

Hinged 42mm

11-2017-V.03

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42mm HINGED SERIES

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GULF EXTRUSIONS

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

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

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

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

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

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

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

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

INTERNATIONAL STANDARD COMPLIANCE

Extrusions Dimensions Tolerances:

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

Powder Coated Finish:

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

Anodizing Finish:

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



PRODUCT QUALITY CERTIFICATES



Qualicoat (European Powder Coaters Association):

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



Qualanod (European Anodizers Association):

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



- SASO



- ESMA



Management:

- ISO 9001 (Quality Management System)



- ISO/TS 16949:2009 (Management System)



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

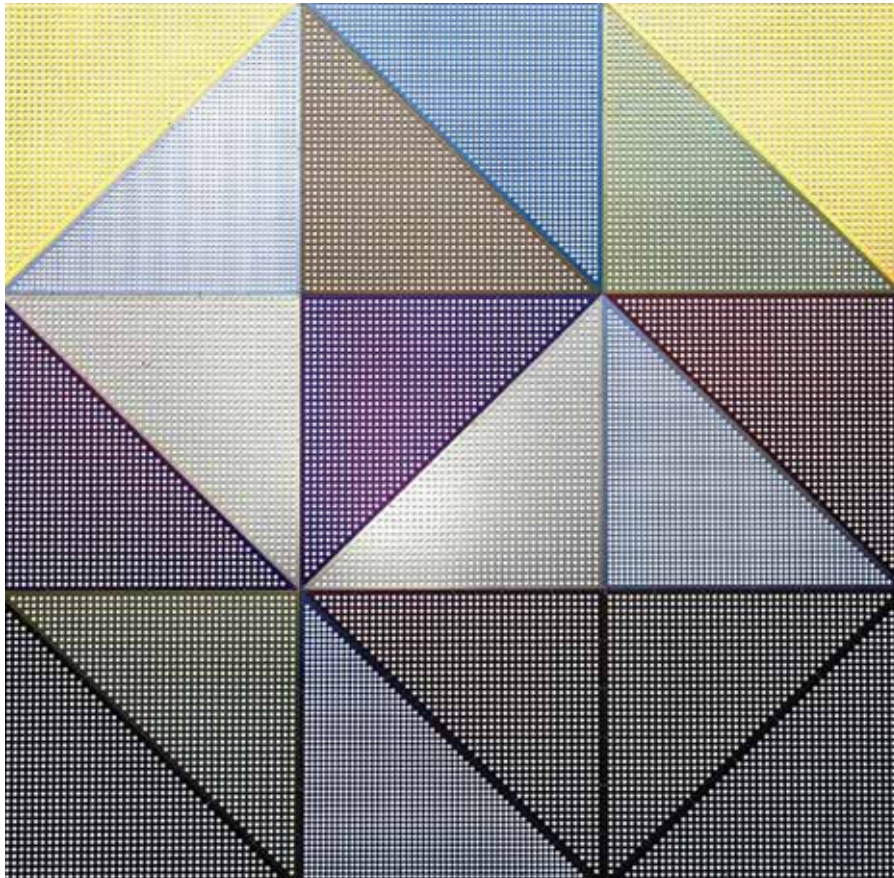
Element	Minimum	Maximum
Si	0.40	0.80
Fe	-	0.70
Cu	0.15	0.40
Mn	-	0.15
Mg	0.8	1.20
Cr	0.04	0.35
Zn	-	0.25
Ti	-	0.15
Other Each	-	0.05
Other Total	-	0.15
Aluminium	Remainder	

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 01.07.2010).

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

Zurich, 15 November 2016

QUALANOD

José Arenas
President

CERTIFICATION BODY

Josef Schoppig
AC-Fiduciaire SA



Mailing address:
QUALANOD, P.O. Box 1507, CH-8027 Zurich
Domicile:
QUALANOD c/o AC-Fiduciaire SA, Tödistrasse 47, CH-8002 Zurich

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

POWDER COATING

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

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

From Gulf Extrusions the following powder types are available

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

This surface treatment process involves the following pre-treatment

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

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

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

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

Authorization to use the quality sign



This is to certify that

GULF EXTRUSIONS CO. LLC

P.O. BOX 5598
AE – Dubai

Licence number: 1901

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

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

Zurich, 15 November 2016

QUALICOAT

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 47, CH-8002 Zurich

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

INTRODUCTION TO THE SYSTEM

The 42 mm Gulf Ex. Hinged Series is a design concept to combine esthetics and performance. Full solution package is supported to fulfill the requirement to cover the needed applications. It is designed for heavy duty use according to the American National Standard. The results has been impressive. All profiles are available in all colors in order to meet today's modern architectural requirements. For better performance of the System, Alignment cleats for the frame and the shutter are used.

Specially designed EPDM Gaskets are made available with the system to enhance the performance and create easy assembly. Other accessories such as rollers and handles come as part of the system.

Sections:

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

Frame:

Strong cross section profiles of 42mm, a wide range of frames are available to suit most of the required application in the building codes.

Sash:

Tubular straight, elegant and stylish of 42mm width. A wide range is available to cover all the needed applications and glass thicknesses.

Assembly:

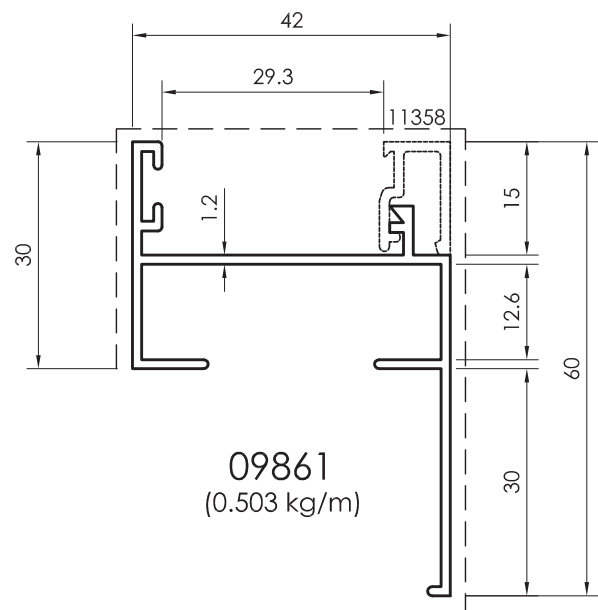
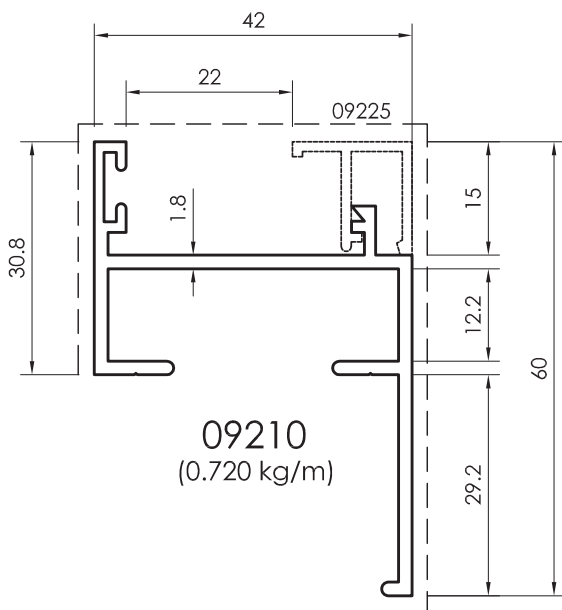
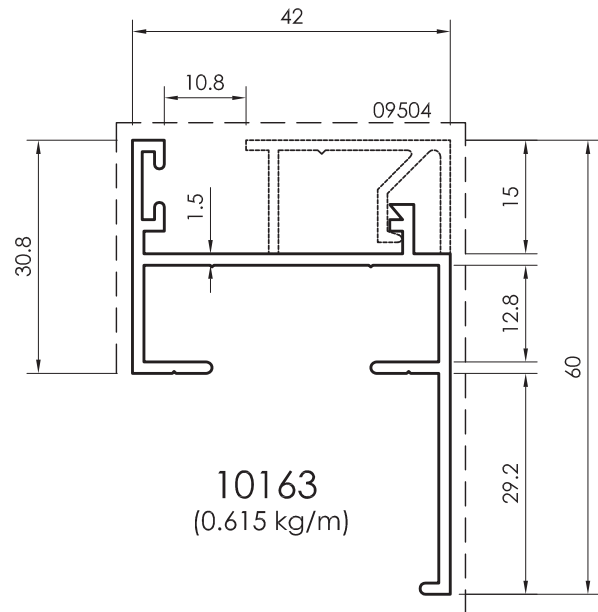
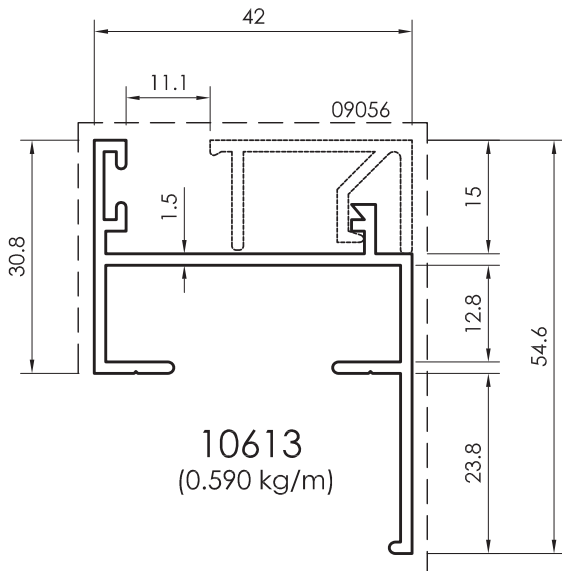
Assembly of the frames is done by 45° cut same as the sashes at a custom 45° cut. All of the mounting components are made of aluminum.

Glazing:

Standard or isolating ranges from "6 to 24" mm maintained by two EPDM joint and bead clipped at a minimum height of 15 mm. Bead must be on the side of the installation. The System consists of a different frame and different sash profile that will be used on the four sides, where this system provides the options for inward and outward opening. The System covers arch shape , louvers and swing doors

