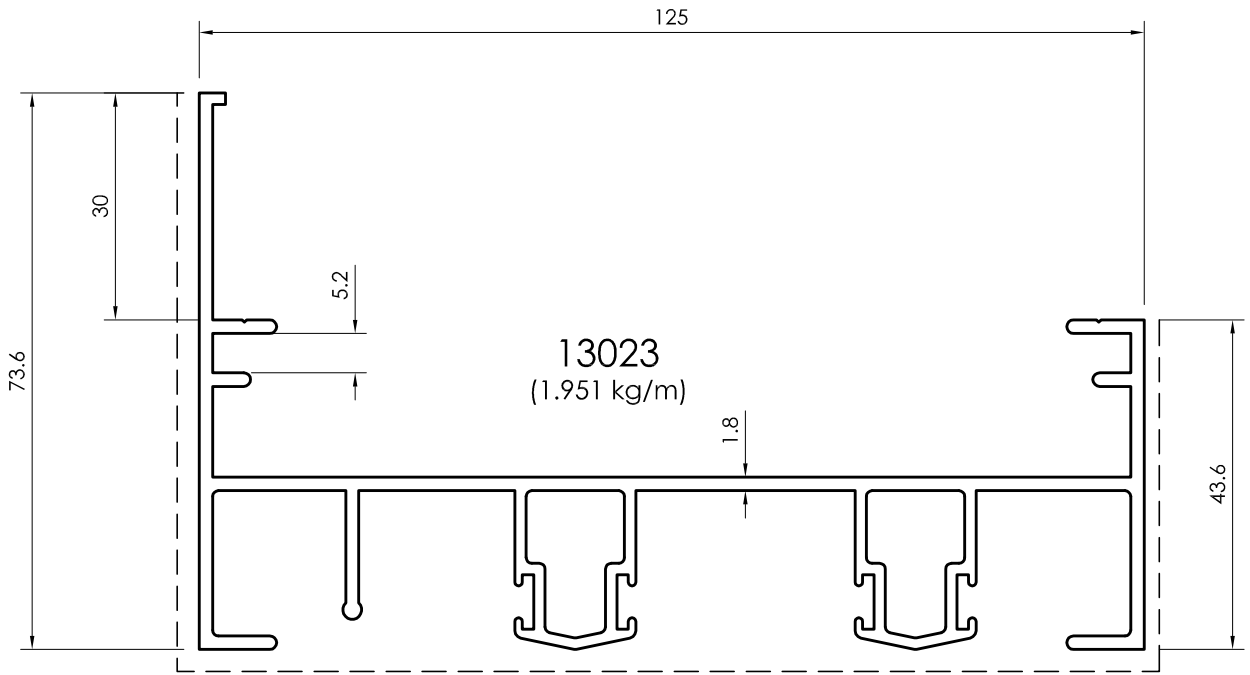
Frame Profiles - 105mm

Fly Screen Inside



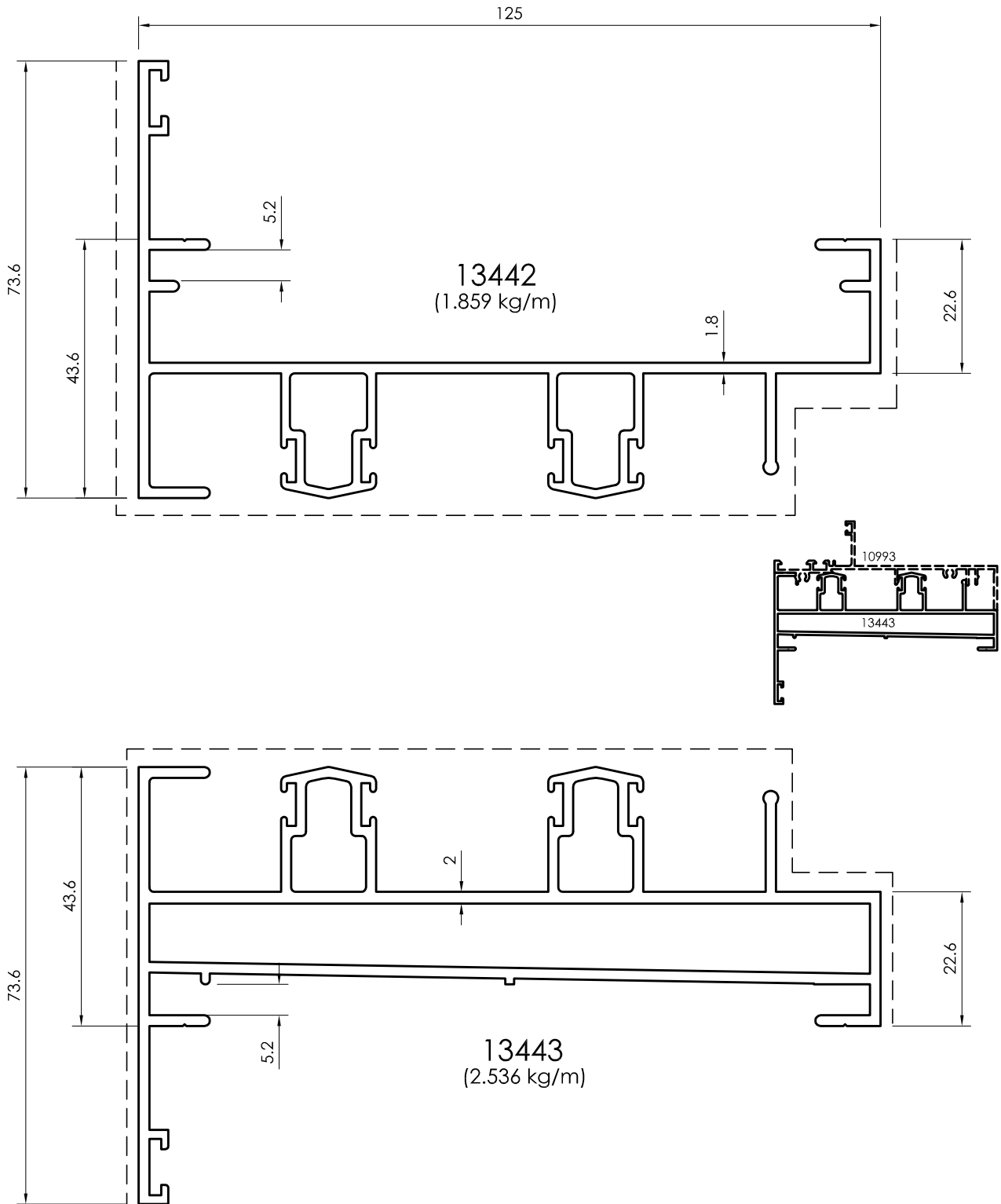
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Visible area_____

Frame Profiles - 105mm
Fly Screen Inside



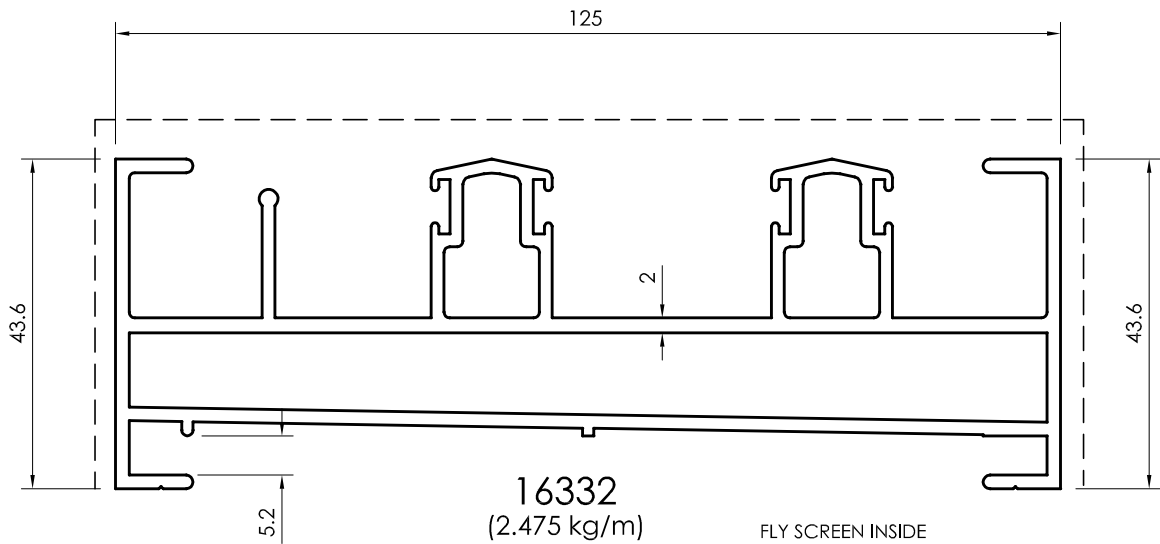
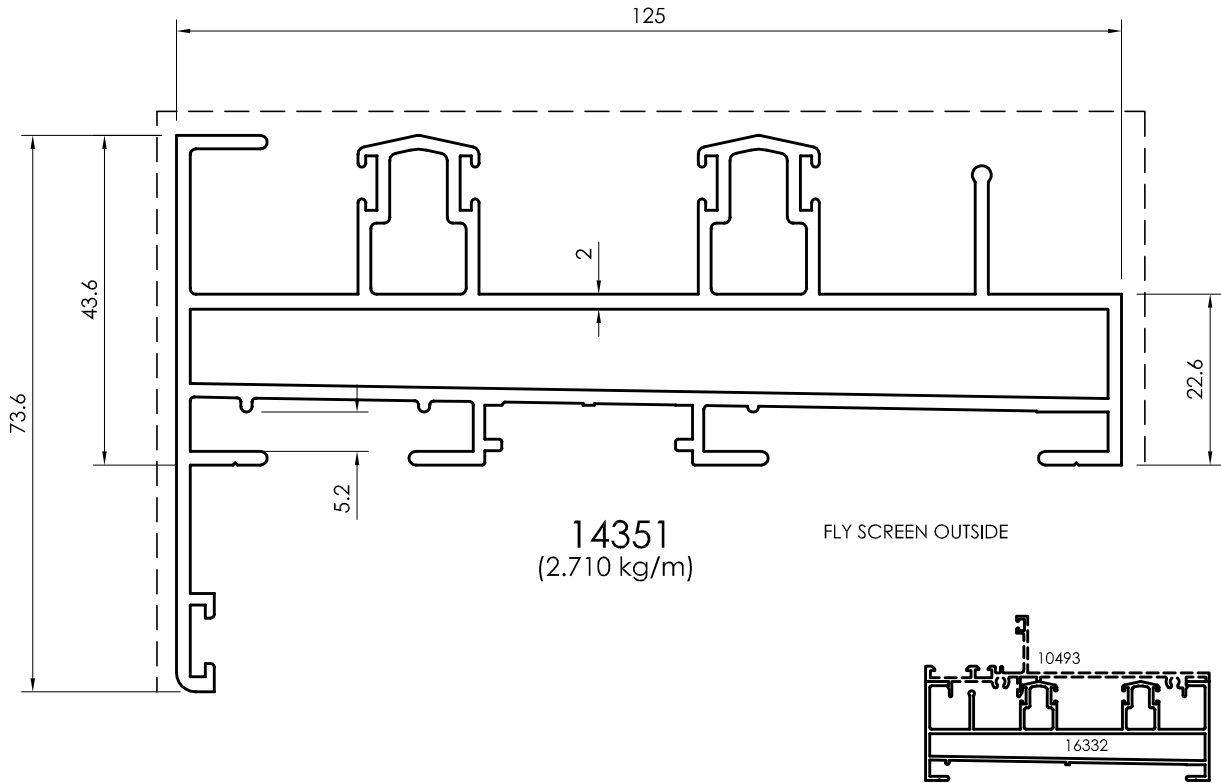
All dimensions in mm
----- Visible area

Frame Profiles - 125mm
Fly Screen Outside



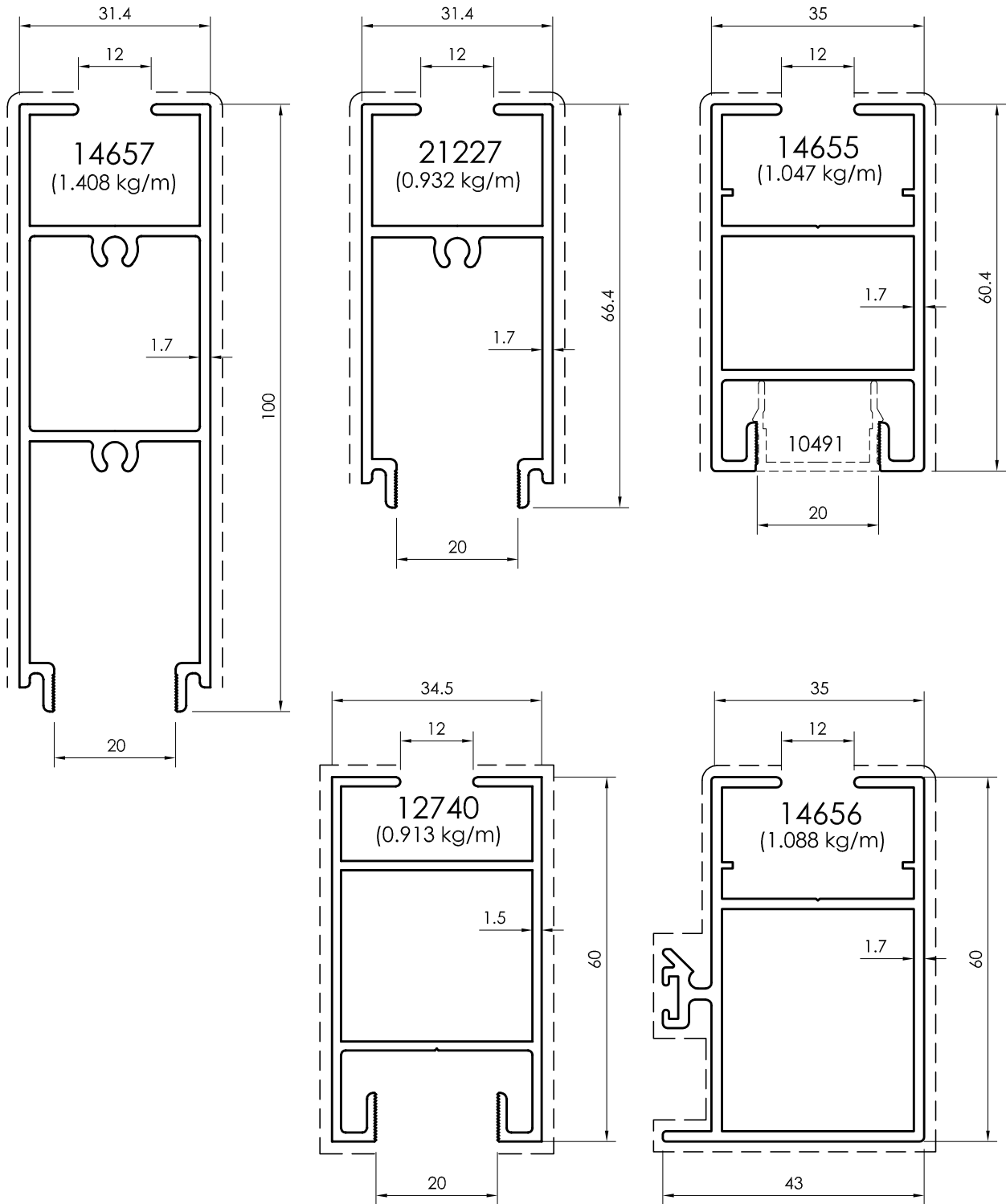
All dimensions in mm
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Frame Profiles - 125mm
Fly Screen In & Outside



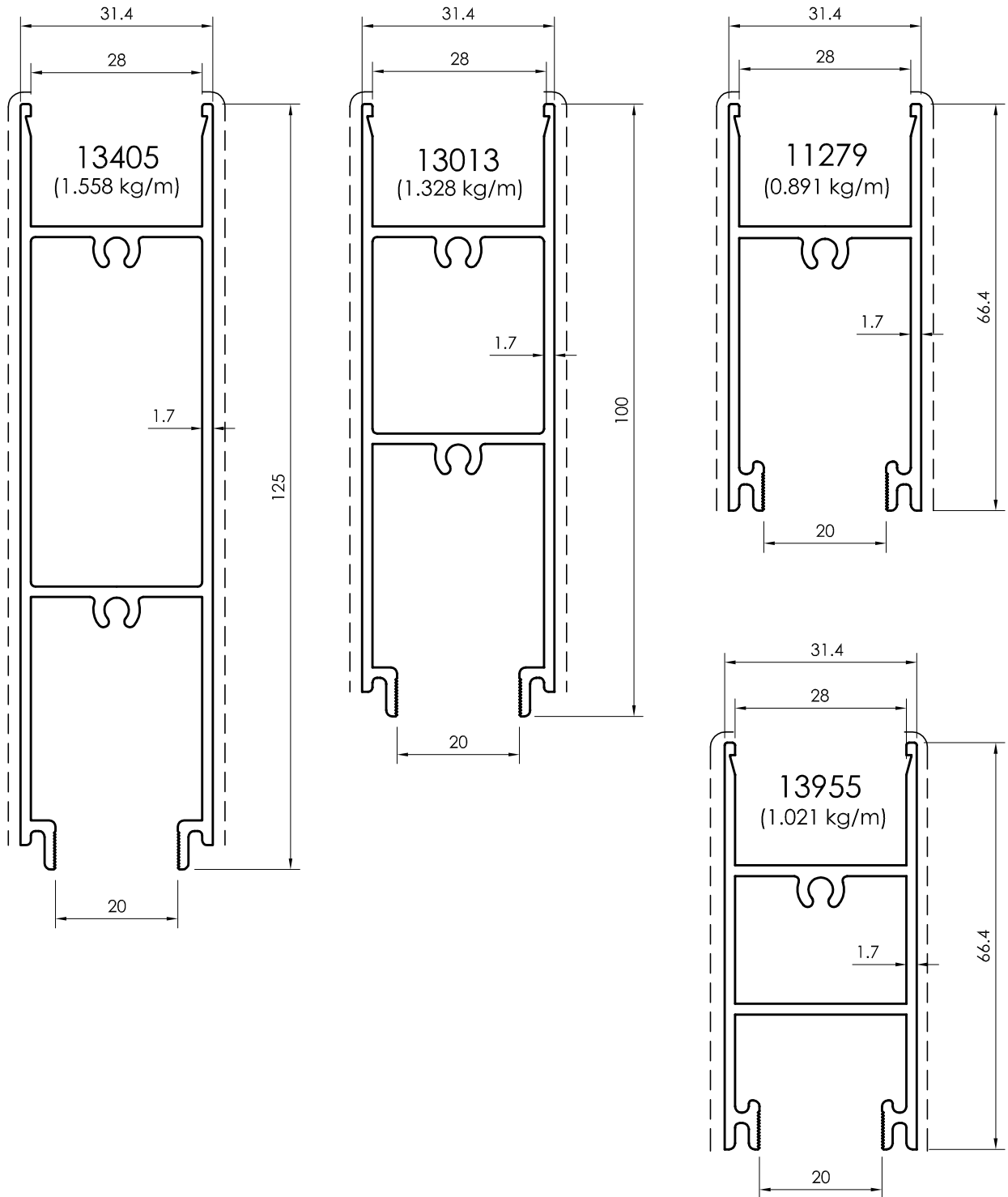
All dimensions in mm
----- Visible area

Sash / Interlock Profiles - 105mm / 125mm
 Used With Umbrellas Frame Profile



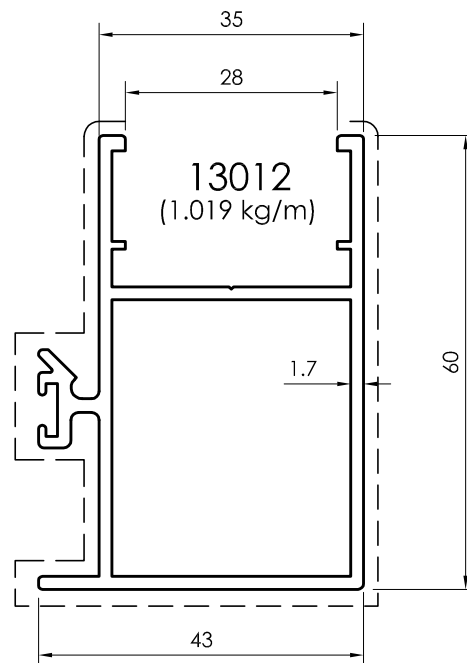
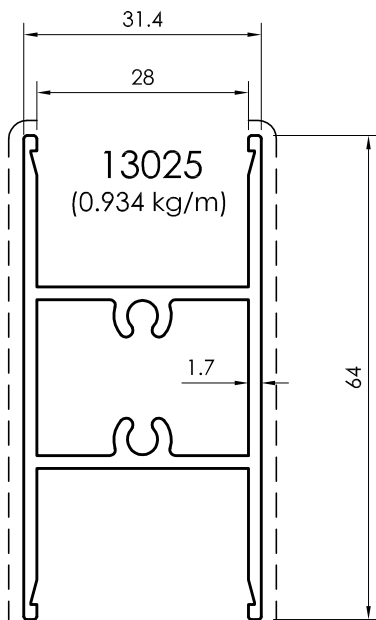
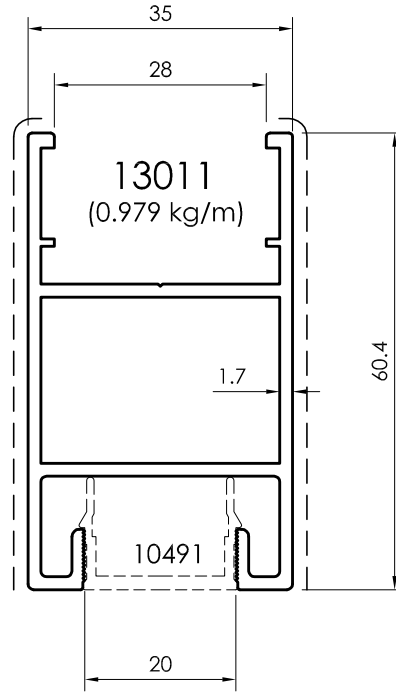
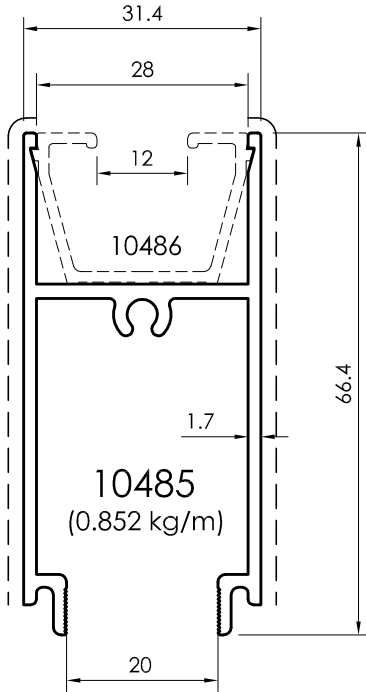
All dimensions in mm
 Visible area_____

Sash Profiles - 105mm / 125mm
Used With Umbrellas Frame Profile



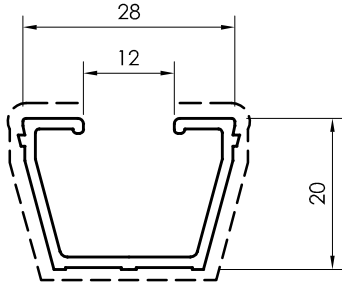
All dimensions in mm
----- Visible area

Sash / Interlock Profiles - 105mm / 125mm
Used With Umbrellas Frame Profile

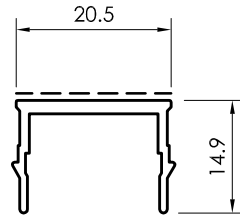


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Visible area_____

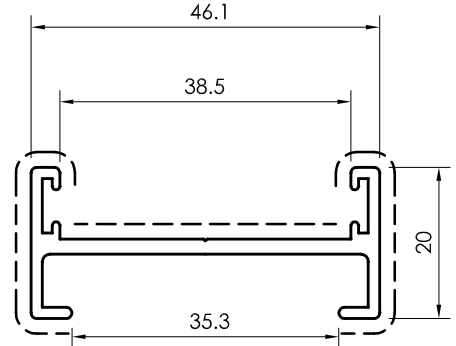
Complementary Profiles - 105mm / 125mm



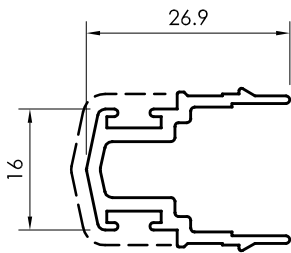
10486
(0.282 kg/m)
SASH SINGLE GLASS ADAPTOR



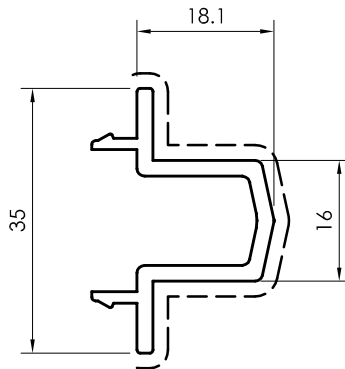
10491
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SASH COVER CAP



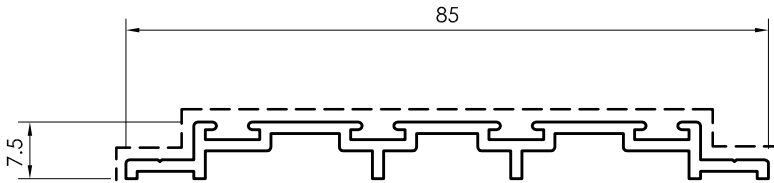
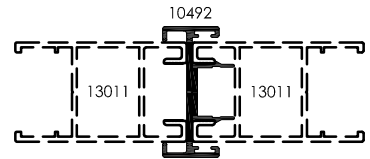
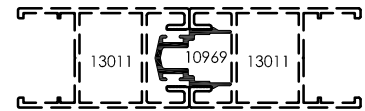
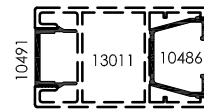
10492
(0.468 kg/m)
4 VENTS MID SECTION



10969
(0.332 kg/m)
4 VENTS MID SECTION



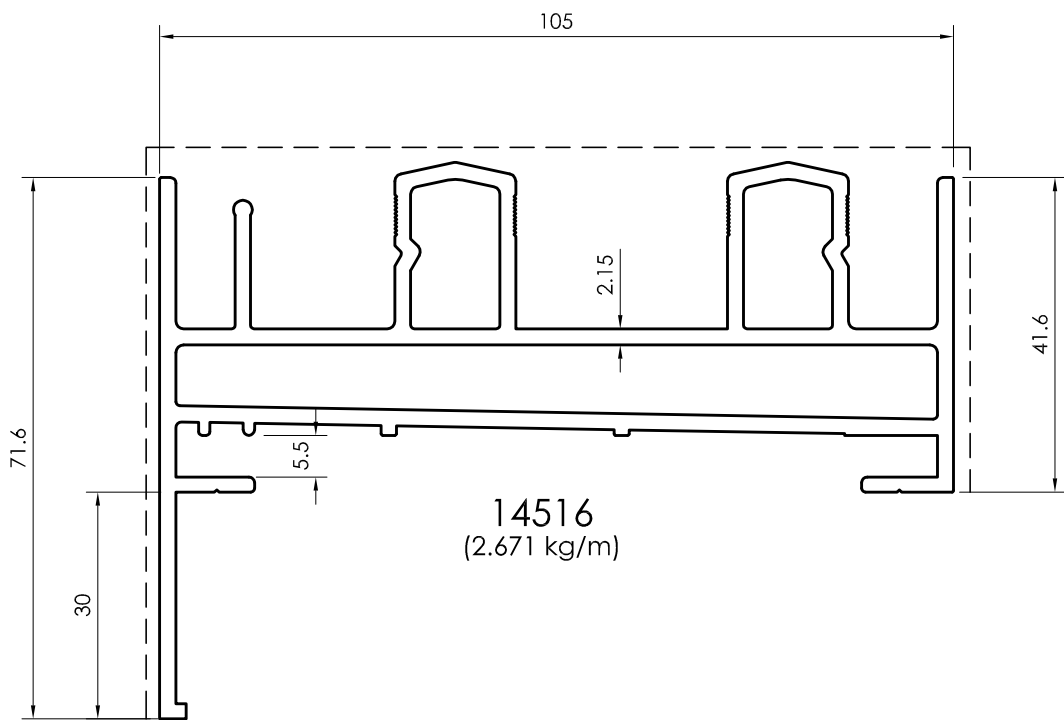
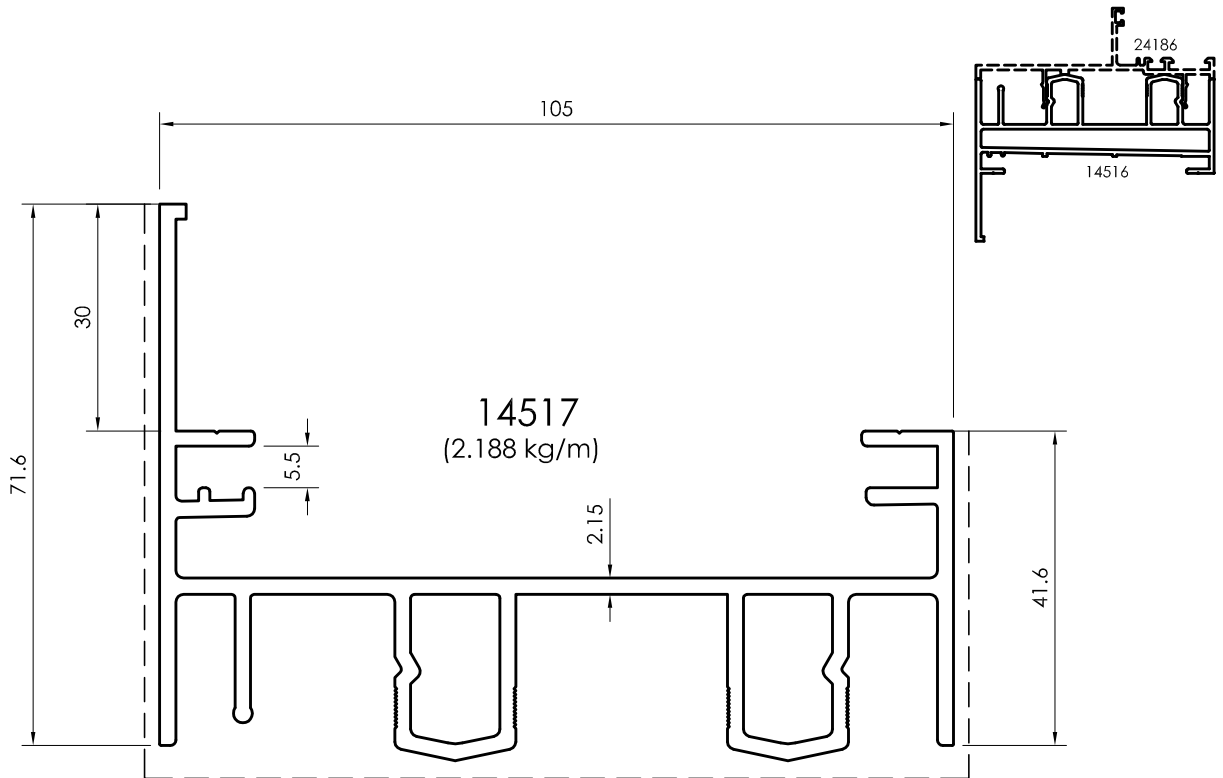
21111
(0.413 kg/m)
4 VENTS MID SECTION



10657
(0.515 kg/m)
DUST PROOF PROFILE

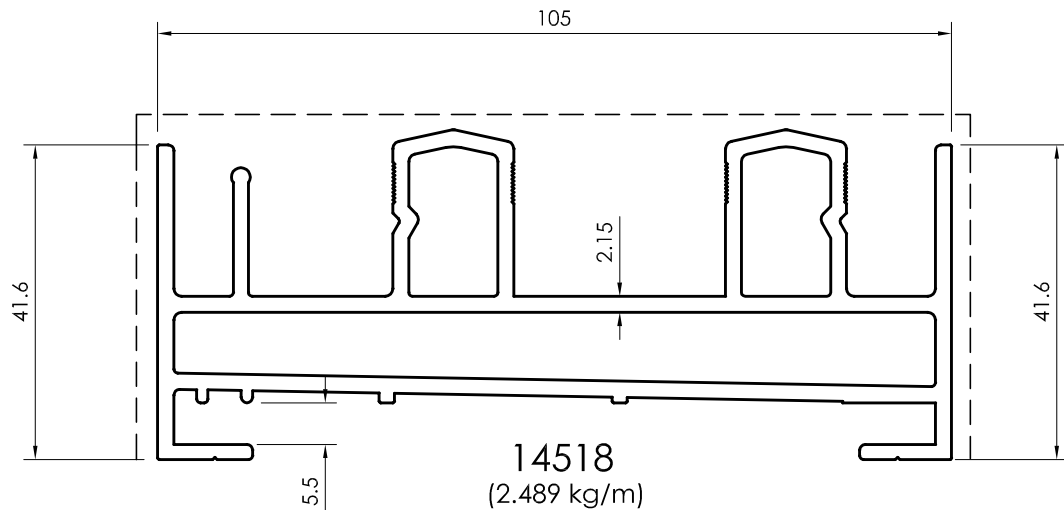
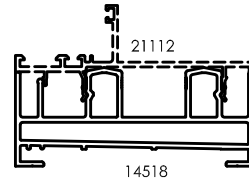
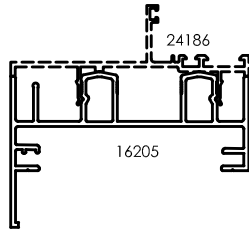
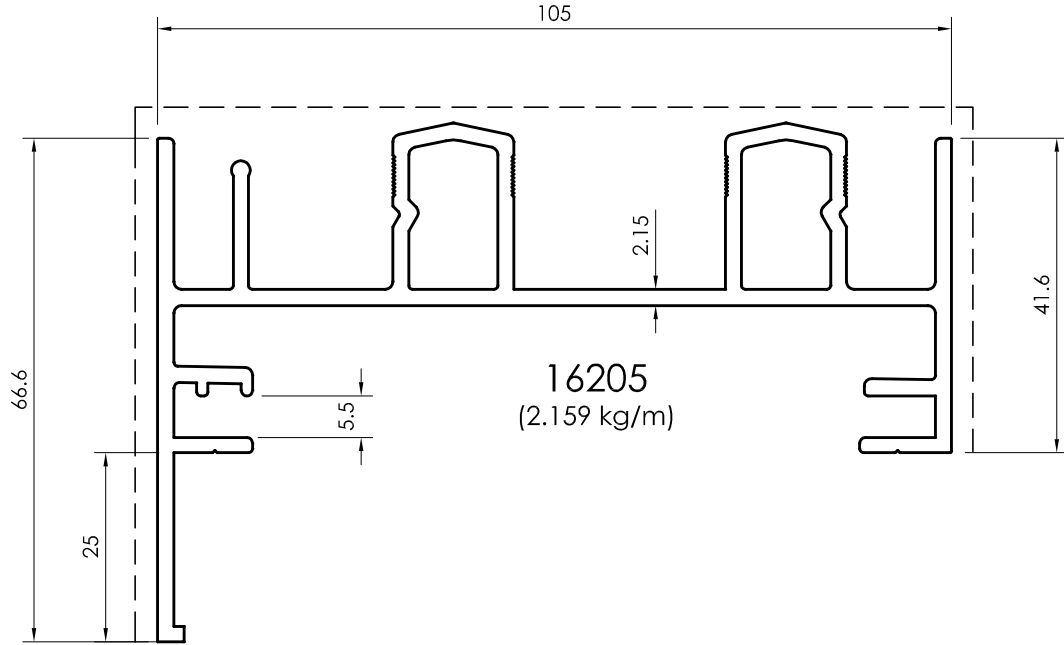
All dimensions in mm
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Frame Profiles - 105mm
Fly Screen Inside



