

Sliding 100mm

04-2018-V.02

All rights reserved.

No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means electronic, mechanical, photocopying, recording or otherwise, without prior permission of Gulf Extrusions.

Sliding 100mm

100 - A	GULF EXTRUSIONS	03
100 - B	QUALITY AND CERTIFICATIONS	04 - 09
100 - C	INTRODUCTION TO THE SYSTEM	10
100 - D	PROFILES	11 - 72
100 - E	PROFILE LIST	73 - 108
100 - F	ACCESSORIES	109 - 111
100 - G	ASSEMBLY DRAWINGS	113 - 152
100 - H	3D SECTIONS	153 - 159

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 30,000 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

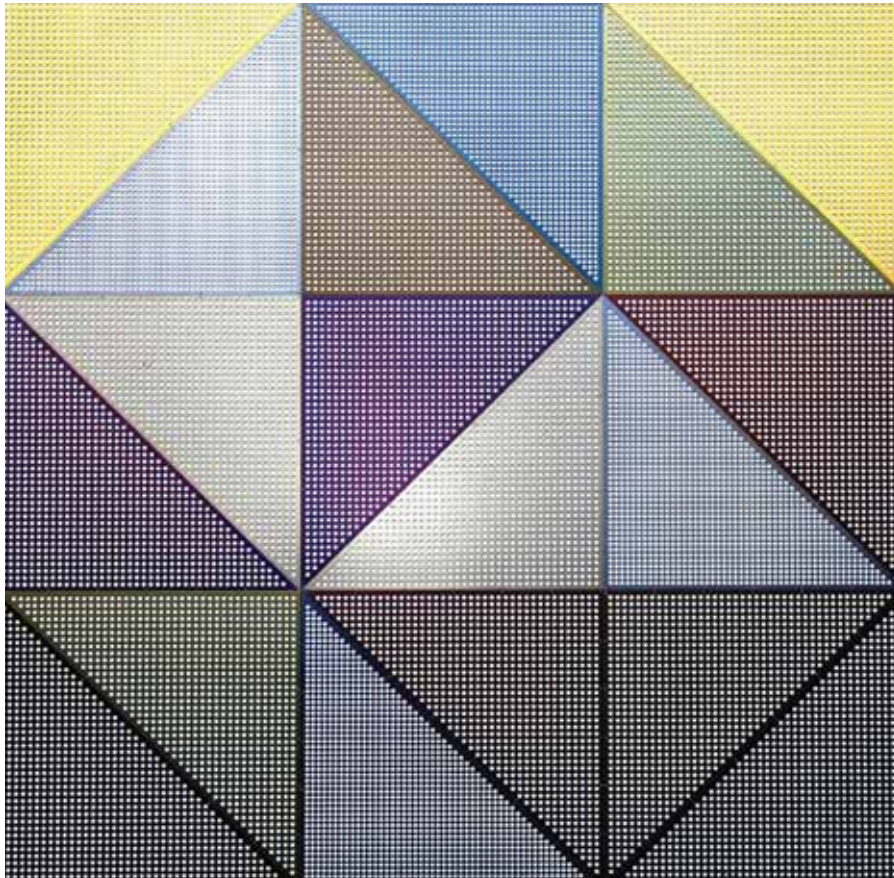
Element	Minimum	Maximum
Si	0.40	0.80
Fe	-	0.70
Cu	0.15	0.40
Mn	-	0.15
Mg	0.8	1.20
Cr	0.04	0.35
Zn	-	0.25
Ti	-	0.15
Other Each	-	0.05
Other Total	-	0.15
Aluminium	Remainder	

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. 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 01.01.2017). Architectural anodizing is one of the four types of anodizing covered by the Specifications.

Date of issue of the licence: 10.03.2000
Period of validity of the licence: until 31.12.2018

Zurich, 23 November 2017

QUALANOD

José Arenas
President

CERTIFICATION BODY

Josef Schoppig
AC-Fiduciaire SA



Phone: +41 (0)43 305 09 70
E-Mail: j.schoppig@actreu.ch
Fax: +41 (0)43 305 09 98
Website: www.qualanod.net

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

Domicile:
QUALANOD
c/o AC-Fiduciaire SA (certification body)
Tödistrasse 42, CH-8002 Zurich

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. 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 31.12.2018

Zurich, 31 October 2017

QUALICOAT

Mohammed C. Panam
President

CERTIFICATION BODY

Josef Schoppig
AC-Fiduciaire SA



Mailing address:
QUALICOAT, P.O. Box 1507, CH-8027 Zurich
Domicile:
QUALICOAT c/o AC-Fiduciaire SA, Tödistrasse 42, CH-8002 Zurich

Phone: +41 (0)43 305 09 70/79
Fax: +41 (0)43 305 09 98
E-mail: info@qualicoat.net
Internet: www.qualicoat.net

INTRODUCTION TO THE SYSTEM

100mm 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. It is designed for heavy duty use according to the American National Standard. 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 aluminium on a wide range of presses starting with 800 tons to 4400 tons press. They are made of aluminium 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 100mm, a wide range of frames are available to suit most of the required applications in the building codes. Fly screen rail is embedded in the frames. It is made for internal and external fly screen depending on the project requirements.

Sash:

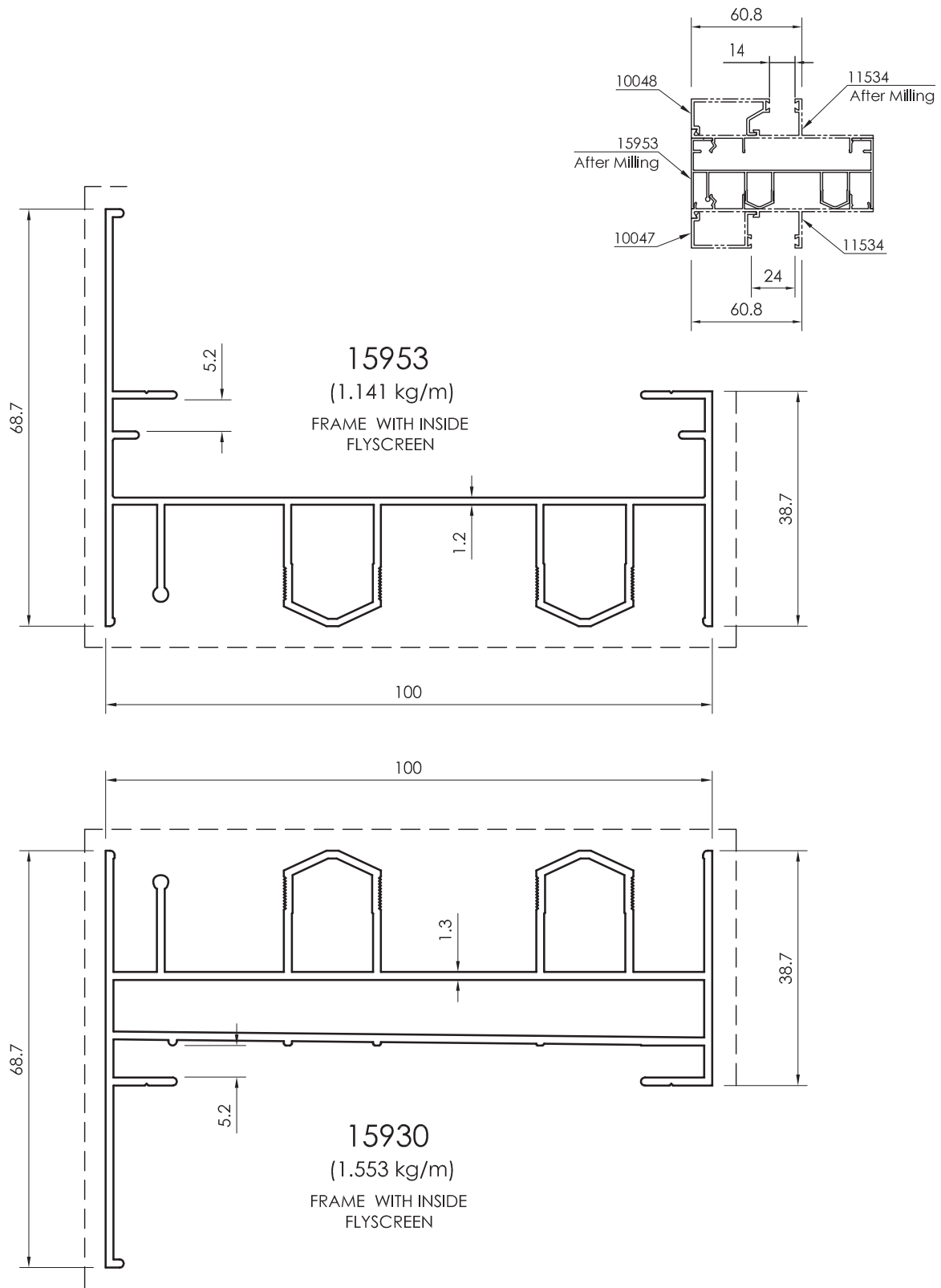
Tubular straight, elegant and stylish. A wide range is available to cover all the needed applications and glass thickness.

Assembly:

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

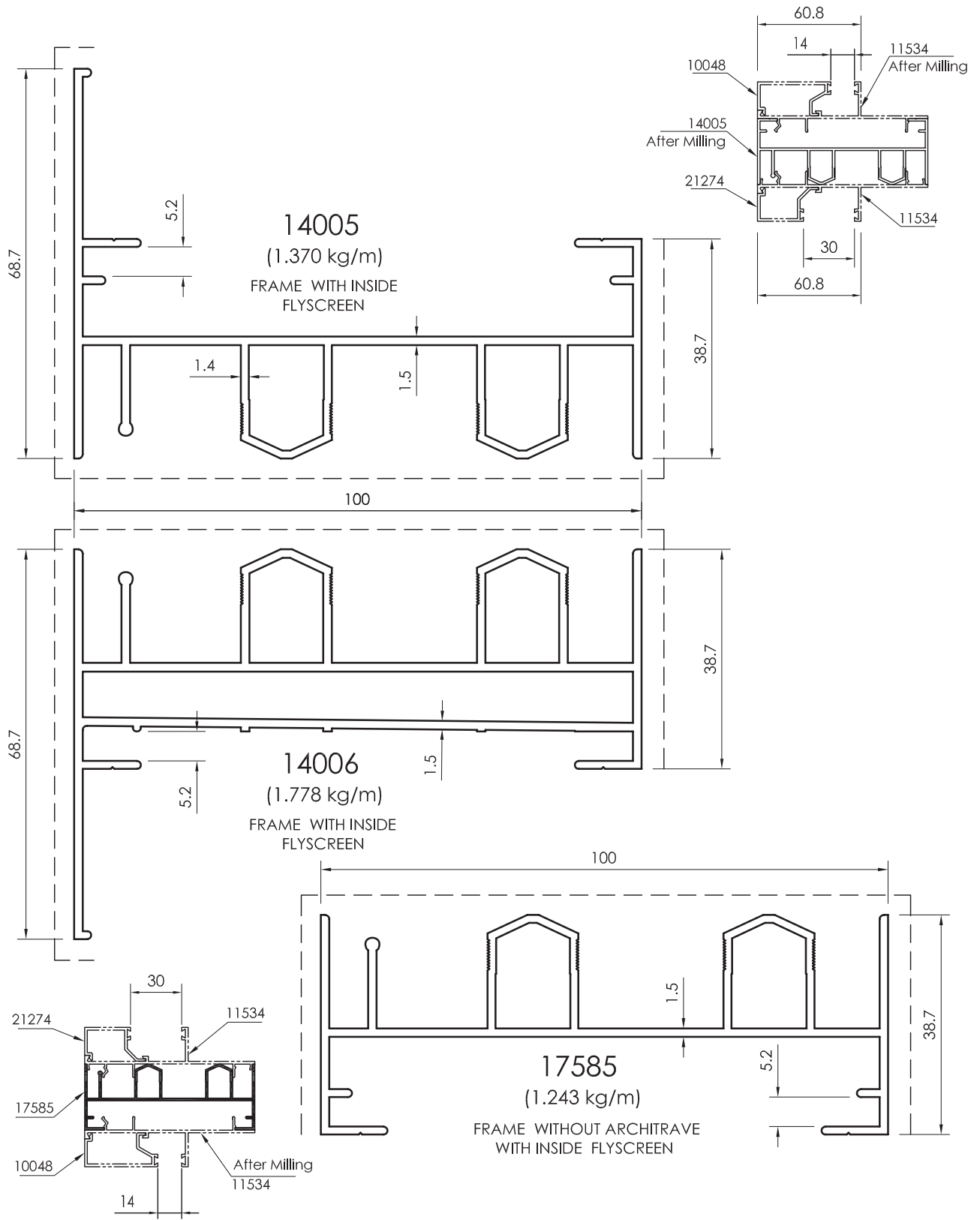
PROFILES

Frame Profiles



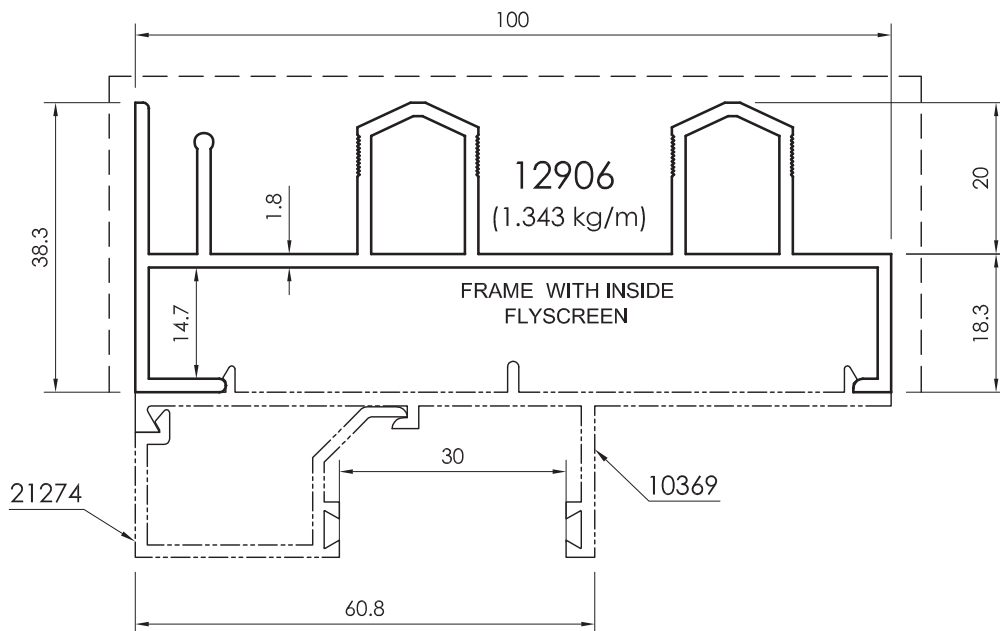
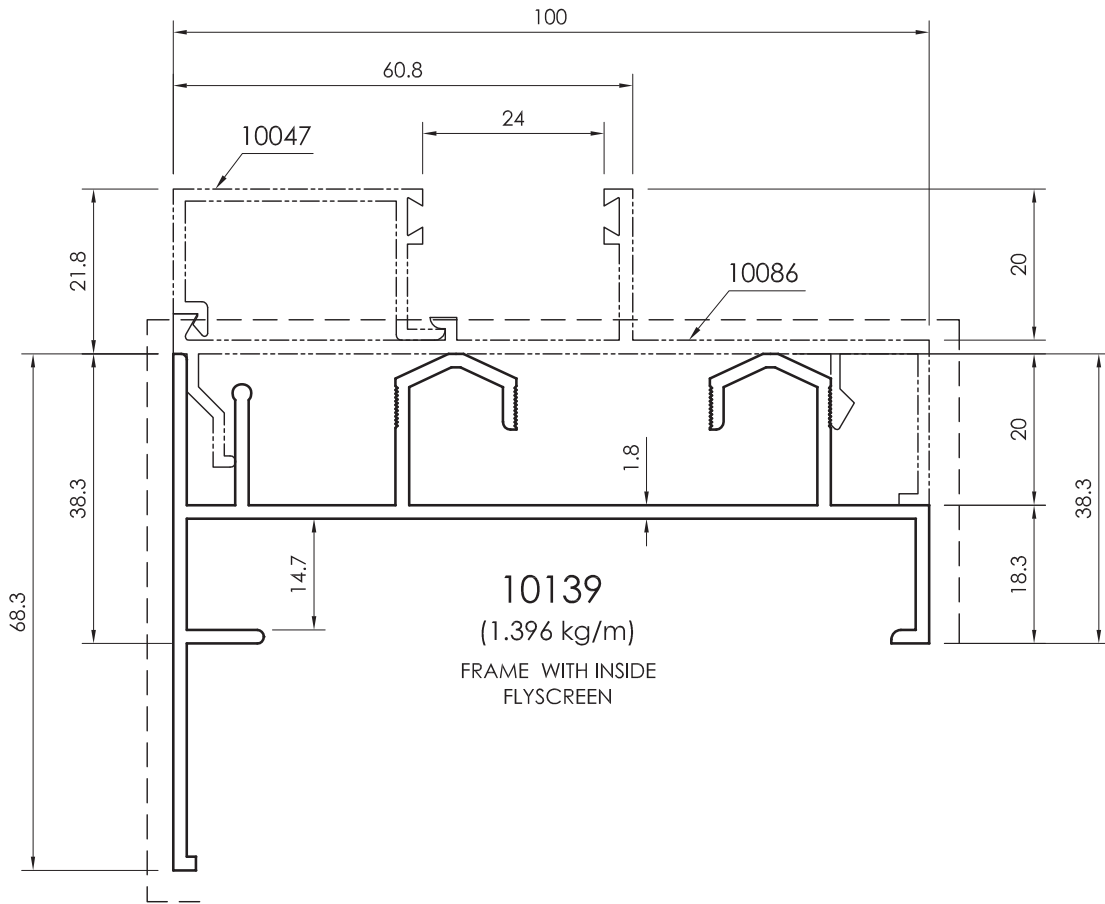
All dimensions in mm
Visible area_____

Frame Profiles



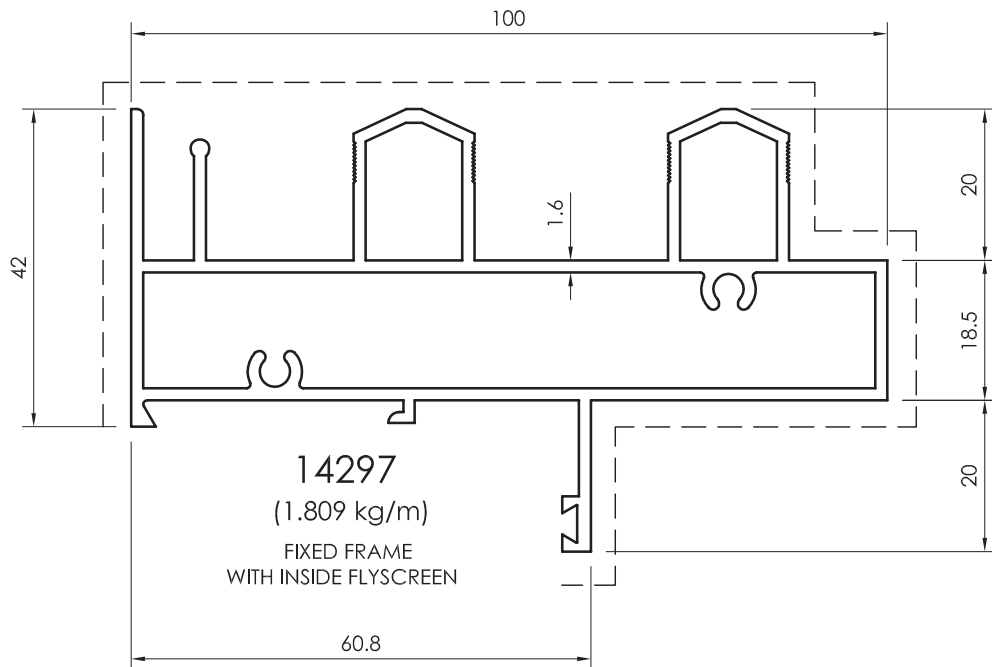
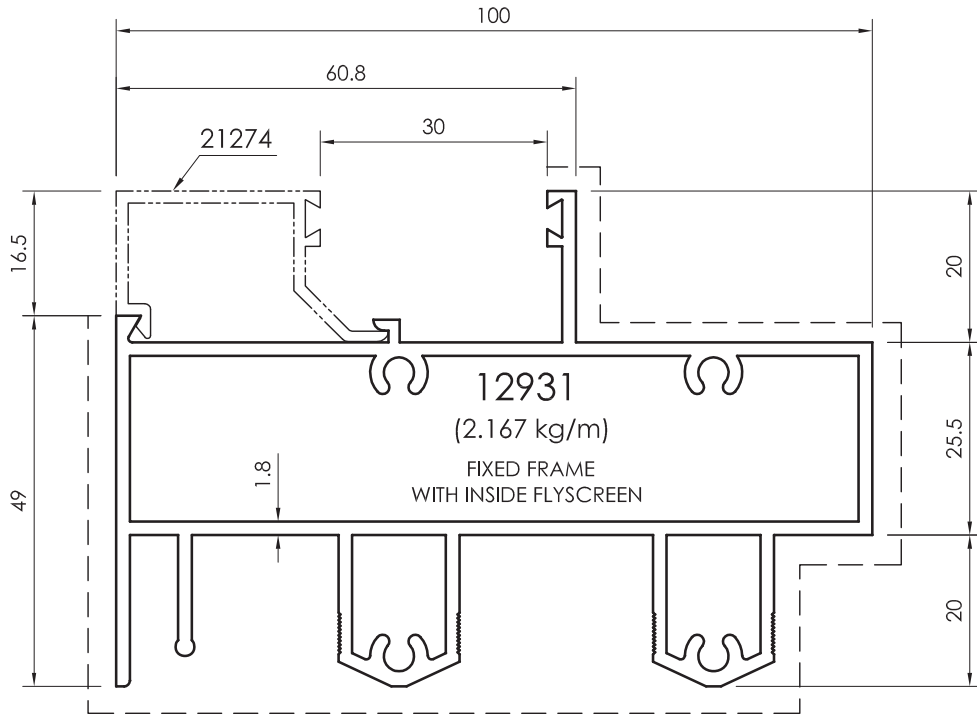
All dimensions in mm
----- Visible area

Frame Profiles



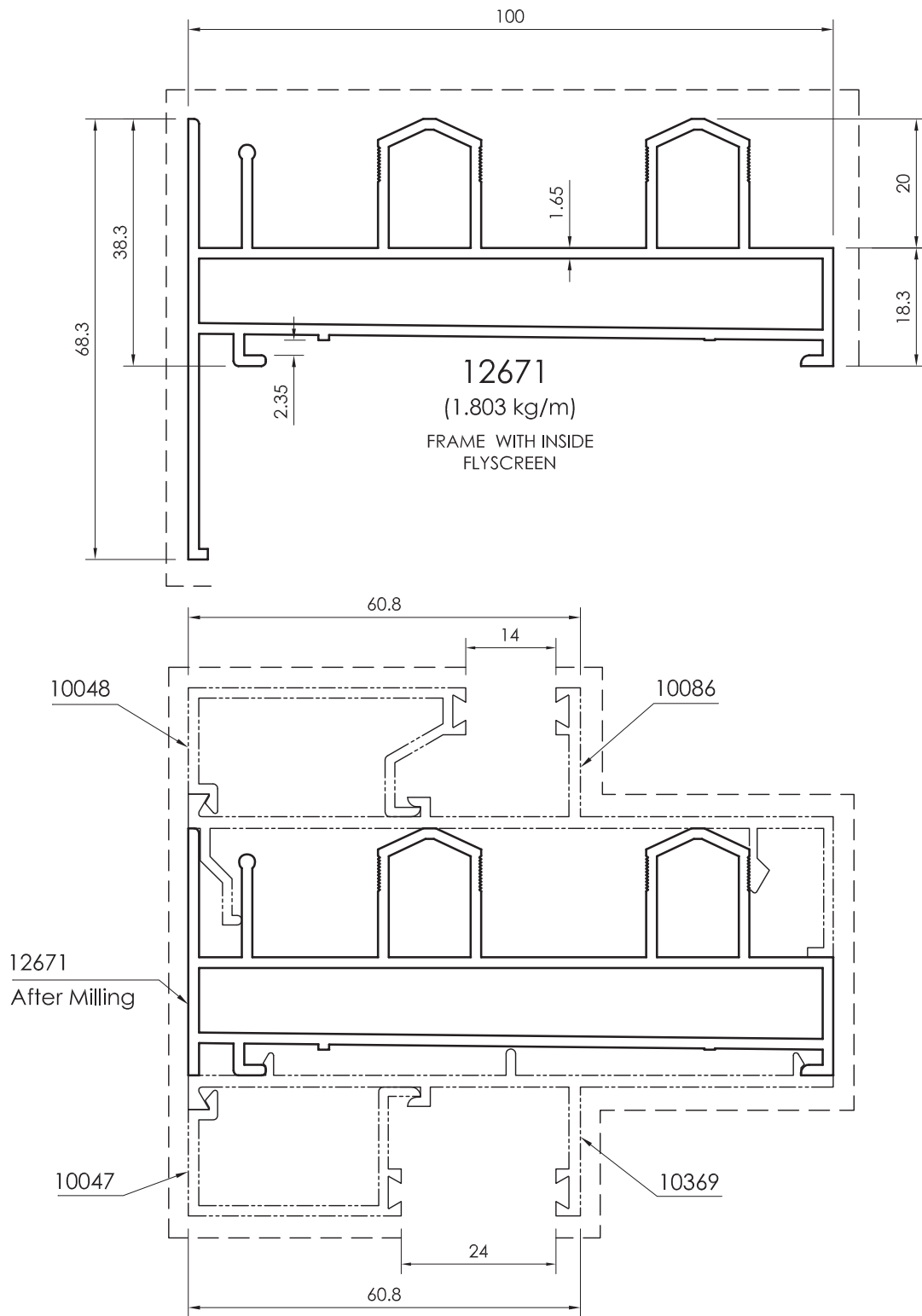
All dimensions in mm
Visible area_-----

Frame Profiles



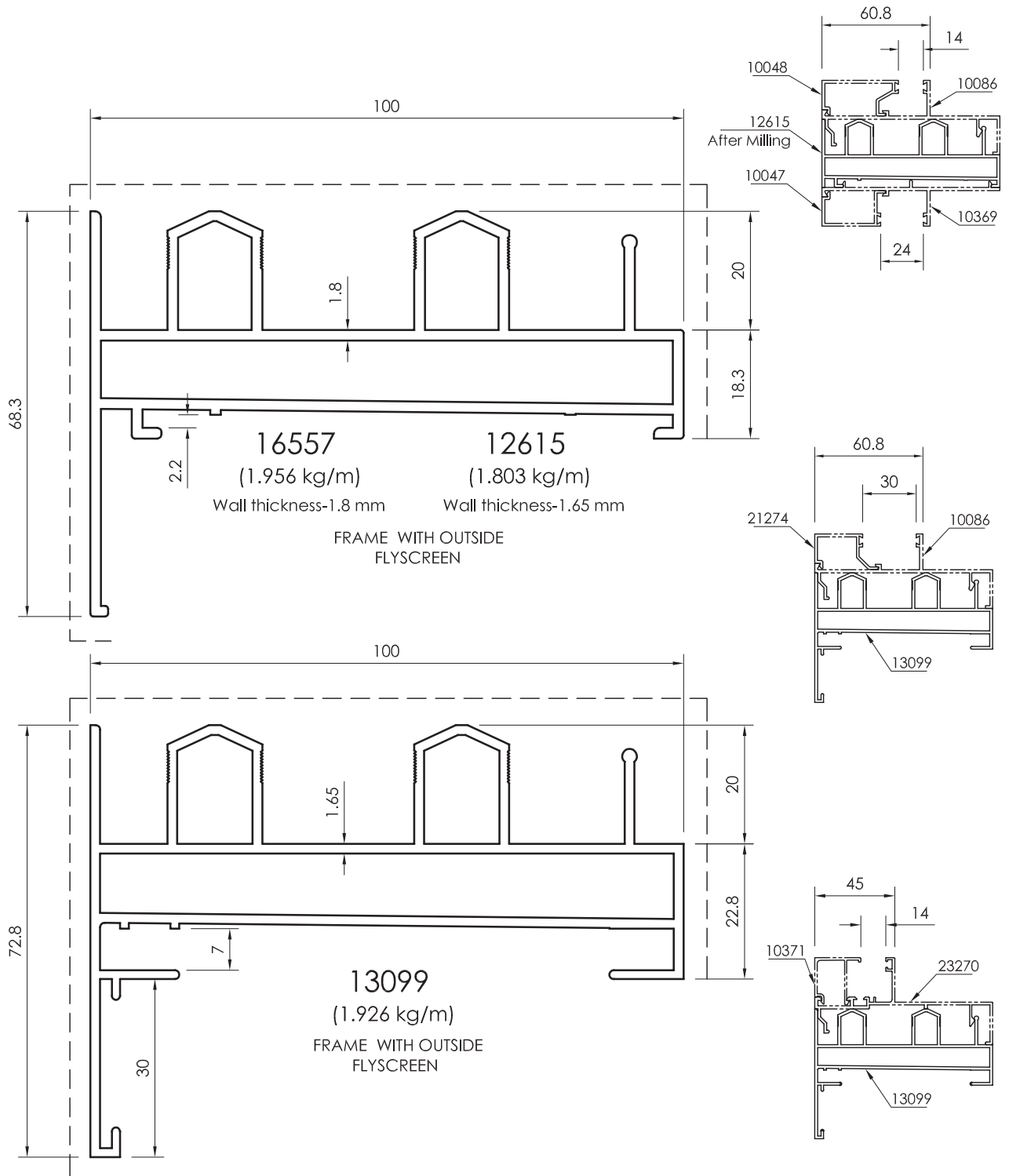
All dimensions in mm
----- Visible area

Frame Profiles



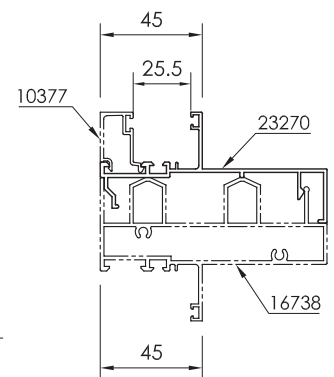
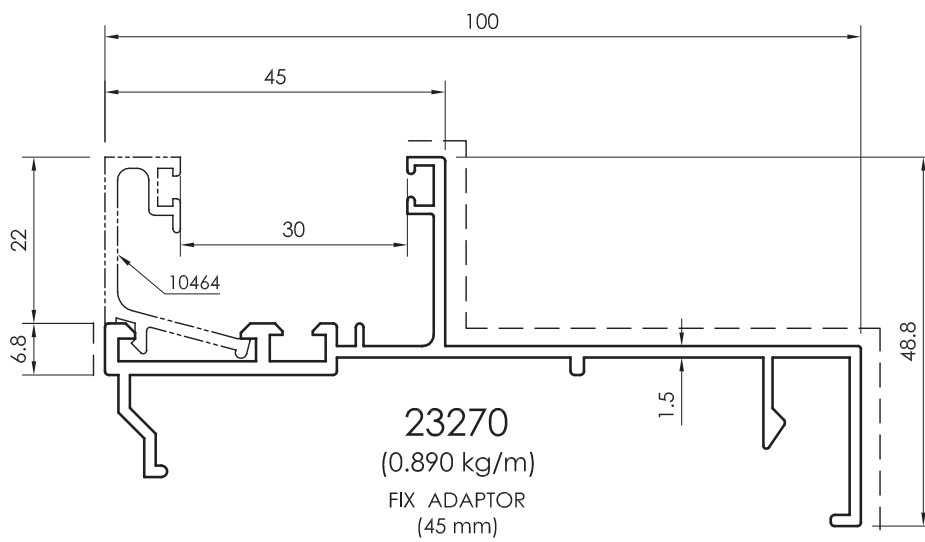
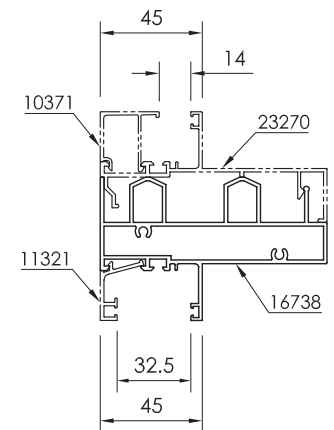
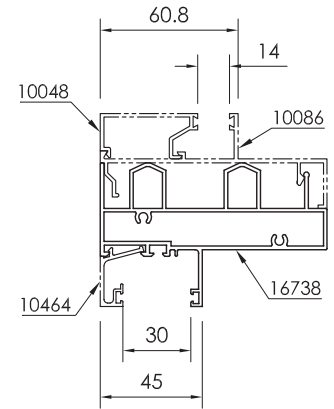
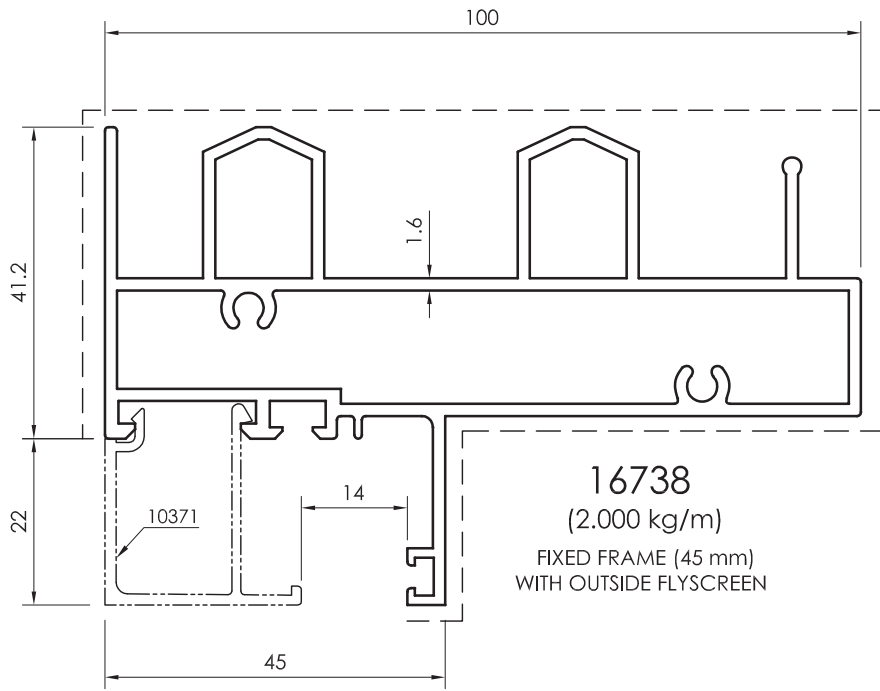
All dimensions in mm
Visible area_-----

Frame Profiles



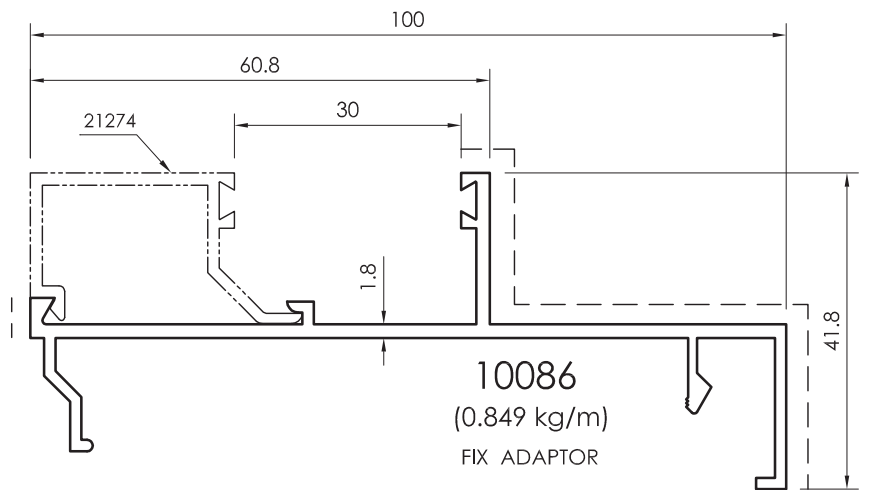
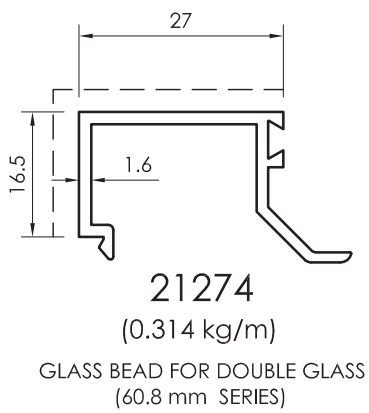
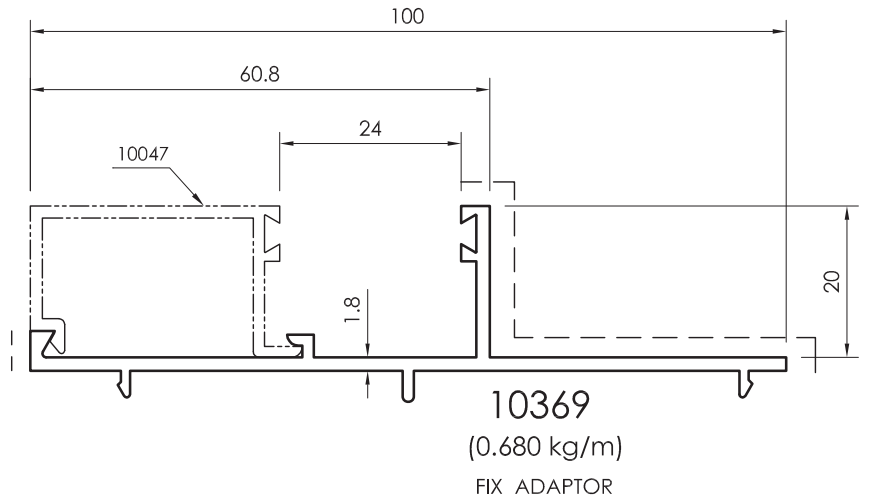
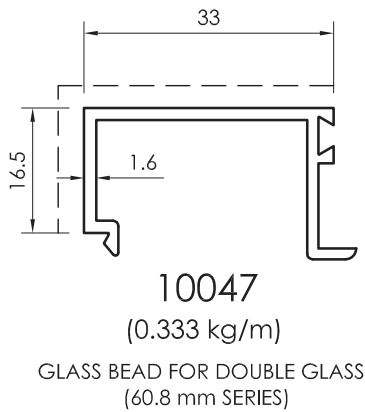
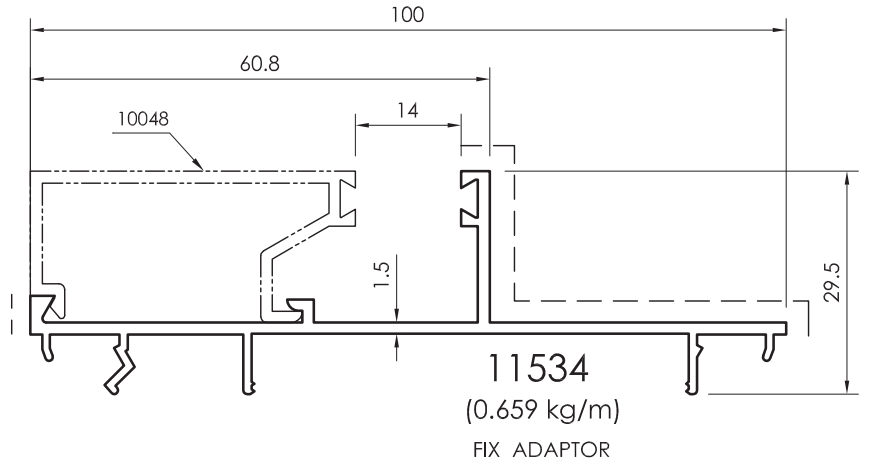
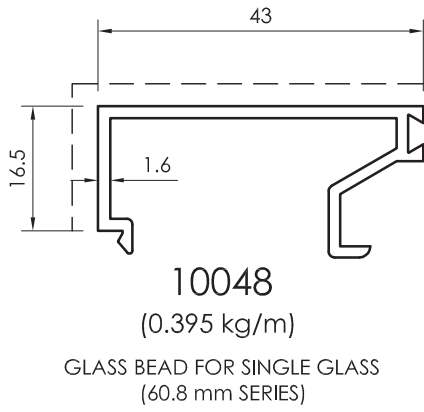
All dimensions in mm
 - - - - - Visible area

Frame / Adaptor Profiles



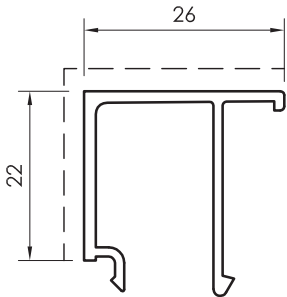
All dimensions in mm
Visible area_____

Adaptor / Glass Bead Profiles

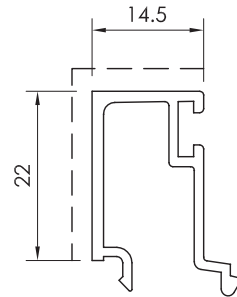


All dimensions in mm
----- Visible area

Glass Bead Profiles



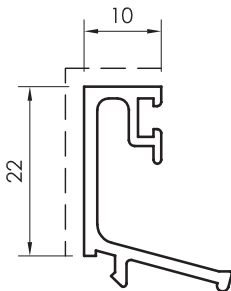
10371
 (0.298 kg/m)
 Wall thickness-1.5 mm
 FOR 6-8 mm SINGLE GLASS
 (45 mm SERIES)



22927
 (0.269 kg/m)
 Wall thickness-1.2 mm
 FOR 20 mm DOUBLE GLASS
 (45 mm SERIES)

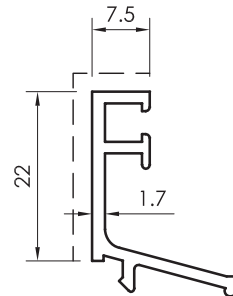
10377
 (0.282 kg/m)
 Wall thickness-1.5 mm

23195
 (0.258 kg/m)
 Wall thickness-1.2 mm

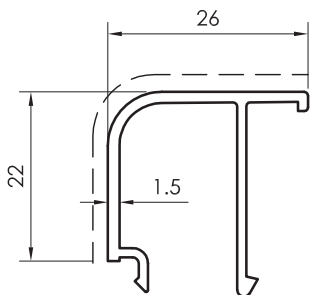


10464
 (0.271 kg/m)
 Wall thickness-1.7 mm
 FOR 24mm DOUBLE GLASS
 (45 mm SERIES)

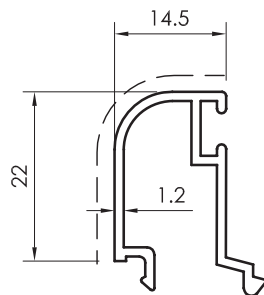
22928
 (0.226 kg/m)
 Wall thickness-1.2 mm



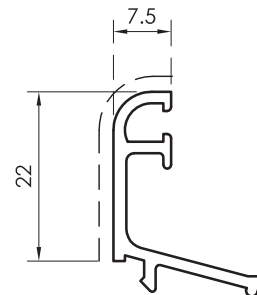
11321
 (0.251 kg/m)
 FOR 28 mm DOUBLE GLASS
 (45 mm SERIES)



11730
 (0.286 kg/m)
 FOR 6-8 mm SINGLE GLASS
 (45 mm SERIES)



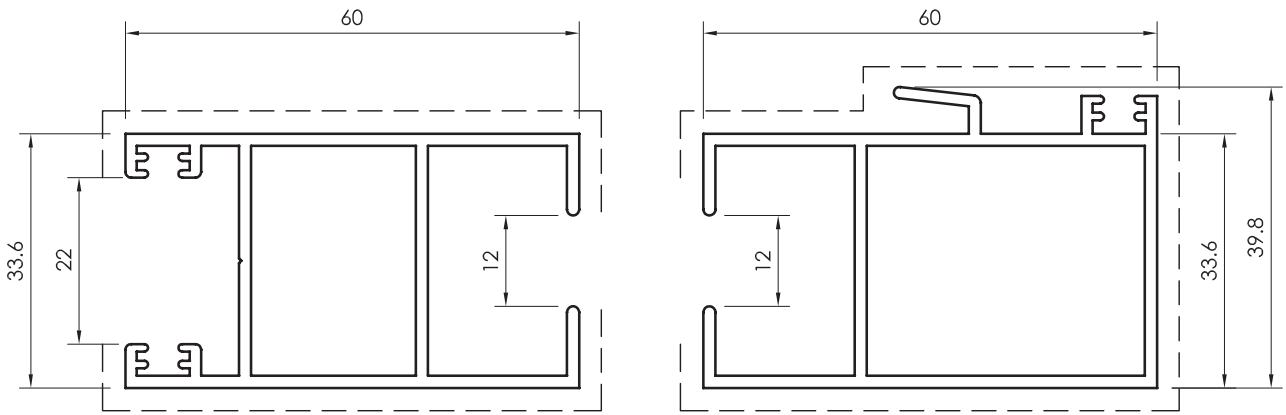
23194
 (0.249 kg/m)
 FOR 20 mm DOUBLE GLASS
 (45 mm SERIES)



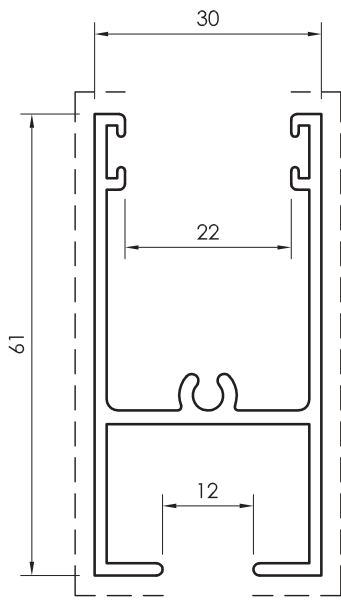
11729
 (0.242 kg/m)
 FOR 28 mm DOUBLE GLASS
 (45 mm SERIES)

All dimensions in mm
 Visible area_____

Sash Profiles
For Single Glass

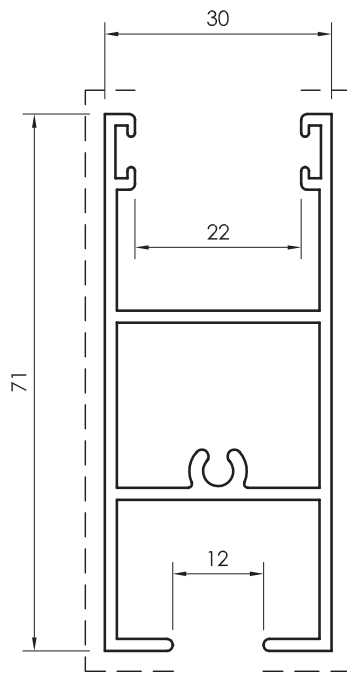


12616 (0.957 kg/m) Wall thickness-1.6 mm	14124 (0.909 kg/m) Wall thickness-1.5 mm	12617 (0.974 kg/m) Wall thickness-1.6 mm	14125 (0.937 kg/m) Wall thickness-1.5 mm
---	---	---	---



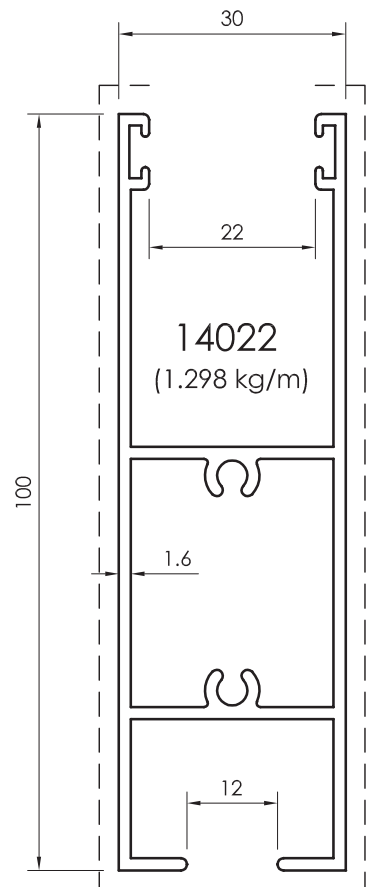
10010
(0.826 kg/m)
Wall thickness-1.6 mm

11702
(0.770 kg/m)
Wall thickness-1.5 mm



12669
(1.011 kg/m)
Wall thickness-1.6 mm

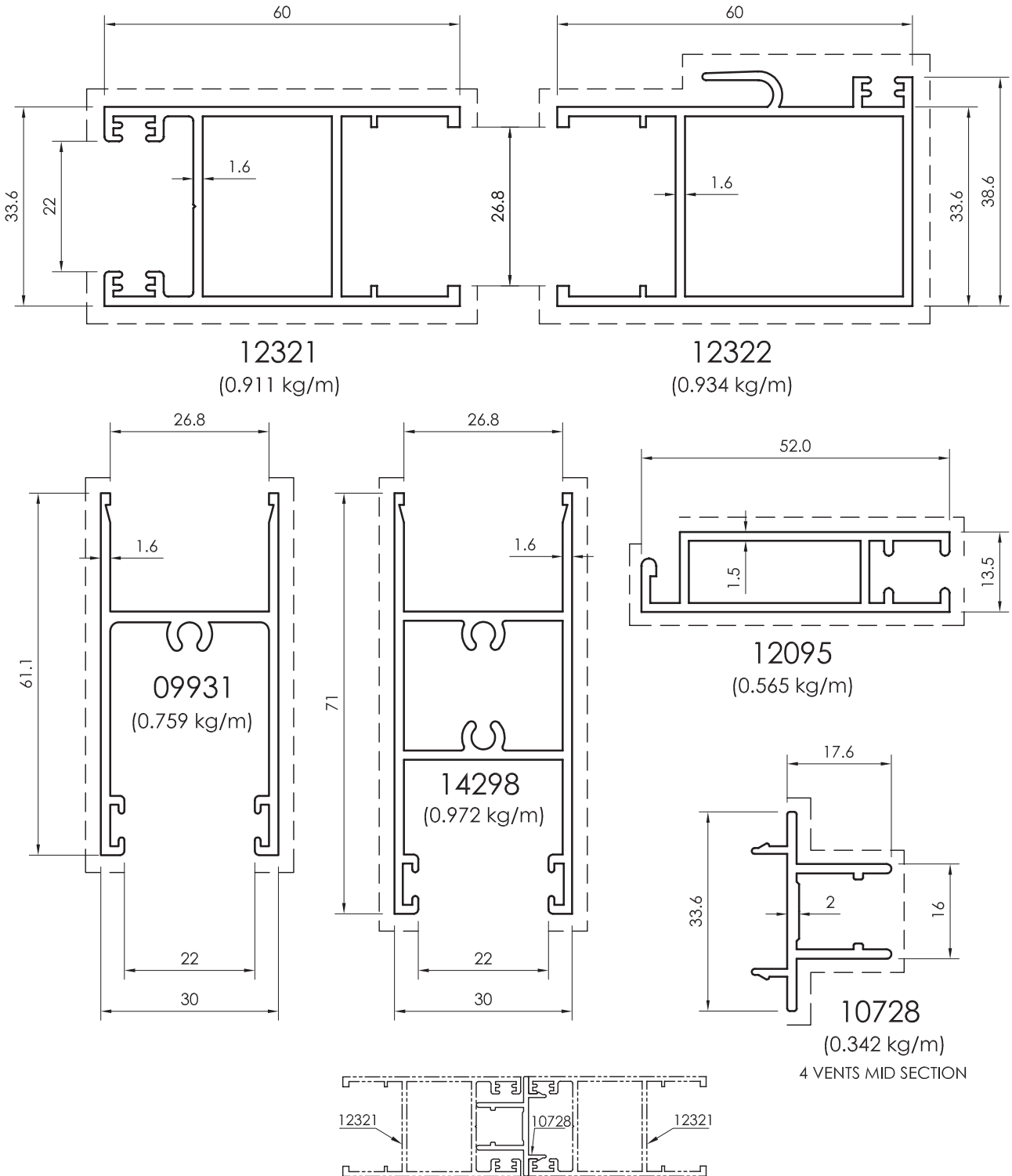
14126
(0.958 kg/m)
Wall thickness-1.5 mm



14022
(1.298 kg/m)

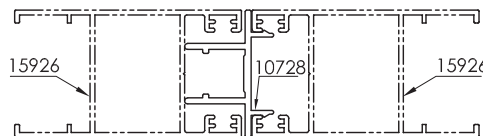
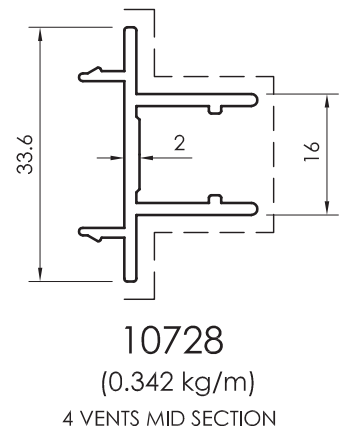
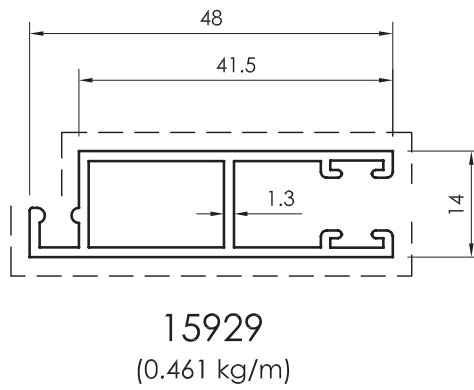
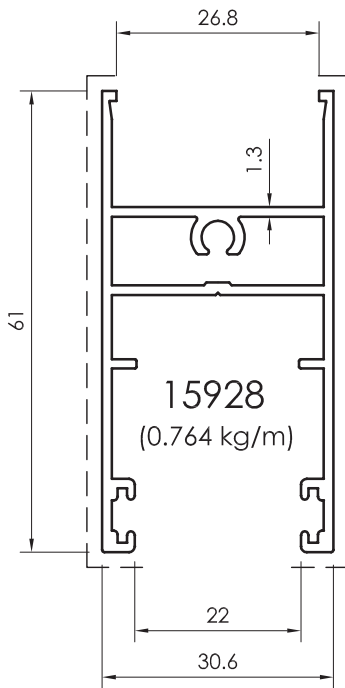
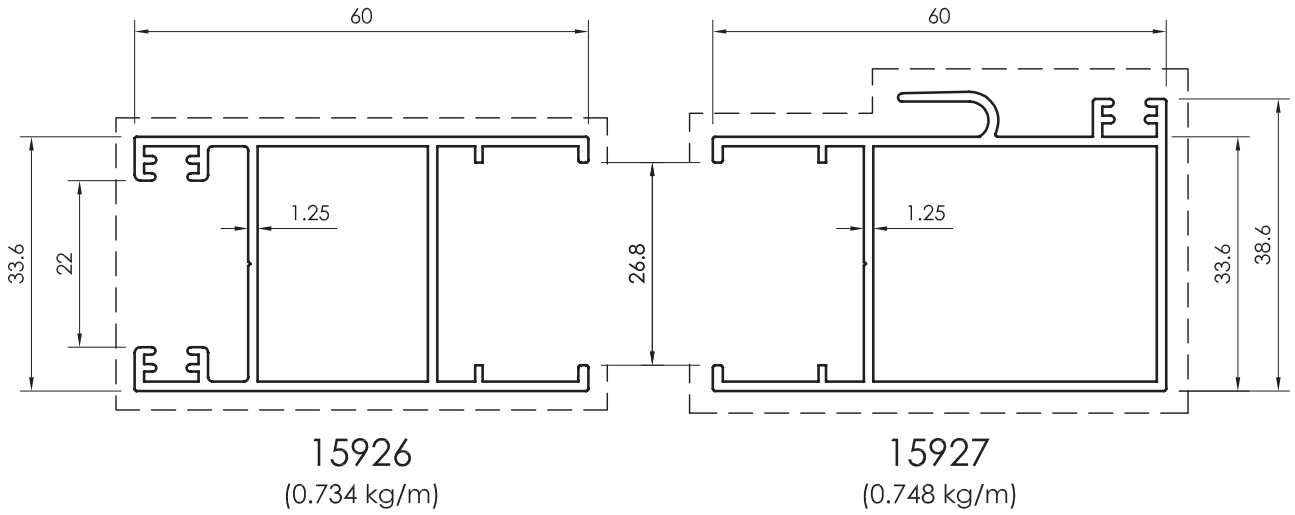
All dimensions in mm
----- Visible area