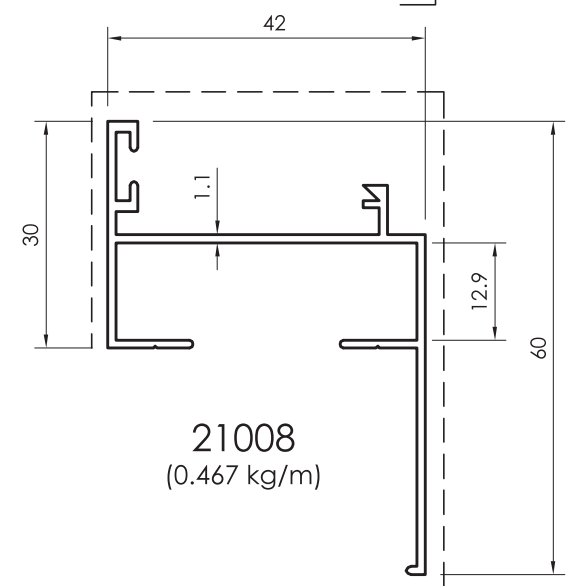
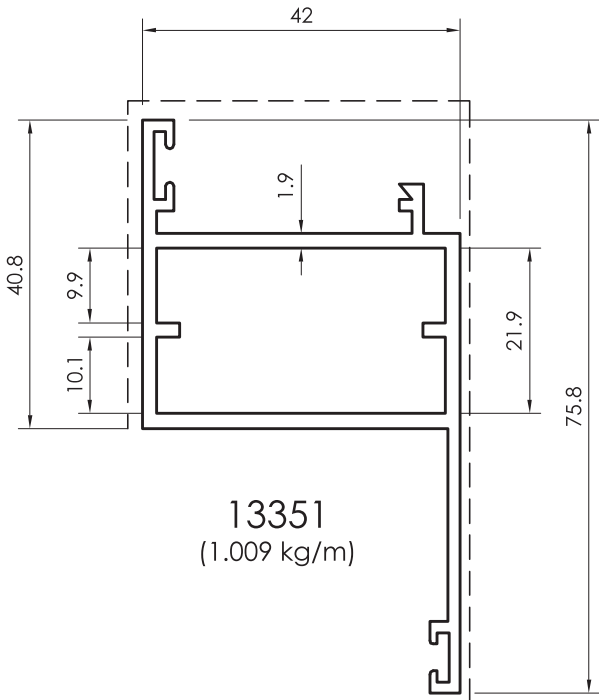
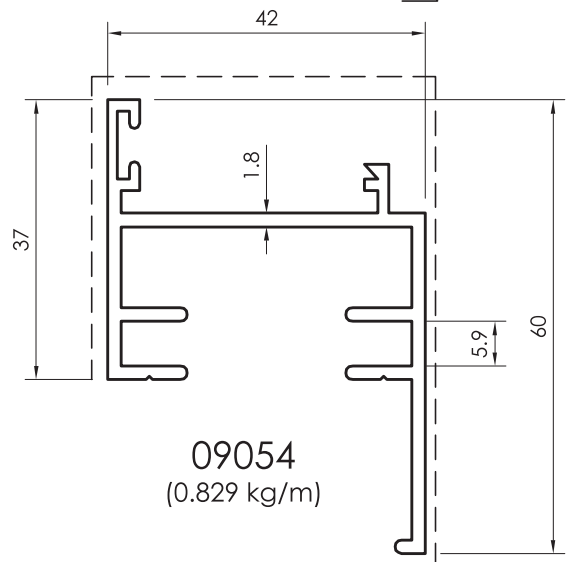
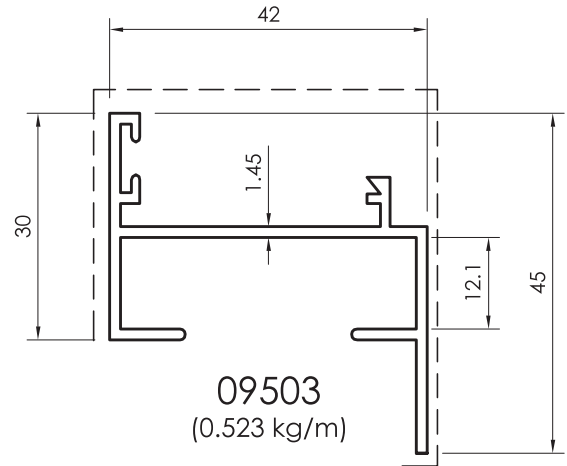
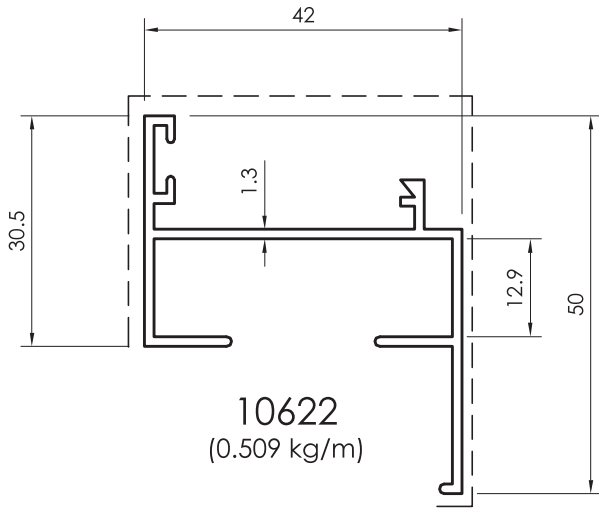
PROFILES

Frame Profiles



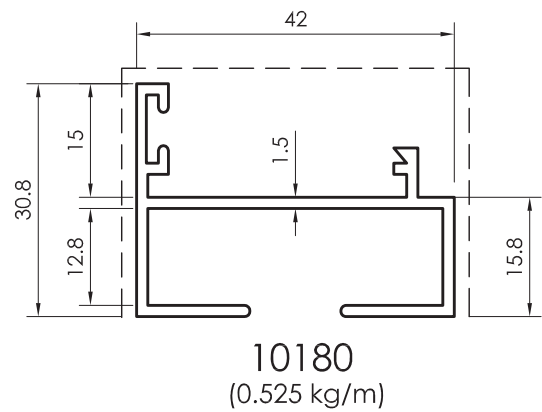
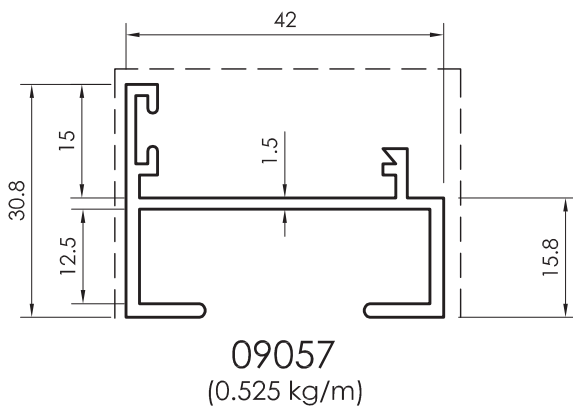
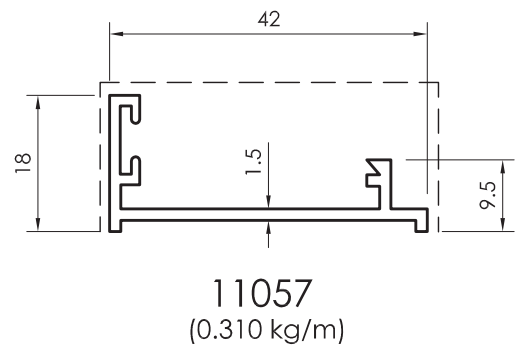
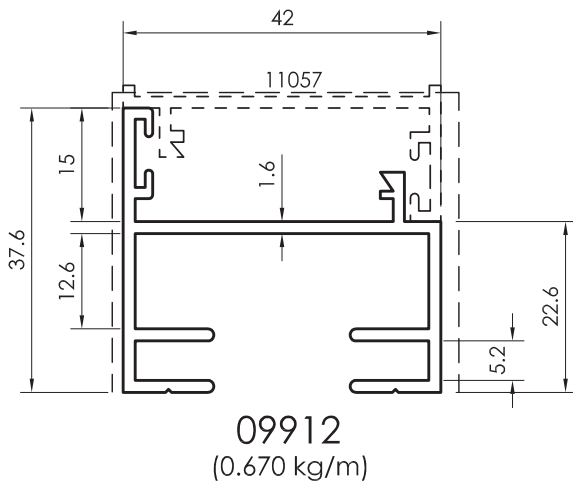
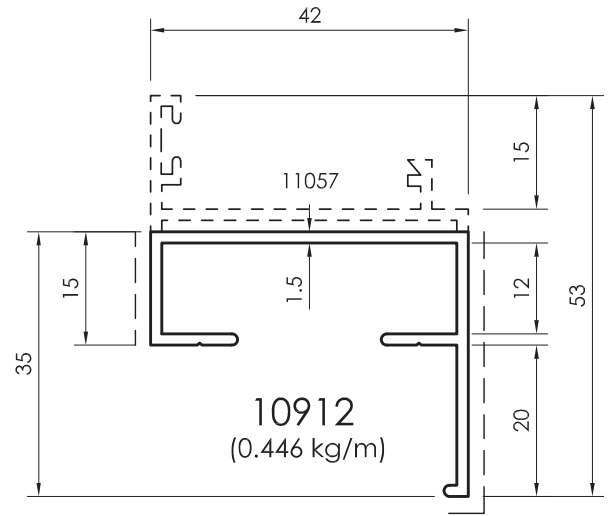
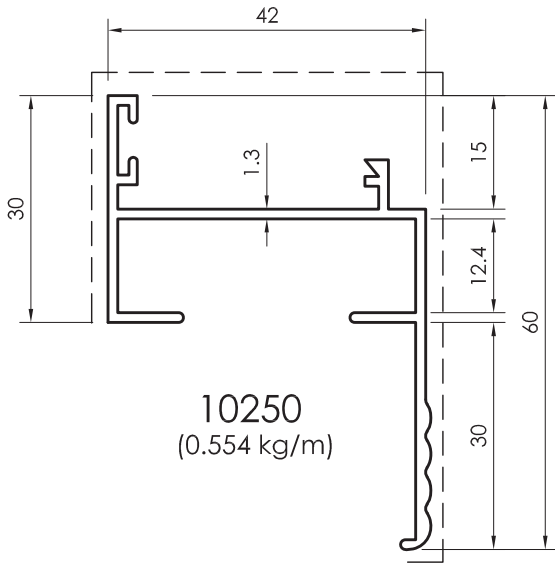
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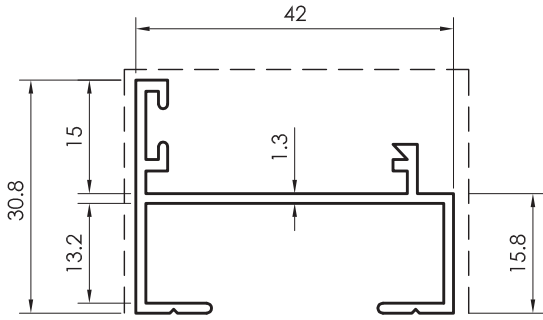
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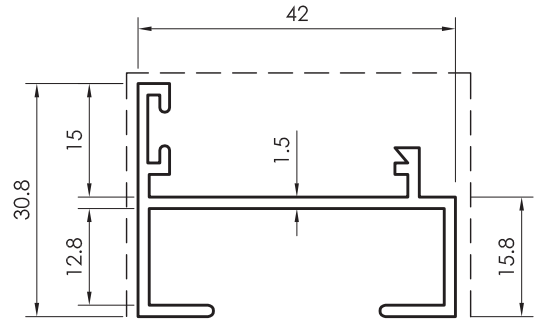


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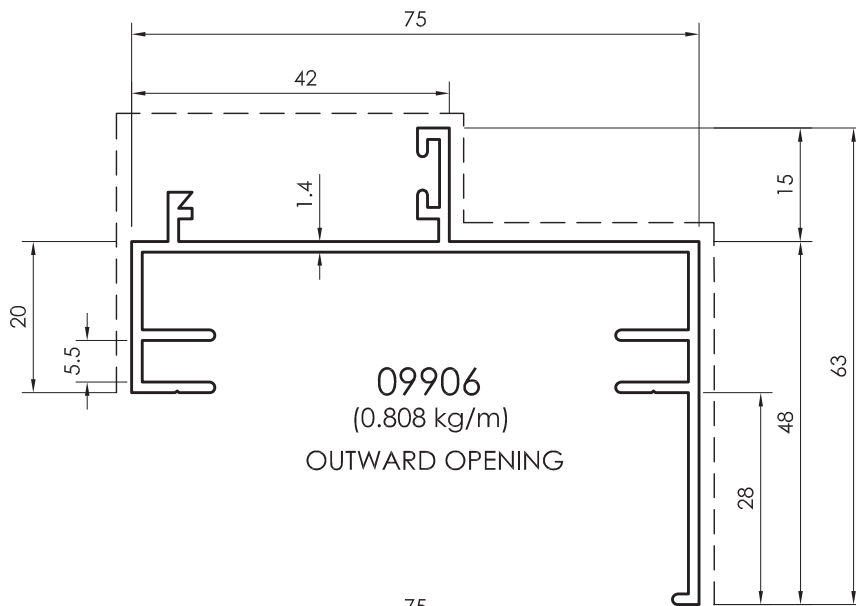
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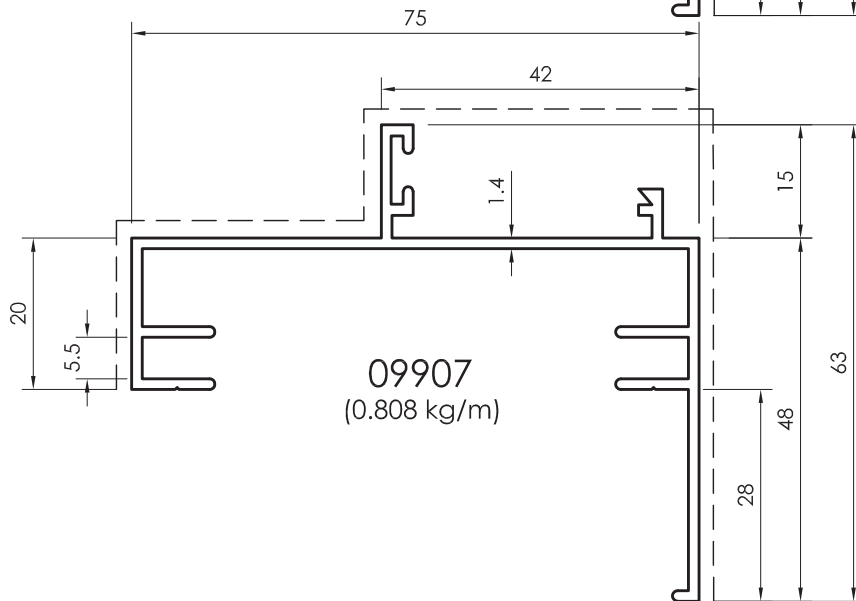
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(0.432 kg/m)



10230
(0.485 kg/m)