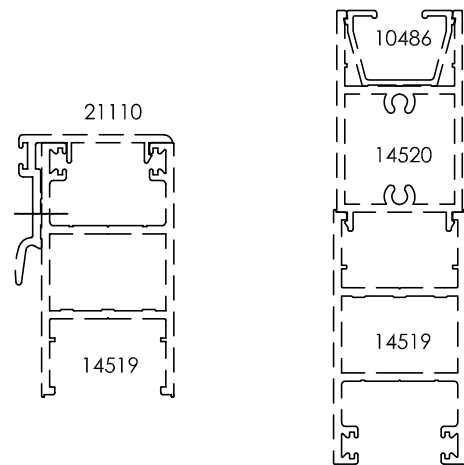
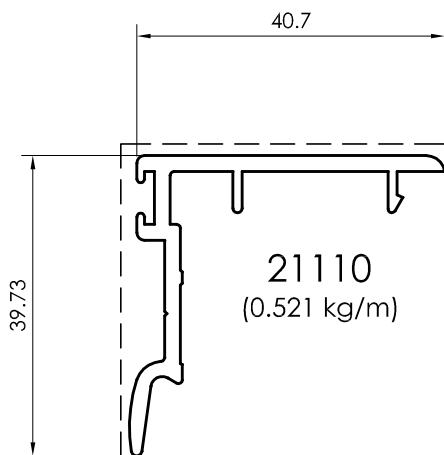
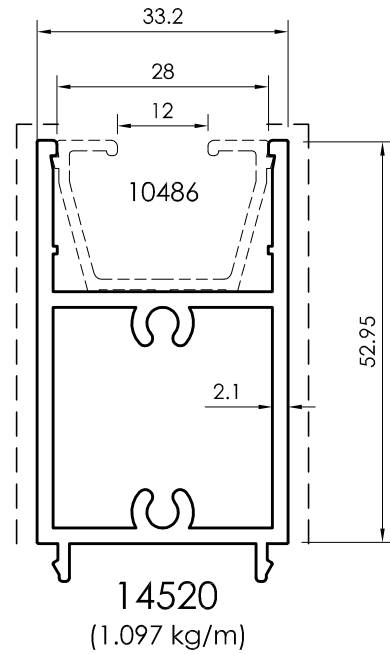
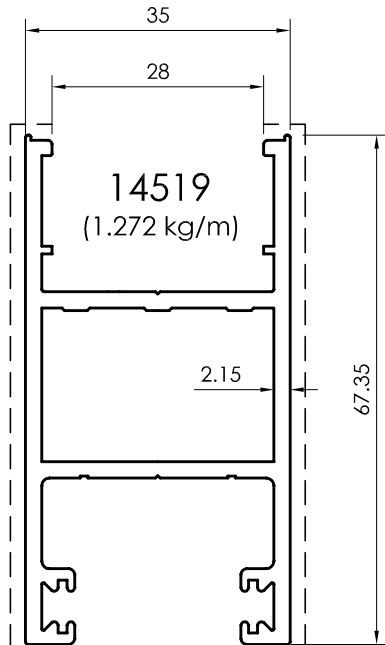
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Visible area_____

Frame Profiles - 105mm
Fly Screen Inside



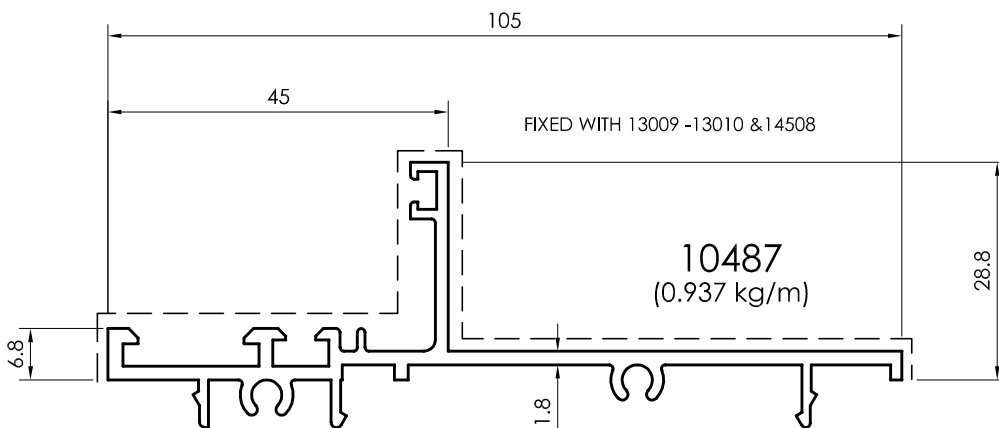
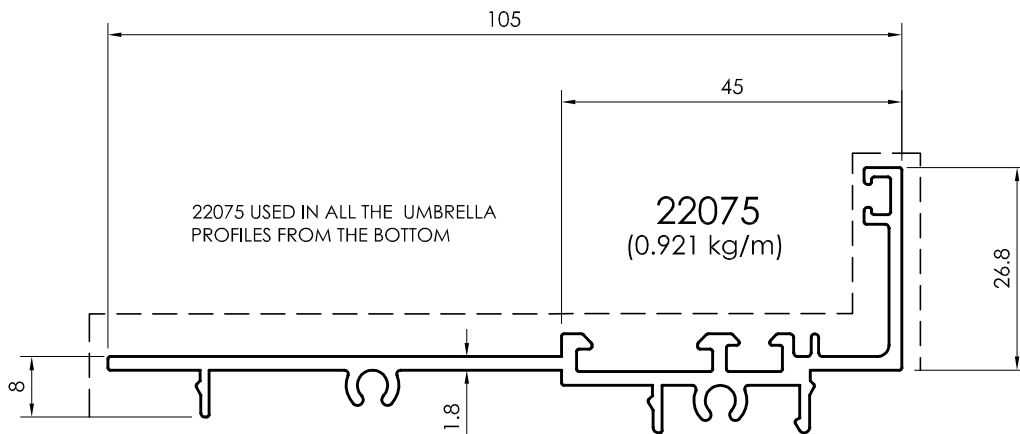
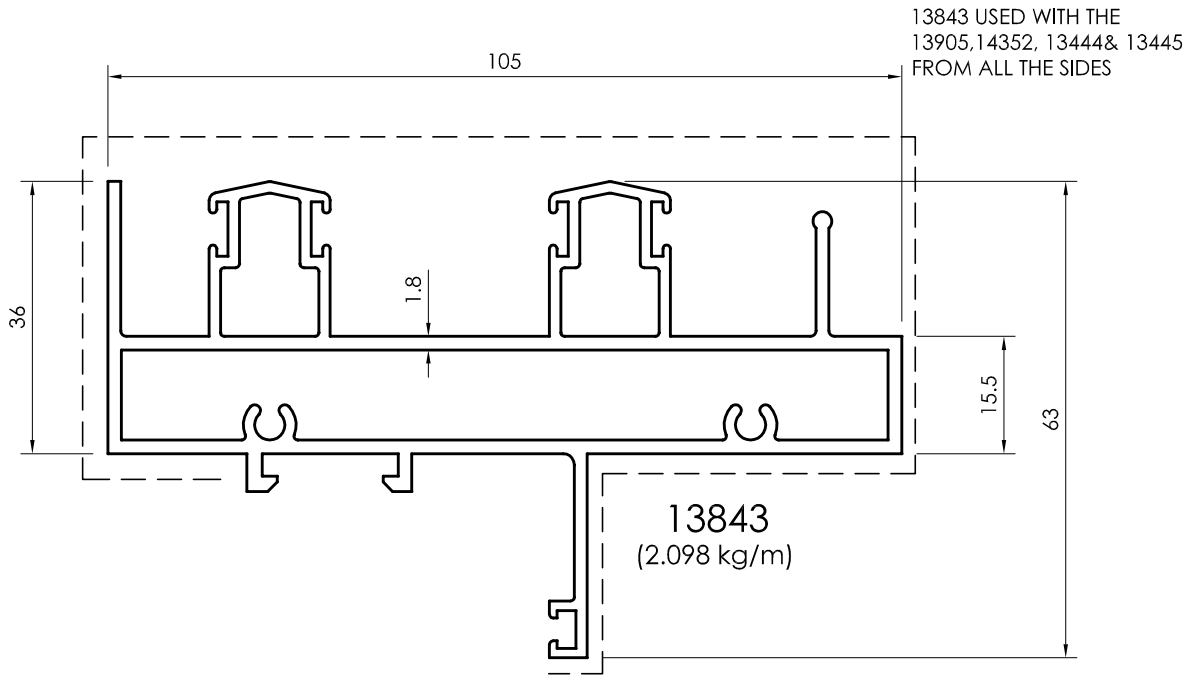
All dimensions in mm
----- Visible area

Sash / Interlock Profiles - 105mm / 125mm
 Used With Umbrellas Frame Profile



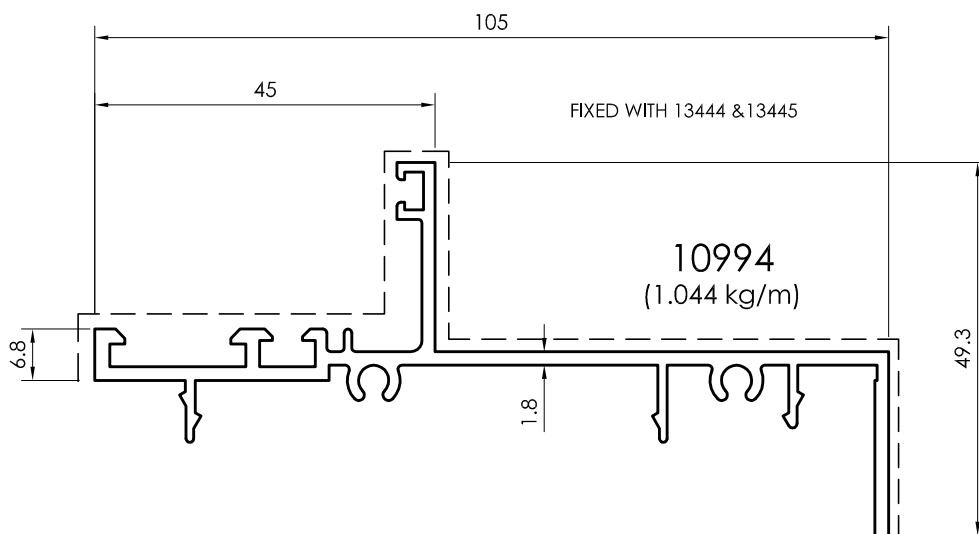
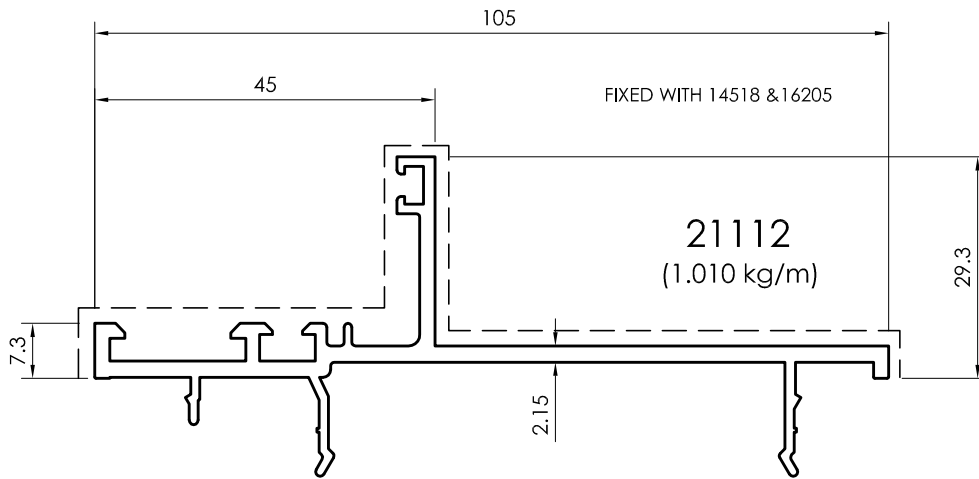
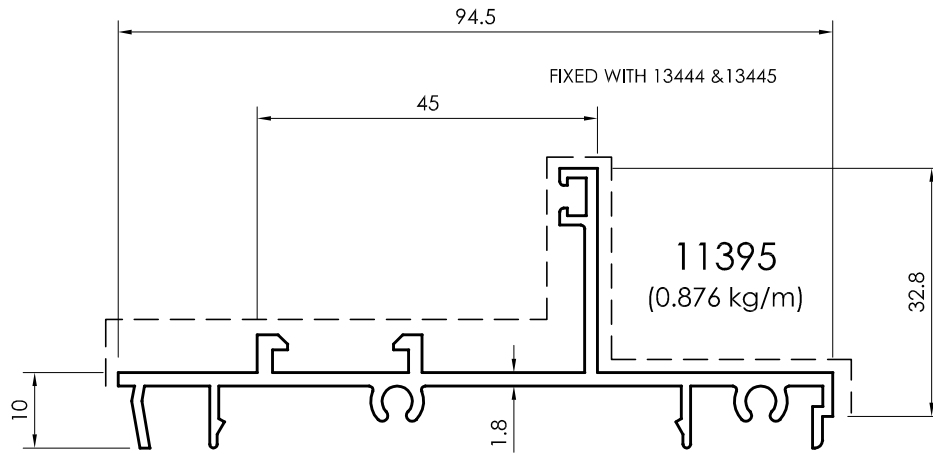
All dimensions in mm
 Visible area_____

Adaptor Profiles - 105mm



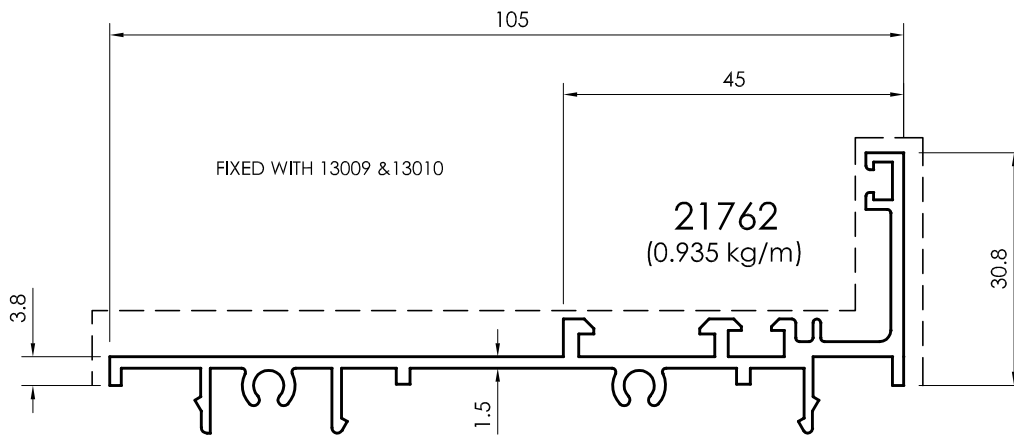
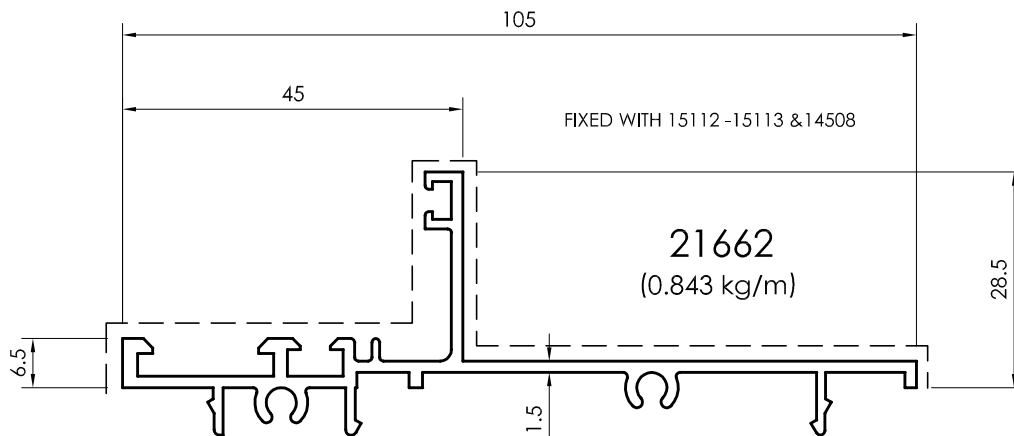
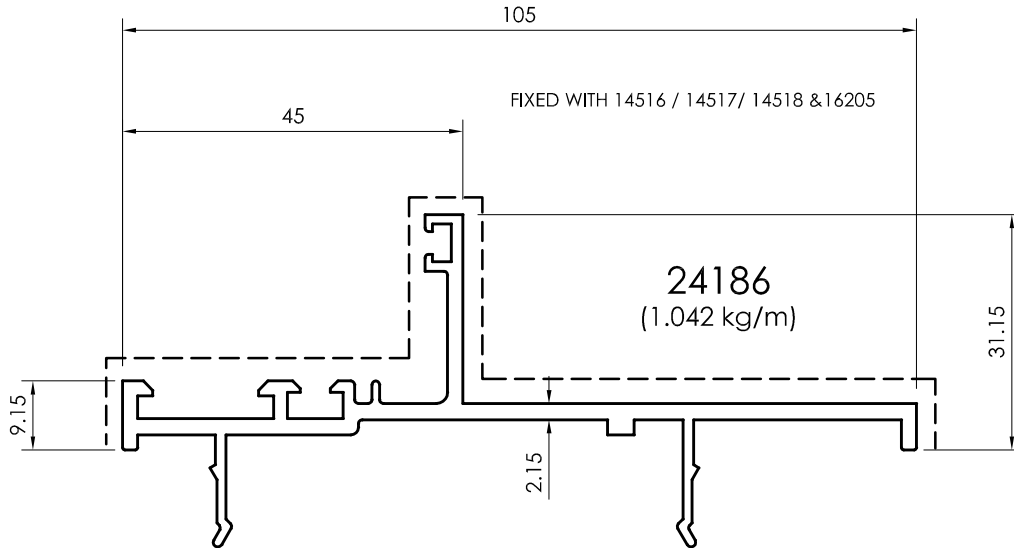
All dimensions in mm
----- Visible area

Adaptor Profiles - 105mm



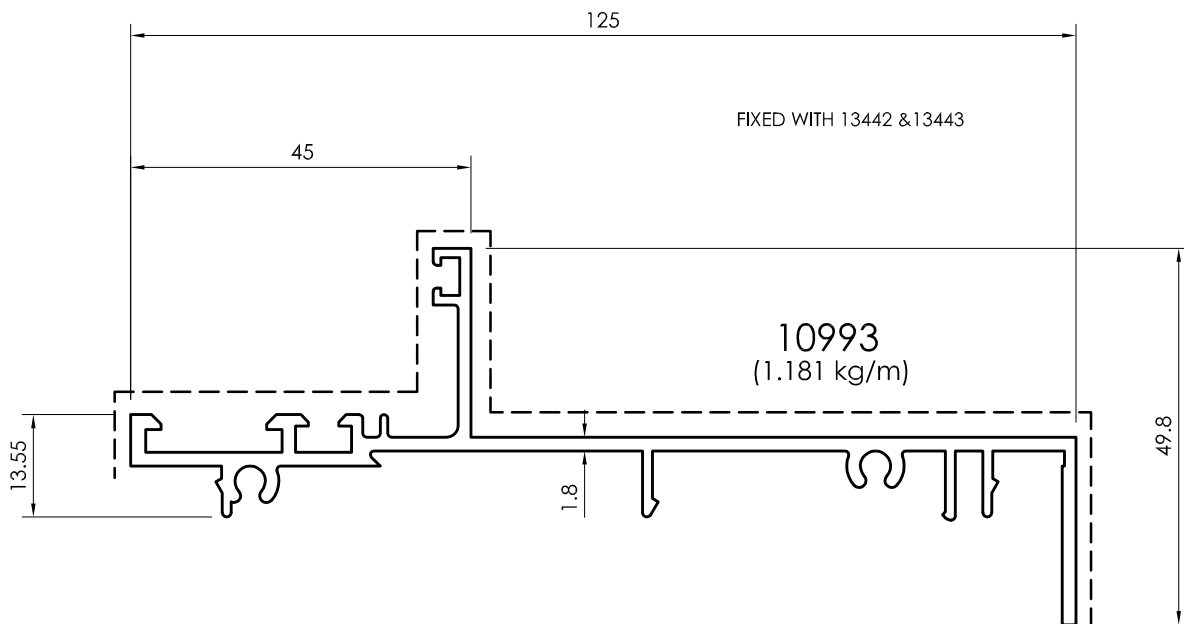
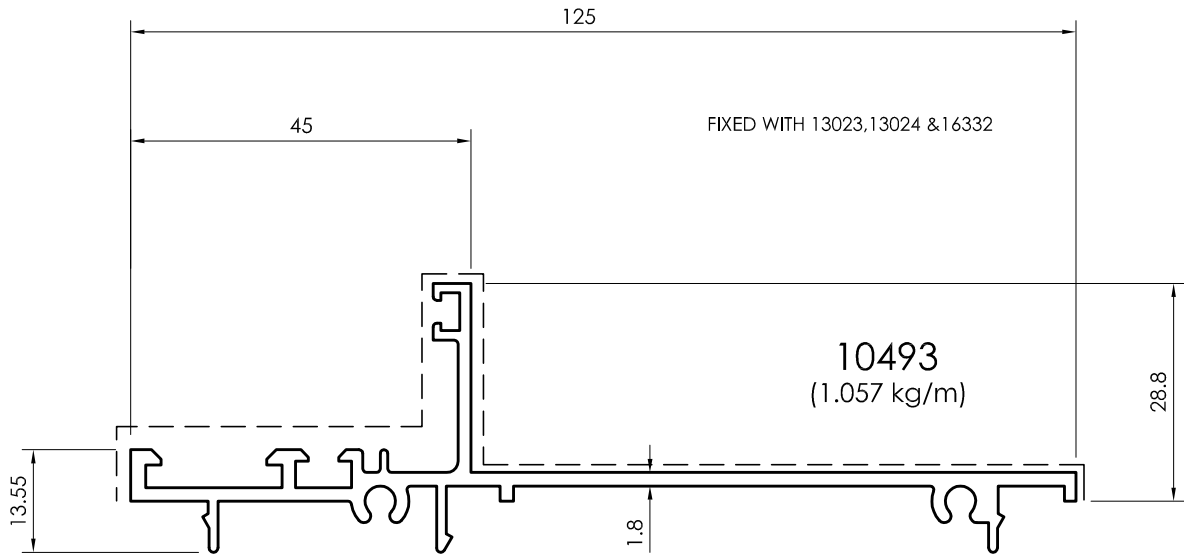
All dimensions in mm
Visible area_____

Adaptor Profiles - 105mm



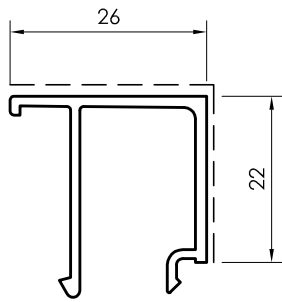
All dimensions in mm
 - - - - - Visible area

Adaptor Profiles - 125mm

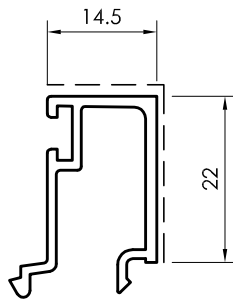


All dimensions in mm
 ----- Visible area

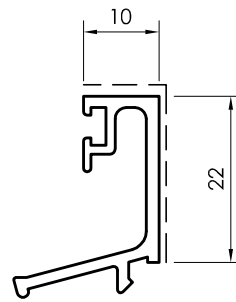
Glazing Beads Profiles



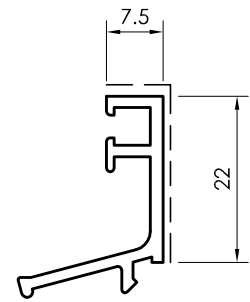
10371
(0.298 kg/m)
FOR GLASS 6MM & 8MM



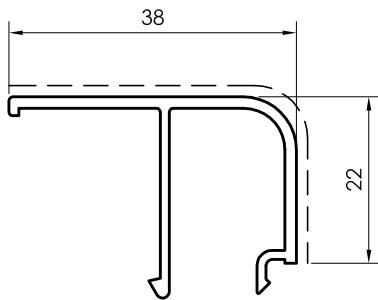
10377
(0.282 kg/m)
FOR GLASS 18MM & 20MM



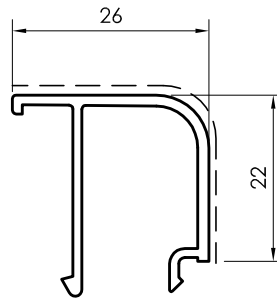
10464
(0.271 kg/m)
FOR GLASS 24MM



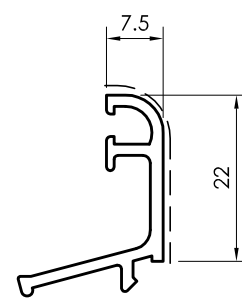
11321
(0.251 kg/m)
FOR GLASS 28MM



11547
(0.340 kg/m)
FOR SHEET 1.0MM & 2.0MM



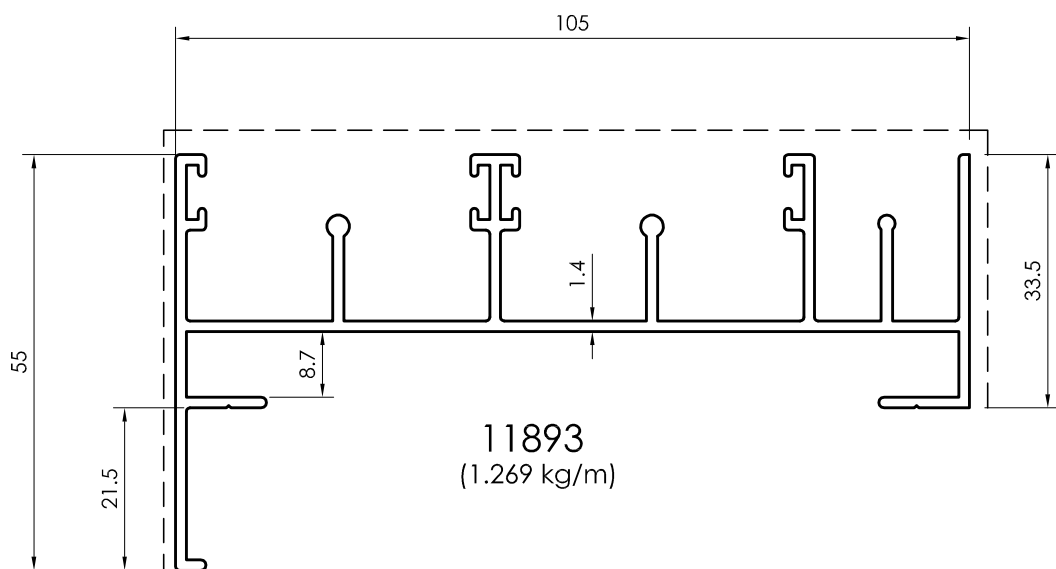
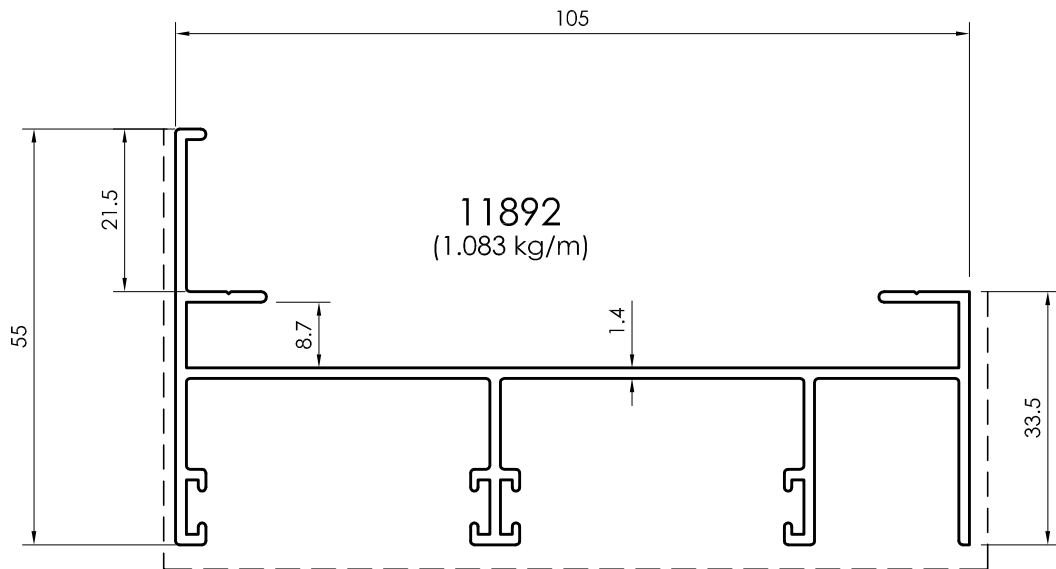
11730
(0.286 kg/m)
FOR GLASS 6MM & 8MM



11729
(0.242 kg/m)
FOR GLASS 28MM

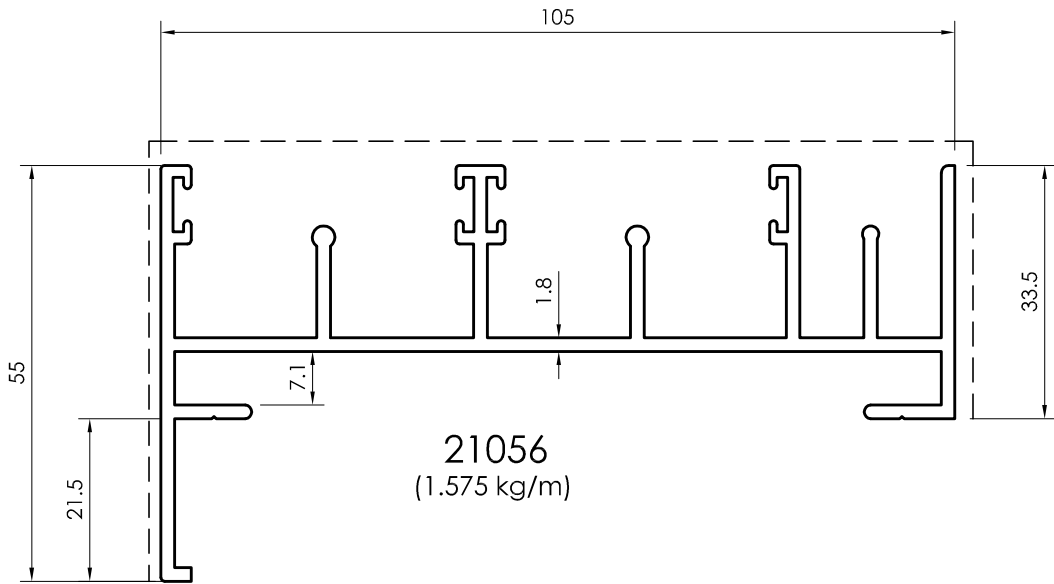
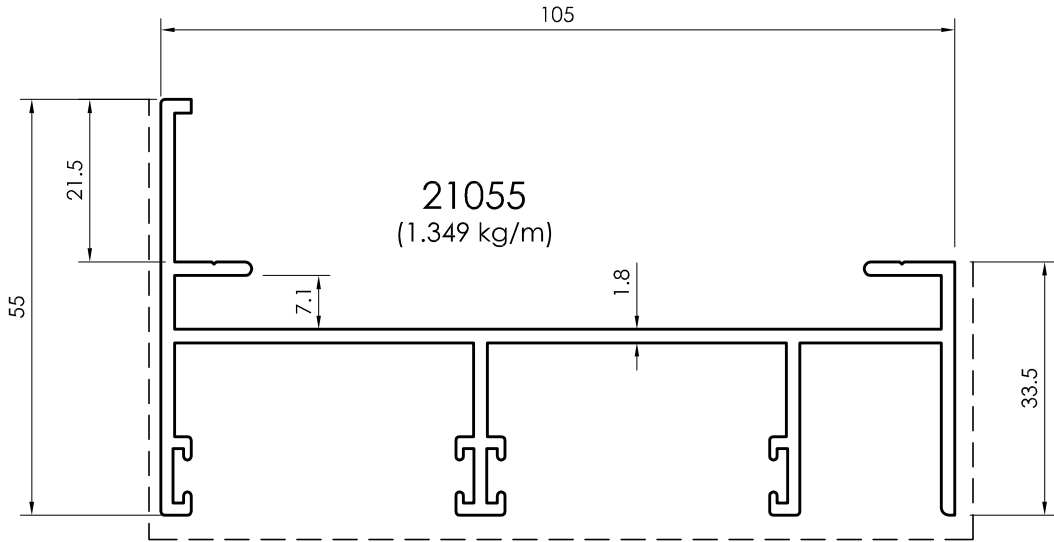
All dimensions in mm
----- Visible area