Sash Profiles
For Double Glass



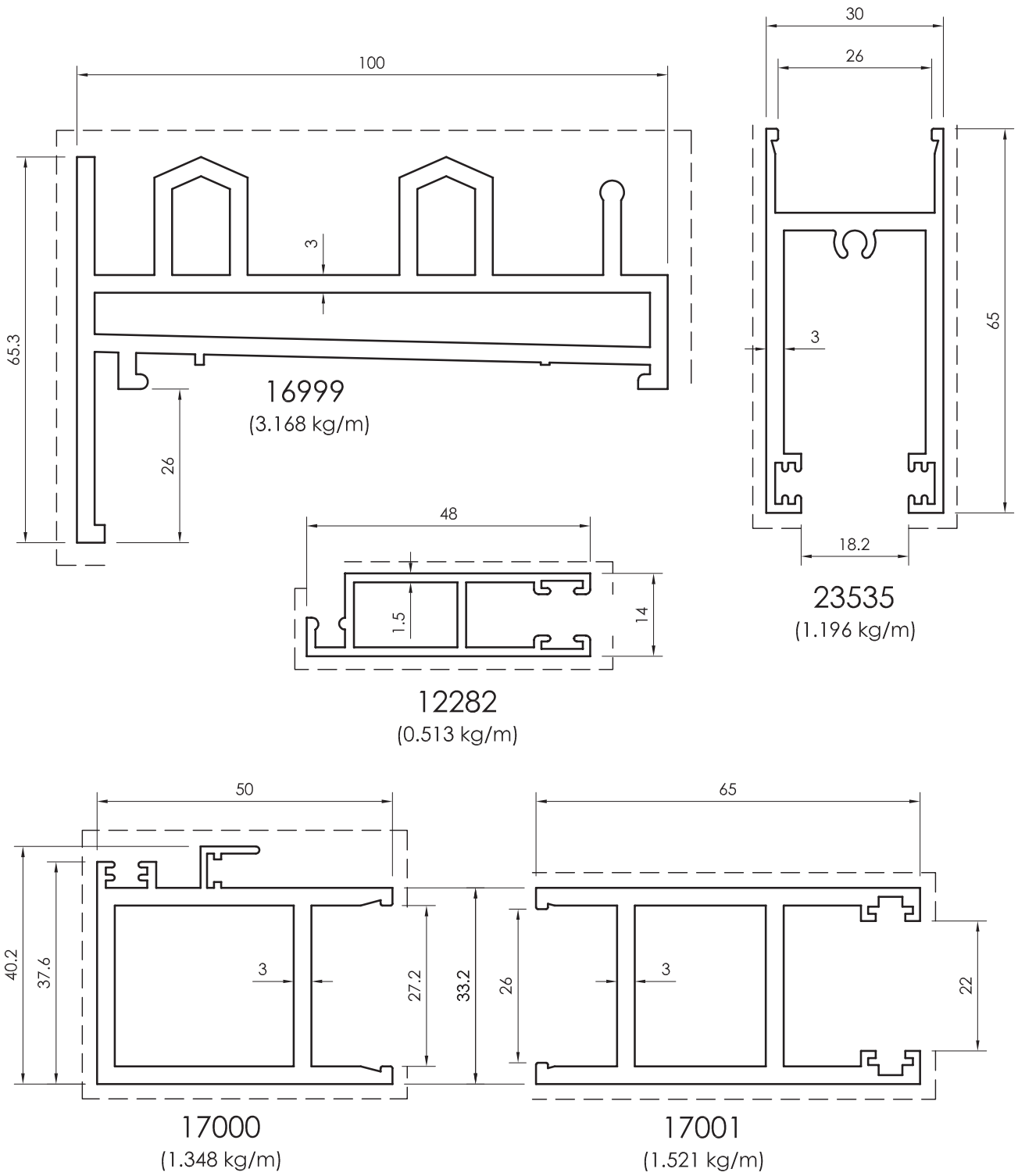
All dimensions in mm
Visible area _____

Sash Profiles
For Double Glass



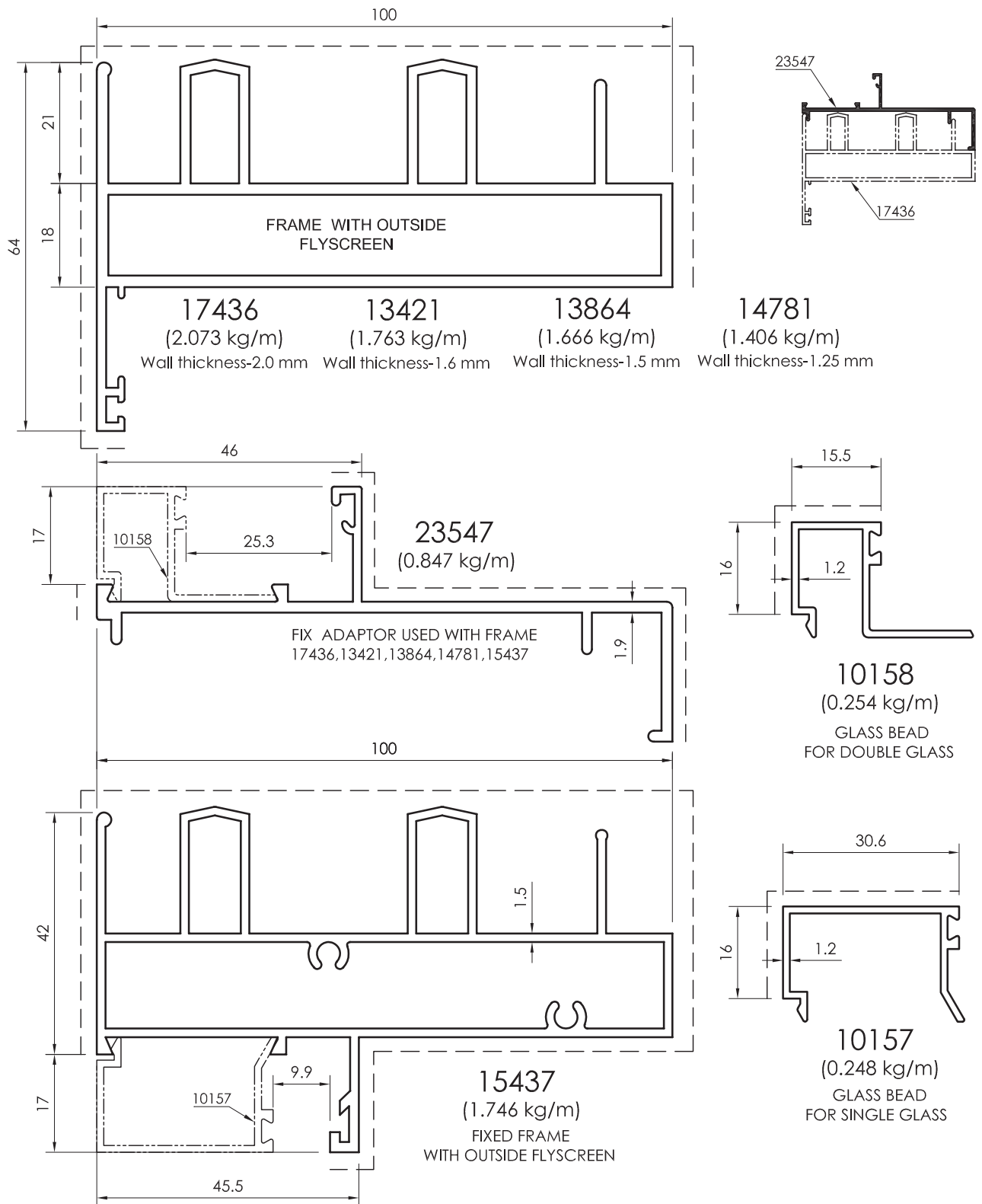
All dimensions in mm
----- Visible area

Frame With Outside Flyscreen & Sash Profiles - 3mm



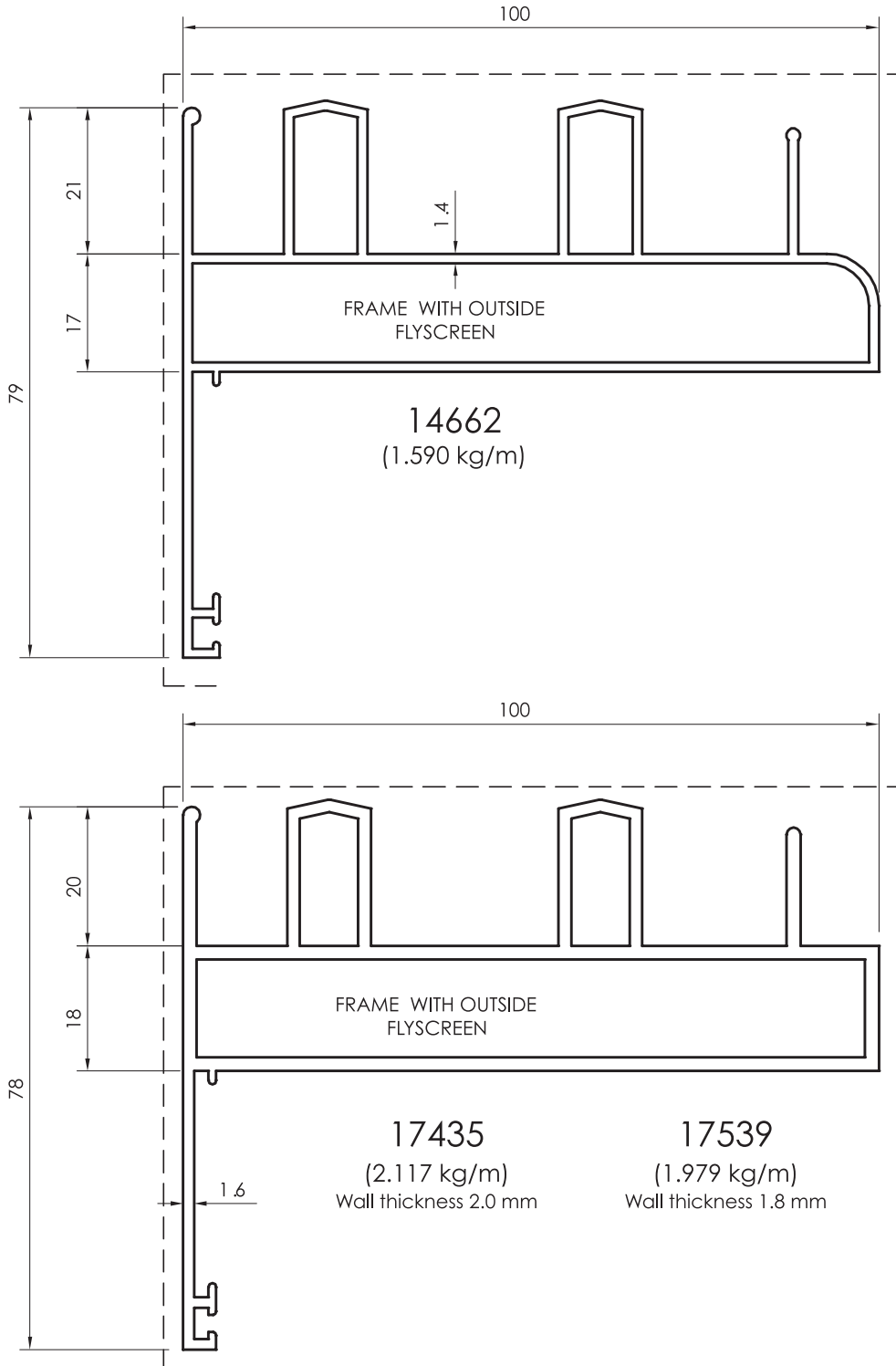
All dimensions in mm
Visible area_____

Frame / Adaptor Profiles



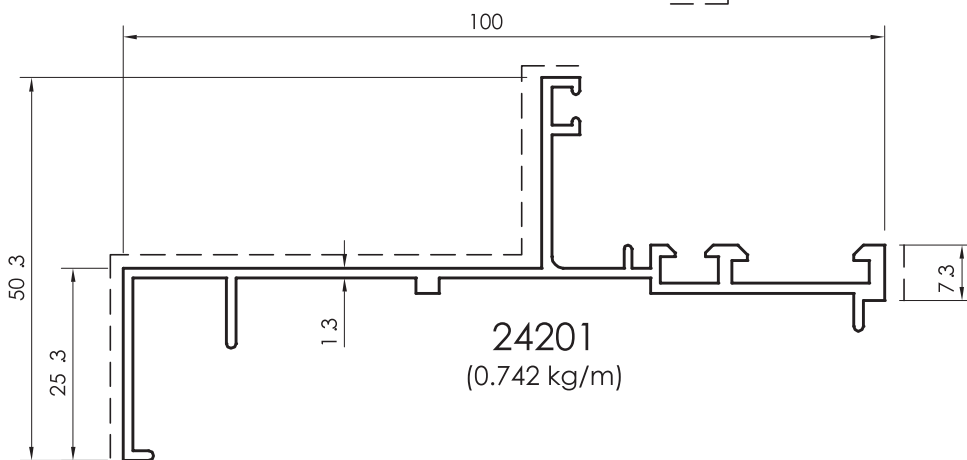
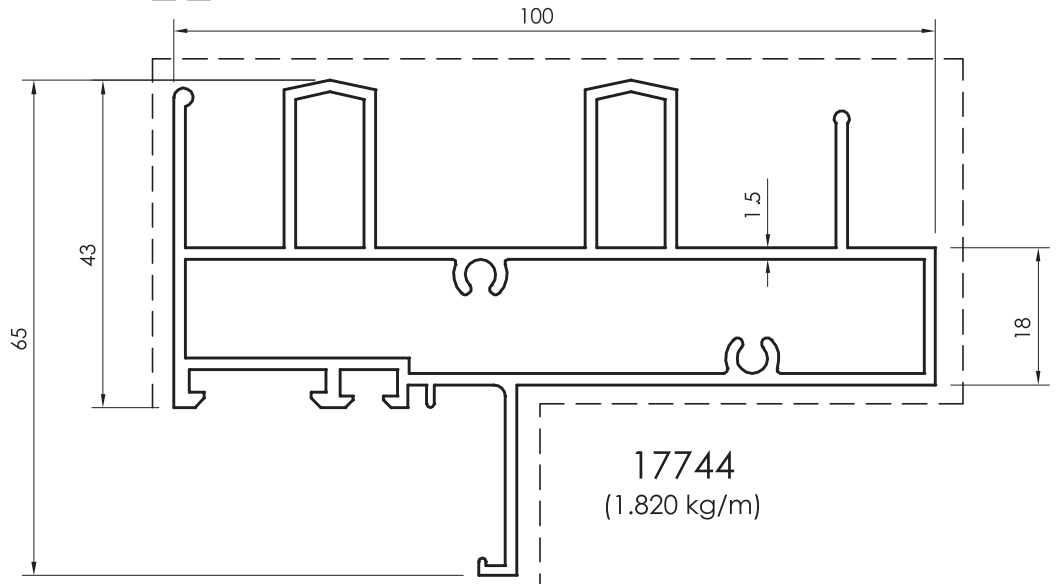
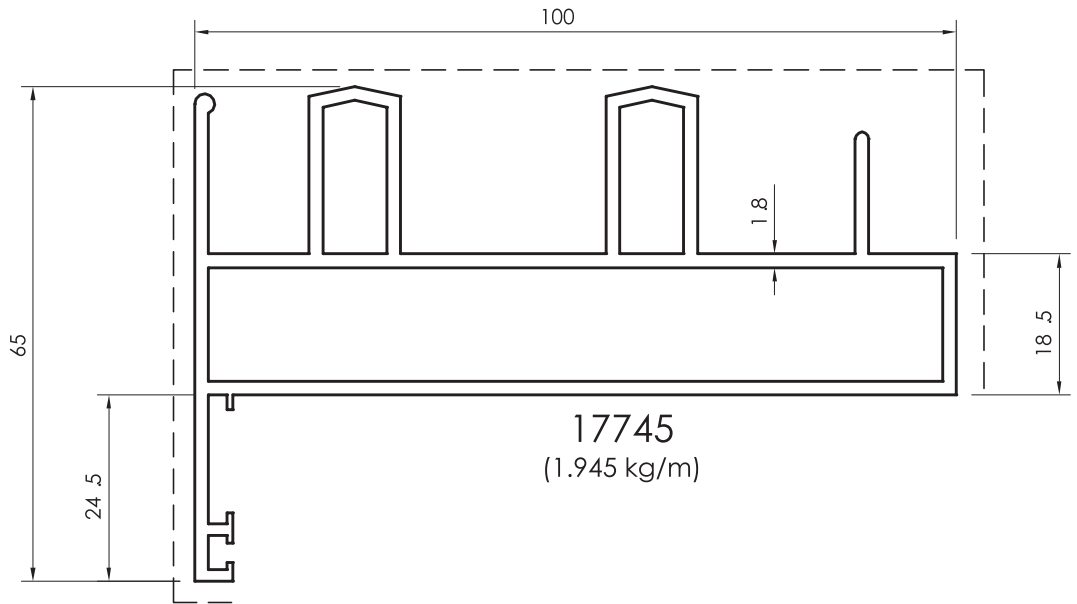
All dimensions in mm
 ----- Visible area

Frame Profiles



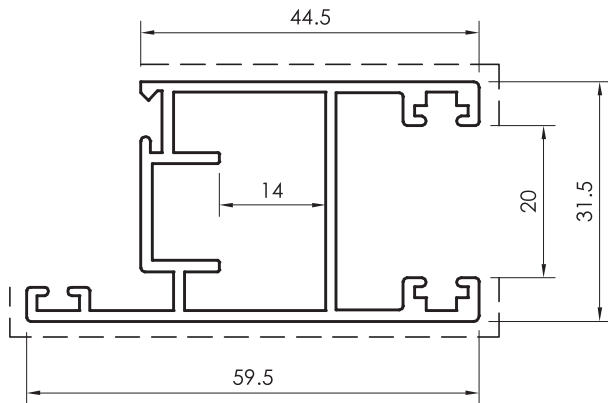
All dimensions in mm
Visible area_-----

Frame / Adaptor Profiles



All dimensions in mm
 ----- Visible area

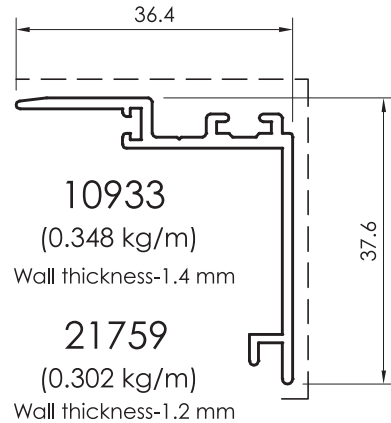
Sash Profiles



13422
(0.850 kg/m)
Wall thickness-1.4 mm

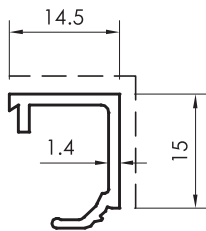
13865
(0.796 kg/m)
Wall thickness-1.3 mm

15230
(0.728 kg/m)
Wall thickness-1.2 mm

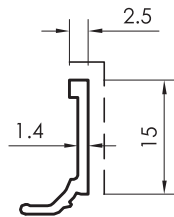


10933
(0.348 kg/m)
Wall thickness-1.4 mm

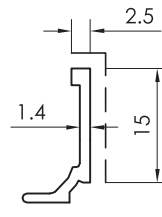
21759
(0.302 kg/m)
Wall thickness-1.2 mm



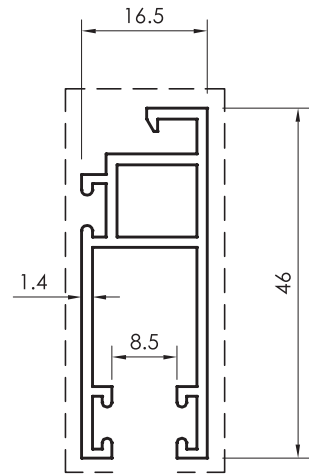
10934
(0.154 kg/m)
Glass bead for Single Glass



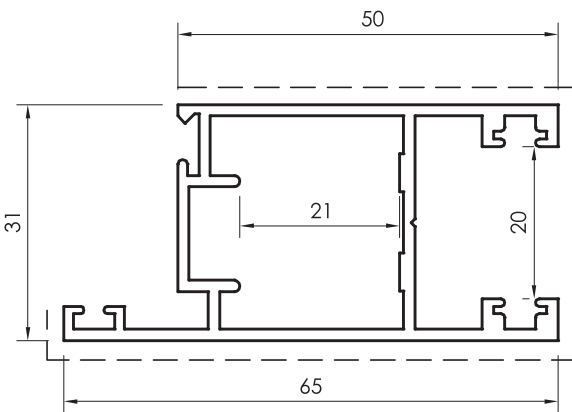
10935
(0.096 kg/m)
Glass bead for Double Glass



25410
(0.098 kg/m)
Glass bead for Double Glass

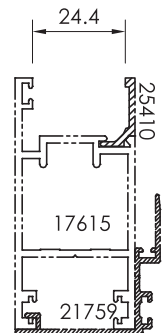
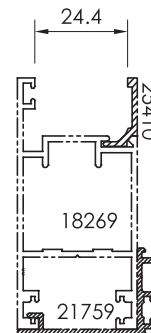
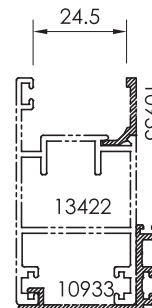
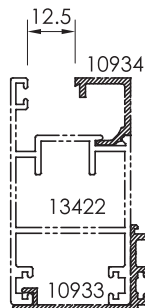


13423
(0.510 kg/m)
Wall thickness-1.4 mm



18269
(0.907 kg/m)
Wall thickness-1.5 mm

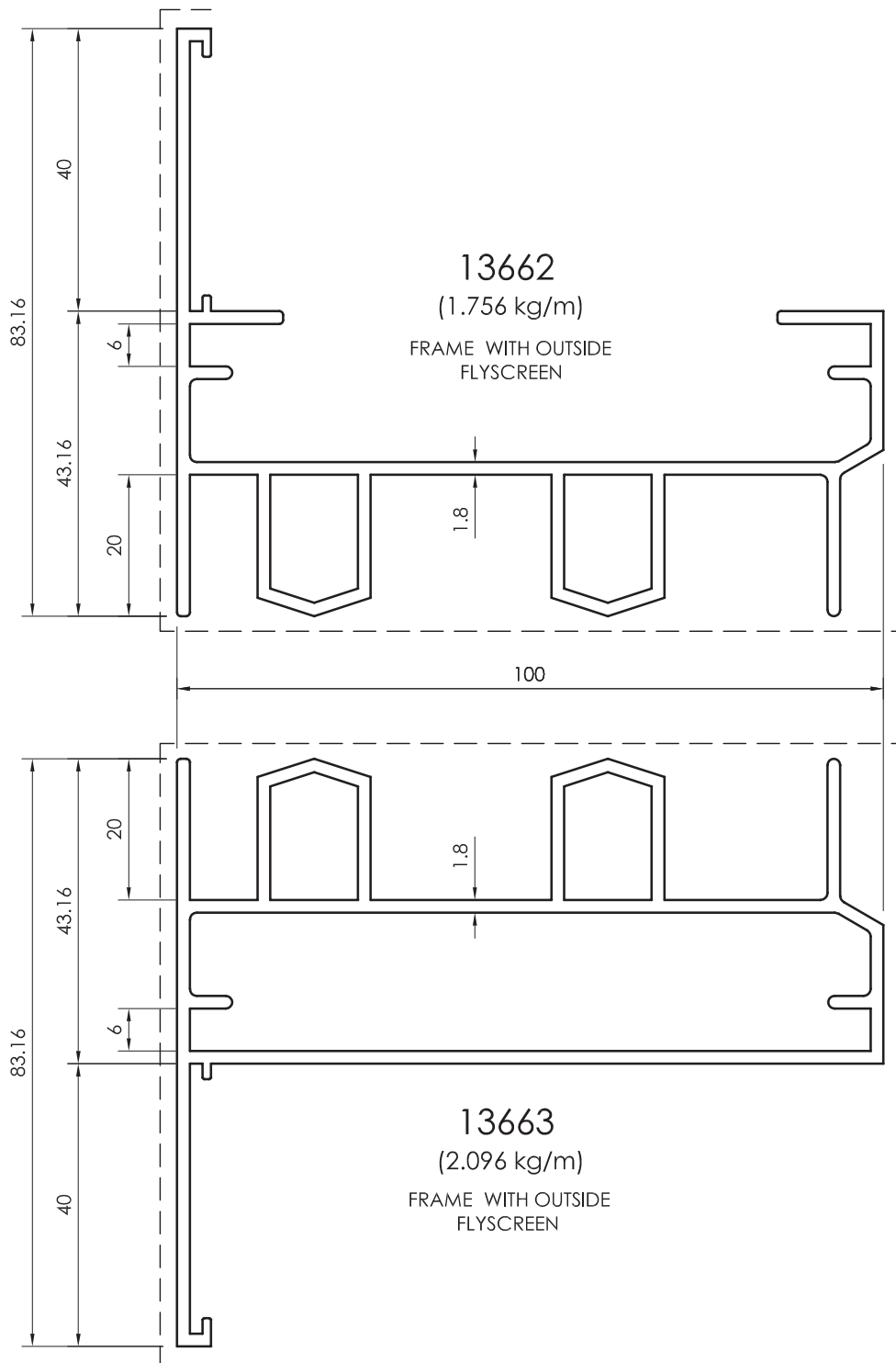
17615
(1.023 kg/m)
Wall thickness-1.8 mm



13810
(0.478 kg/m)
Wall thickness-1.35 mm

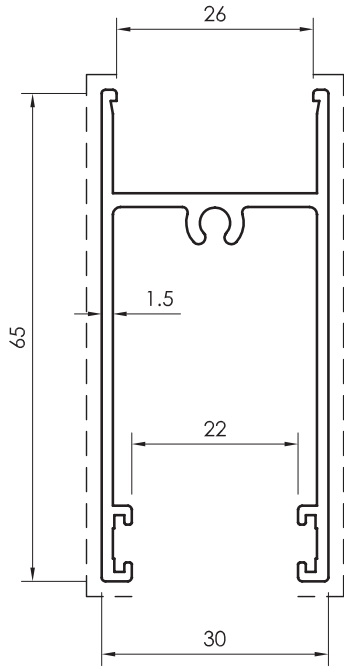
All dimensions in mm
Visible area_-----

Frame Profiles

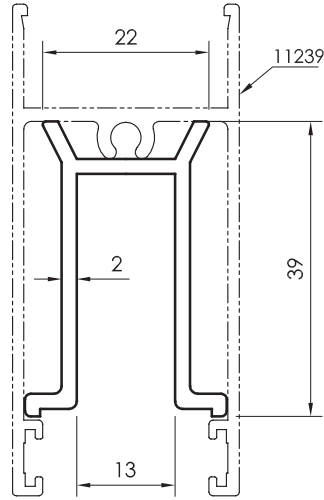


All dimensions in mm
----- Visible area

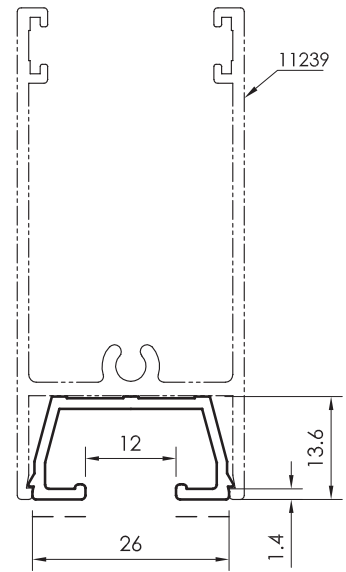
Sash Profiles



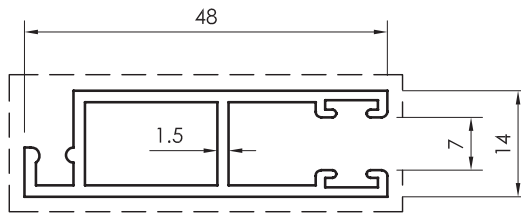
11239
(0.764 kg/m)



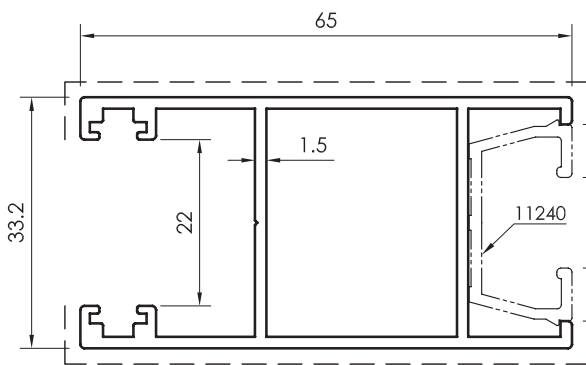
11254
(0.549 kg/m)
REINFORCEMENT
PROFILE



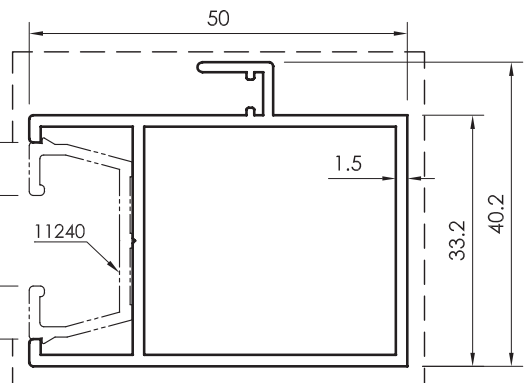
11240
(0.228 kg/m)
SINGLE GLASS
ADAPTOR



12282
(0.513 kg/m)



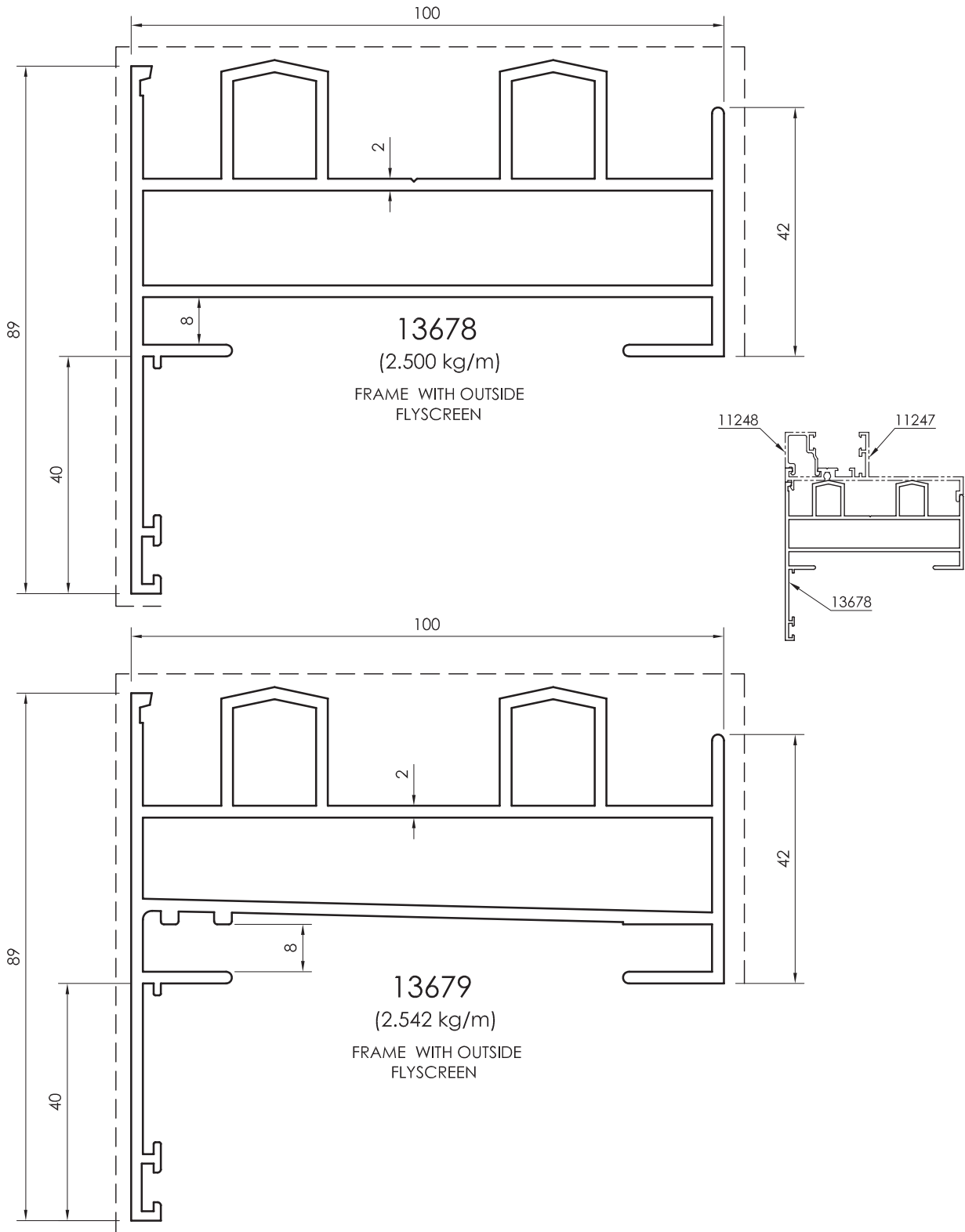
13664
(0.889 kg/m)



13665
(0.726 kg/m)

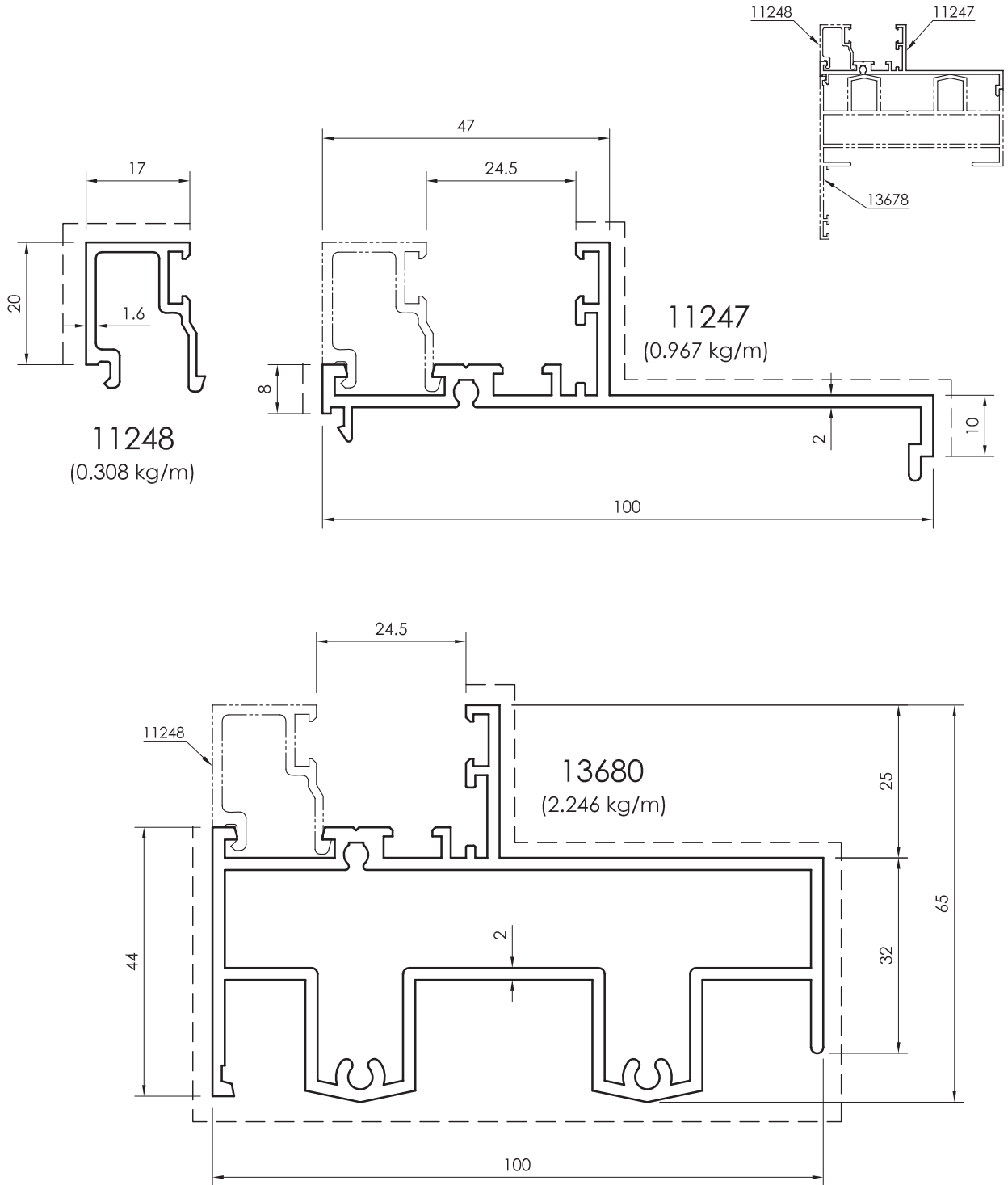
All dimensions in mm
Visible area_-----

Frame Profiles



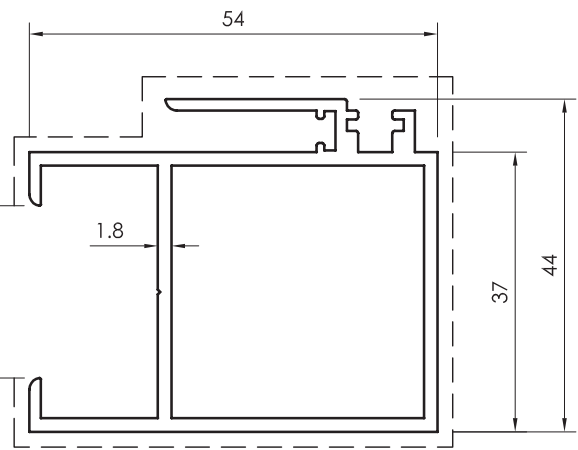
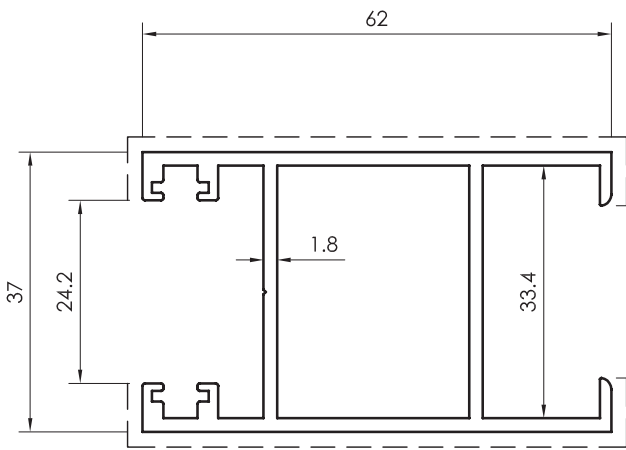
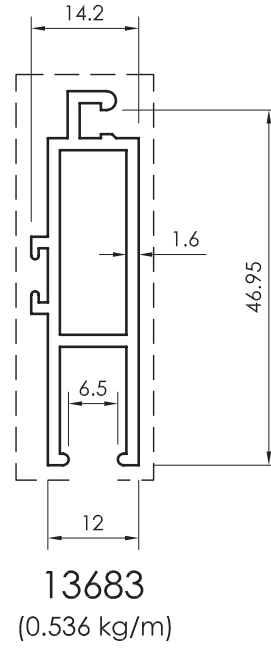
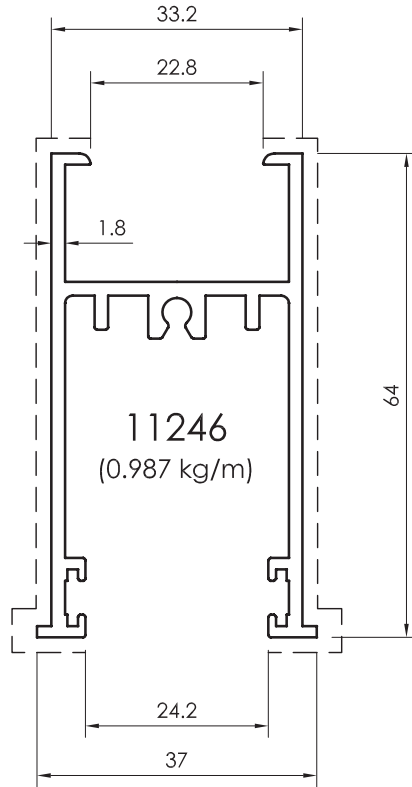
All dimensions in mm
-----Visible area

Frame / Adaptor Profiles



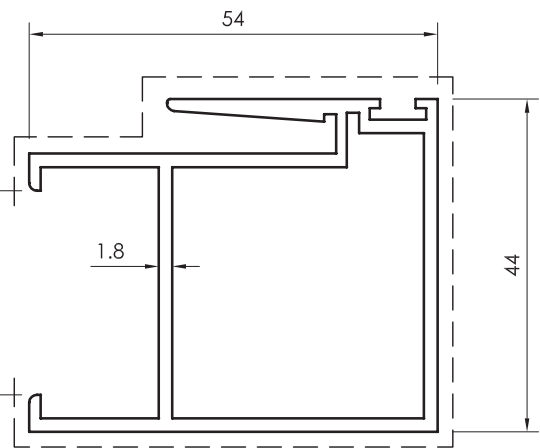
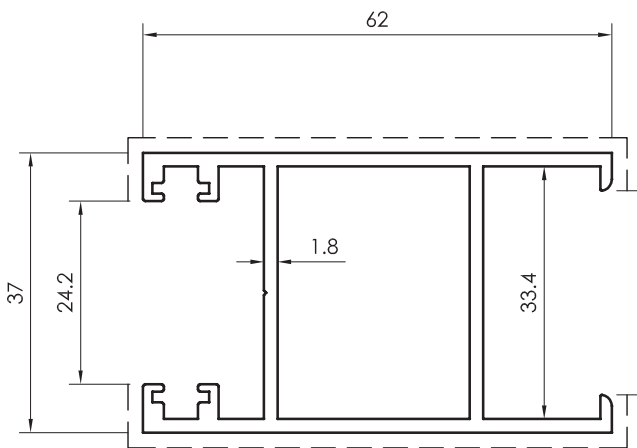
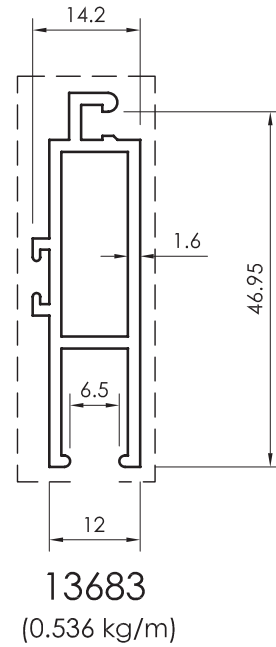
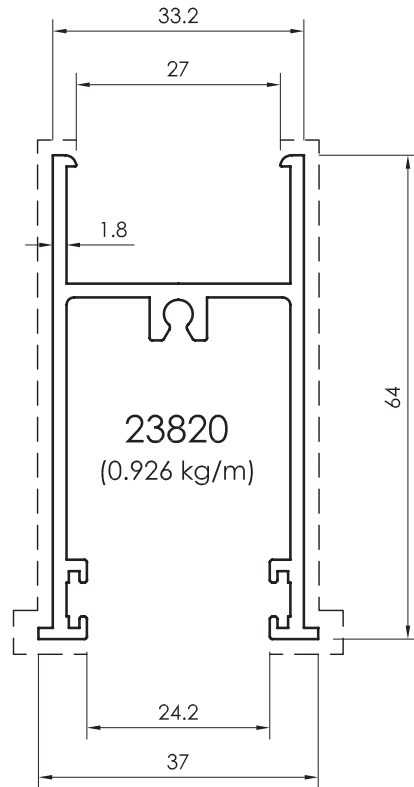
All dimensions in mm
Visible area_-----

Sash Profiles



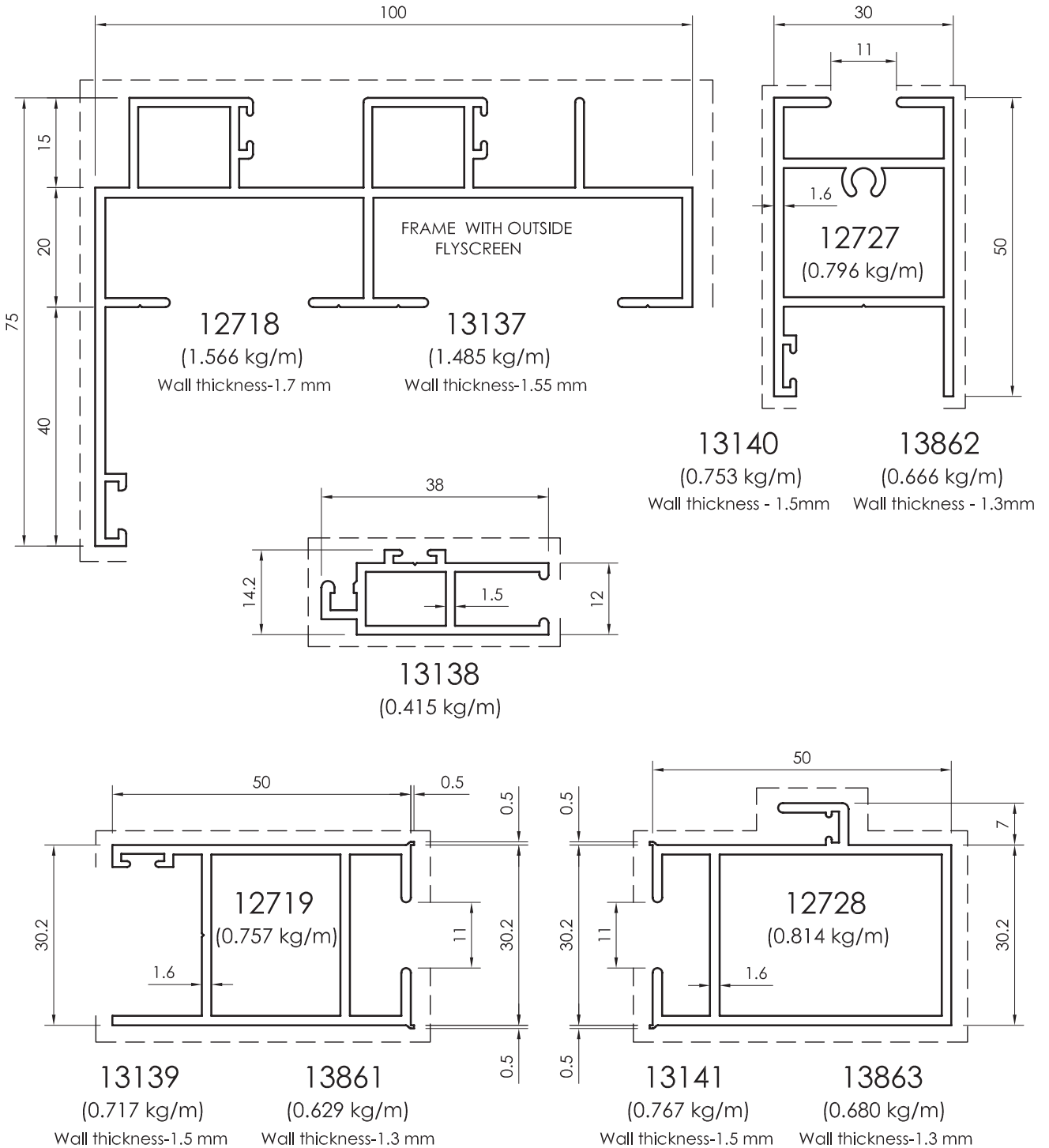
All dimensions in mm
----- Visible area

Sash Profiles



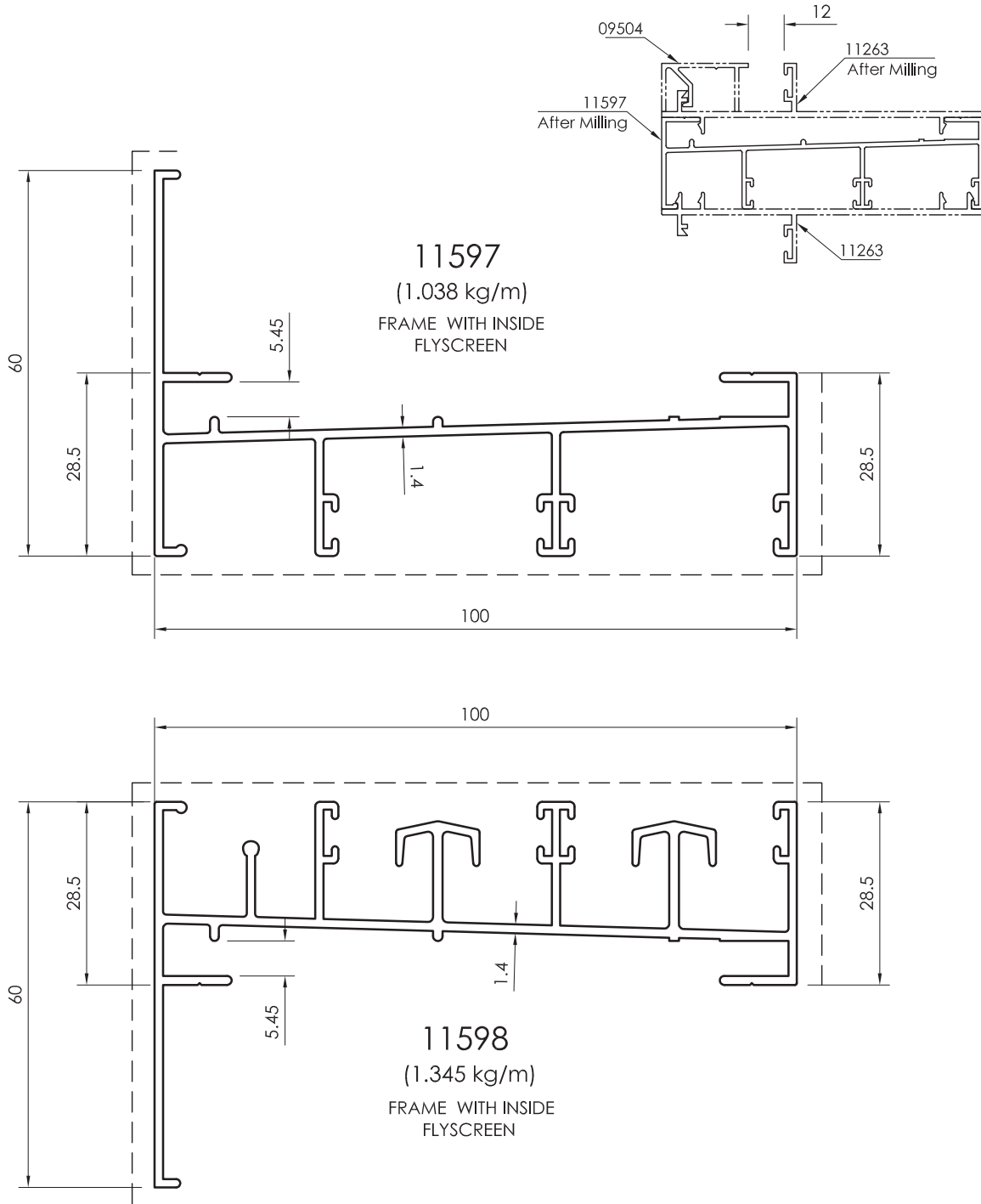
All dimensions in mm
Visible area_-----

Frame / Sash Profiles



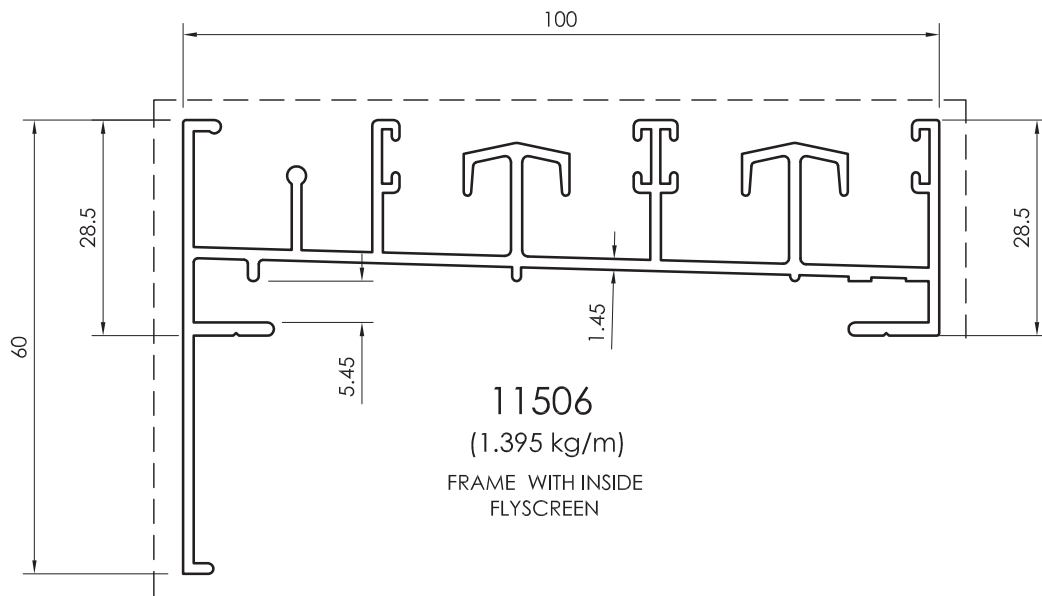
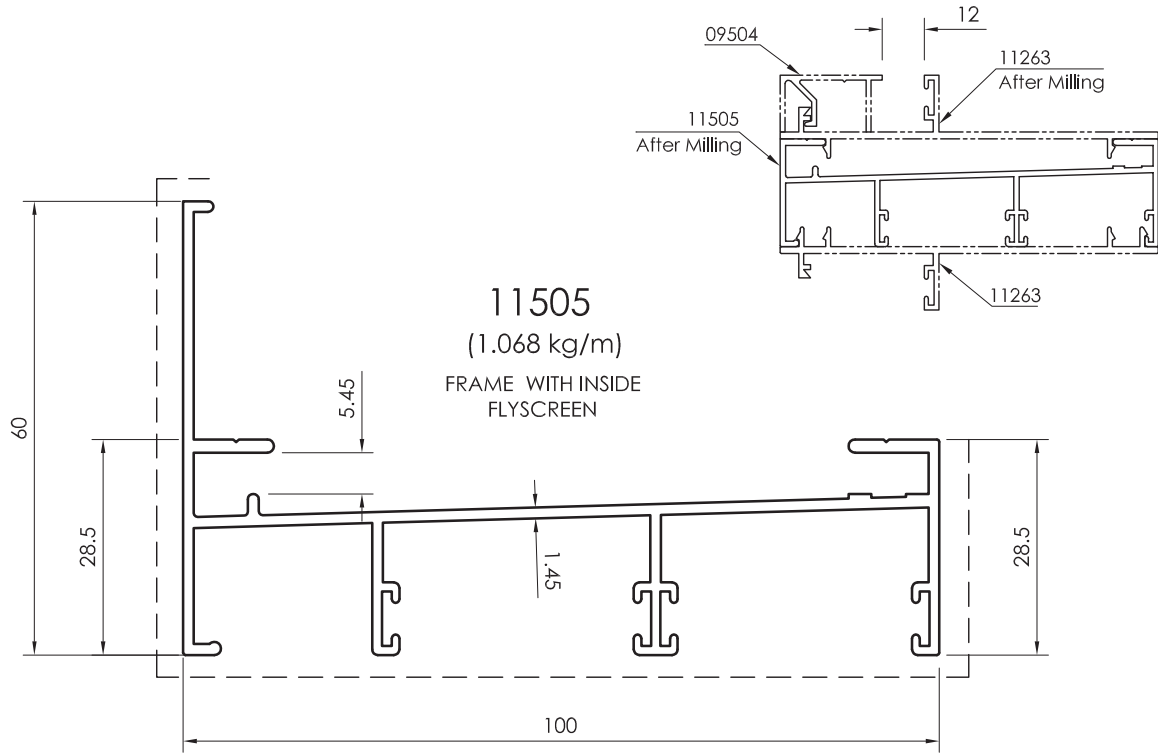
All dimensions in mm
----- Visible area