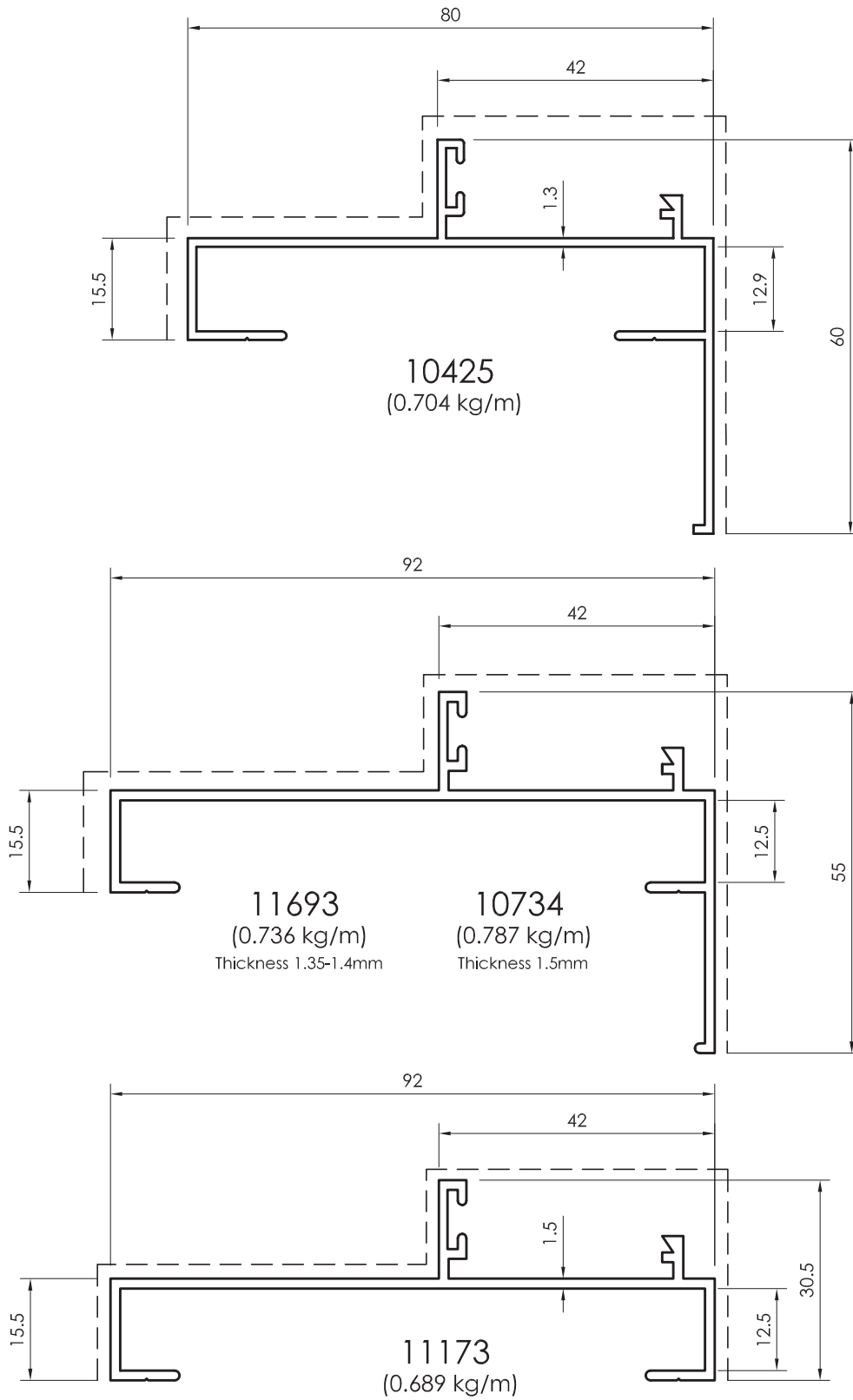
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(0.808 kg/m)
OUTWARD OPENING



09907
(0.808 kg/m)