Frame Profiles - 105mm
Fly Screen Outside



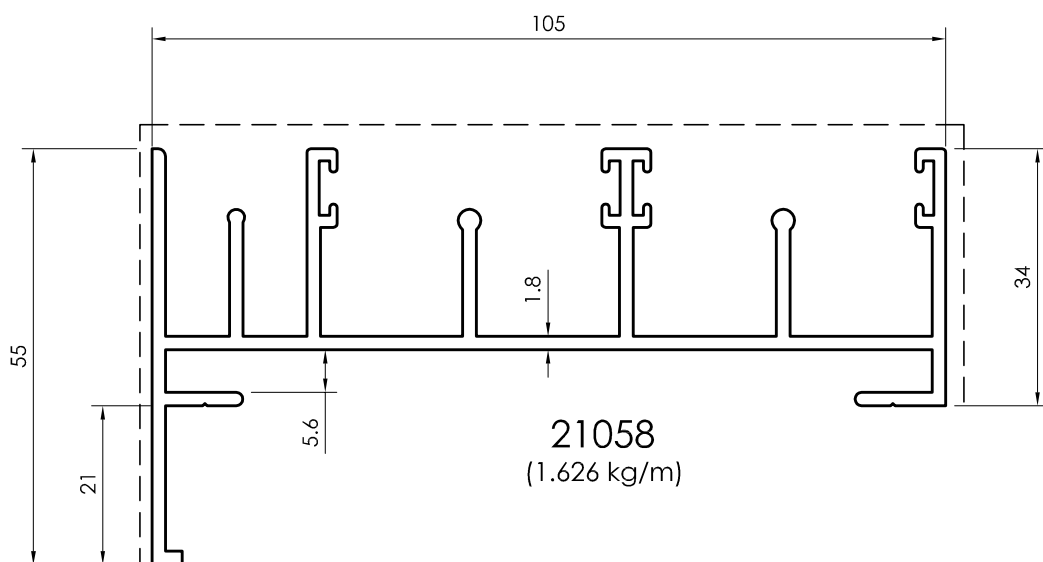
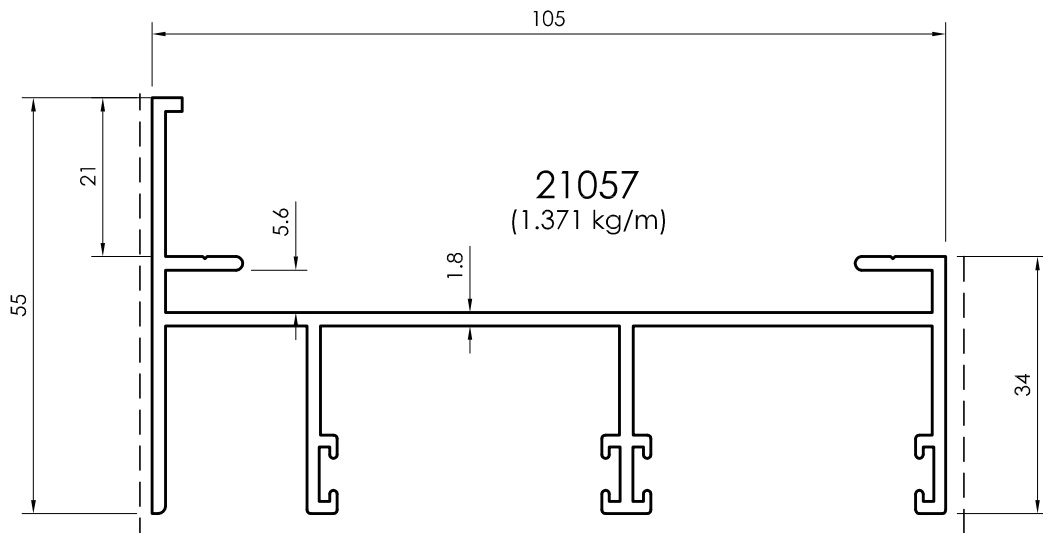
All dimensions in mm
Visible area_____

Frame Profiles - 105mm
Fly Screen Outside



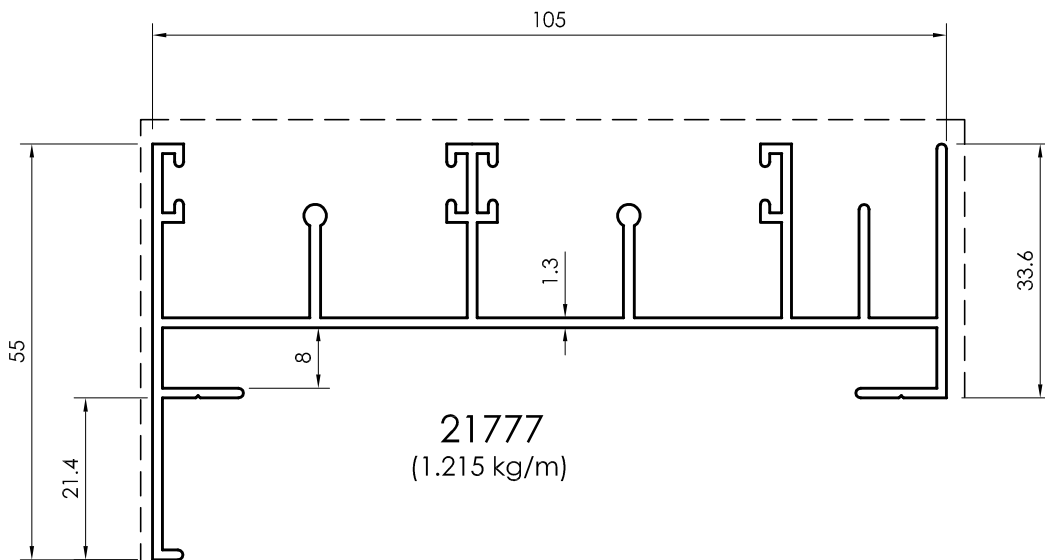
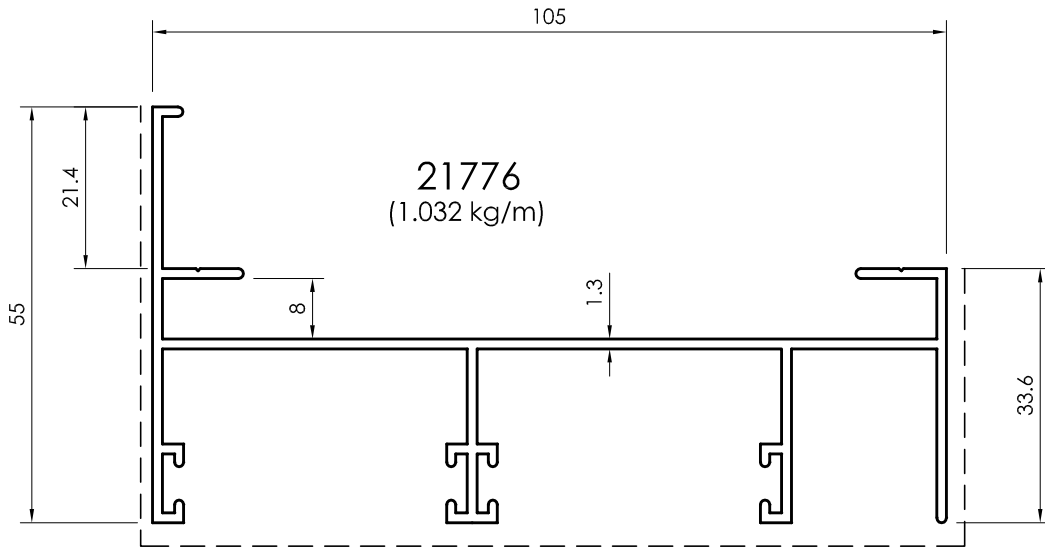
All dimensions in mm
----- Visible area

Frame Profiles - 105mm
Fly Screen Inside



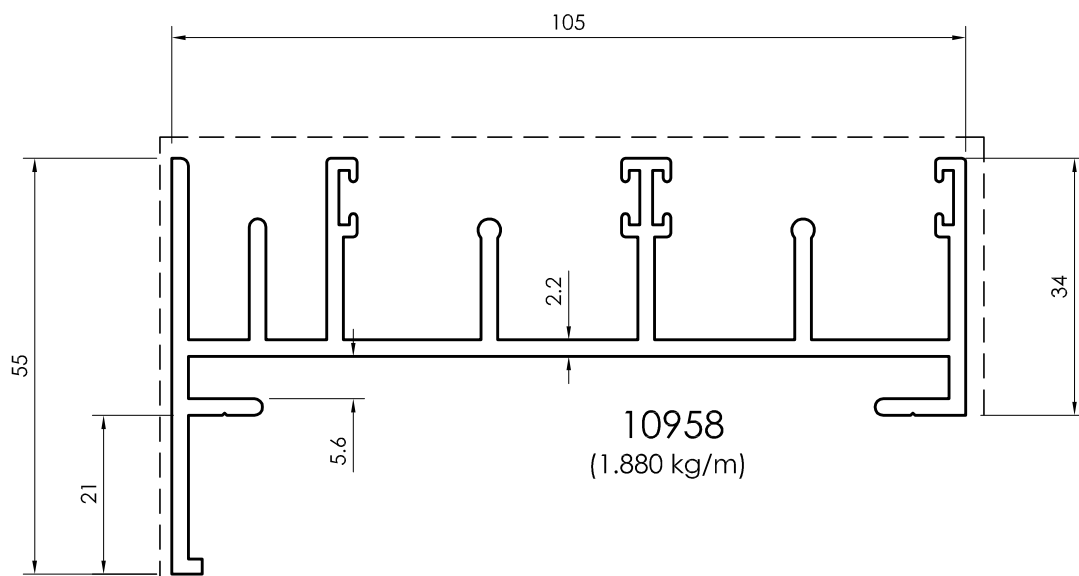
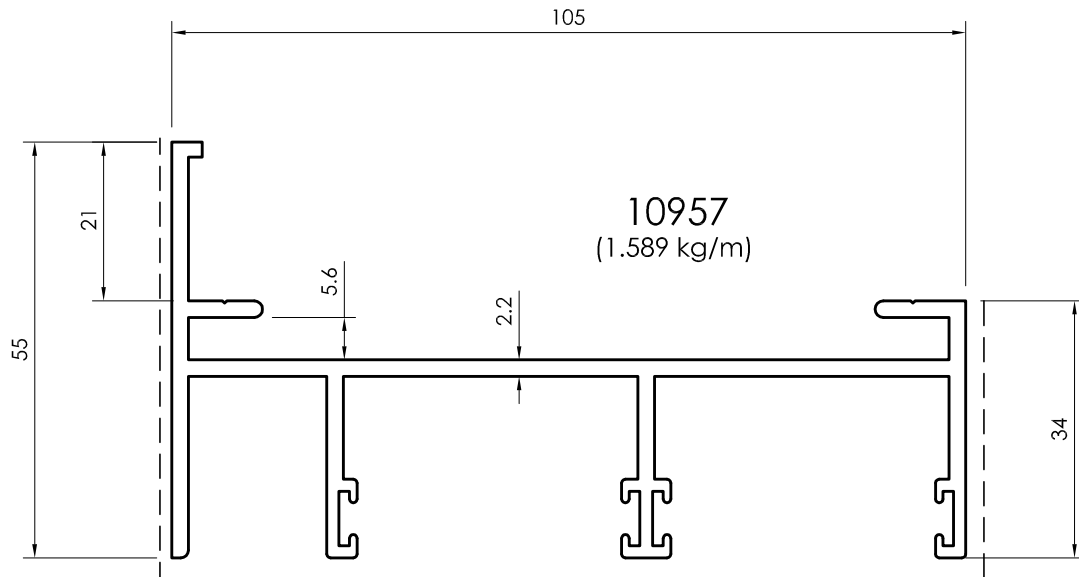
All dimensions in mm
Visible area_____

Frame Profiles - 105mm
Fly Screen Outside



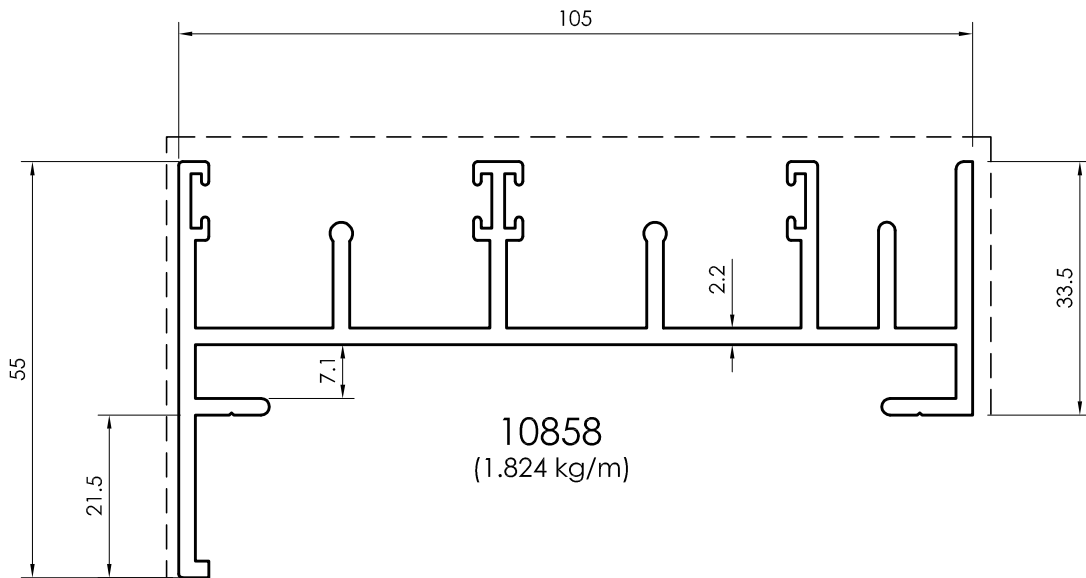
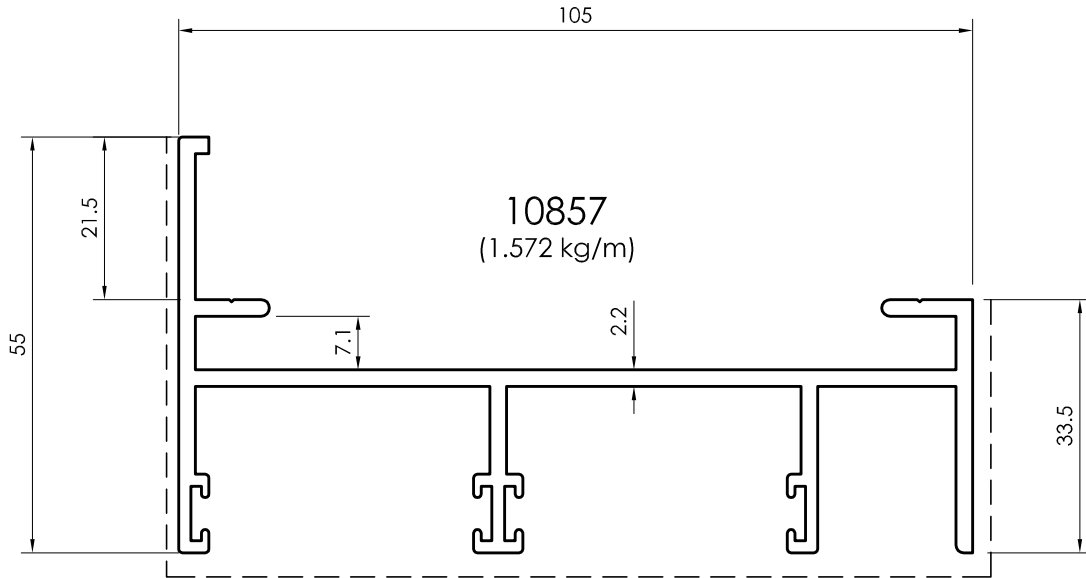
All dimensions in mm
----- Visible area

Frame Profiles - 105mm
Fly Screen Inside



All dimensions in mm
Visible area_____

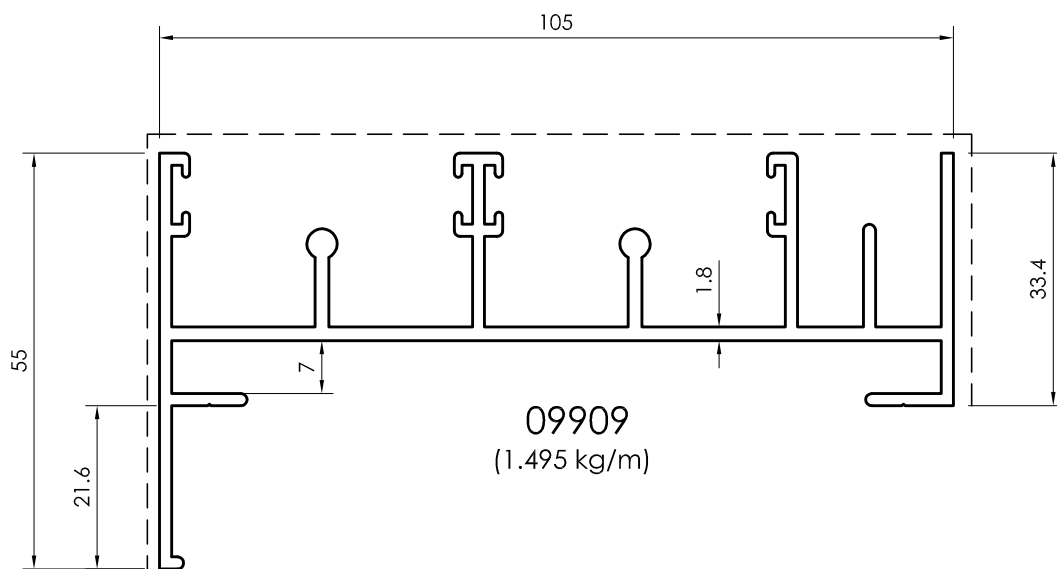
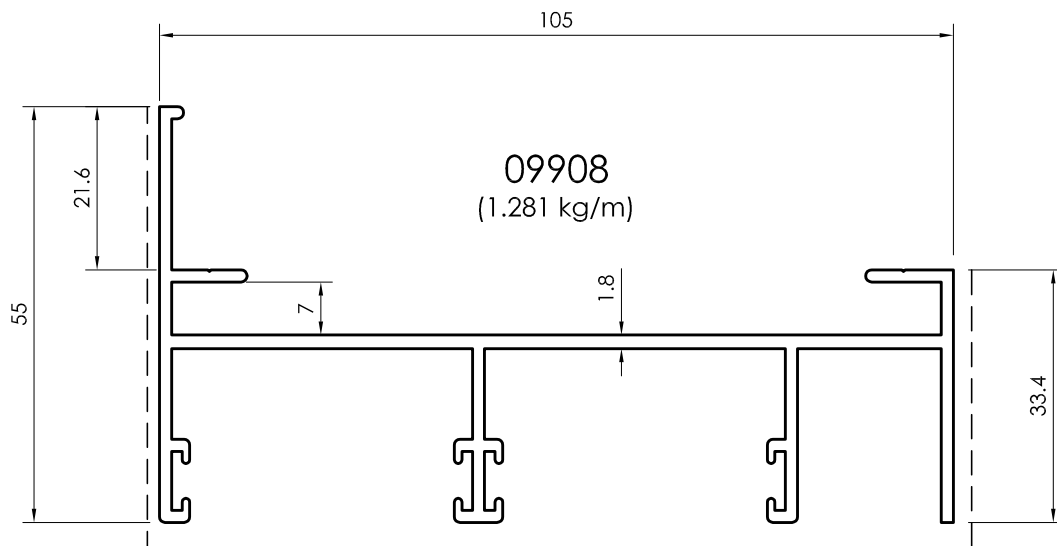
Frame Profiles - 105mm
Fly Screen Outside



All dimensions in mm
----- Visible area

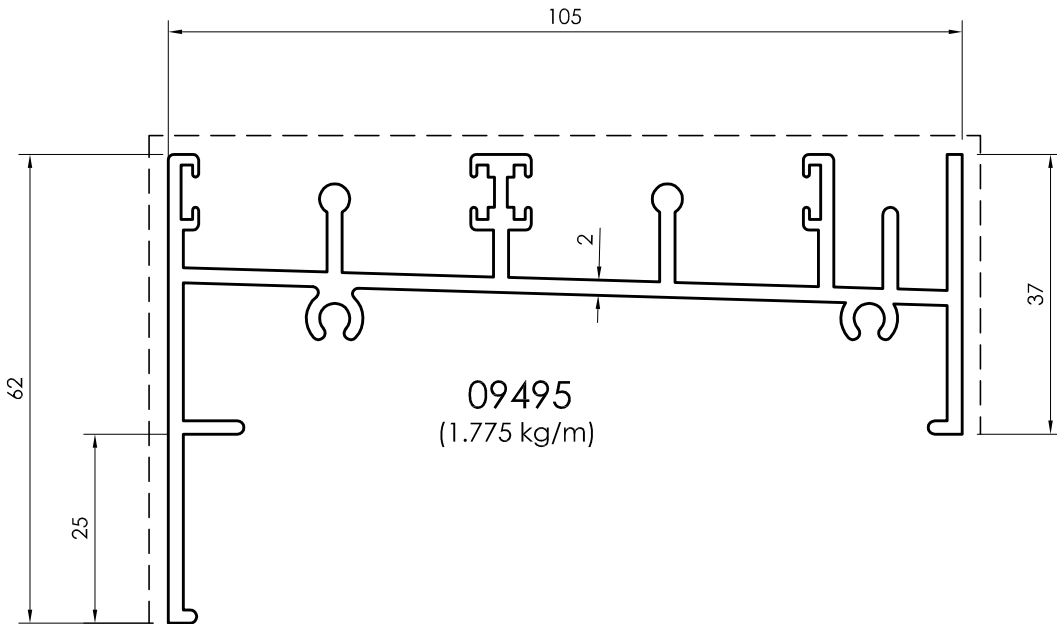
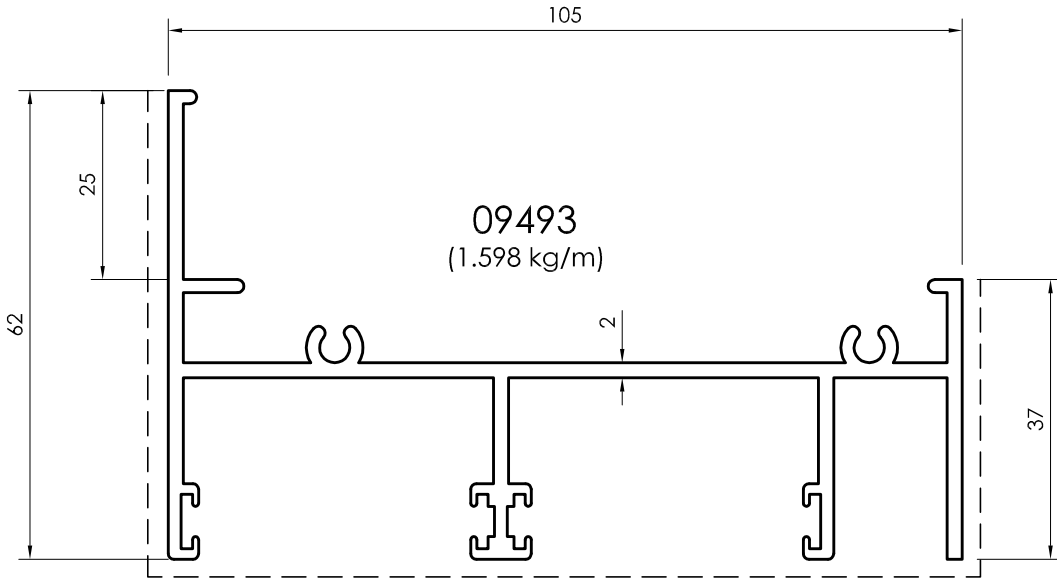
Frame Profiles - 105mm

Fly Screen Outside



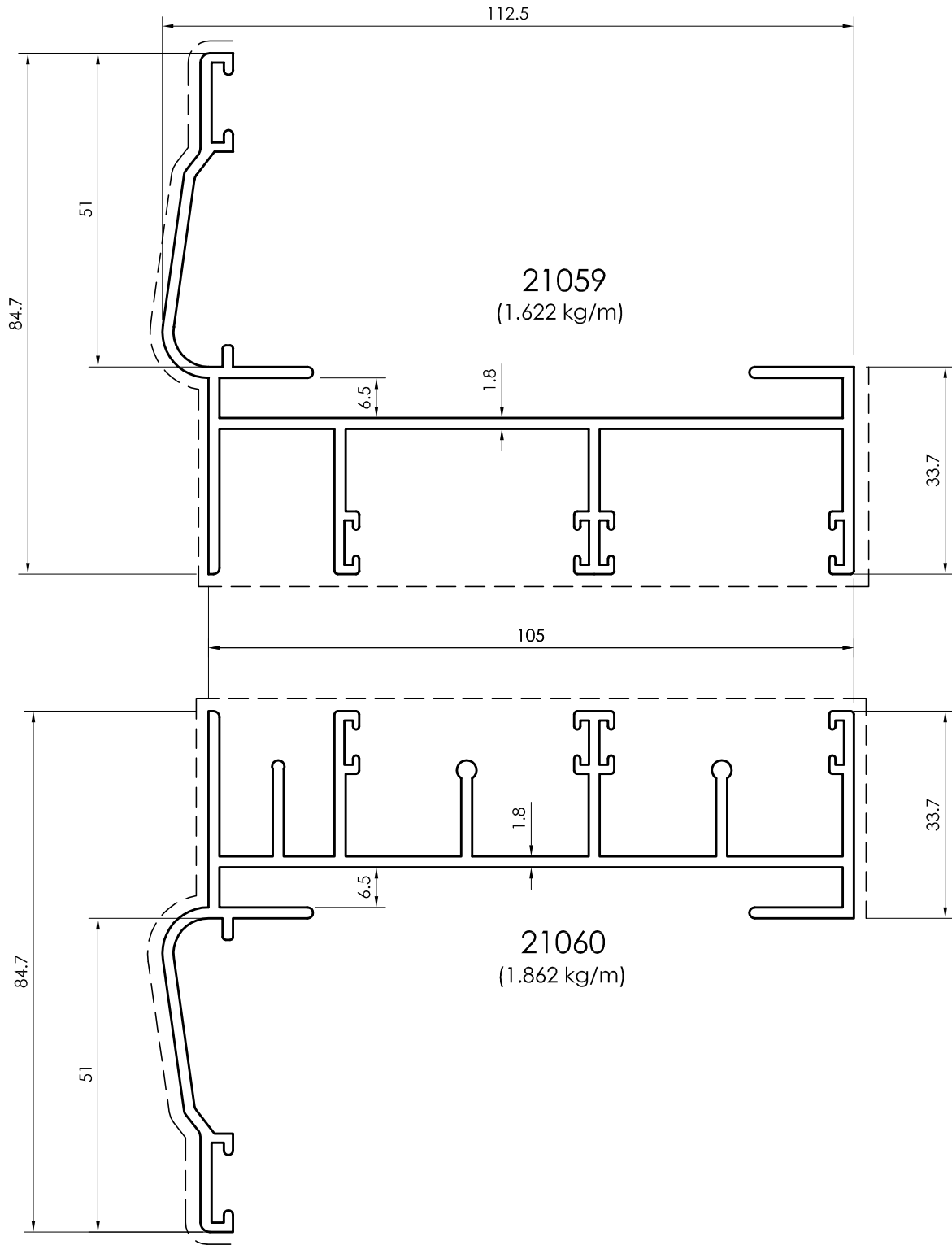
All dimensions in mm
Visible area_____

Frame Profiles - 105mm
Fly Screen Outside



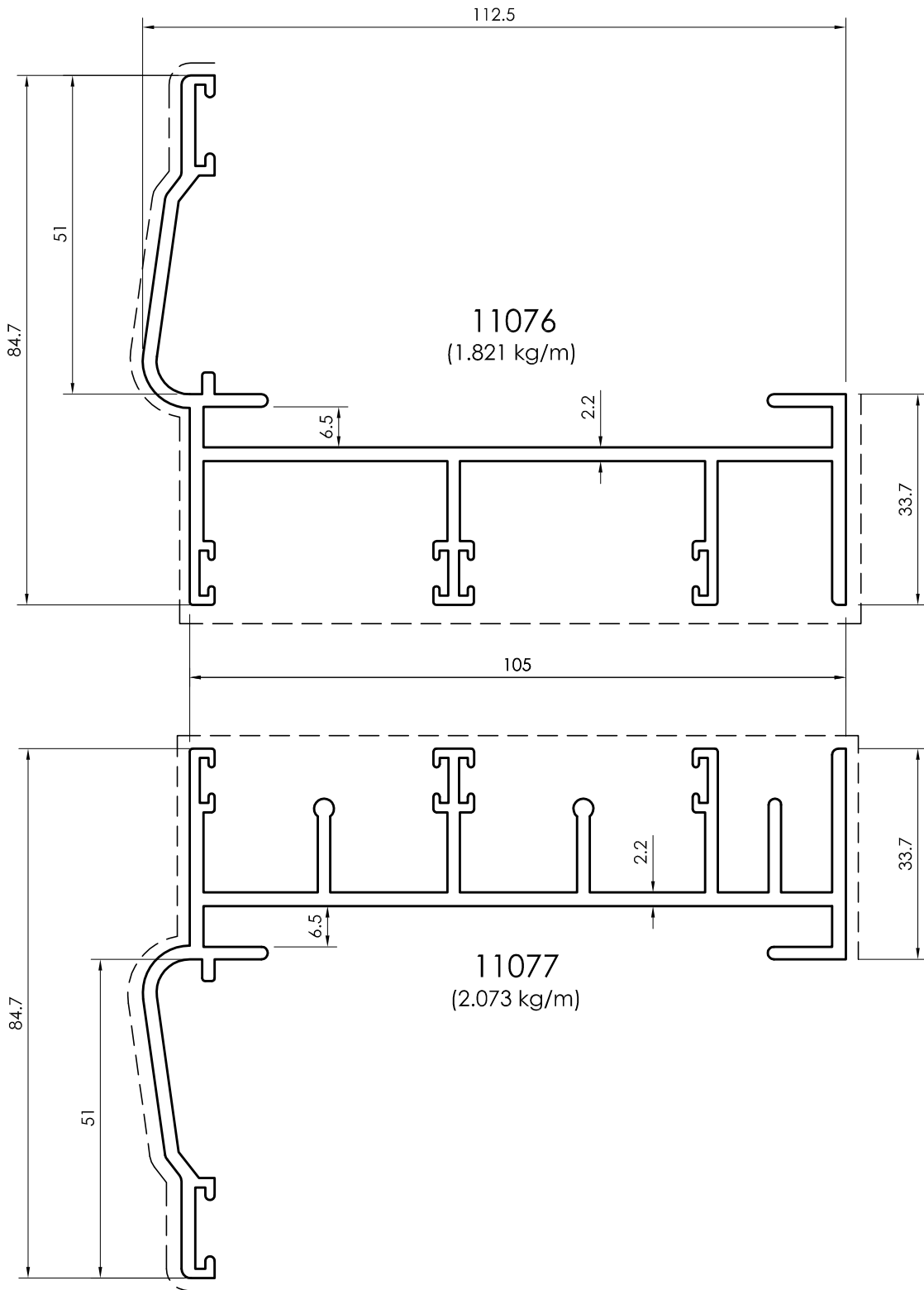
All dimensions in mm
----- Visible area

Frame Profiles - 105mm
Fly Screen Inside



All dimensions in mm
Visible area_____

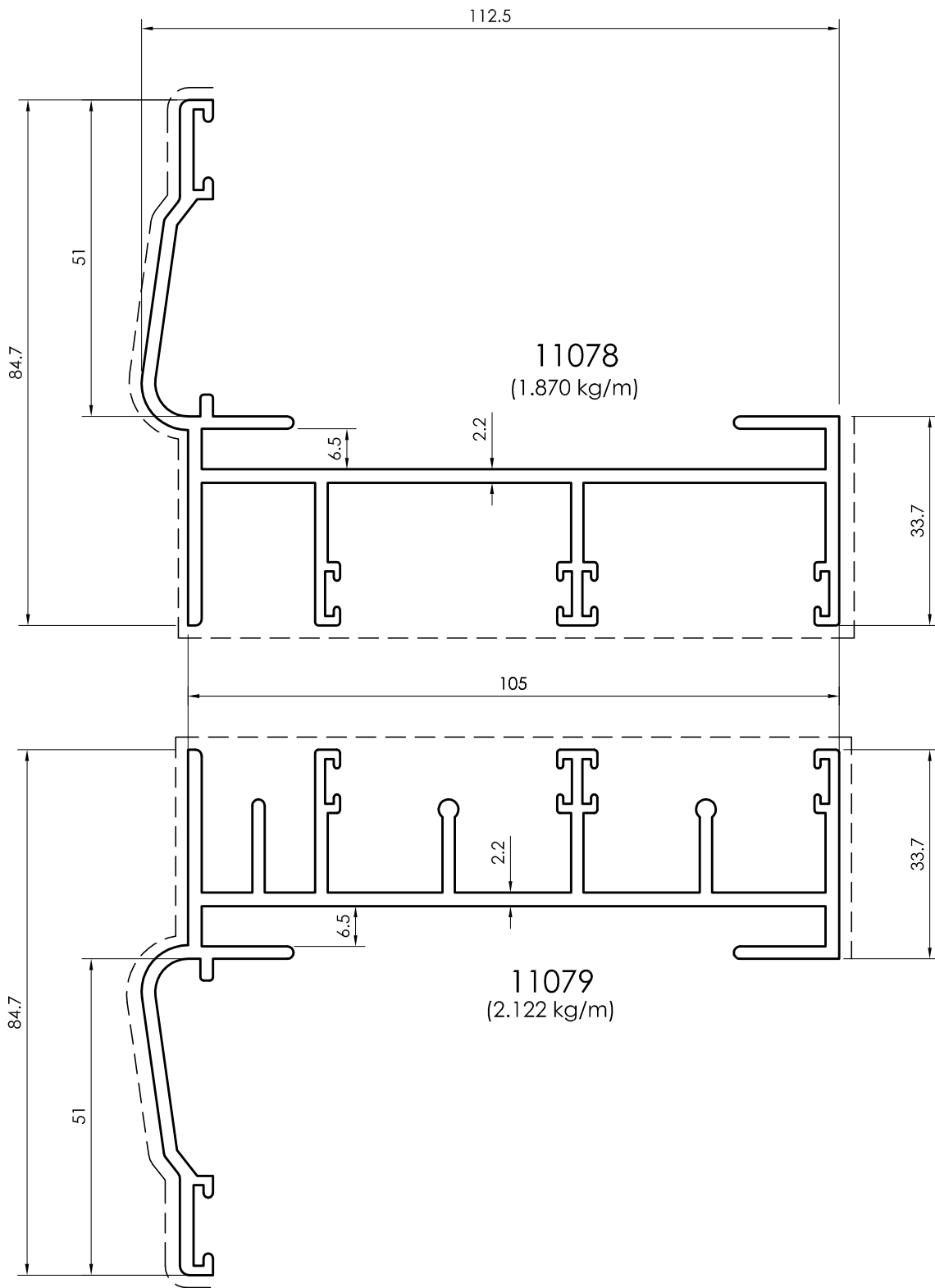
Frame Profiles - 105mm
Fly Screen Outside