Frame Profiles



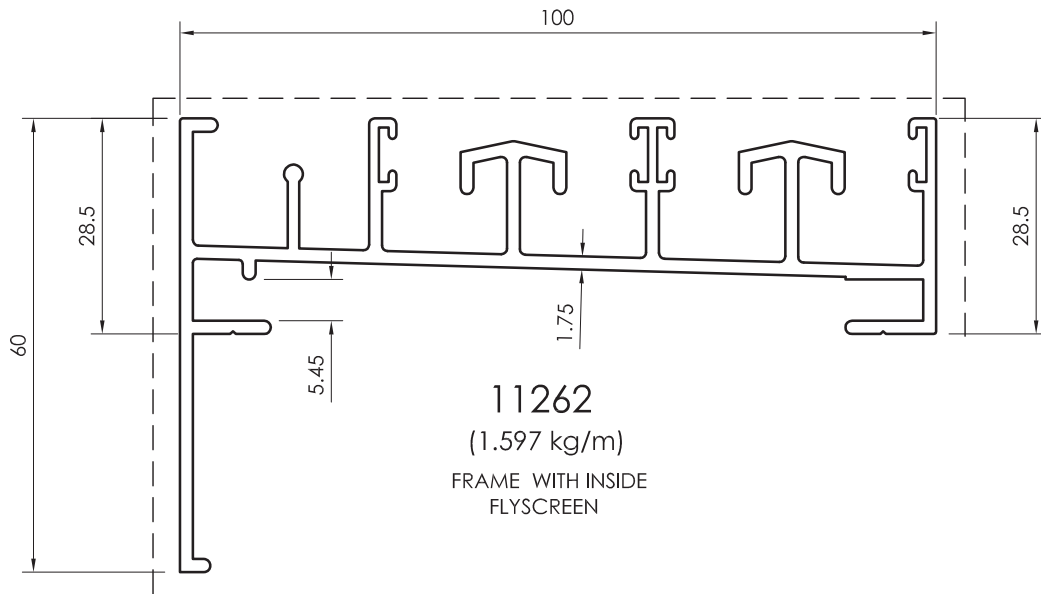
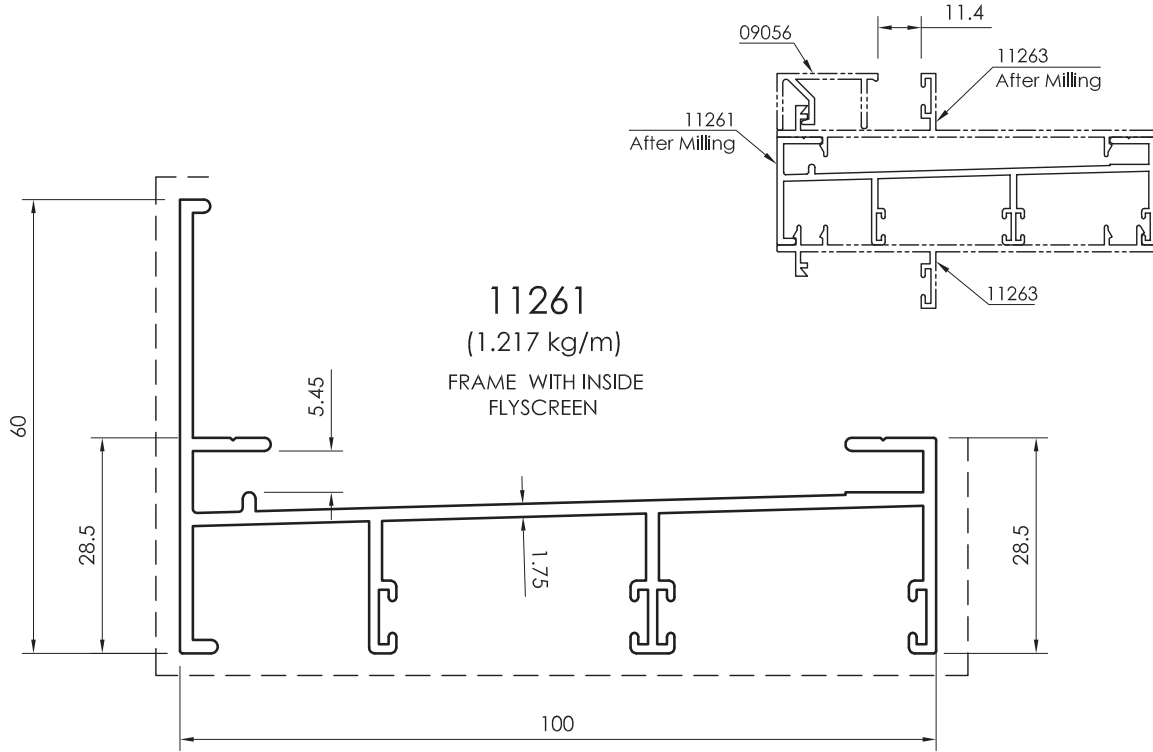
All dimensions in mm
Visible area_____

Frame Profiles



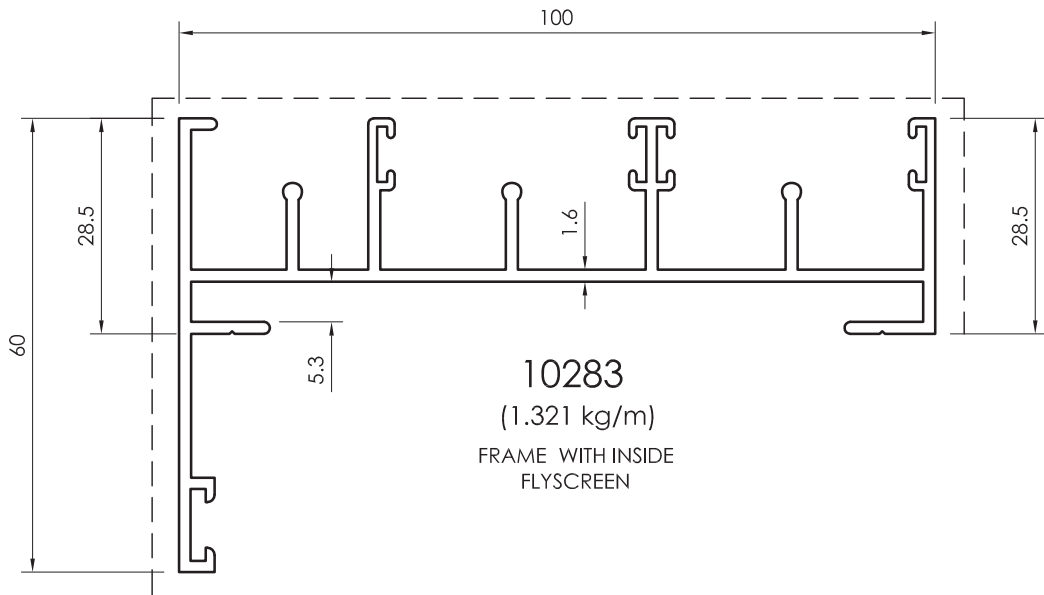
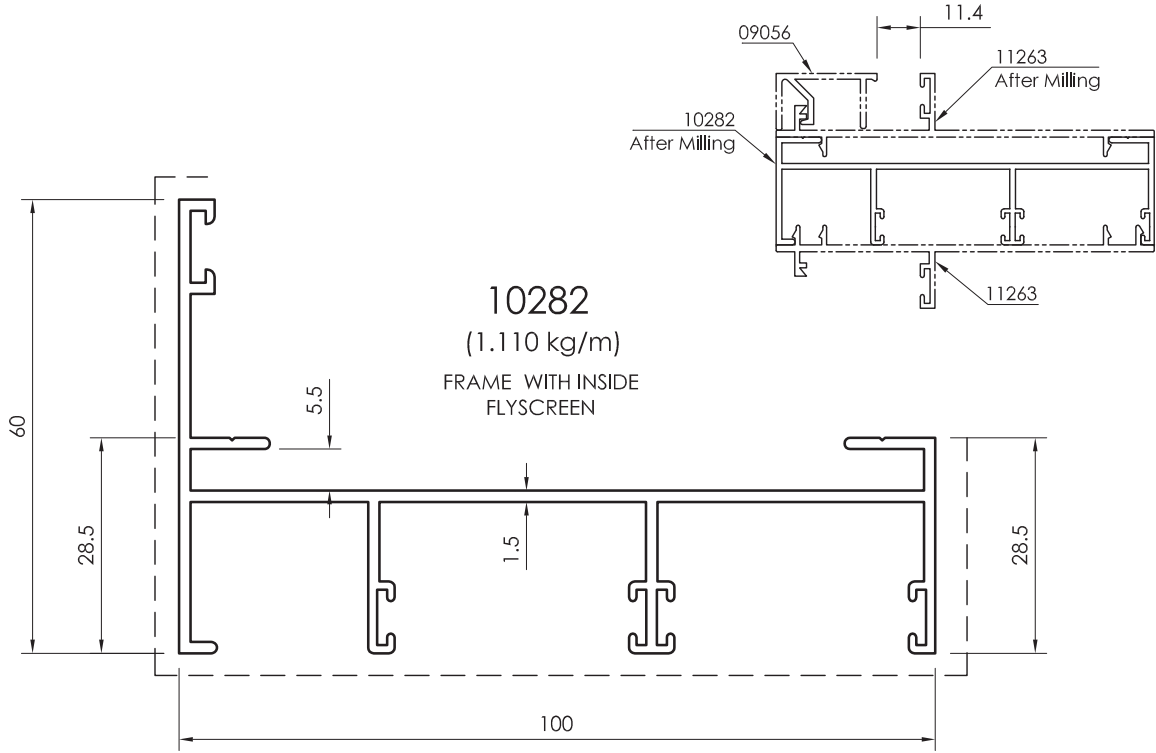
All dimensions in mm
-----Visible area

Frame Profiles



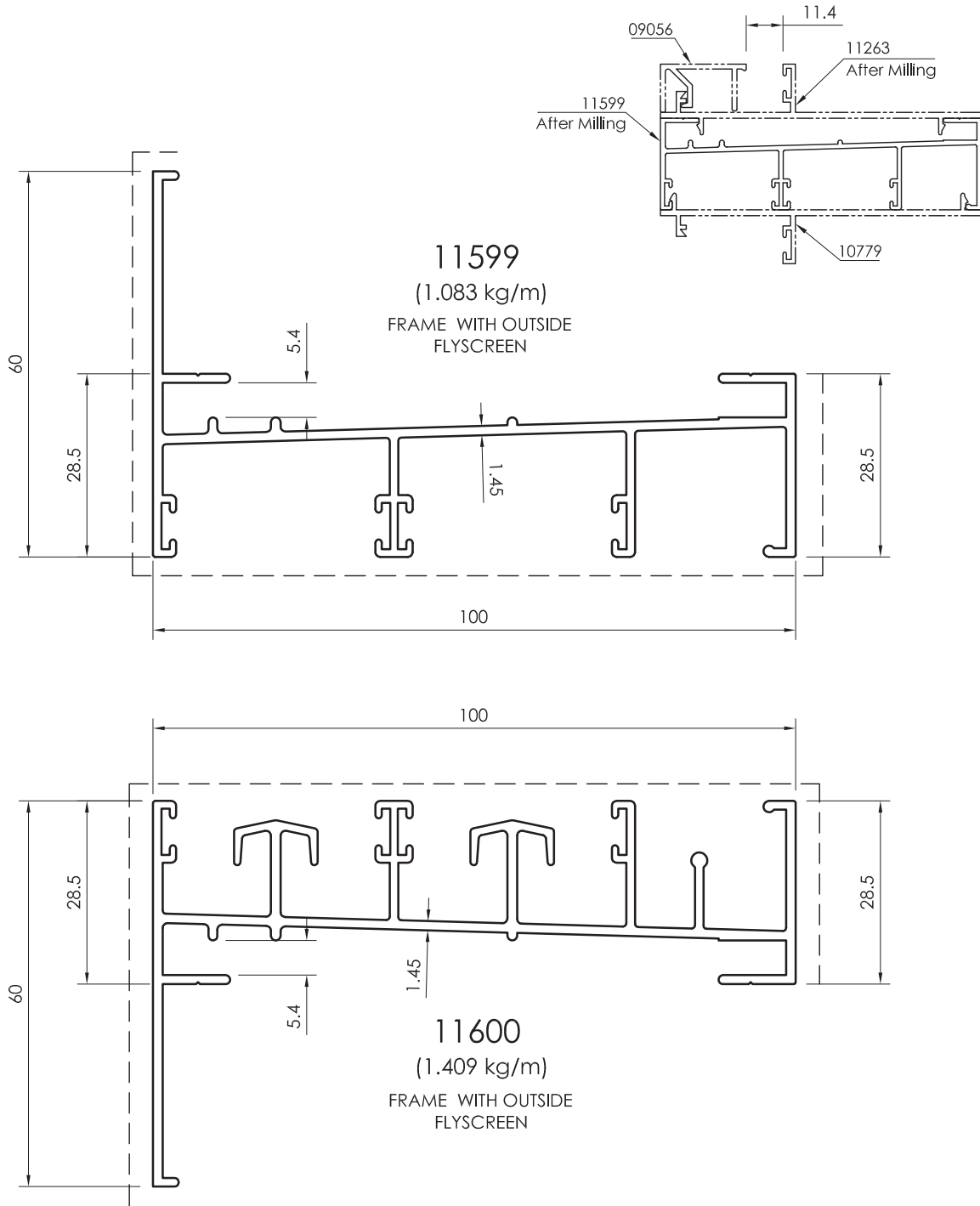
All dimensions in mm
Visible area_____

Frame Profiles



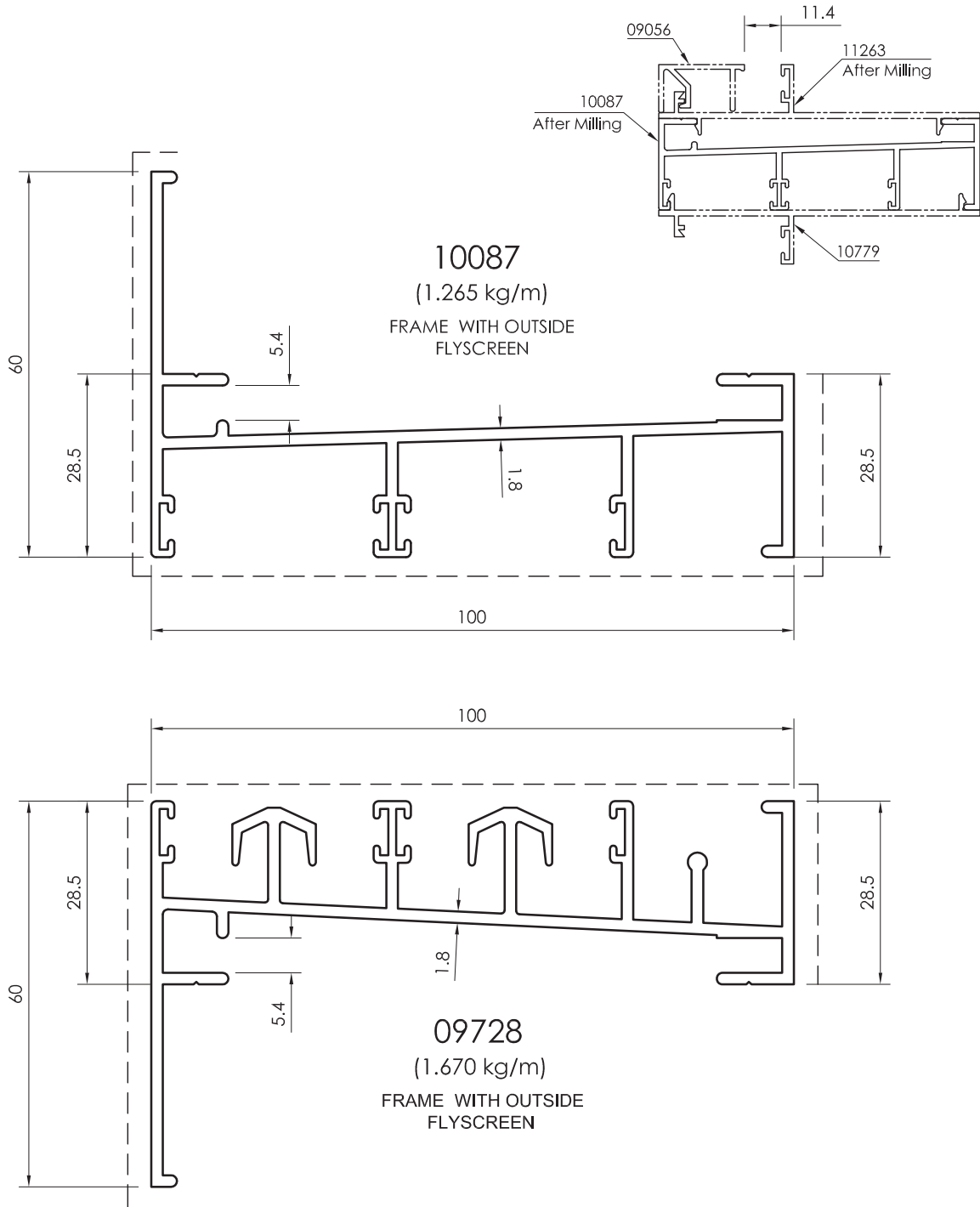
All dimensions in mm
-----Visible area

Frame Profiles



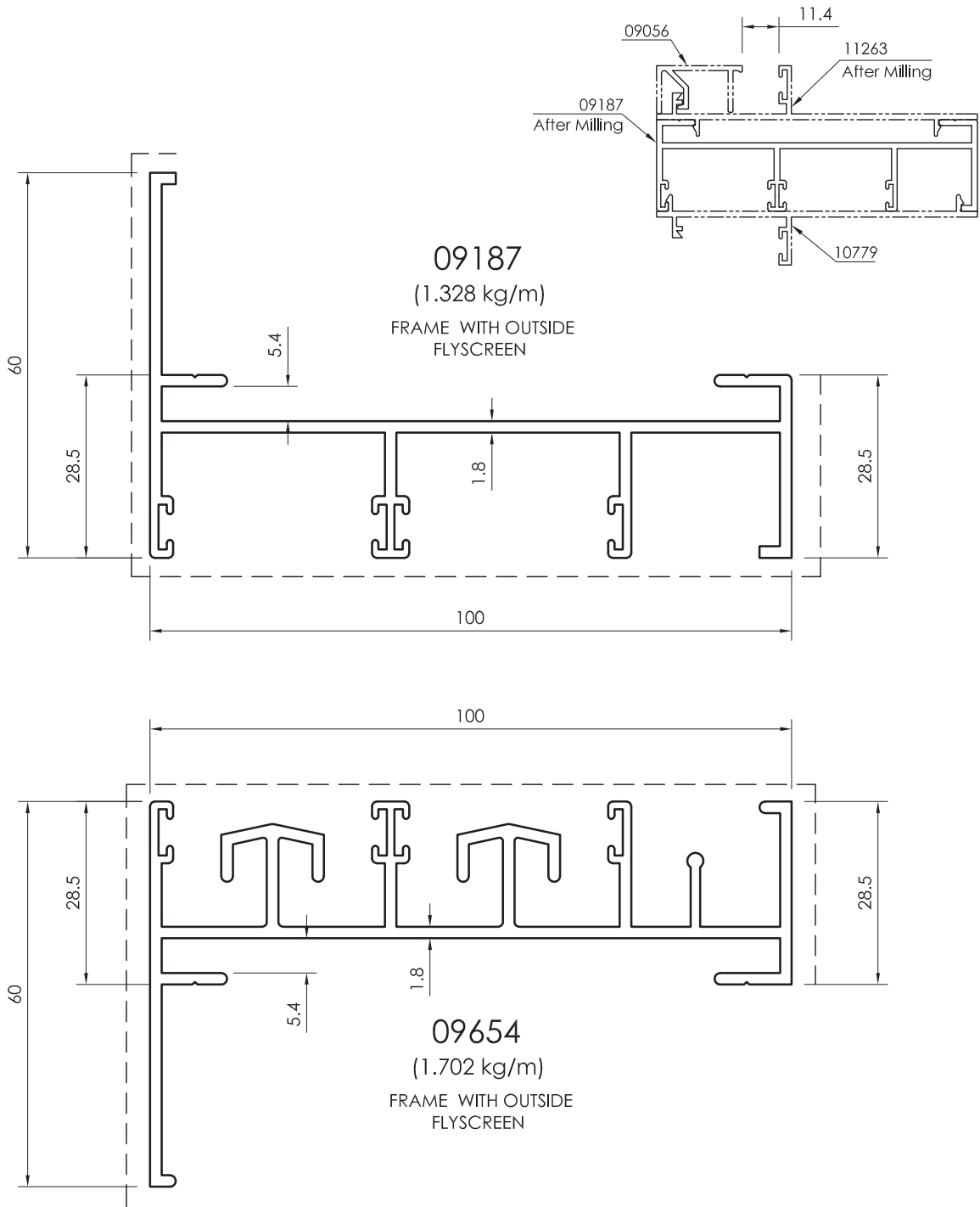
All dimensions in mm
Visible area_____

Frame Profiles



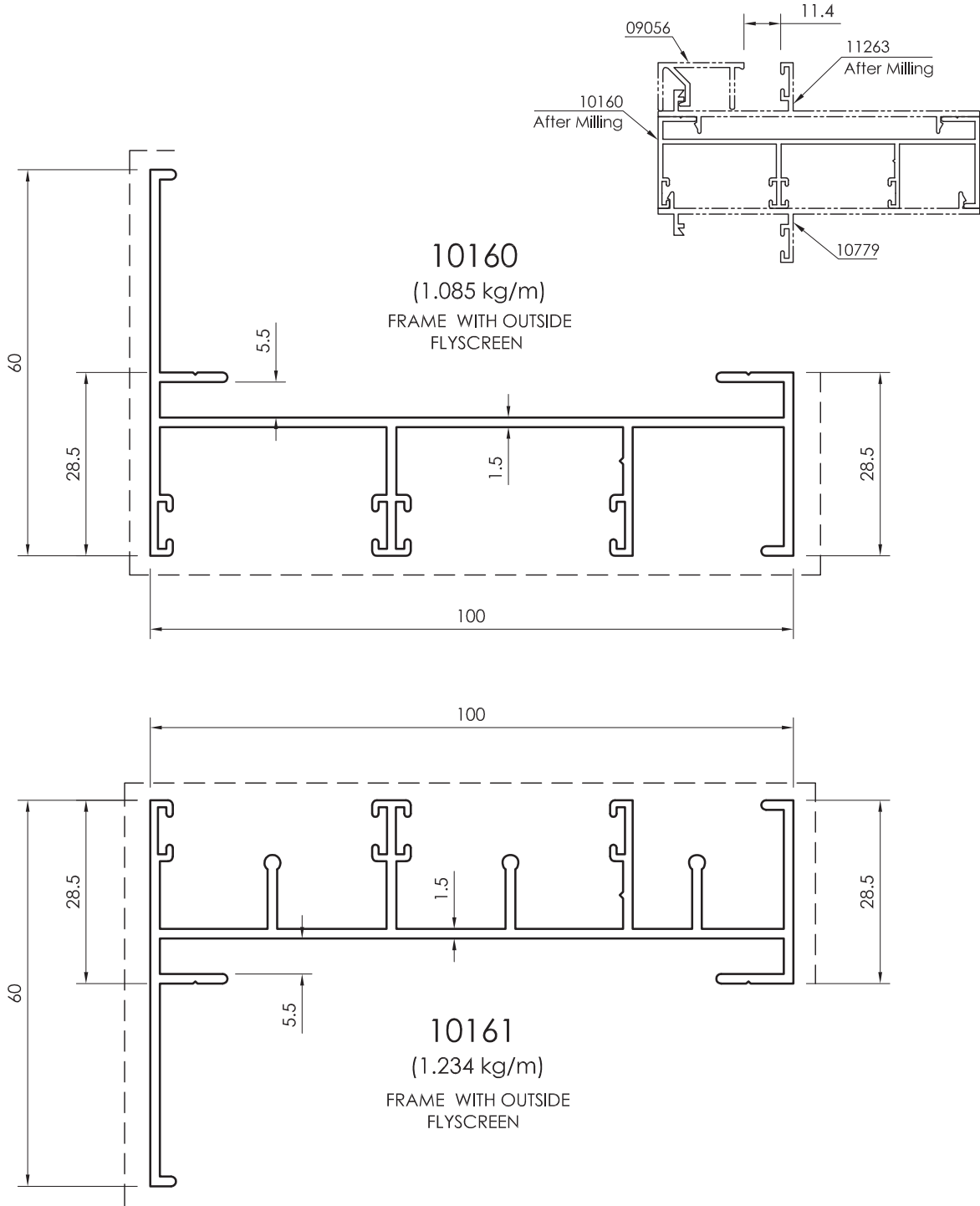
All dimensions in mm
----- Visible area

Frame Profiles



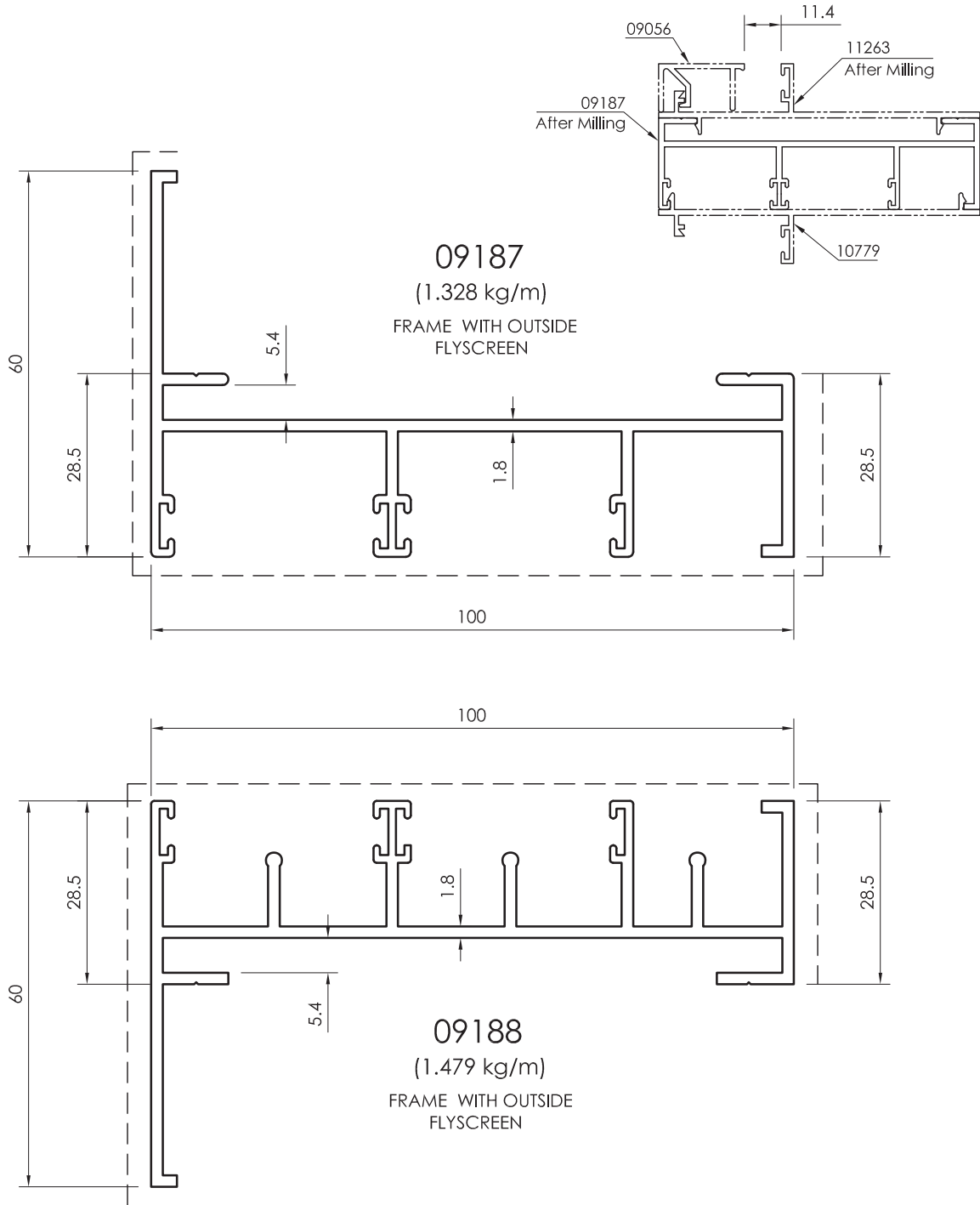
All dimensions in mm
Visible area_____

Frame Profiles



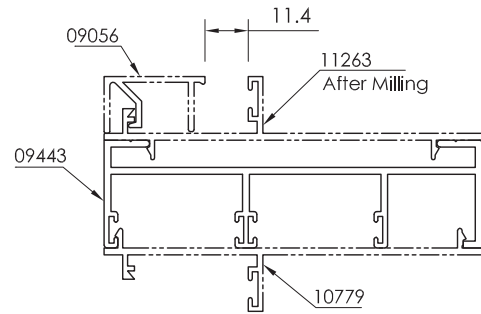
All dimensions in mm
 - - - - - Visible area

Frame Profiles



All dimensions in mm
Visible area_-----

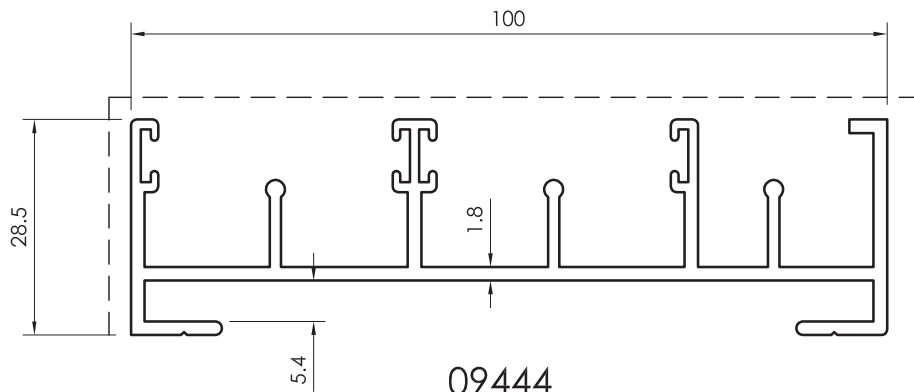
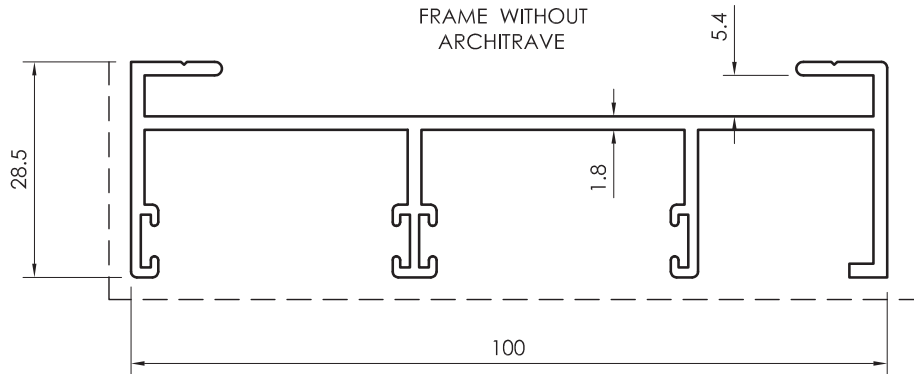
Frame Profiles



09443

(1.164 kg/m)

FRAME WITHOUT
ARCHITRAVE



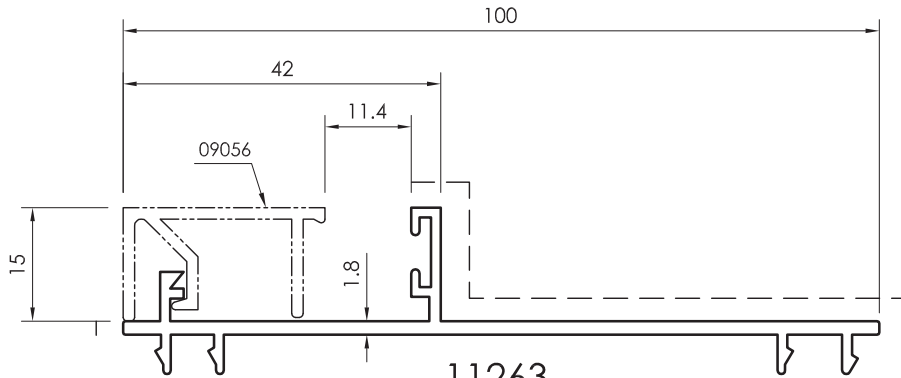
09444

(1.315 kg/m)

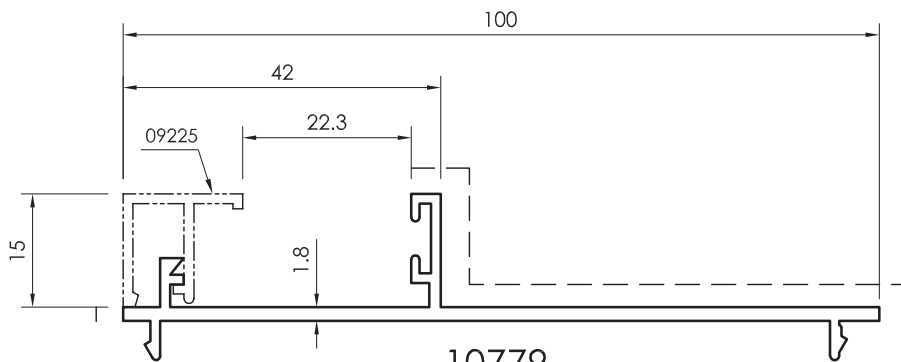
FRAME WITHOUT
ARCHITRAVE

All dimensions in mm
-----Visible area

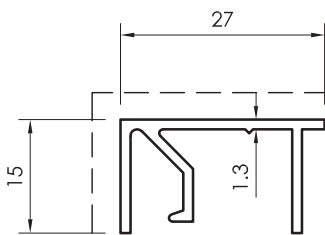
Fixed Adaptor Profiles



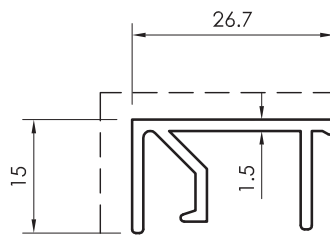
11263
(0.681 kg/m)
FIX ADAPTOR



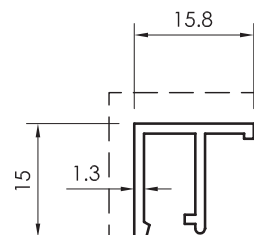
10779
(0.646 kg/m)
FIX ADAPTOR



09504
(0.249 kg/m)
GLAZING BEAD



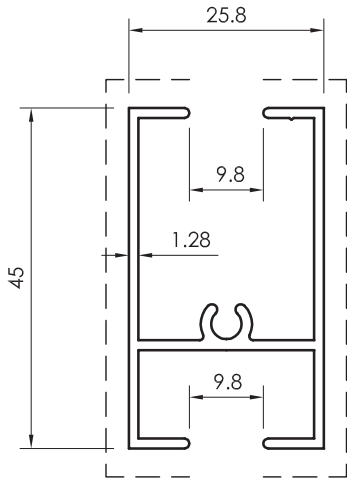
09056
(0.290 kg/m)
GLAZING BEAD



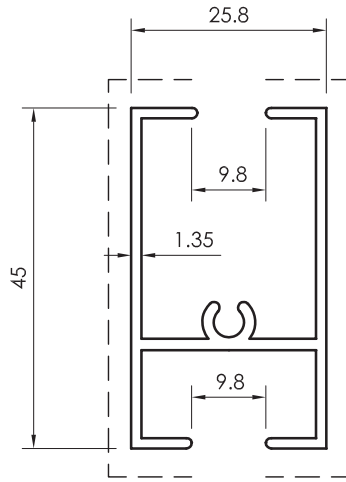
09225
(0.165 kg/m)
GLAZING BEAD

All dimensions in mm
Visible area_____

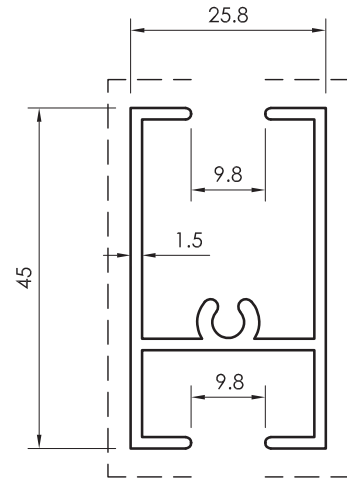
Sash Profile
For Single Glass



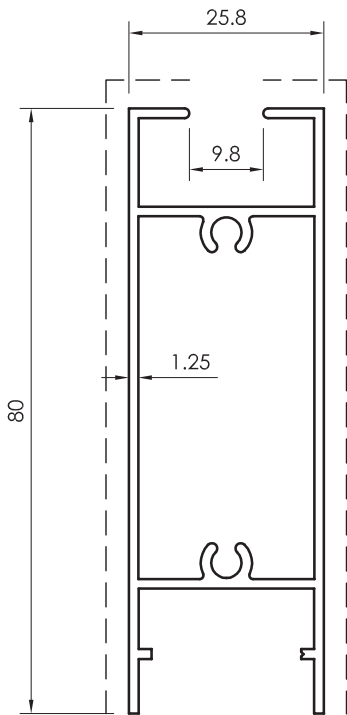
11507
(0.526 kg/m)



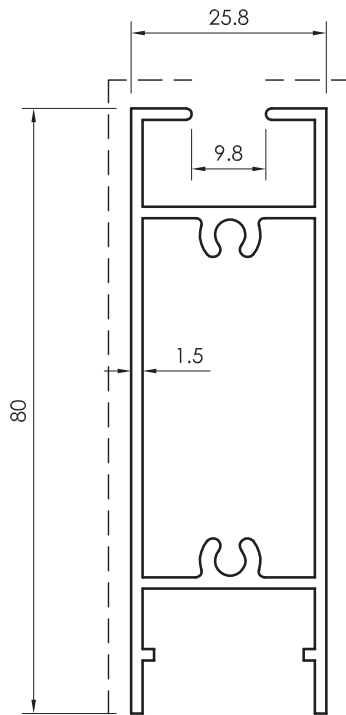
10162
(0.565 kg/m)



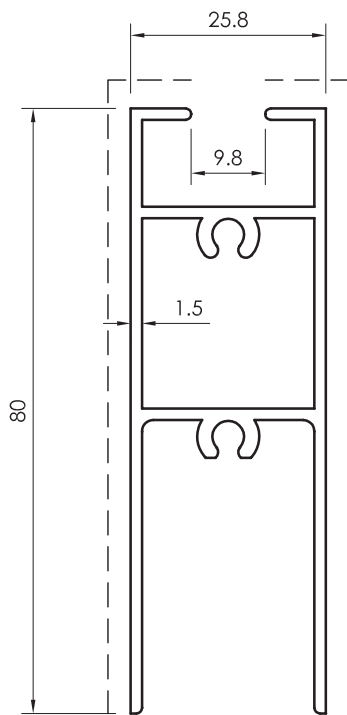
09041
(0.622 kg/m)



13979
(0.845 kg/m)



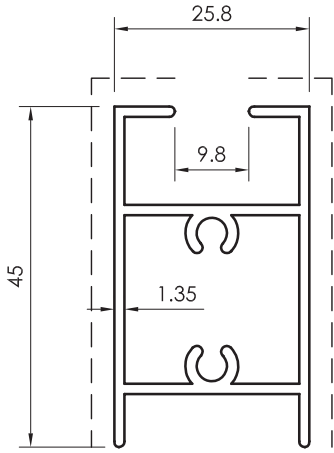
12390
(1.038 kg/m)



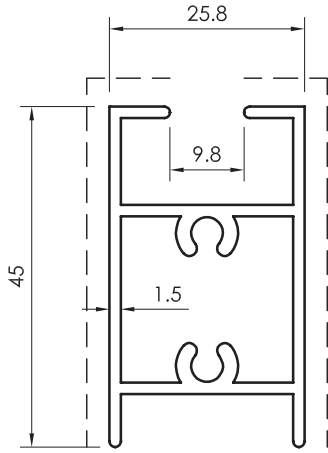
12767
(1.005 kg/m)

All dimensions in mm
----- Visible area

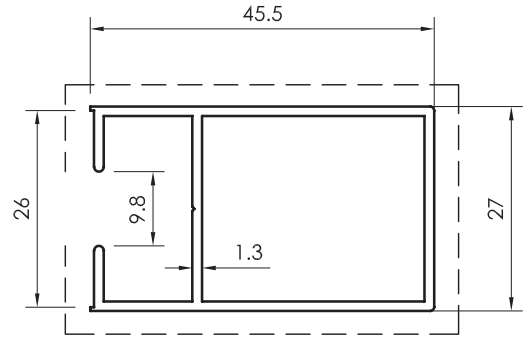
Sash Profile
For Single Glass



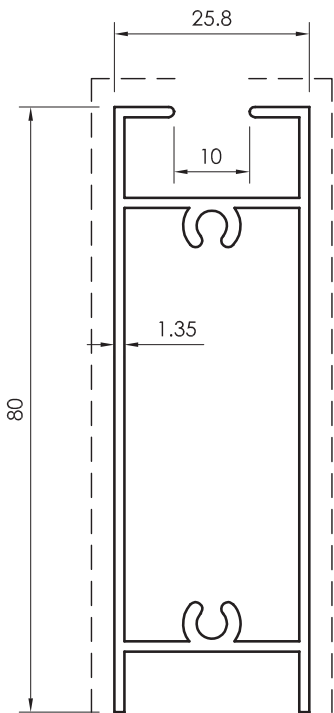
12723
(0.634 kg/m)



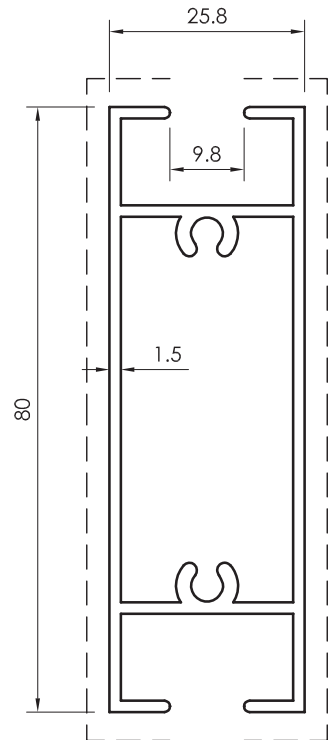
12126
(0.740 kg/m)



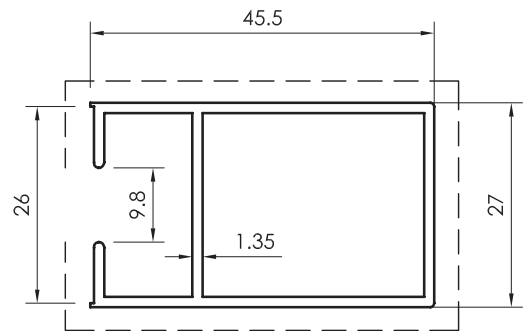
13977
(0.527 kg/m)



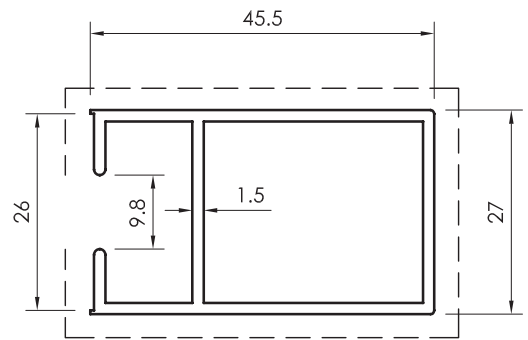
12833
(0.909 kg/m)



12031
(1.054 kg/m)



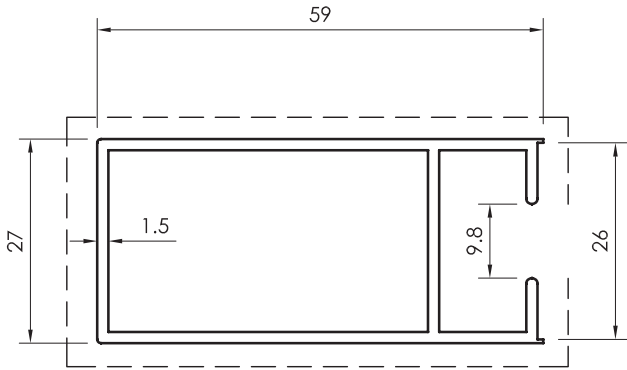
12721
(0.558 kg/m)



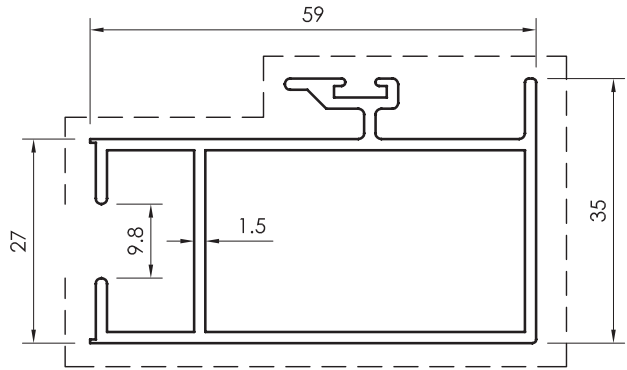
12032
(0.616 kg/m)

All dimensions in mm
Visible area_-----

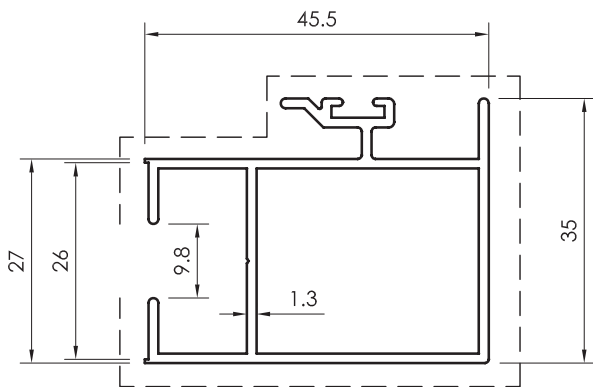
Sash Profile
For Single Glass



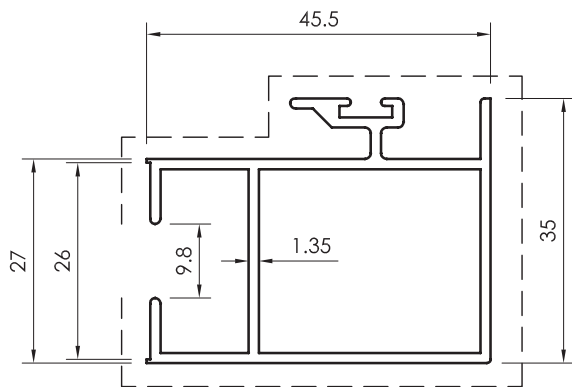
12765
(0.724 kg/m)



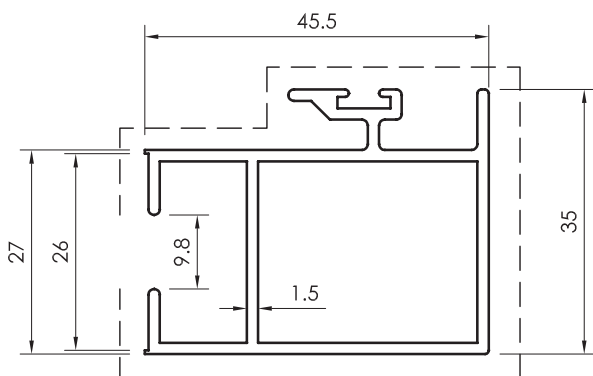
12766
(0.867 kg/m)



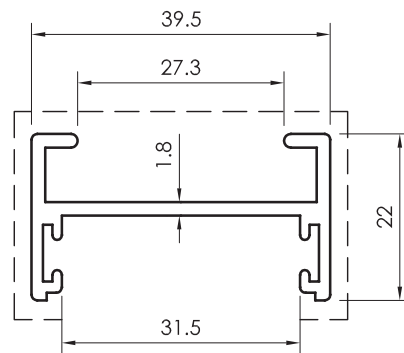
13978
(0.650 kg/m)



12722
(0.690 kg/m)



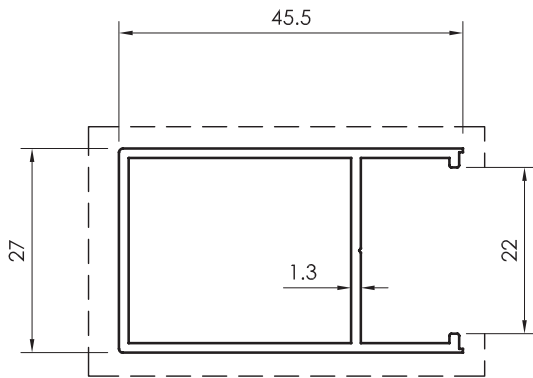
12033
(0.756 kg/m)



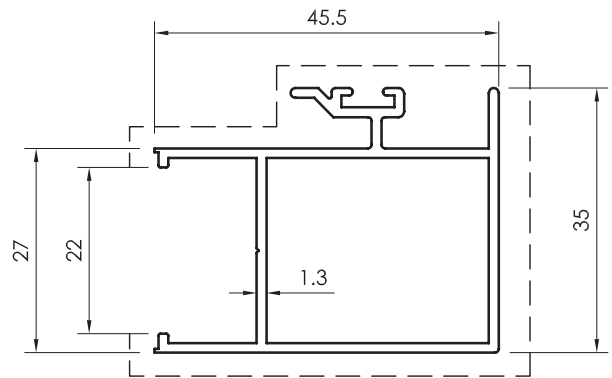
09201
(0.500 kg/m)
4 VENTS MID SECTION

All dimensions in mm
----- Visible area

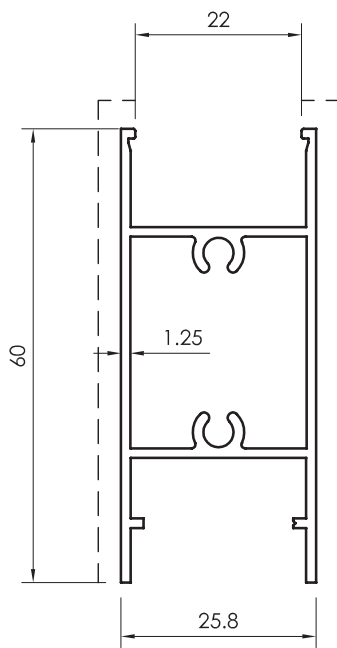
Sash Profile
For Double Glass



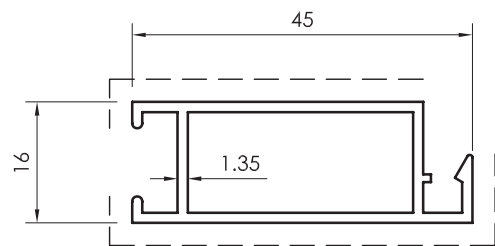
14499
(0.485 kg/m)



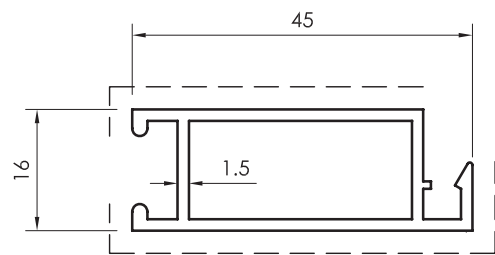
14500
(0.609 kg/m)



14501
(0.666 kg/m)



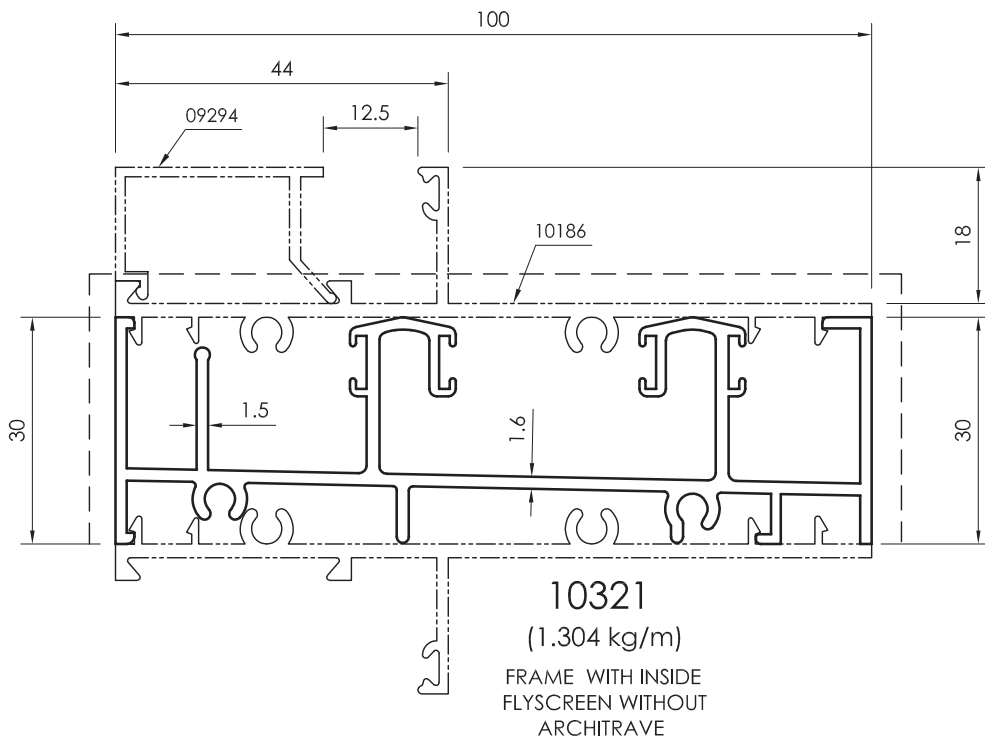
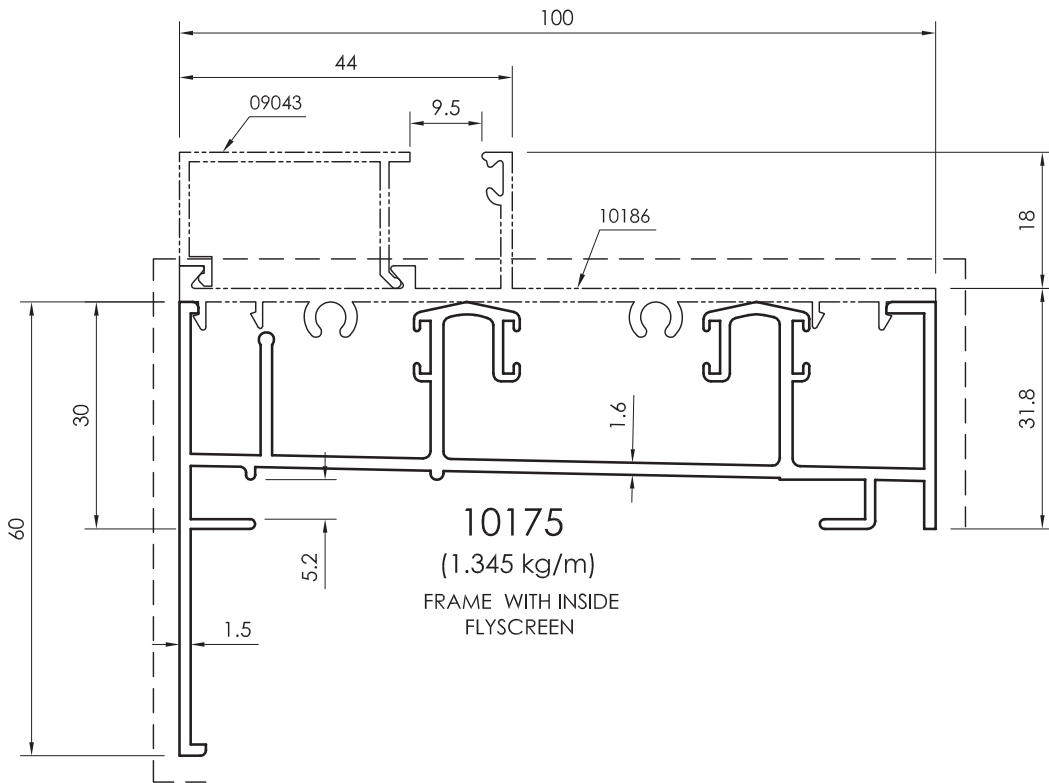
12724
(0.447 kg/m)



12204
(0.497 kg/m)