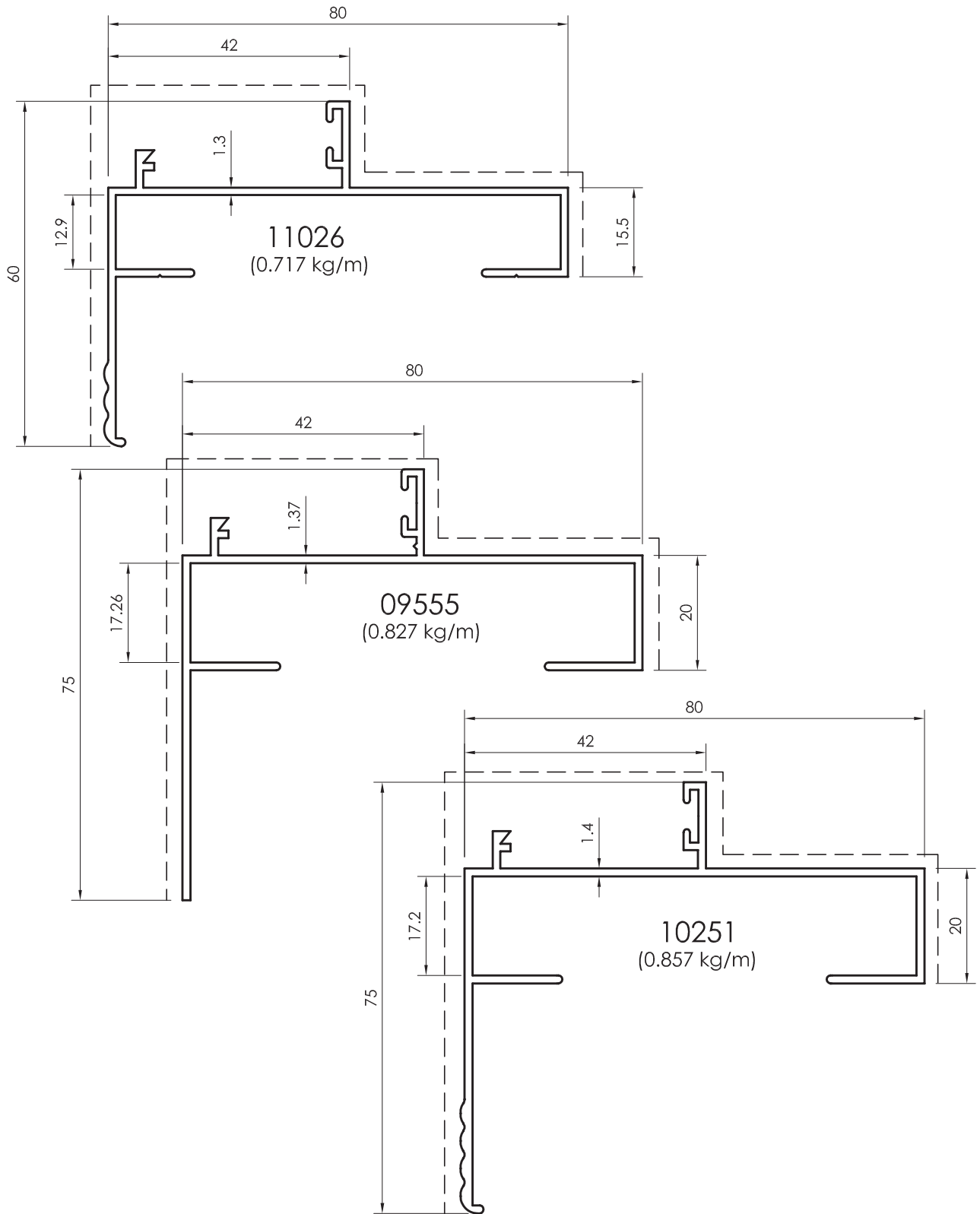
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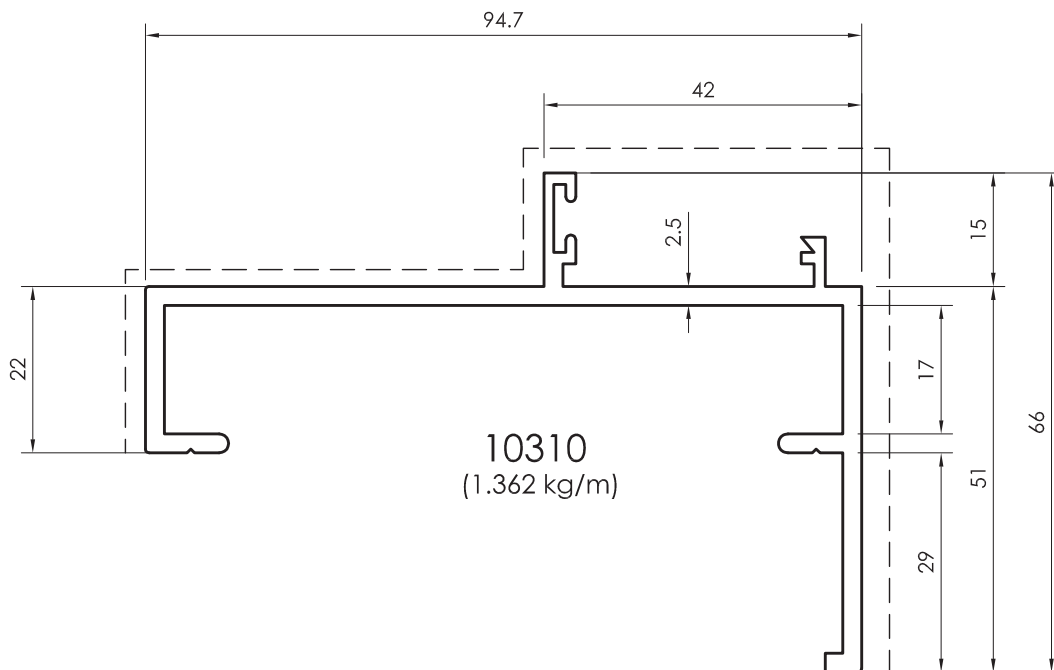
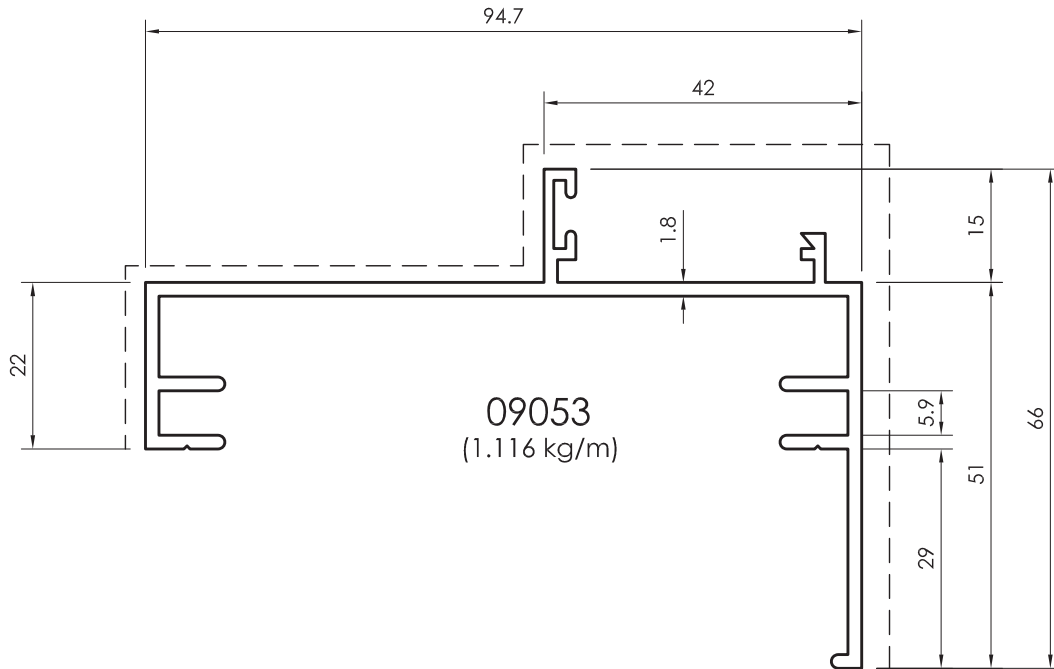
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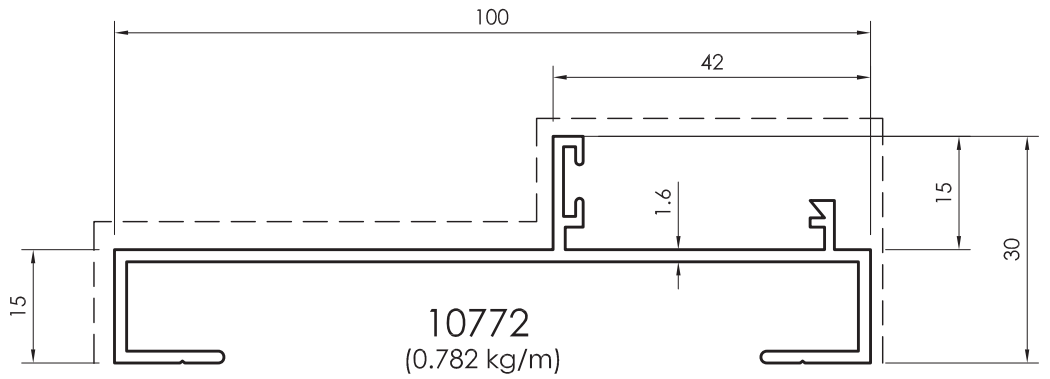
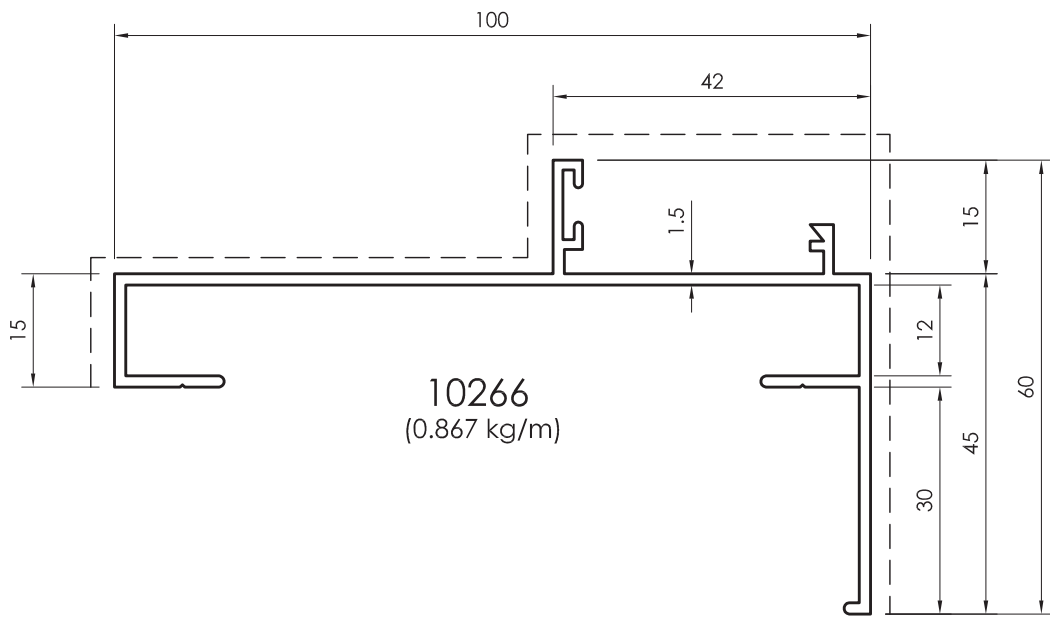
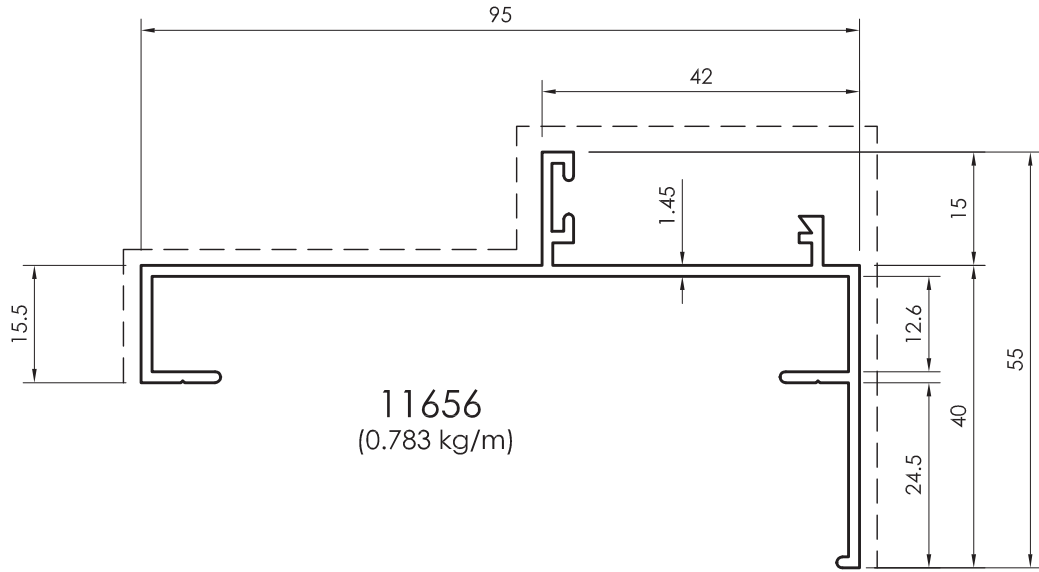
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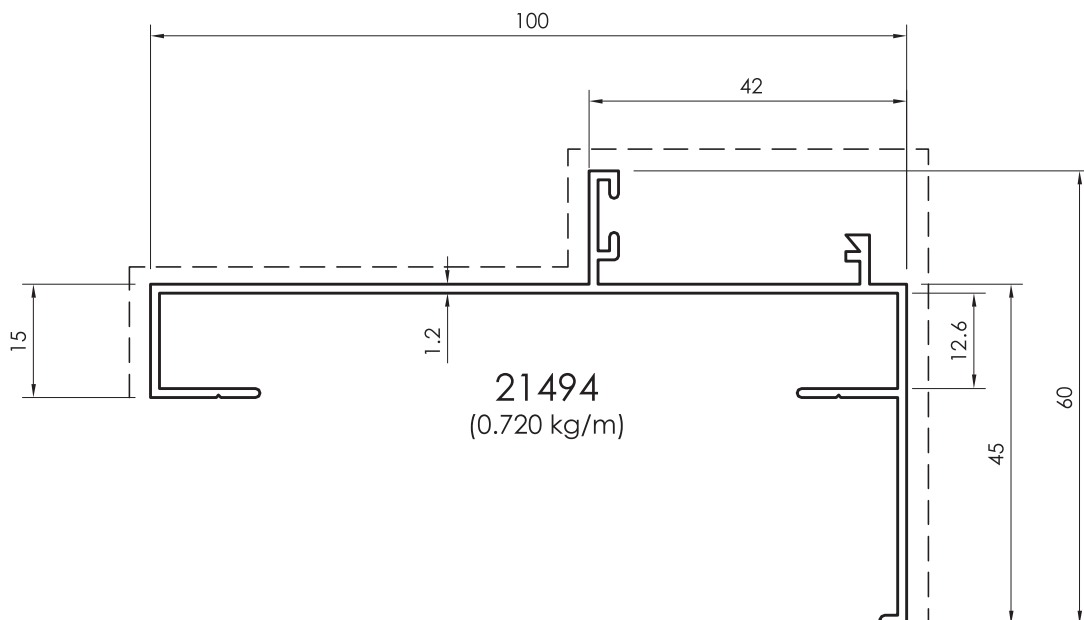
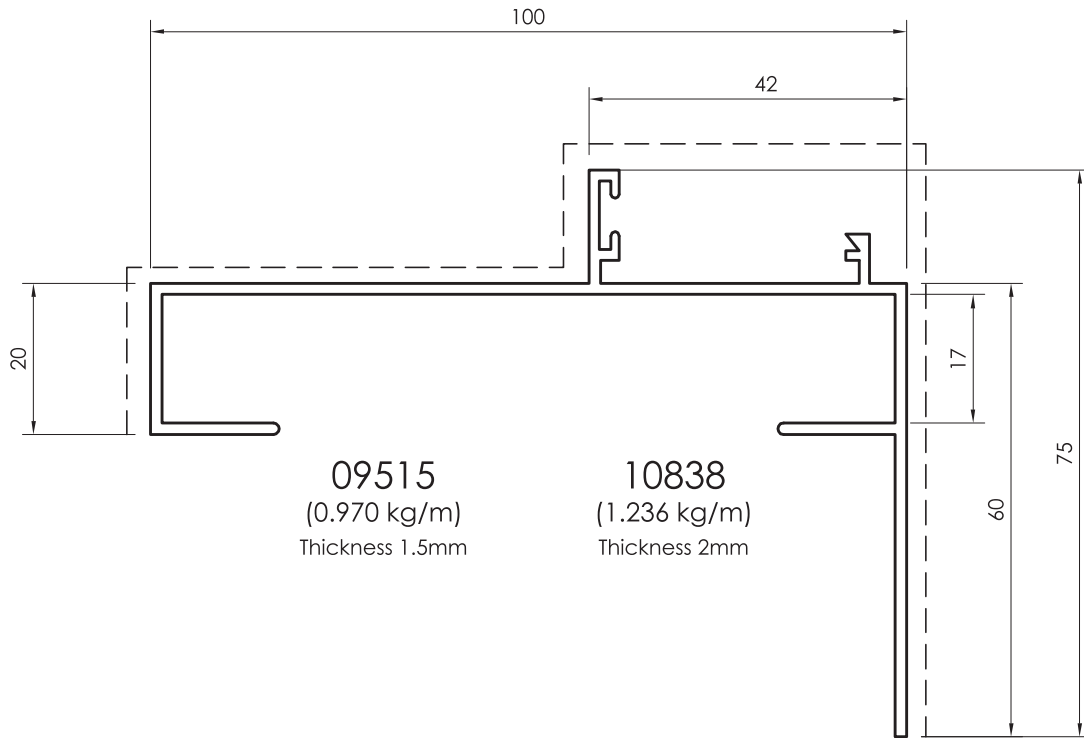
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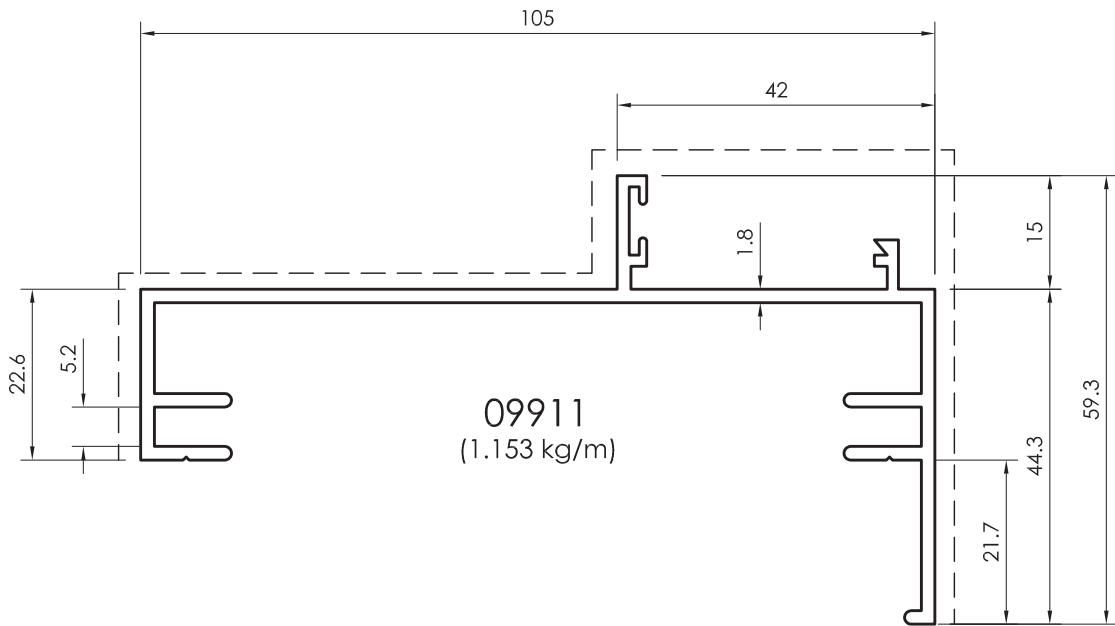
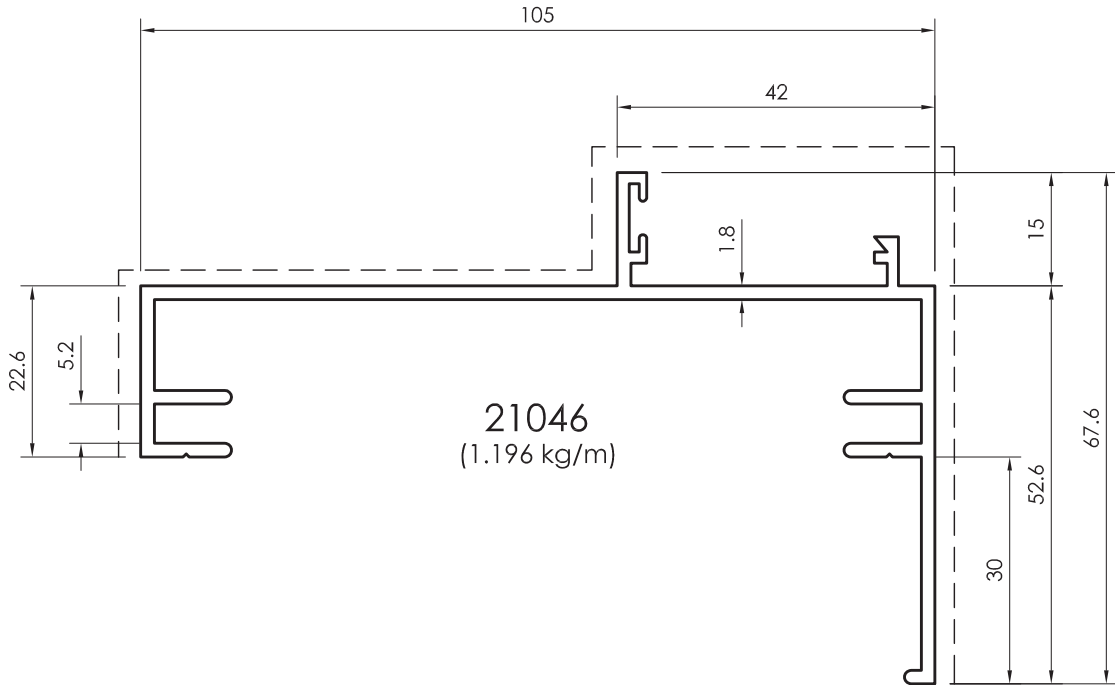
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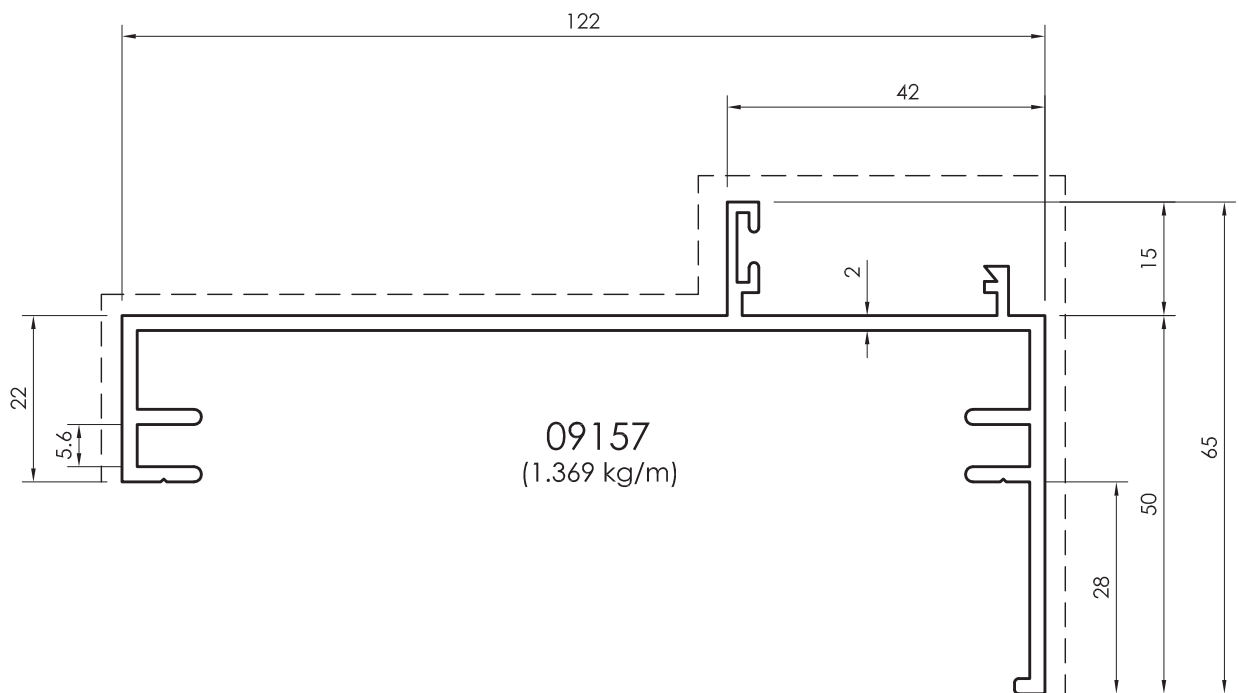
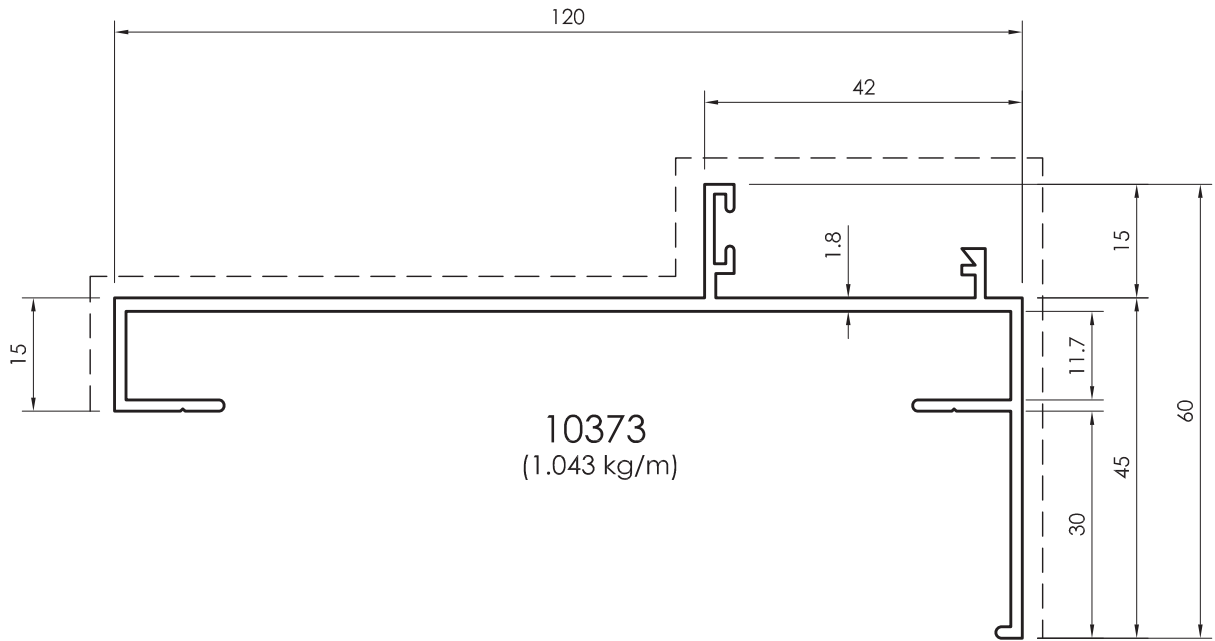
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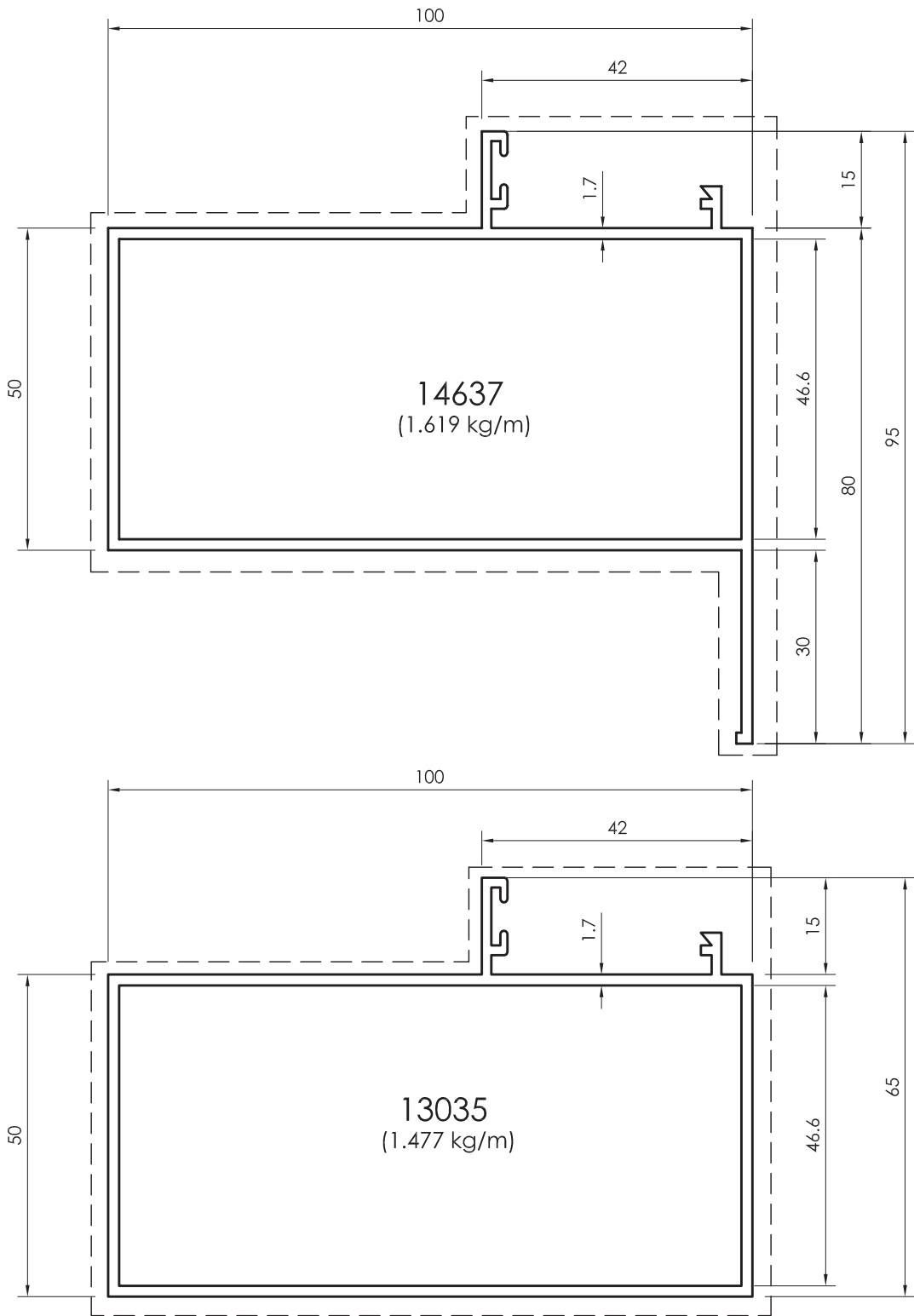
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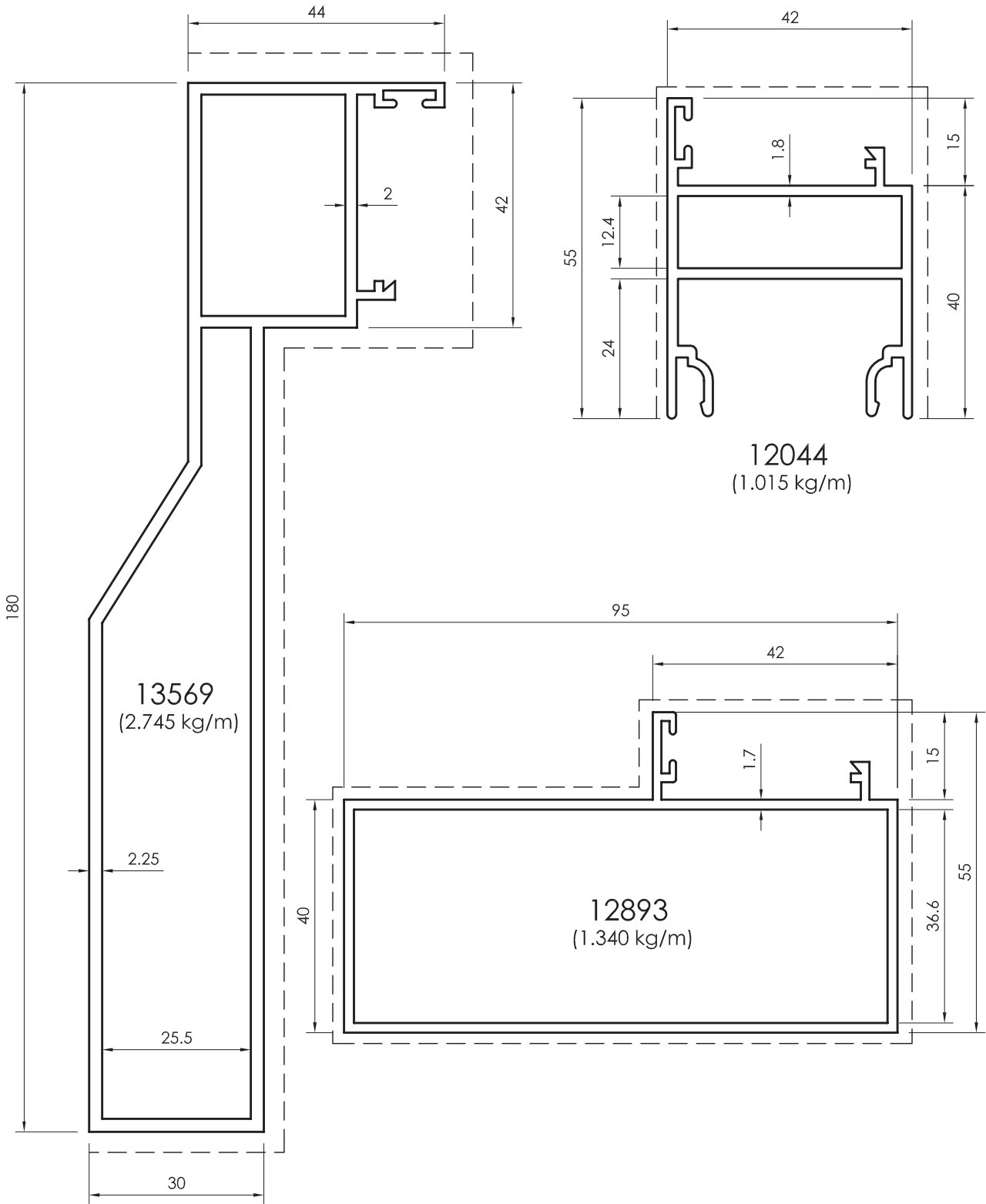
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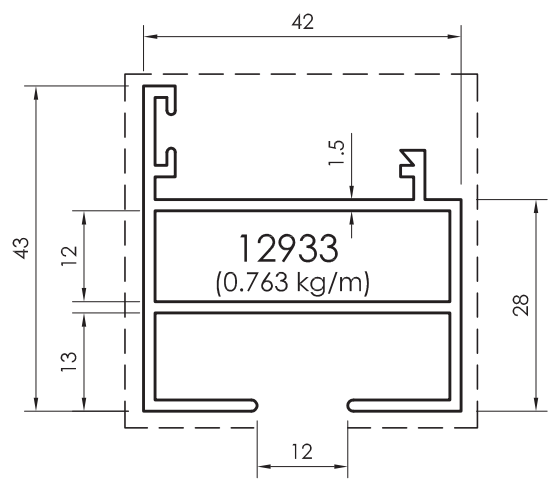
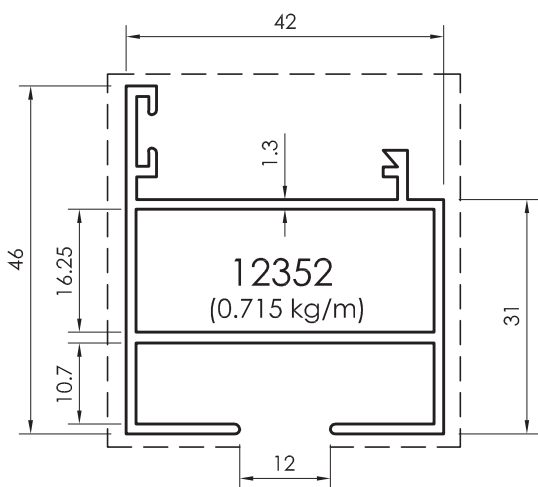
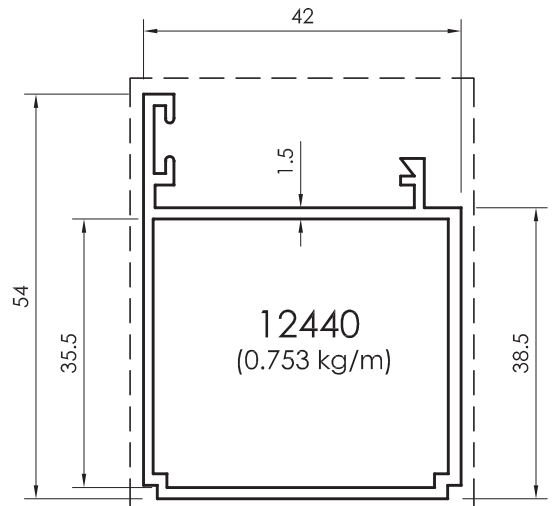
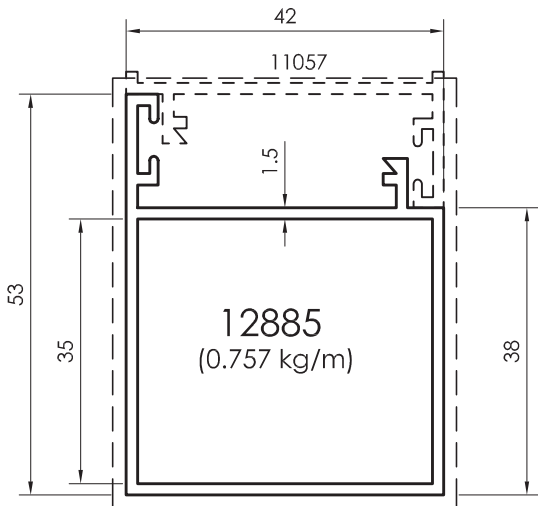
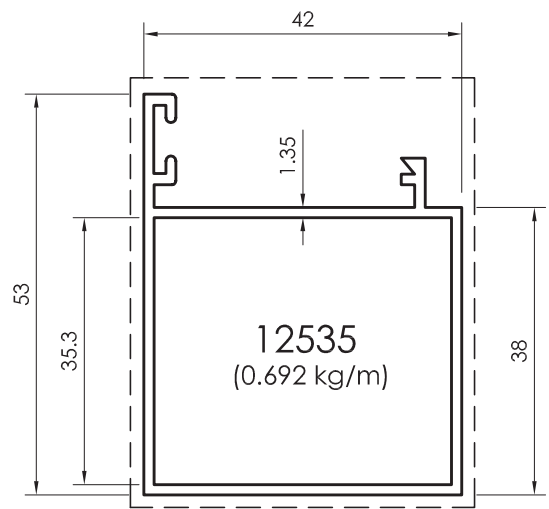
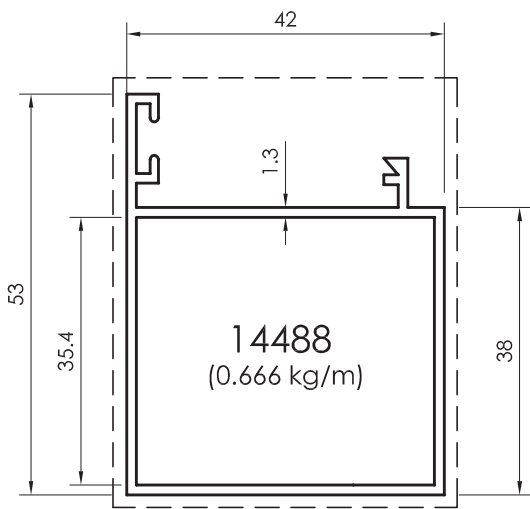
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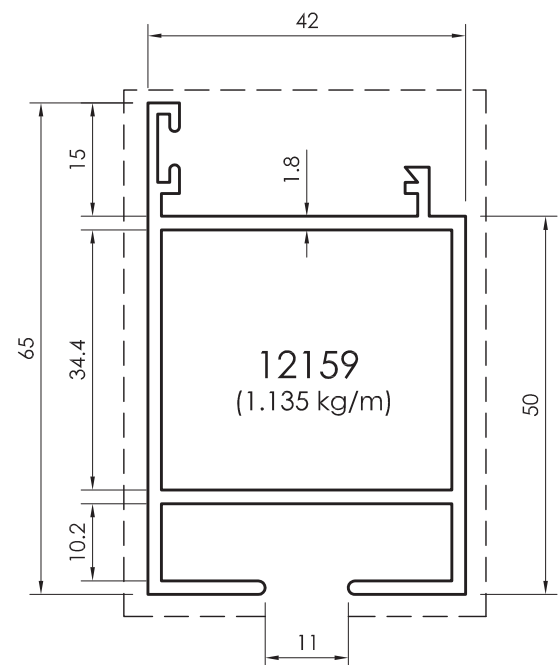
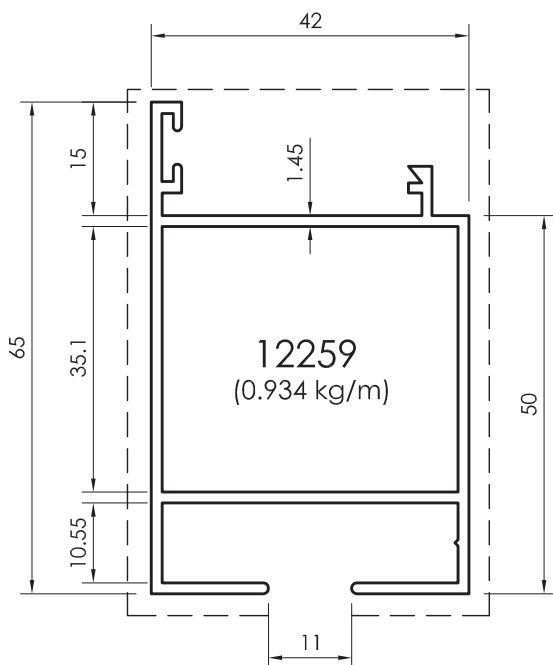
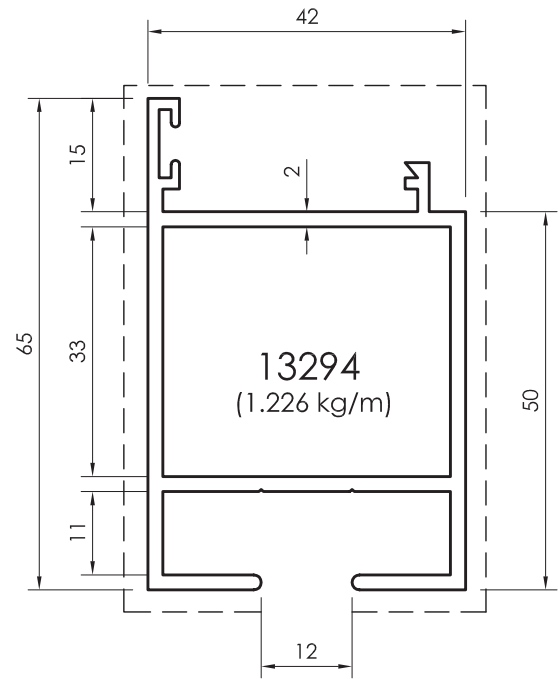
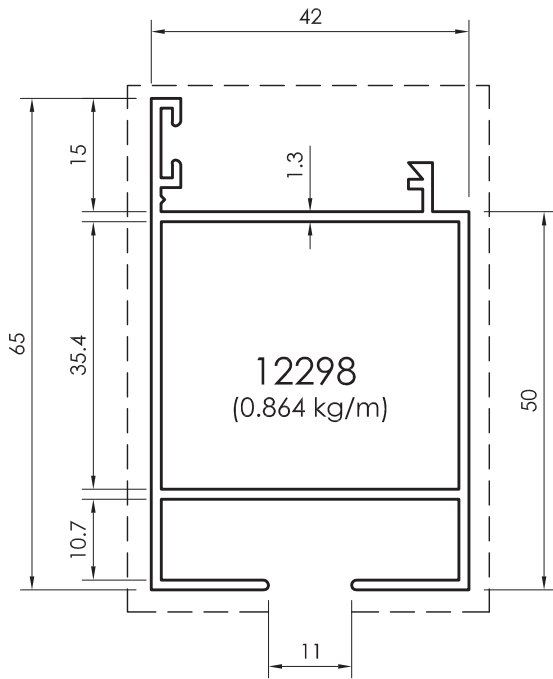
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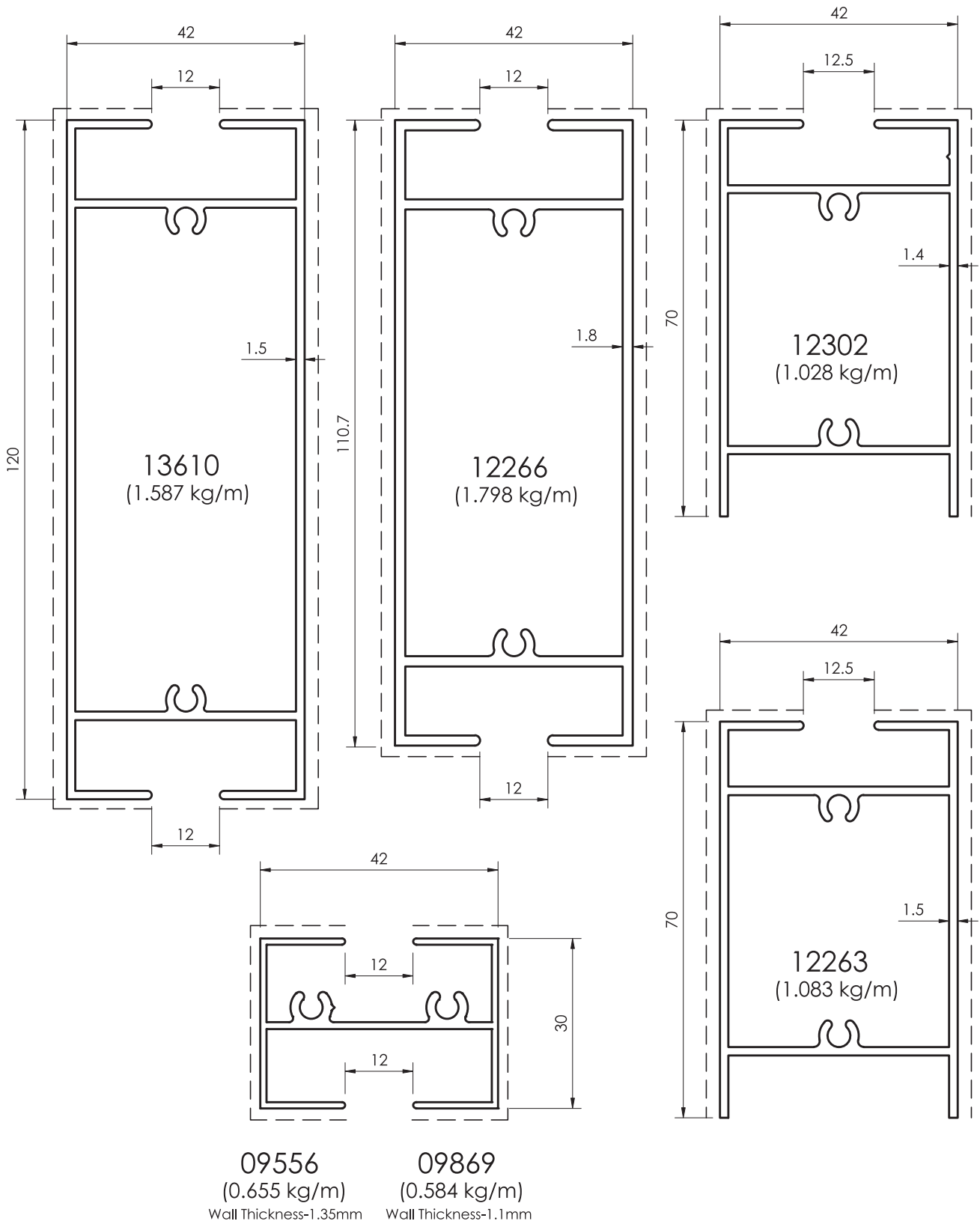
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Intermediate Profiles