All dimensions in mm
----- Visible area

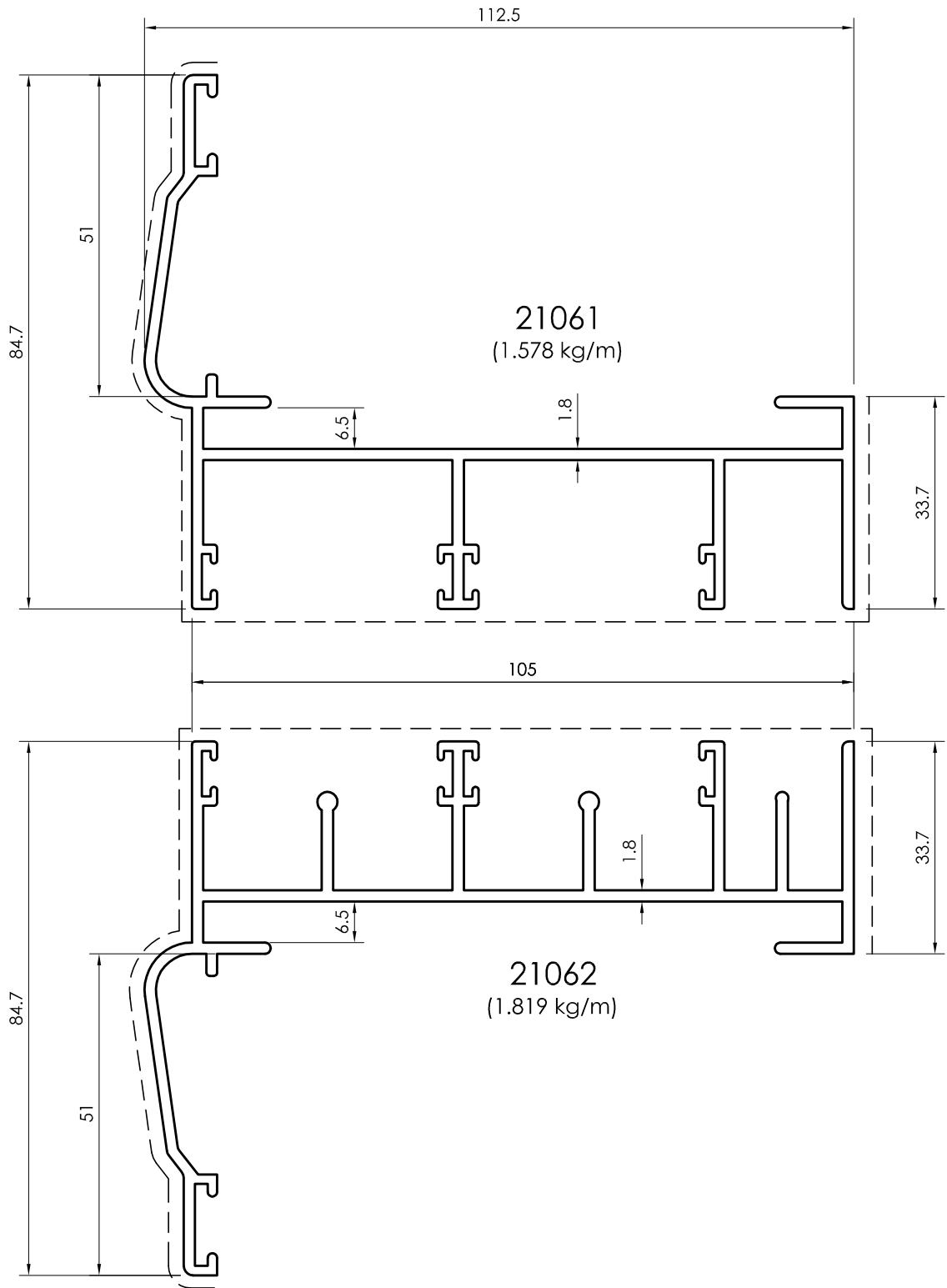
Frame Profiles - 105mm

Fly Screen Inside



All dimensions in mm
Visible area_____

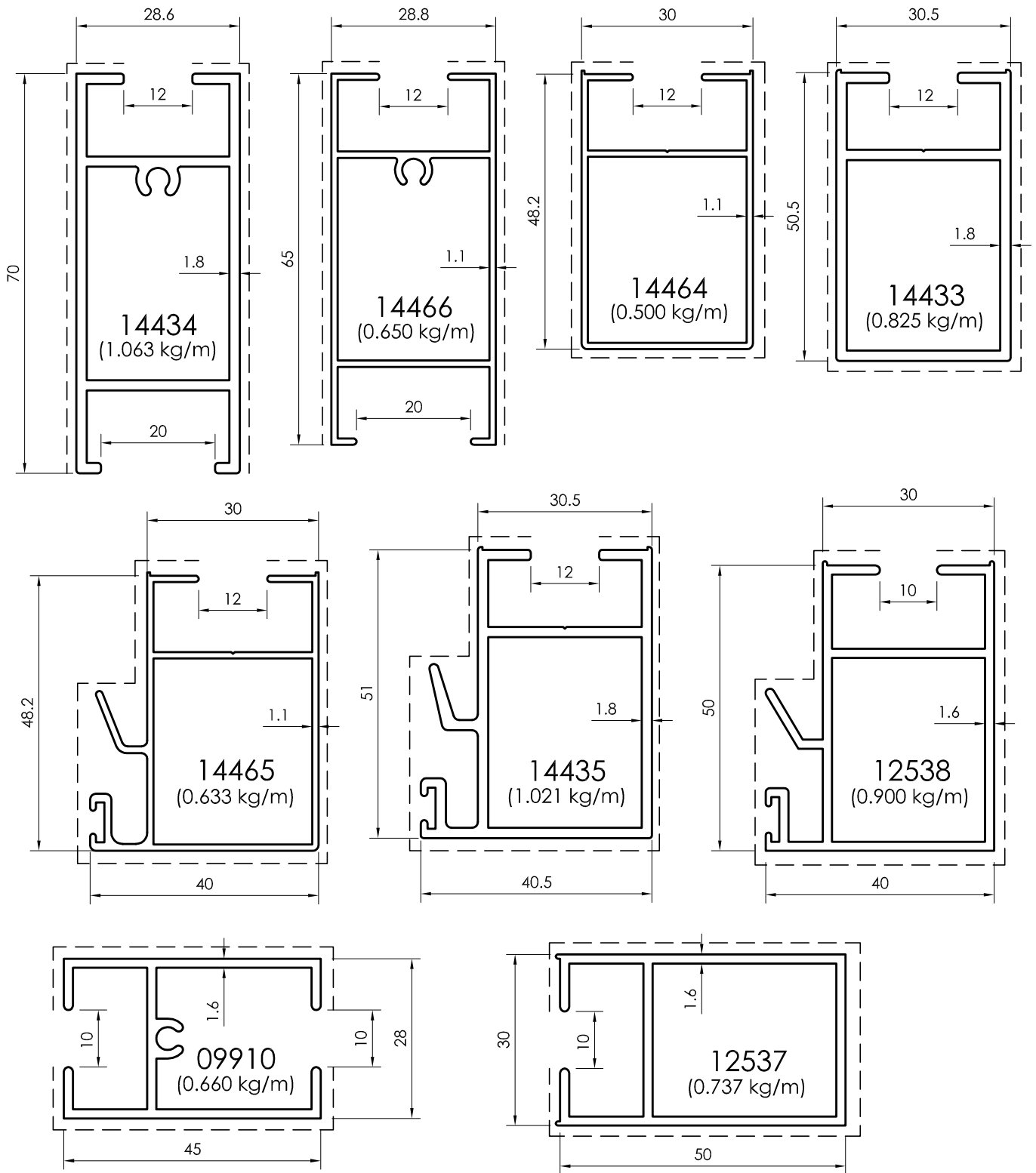
Frame Profiles - 105mm
Fly Screen Outside



All dimensions in mm
----- Visible area

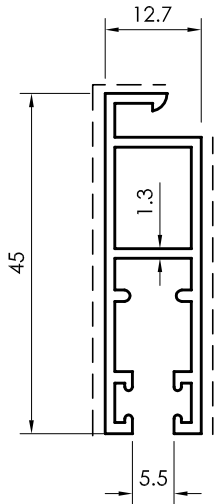
Sash / Interlock Profiles - 105mm

Used With Umbrellas Frame Profile

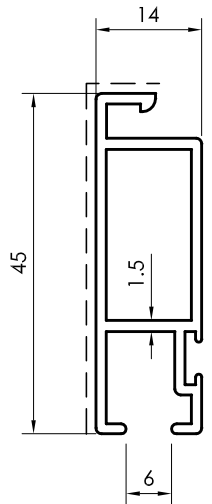


All dimensions in mm
Visible area_____

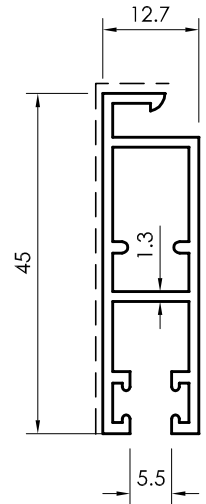
Fly screen / Angle



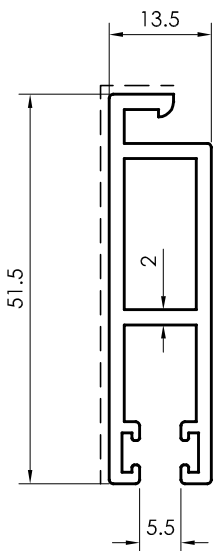
13441
(0.455 kg/m)



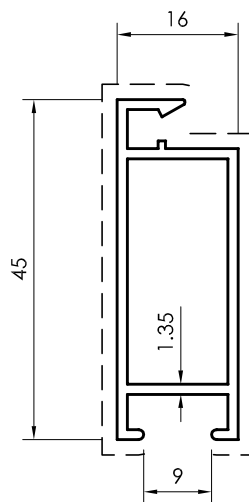
12745
(0.457 kg/m)



13711
(0.455 kg/m)



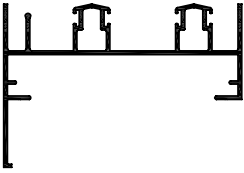
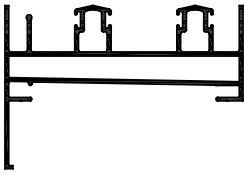
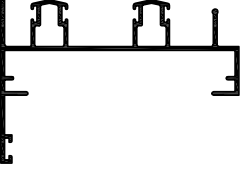
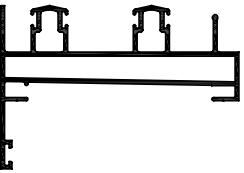
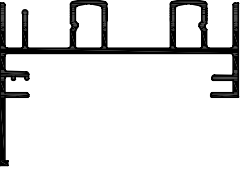
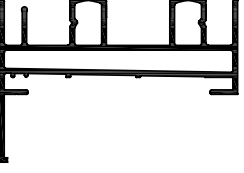
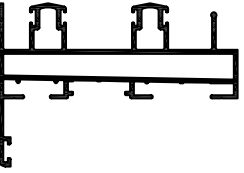
14521
(0.695 kg/m)

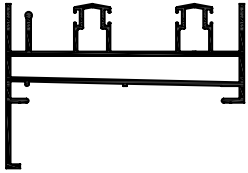
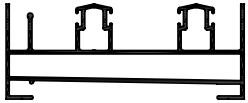
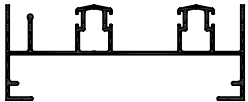
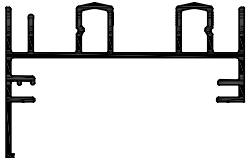

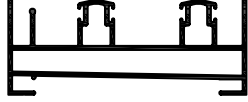
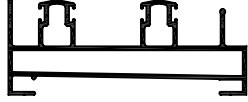


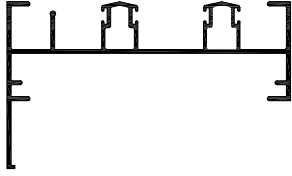
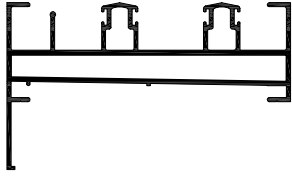
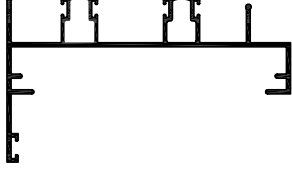
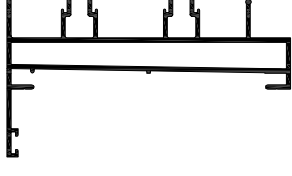
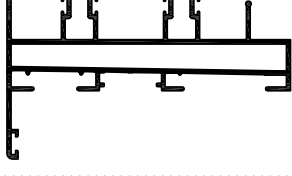
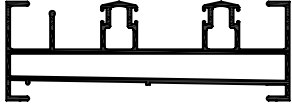
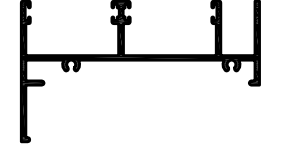
12724
(0.447 kg/m)
12724 used with non umbrella frame profiles

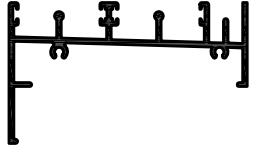
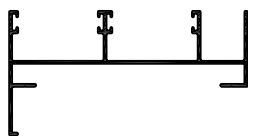
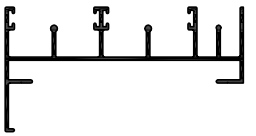
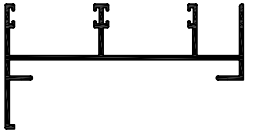
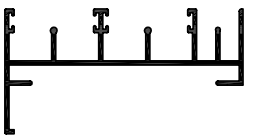
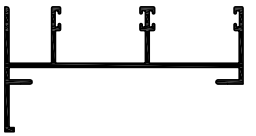
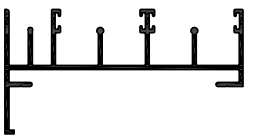
All dimensions in mm
----- Visible area

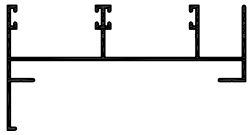
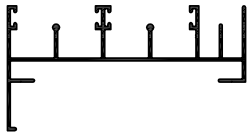
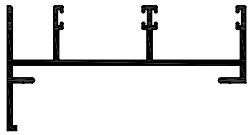

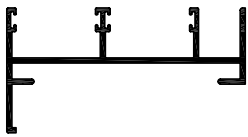
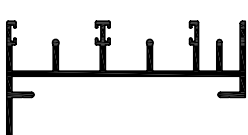
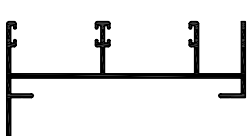
PROFILE LIST

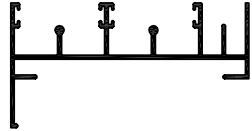
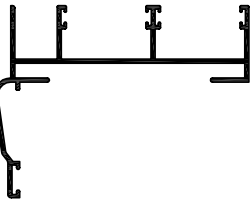
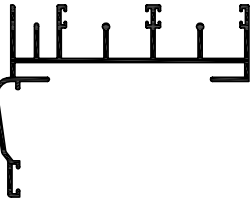
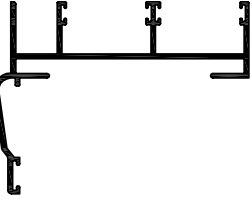
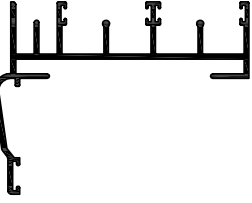
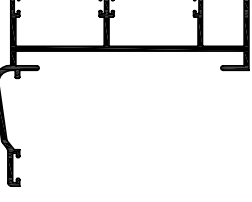
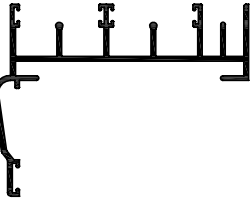
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
13009		14	1.676	91.687	14.936	16.266	2.957
13010		14	2.203	106.83	17.293	19.321	3.575
13444		15	1.611	80.919	16.30	13.133	3.322
13445		15	2.138	96.653	18.294	16.20	3.874
14517		26	2.188	19.508	119.718	3.892	21.189
14516		26	2.671	21.119	129.791	4.399	23.298
14352		16	2.295	98.22	19.436	16.462	4.203

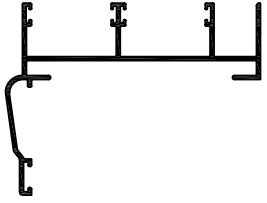
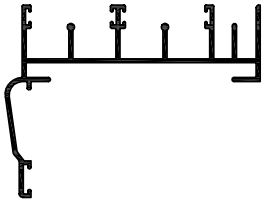
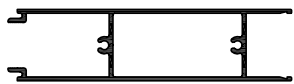
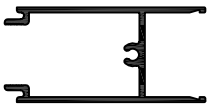
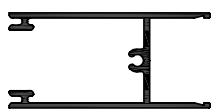
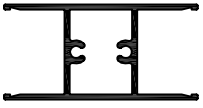
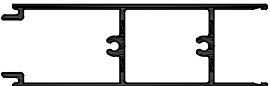
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
17006		16	2.360	20.225	118.882	4.251	21.041
15113		18	1.817	9.334	83.111	4.393	15.636
15112		18	1.429	6.536	72.236	2.711	13.519
16205		27	2.159	16.914	117.265	3.695	20.991
14518		27	2.489	12.451	113.075	5.422	21.415
14508		17	2.058	93.15	10.178	17.527	4.795
13905		17	1.963	83.061	9.616	14.891	4.421

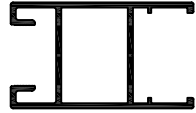
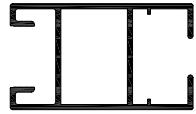
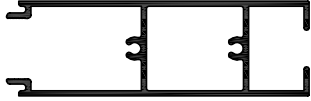
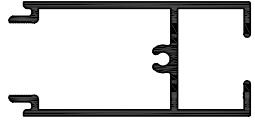
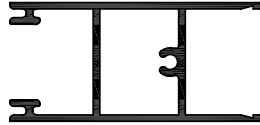

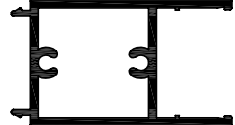
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
13023		19	1.951	148.68	17.939	22.333	3.435
13024		19	2.628	175.16	21.250	26.772	4.283
13442		20	1.859	127.74	19.088	17.325	3.787
13443		20	2.536	155.67	21.764	21.925	4.516
14351		21	2.710	157.70	23.258	22.194	4.929
16332		21	2.475	13.331	154.492	6.112	24.453
09493		41	1.598	9.479	86.304	2.419	15.778



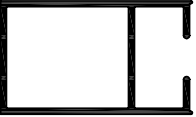
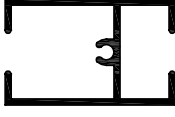
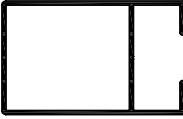

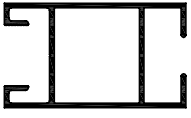
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
09495		41	1.775	10.095	92.692	2.327	16.583
11892		34	1.083	5.533	59.024	1.590	10.500
11893		34	1.269	5.854	65.603	1.650	11.974
21055		35	1.349	6.700	73.174	1.979	13081
21056		35	1.575	7.116	81.143	2.049	14.875
21057		36	1.371	6.994	72.972	2.116	12.622
21058		36	1.626	7.494	81.229	2.207	14.012

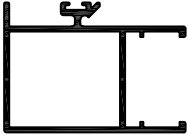
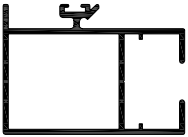
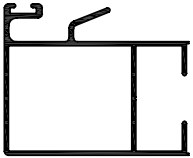
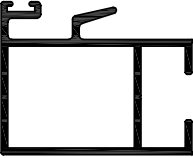
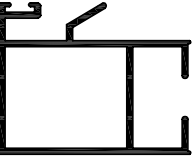
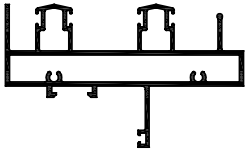
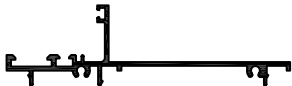
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
21776		37	1.032	5.400	55.770	1.566	9.873
21777		37	1.215	5.7100	61.985	1.616	11.269
10957		38	1.589	7.681	85.001	2.340	14.597
10958		38	1.880	8.259	94.294	2.445	16.162
10857		39	1.572	7.441	85.653	2.211	15.370
10858		39	1.824	7.923	94.533	2.294	17.379
09908		40	1.281	6.077	67.918	1.784	12.171

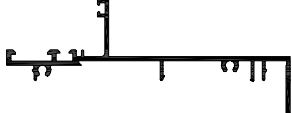
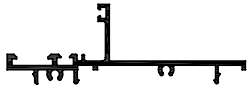
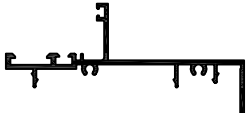
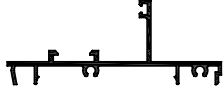
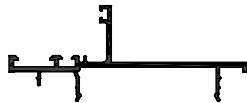

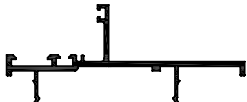
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
09909		40	1.495	6.376	74.949	1.832	13.675
21059		42	1.622	22.480	93.647	3.953	14.486
21060		42	1.862	23.850	101.643	4.079	15.922
11078		44	1.870	25.257	107.914	4.459	16.558
11079		44	2.122	26.775	116.359	4.604	18.073
11076		43	1.821	25.216	108.621	4.443	17.170
11077		43	2.073	26.705	119.019	4.581	19.441

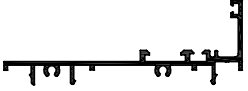
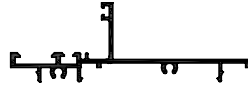
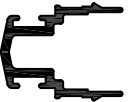
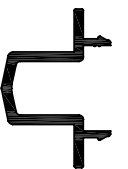



Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
21061		45	1.578	22.439	93.491	3.936	14.795
21062		45	1.819	23.778	103.301	4.056	16.934
13405		23	1.558	10.119	73.964	6.445	11.757
10485		24	0.852	5.424	10.386	3.455	3.067
11279		23	0.891	5.733	11.827	3.652	3.484
13025		24	0.934	5.333	8.382	3.397	2.619
13013		23	1.328	8.248	37.015	5.250	7.248




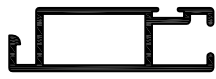

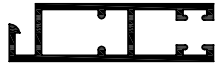

Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
13011		24	0.979	7.392	11.109	4.224	3.350
14655		22	1.047	7.654	13.612	4.374	4.388
14657		22	1.408	8.585	43.383	5.468	8.068
21227		22	0.932	5.768	13.068	3.673	3.574
13955		23	1.021	12.189	6.044	3.454	3.849
14519		28	1.272	9.718	16.260	5.552	4.575
14520		28	1.097	10.968	6.630	3.457	3.994

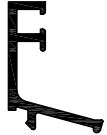
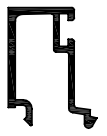
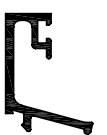



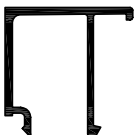
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
14434		46	1.063	17.825	5.331	4.807	3.728
14433		46	0.825	8.922	4.610	3.470	3.023
12537		46	0.737	4.006	7.848	2.670	3.063
09910		46	0.660	4.791	3.102	2.003	2.216
14464		46	0.500	2.792	5.024	1.861	2.042
14466		46	0.650	9.651	3.364	2.793	2.336
12740		22	0.913	12.561	6.558	4.165	3.801

Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
13012		24	1.019	9.138	12.572	4.112	3.722
14656		22	1.088	9.426	15.179	4.202	4.791
14465		46	0.633	4.545	6.203	2.212	2.250
14435		46	1.021	7.232	10.629	3.406	3.772
12538		46	0.900	6.238	9.364	2.944	3.323
13843		29	2.098	76.365	13.965	13.808	3.617
10493		32	1.057	51.459	1.608	7.525	0.648

Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
10993		32	1.181	68.644	2.528	10.809	0.963
10487		29	0.937	28.432	1.599	4.859	0.649
10994		30	1.044	39.903	2.437	7.343	0.936
11395		30	0.876	23.788	1.839	4.789	0.712
21112		30	1.010	1.955	32.537	0.780	5.730
22075		29	0.921	1.567	34.199	0.639	8.532
24186		31	1.042	2.086	33.340	0.825	5.801






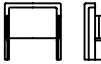

Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
21762		31	0.935	1.804	38.359	0.706	9.247
21662		31	0.843	1.518	25.410	0.622	4.300
10969		25	0.332	0.587	0.631	0.546	0.384
21111		25	0.413	1.232	0.721	0.703	0.580
10492		25	0.468	5.398	0.370	2.342	0.359
10486		25	0.282	1.070	0.575	0.730	0.557
10491		25	0.181	0.389	0.125	0.362	0.116

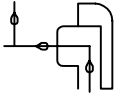


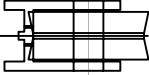
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
21110		28	0.521	2.736	2.807	0.942	0.975
10657		25	0.515	11.213	0.083	2.638	0.180
13441		47	0.455	0.418	3.102	0.625	1.361
12745		47	0.457	0.503	3.191	0.679	1.414
14521		47	0.695	0.689	5.992	0.969	2.306
13711		47	0.455	3.113	0.418	1.352	0.625
12724		47	0.447	3.387	0.685	1.487	0.797

Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
11321		33	0.251	0.241	0.696	0.170	0.497
10377		33	0.282	0.742	0.385	0.488	0.326
10464		33	0.271	0.812	0.254	0.597	0.186
11729		33	0.242	0.631	0.233	0.435	0.166
11730		33	0.286	0.795	0.697	0.481	0.453
11547		33	0.340	0.9412	1.480	0.522	0.614
10371		33	0.298	0.746	0.840	0.471	0.495

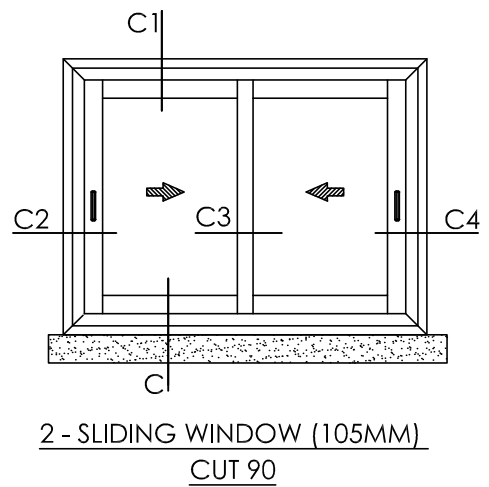
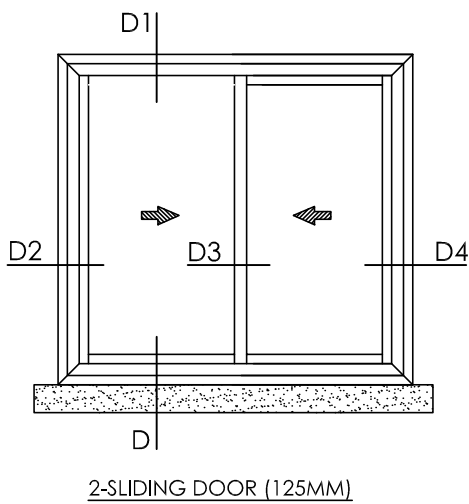
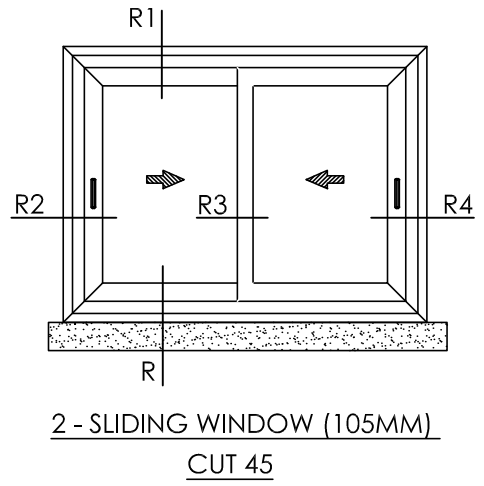
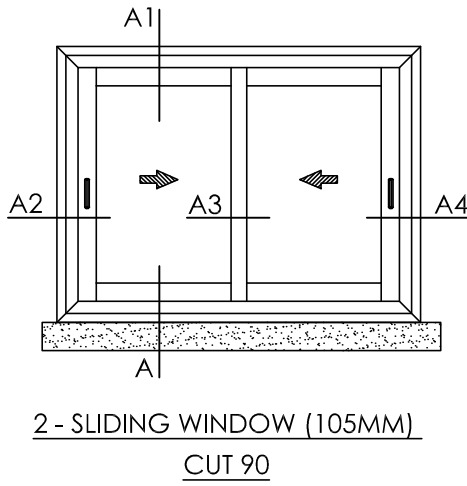
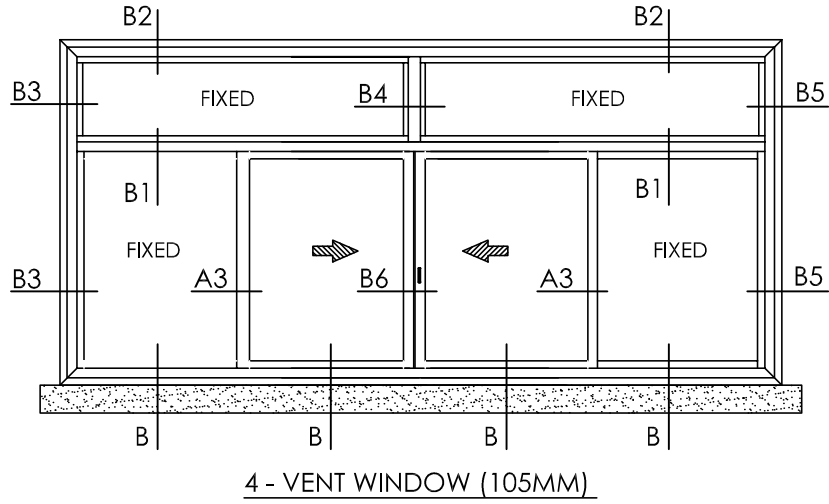
ACCESSORIES

Gasket / Accessories Reference	Section	Description	Unit
GE-G-002		FRONT GLAZING GASKET USED WITH THE FRAME & SASH PROFILE	Linear Meter
GE-G-010		GLAZING BEAD GASKET	Linear Meter
GE-G-011		GLAZING BEAD GASKET	Linear Meter
GE-G-008		FRONT GLAZING GASKET USED WITH SASH PROFILE	Linear Meter
BRUSH 6.0MM HIGH (6.5 - 6.8 WIDE)		10MM FIN TYPE BRUSH FLY SCREEN PROFILE	Linear Meter
BRUSH 8.0MM HIGH (6.5 - 6.8 WIDE)		8.0MM NORMAL BRUSH AND DUST PROOF PROFILE 10657	Linear Meter
BRUSH 3.0MM HIGH (6.5 - 6.8 WIDE)		3.0MM NORMAL BRUSH FOR SASH AND FOR INTERLOCK PROFILE	Linear Meter

Gasket / Accessories Reference	Section	Description	Unit
SCR-60		B 4.8 X 60 - DIN 7981 - A2 FOR TOP FIXED FRAME	Piece
SCR-45		B 4.2 X 45 - DIN 7981 - A2 FOR SASH CORNER ASSEMBLY	Piece
SCR-19		B 4.2 X 19 - DIN 7982 - A2 FOR LABYRINTH FASTENING	Piece
SCR-20		M 5 X 20 - DIN 965 - A2 FOR ROLLER FASTENING	Piece
END CAP BEC-13012 (BOTTOM END CAP)		PLASTIC END CAP TO COVER MILLED PART AT THE BOTTOM OF THE INTERLOCK PROFILE 13012	Piece
END CAP TEC-13012 (TOP END CAP)		PLASTIC END CAP TO COVER MILLED PART AT THE TOP OF THE INTERLOCK PROFILE 13012	Piece
SUC-120		DRAINAGE VALVE	Piece

Gasket / Accessories Reference	Section	Description	Unit
SUP-120		DEFLECTOR	Piece
FLUSH HANDLE		SUITABLE FLUSH TYPE HANDLE WITH LOCKING ARRANGEMENT (COUNTERPLATE + NIB)	Piece
HOS-503		3MM THICK HOLDING STRIP FOR FASTENING ROLLER ON SASH PROFILE USING 2 M5X20 SCREWS	Piece
NED-105		NEEDLE BEARING ROLLER HOUSED IN AN ALUMINIUM CHANNEL TO BE USED AT THE BOTTOM OF THE SASH PROFILE	Piece