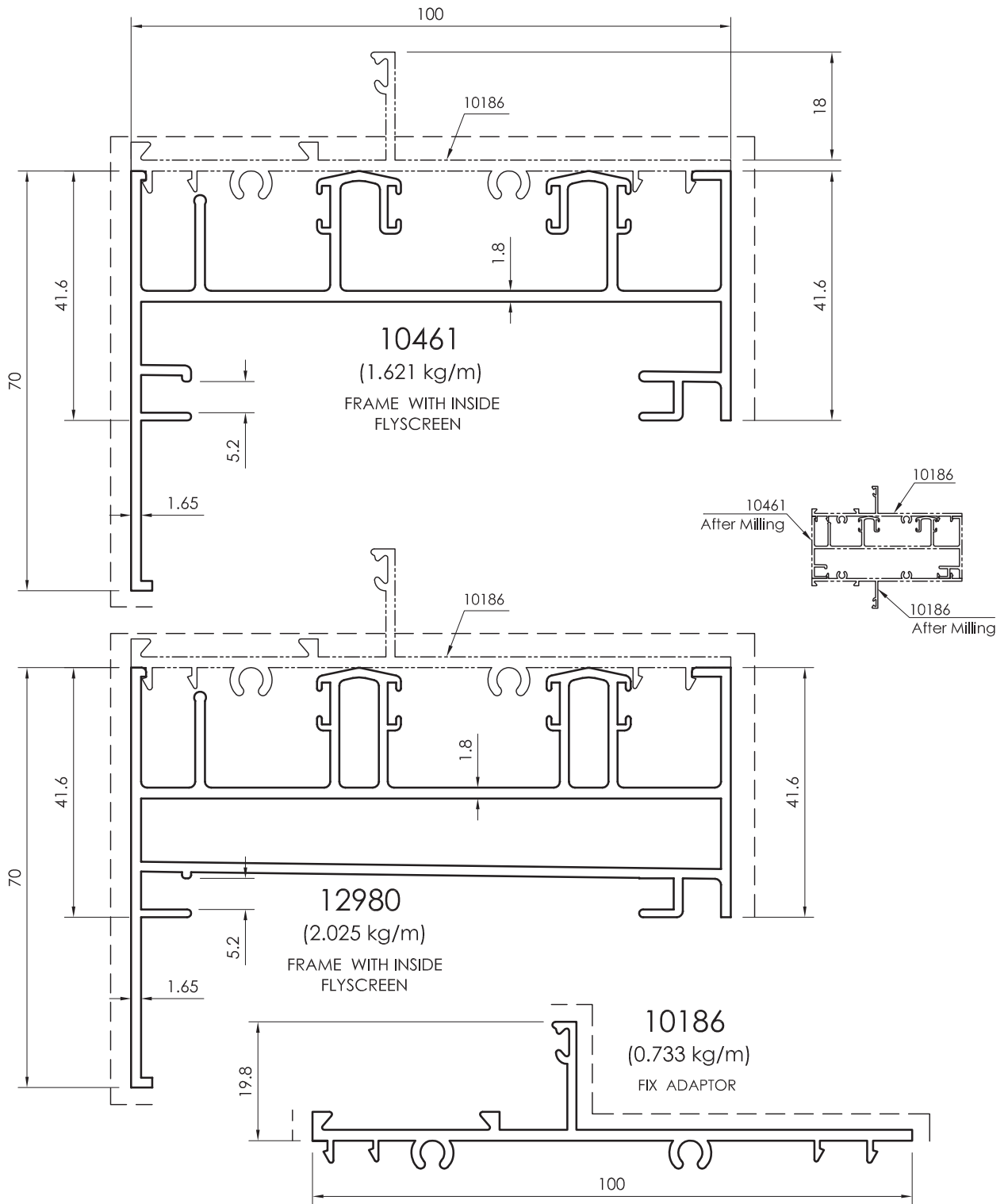
All dimensions in mm
Visible area_-----

Frame Profile



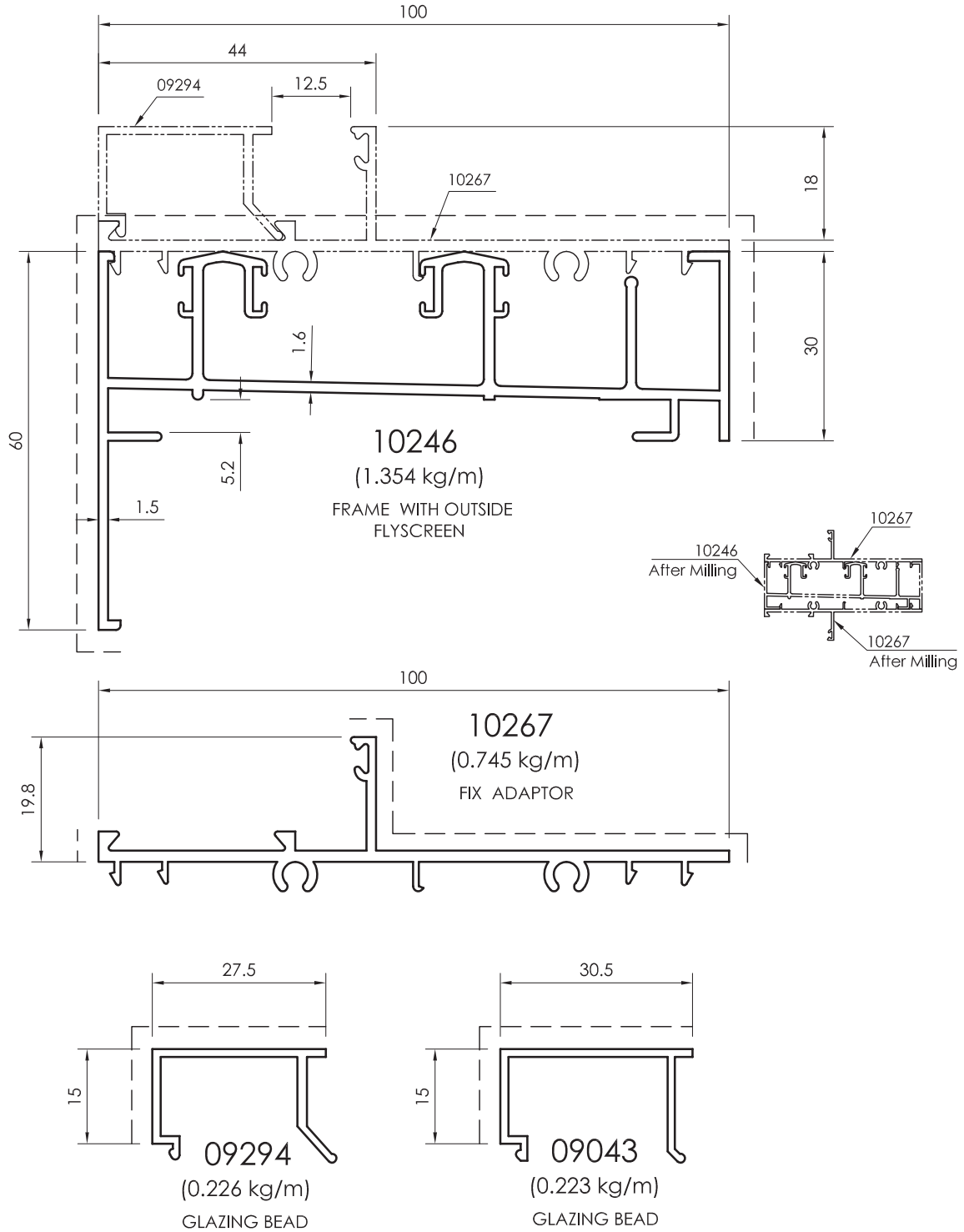
All dimensions in mm
----- Visible area

Frame / Adaptor Profiles



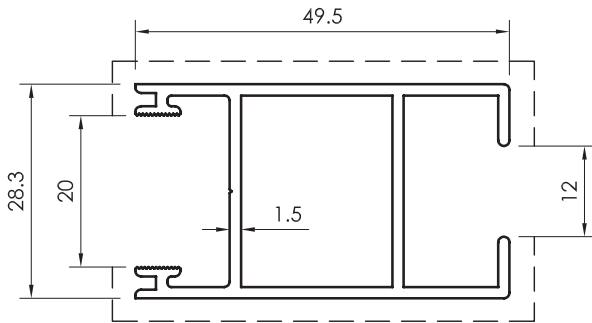
All dimensions in mm
Visible area_-----

Frame / Adaptor Profiles

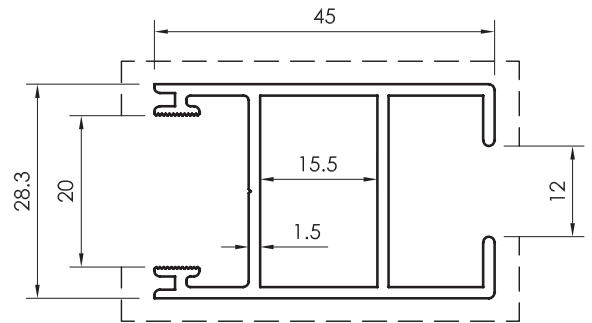


All dimensions in mm
----- Visible area

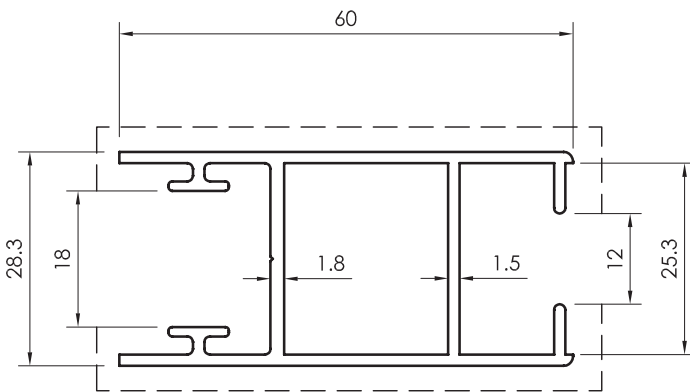
Sash Profile
For Single Glass



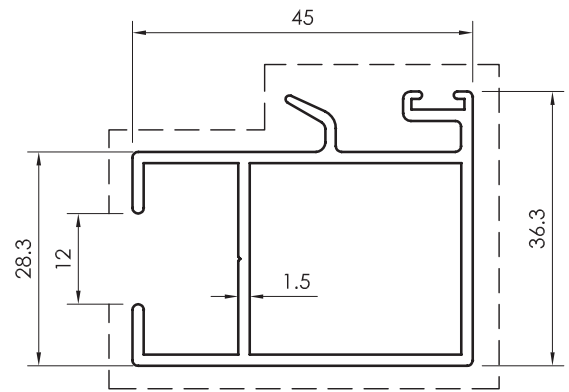
14265
(0.699 kg/m)



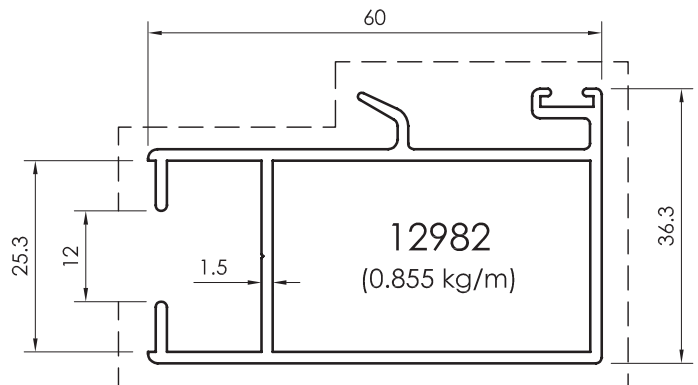
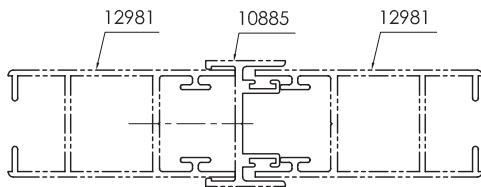
12743
(0.663 kg/m)
(Inner dimn. only 15.5 mm)



12981
(0.837 kg/m)



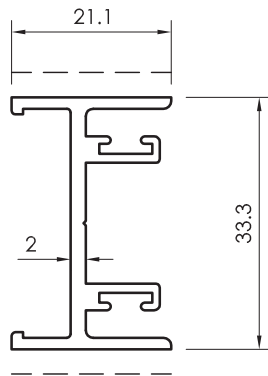
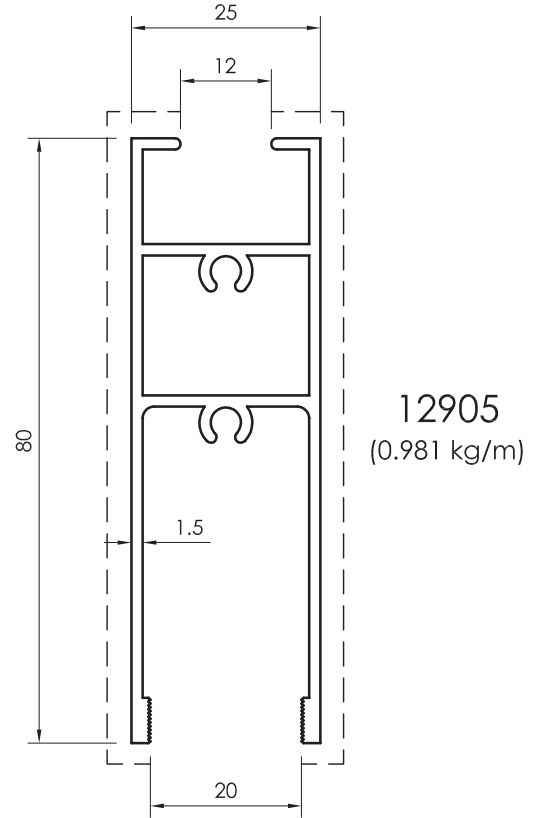
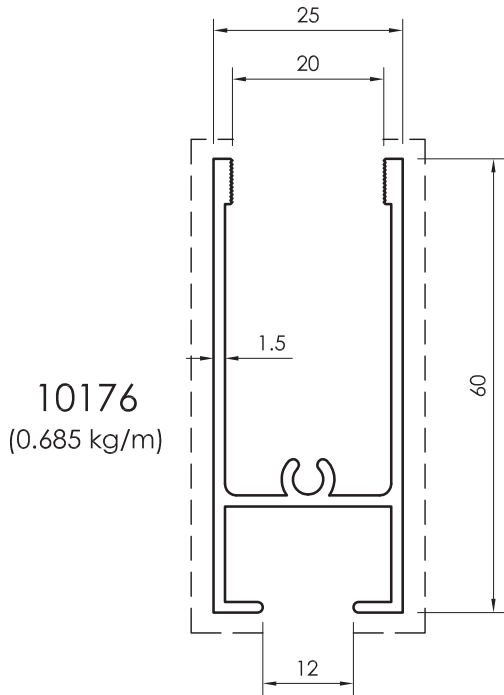
12744
(0.734 kg/m)



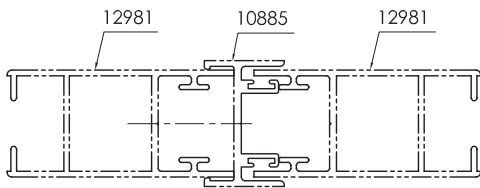
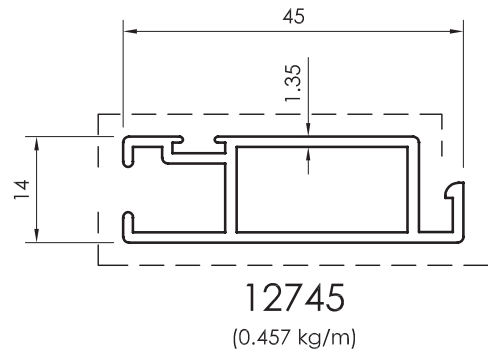
12982
(0.855 kg/m)

All dimensions in mm
Visible area_-----

Sash Profiles
For Single Glass

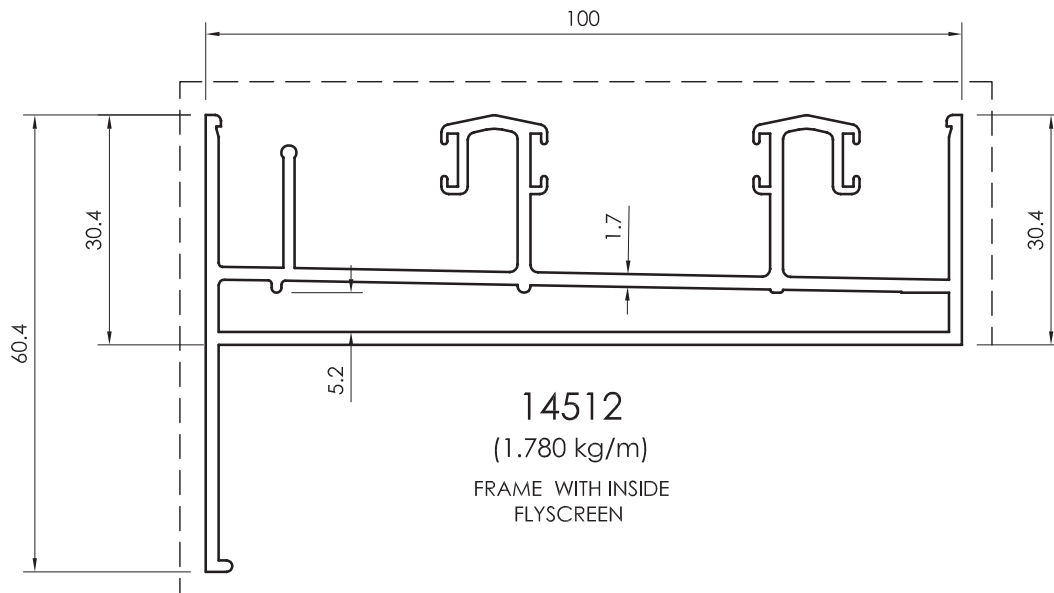
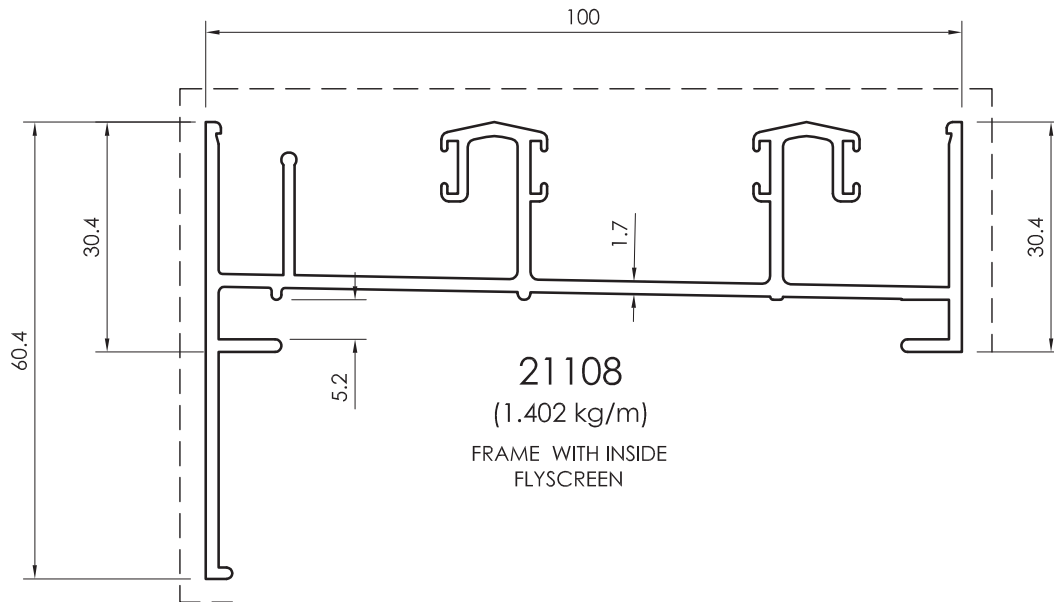


4 VENTS MID SECTION



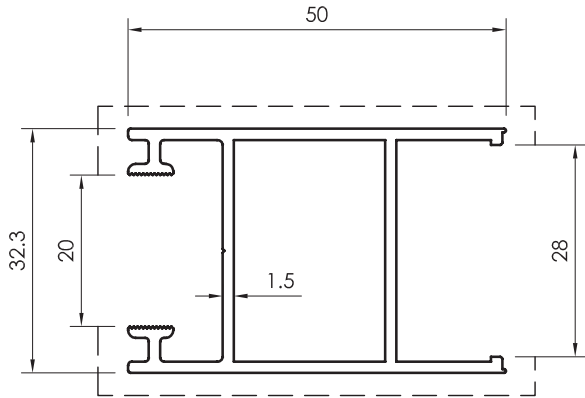
All dimensions in mm
-----Visible area

Frame Profiles

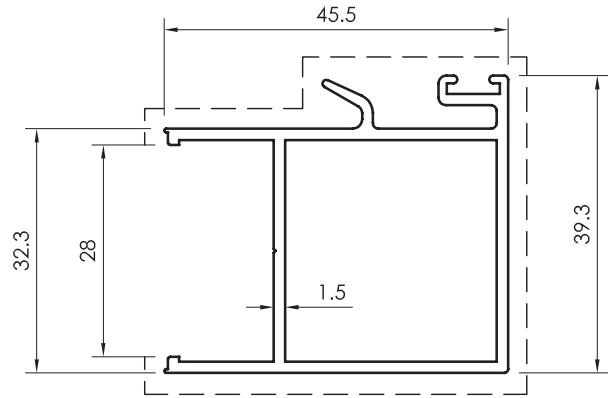


All dimensions in mm
Visible area_-----

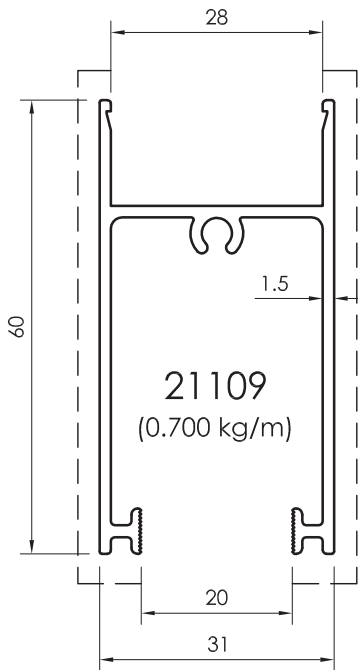
Sash Profiles
For Double Glass



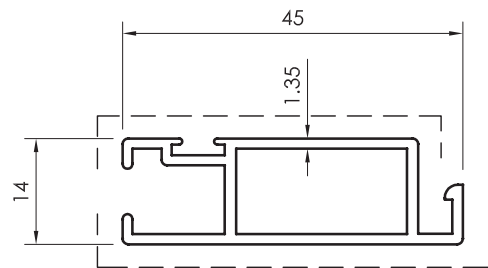
14513
(0.713 kg/m)



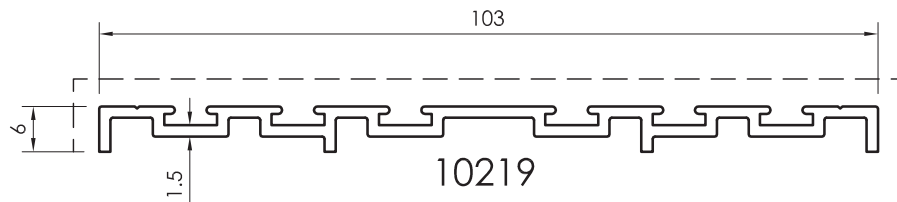
14514
(0.713 kg/m)



21109
(0.700 kg/m)



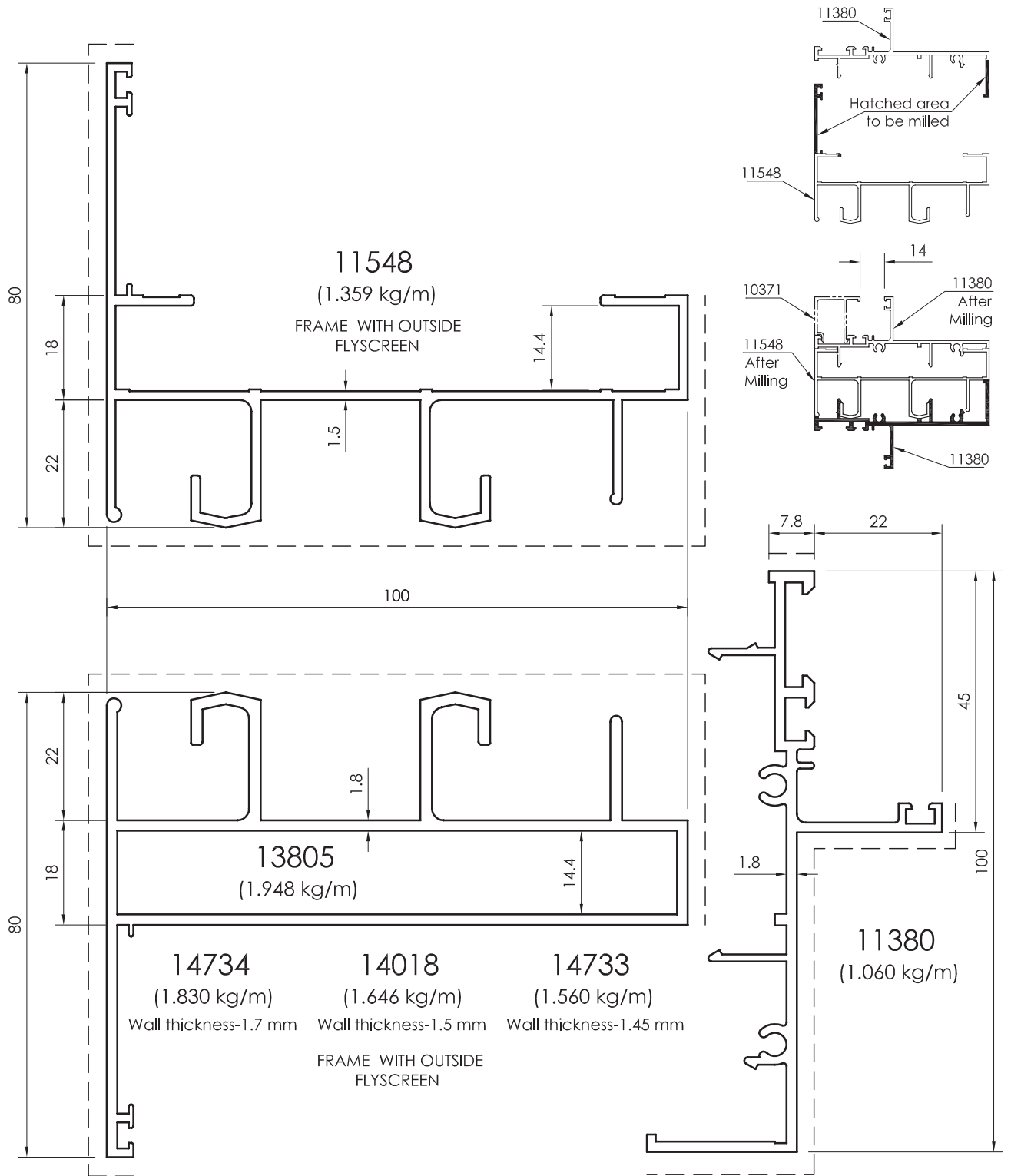
12745
(0.457 kg/m)



10219
(0.633 kg/m)
DUST PROOF PROFILE

All dimensions in mm
----- Visible area

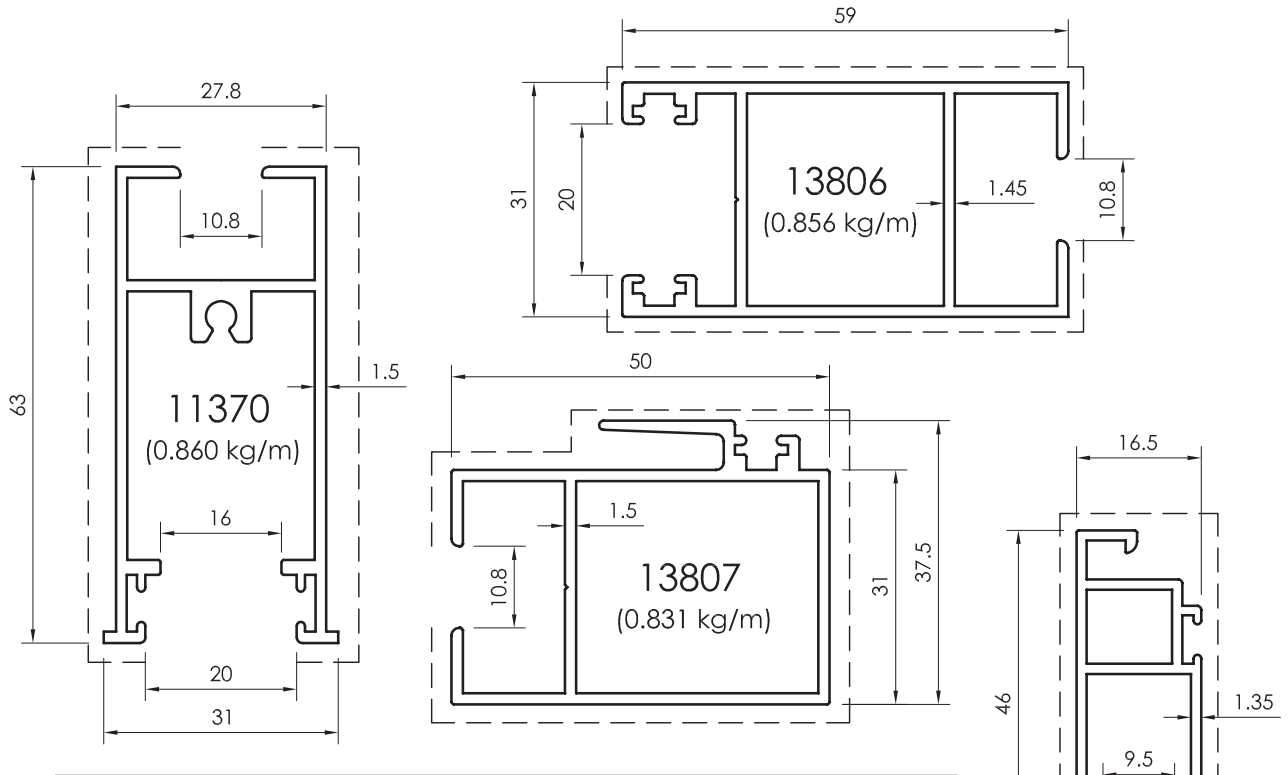
Frame / Adaptor Profiles



All dimensions in mm
Visible area_____

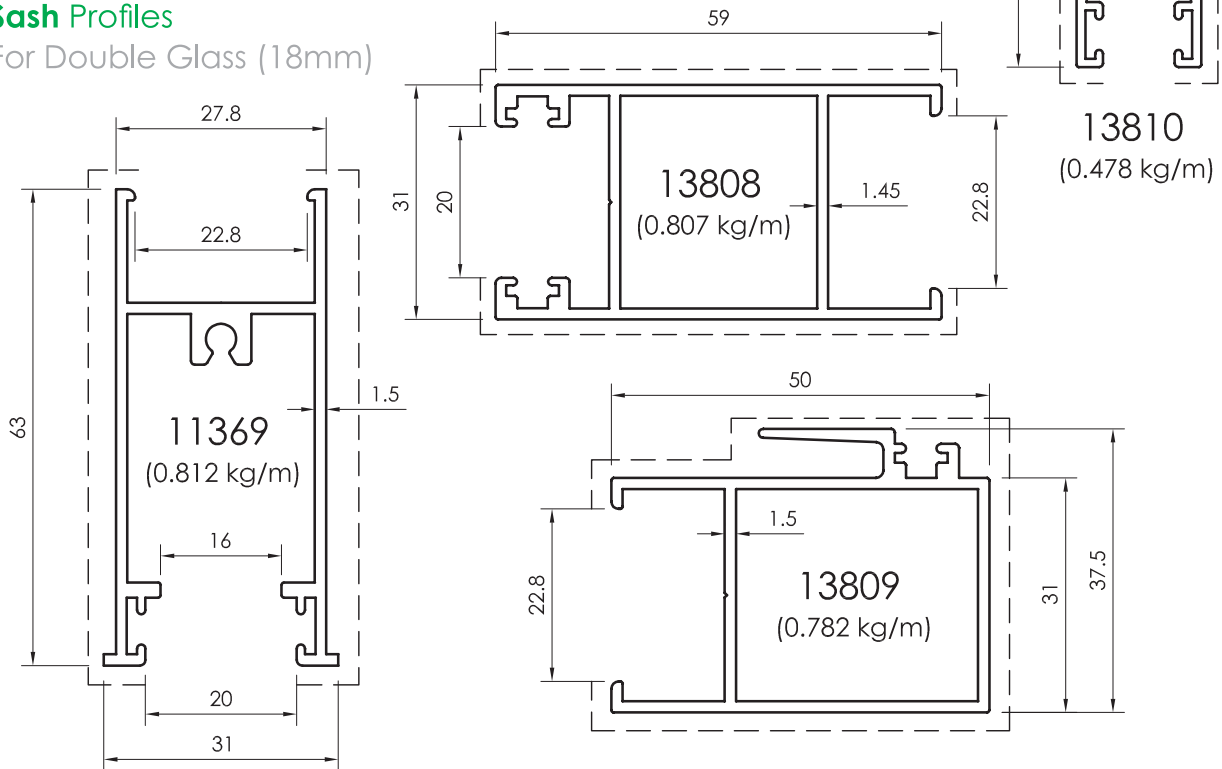
Sash Profiles

For Single Glass (6mm)



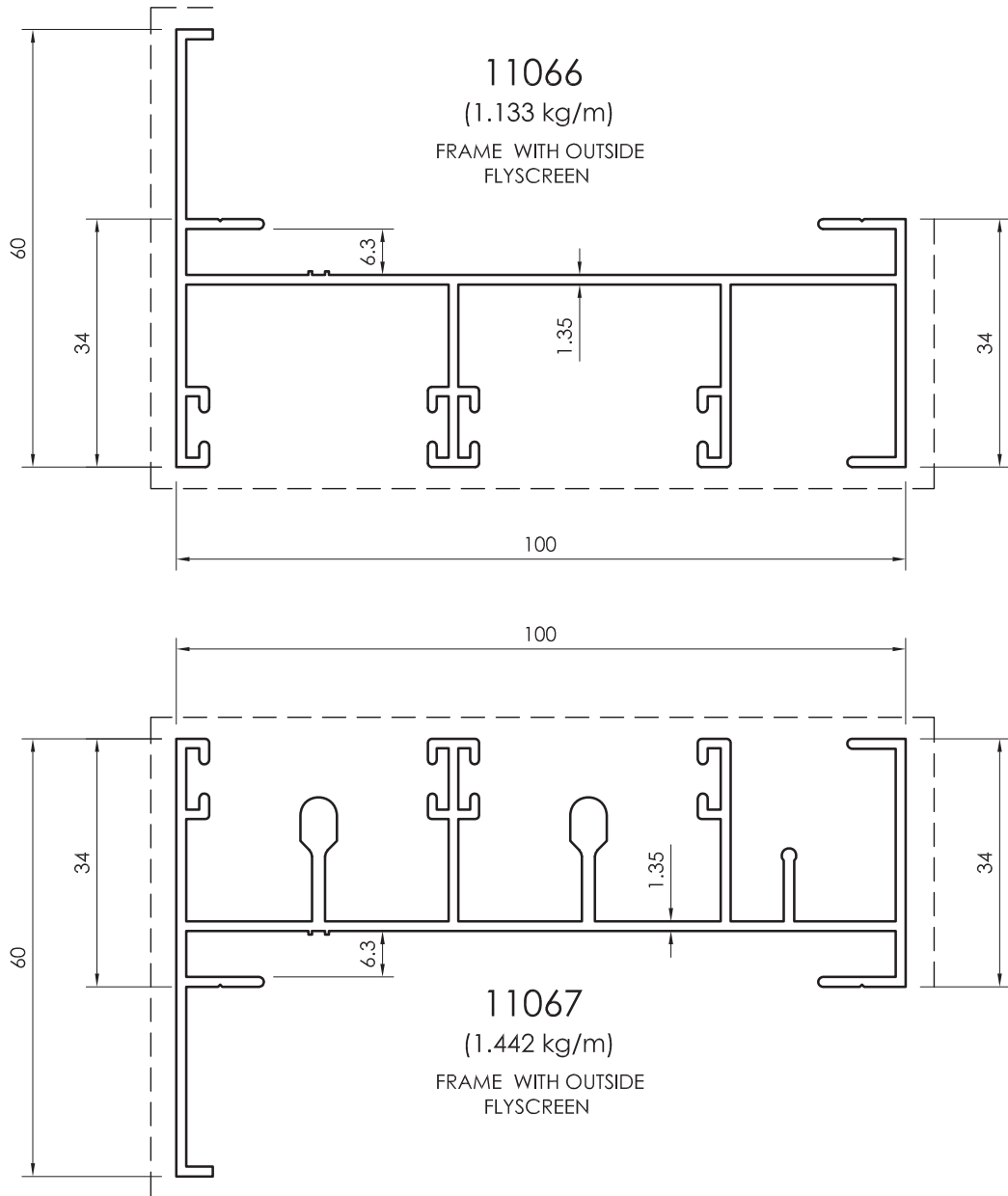
Sash Profiles

For Double Glass (18mm)



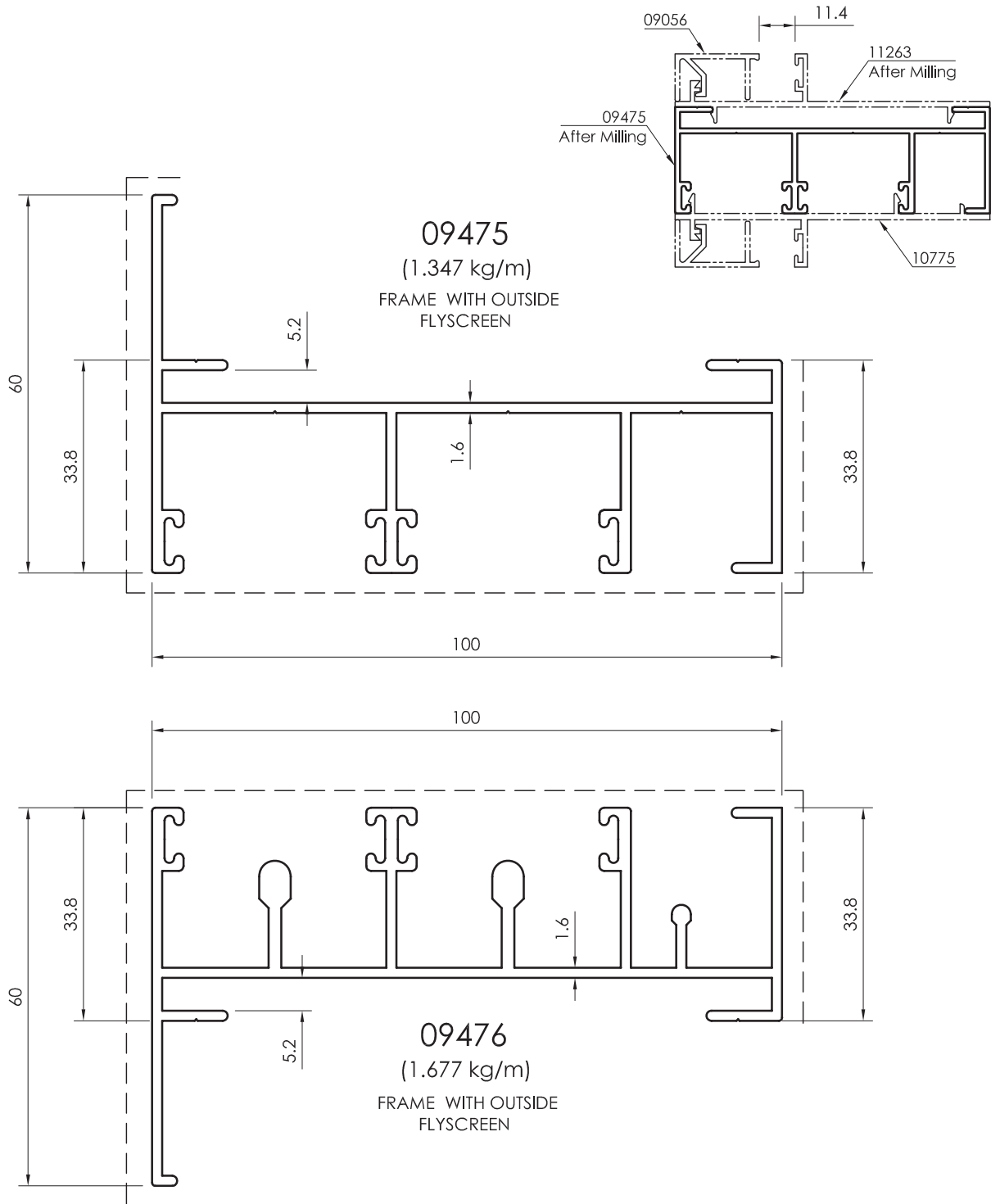
All dimensions in mm
 - - - - - Visible area

Frame Profiles



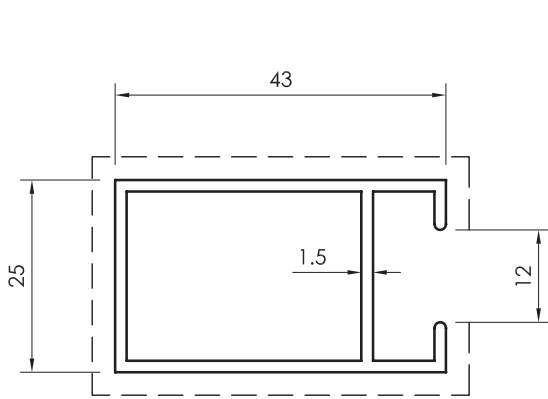
All dimensions in mm
Visible area_-----

Frame Profiles

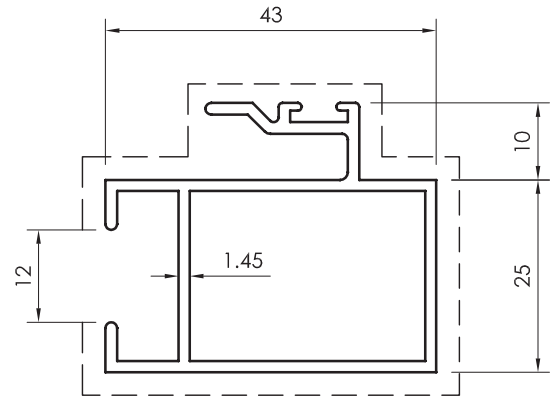


All dimensions in mm
----- Visible area

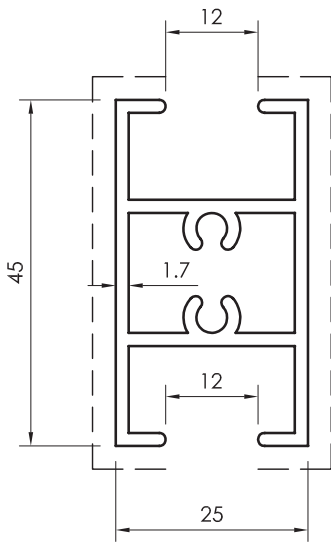
Sash Profiles
For Single Glass



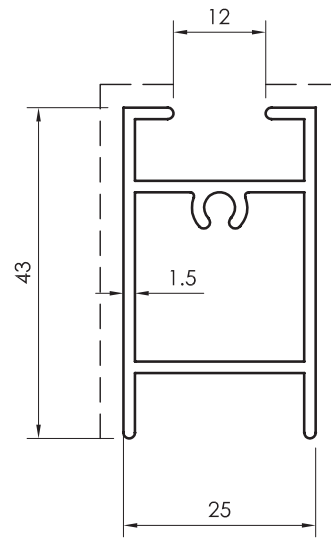
12240
(0.567 kg/m)



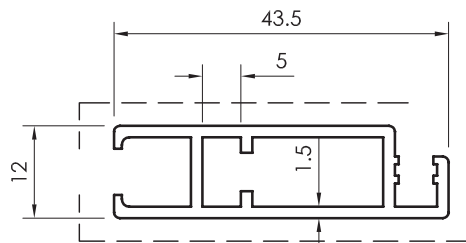
12241
(0.699 kg/m)



13534
(0.789 kg/m)



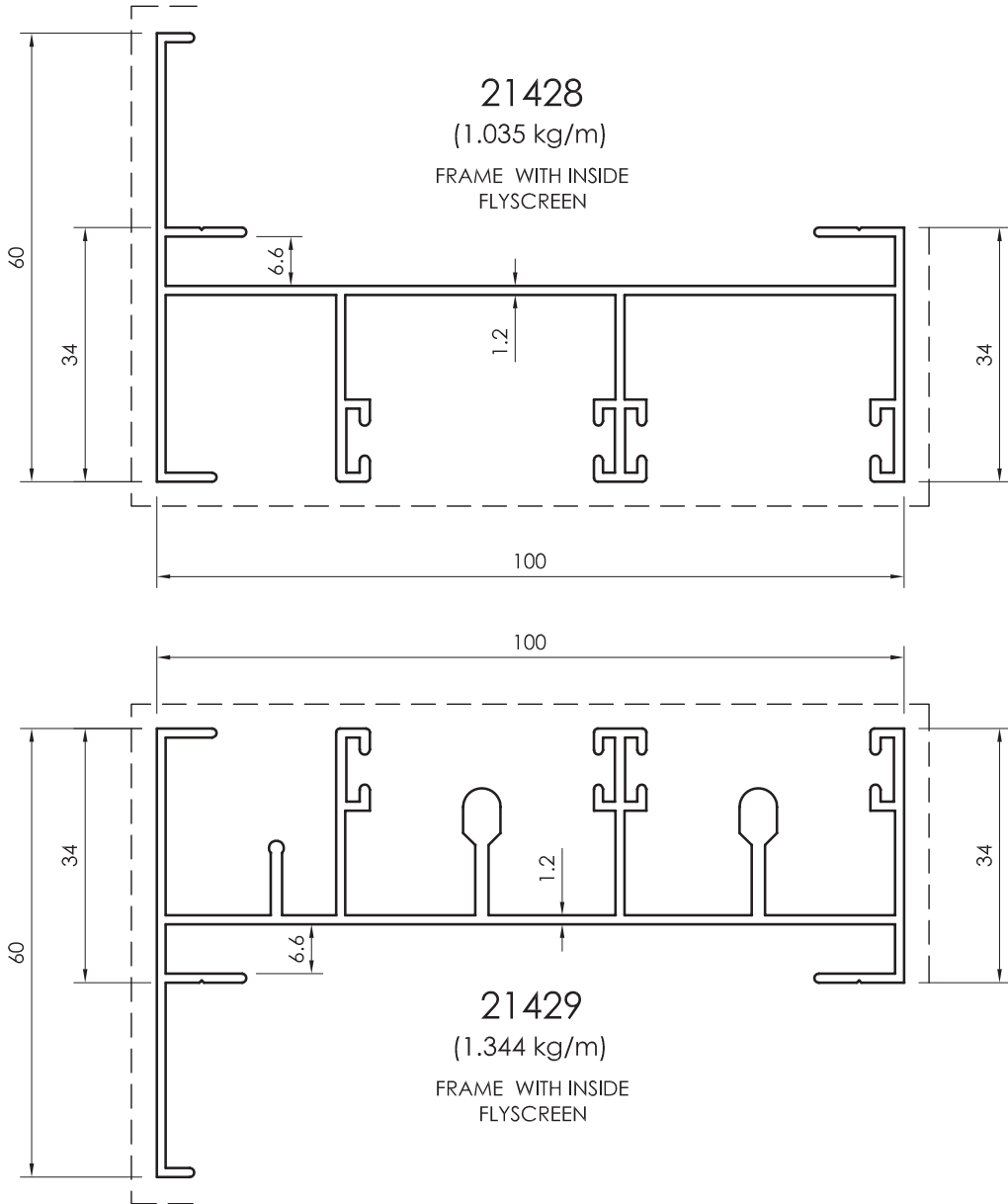
12242
(0.616 kg/m)



12007
(0.460 kg/m)

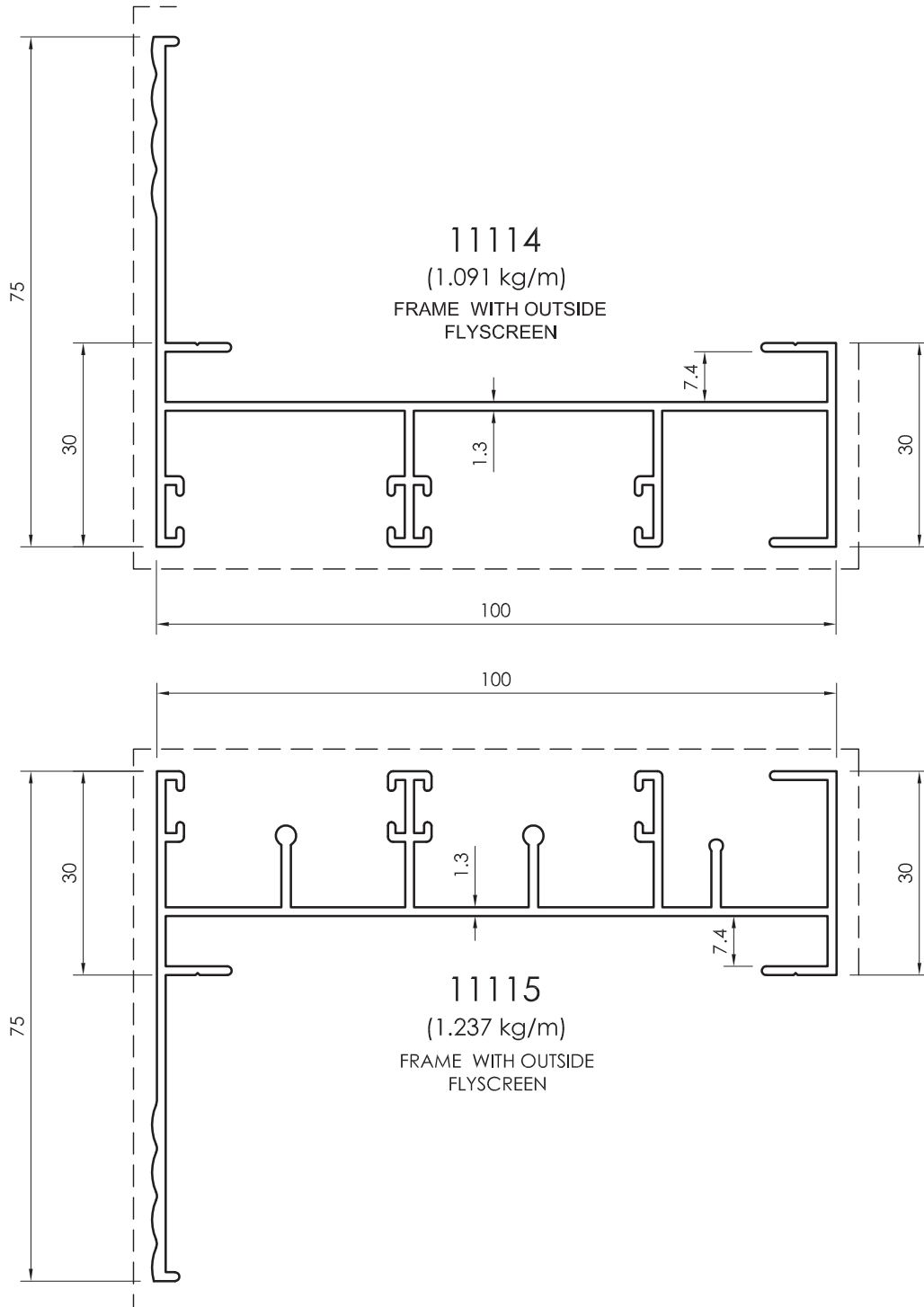
All dimensions in mm
Visible area_-----

Frame Profiles



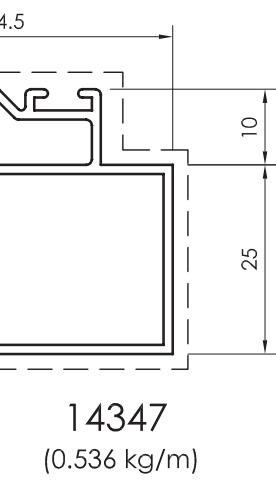
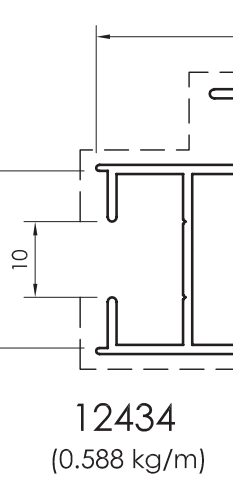
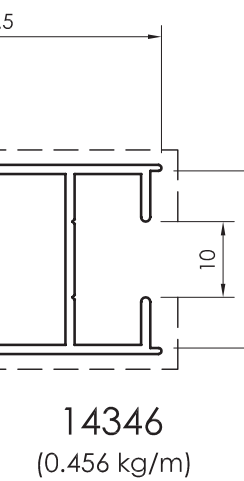
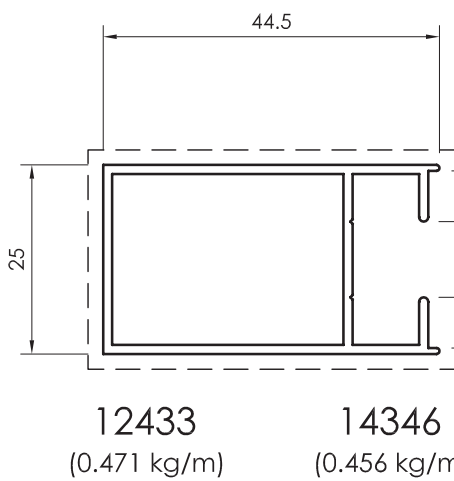
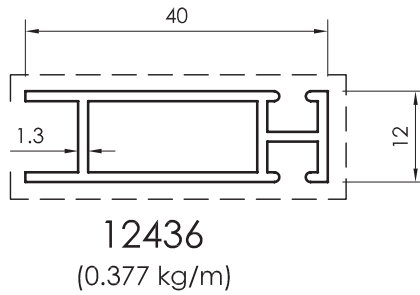
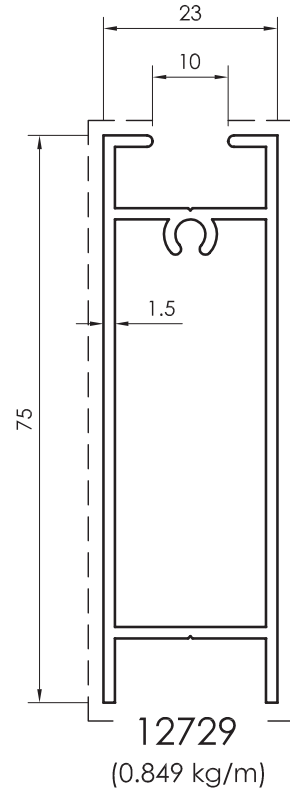
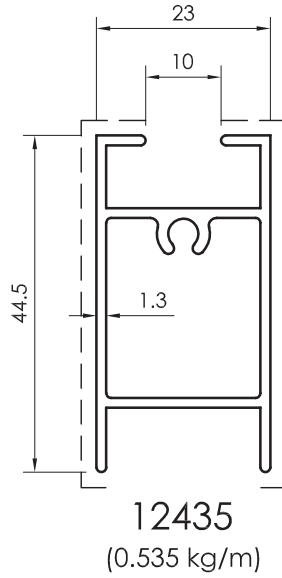
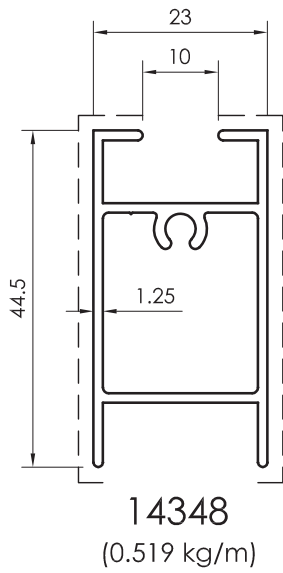
All dimensions in mm
-----Visible area

Frame Profiles



All dimensions in mm
Visible area_-----

Sash Profiles
For Single Glass



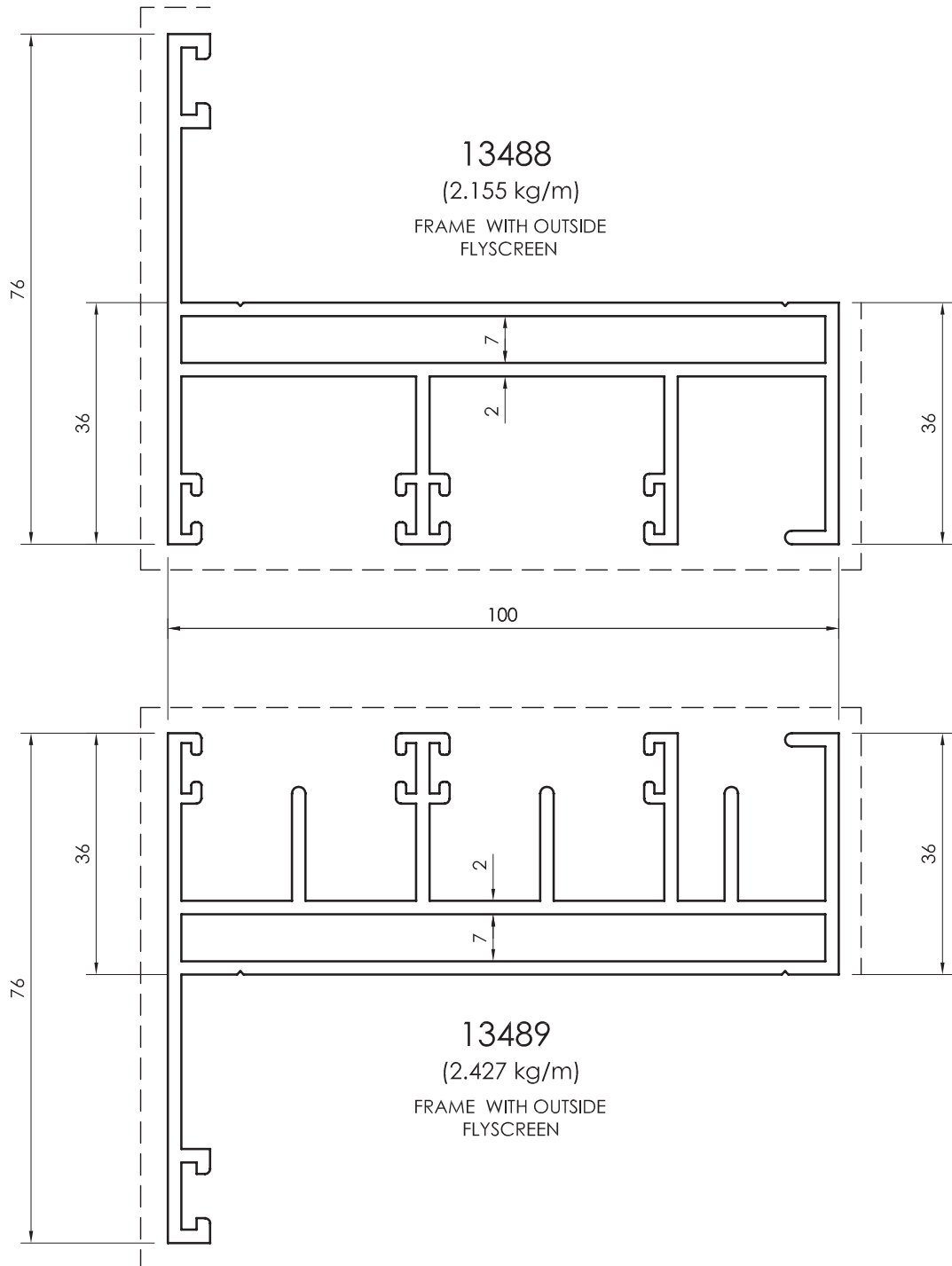
Wall thickness-1.2 mm Wall thickness-1.15 mm