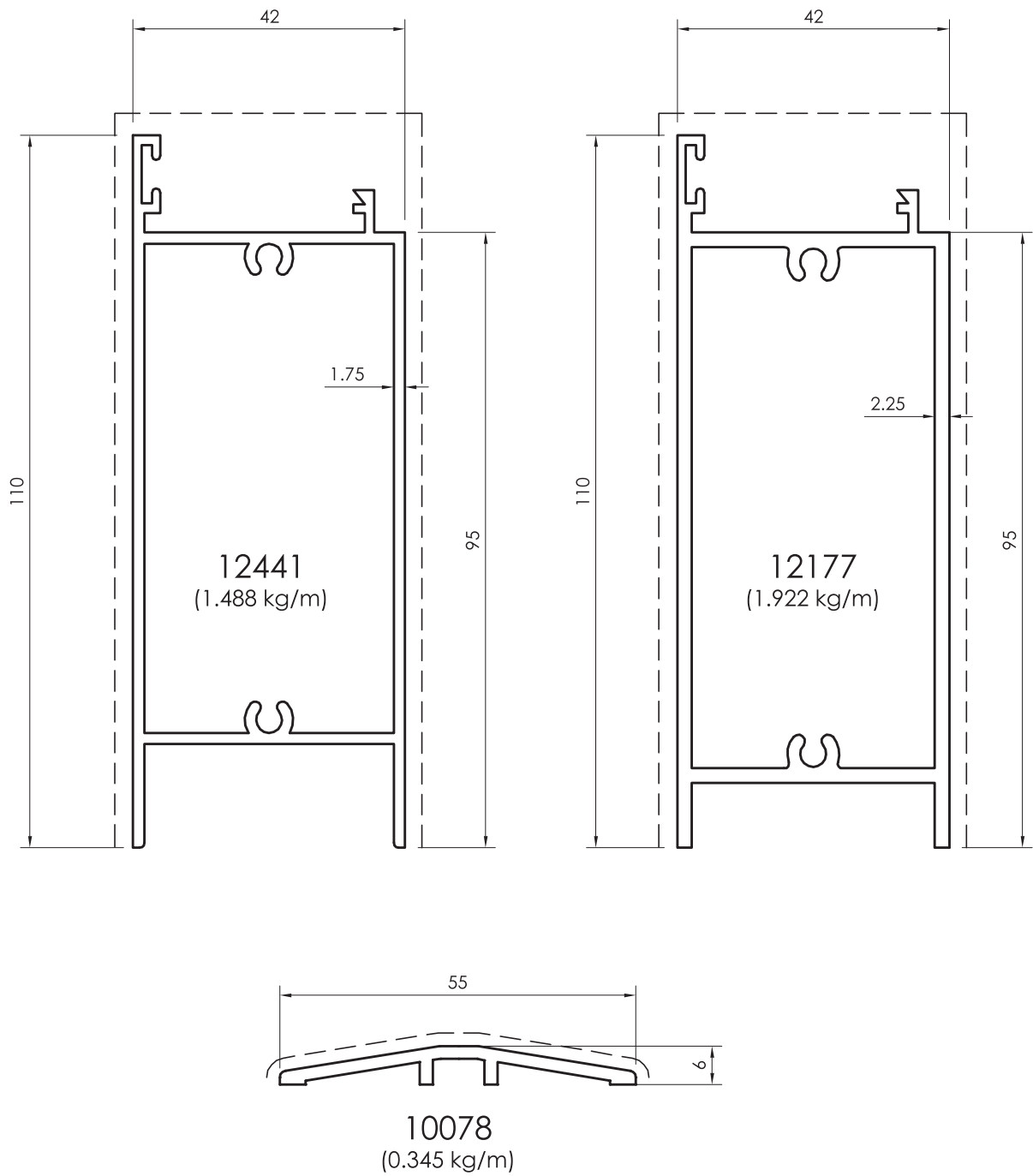
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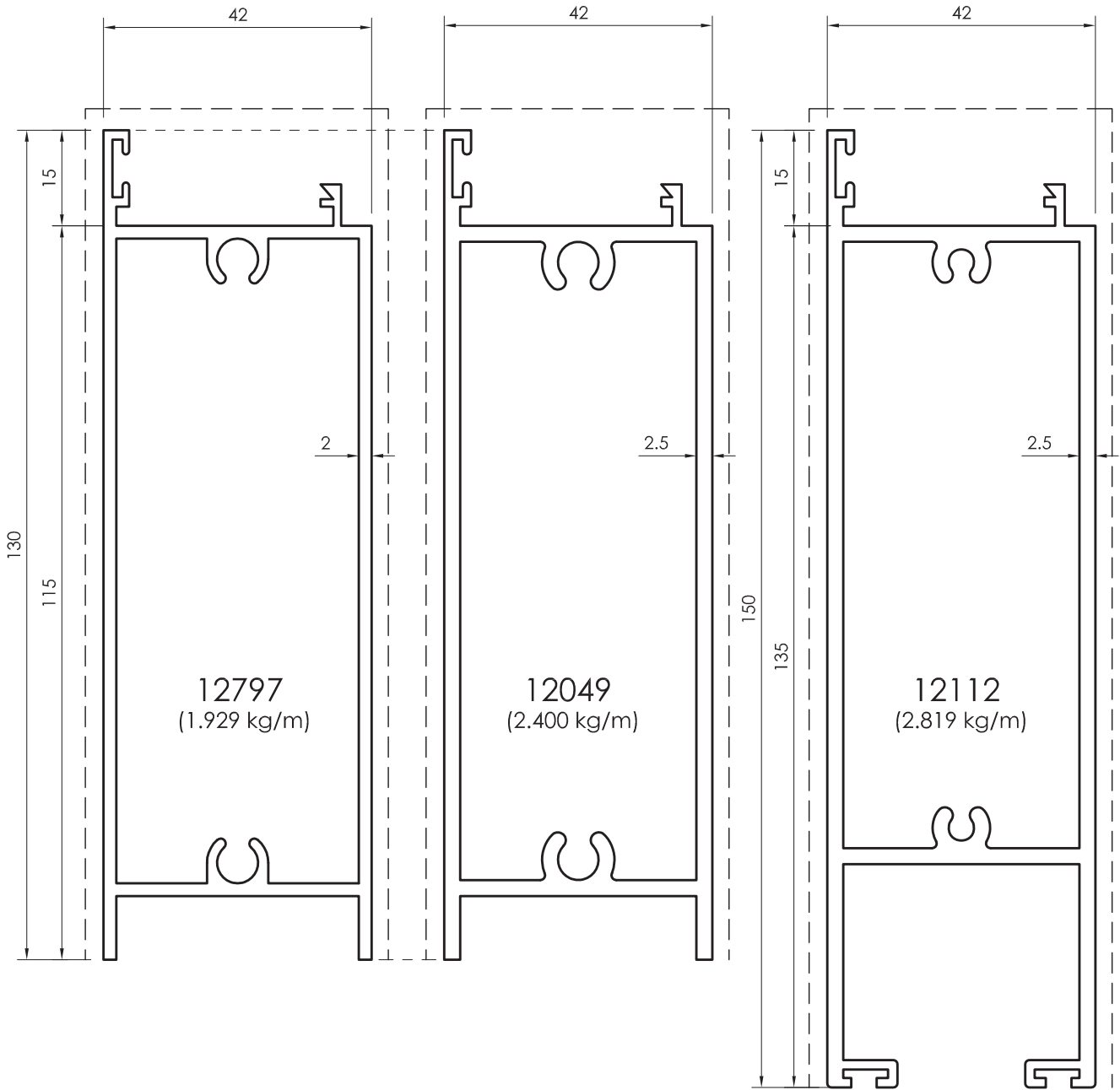
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Bottom Frame Profiles