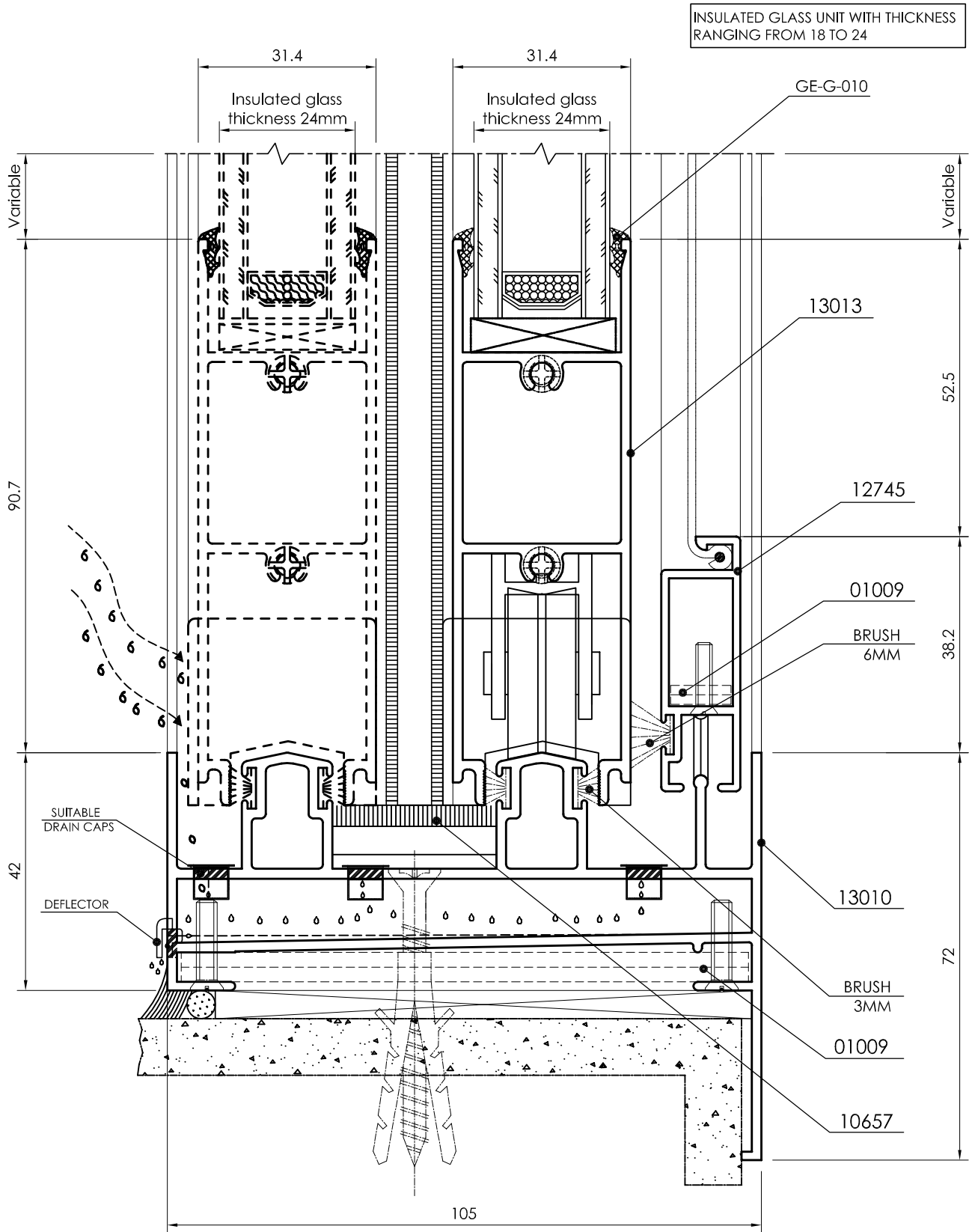
ASSEMBLY DRAWINGS



All dimensions in cross sections are shown in mm
Profile are not necessarily shown to scale