Wall thickness-1.2 mm

Wall thickness-1.08 mm

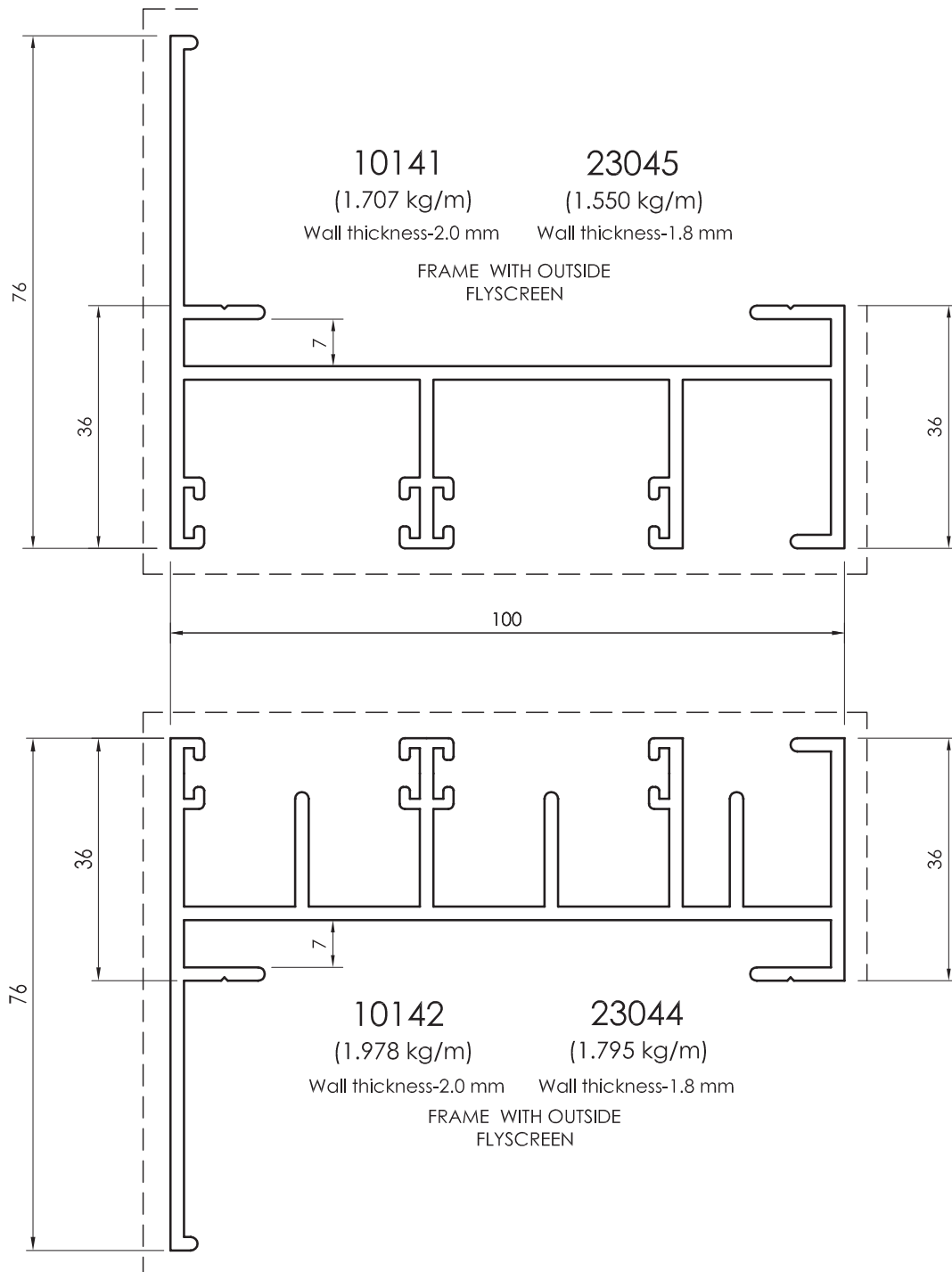
All dimensions in mm
----- Visible area

Frame Profiles



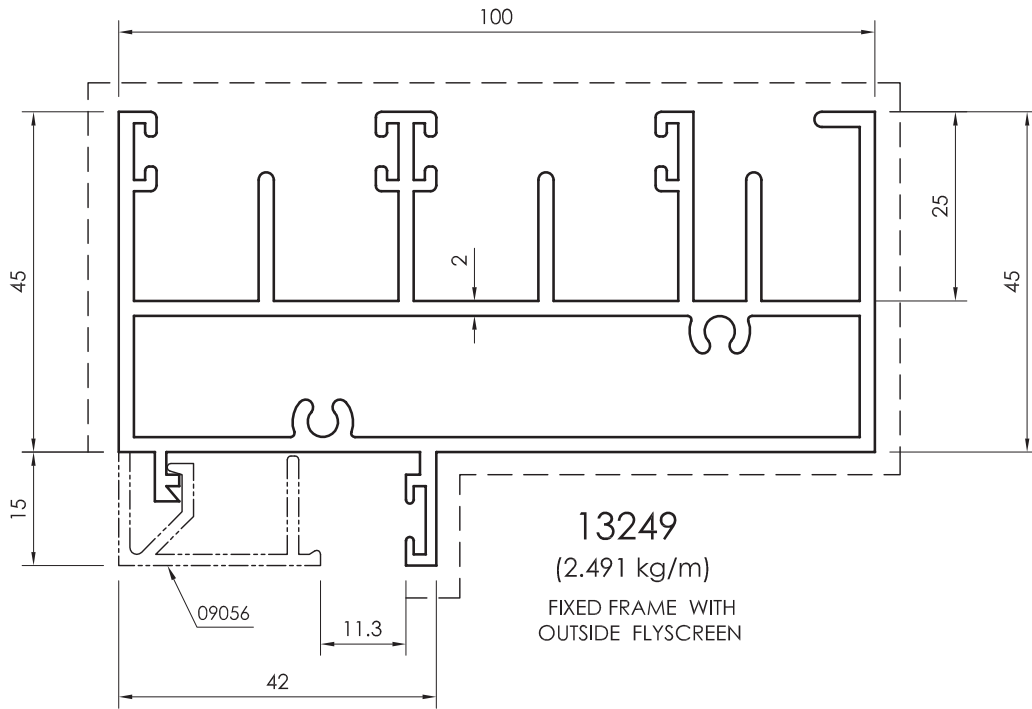
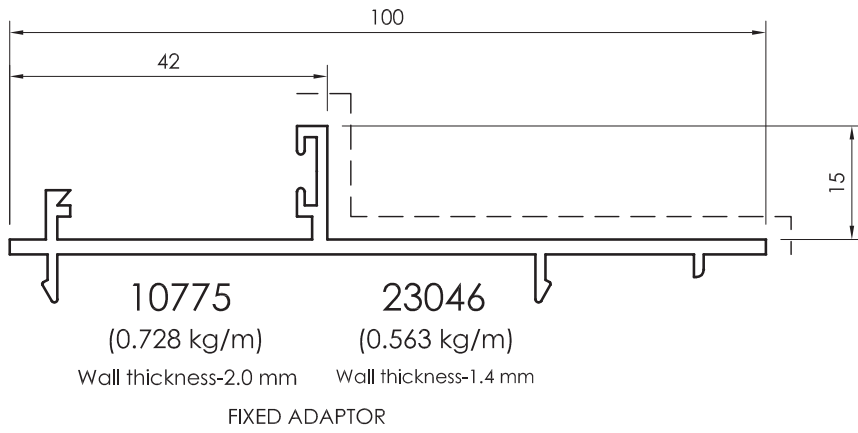
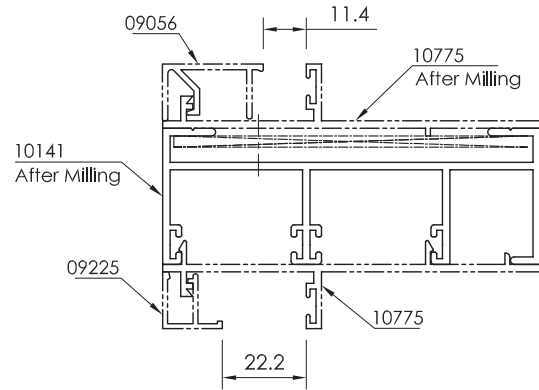
All dimensions in mm
Visible area_-----

Frame Profiles



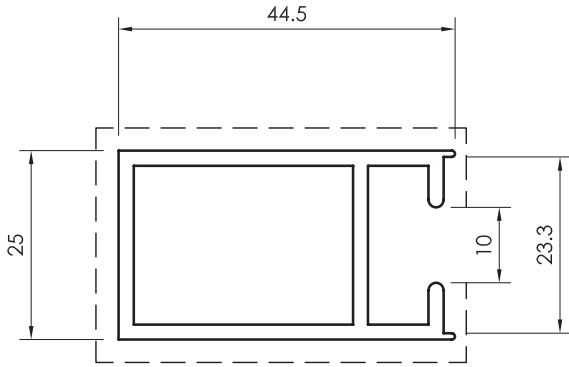
All dimensions in mm
 -----Visible area

Frame / Adaptor Profiles

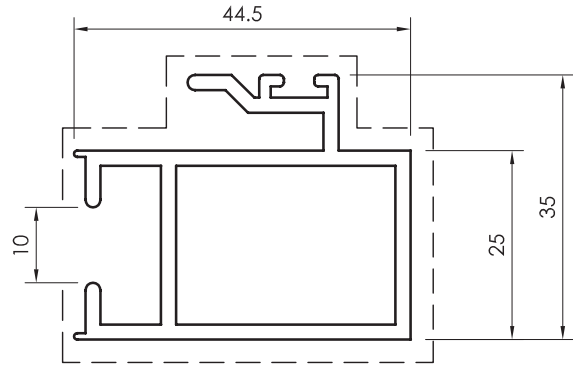


All dimensions in mm
Visible area_____

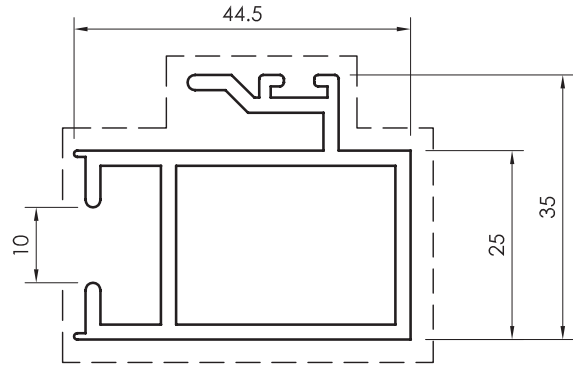
Sash Profiles
For Single Glass



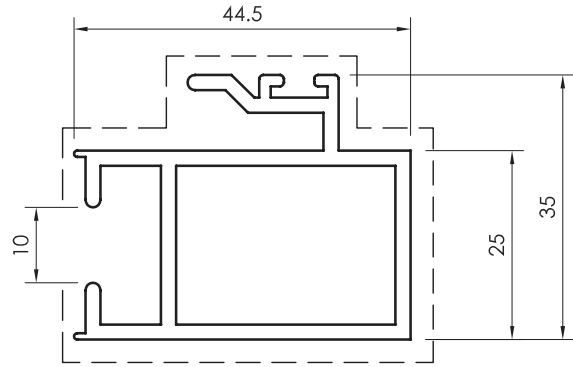
12710
(0.754 kg/m)
Wall thickness-2.0 mm



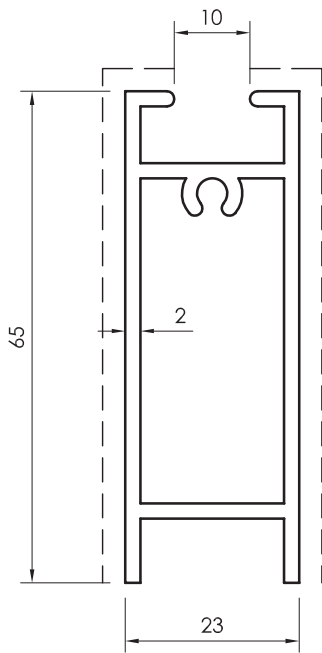
16512
(0.685 kg/m)
Wall thickness-1.8 mm



12711
(0.932 kg/m)
Wall thickness-2.0 mm



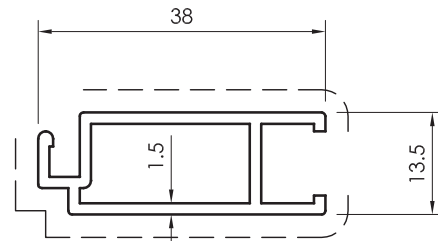
16511
(0.850 kg/m)
Wall thickness-1.8 mm



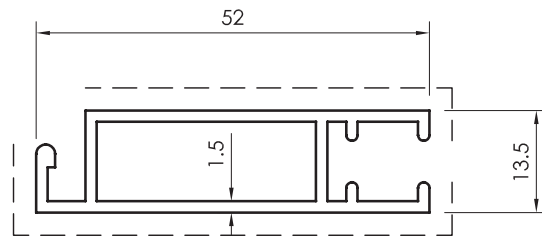
12712
(1.009 kg/m)
Wall thickness-2.0 mm



16394
(0.919 kg/m)
Wall thickness-1.8 mm



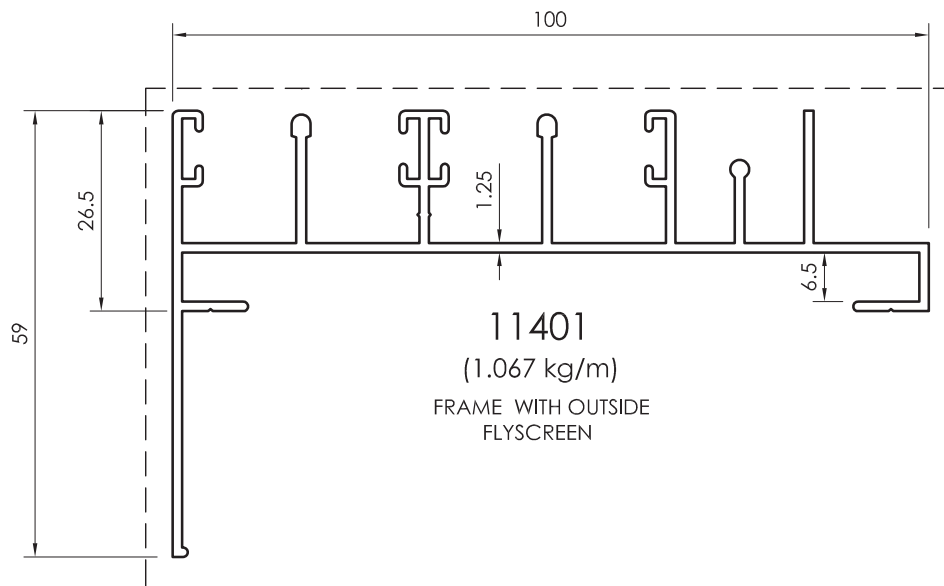
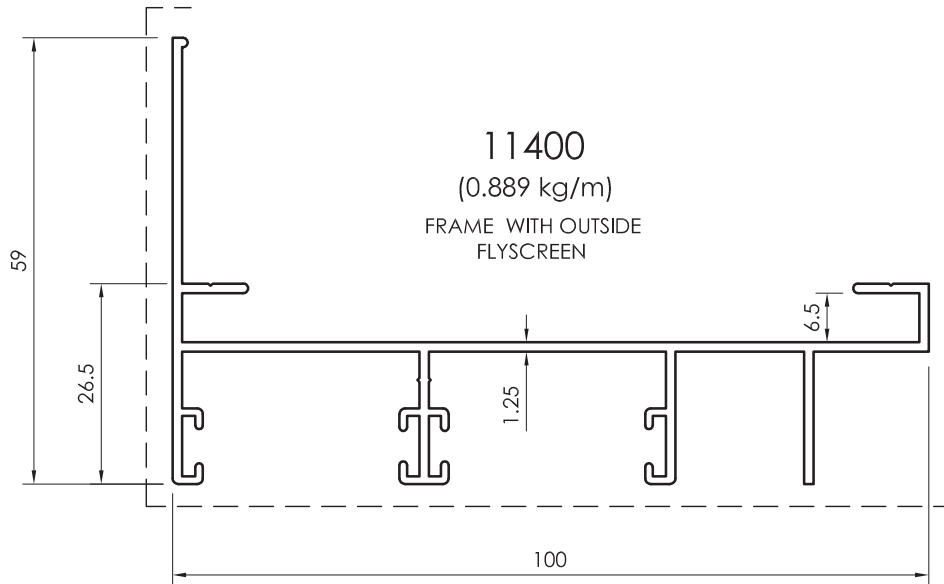
12034
(0.414 kg/m)



12095
(0.565 kg/m)

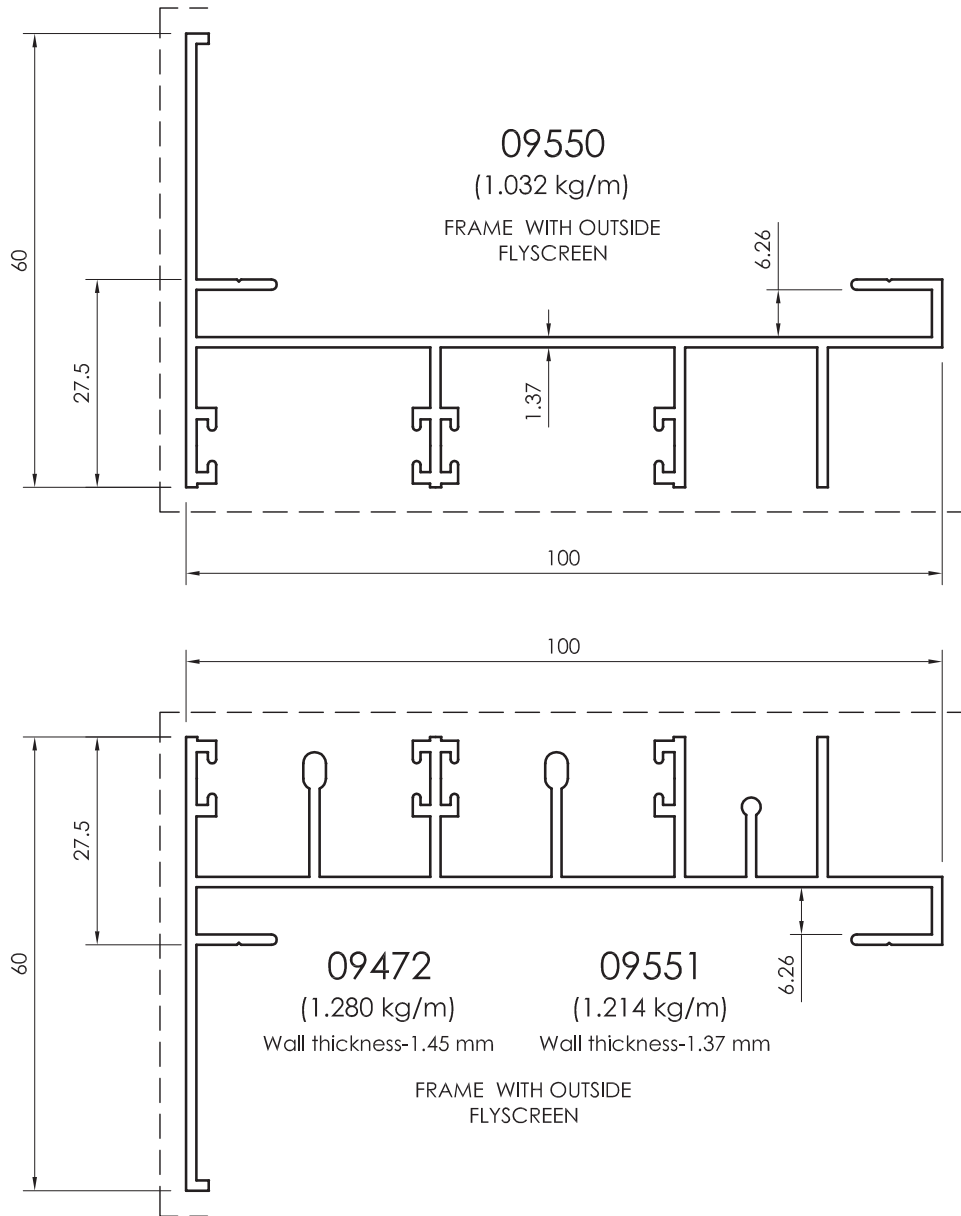
All dimensions in mm
----- Visible area

Frame Profiles



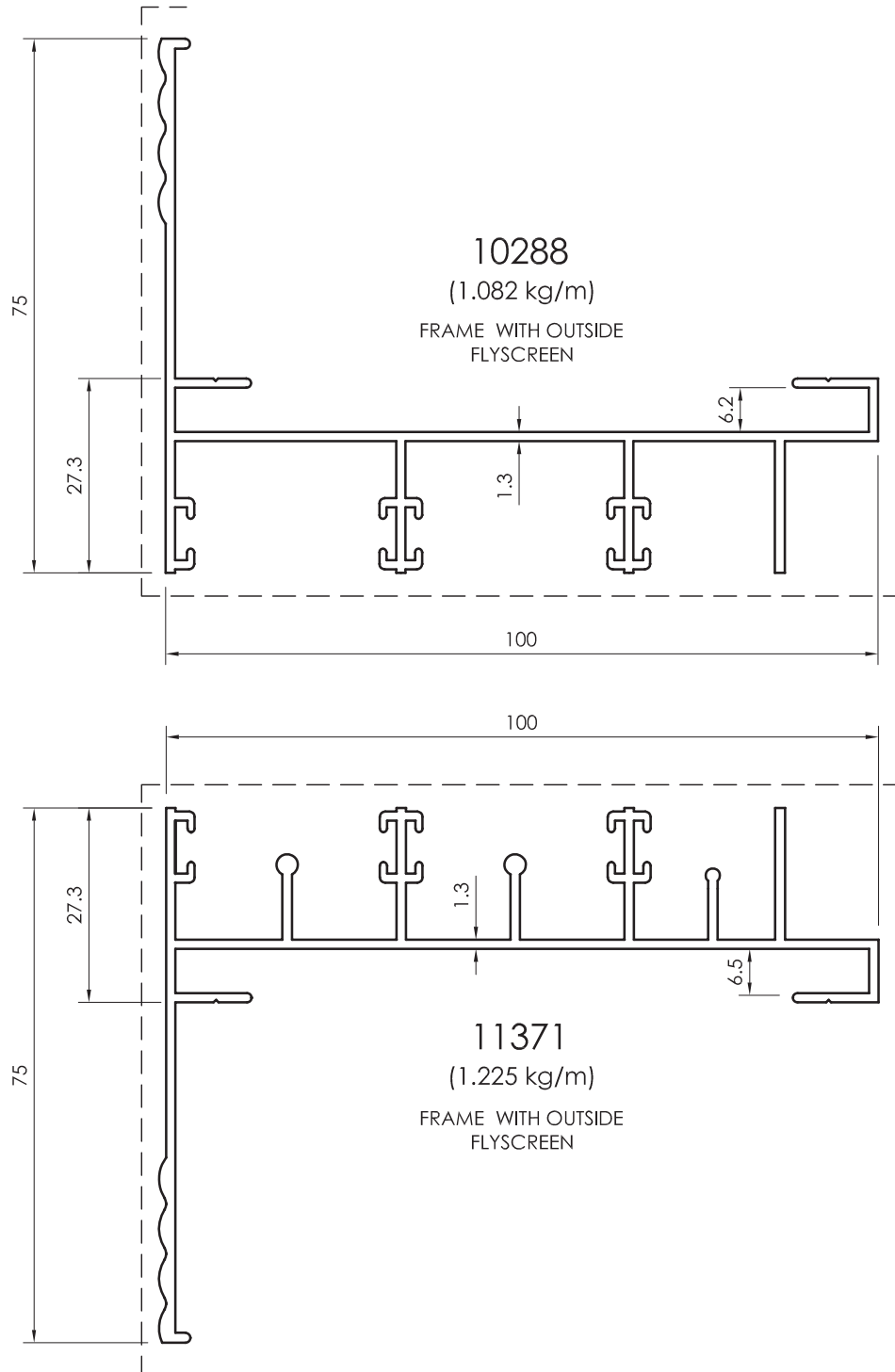
All dimensions in mm
Visible area_-----

Frame Profiles



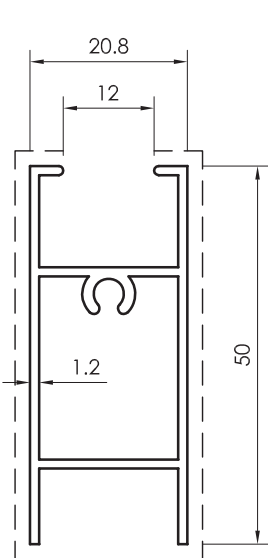
All dimensions in mm
 - - - - - Visible area

Frame Profiles

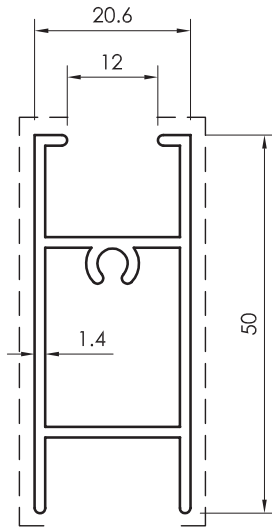


All dimensions in mm
Visible area_-----

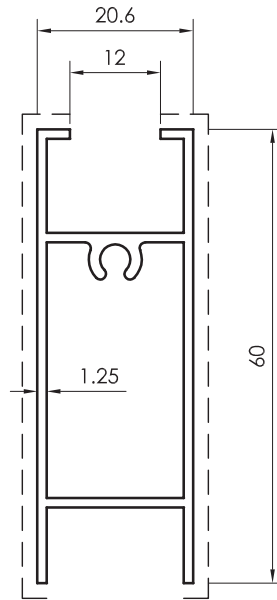
Sash Profiles
For Single Glass



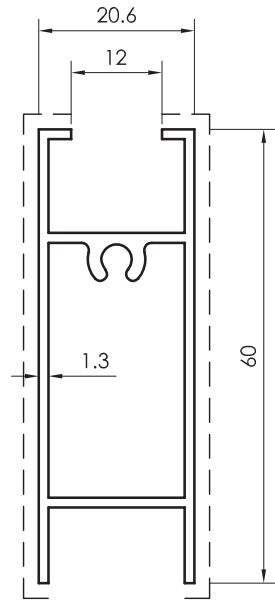
12497
(0.509 kg/m)



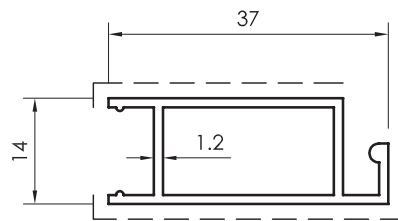
12239
(0.592 kg/m)



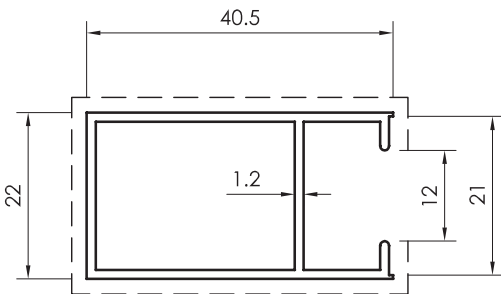
12294
(0.615 kg/m)



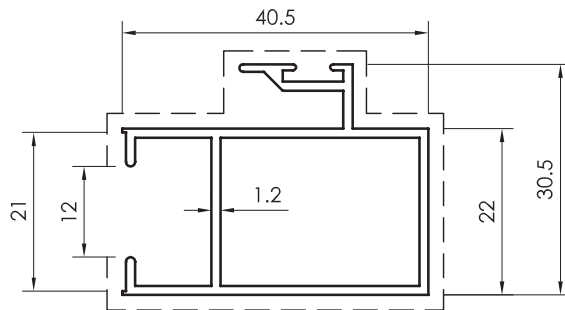
12237
(0.625 kg/m)



12498
(0.327 kg/m)



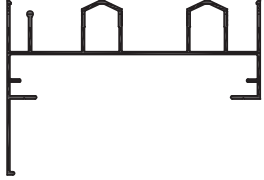
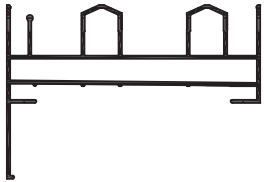
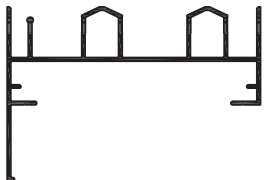
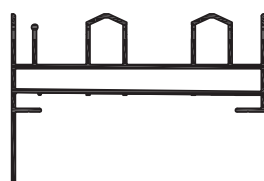

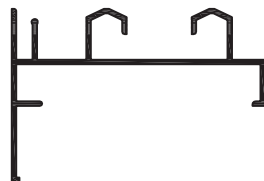

12495
(0.412 kg/m)

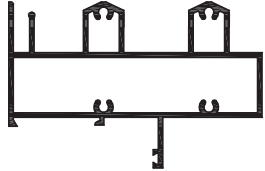
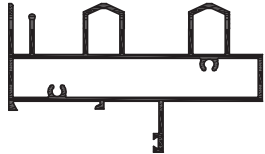
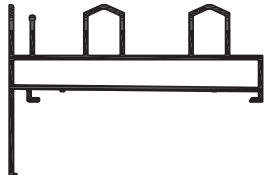
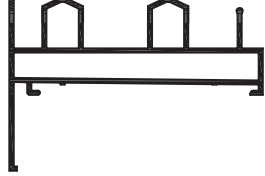
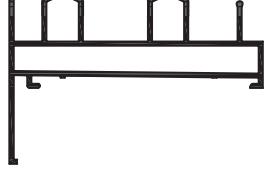
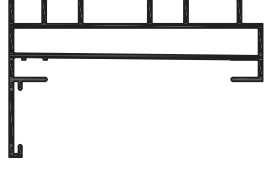
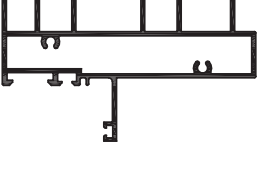



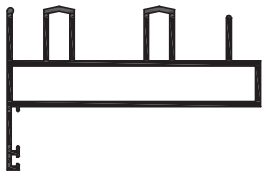
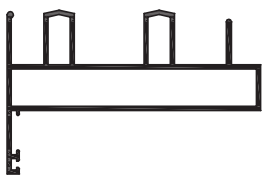
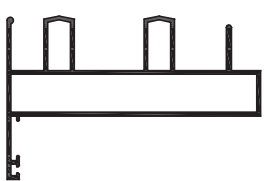
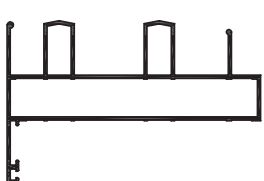
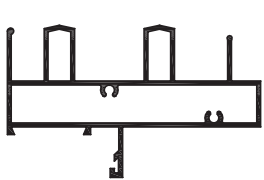
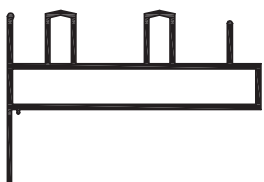
12496
(0.498 kg/m)

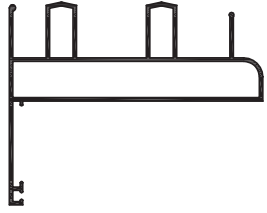
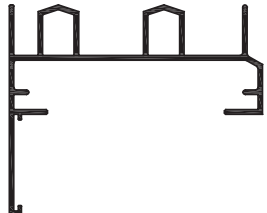
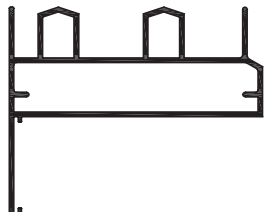
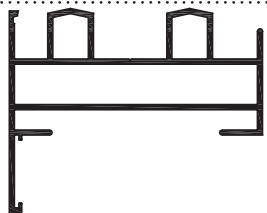
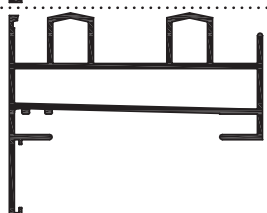
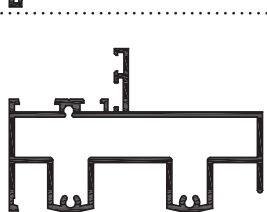
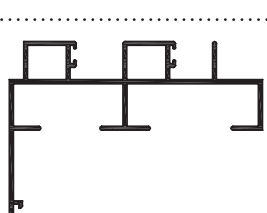
All dimensions in mm
----- Visible area

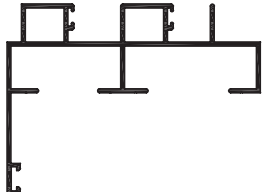
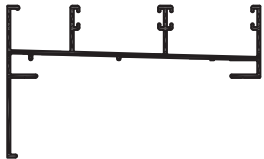
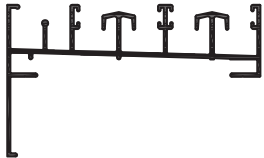
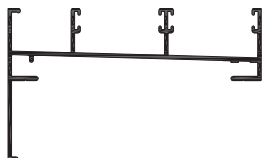
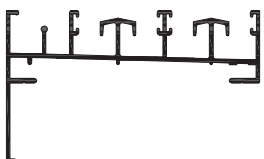

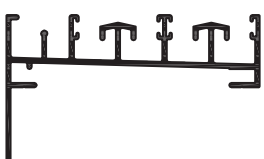
PROFILE LIST

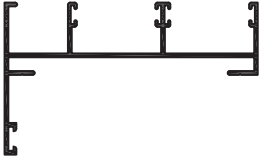

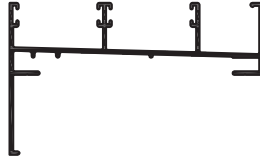
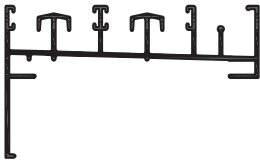

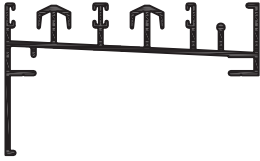

Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
15953		12	1.141	9.142	57.497	1.91	10.6
15930		12	1.553	10.755	69.95	2.35	13.107
14005		13	1.370	10.805	59.087	2.267	12.7
14006		13	1.778	12.004	79.549	2.627	14.905
17585		13	1.243	4.724	58.72	2.245	11.707
10139		14	1.396	11.587	64.040	2.474	10.680
12906		14	1.343	4.589	55.709	2.188	10.274

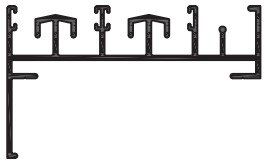
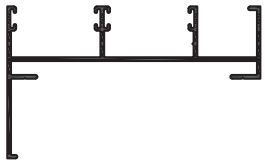
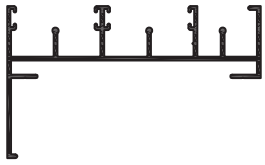

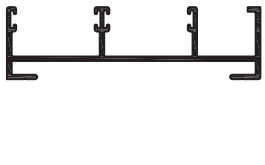
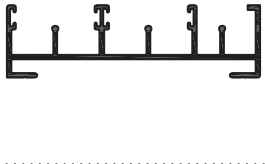
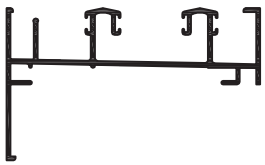
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
12931		15	2.167	21.890	77.642	5.647	15.126
14297		15	1.809	64.170	12.122	12.267	3.560
12671		16	1.803	12.564	73.631	2.823	13.034
16557		17	1.956	13.498	79.148	3.033	13.892
12615		17	1.803	12.564	73.199	2.823	12.848
13099		17	1.926	16.932	82.380	3.594	14.419
16738		18	2.000	13.690	64.734	3.6	11.856


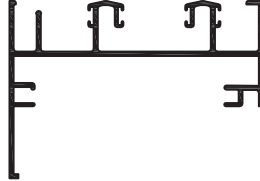
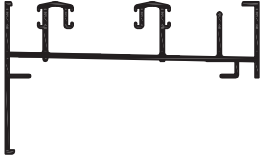
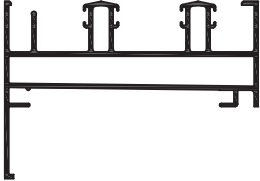

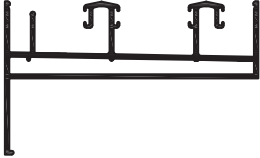
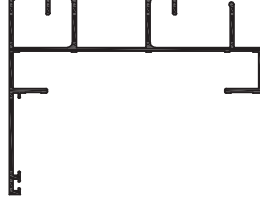
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
16999		24	3.168	19.927	124.61	4.803	21.95
17436		25	2.073	15.551	80.576	3.978	14.20
13421		25	1.763	14.245	69.461	3.634	12.165
13864		25	1.666	13.625	66.038	3.475	11.575
14781		25	1.406	11.740	55.85	3.014	9.659
15437		25	1.746	12.849	58.247	3.762	10.827
17435		26	2.117	21.753	83.745	3.752	14.448

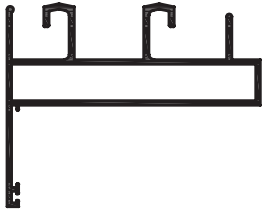
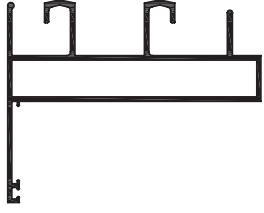
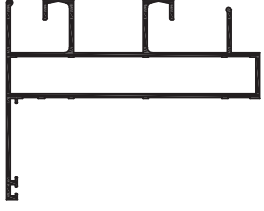
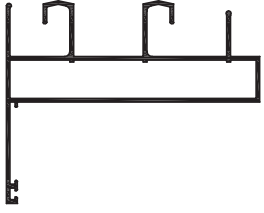
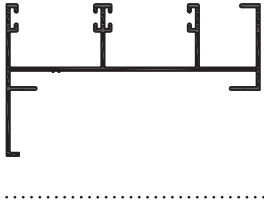
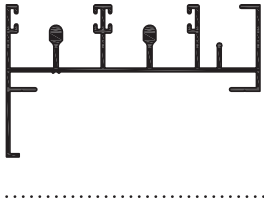
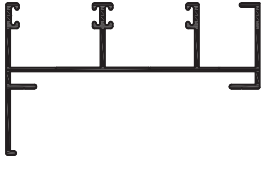
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
14662		26	1.590	18.768	62.16	3.581	10.411
13662		28	1.756	23.828	84.228	4.120	14.160
13663		28	2.096	26.86	90.35	4.876	15.592
13678		30	2.500	37.059	114.525	6.191	20.312
13679		30	2.542	36.828	116.495	6.143	20.543
13680		31	2.246	21.221	79.51	5.377	14.793
12718		34	1.566	18.297	61.032	3.446	10.203

Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
13137		34	1.485	17.776	57.269	3.336	9.570
11597		35	1.038	5.945	50.449	1.469	8.922
11598		35	1.345	7.075	58.096	1.643	10.881
11505		36	1.068	6.155	53.614	1.518	9.507
11506		36	1.395	7.472	51.954	1.735	11.595
11261		37	1.217	6.961	60.334	1.732	10.558
11262		37	1.597	8.576	70.323	2.0	13.054

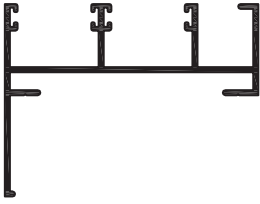
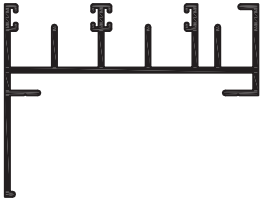
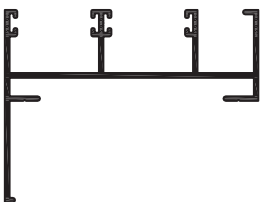
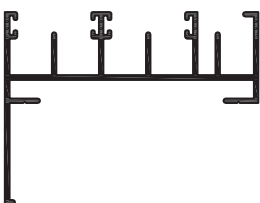
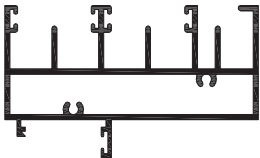
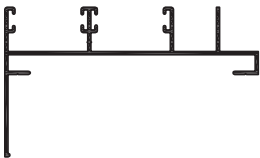
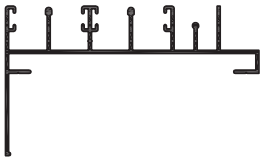
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
10282		38	1.110	7.319	54.590	1.875	9.432
10283		38	1.321	7.748	61.466	1.945	10.726
11599		39	1.083	6.306	54.144	1.566	9.671
11600		39	1.409	7.586	60.854	1.778	10.907
10087		40	1.265	7.200	63.407	1.796	11.407
09728		40	1.670	9.179	72.284	2.121	13.006
09187		41	1.328	7.280	62.943	1.837	11.357

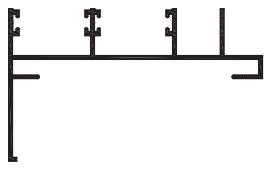
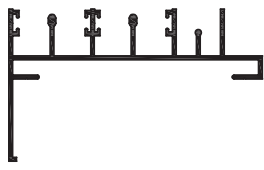
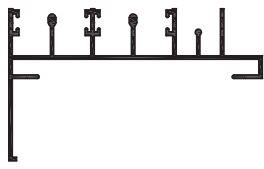
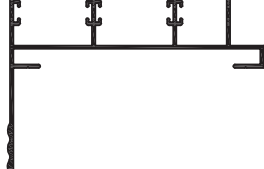
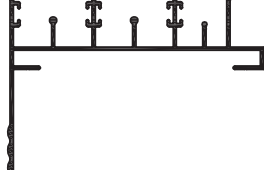
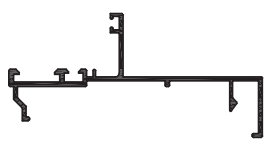

Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
09654		41	1.702	8.976	71.878	2.111	12.861
10160		42	1.085	6.344	53.837	1.594	9.705
10161		42	1.234	6.598	58.272	1.627	10.711
09188		43	1.479	7.597	68.145	1.880	12.541
09443		44	1.164	2.422	49.722	1.455	9.735
09444		44	1.315	2.536	53.789	1.559	10.476
10175		50	1.345	7.834	62.463	73.687	11.614








Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
10321		50	1.304	3.615	62.463	2.261	10.216
10461		51	1.621	13.930	52.096	2.886	15.571
10246		52	1.354	7.834	82.373	1.883	11.297
12980		51	2.025	15.616	62.221	3.358	16.92
21108		55	1.402	8.287	88.84	1.997	11.929
14512		55	1.780	9.541	65.397	2.432	13.751
11548		57	1.359	17.69	61.61	3.262	10.158


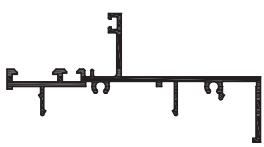





Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
13805		57	1.948	22.471	78.258	4.310	13.374
14734		57	1.830	31.391	74.53	4.114	12.755
14018		57	1.646	19.217	66.932	3.701	11.381
14733		57	1.560	18.373	63.61	3.557	10.827
11066		59	1.133	7.575	55.497	1.960	10.242
11067		59	1.442	8.154	61.667	1.236	3.398
09475		60	1.347	8.655	64.429	2.237	11.937



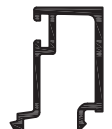




Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
09476		60	1.677	9.205	71.392	2.316	13.186
21428		62	1.035	6.995	50.226	1.790	9.161
21429		62	1.344	7.526	57.45	1.865	10.972
11114		63	1.091	12.756	55.886	2.444	9.594
11115		63	1.237	13.214	59.62	2.481	10.393
13488		65	2.155	22.122	95.860	4.563	17.232
13489		65	2.427	23.423	103.616	4.712	18.963








Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
10141		66	1.707	17.377	85.889	3.375	15.433
10142		66	1.978	18.157	98.627	3.454	17.205
23045		66	1.550	15.828	77.52	3.069	13.838
23044		66	1.795	16.527	84.55	3.14	15.442
13249		67	2.491	19.888	96.122	5.989	19.213
11400		69	0.889	4.762	38.34	1.166	6.494
11401		69	1.067	5.38	41.81	1.270	7.130







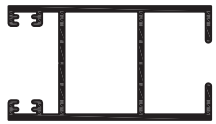
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
09550		70	1.032	5.804	43.828	1.413	7.412
09472		70	1.280	6.762	49.877	1.593	8.472
09551		70	1.214	6.484	47.464	1.524	8.053
10288		71	1.082	13.225	48.411	2.542	7.812
11371		71	1.225	13.877	51.592	2.6	8.429
23270		18	0.890	2.572	35.093	0.975	6.838
11534		19	0.659	0.743	20.303	0.384	3.934


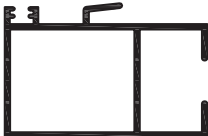
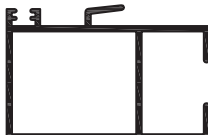
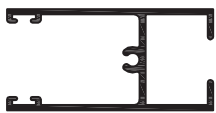
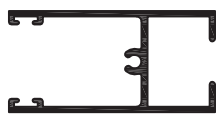


Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
10369		19	0.680	0.368	18.853	0.359	3.758
10086		19	0.849	1.706	33.098	0.793	6.221
23547		25	0.847	1.817	32.555	0.797	5.972
11247		31	0.967	1.750	30.437	0.750	5.762
10779		45	0.646	0.338	20.465	0.230	3.821
11263		45	0.681	0.365	22.225	0.244	4.167
10186		51	0.733	0.507	21.022	0.282	3.911

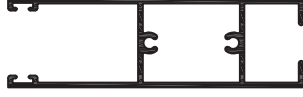

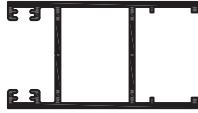

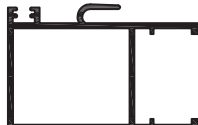
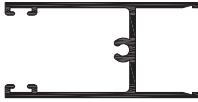

Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
10267		52	0.745	0.516	21.040	0.286	4.011
11380		57	1.060	2.817	35.993	1.060	6.969
10775		67	0.728	0.387	21.883	0.260	4.092
23046		67	0.563	0.362	17.098	0.250	3.136
10048		19	0.395	0.596	3.309	0.432	1.526
10047		19	0.333	0.561	2.016	0.429	1.060
21274		19	0.314	0.536	1.499	0.437	0.709


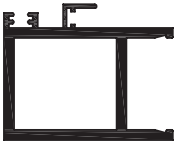

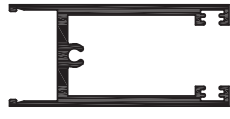
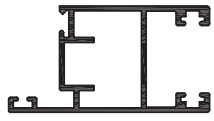
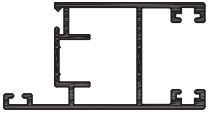
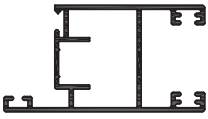
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
10371		20	0.298	0.840	0.746	0.495	0.471
22927		20	0.269	0.787	0.677	0.473	0.441
10377		20	0.282	0.742	0.385	0.488	0.327
23195		20	0.258	0.699	0.356	0.468	0.313
10464		20	0.271	0.812	0.254	0.598	0.186
22928		20	0.226	0.698	0.220	0.503	0.164
11321		20	0.251	0.696	0.241	0.497	0.170



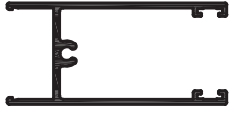

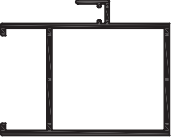
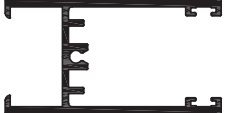

Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
11730		20	0.286	0.796	0.697	0.487	0.453
11729		20	0.242	0.632	0.233	0.436	0.167
23194		20	0.249	0.644	0.333	0.453	0.292
10158		25	0.254	0.511	0.653	0.487	0.317
10157		25	0.248	0.381	1.317	0.282	0.824
10934		27	0.154	0.222	0.120	0.201	0.126
10935		27	0.096	0.118	0.017	0.118	0.024

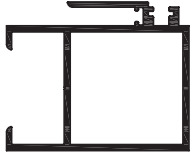
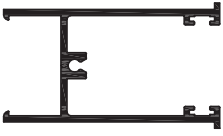
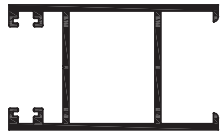


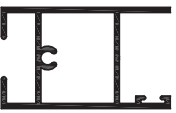

Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
11248		31	0.308	0.684	0.497	0.663	0.45
09225		45	0.165	0.139	0.124	0.147	0.125
09056		45	0.290	0.217	0.797	0.219	0.523
09504		45	0.249	0.202	0.732	0.732	0.473
09294		52	0.226	0.285	0.900	0.900	0.568
09043		52	0.223	0.292	1.059	1.059	0.640
12616		21	0.957	6.626	11.887	3.944	3.855


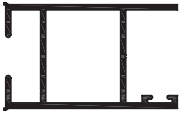
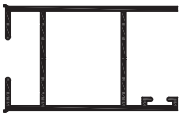
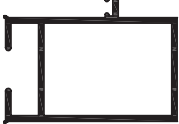
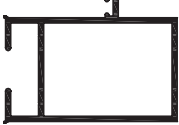
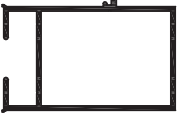

Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
14124		21	0.909	6.326	11.449	3.765	3.702
12617		21	0.974	7.590	14.009	3.688	4.389
14125		21	0.937	7.359	13.413	3.594	4.196
10010		21	0.826	4.773	9.275	3.182	2.942
11702		21	0.770	4.516	9.243	3.011	2.806
12669		21	1.011	5.577	15.279	3.718	4.064
14126		21	0.958	5.326	14.724	3.551	3.937


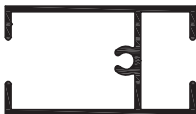
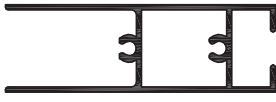


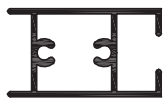
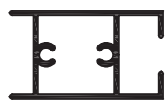
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
14022		21	1.298	39.982	7.458	7.428	4.972
12321		22	0.911	6.509	9.923	3.874	3.042
15926		23	0.734	5.354	8.187	3.187	2.481
12322		22	0.934	7.492	11.905	3.710	3.529
15927		23	0.748	6.165	9.612	3.102	2.842
09931		22	0.759	7.741	4.503	2.525	3.002
14298		22	0.972	12.387	5.292	3.427	3.528


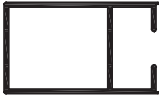




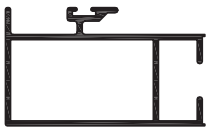
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
15928		23	0.764	4.414	7.723	2.885	2.466
17000		24	1.348	9.322	11.960	4.236	4.131
17001		24	1.521	10.015	17.477	6.033	5.205
23535		24	1.196	6.789	13.886	4.526	4.230
13422		27	0.850	4.843	8.478	2.815	2.616
13865		27	0.796	4.589	8.093	2.668	2.467
15230		27	0.728	4.174	7.345	2.412	2.281


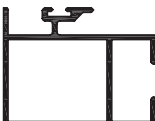
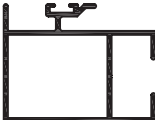
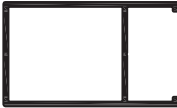
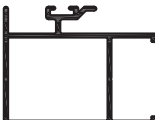
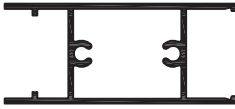
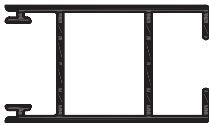
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
10933		27	0.348	1.705	1.412	0.658	0.534
21759		27	0.302	1.507	1.214	0.583	0.460
11239		29	0.764	4.565	10.207	3.043	2.923
13664		29	0.889	6.376	12.138	3.840	3.595
13665		29	0.726	5.525	6.587	2.530	2.432
11246		32	0.987	7.027	12.499	3.799	3.689
13681		32	1.081	9.235	13.516	4.991	4.128


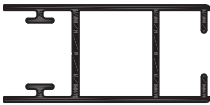
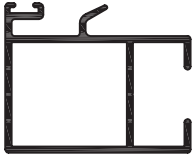
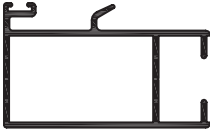



Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
13682		32	1.069	10.424	11.197	4.659	3.695
23820		33	0.926	6.763	11.788	3.655	3.581
17276		33	1.063	9.132	12.861	4.936	3.867
17275		33	1.085	11.144	10.847	4.782	3.512
12727		34	0.796	4.109	6.304	2.678	2.270
13140		34	0.753	3.912	6.029	2.538	2.179
13862		34	0.666	3.475	5.382	2.247	1.942

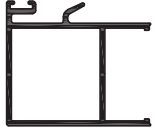
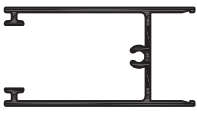
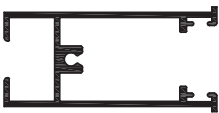
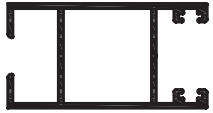
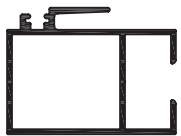
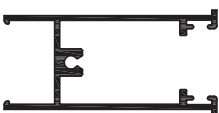
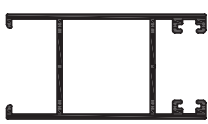
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
12719		34	0.757	4.185	6.257	2.621	2.284
13139		34	0.717	3.987	5.984	2.486	2.192
13861		34	0.629	3.543	5.324	2.2	1.953
12728		34	0.814	5.124	8.382	2.540	3.305
13141		34	0.767	4.862	7.926	2.413	3.124
13863		34	0.680	4.402	7.0	2.213	2.759
09041		46	0.622	2.431	4.339	1.885	1.782

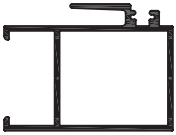
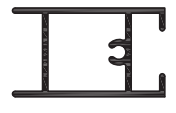
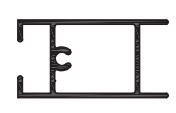
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
10162		46	0.565	2.237	4.029	1.731	1.657
11507		46	0.526	2.128	3.811	1.649	1.566
12767		46	1.005	18.122	4.022	3.977	3.1138
12390		46	1.038	22.258	4.064	5.284	3.145
13979		46	0.845	22.258	4.064	5.284	3.145
12126		47	0.740	4.358	2.455	1.989	1.903
12723		47	0.634	4.538	2.455	1.989	1.903




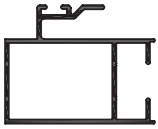
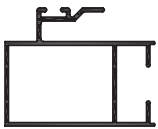


Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
12032		47	0.616	2.709	5.265	2.007	2.289
12721		47	0.558	2.480	4.805	1.72	2.091
13977		47	0.527	2.34	4.584	1.733	1.997
12031		47	1.054	25.762	4.149	6.441	3.216
12833		47	0.909	22.386	3.662	5.406	2.839
12765		48	0.724	3.361	10.418	2.489	3.510
12766		48	0.867	4.898	11.504	2.654	3.706

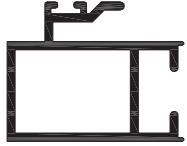
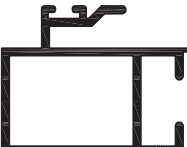





Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
12033		48	0.756	4.204	5.918	2.333	2.406
12722		48	0.690	3.872	5.4	2.157	2.196
13978		48	0.650	3.63	5.133	2.017	2.1
14499		49	0.485	2.235	3.781	1.656	1.522
14500		49	0.609	3.505	4.231	1.975	1.624
14501		49	0.666	6.649	2.643	2.193	2.048
14265		53	0.699	3.427	5.720	2.422	2.284