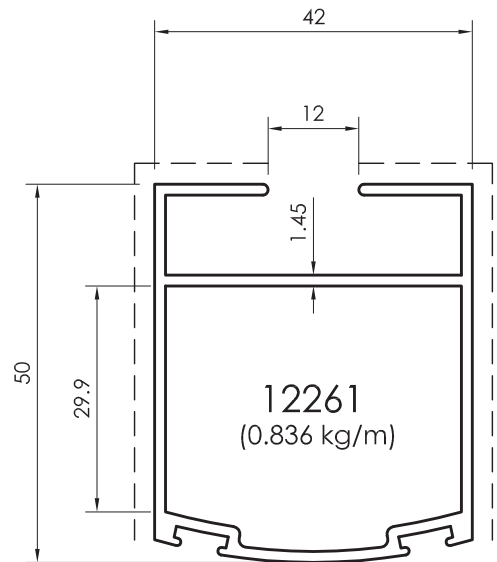
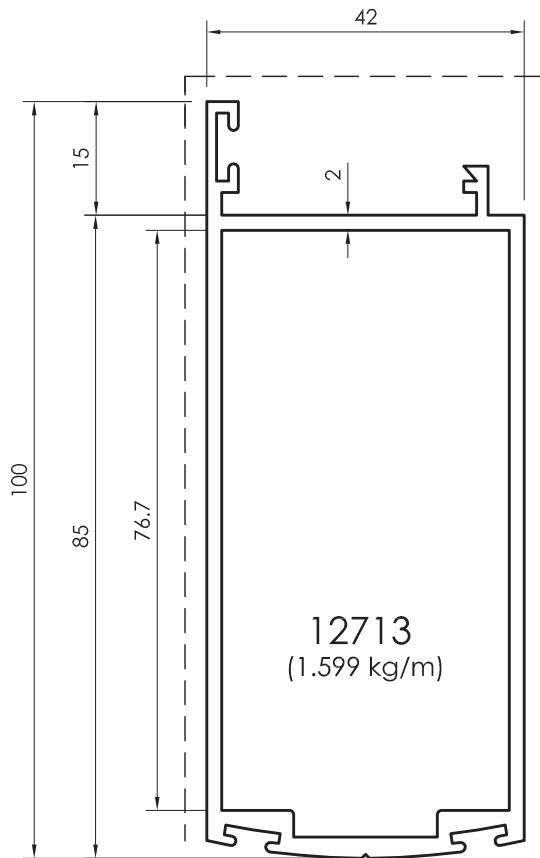
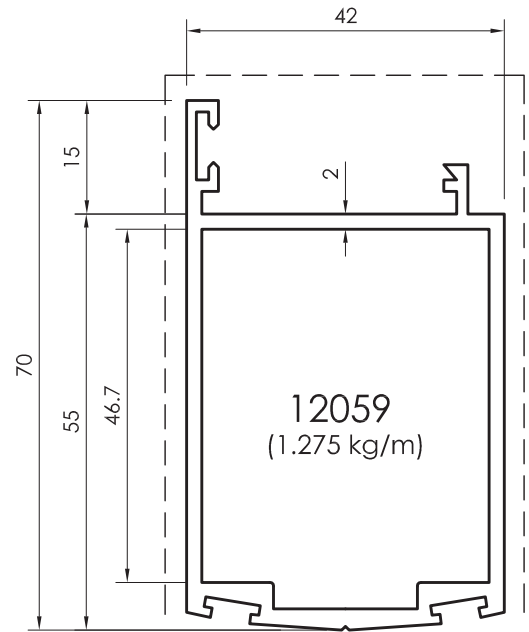
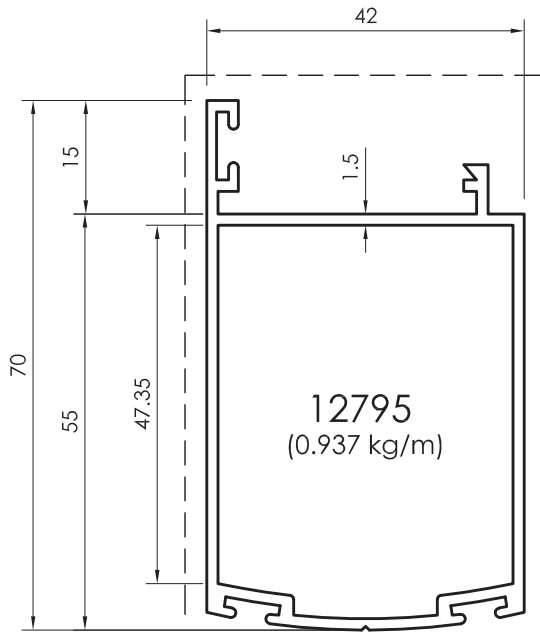
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Bottom Frame Profiles