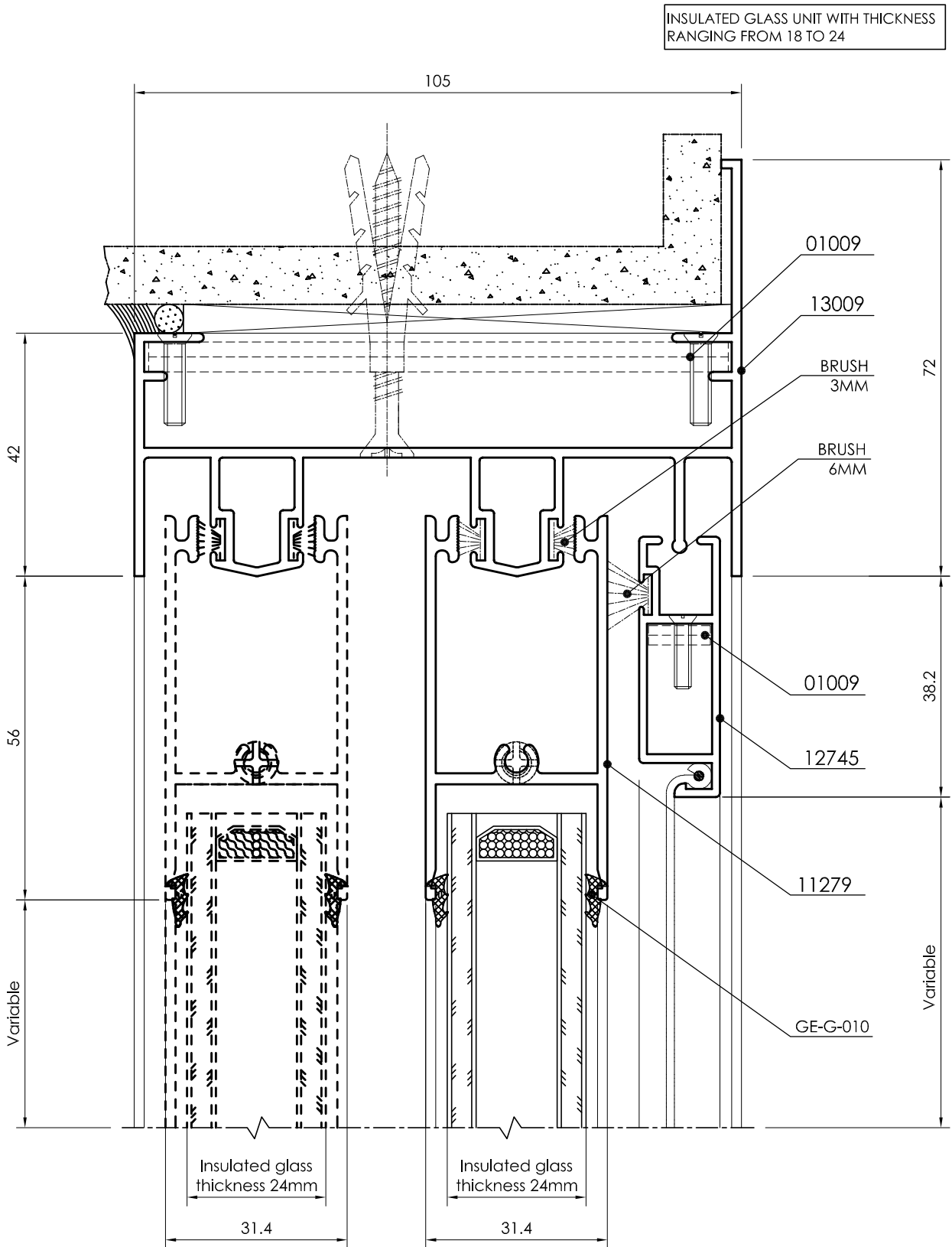
Bottom Window Section

Detail - A



Top Window Section

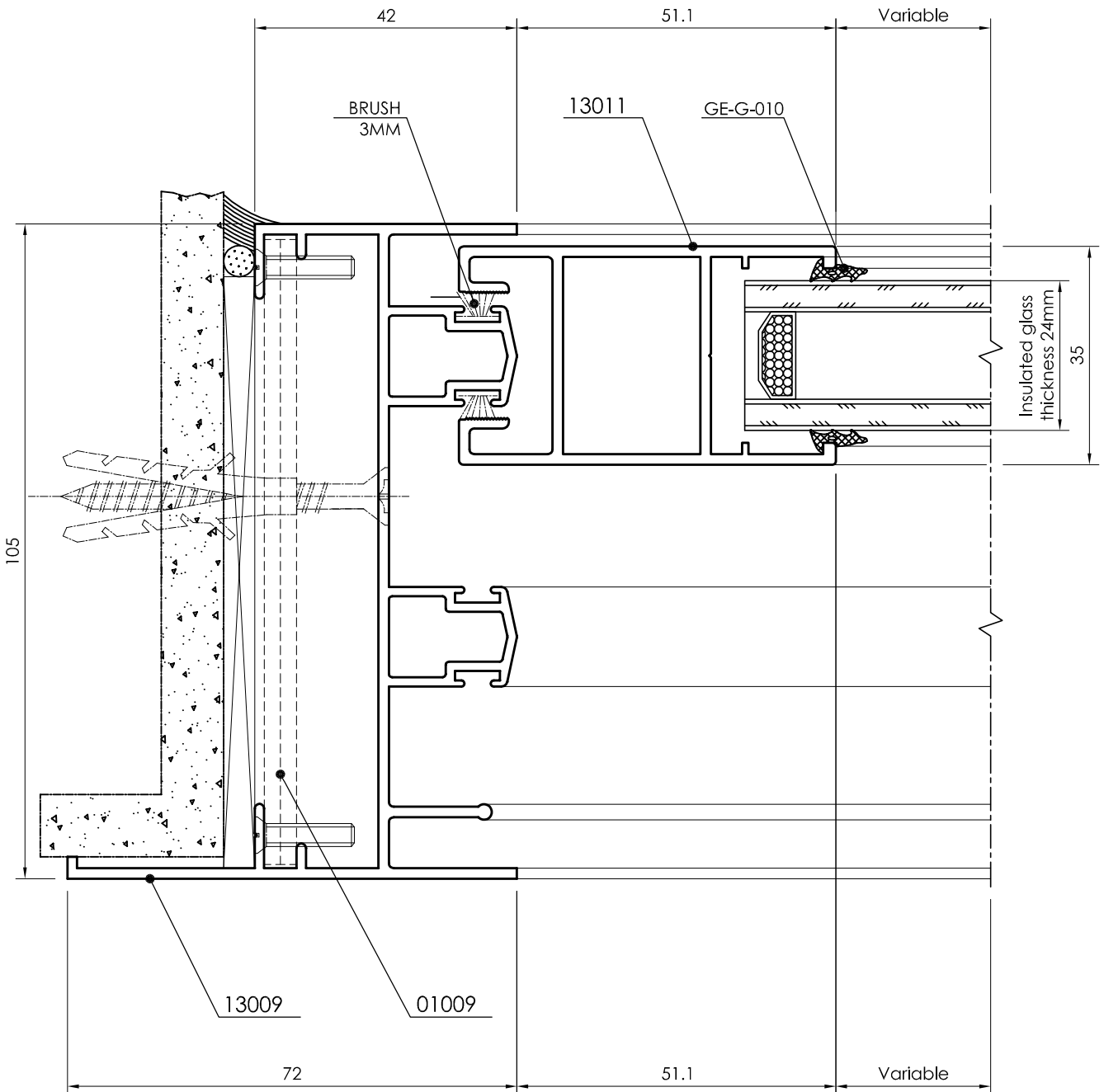
Detail - A1



Left Window Section

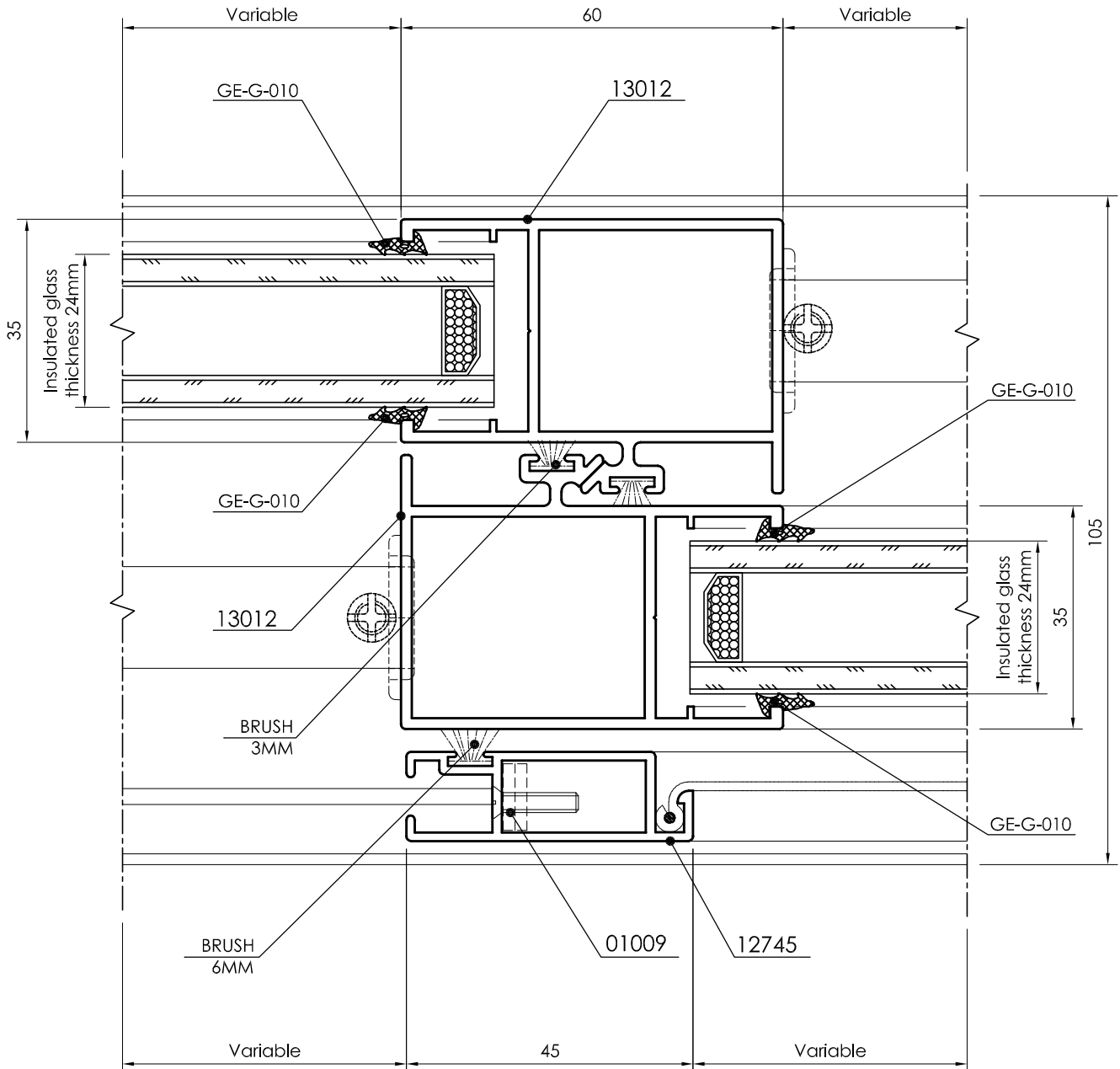
Detail - A2

INSULATED GLASS UNIT WITH THICKNESS RANGING FROM 18 TO 24



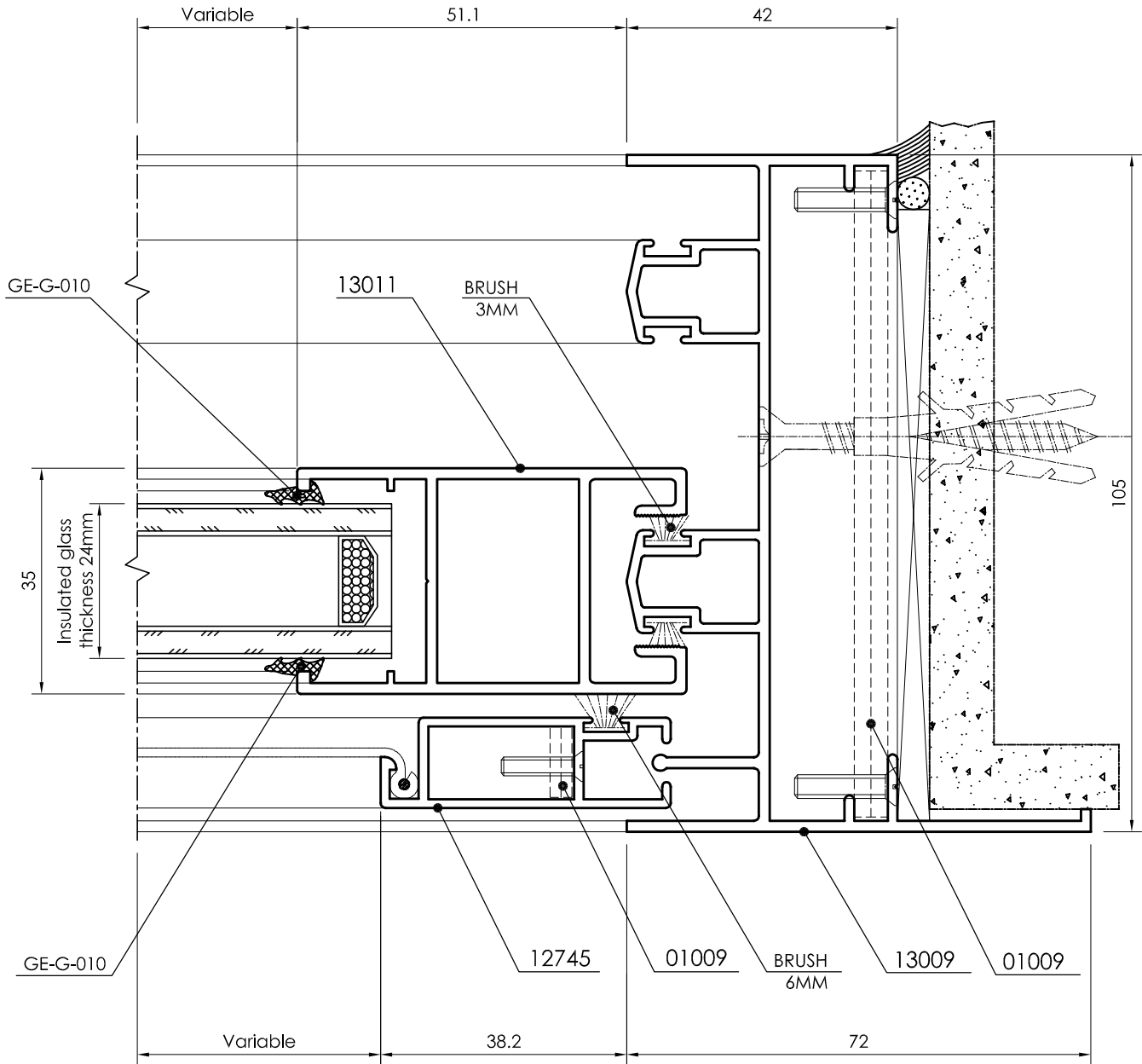
Interlock Section
Detail - A3

INSULATED GLASS UNIT WITH THICKNESS RANGING FROM 18 TO 24



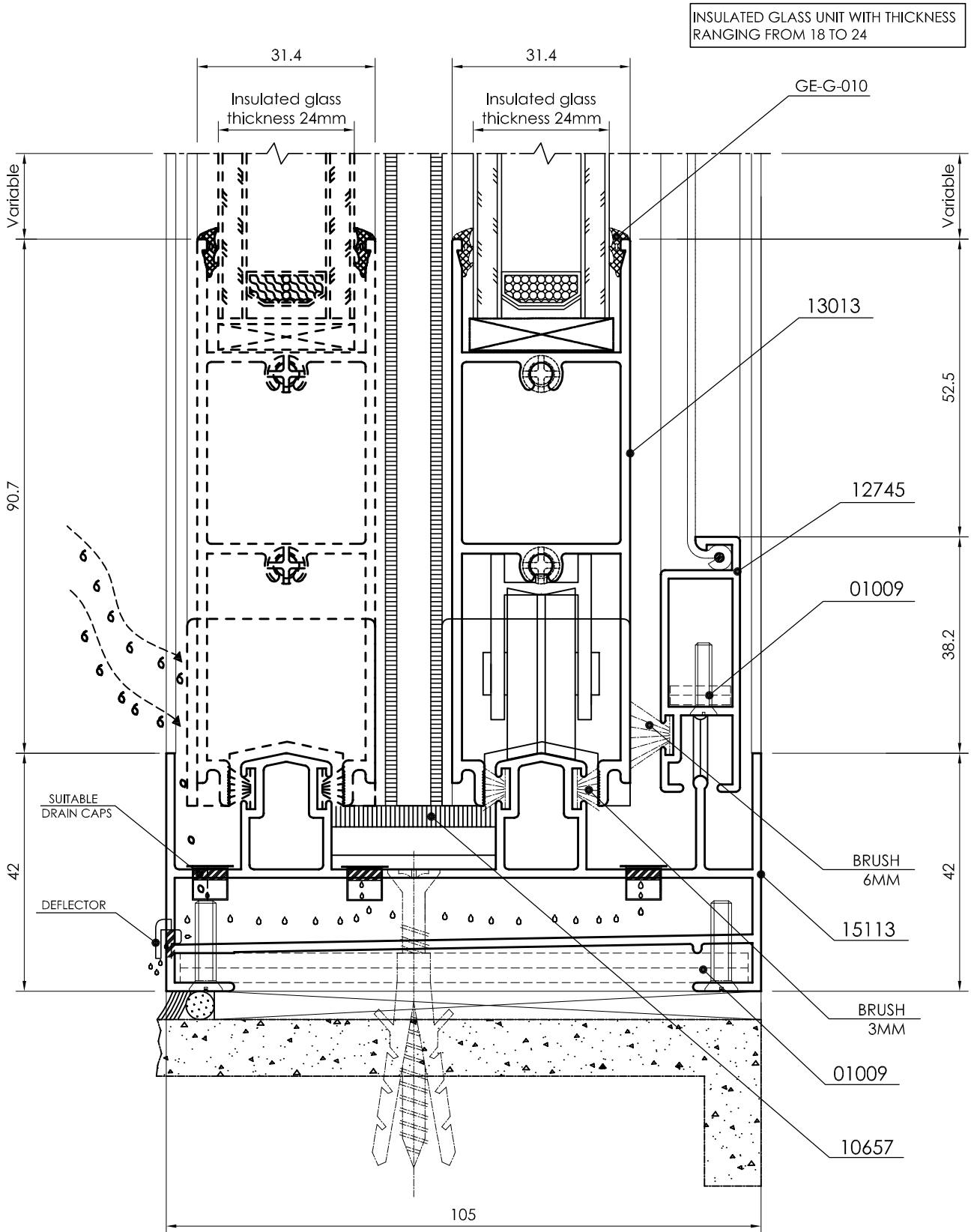
Right Window Section

Detail - A4



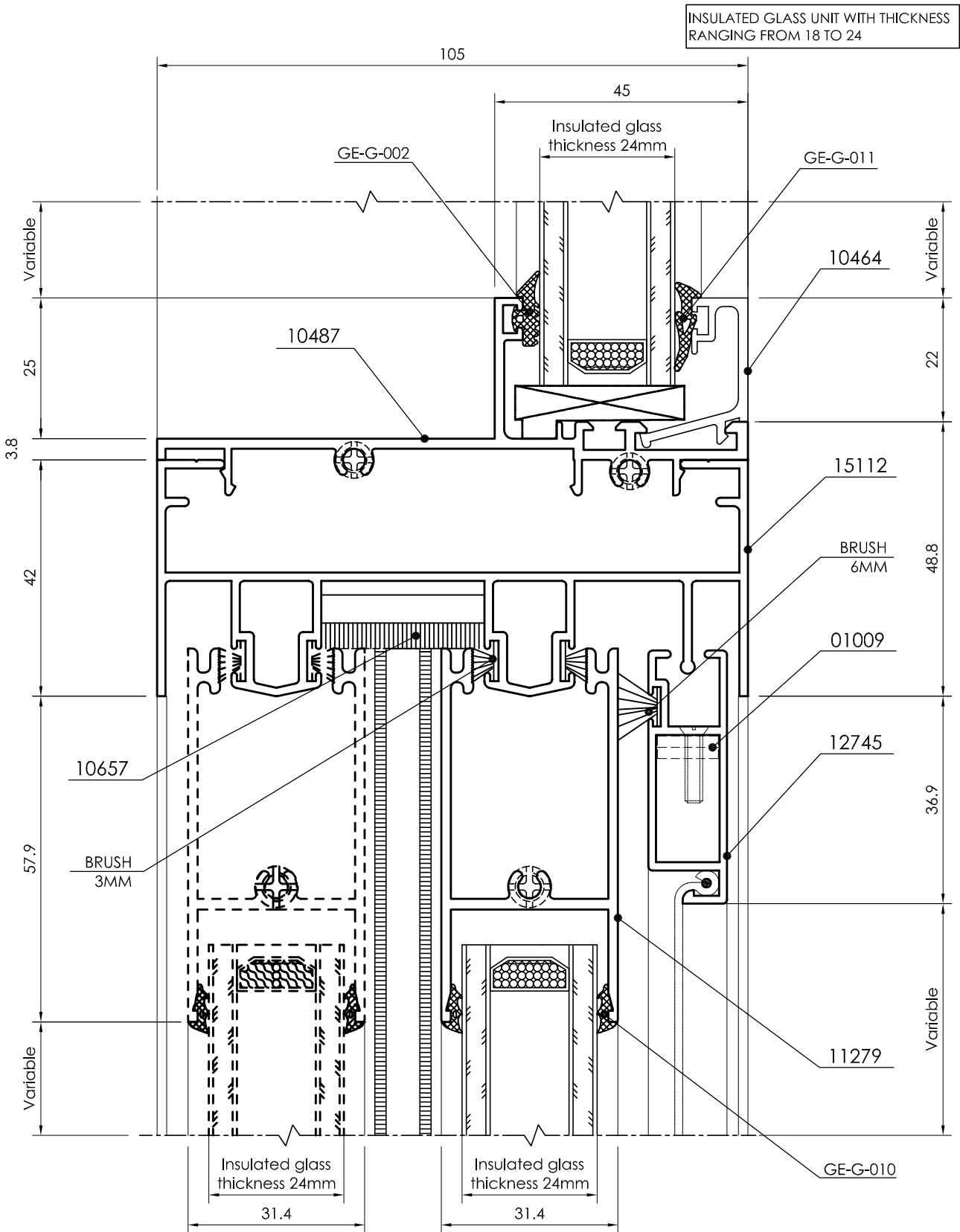
Bottom Window Section

Detail - B



Fixed Section

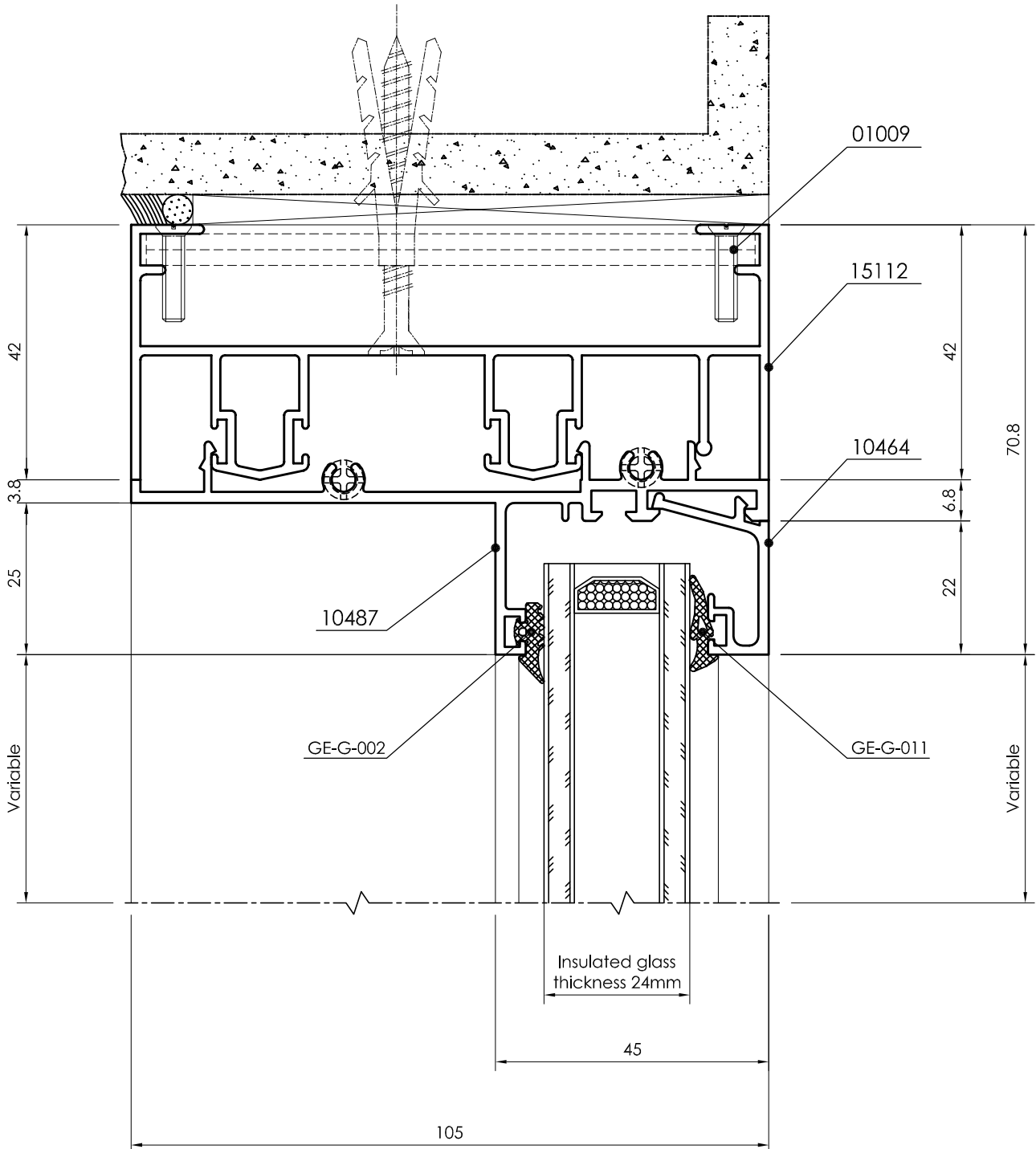
Detail - B1



Top Fixed Section

Detail - B2

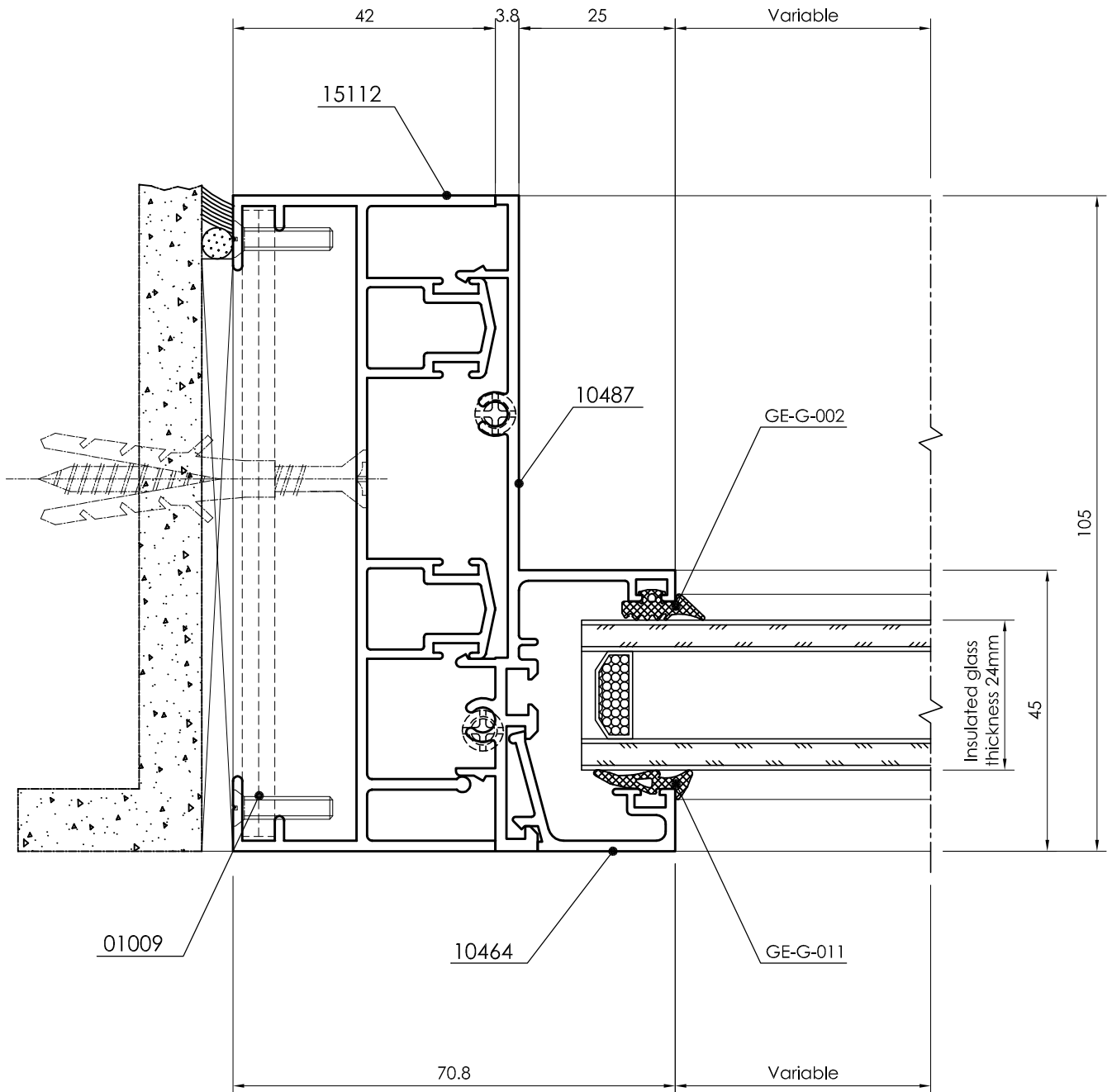
INSULATED GLASS UNIT WITH THICKNESS RANGING FROM 18 TO 24



Left Fixed Section

Detail - B3

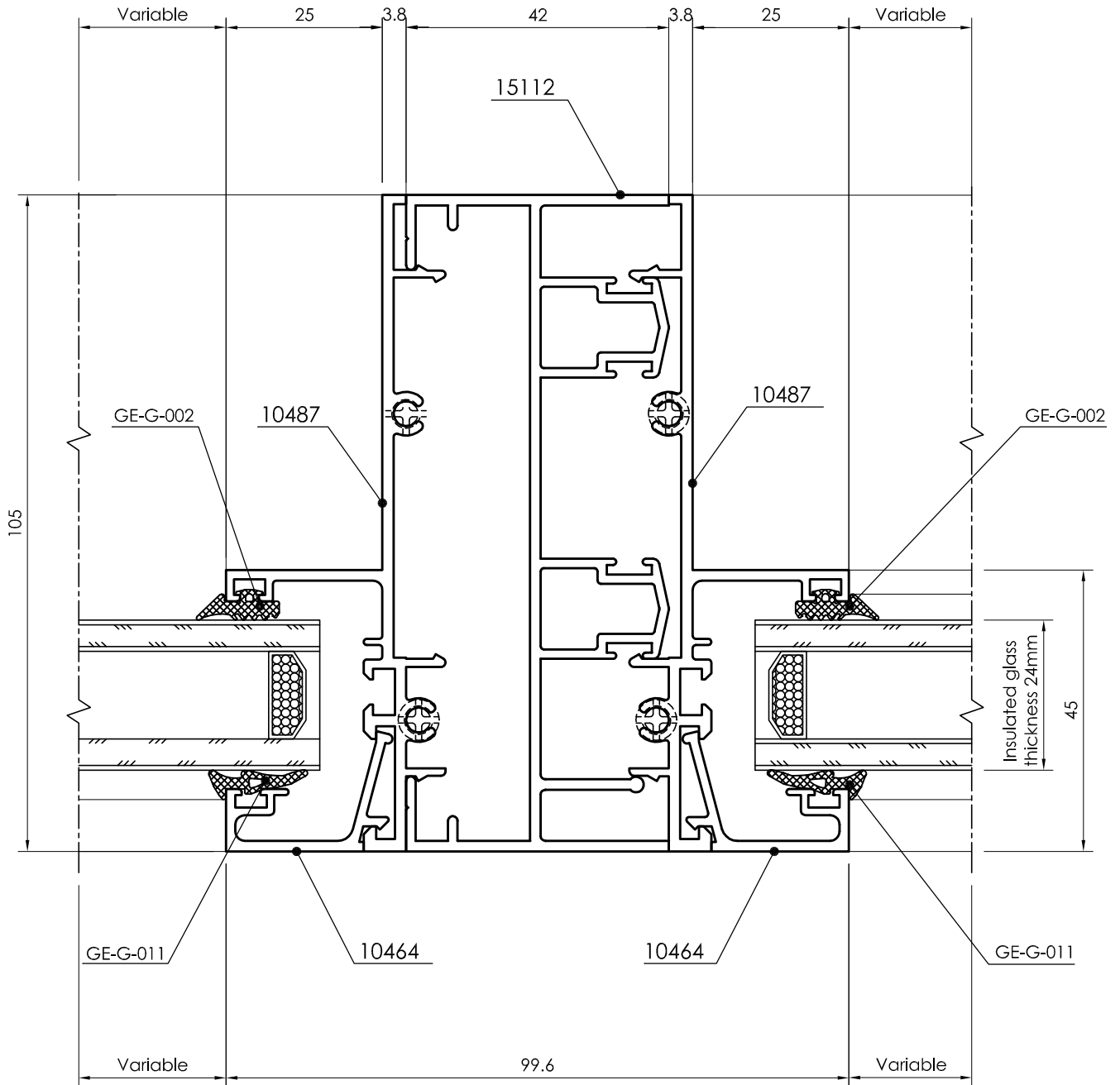
INSULATED GLASS UNIT WITH THICKNESS RANGING FROM 18 TO 24



Left Fixed Section

Detail - B4

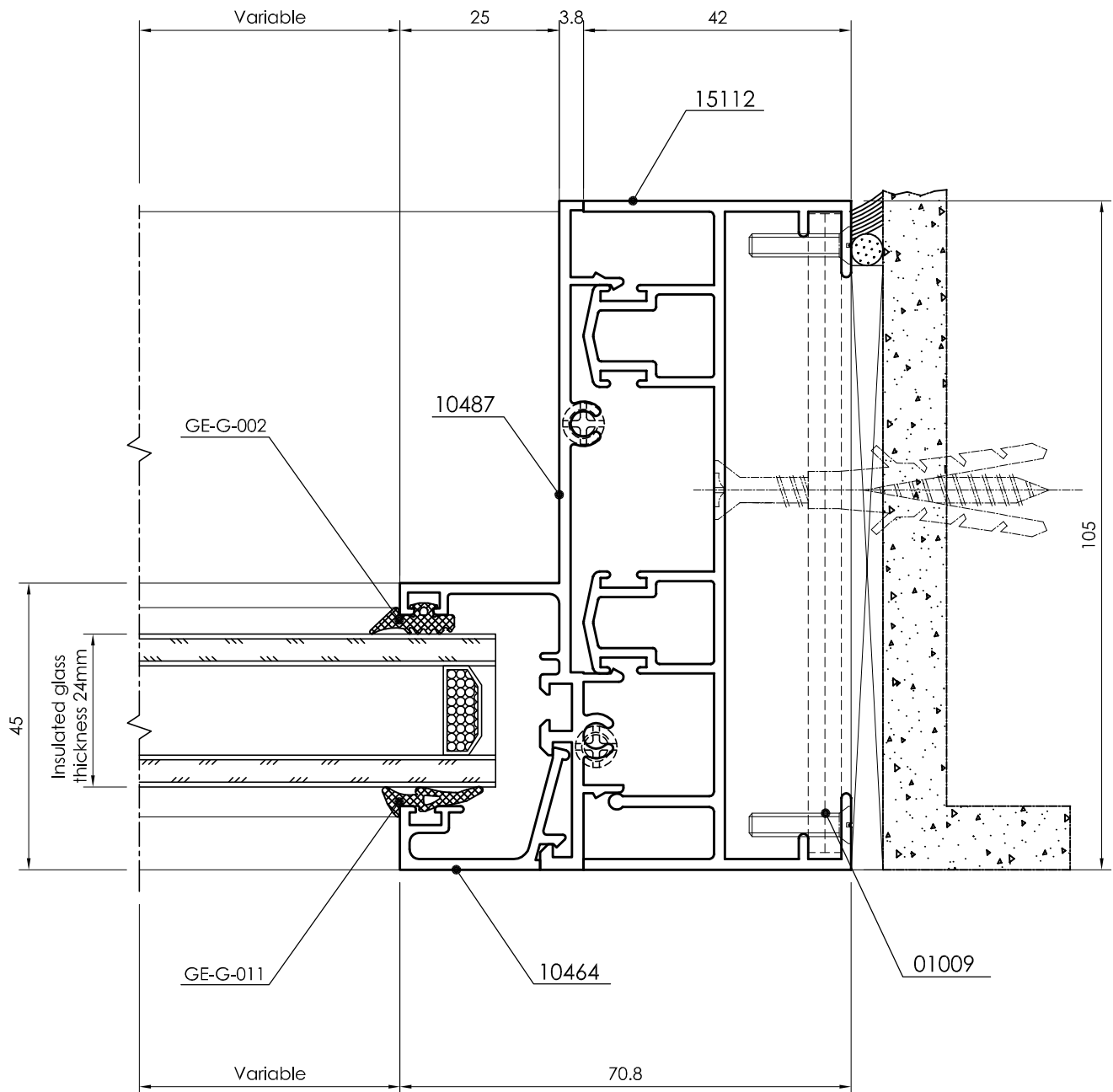
INSULATED GLASS UNIT WITH THICKNESS RANGING FROM 18 TO 24



Left Fixed Section

Detail - B5

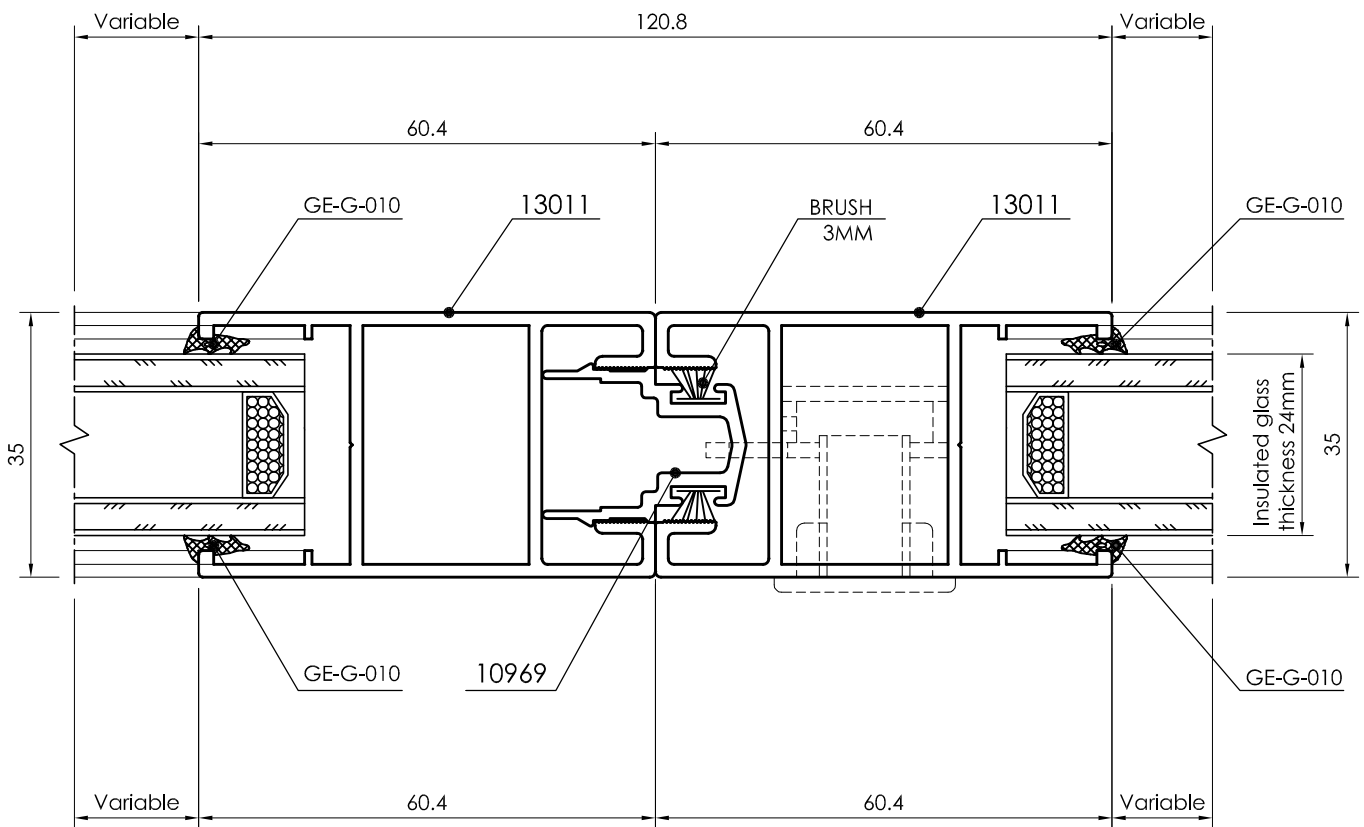
INSULATED GLASS UNIT WITH THICKNESS RANGING FROM 18 TO 24



4 Vents Mid Section

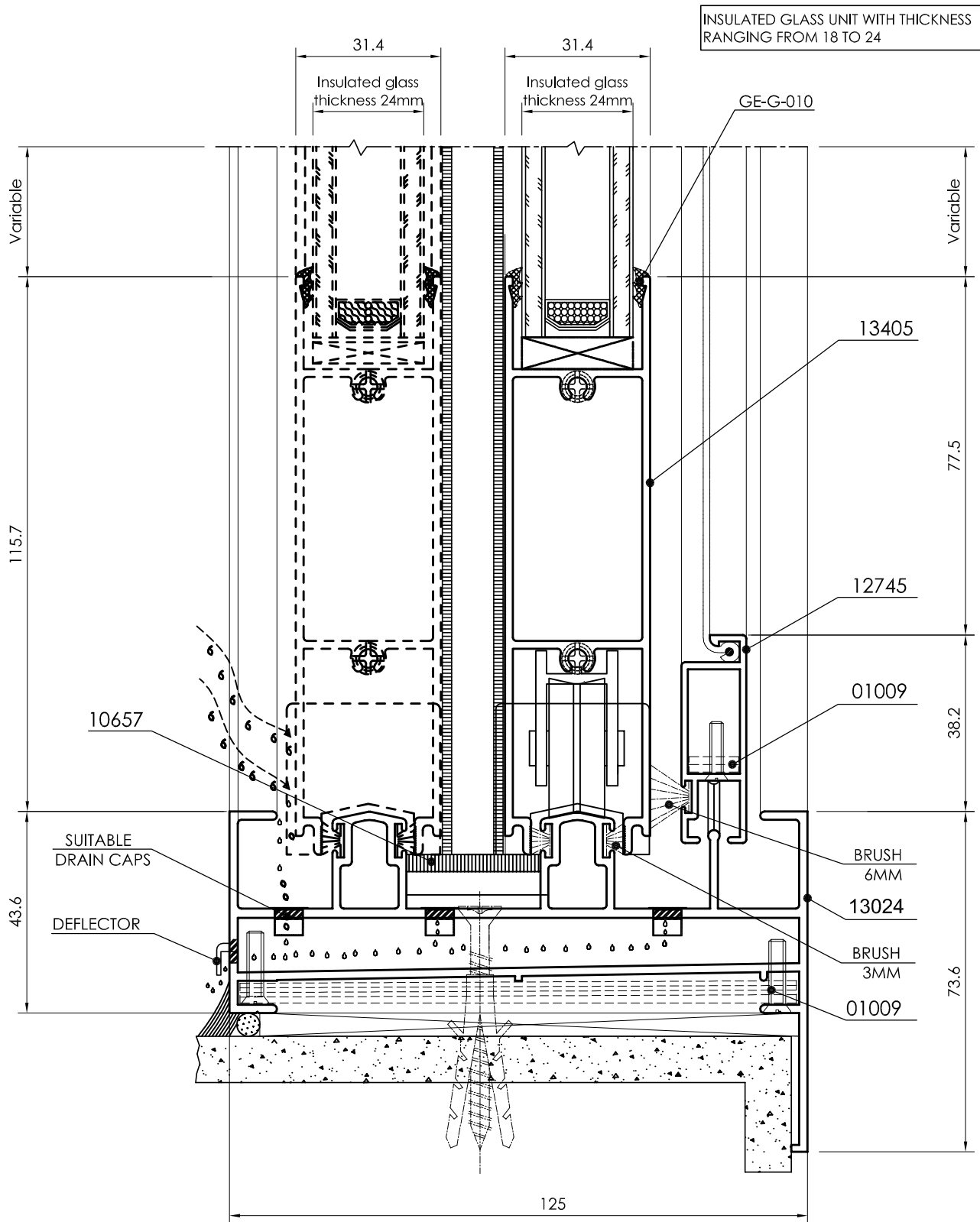
Detail - B6

INSULATED GLASS UNIT WITH THICKNESS RANGING FROM 18 TO 24



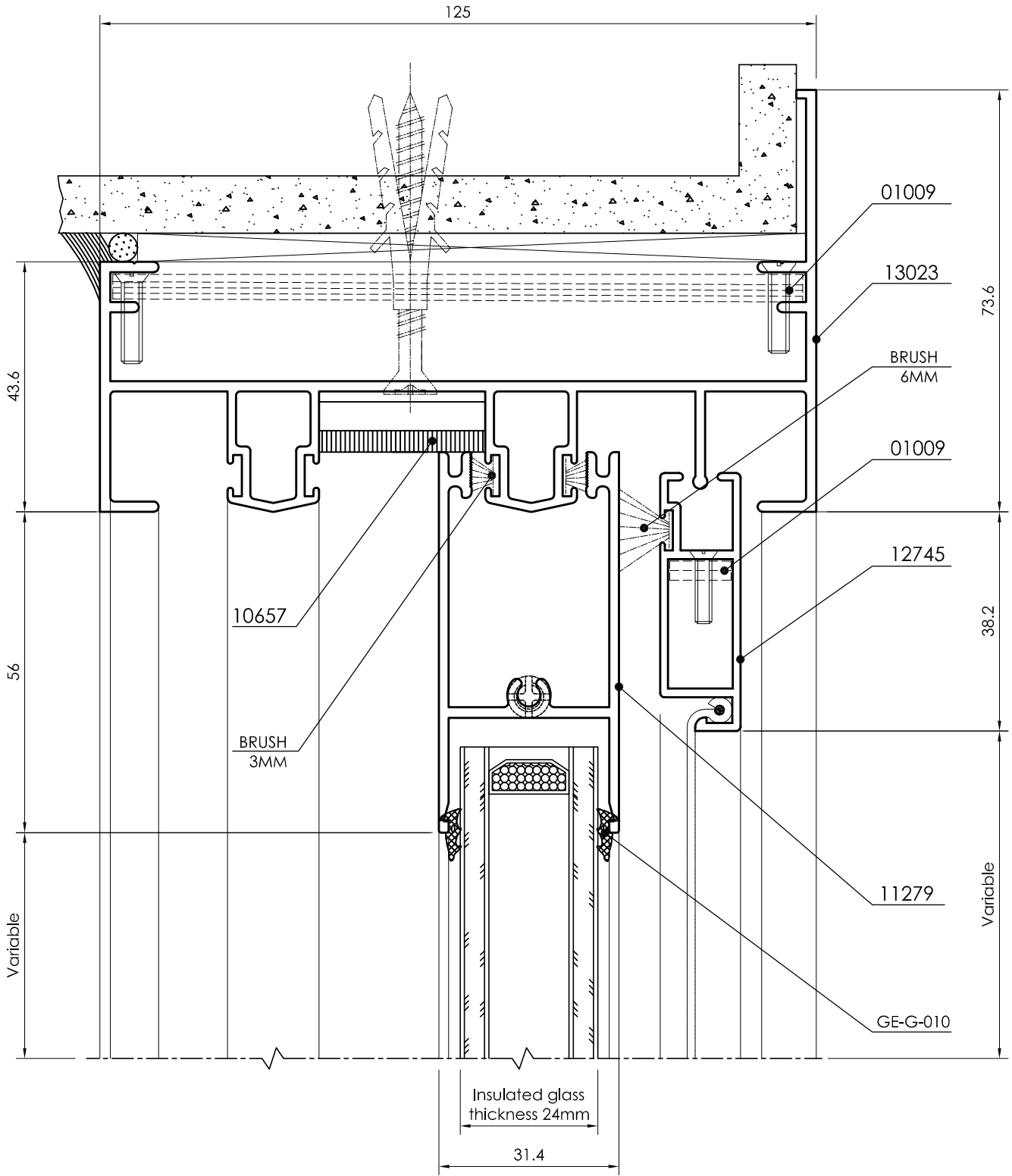
Bottom Door Section

Detail - D



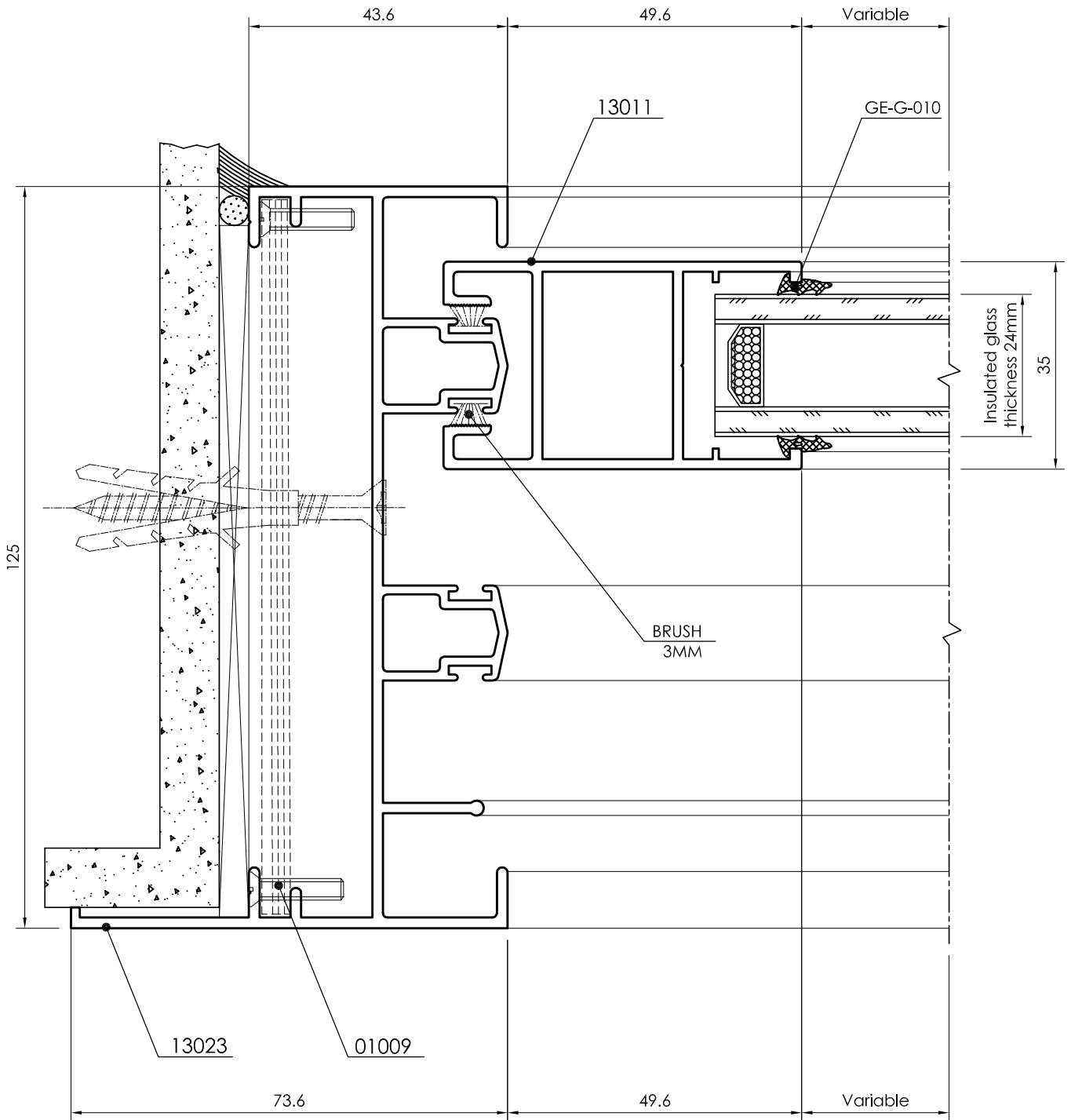
Top Door Section
Detail - D1

INSULATED GLASS UNIT WITH THICKNESS RANGING FROM 18 TO 24



Left Door Section
Detail - D2

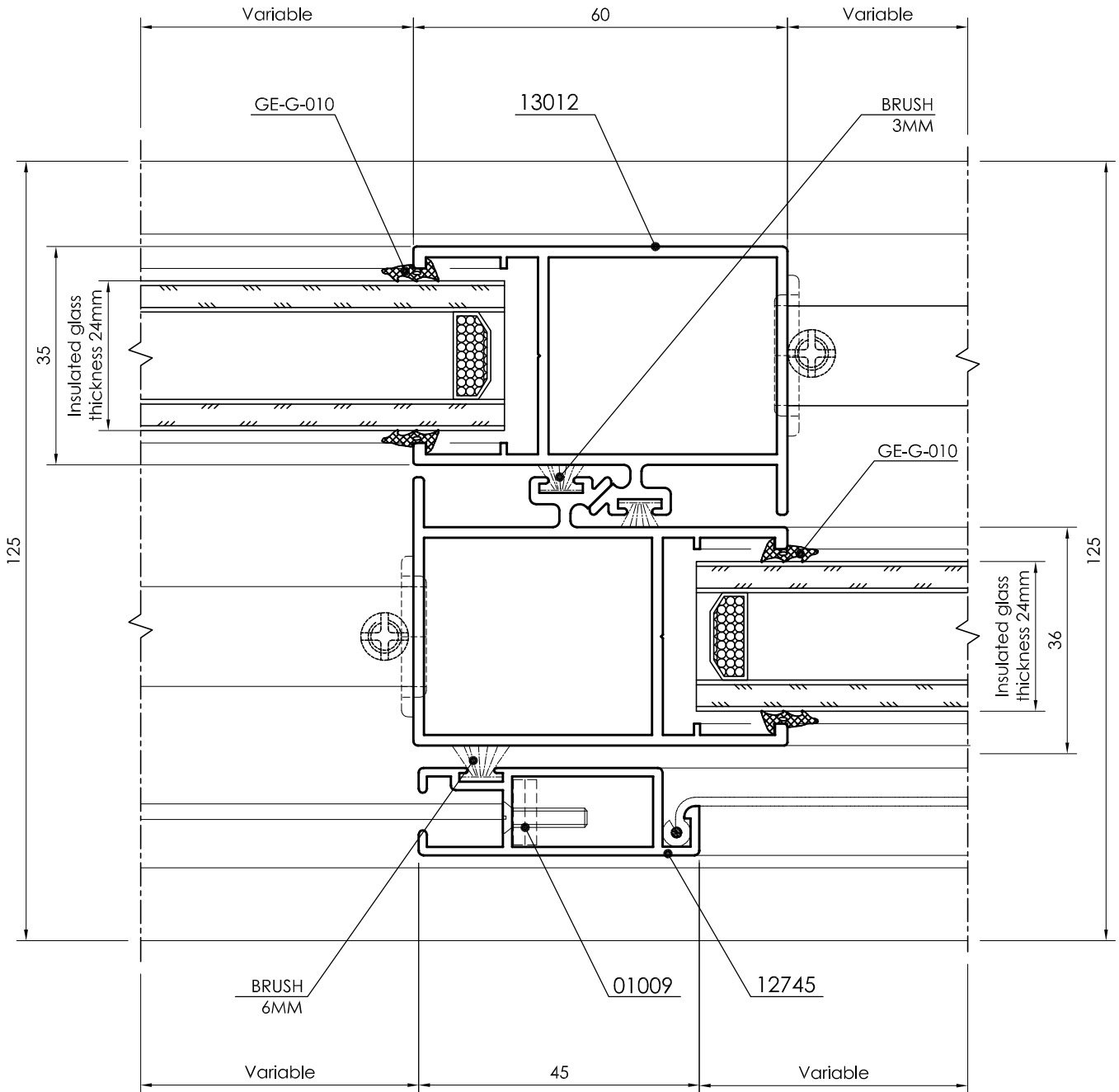
INSULATED GLASS UNIT WITH THICKNESS
RANGING FROM 18 TO 24



Interlock Section

Detail - D3

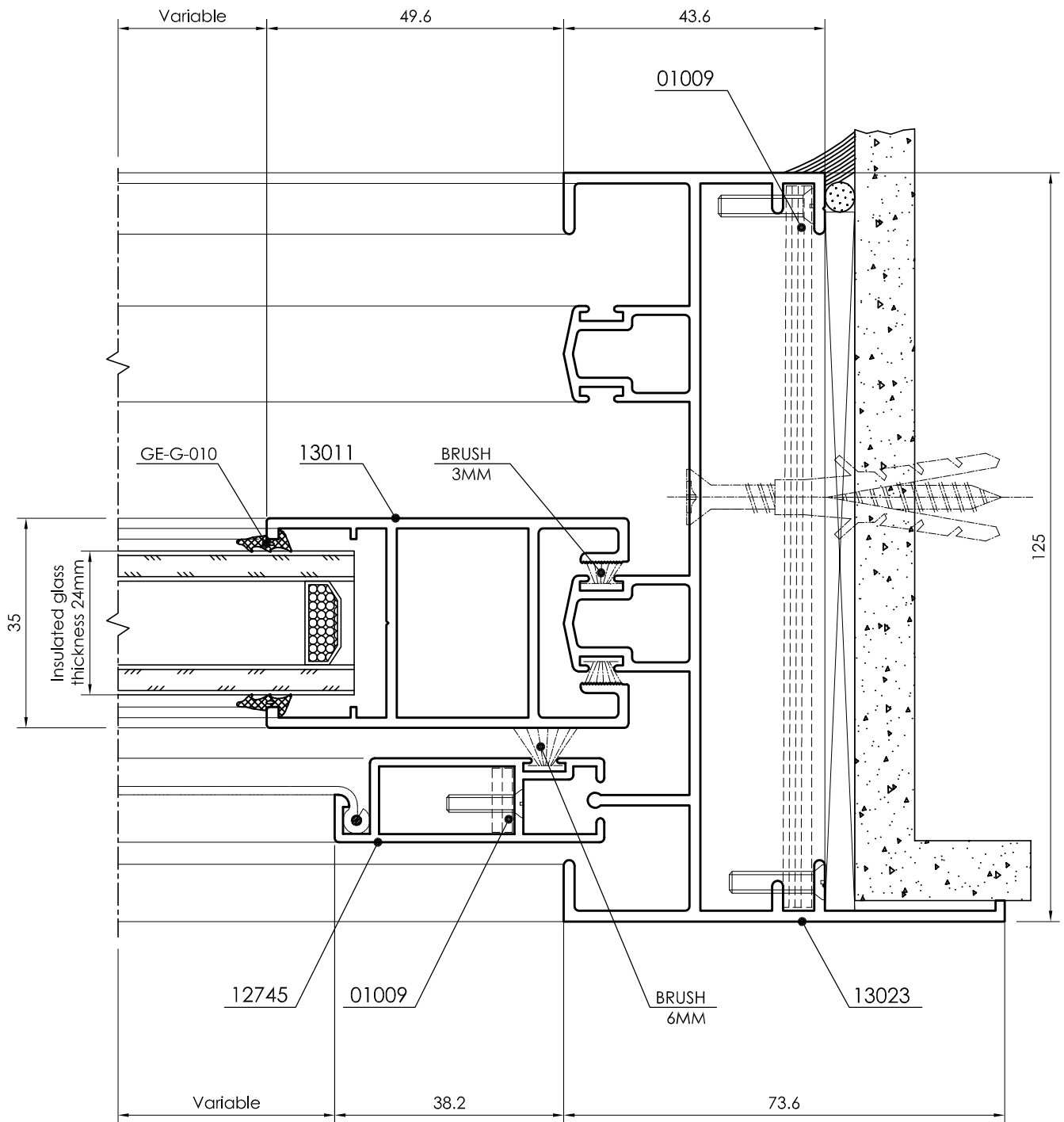
INSULATED GLASS UNIT WITH THICKNESS RANGING FROM 18 TO 24