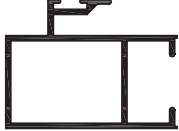


Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
12743		53	0.663	3.185	4.301	2.250	1.888
12981		53	0.837	4.140	9.107	2.926	2.999
12744		53	0.734	4.252	6.066	2.206	2.432
12982		53	0.855	5.084	12.663	2.584	3.894
10176		54	0.685	8.094	2.861	2.435	2.289
12905		54	0.981	18.781	3.840	4.236	3.072
14513		56	0.713	4.556	5.258	2.821	1.922








Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
14514		56	0.713	5.216	5.238	2.581	1.934
21109		56	0.700	8.125	4.483	2.643	2.892
11370		58	0.860	4.097	11.762	2.643	3.467
13806		58	0.856	5.109	10.96	3.296	3.632
13807		58	0.831	5.674	8.063	3.020	3.028
11369		58	0.812	3.96	10.23	2.554	3.175
13808		58	0.807	4.971	9.307	3.207	2.912








Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
13809		58	0.782	5.517	6.782	2.917	2.402
12240		61	0.567	2.159	4.453	1.727	2.065
12241		61	0.699	3.688	4.598	1.984	2.060
12242		61	0.616	3.545	2.163	1.519	1.730
13534		61	0.789	2.620	4.719	2.096	2.097
12435		64	0.535	1.637	3.406	1.423	1.399
14348		64	0.519	1.588	3.311	1.381	1.356




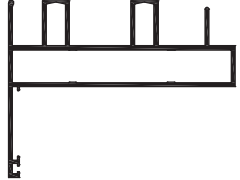
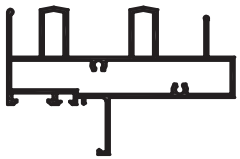


Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
12729		64	0.849	2.9	17.7	2.521	4.409
12433		64	0.471	1.831	3.85	1.464	1.710
14346		64	0.456	1.782	3.758	1.425	1.683
12434		64	0.588	3.184	4.099	1.710	1.740
14347		64	0.536	2.938	3.772	1.583	1.607
12710		68	0.754	2.759	5.887	2.208	2.586
16512		68	0.685	2.546	5.412	2.036	2.384



Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
12711		68	0.932	4.767	6.229	2.532	2.636
16511		68	0.850	4.418	5.737	2.356	2.429
12712		68	1.009	15.222	3.215	4.365	2.795
16394		68	0.919	2.963	1.983	2.576	3.982
12239		72	0.592	1.473	4.221	1.43	1.617
12497		72	0.509	1.332	3.478	1.280	1.426
12237		72	0.625	1.64	7.072	1.592	2.227

Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
12294		72	0.615	1.583	6.79	1.537	2.146
12495		72	0.412	1.253	2.668	0.594	1.266
12496		72	0.498	2.014	2.776	1.213	1.276
15929		23	0.461	0.538	3.517	0.721	1.448
12282		24	0.513	0.583	3.749	0.781	1.551
13423		27	0.510	0.781	3.690	0.881	1.553
13810		58	0.478	0.734	3.256	0.822	1.338






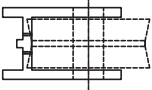


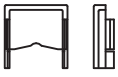
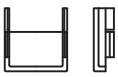
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
13683		32	0.536	0.455	4.006	0.586	1.595
13138		34	0.415	0.347	1.766	0.441	0.892
12724		49	0.447	0.747	3.731	0.871	1.622
12204		49	0.497	0.747	3.731	0.871	1.622
12007		61	0.460	0.365	2.766	0.570	1.267
12436		64	0.377	0.298	2.133	0.496	0.993
12034		68	0.414	0.405	2.018	0.588	1.039


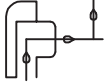




Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
12095		68	0.565	0.587	5.252	0.826	1.998
12498		72	0.327	0.373	1.586	0.494	0.833
12745		56	0.457	0.503	3.191	0.679	1.414
10728		22	0.342	0.944	0.414	0.562	0.308
11254		29	0.549	1.249	3.096	0.935	1.563
11240		29	0.228	0.215	0.740	0.291	0.543
09201		48	0.500	4.281	0.532	2.168	0.451

Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
10885		54	0.453	2.490	0.377	1.496	0.352
10219		56	0.633	0.047	22.115	0.120	4.294
17745		27	1.945	15.713	74.870	4.023	13.031
17539		26	1.979	21.944	78.514	4.252	13.318
17744		27	1.820	13.556	59.419	3.503	10.832
24201		27	0.742	2.207	27.738	0.869	5.472
17615		28	1.023	12.330	5.776	3.499	3.420

Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
18269		28	0.907	11.308	5.158	3.172	3.058
25410		28	0.098	--	--	--	--

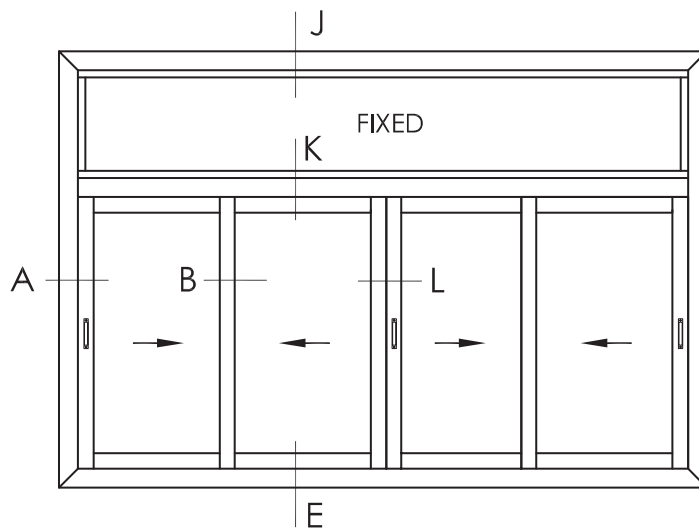
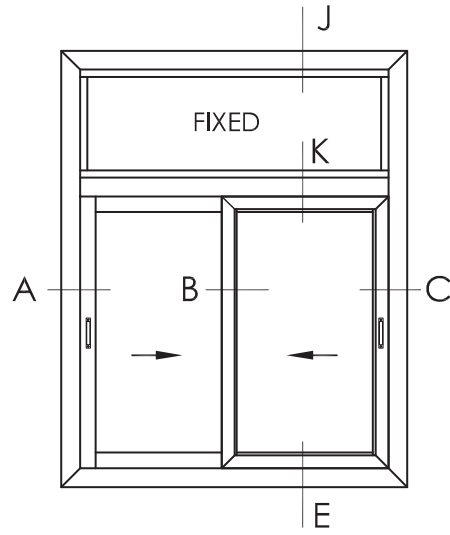
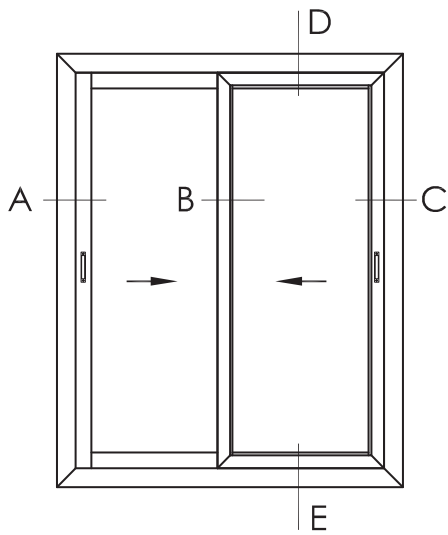
ACCESSORIES

Gasket/Accessories Reference	Section	Description	Unit
GE-G-009		FIX ADAPTOR GASKET	Linear Meter
GE-G-010		GLAZING BEAD GASKET	Linear Meter
GE-G-034		FIX ADAPTOR GASKET	Linear Meter
BRUSH - 4.5mm		4.5MM HIGH REGULAR BRUSH FOR FRAME/SASH PROFILE	Linear Meter
BRUSH - 6.5mm		6.5MM HIGH REGULAR BRUSH FOR FRAME/SASH PROFILE	Linear Meter
ROLLER		ROLLER USED AT THE BOTTOM OF THE BOTTOM SASH PROFILE	Pieces
ROLLER		ROLLER USED AT THE BOTTOM OF THE FLYSCREEN PROFILE	Pieces
FLUSH HANDLE		SUITABLE FLUSH TYPE HANDLE WITH LOCKING ARRANGEMENT (COUNTERPLATE + NIB)	Pieces
BOTTOM END CAP		PLASTIC END CAP TO COVER MILLED PART AT THE BOTTOM OF THE INTERLOCK PROFILES	Pieces
TOP END CAP		PLASTIC END CAP TO COVER MILLED PART AT THE TOP OF THE INTERLOCK PROFILES	Pieces

Gasket/Accessories Reference	Section	Description	Unit
SUC-120		DRAINAGE VALVE	Pieces
SUP-120		DEFLECTOR	Pieces
SCR-19		B 4.2 X 19 - DIN 7982 - A2 FOR FRAME CORNER	Pieces
SCR-20		M 5 X 20 - DIN 965 - A2 FOR ROLLER FASTENING	Pieces
SCR-32		B 4.2 X 32 - DIN 7981 - A2 FOR SASH CORNER	Pieces
SCR-45		B 4.2 X 45 - DIN 7981 - A2 FOR SASH CORNER	Pieces

ASSEMBLY DRAWINGS

Sliding Window / Door Series 100
 Inside Flyscreen with Architrave

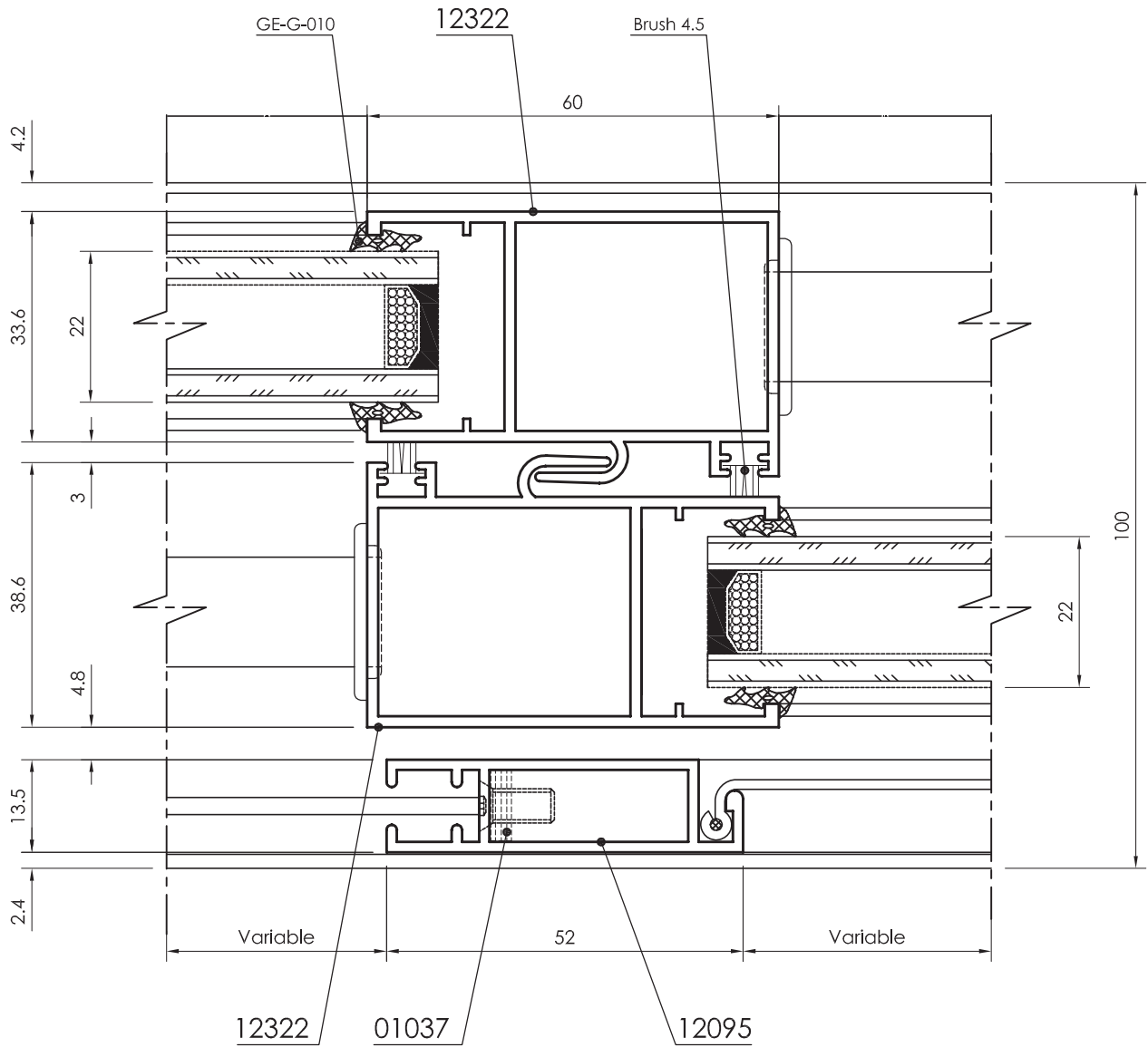


All dimensions in cross sections are shown in mm
 Profile are not necessarily shown to scale

Sliding Window / Door Series 100

Detail - B

Insulated Glass unit
with Thickness 22mm

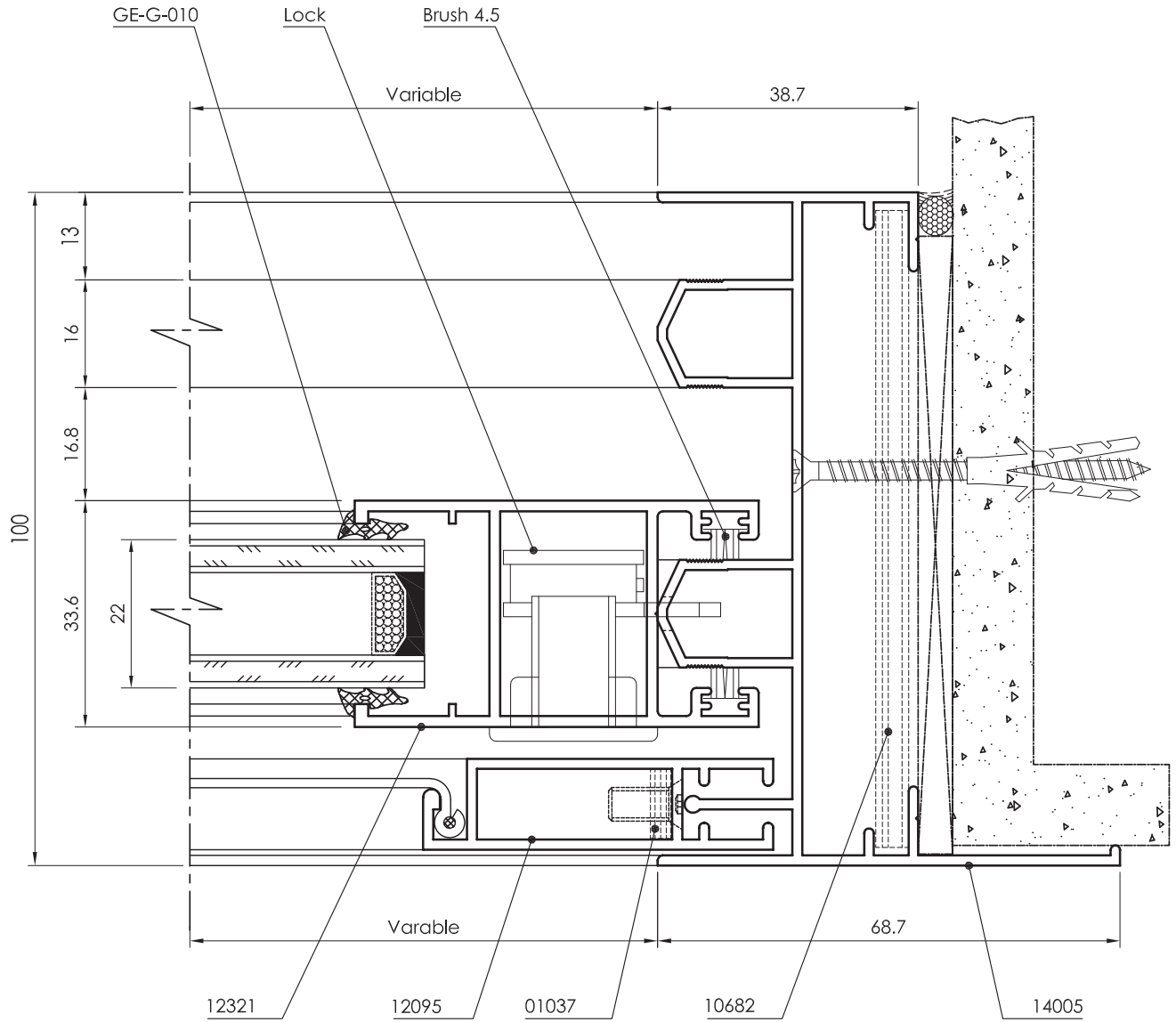


All dimensions in mm
Visible area_-----

Sliding Window / Door Series 100

Detail - C

Insulated Glass unit
with Thickness 22mm

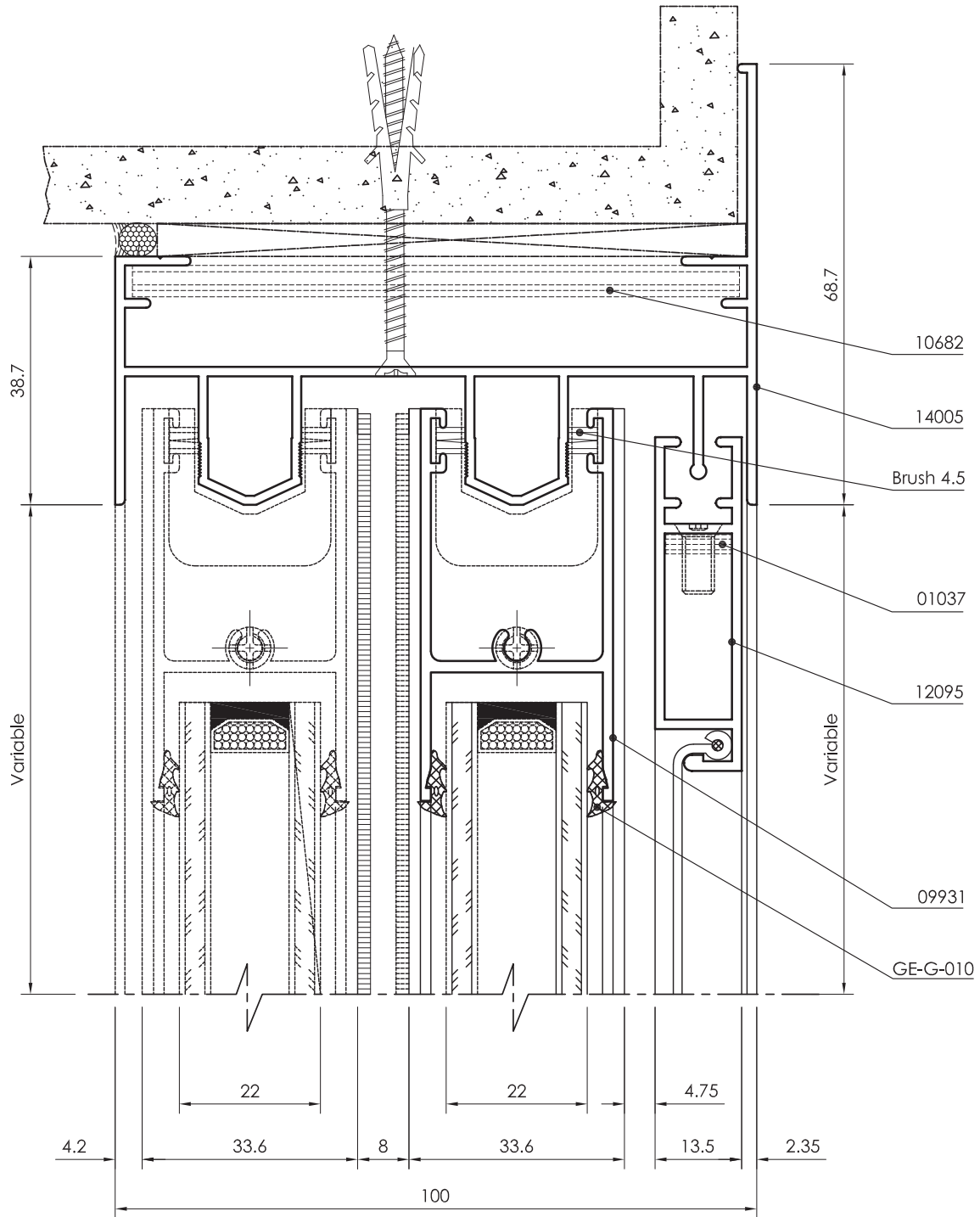


All dimensions in mm
--- Visible area

Sliding Window / Door Series 100

Detail - D

Insulated Glass unit
with Thickness 22mm

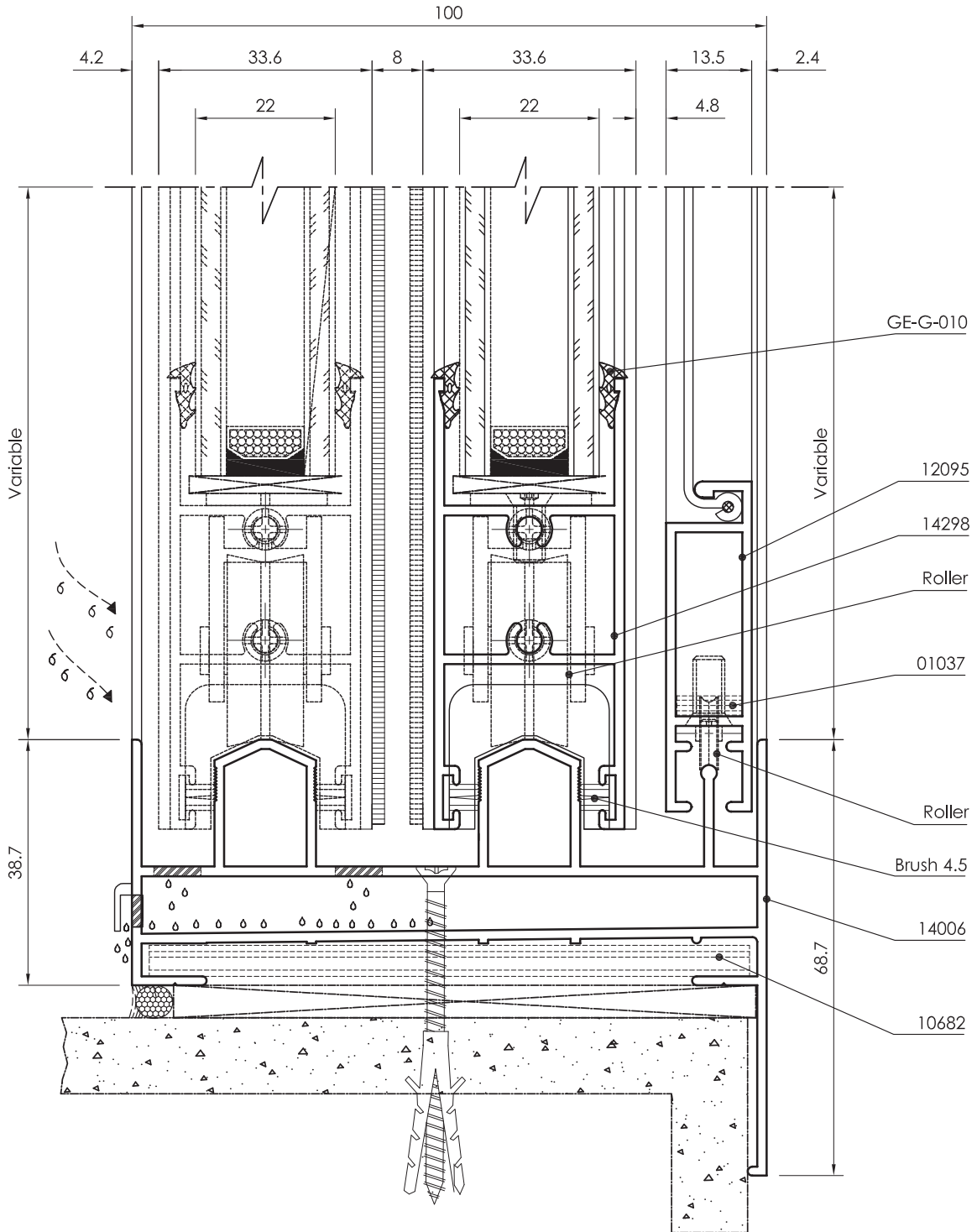


All dimensions in mm
Visible area_-----

Sliding Window / Door Series 100

Detail - E

Insulated Glass unit with Thickness 22mm

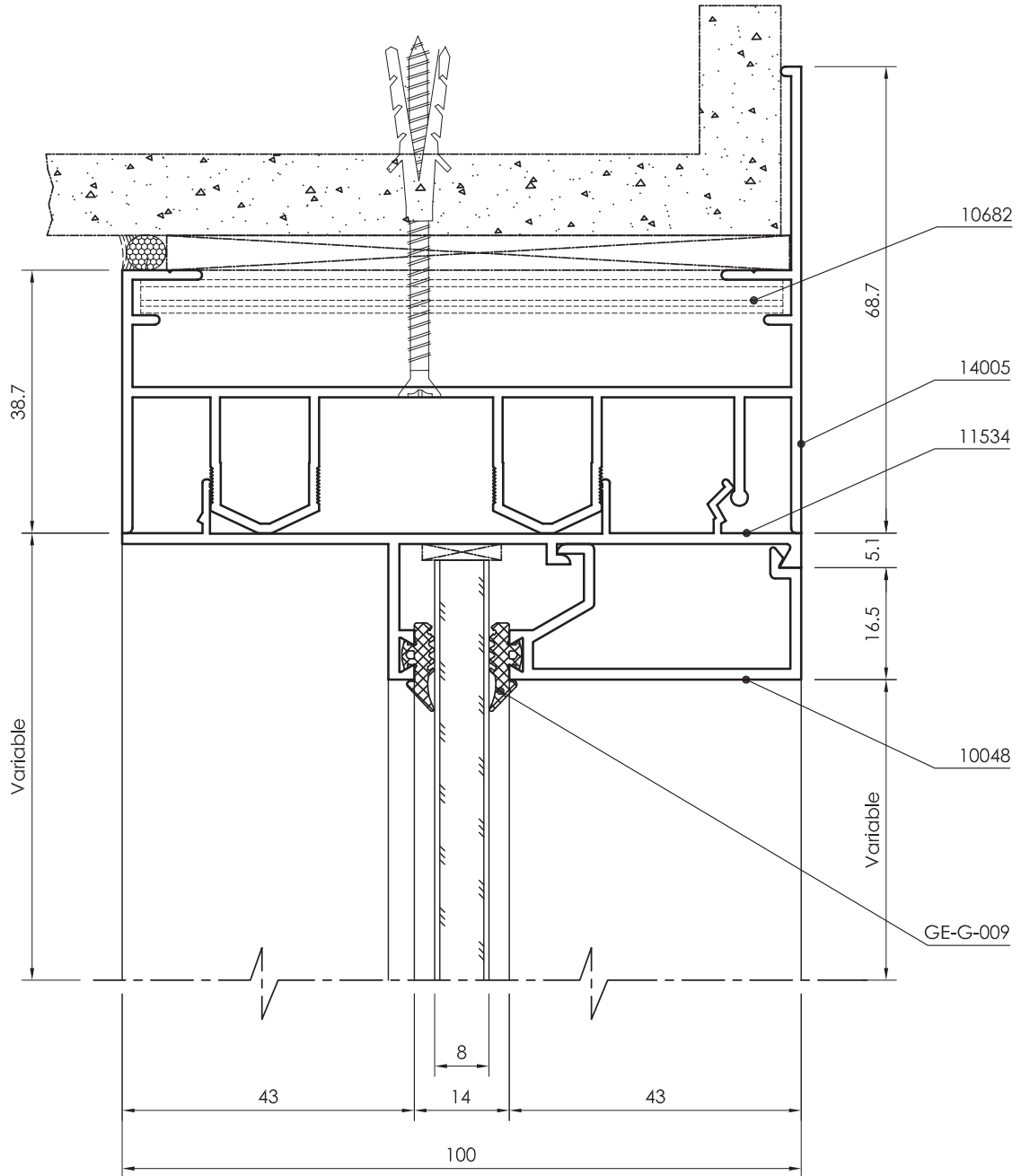


All dimensions in mm
 ----- Visible area

Sliding Window / Door Series 100

Detail - J

Single Glazed unit with Thickness 6 to 8mm

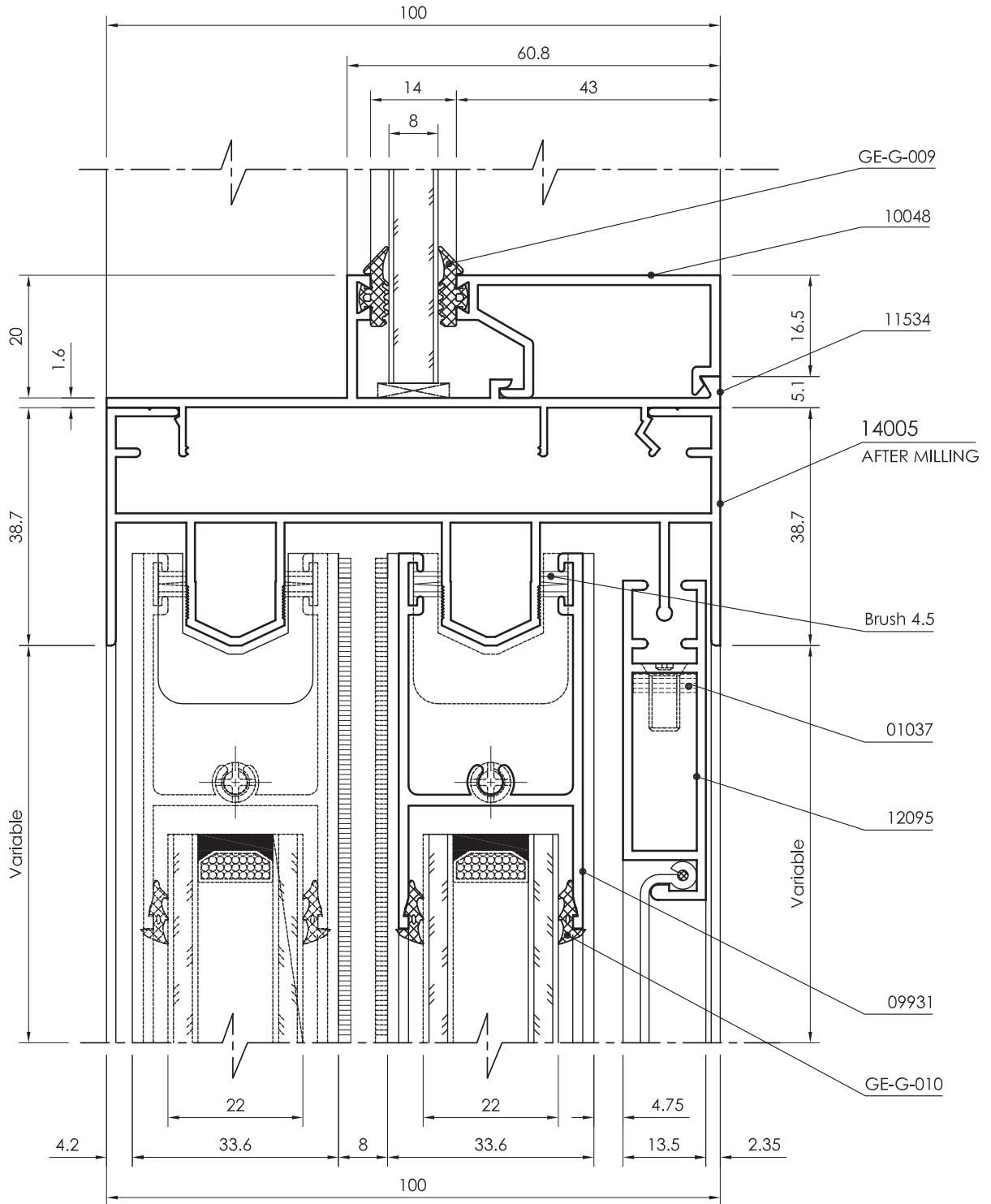


All dimensions in mm
Visible area_-----

Sliding Window / Door Series 100

Detail - K

Insulated Glass unit
with Thickness 22mm

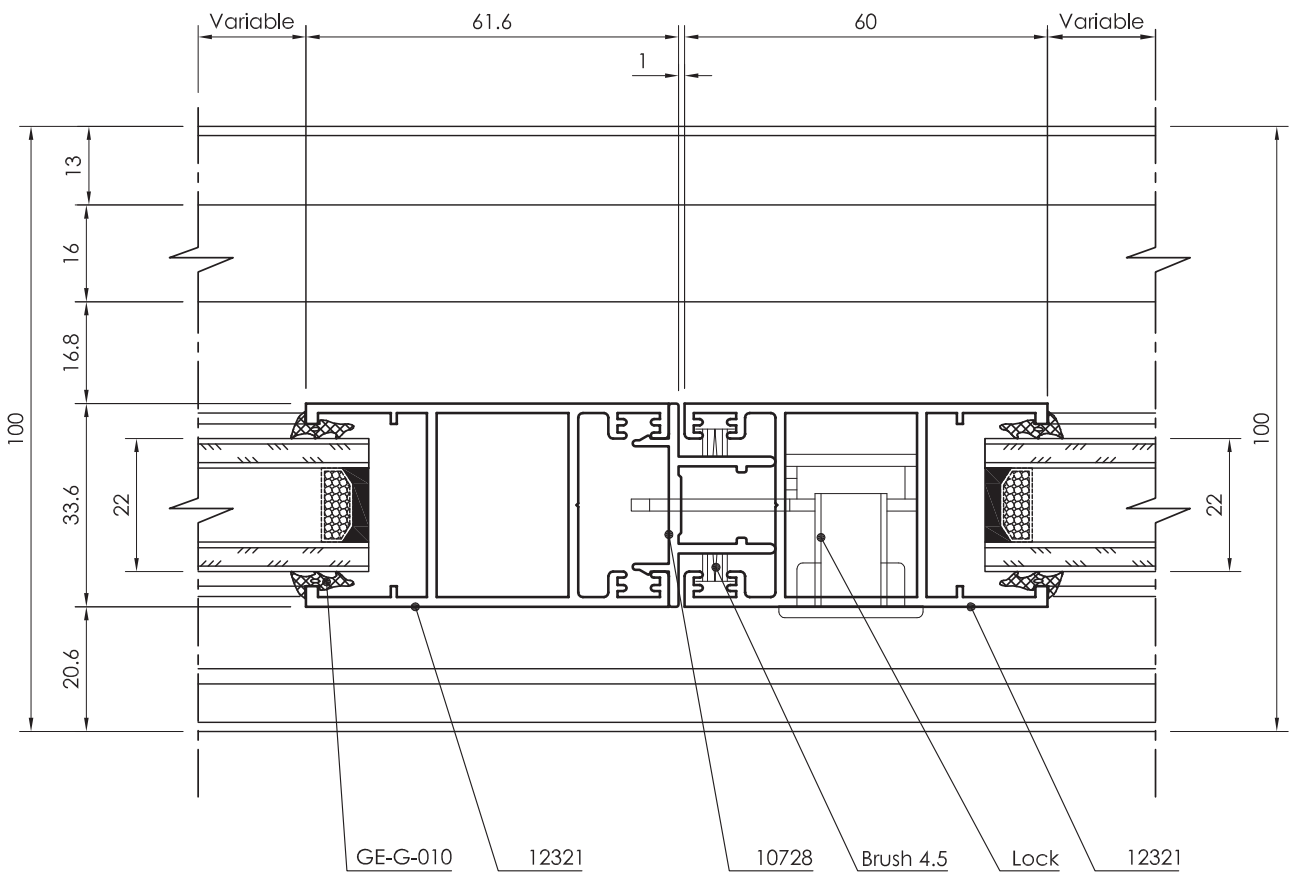


All dimensions in mm
----- Visible area

Sliding Window / Door Series 100

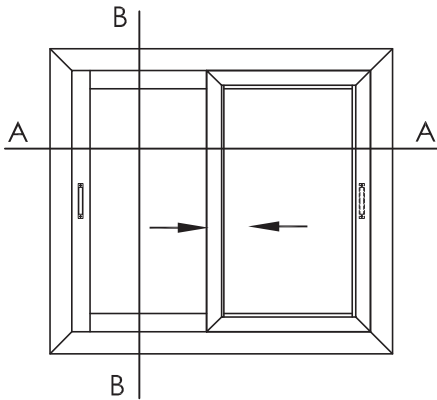
Detail - L

Insulated Glass unit
with Thickness 22mm



All dimensions in mm
Visible area_-----

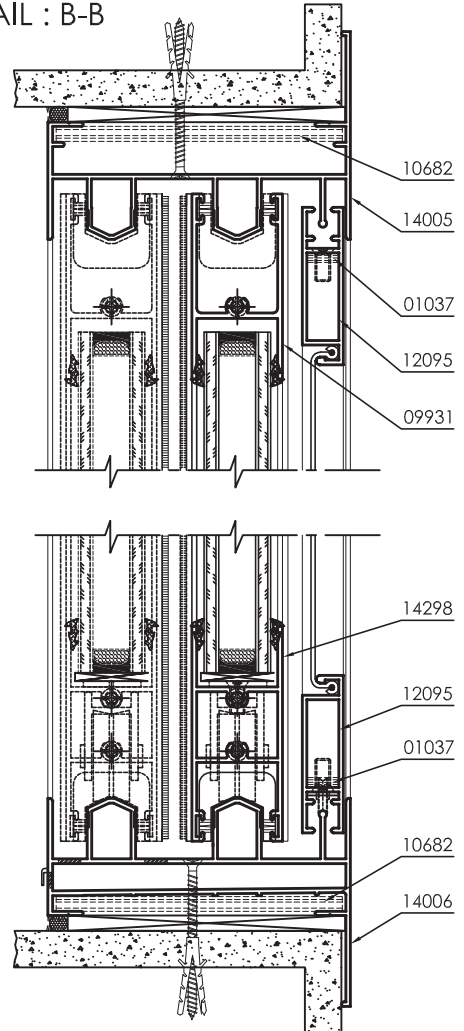
Insulated Glass unit
with Thickness 22mm



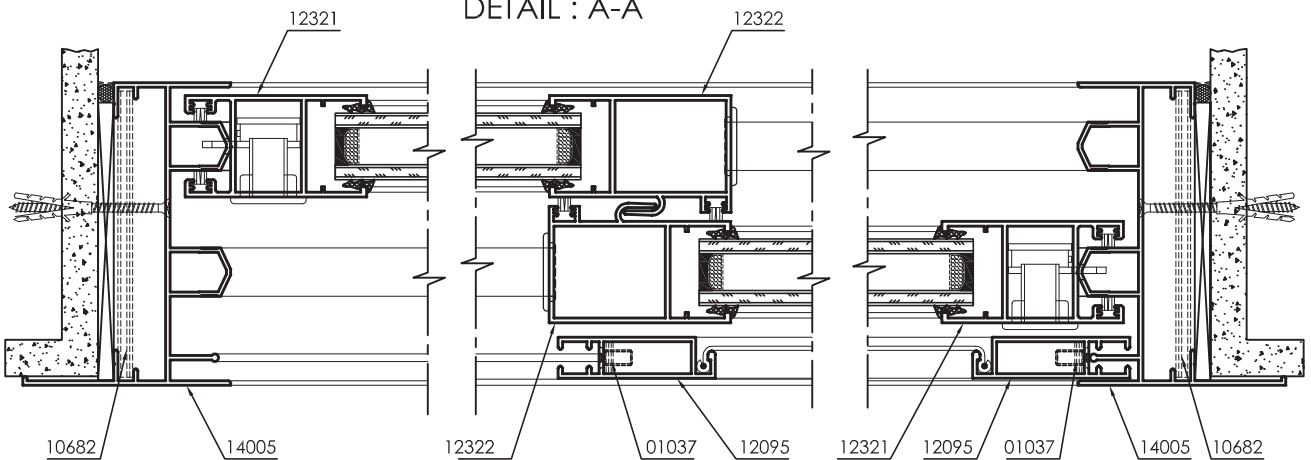
2 - SASH WINDOW

PROFILES (Double Glazed)		
Description	Shape	Section No.
Bottom Frame		14006
Top /Side Frame		14005
Top Sash		09931
Bottom Sash		14298
Side Sash		12321
Interlock		12322
Fly screen		12095
Corner Cleat - 35 x 3		01037
Corner Cleat		10682

DETAIL : B-B

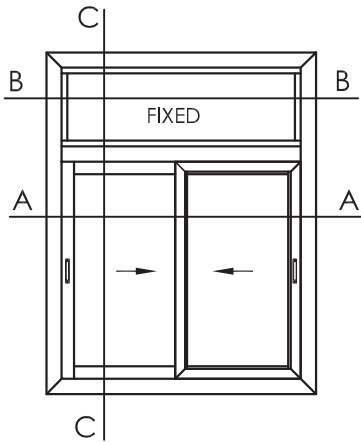


DETAIL : A-A



All dimensions in mm
----- Visible area

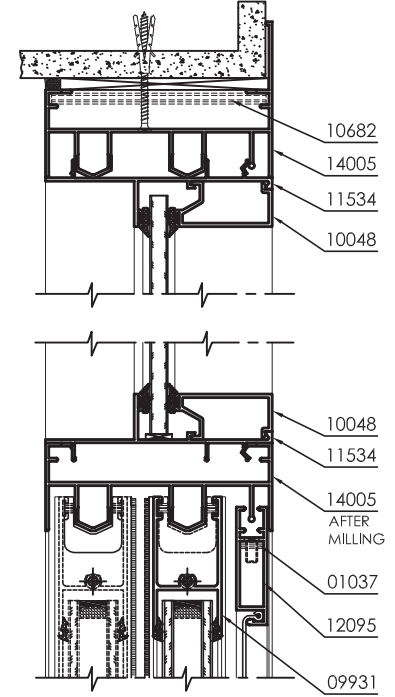
Insulated Glass unit
with Thickness 22mm



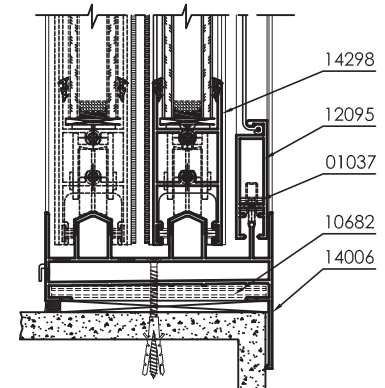
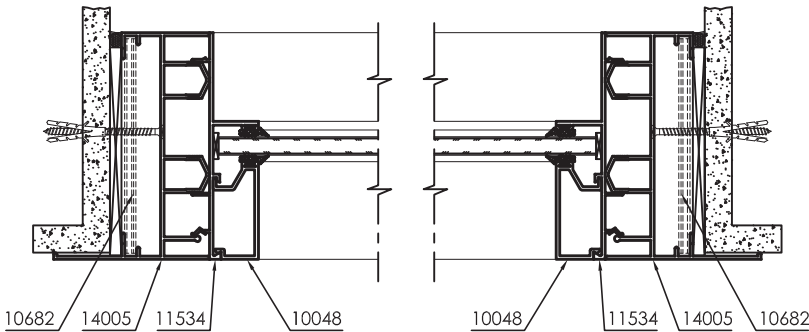
2 - SASH WINDOW WITH FIXED

PROFILES (Double Glazed)		
Description	Shape	Section No.
Bottom Frame		14006
Top /Side Frame		14005
Top Sash		09931
Bottom Sash		14298
Side Sash		12321
Interlock		12322
Fly screen		12095
Fix Adaptor		11534
Glazing Bead (for single glass)		10048
Corner Cleat - 35 x 3		01037
Corner Cleat		10682

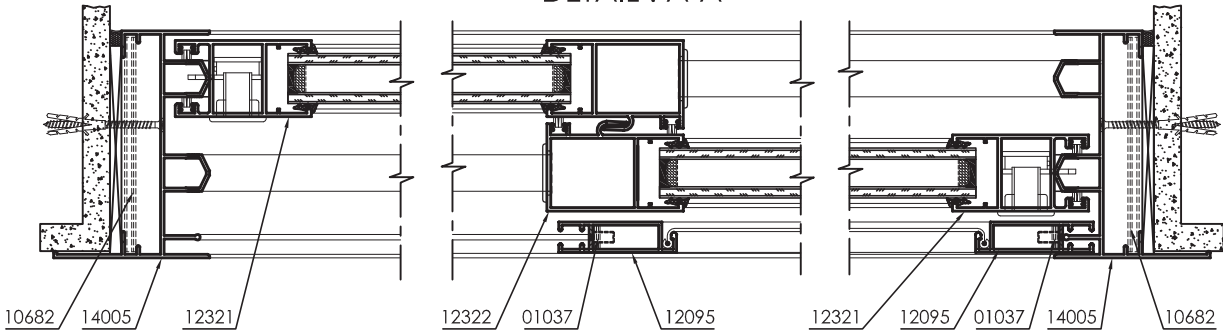
DETAIL : C-C



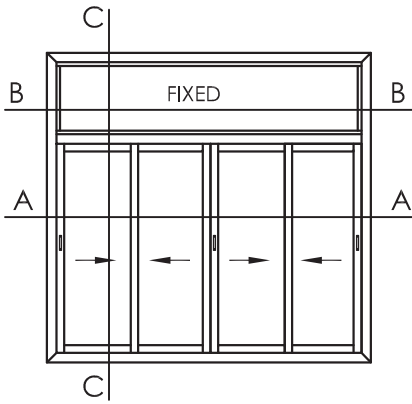
DETAIL : B-B



DETAIL : A-A



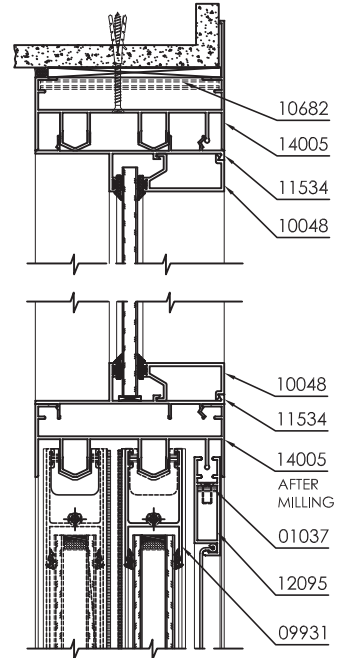
Insulated Glass unit with Thickness 22mm



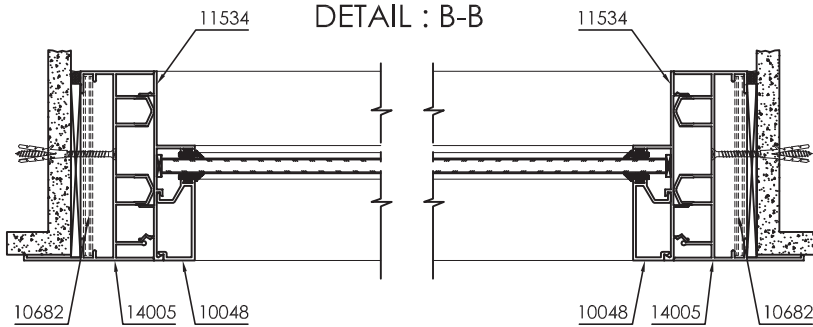
4 - SASH WINDOW WITH FIXED

PROFILES (Double Glazed)		
Description	Shape	Section No.
Bottom Frame		14006
Top /Side Frame		14005
Top Sash		09931
Bottom Sash		14298
Side Sash		12321
Interlock		12322
Fly screen		12095
4-Vents mid adaptor		10728
Fix Adaptor		11534
Glazing Bead (for Single glass)		10048
Corner Cleat - 35 x 3		01037
Corner Cleat		10682

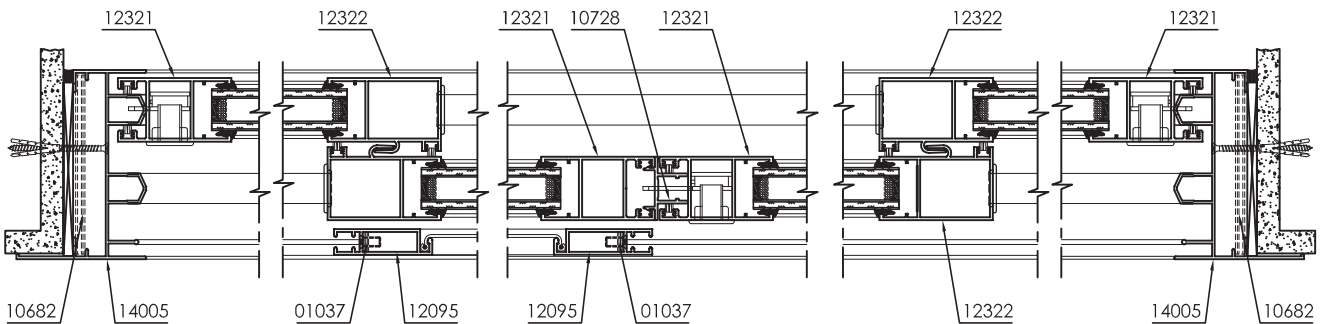
DETAIL : C-C



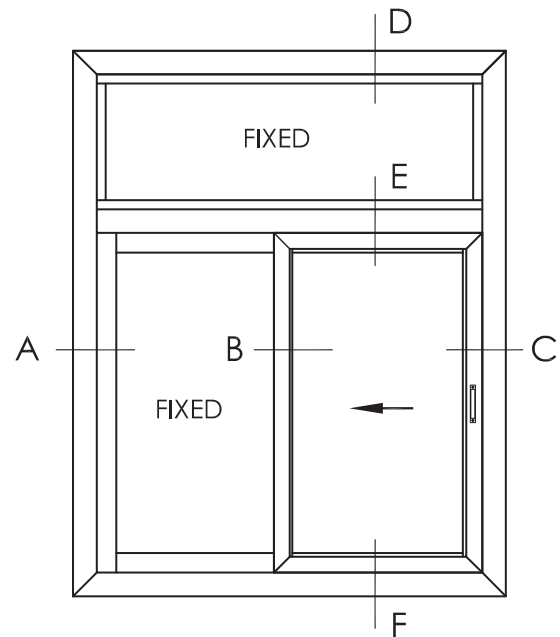
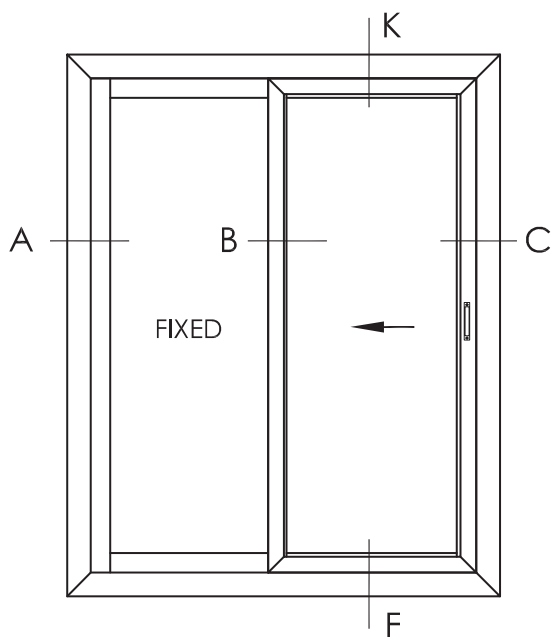
DETAIL : B-B



DETAIL : A-A



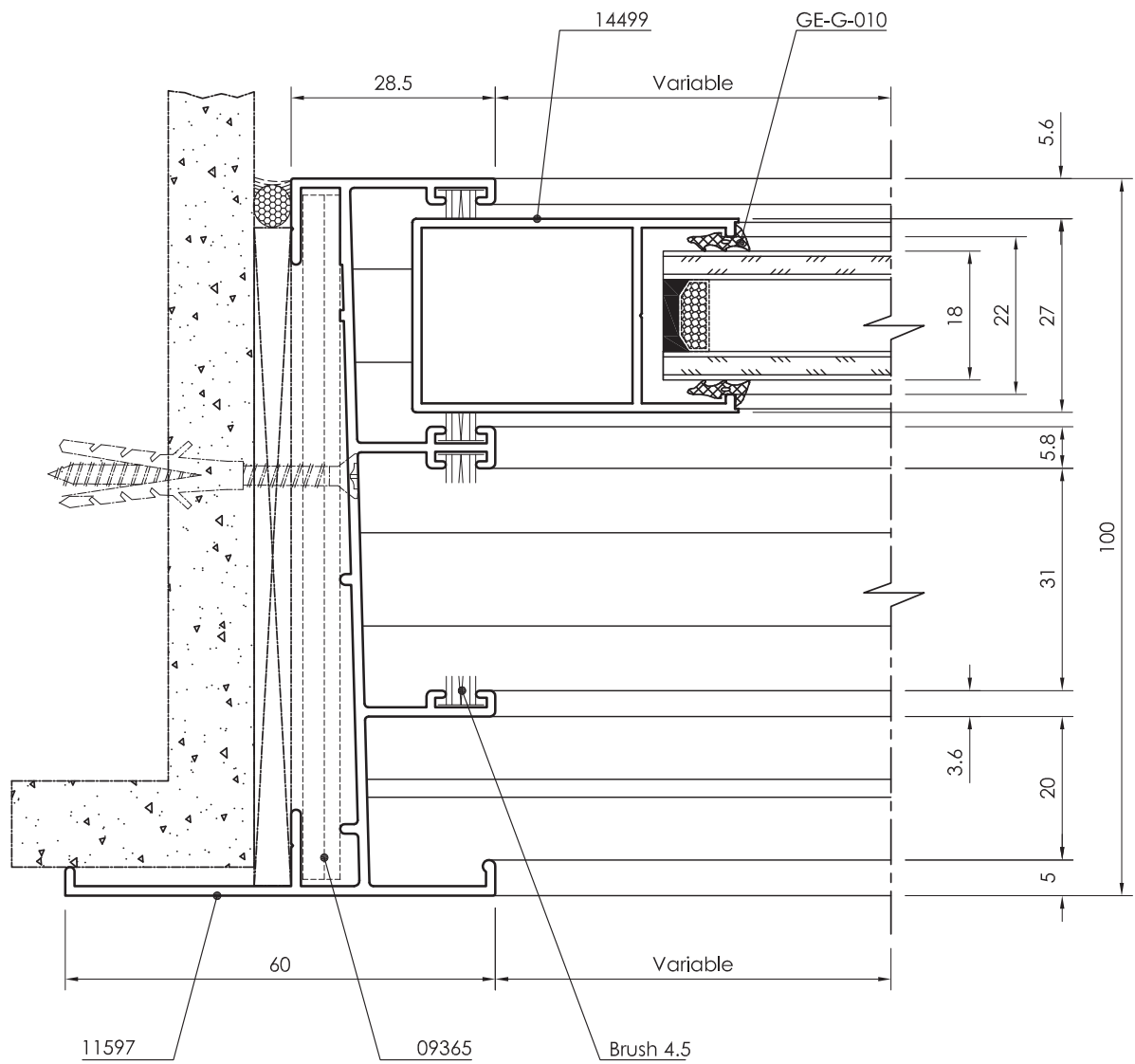
Sliding Window / Door Series 100
Inside Flyscreen With Architrave