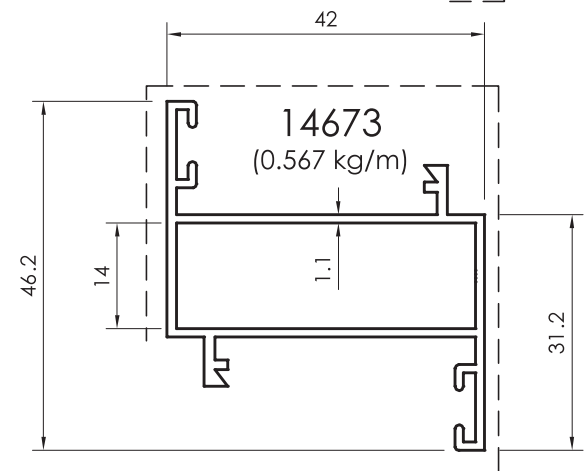
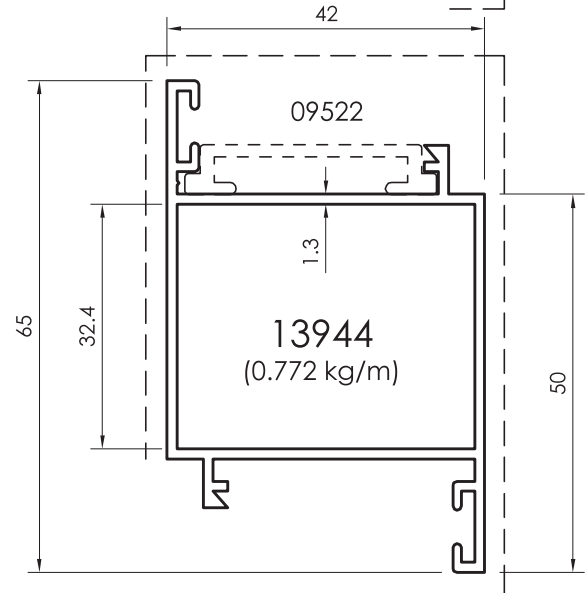
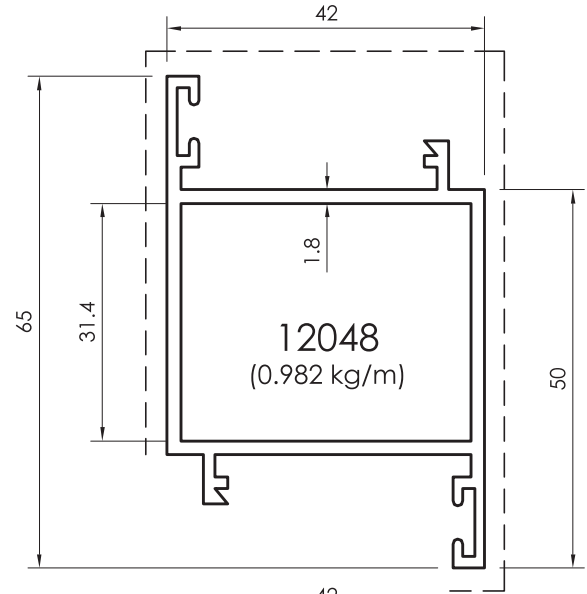
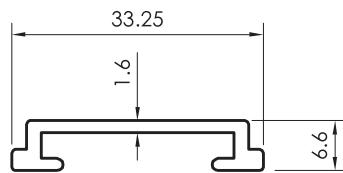
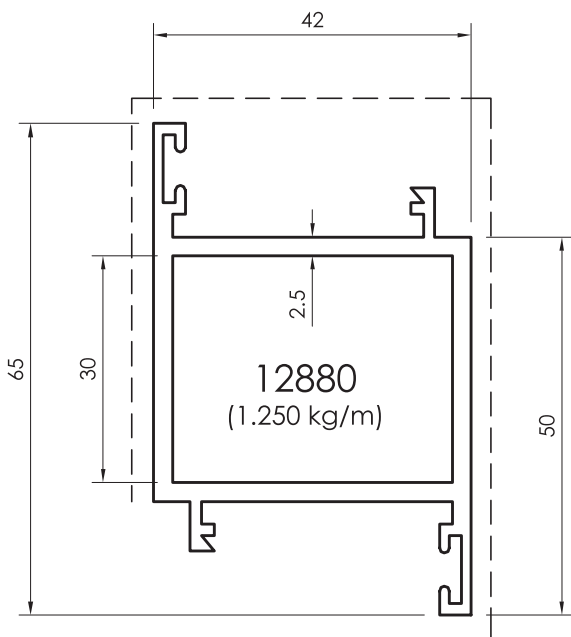
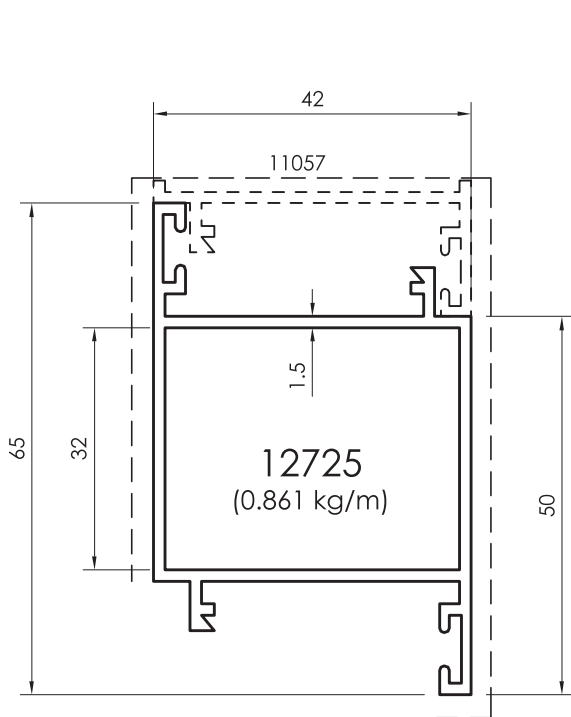
All dimensions in mm
 ----- Visible area