Right Door Section

Detail - D4

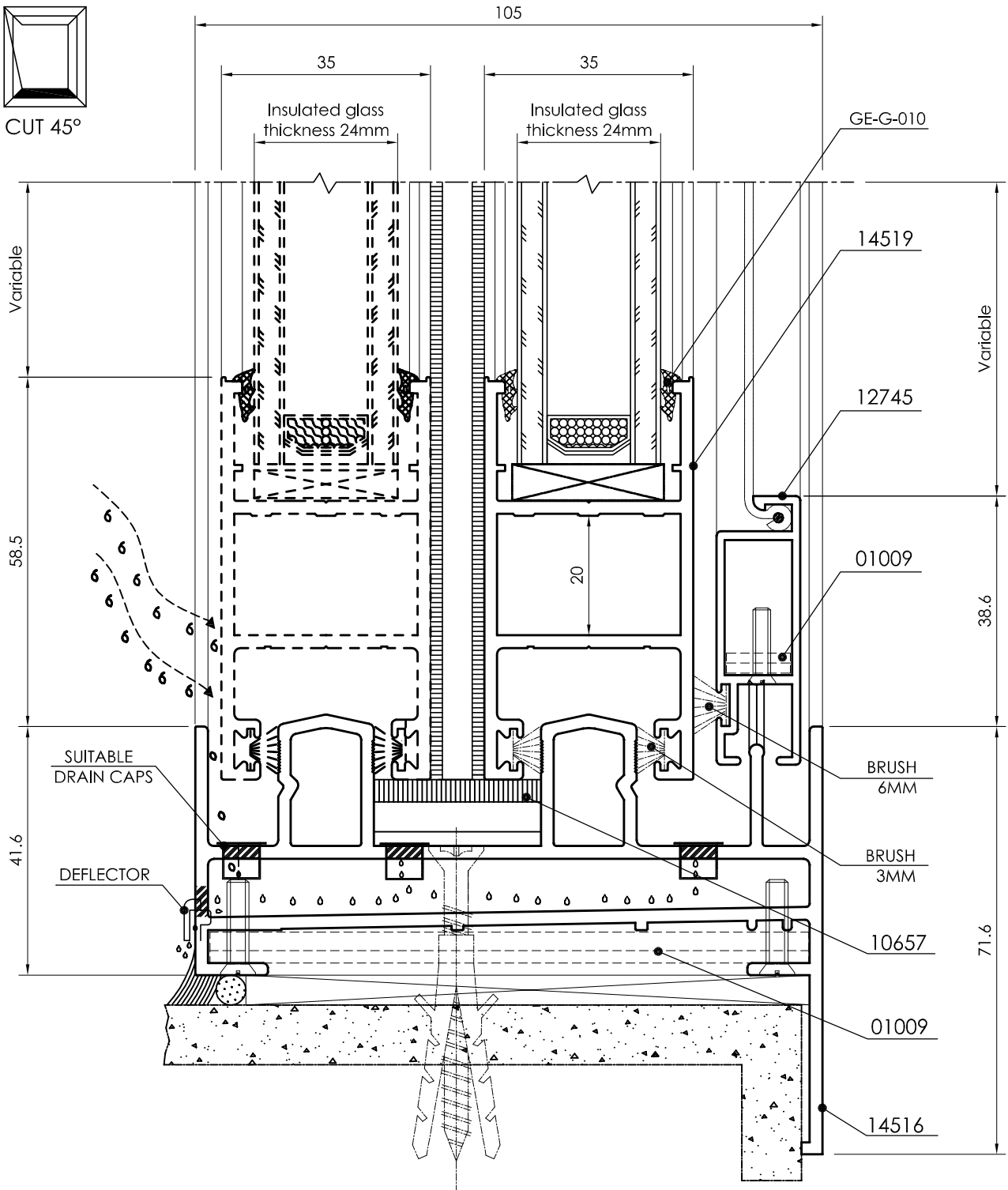
INSULATED GLASS UNIT WITH THICKNESS RANGING FROM 18 TO 24



Bottom Door / Window Section

Detail - R

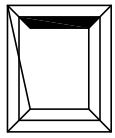
INSULATED GLASS UNIT WITH THICKNESS RANGING FROM 18 TO 24



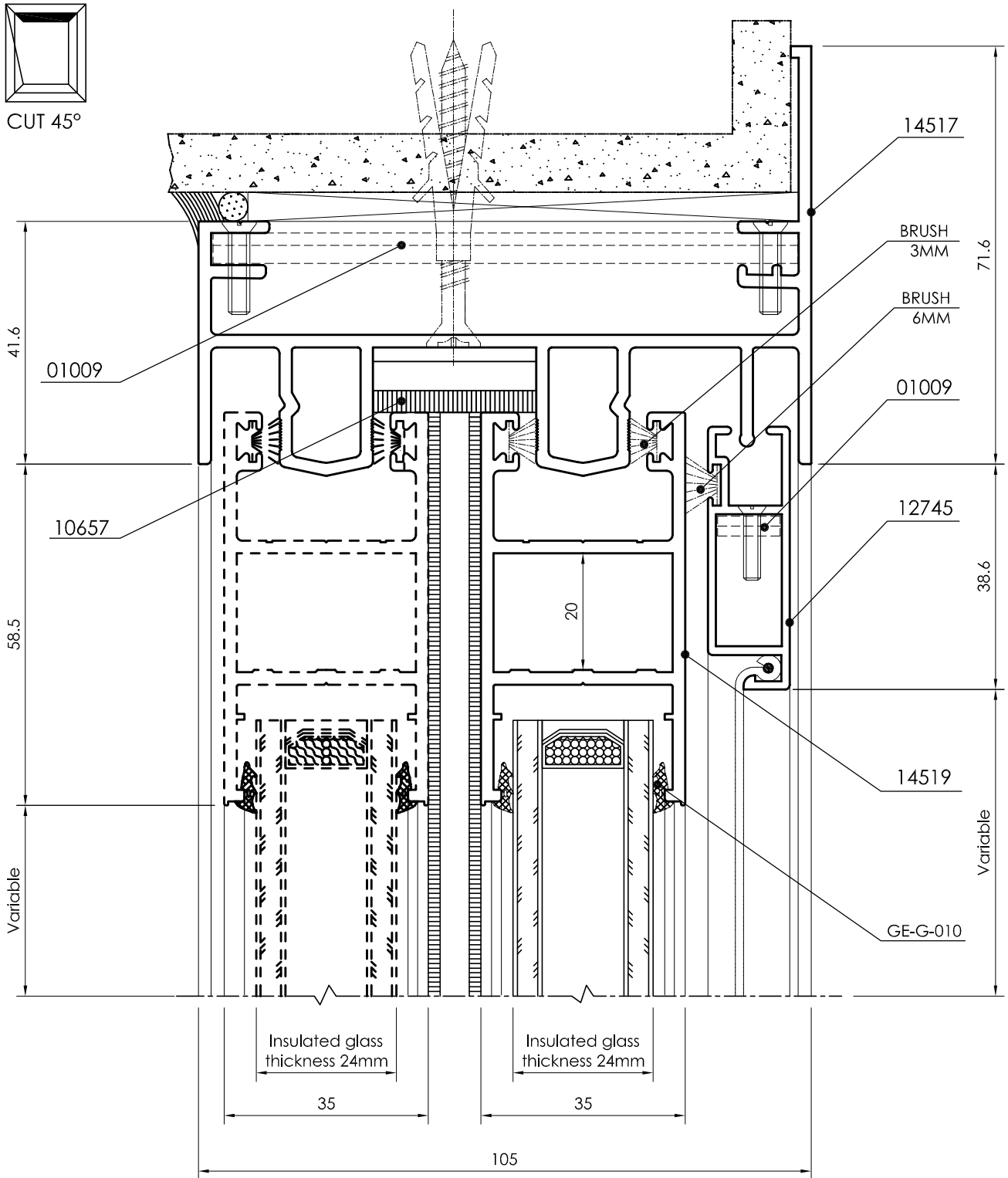
Top Door / Window Section

Detail - R1

INSULATED GLASS UNIT WITH THICKNESS RANGING FROM 18 TO 24

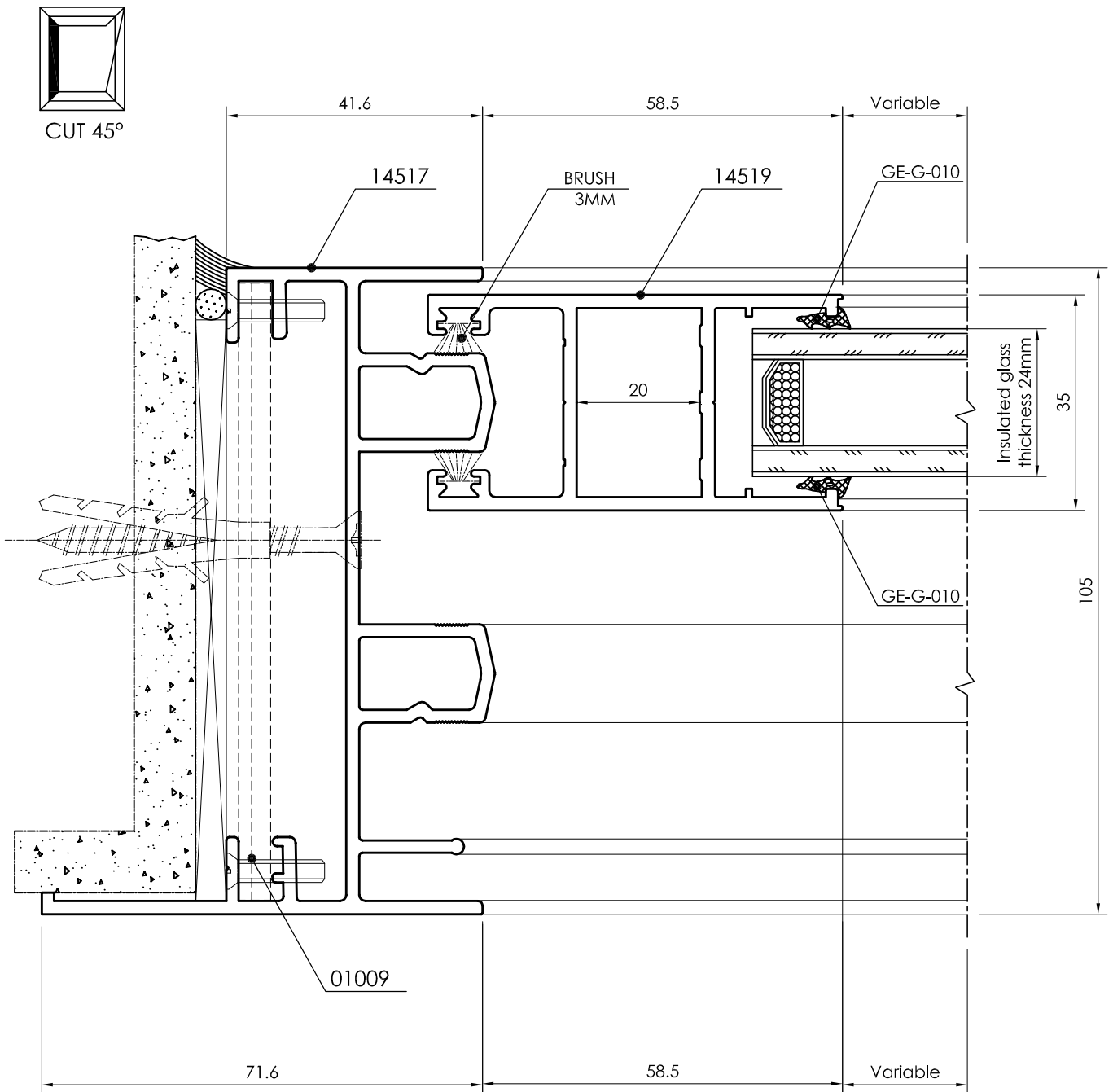


CUT 45°



Left Door / Window Section
Detail - R2

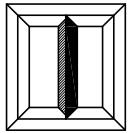
INSULATED GLASS UNIT WITH THICKNESS RANGING FROM 18 TO 24



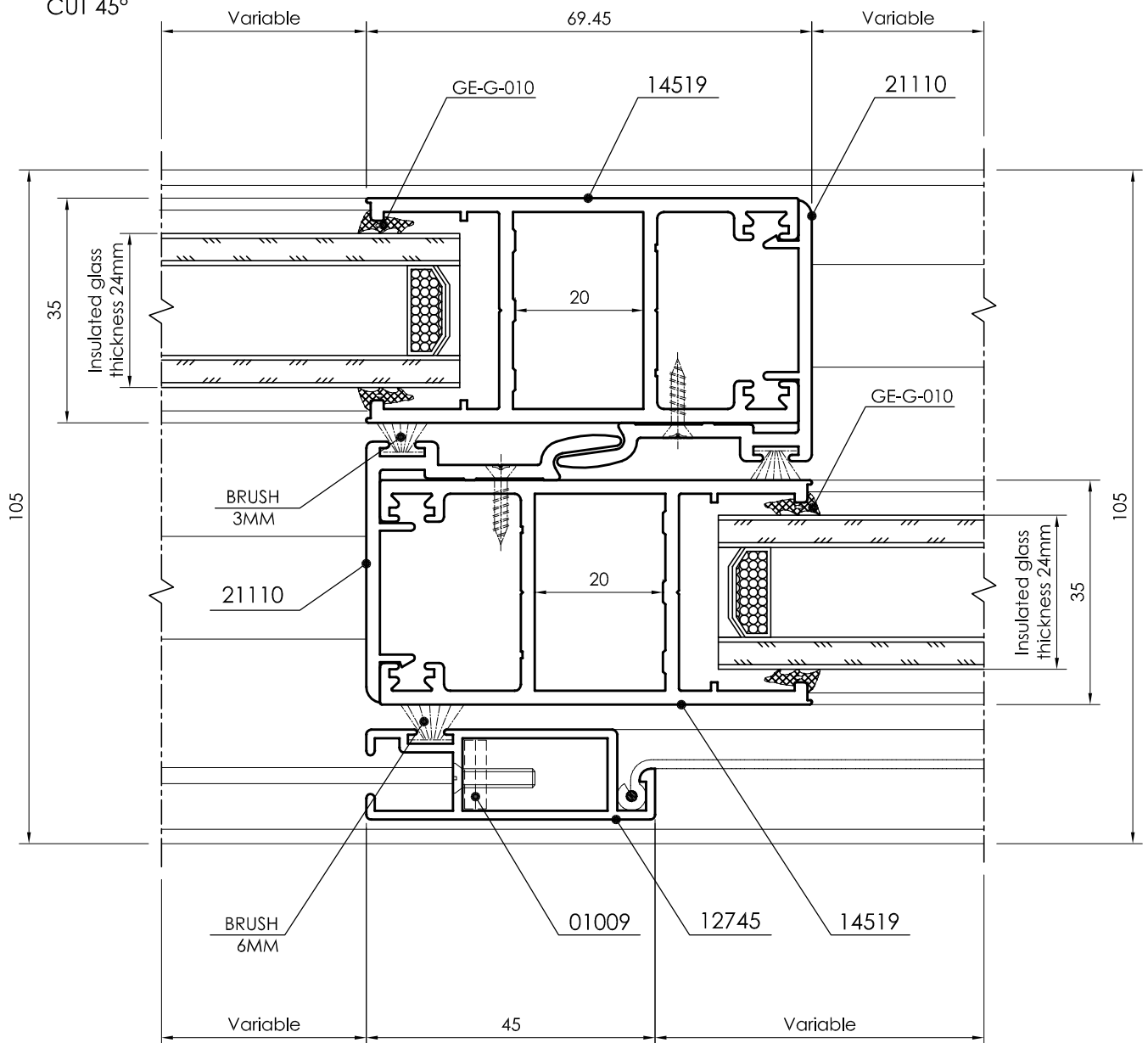
Interlock Section

Detail - R3

INSULATED GLASS UNIT WITH THICKNESS RANGING FROM 18 TO 24



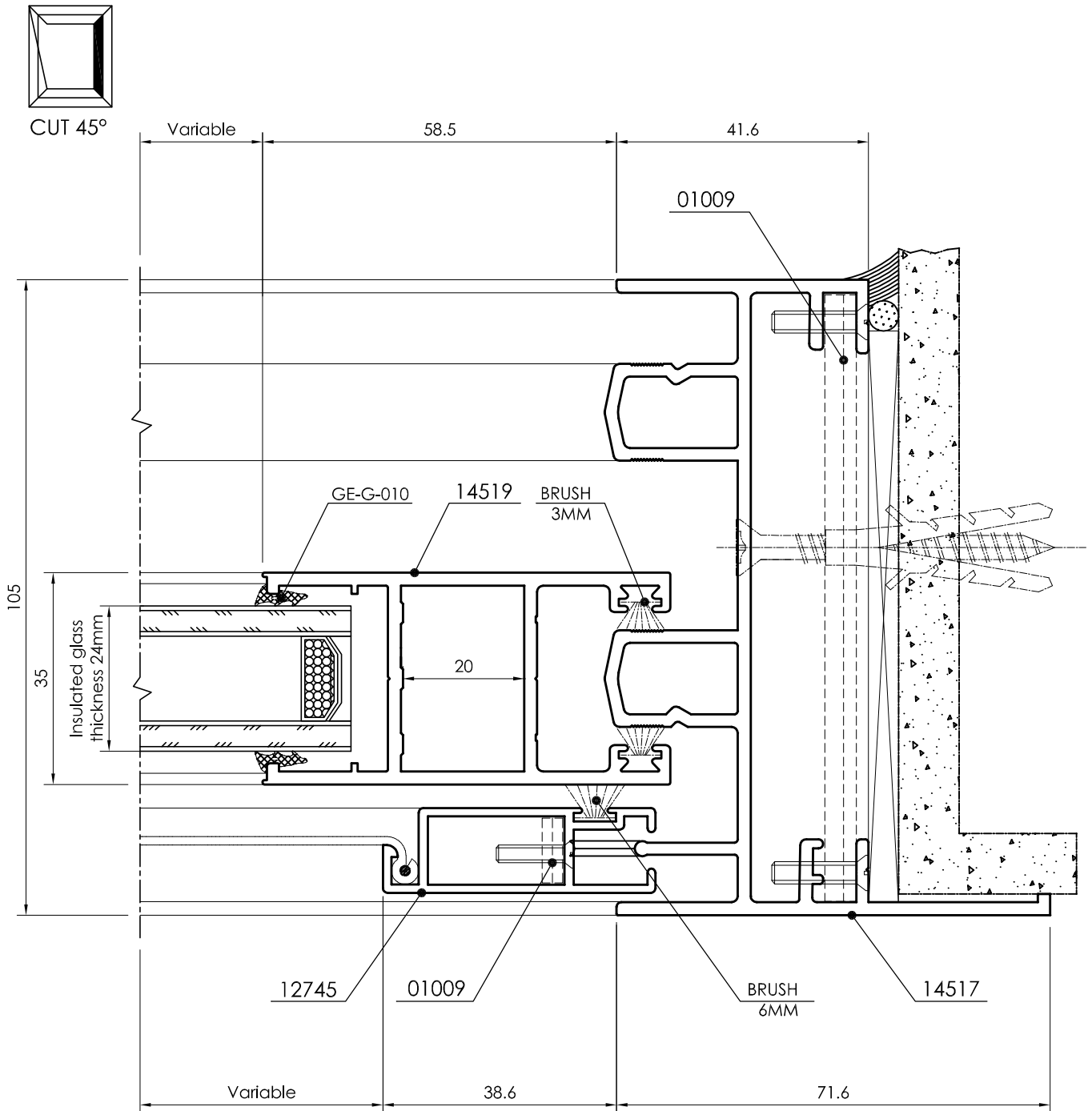
CUT 45°



Right Door / Window Section

Detail - R4

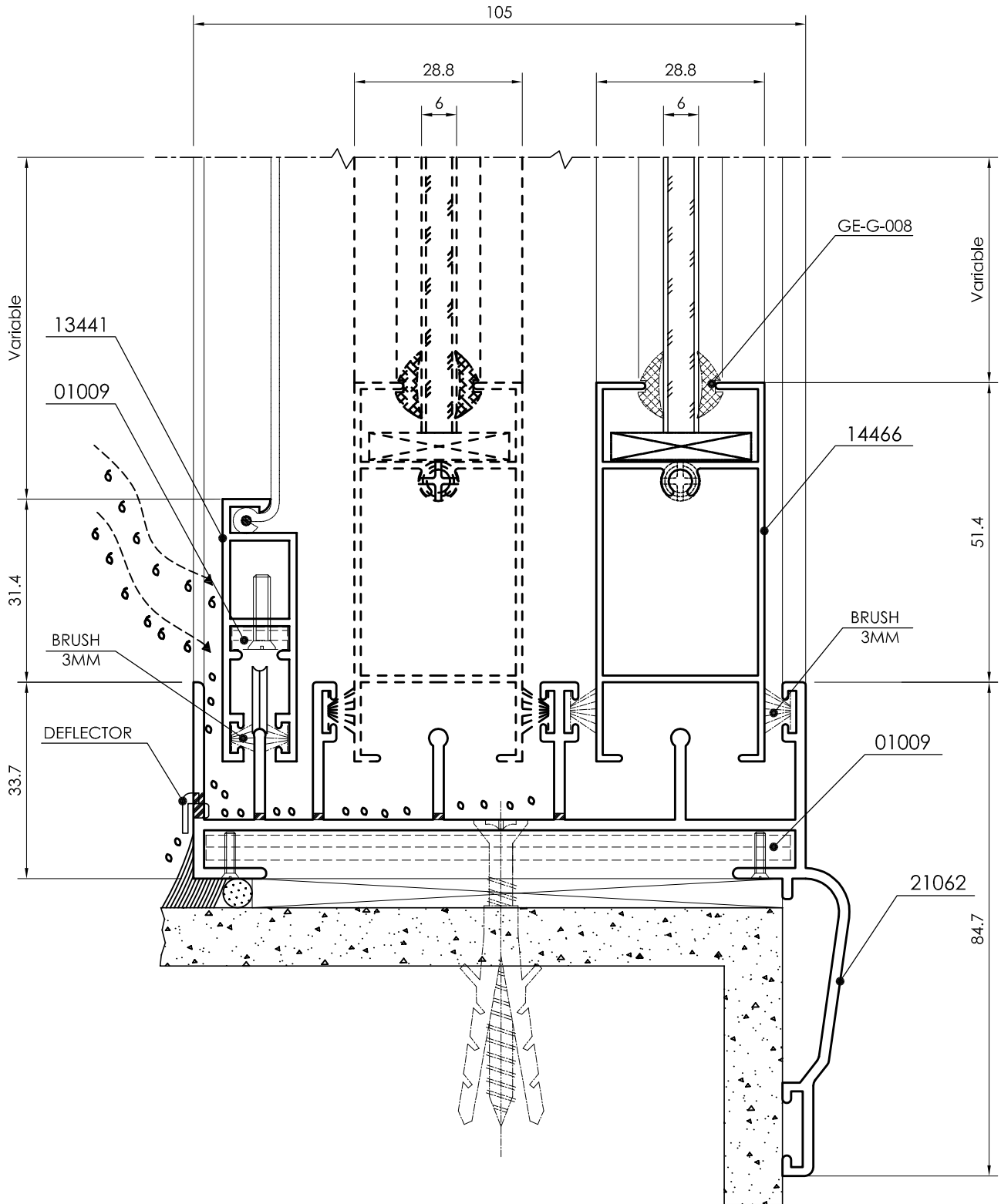
INSULATED GLASS UNIT WITH THICKNESS RANGING FROM 18 TO 24



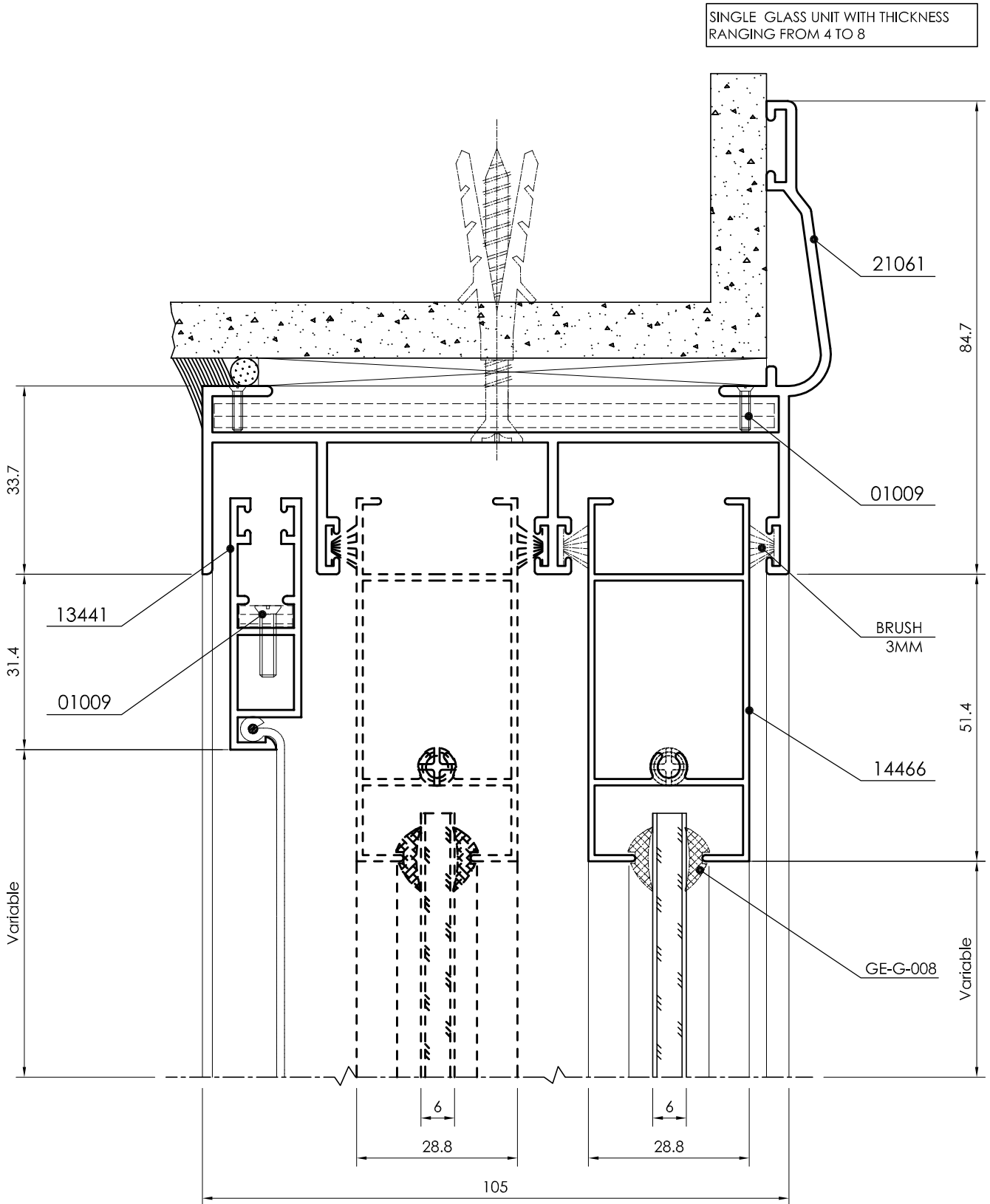
Bottom Section

Detail - C

SINGLE GLASS UNIT WITH THICKNESS RANGING FROM 4 TO 8

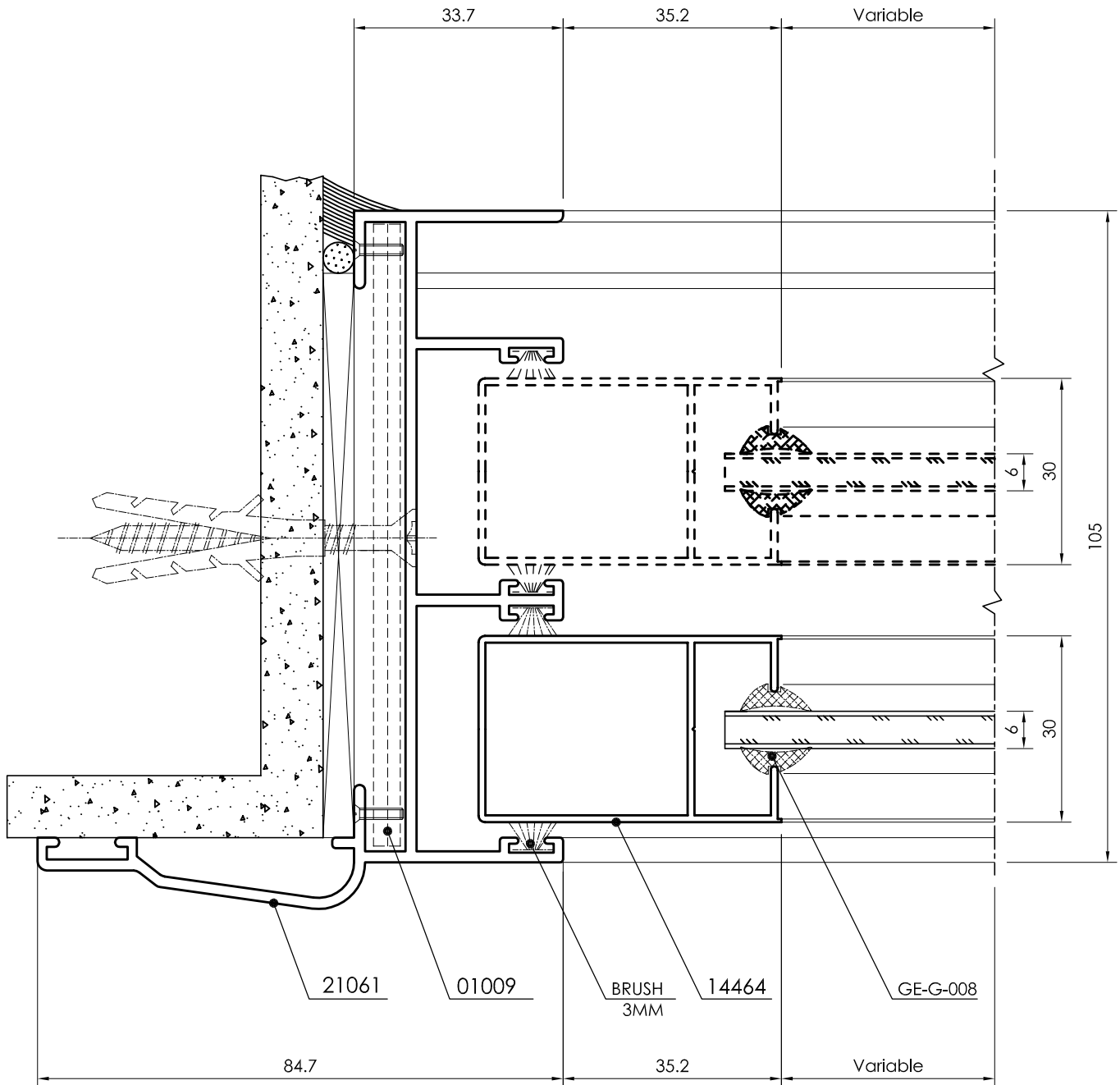


Top Section
Detail - C1



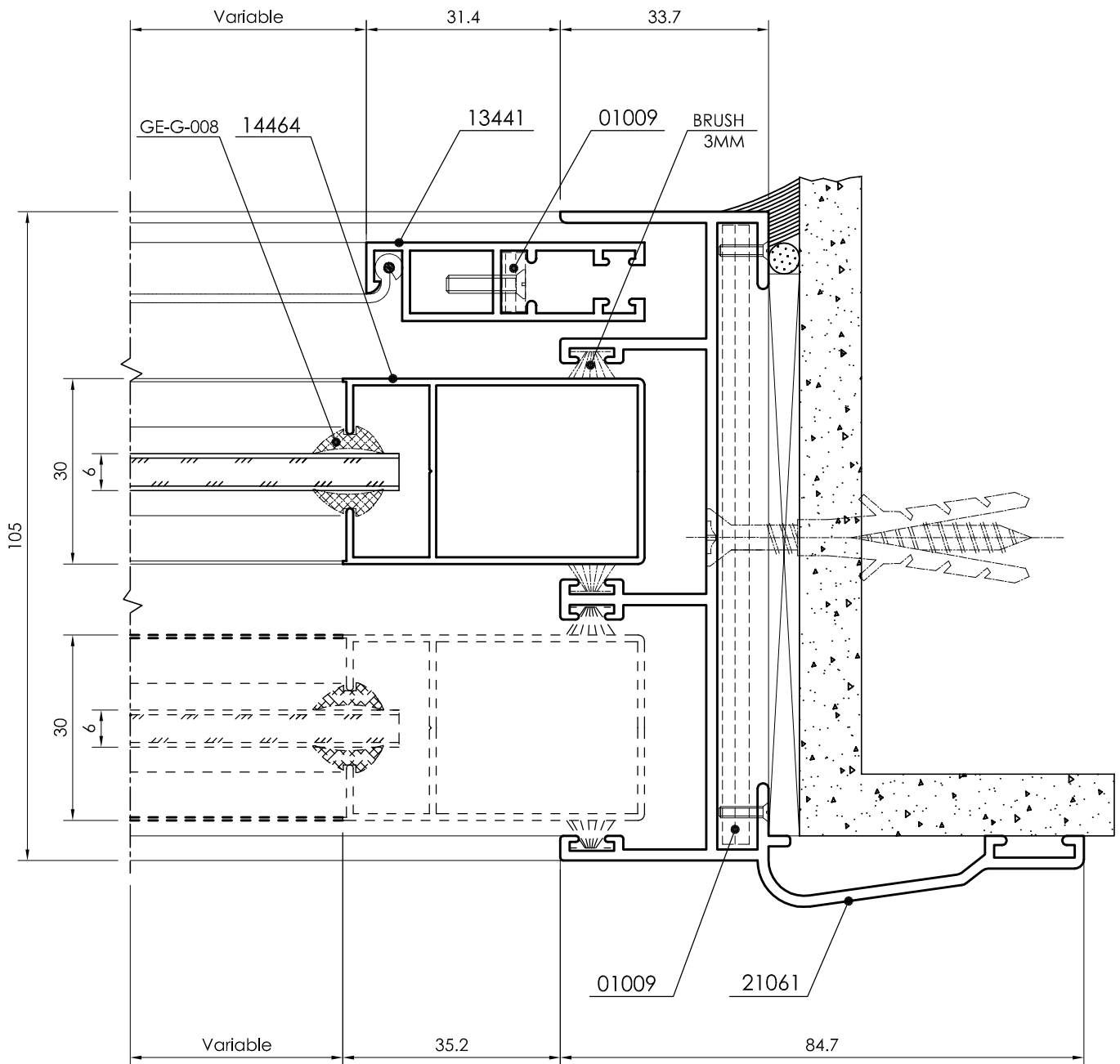
Left Section
Detail - C2

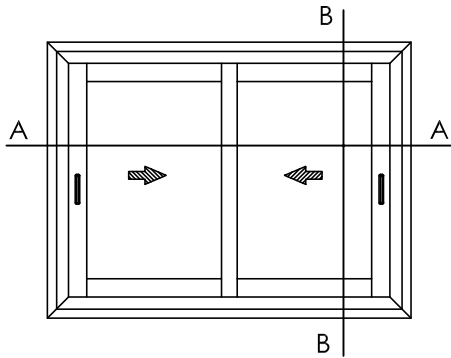
SINGLE GLASS UNIT WITH THICKNESS
RANGING FROM 4 TO 8



Left Section
Detail - C4

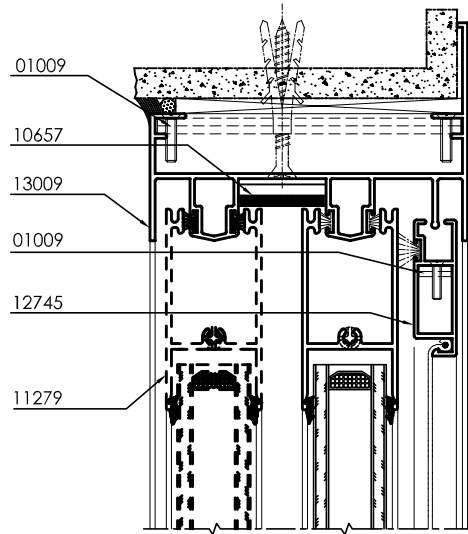
SINGLE GLASS UNIT WITH THICKNESS RANGING FROM 4 TO 8



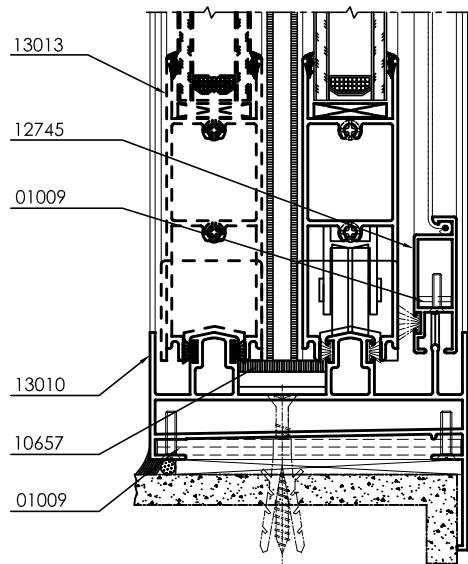


2 - SLIDING WINDOW (105MM)

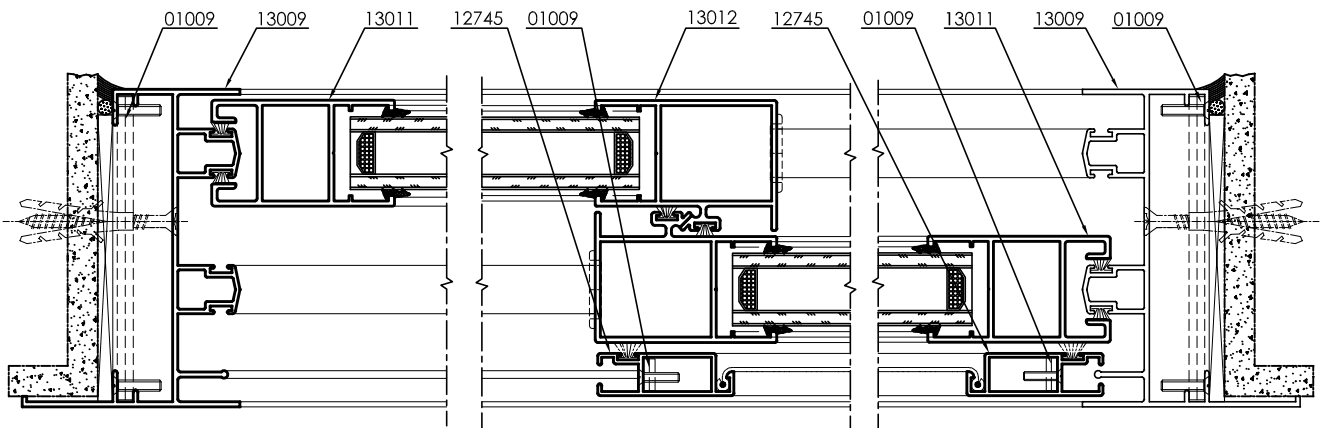
DETAIL : B-B

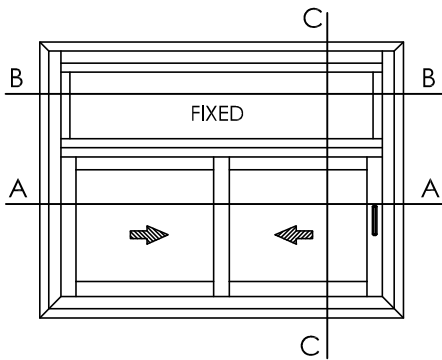


PROFILES		
Description	Shape	Section No.
Bottom Frame		13010
Top /Side Frame		13009
Bottom Sash		13013
Top Sash		11279
Side Sash		13011
Interlock		13012
Fly screen		12745
Dust Proof		10657
Corner Cleat - 40*4		01009