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

Sliding Window / Door Series 100
Detail - A

Insulated Glass unit
with Thickness 18mm

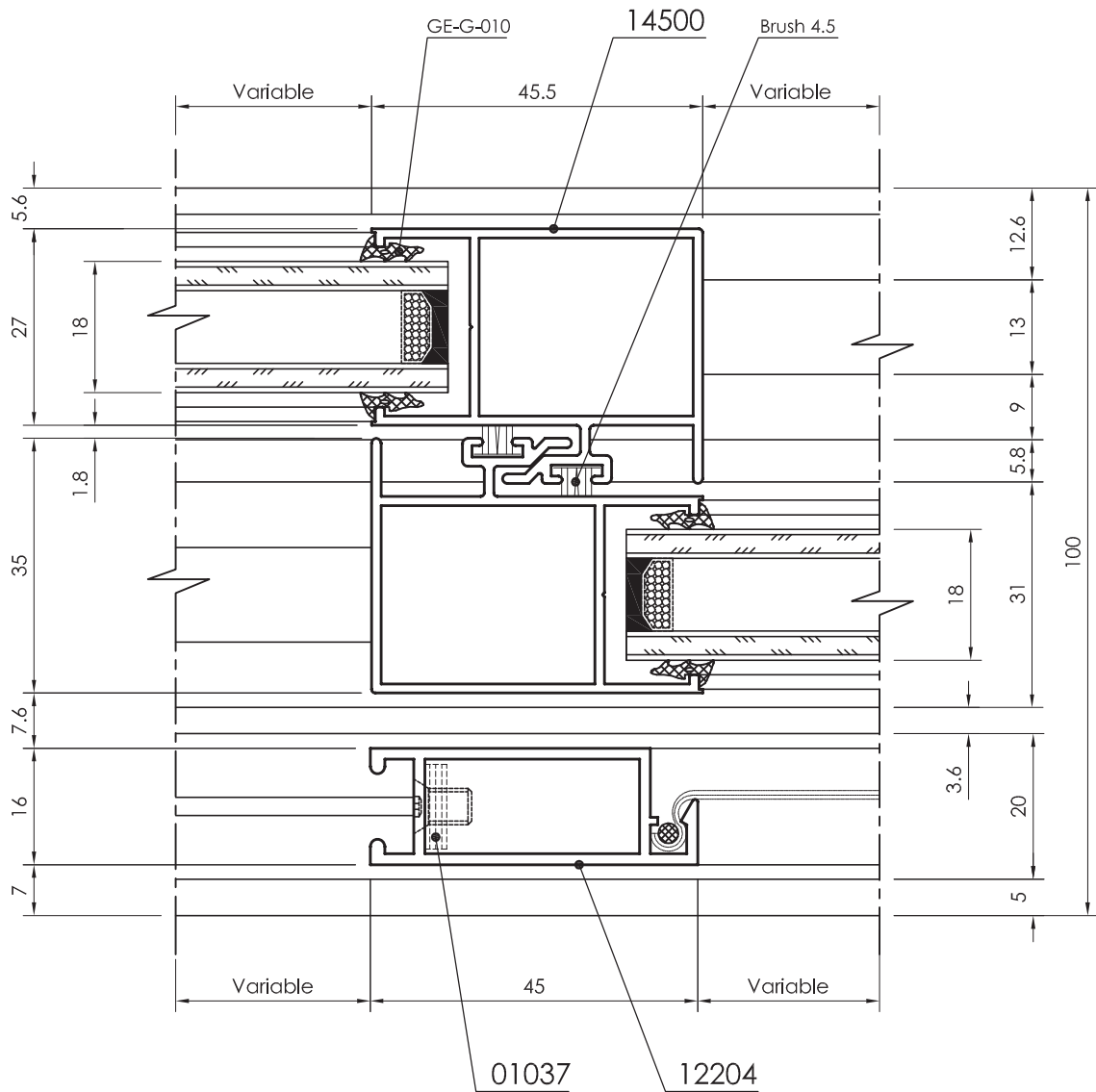


All dimensions in mm
----- Visible area

Sliding Window / Door Series 100

Detail - B

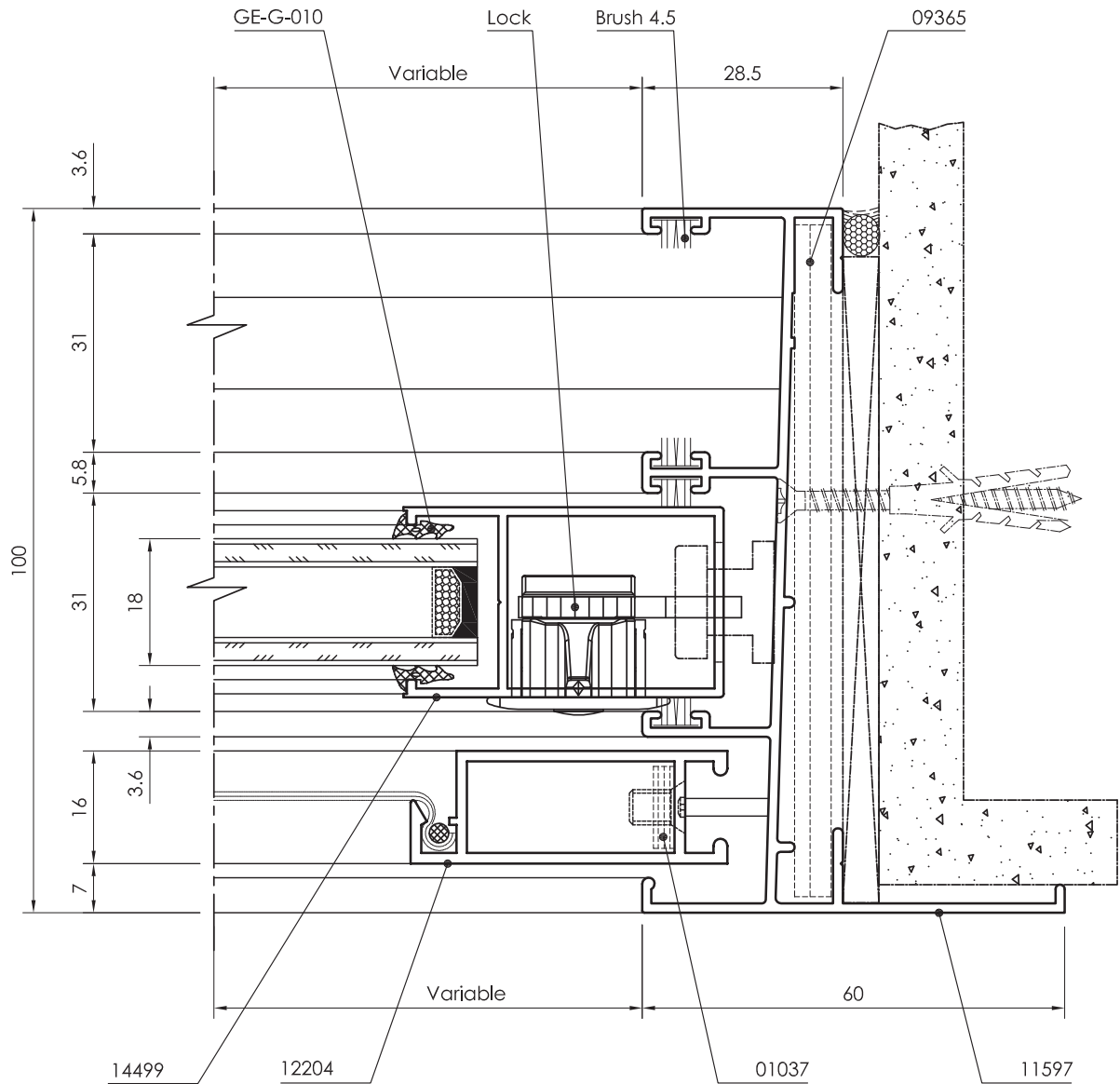
Insulated Glass unit
with Thickness 18mm



All dimensions in mm
Visible area_____

Sliding Window / Door Series 100
Detail - C

Insulated Glass unit
with Thickness 18mm

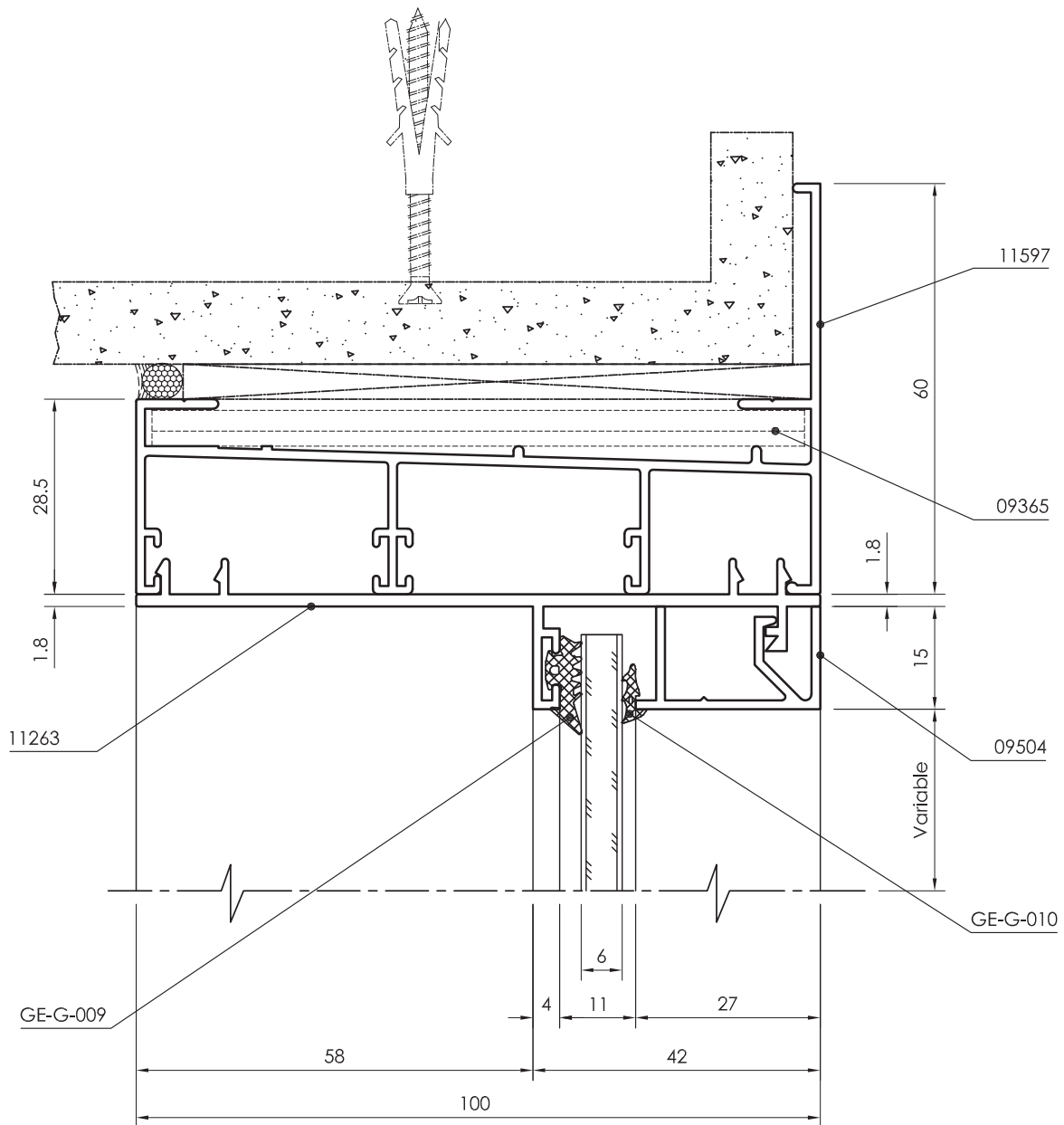


All dimensions in mm
----- Visible area

Sliding Window / Door Series 100

Detail - D

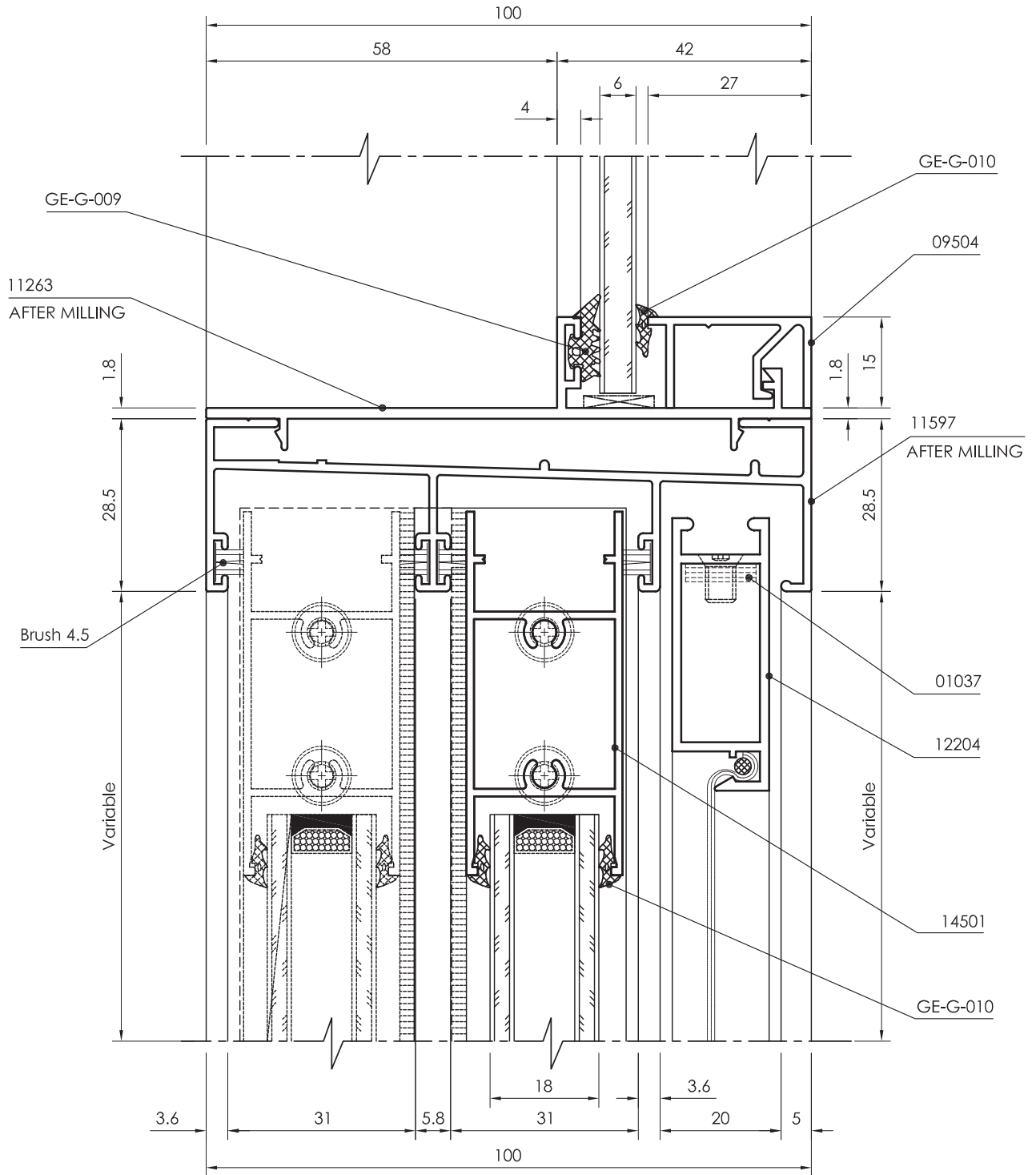
Single Glass unit with Thickness 6 to 8mm



All dimensions in mm
Visible area_-----

Sliding Window / Door Series 100
Detail - E

Insulated Glass unit
with Thickness 18mm
& Fixed 6 to 8mm

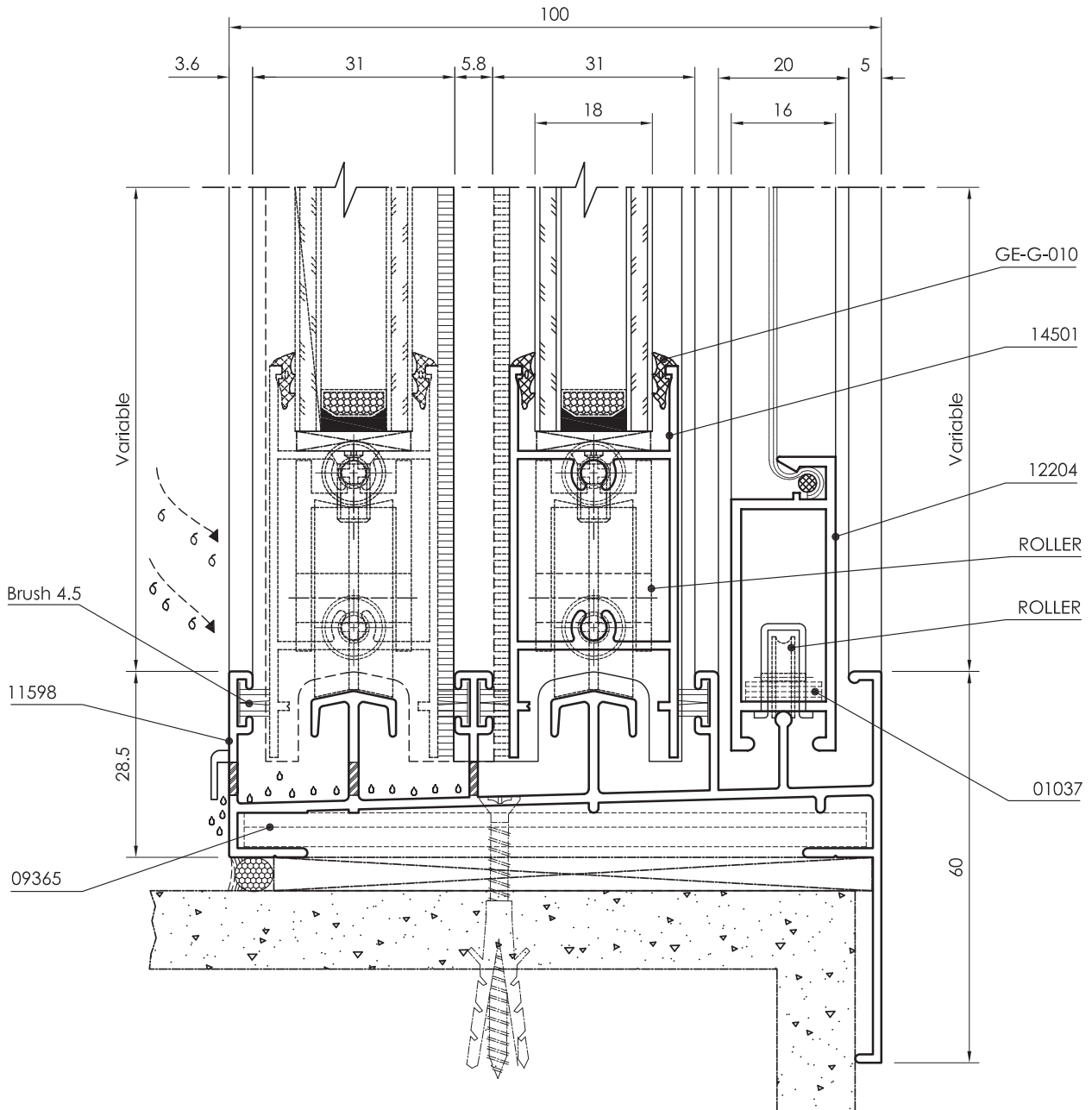


All dimensions in mm
----- Visible area

Sliding Window / Door Series 100

Detail - F

Insulated Glass unit
with Thickness 18mm

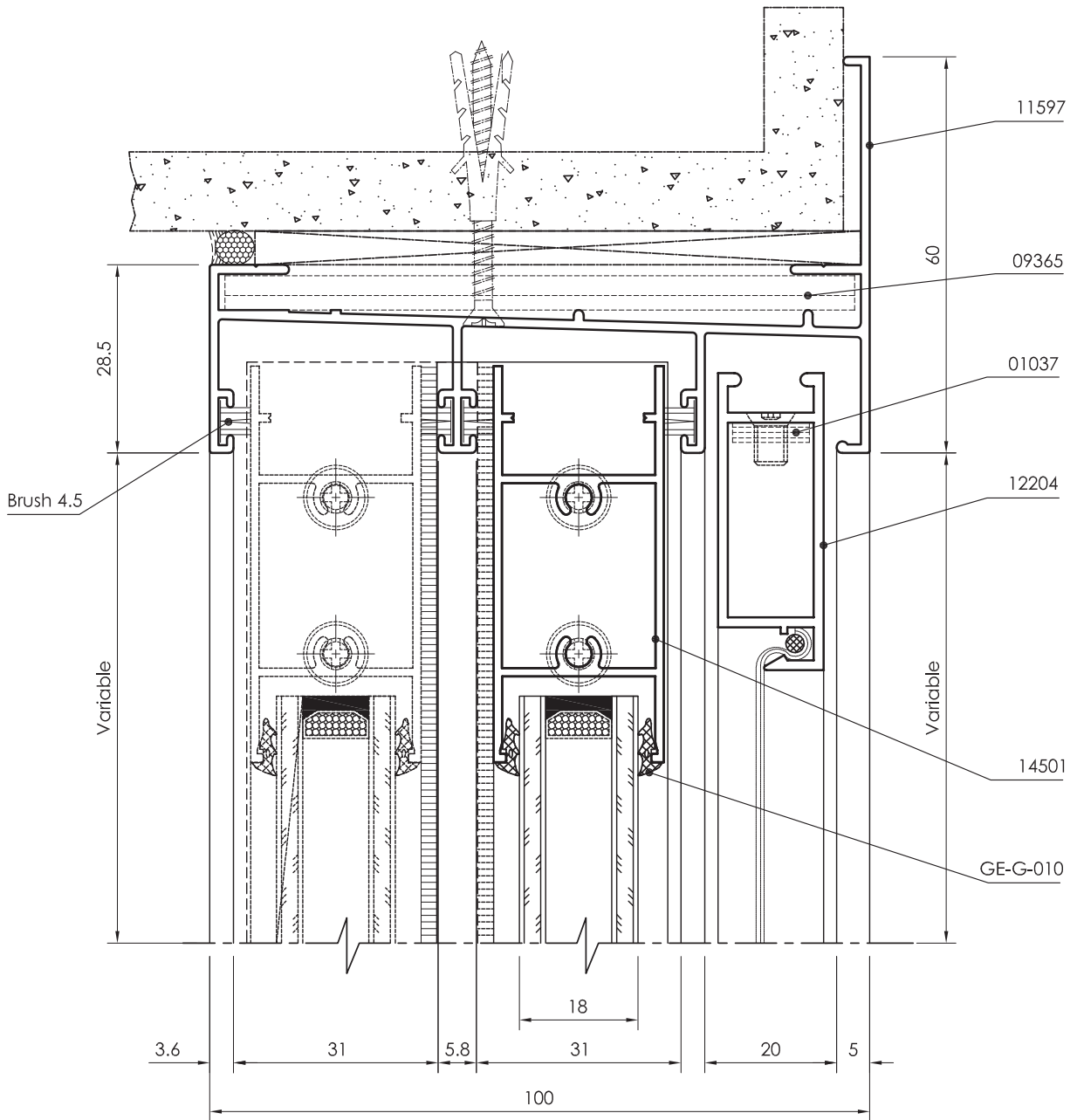


All dimensions in mm
Visible area_-----

Sliding Window / Door Series 100

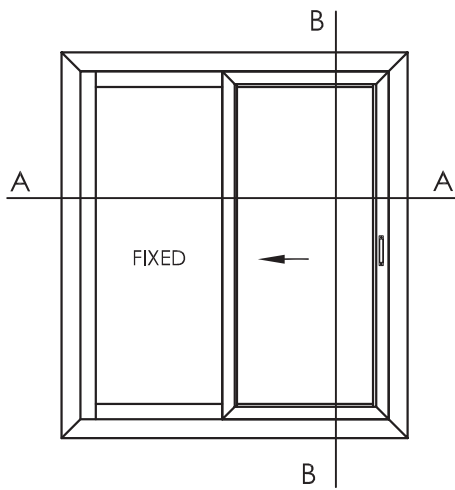
Detail - K

Insulated Glass unit
with Thickness 18mm



All dimensions in mm
----- Visible area

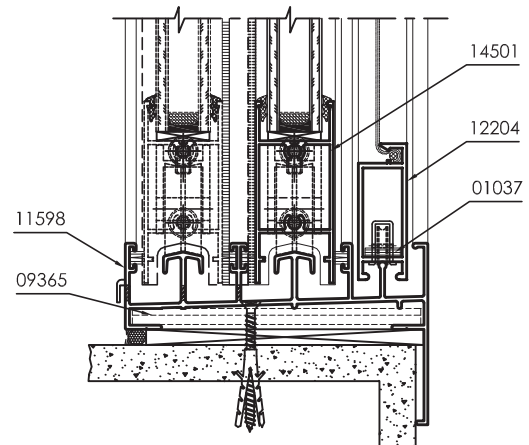
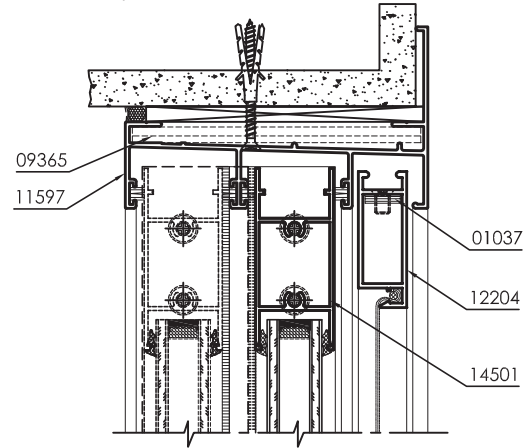
Insulated Glass unit
with Thickness 18mm



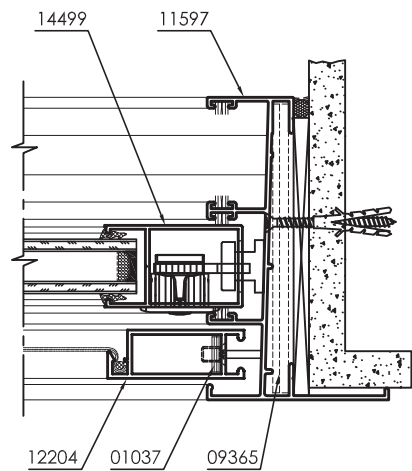
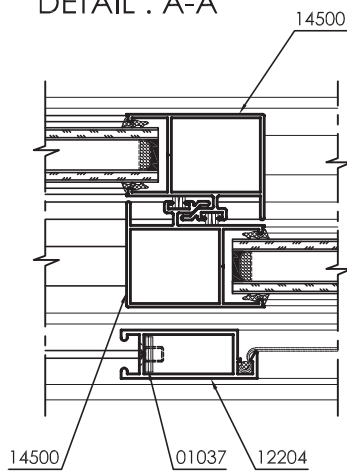
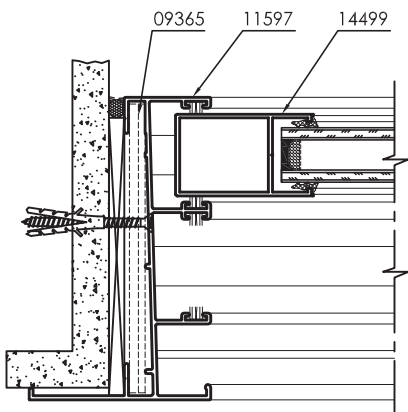
2 - SASH WINDOW

PROFILES (Double Glazed)		
Description	Shape	Section No.
Bottom Frame		11598
Top /Side Frame		11597
Top / Bottom Sash		14501
Side Sash		14499
Interlock		14500
Fly screen		12204
Corner Cleat - 35 x 3		01037
Corner Cleat		09365

DETAIL : B-B

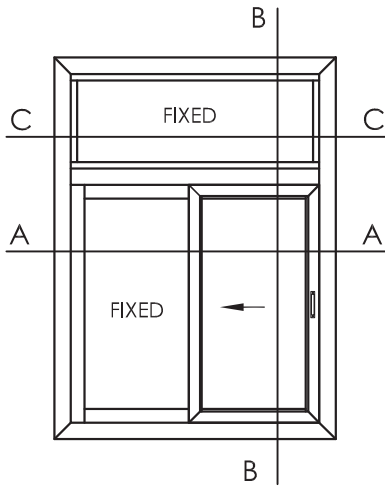


DETAIL : A-A



All dimensions in mm
Visible area_-----

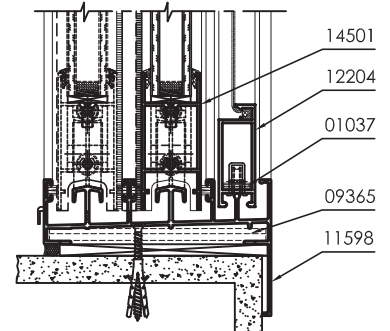
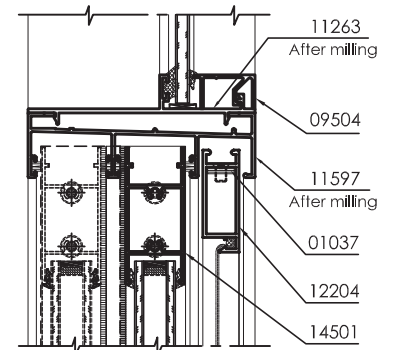
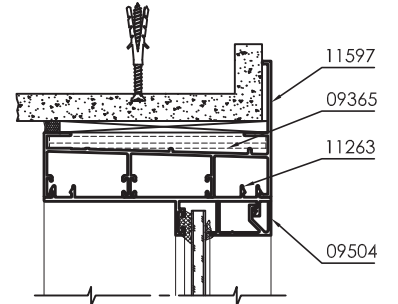
Insulated Glass unit
with Thickness 18mm
& Fixed 6 to 8mm



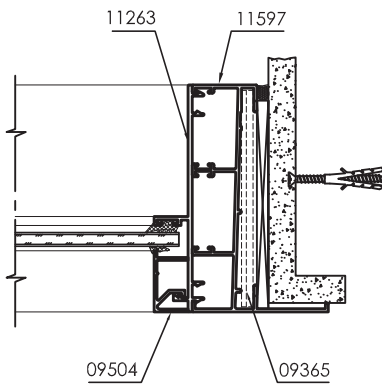
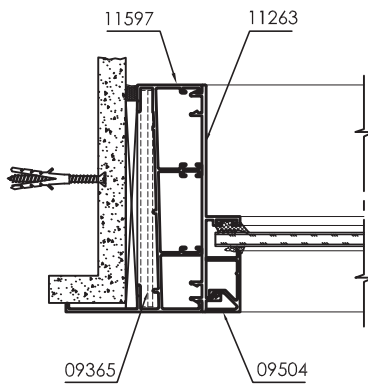
2 - SASH WINDOW WITH FIXED

PROFILES (Double Glazed)		
Description	Shape	Section No
Bottom Frame		11598
Top /Side Frame		11597
Top / Bottom Sash		14501
Side Sash		14499
Interlock		14500
Fly screen		12204
Fix Adaptor		11263
Glazing Bead (for Single glass)		09504
Corner Cleat - 35 x 3		01037
Corner Cleat		09365

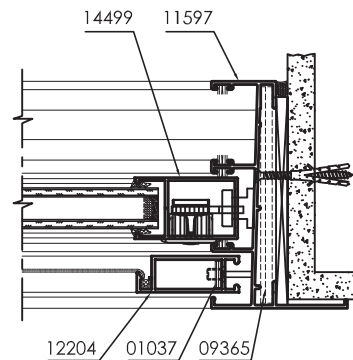
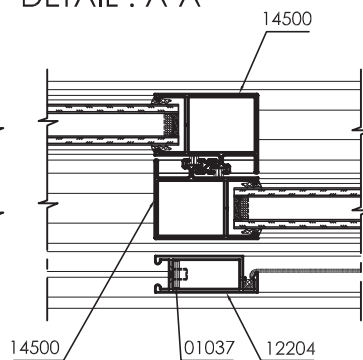
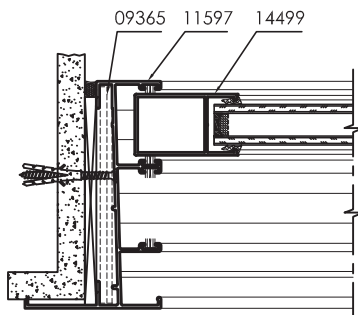
DETAIL : B-B



DETAIL : C-C

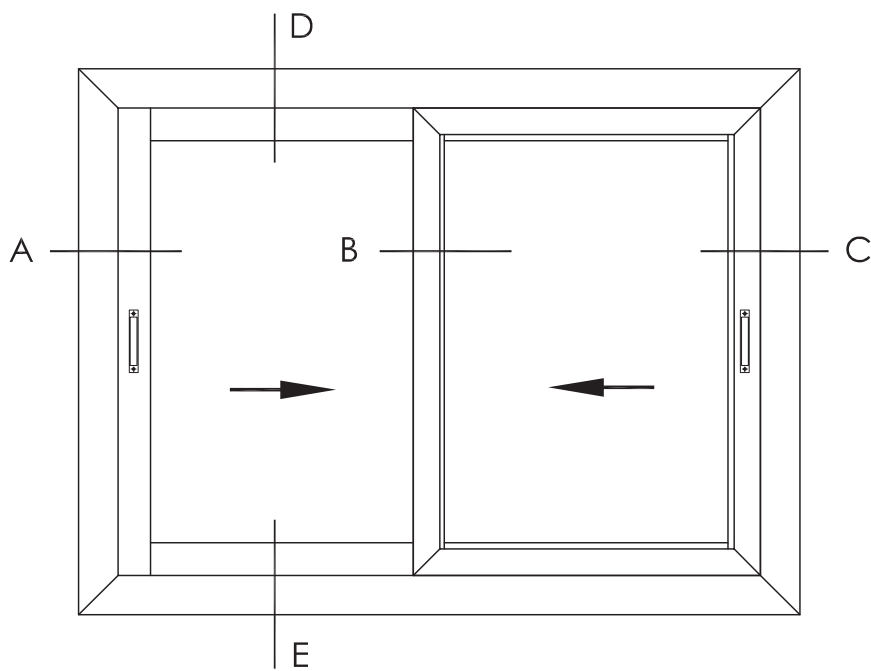


DETAIL : A-A



All dimensions in mm
----- Visible area

Sliding Window / Door Series 100
Inside Flyscreen With Architrave

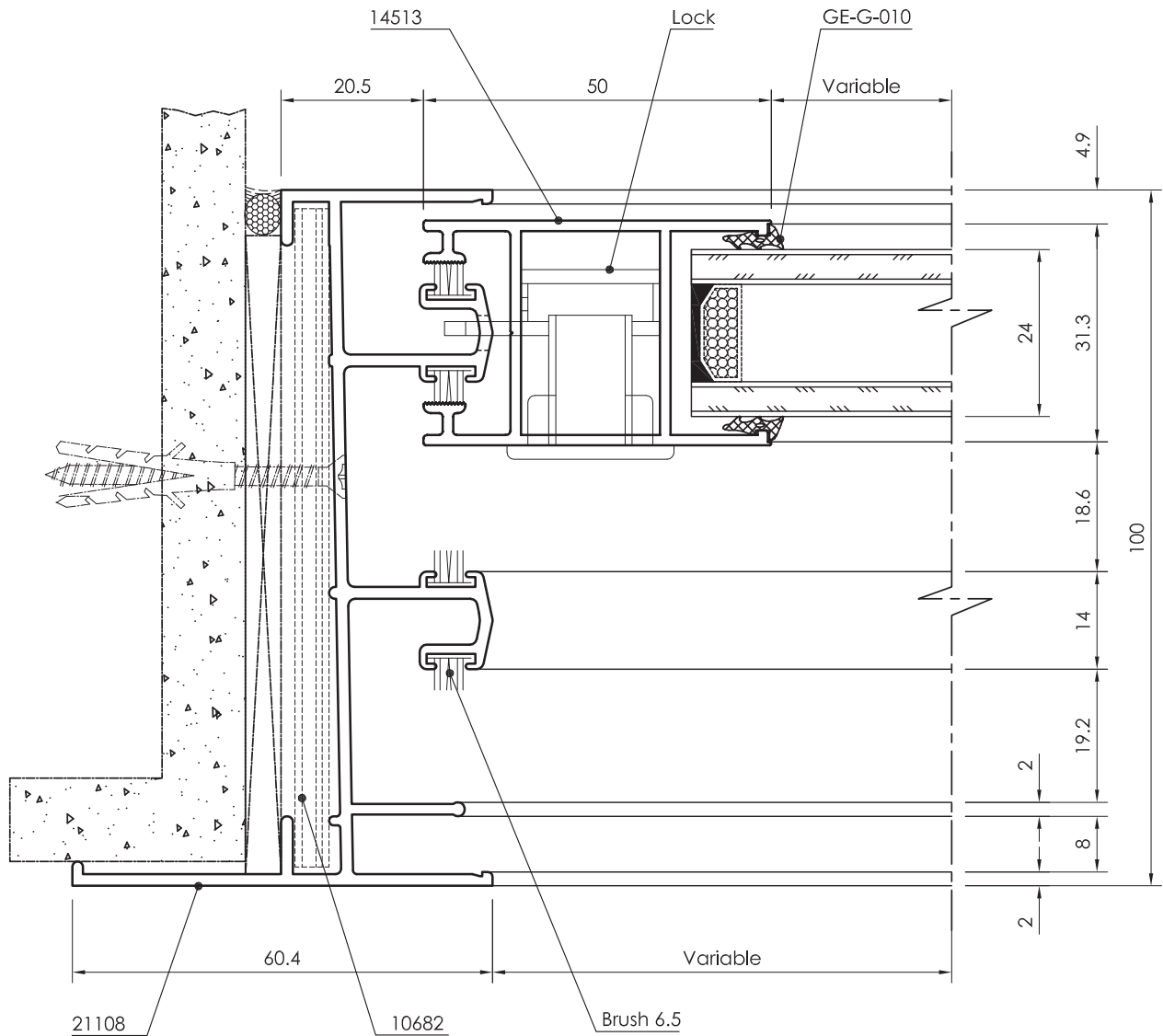


All dimensions in cross sections are shown in mm
Profile are not necessarily shown to scale

Sliding Window / Door Series 100

Detail - A

Insulated Glass unit
with Thickness 24mm

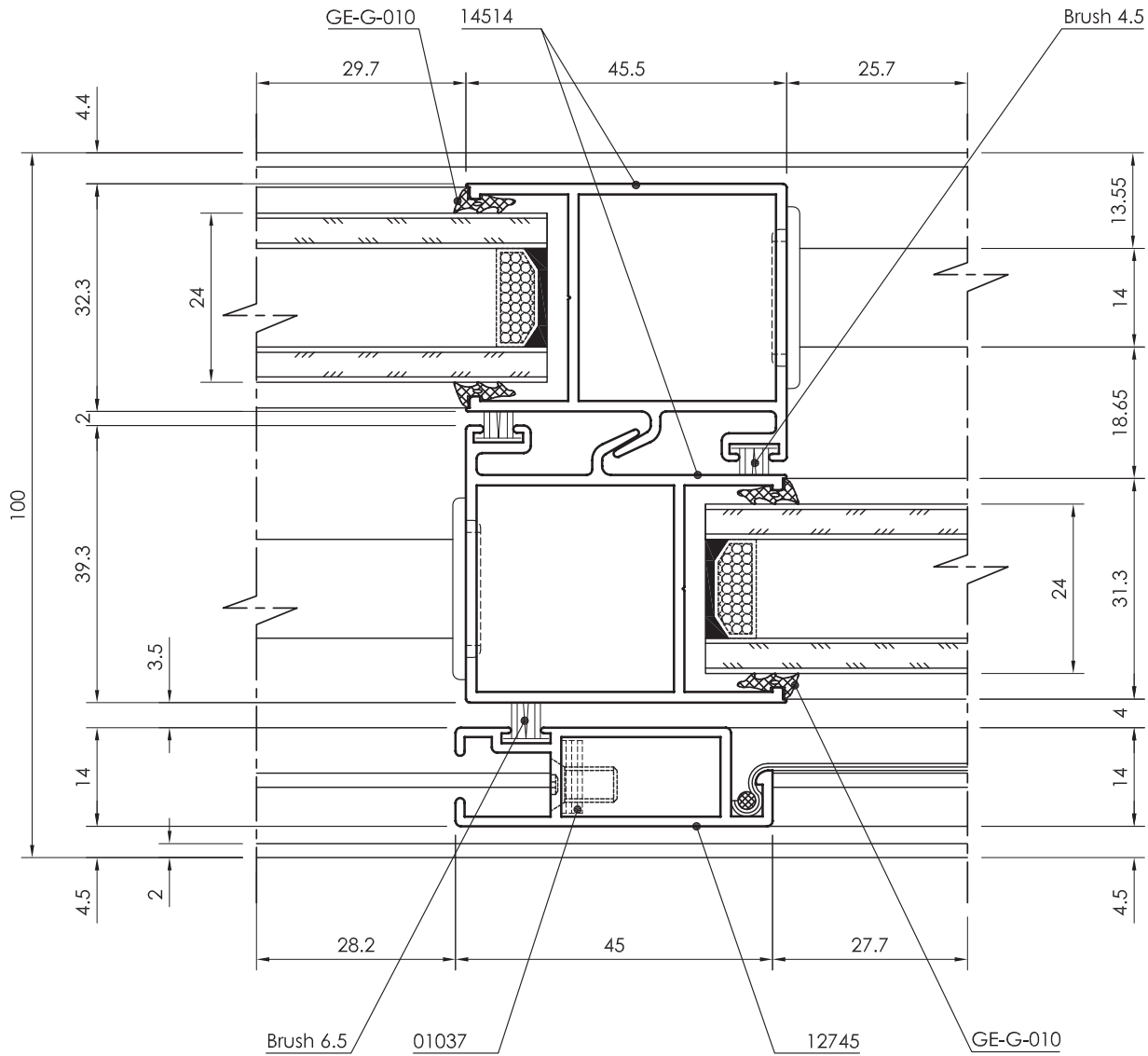


All dimensions in mm
----- Visible area

Sliding Window / Door Series 100

Detail - B

Insulated Glass unit
with Thickness 24mm

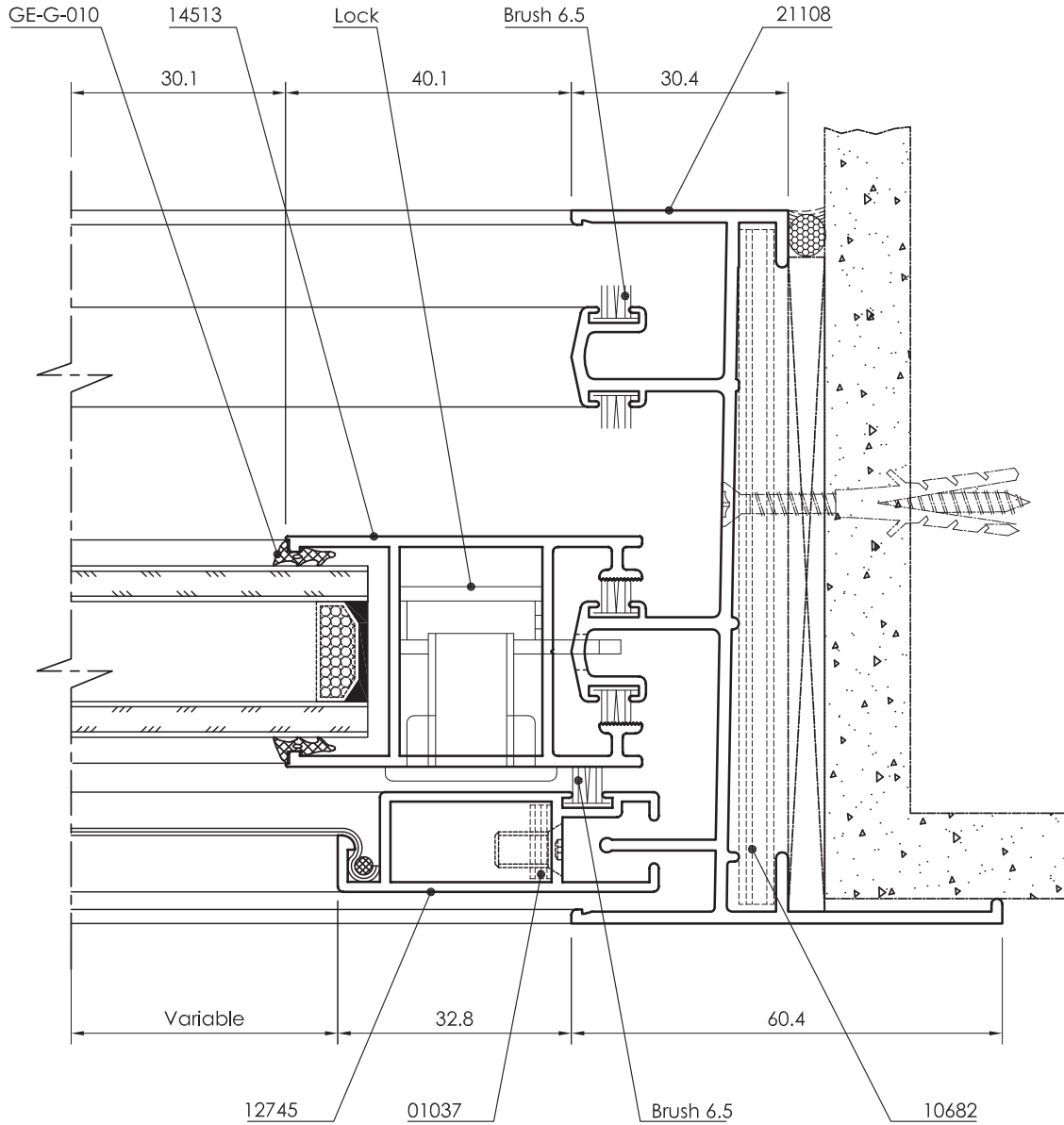


All dimensions in mm
Visible area_____

Sliding Window / Door Series 100

Detail - C

Insulated Glass unit
with Thickness 24mm

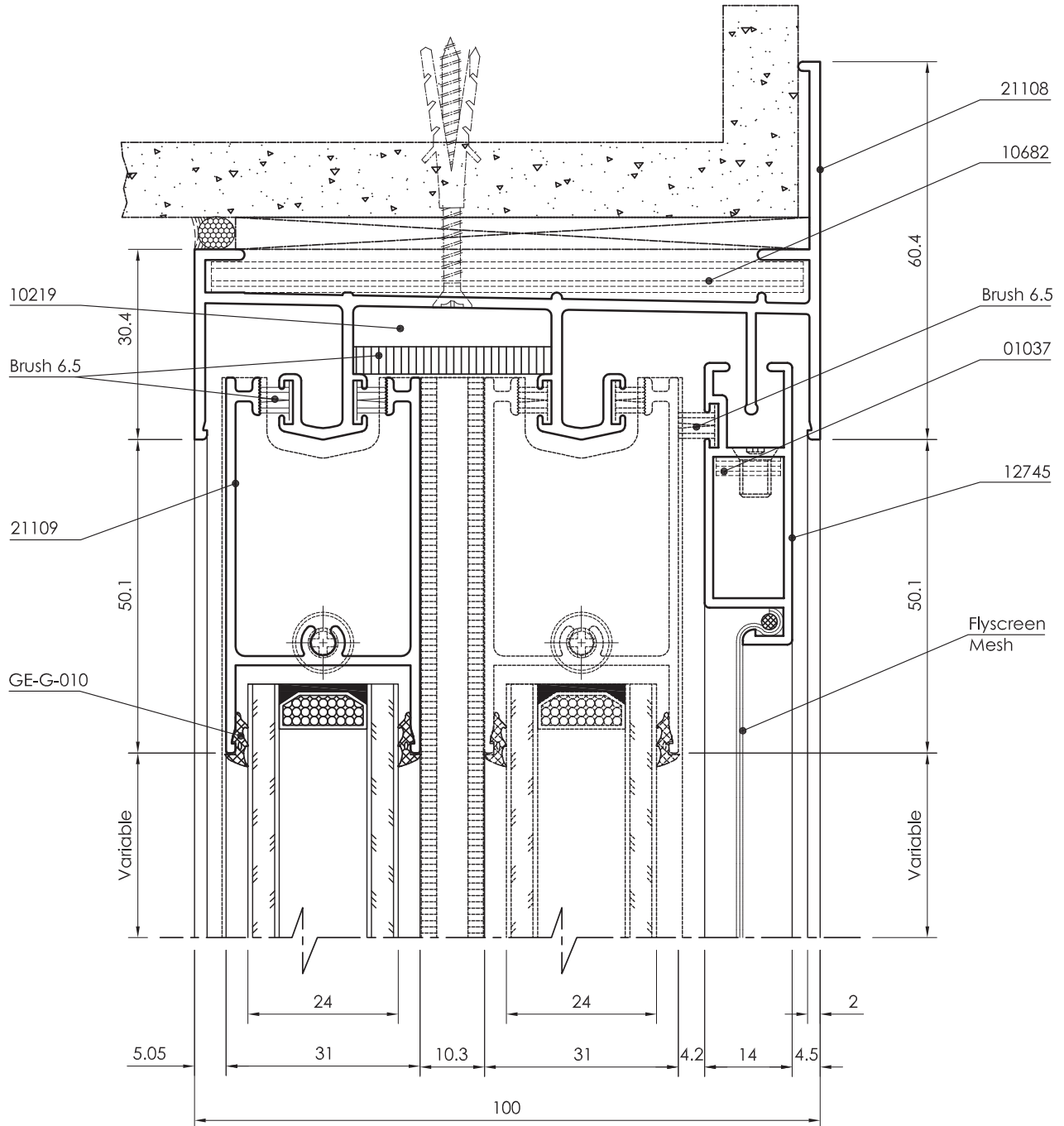


All dimensions in mm
----- Visible area

Sliding Window / Door Series 100

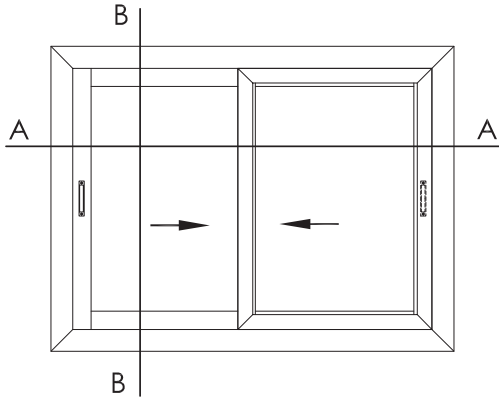
Detail - D

Insulated Glass unit
with Thickness 24mm



All dimensions in mm
Visible area_-----

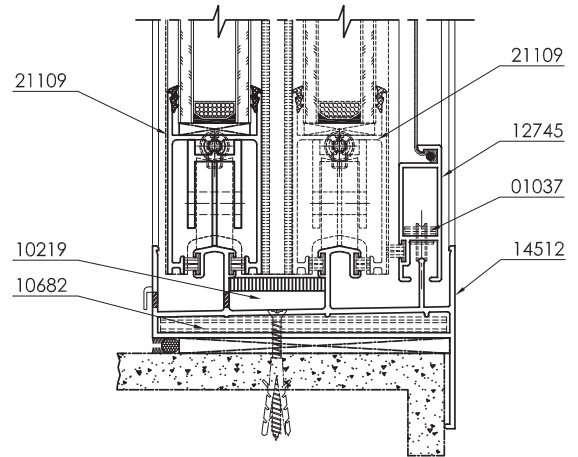
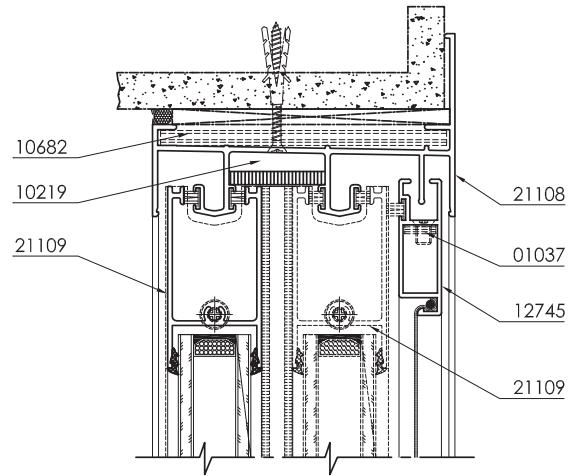
Insulated Glass unit
with Thickness 24mm



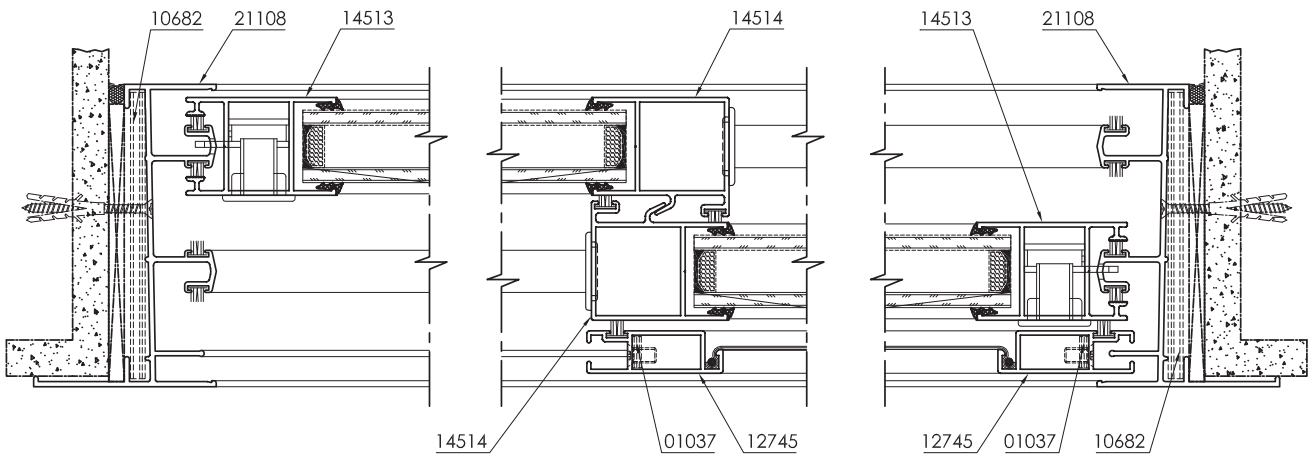
2 - SASH WINDOW

PROFILES (Double Glazed)		
Description	Shape	Section No.
Bottom Frame		14512
Top /Side Frame		21108
Top / Bottom Sash		21109
Side Sash		14513
Interlock		14514
Fly screen		12745
Dust Proof Profile		10219
Corner Cleat - 35 x 3		01037
Corner Cleat		10682

DETAIL : B-B

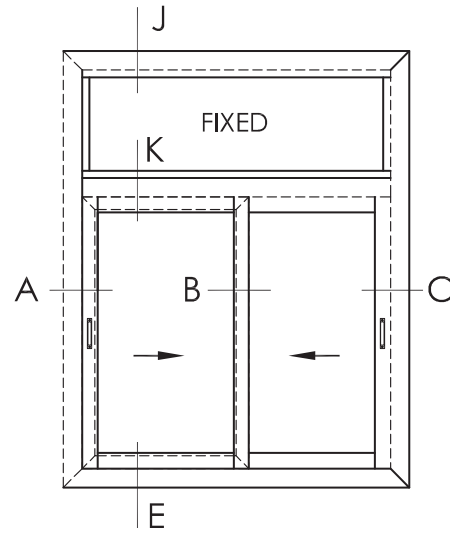
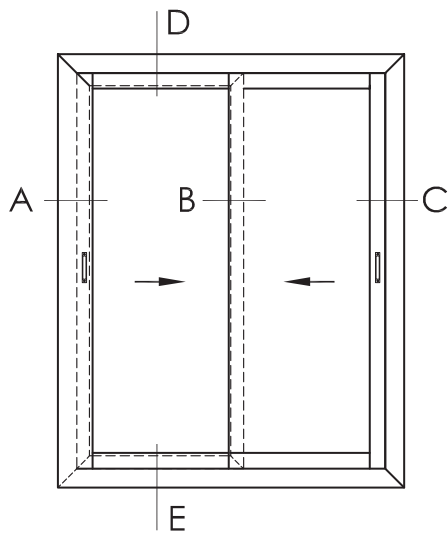


DETAIL : A-A



All dimensions in mm
Visible area_____

Sliding Window / Door Series 100
 Outside Flyscreen With Architrave

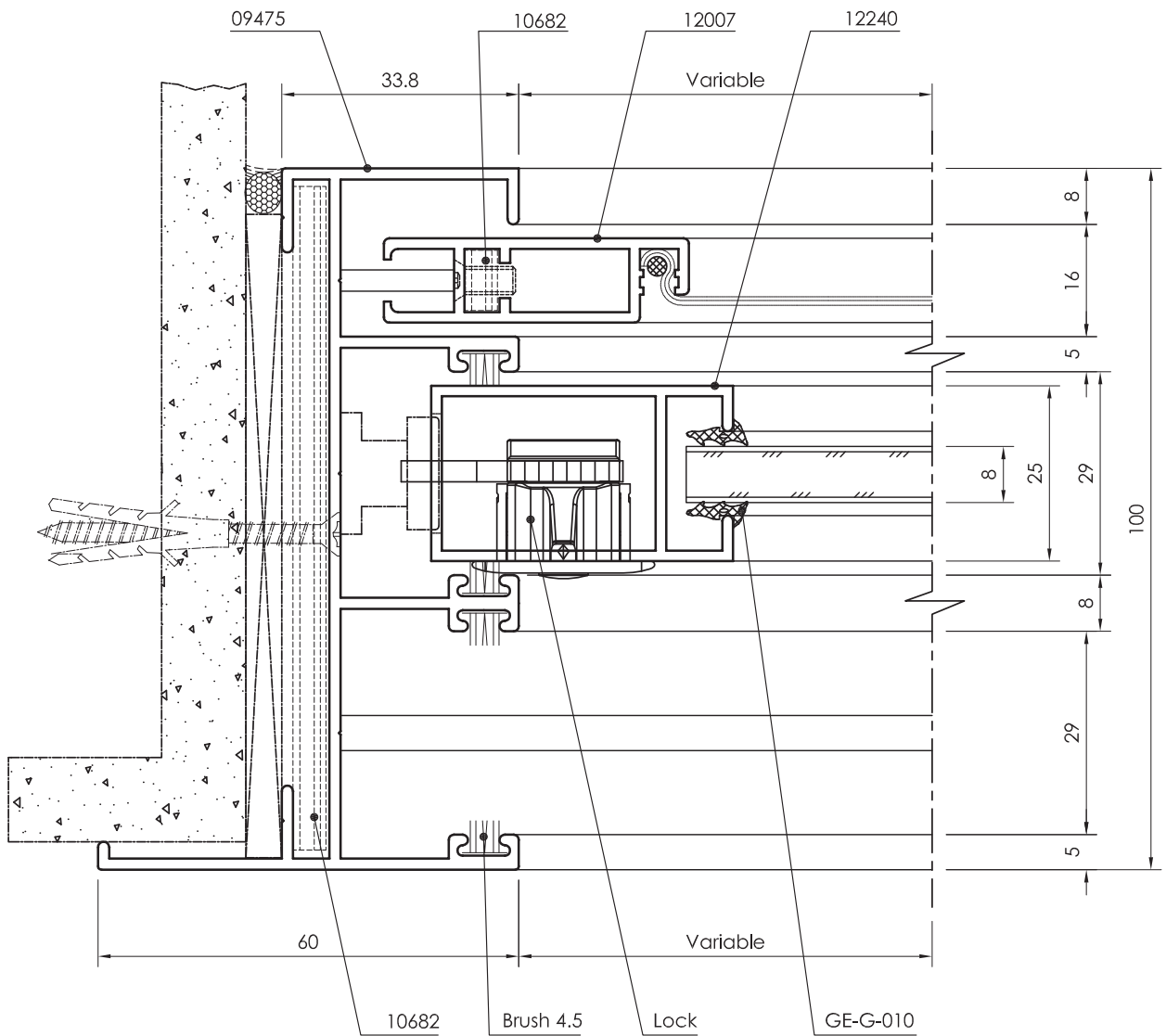


All dimensions in cross sections are shown in mm
 Profile are not necessarily shown to scale