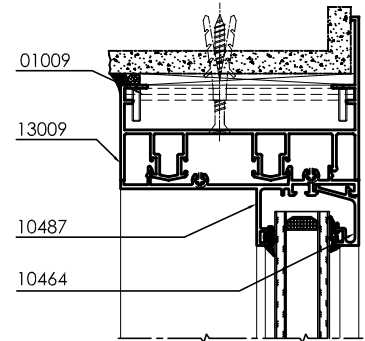
DETAIL : A-A



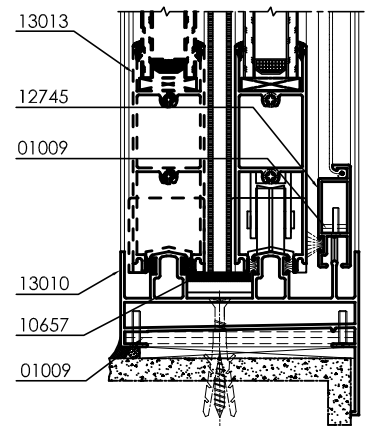
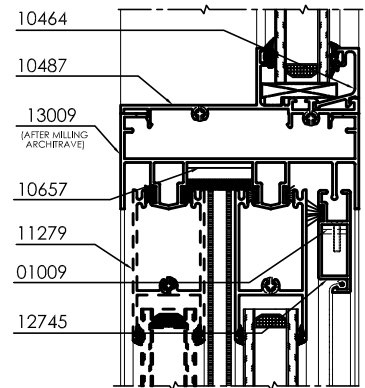
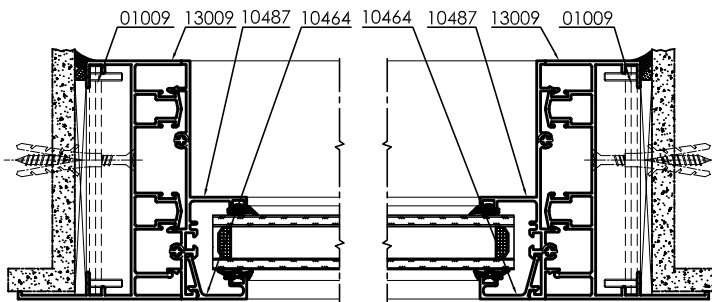


2-SLIDING WINDOW (105MM)
WITH FIXED PANEL

DETAIL : C-C

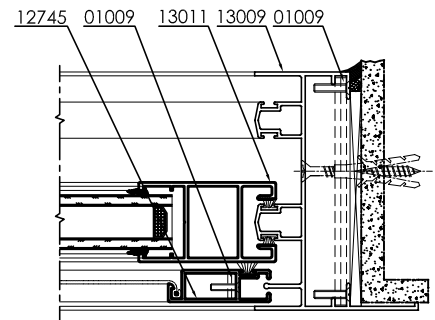
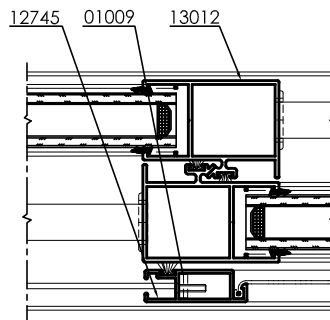
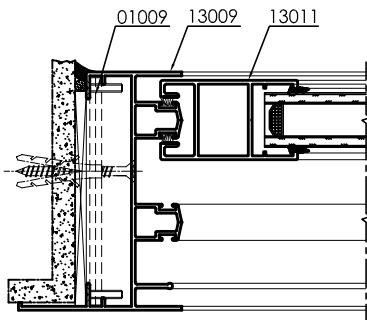


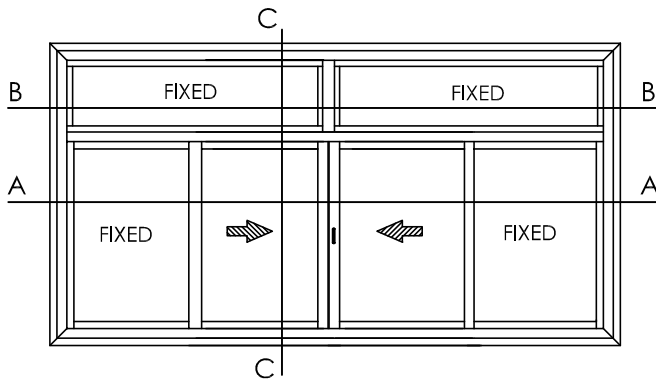
DETAIL : B-B



PROFILES		
Description	Shape	Section No.
Bottom Frame		13010
Top /Side Frame		13009
Bottom Sash		13013
Top Sash		11279
Side Sash		13011
Interlock		13012
Fly screen		12745
Glazing bead		10464
Adaptor		10487
Dust Proof		10657
Corner Cleat - 40*4		01009

DETAIL : A-A

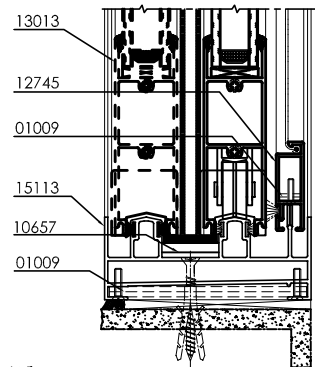
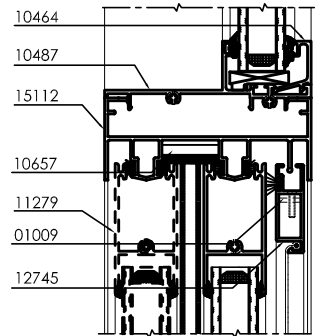
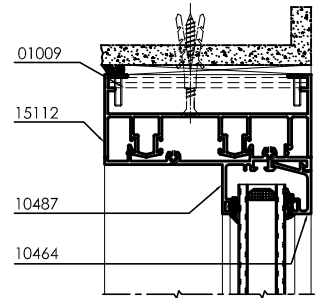




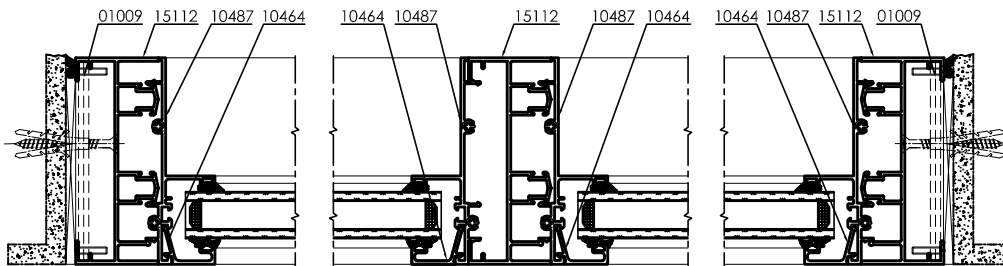
4 - VENT WINDOW WITH TOP FIXED PANEL

PROFILES		
Description	Shape	Section No.
Bottom Frame		15113
Top /Side Frame		15112
Bottom Sash		13013
Top Sash		11279
Side Sash		13011
Interlock		13012
Fly screen		12745
Glazing bead		10464
Adaptor		10487
Dust Proof		10657
Corner Cleat - 40*4		01009

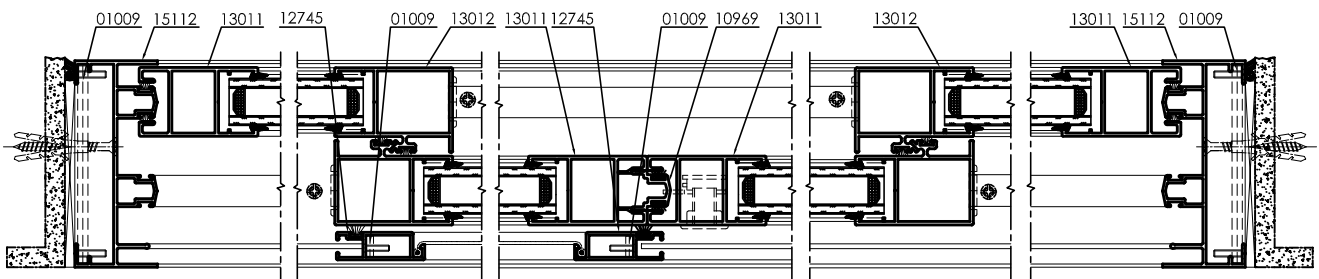
DETAIL : C-C

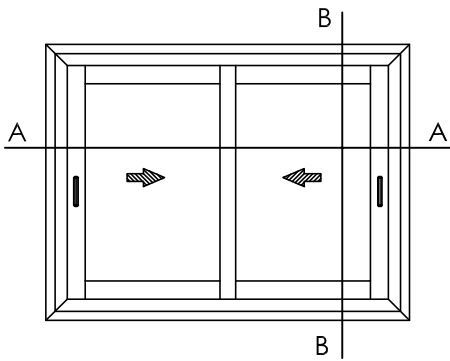


DETAIL : B-B



DETAIL : A-A

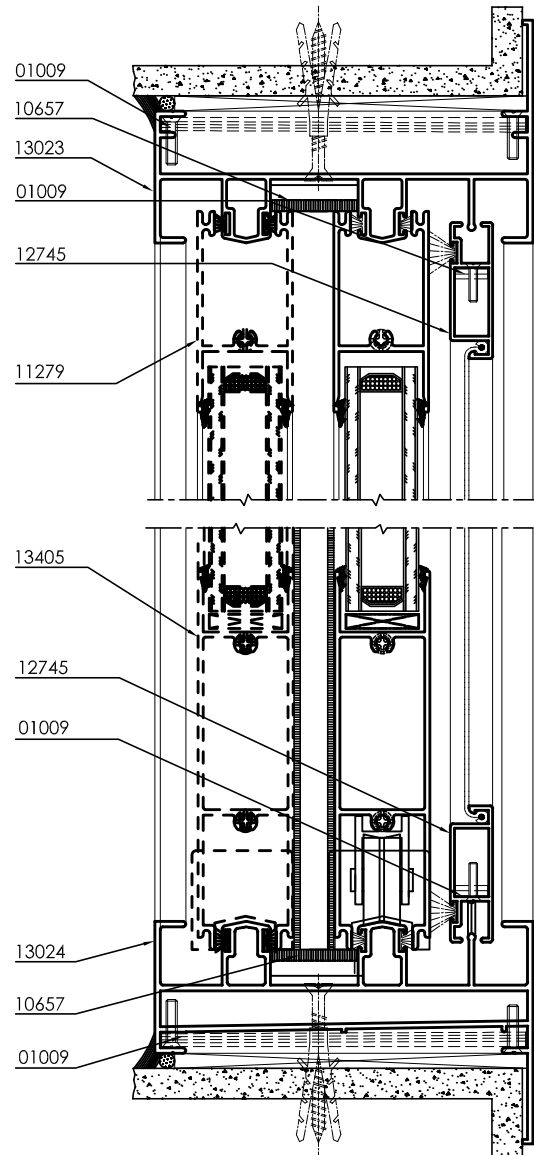




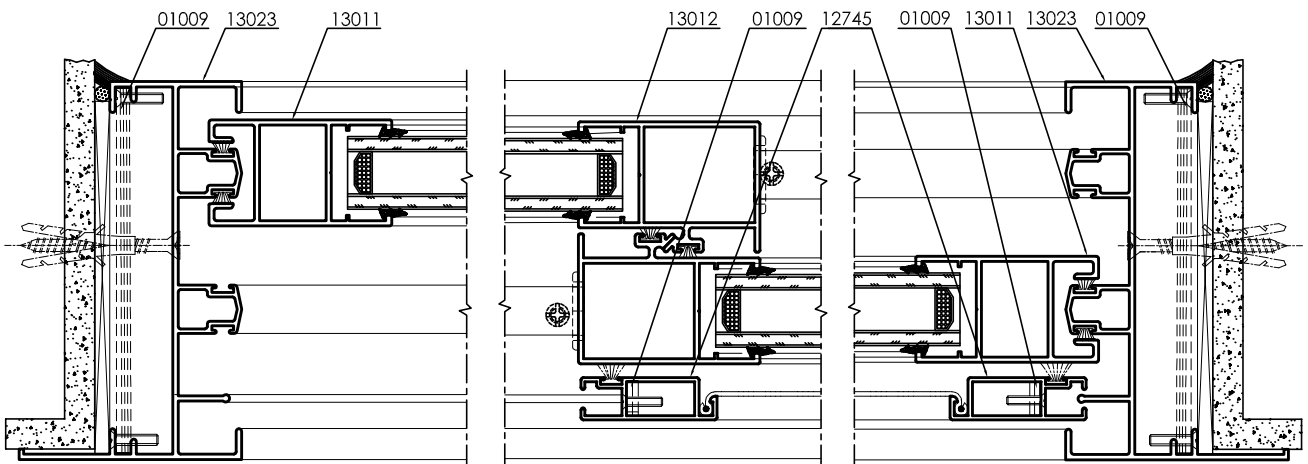
2 - SLIDING DOOR (125MM)

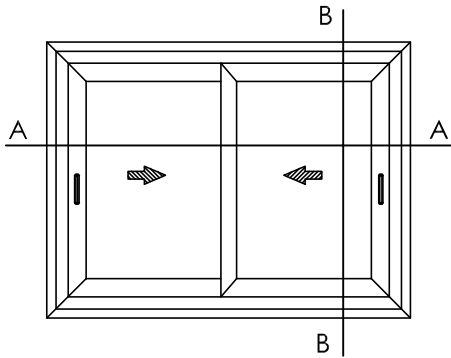
PROFILES		
Description	Shape	Section No.
Bottom Frame		13024
Top /Side Frame		13023
Bottom Sash		13405
Top Sash		11279
Side Sash		13011
Interlock		13012
Fly screen		12745
Dust Proof		10657
Corner Cleat - 40*4		01009

DETAIL : B-B



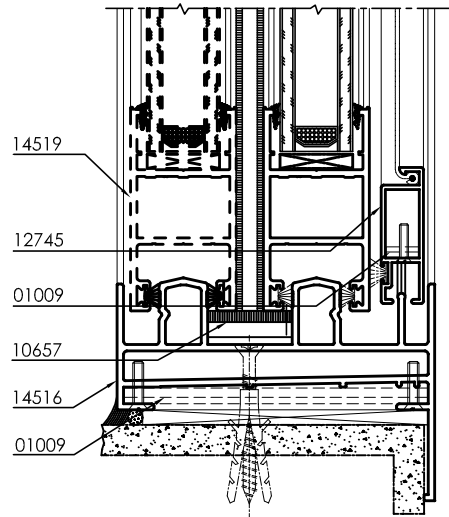
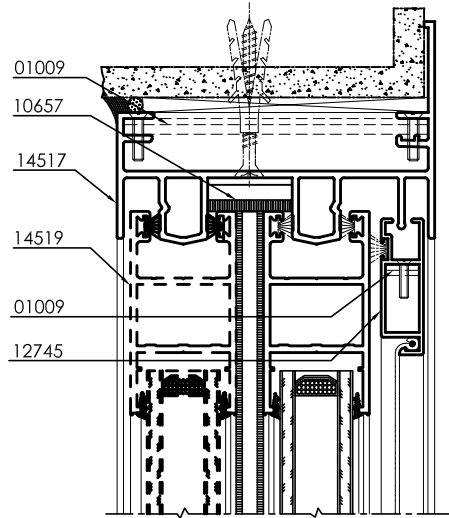
DETAIL : A-A





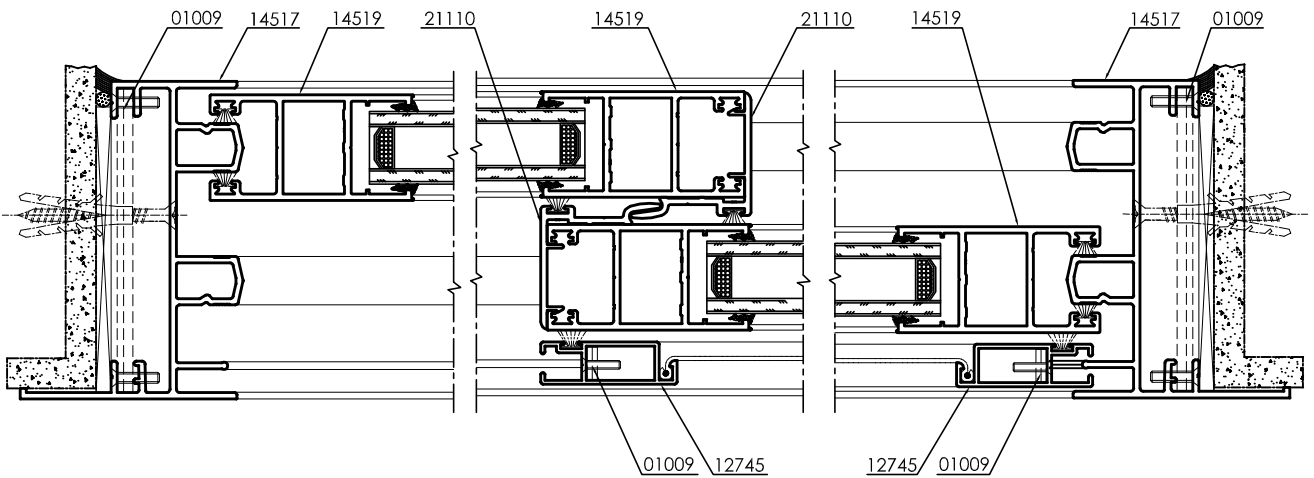
2 - SLIDING WINDOW (105MM)
Cut 45°

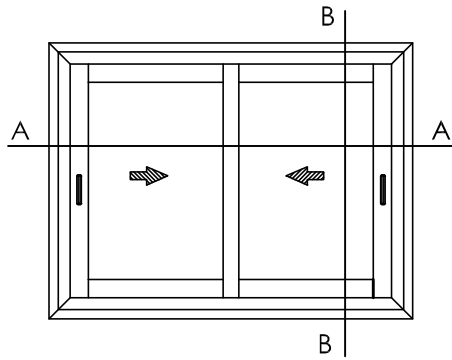
DETAIL : B-B



PROFILES		
Description	Shape	Section No.
Bottom Frame		14516
Top /Side Frame		14517
Bottom/Top/Side Sash		14519
Interlock		21110
Fly screen		12745
Dust Proof		10657
Corner Cleat - 40*4		01009

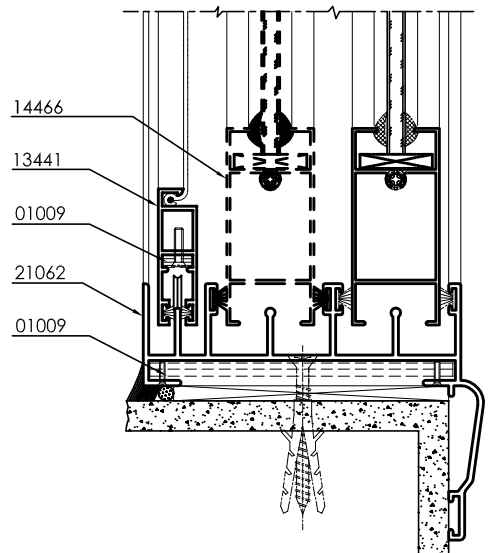
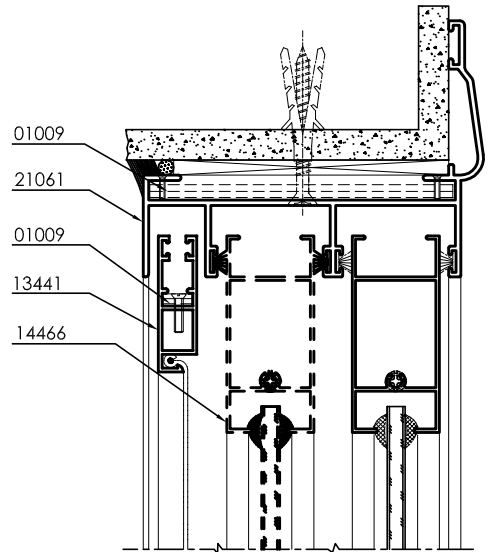
DETAIL : A-A





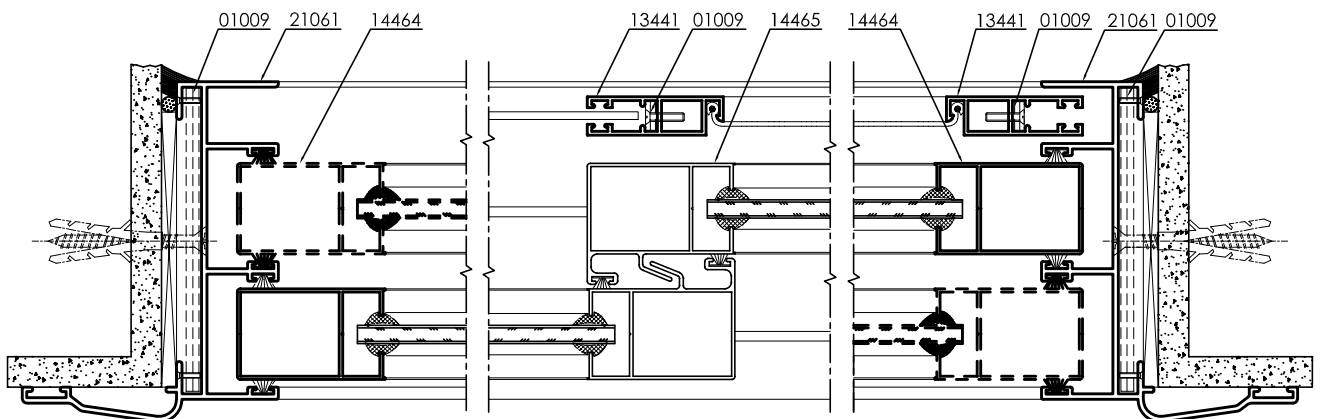
2 - SLIDING WINDOW (105MM)

DETAIL : B-B



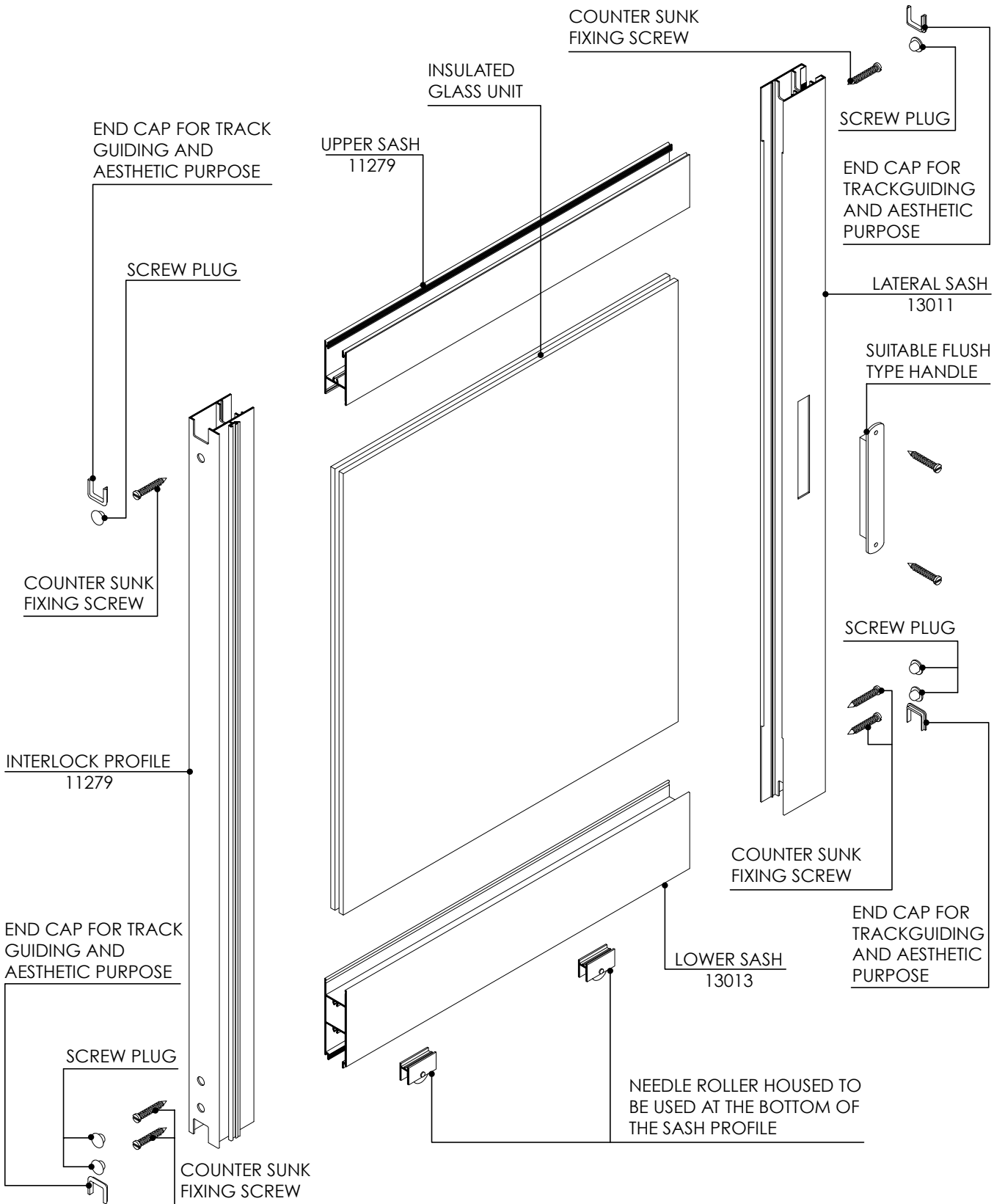
PROFILES		
Description	Shape	Section No.
Bottom Frame		21062
Top /Side Frame		21061
Bottom / Top Sash		14466
Side Sash		14464
Interlock		14465
Fly screen		13441
Corner Cleat - 40*4		01009

DETAIL : A-A

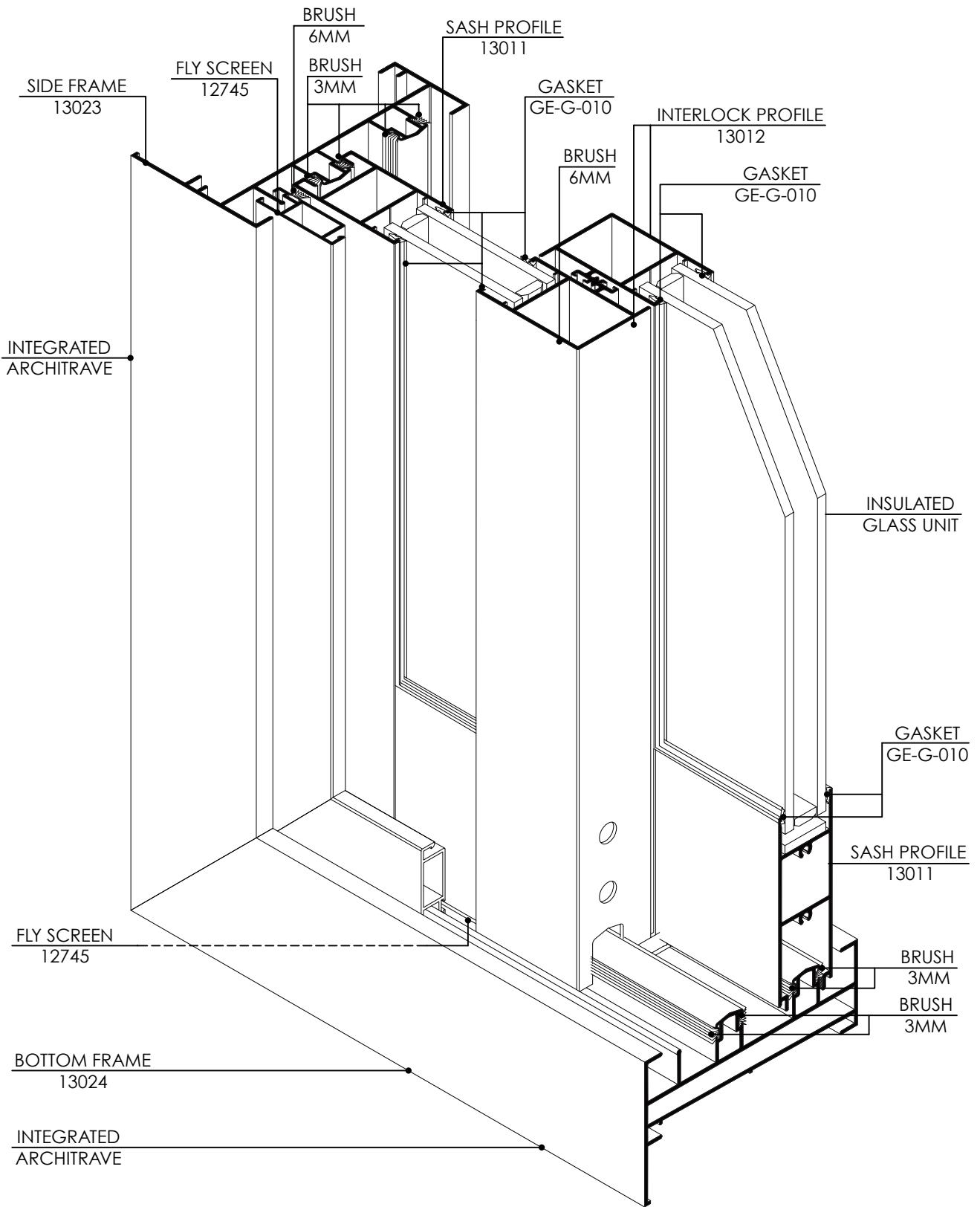


3D SECTIONS

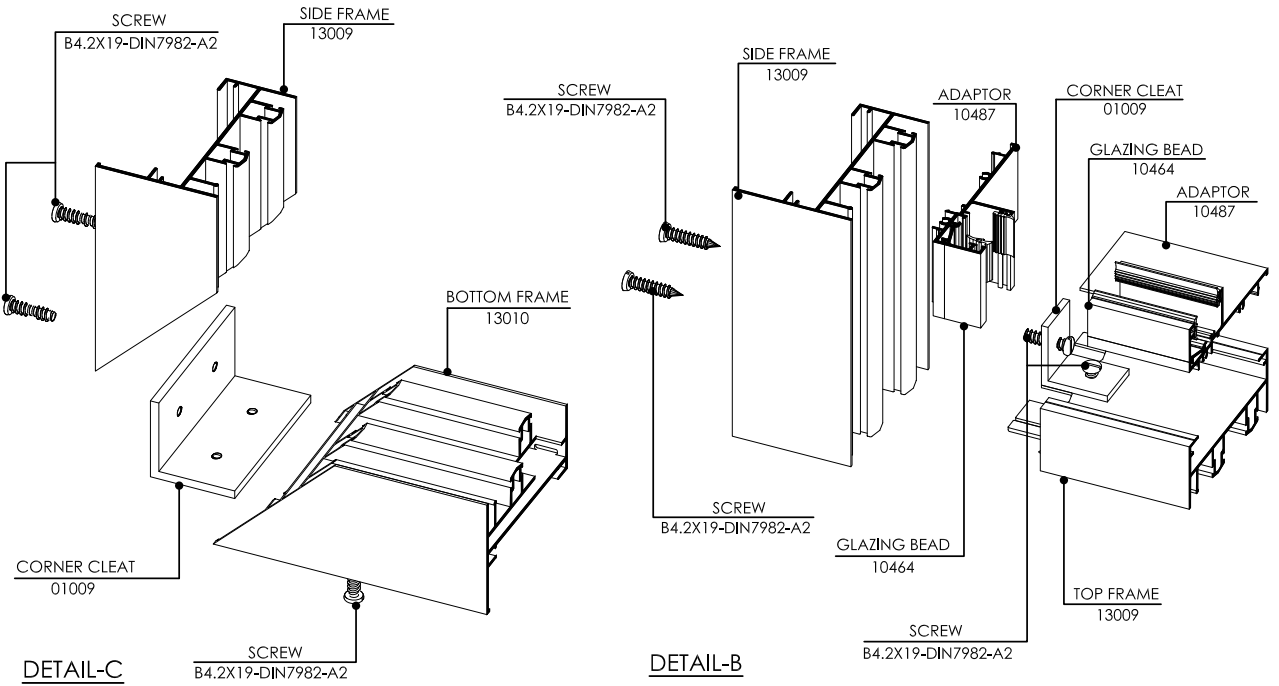
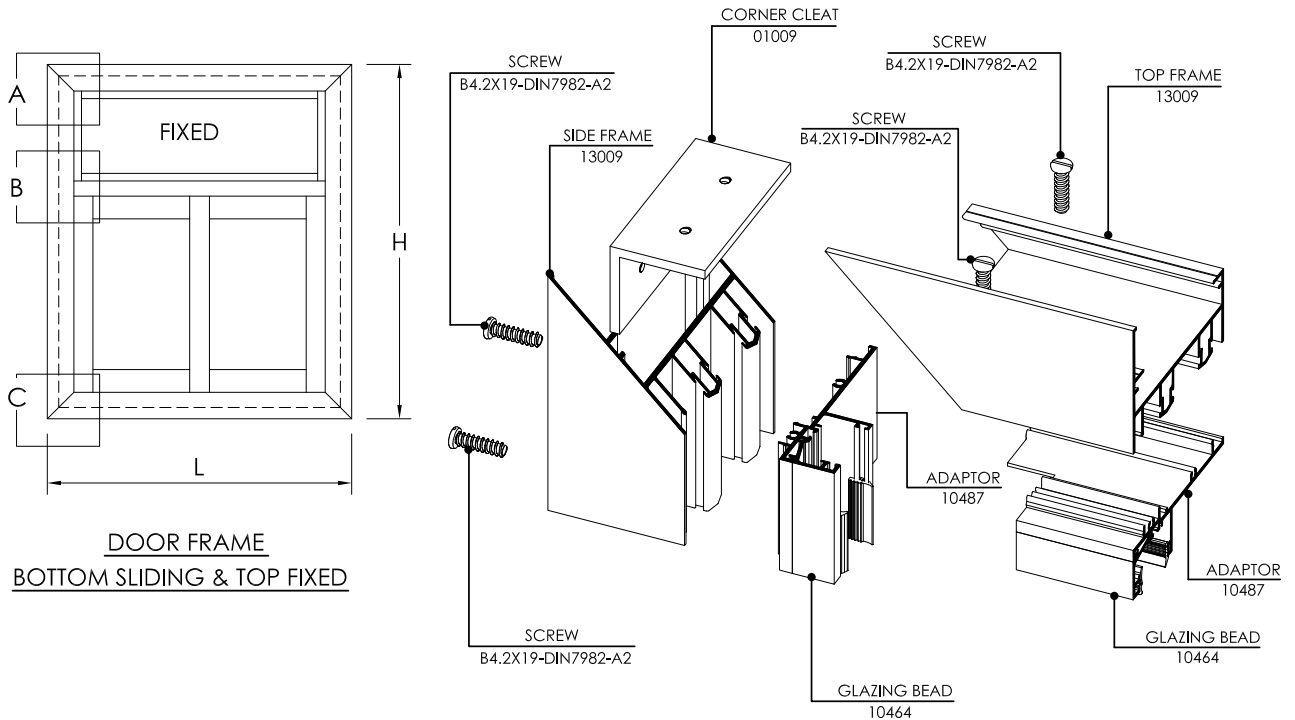
Sash Section



Sliding Frame



Sliding Door 125mm



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