Sash Window / Door Series 100

Detail - A

Single Glass unit with Thickness 6 - 8mm

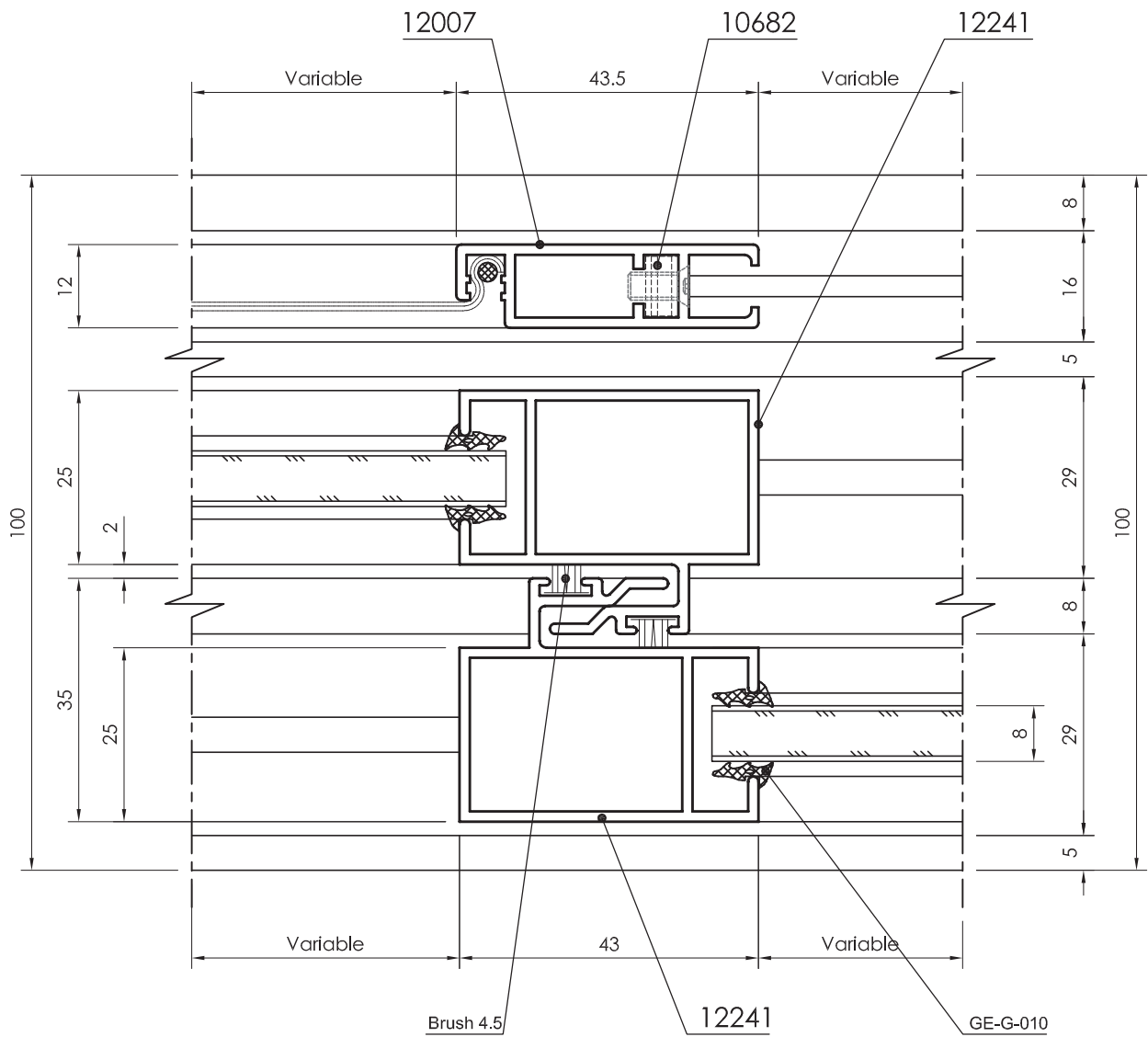


All dimensions in mm
Visible area_-----

Sash Window / Door Series 100

Detail - B

Single Glass unit with Thickness 6 - 8mm

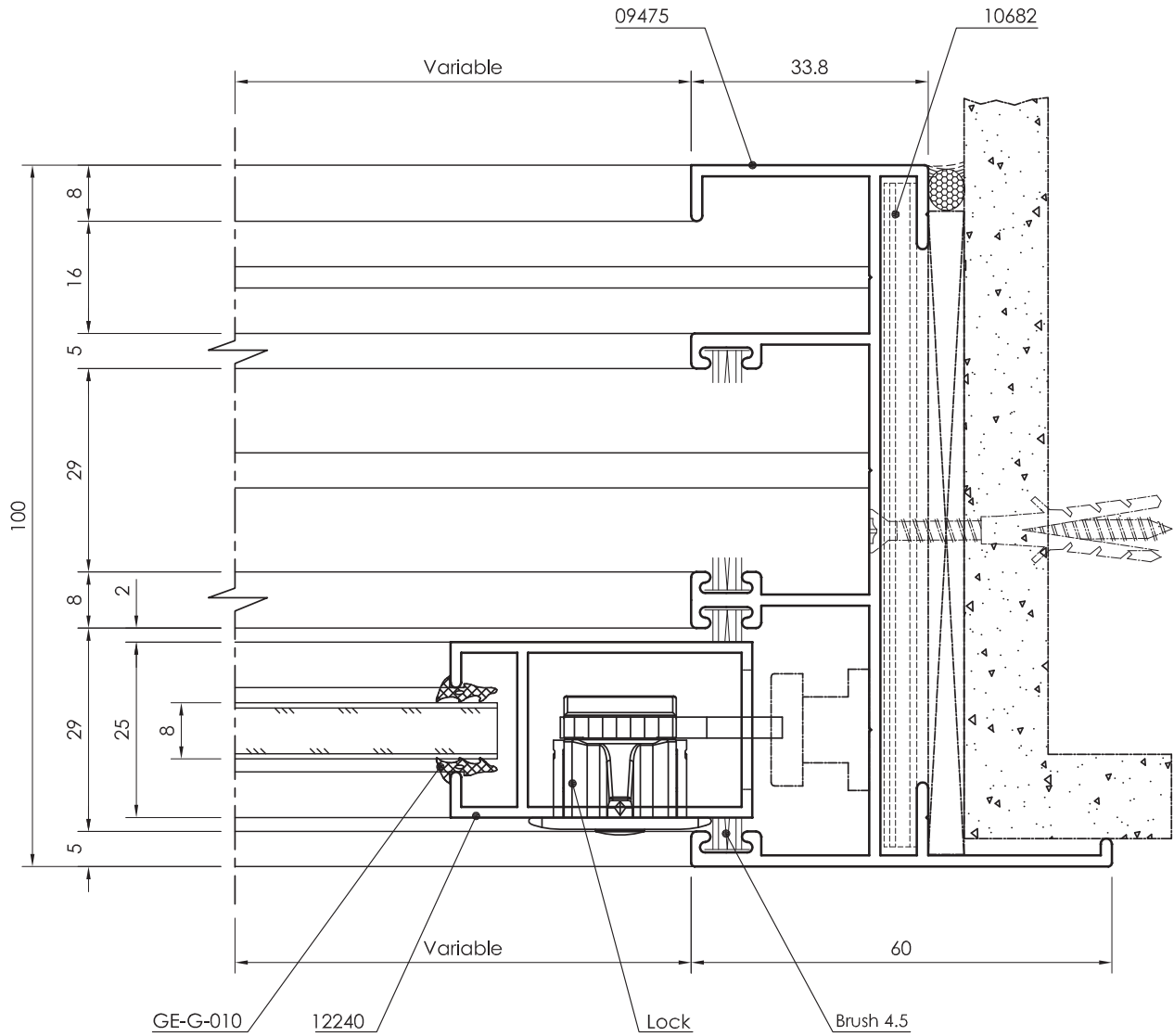


All dimensions in mm
 - - - - - Visible area

Sash Window / Door Series 100

Detail - C

Single Glass unit with
Thickness 6 - 8mm

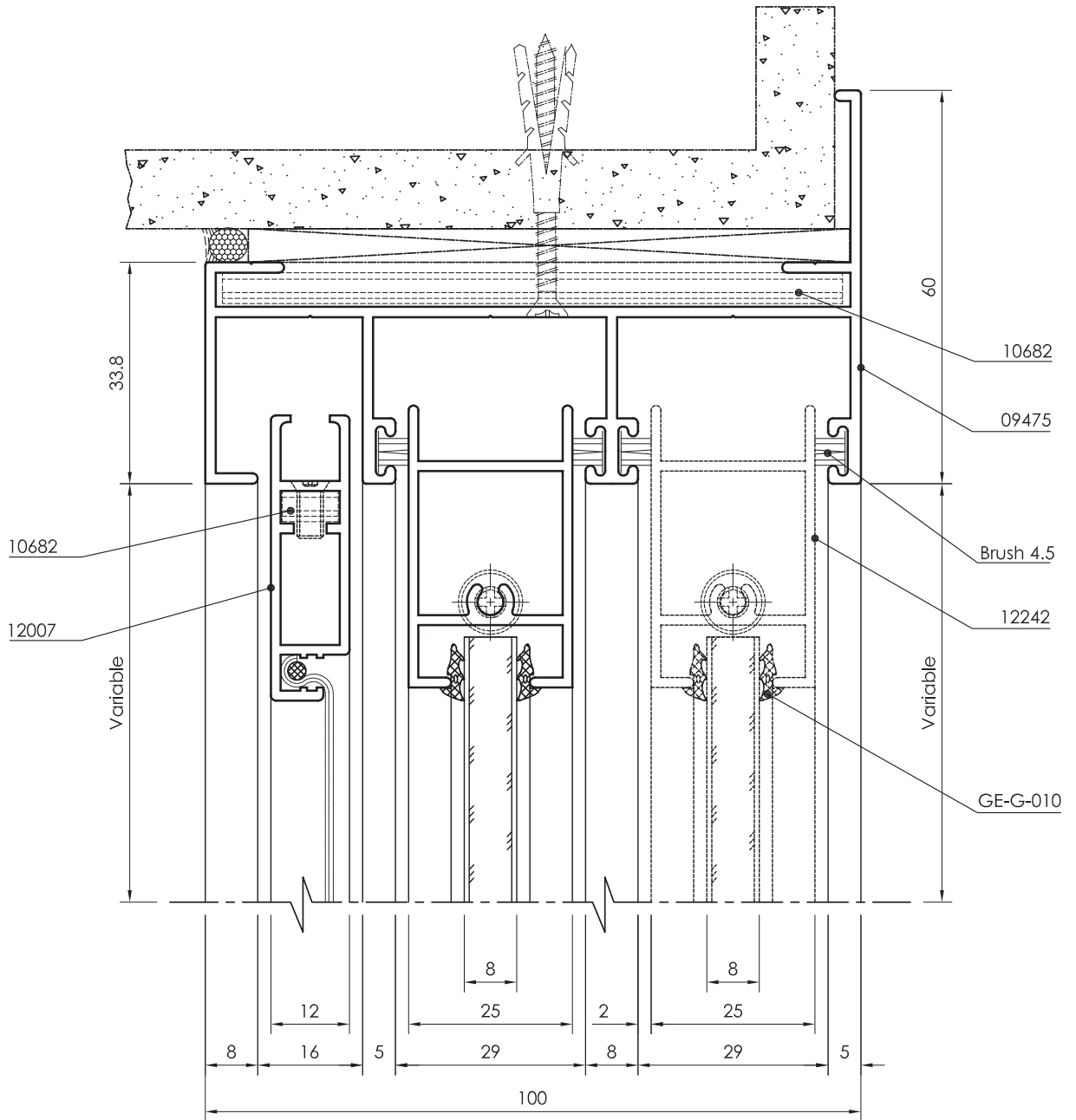


All dimensions in mm
Visible area_____

Sash Window / Door Series 100

Detail - D

Single Glass unit with
Thickness 6 - 8mm

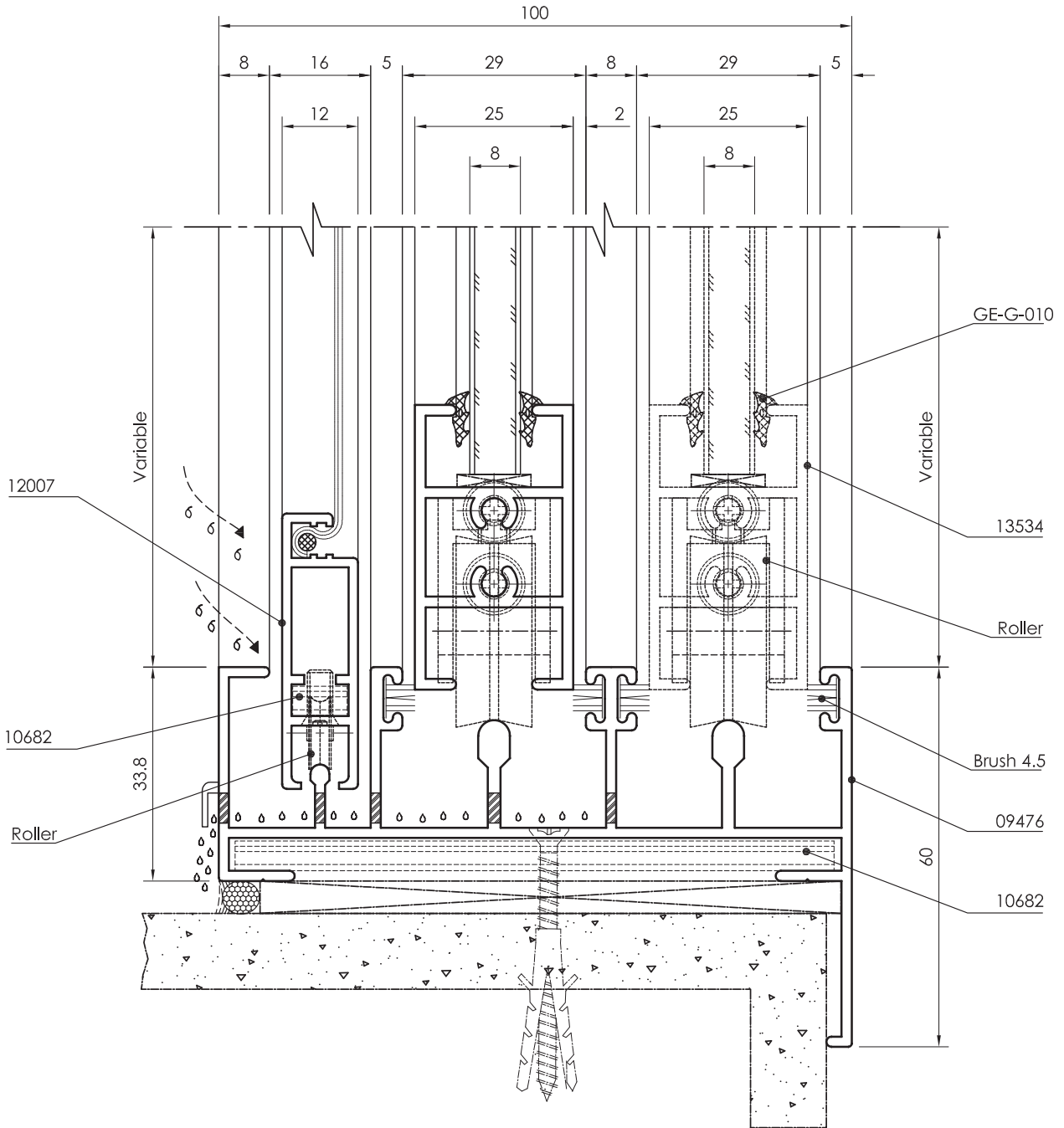


All dimensions in mm
----- Visible area

Sash Window / Door Series 100

Detail - E

Single Glass unit with Thickness 6 - 8mm

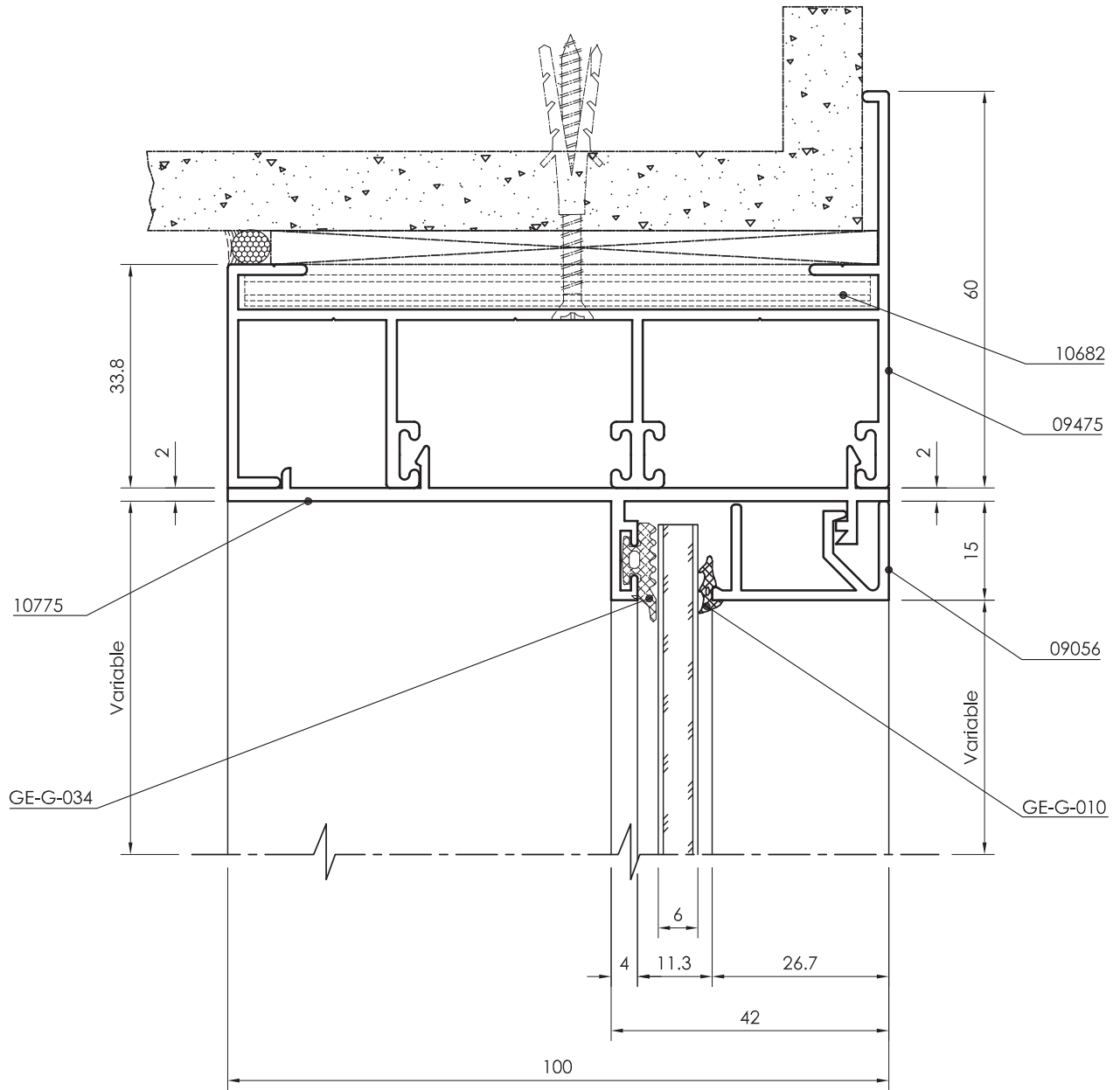


All dimensions in mm
Visible area_-----

Sash Window / Door Series 100

Detail - J

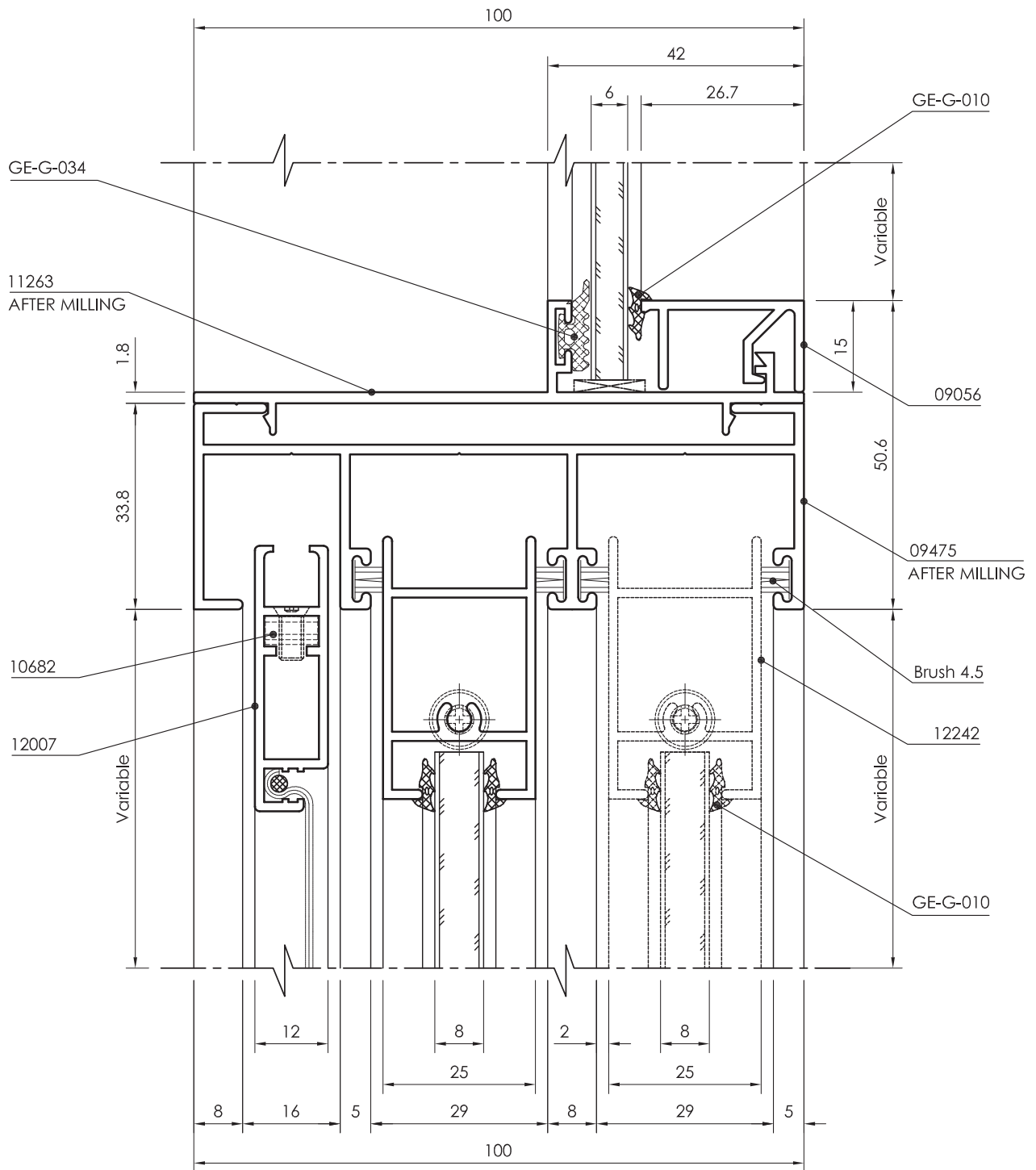
Single Glass unit with
Thickness 6 - 8mm



Sliding Window / Door Series 100

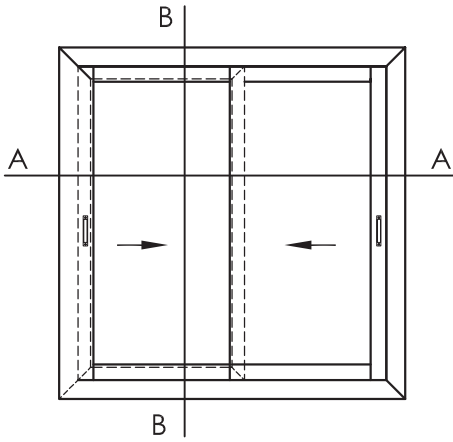
Detail - K

Single Glass unit with Thickness 6 - 8mm



All dimensions in mm
Visible area_-----

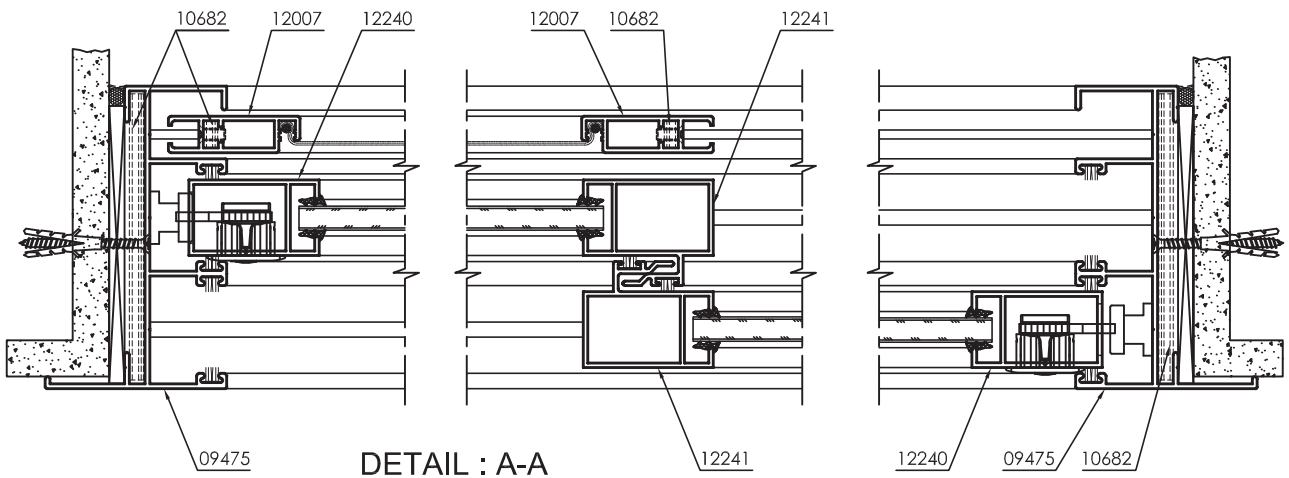
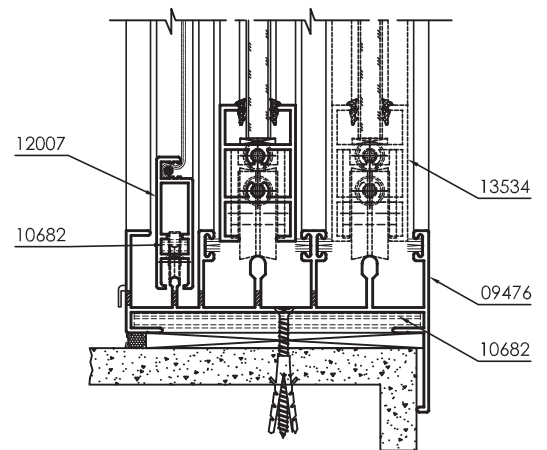
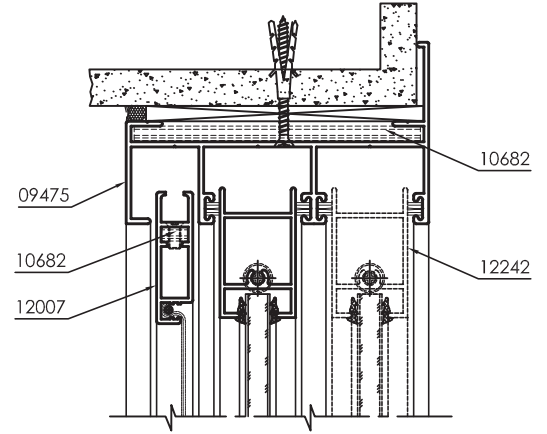
Single Glass unit with Thickness 6 - 8mm



2 - SASH WINDOW

PROFILES (Single Glazed)		
Description	Shape	Section No.
Bottom Frame		09476
Top /Side Frame		09475
Top Sash		12242
Bottom Sash		13534
Side Sash		12240
Interlock		12241
Fly screen		12007
Corner Cleat		10682

DETAIL : B-B

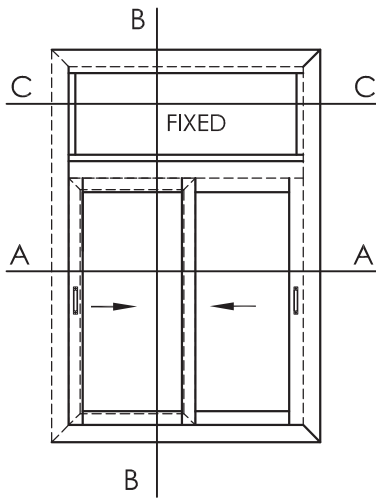


DETAIL : A-A

All dimensions in mm
----- Visible area

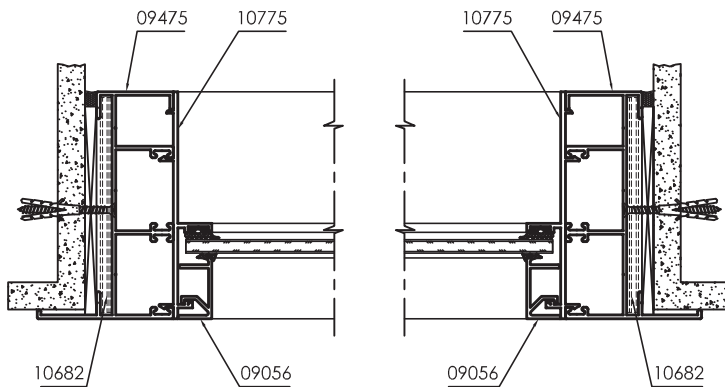
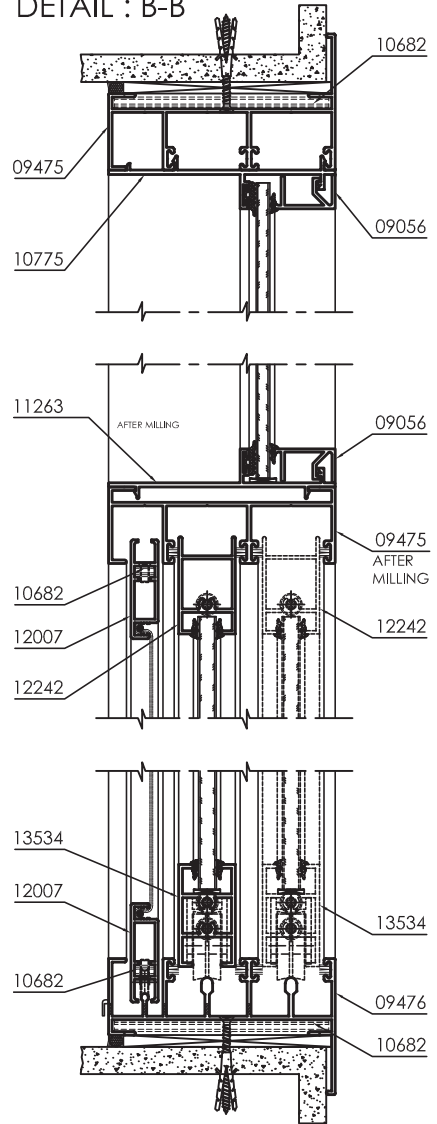
Single Glass unit with Thickness 6 - 8mm

2 - SASH WINDOW WITH FIXED

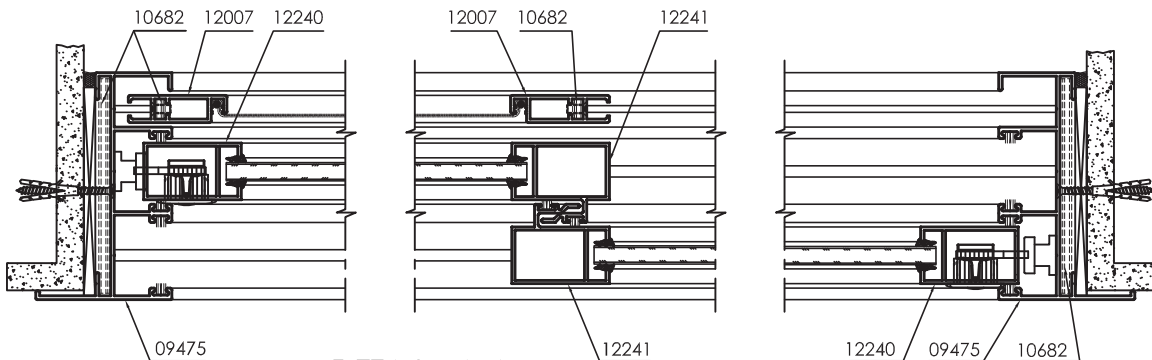


PROFILES (Single Glazed)		
Description	Shape	Section No
Bottom Frame		09476
Top /Side Frame		09475
Top Sash		12242
Bottom Sash		13534
Side Sash		12240
Interlock		12241
Fly screen		12007
Corner Cleat		10682
Fix Adaptor		10775
Fix Adaptor		11263

DETAIL : B-B



DETAIL : C-C

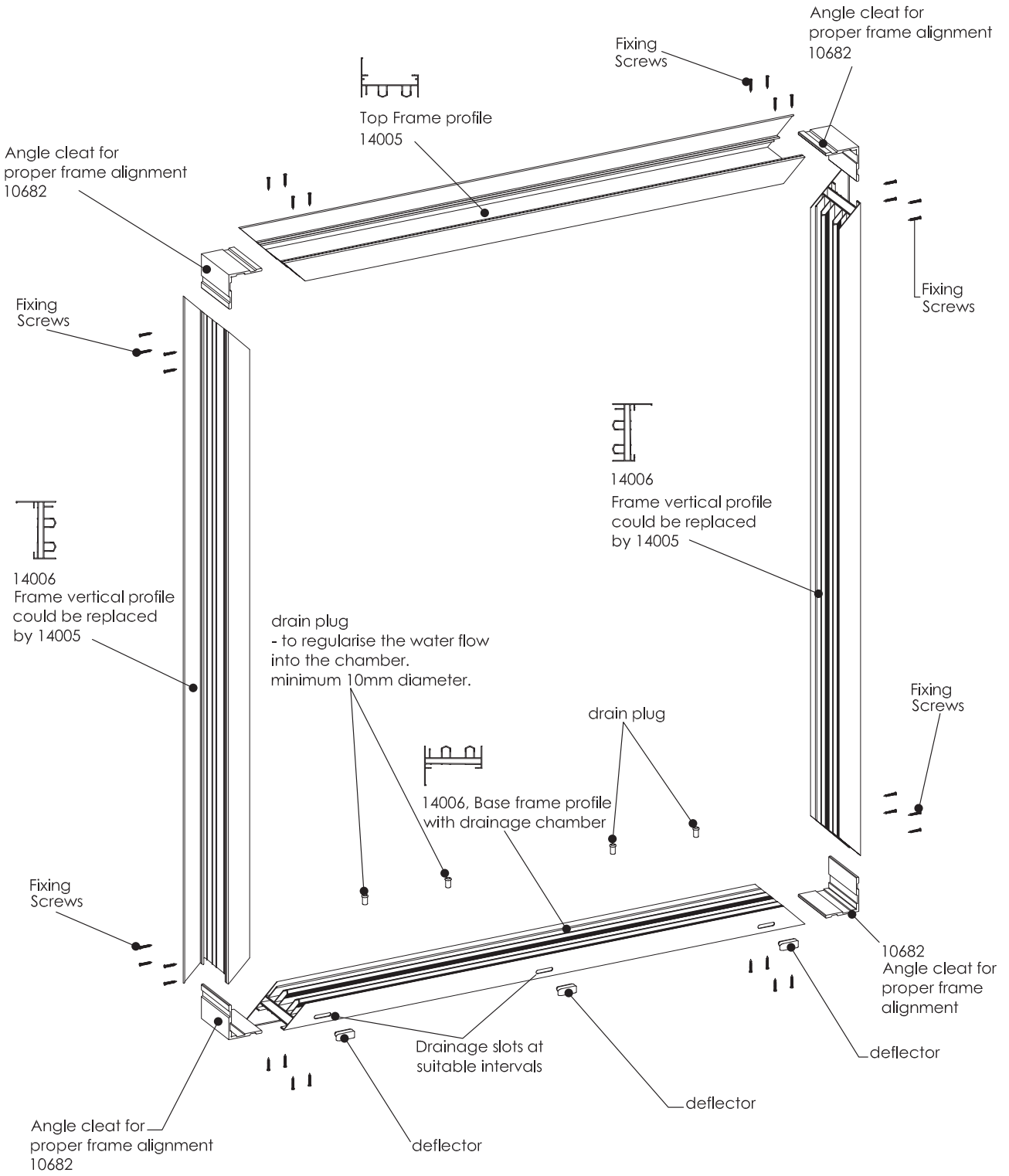


DETAIL : A-A

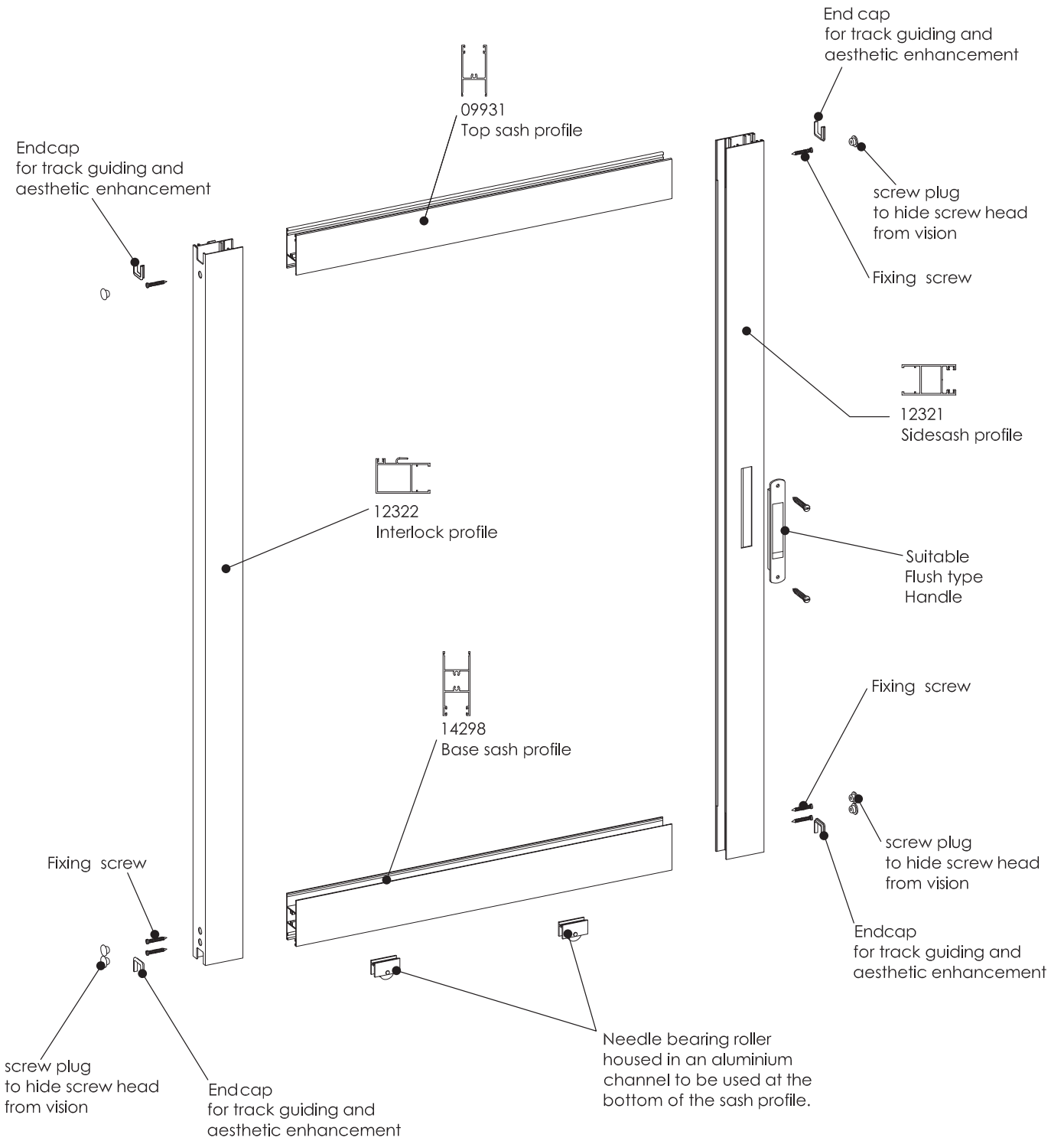
All dimensions in mm
Visible area_-----

3D SECTIONS

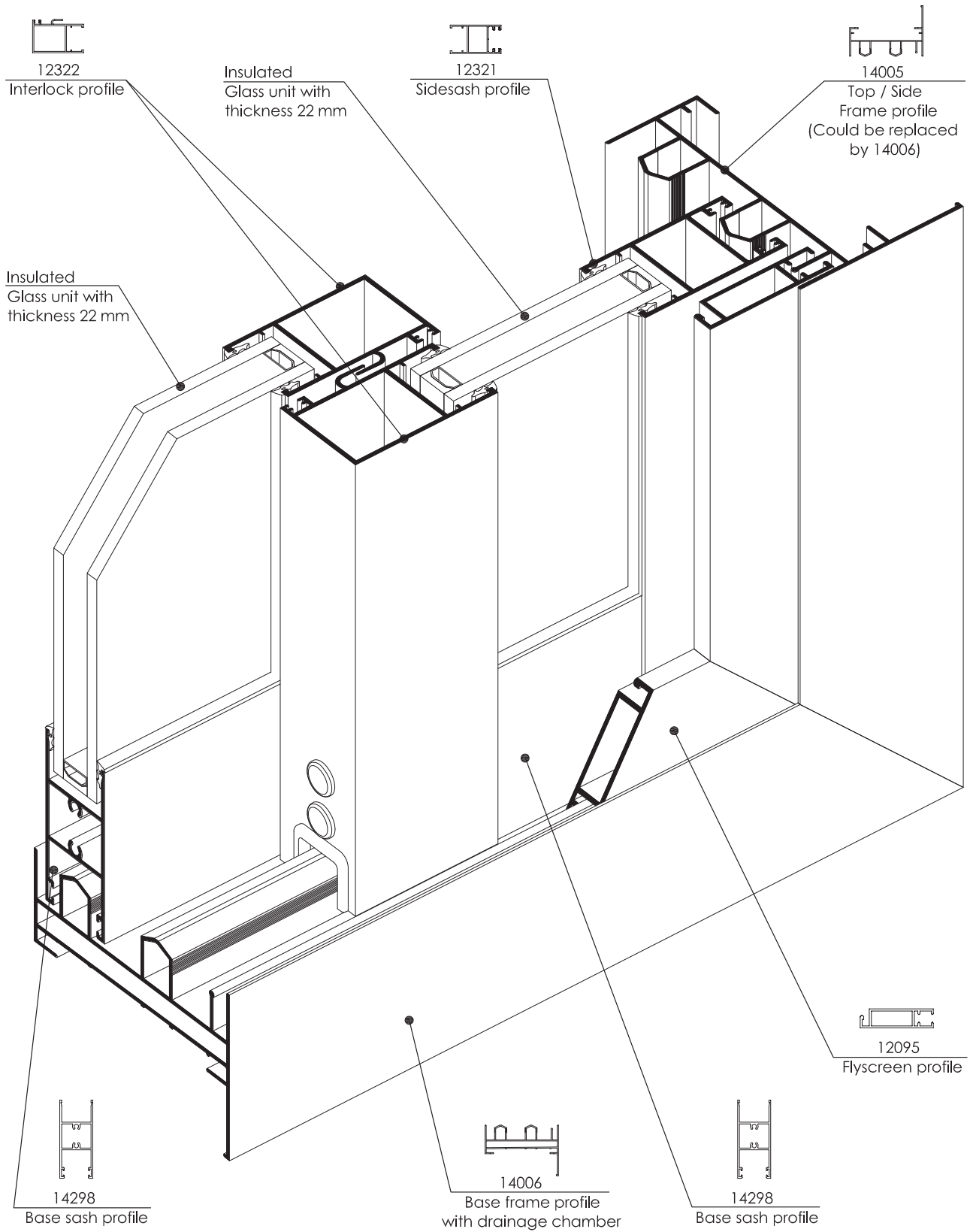
Sliding Frame



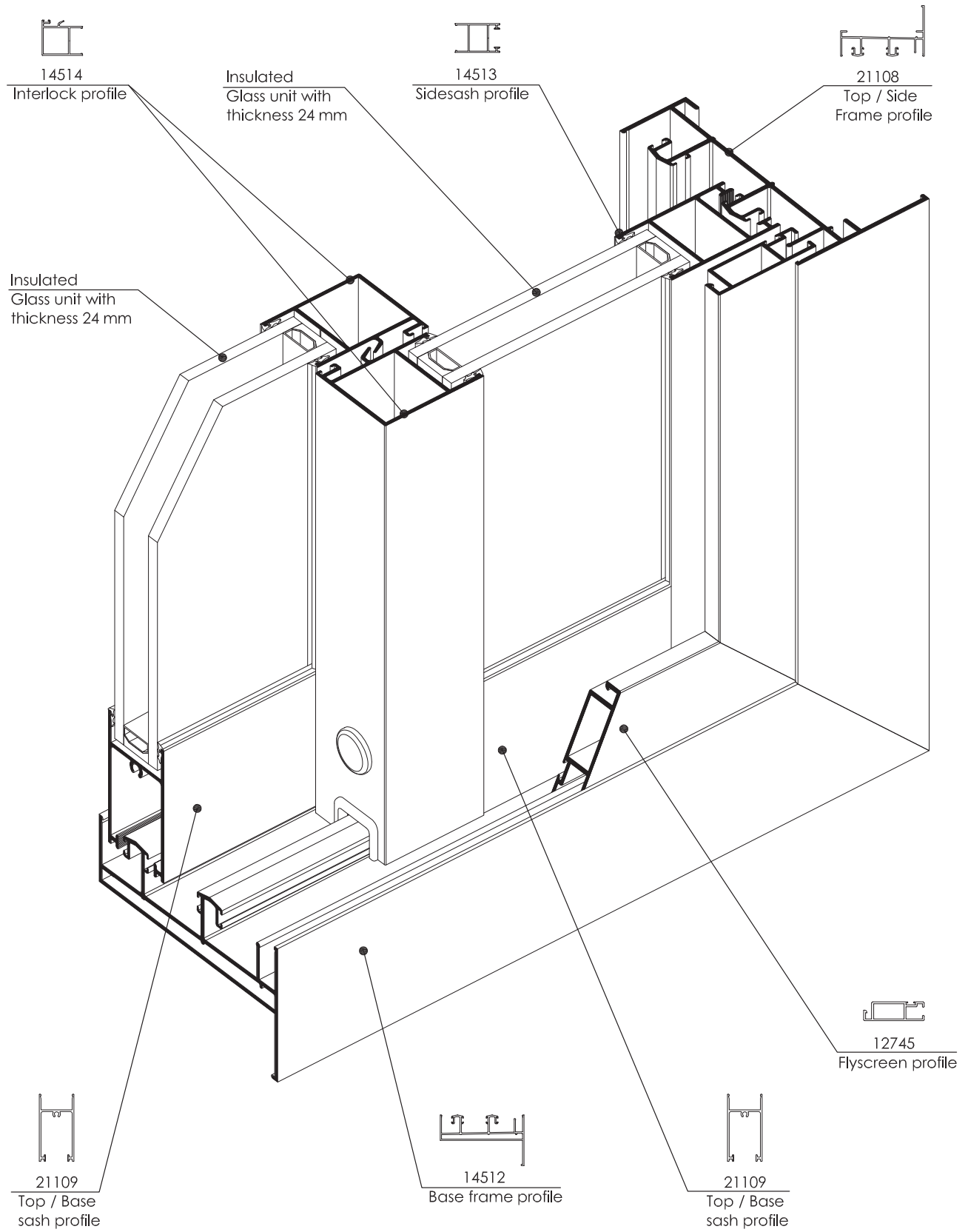
Sliding Slash



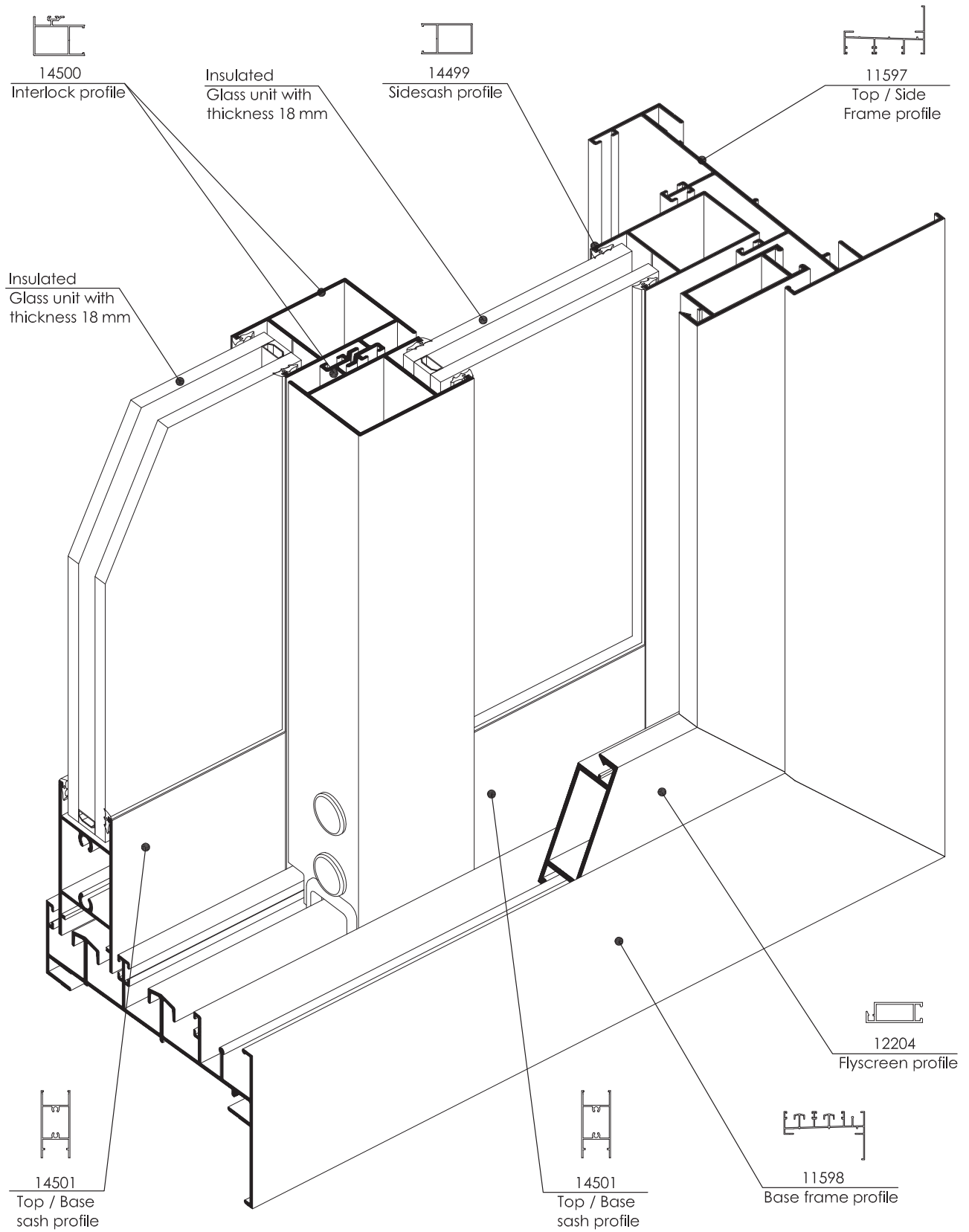
Sliding Frame & Sash Assembly



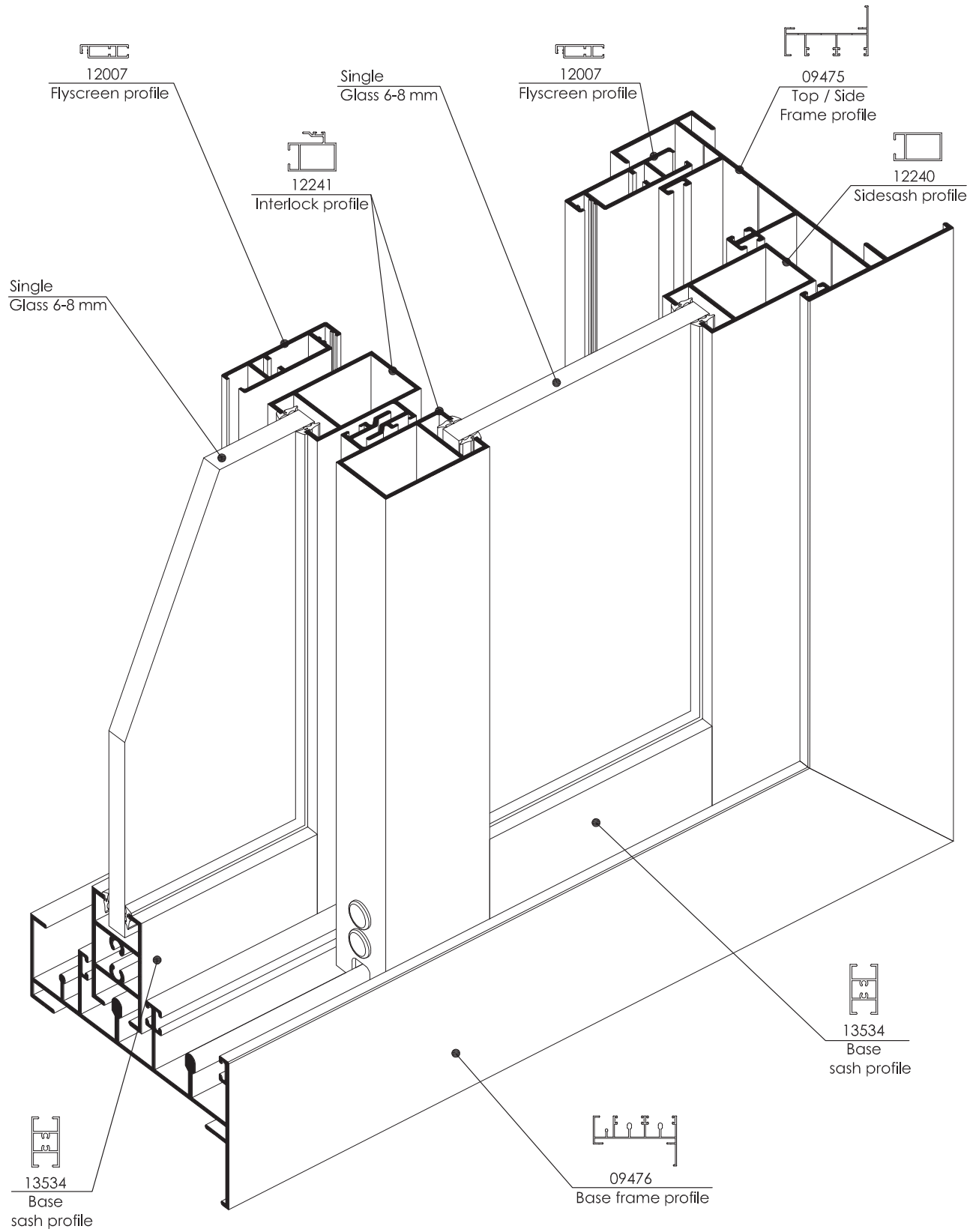
Sliding Frame & Sash Assembly



Sliding Frame & Sash Assembly



Sliding Frame & Sash Assembly



All rights reserved.

No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means electronic, mechanical, photocopying, recording or otherwise, without prior permission of Gulf Extrusions.