Swing Door Profiles



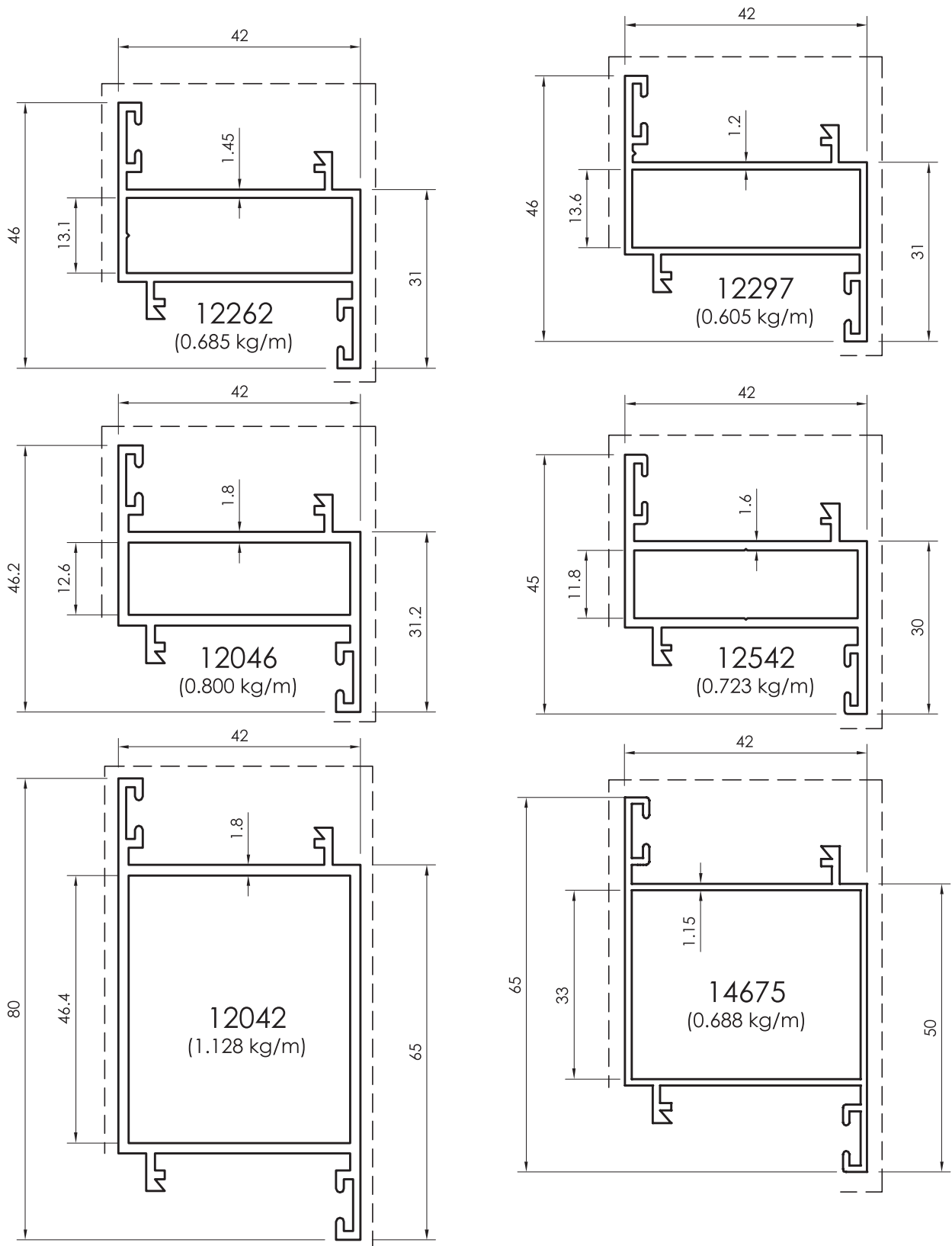
All dimensions in mm
Visible area_____

Sash Profiles



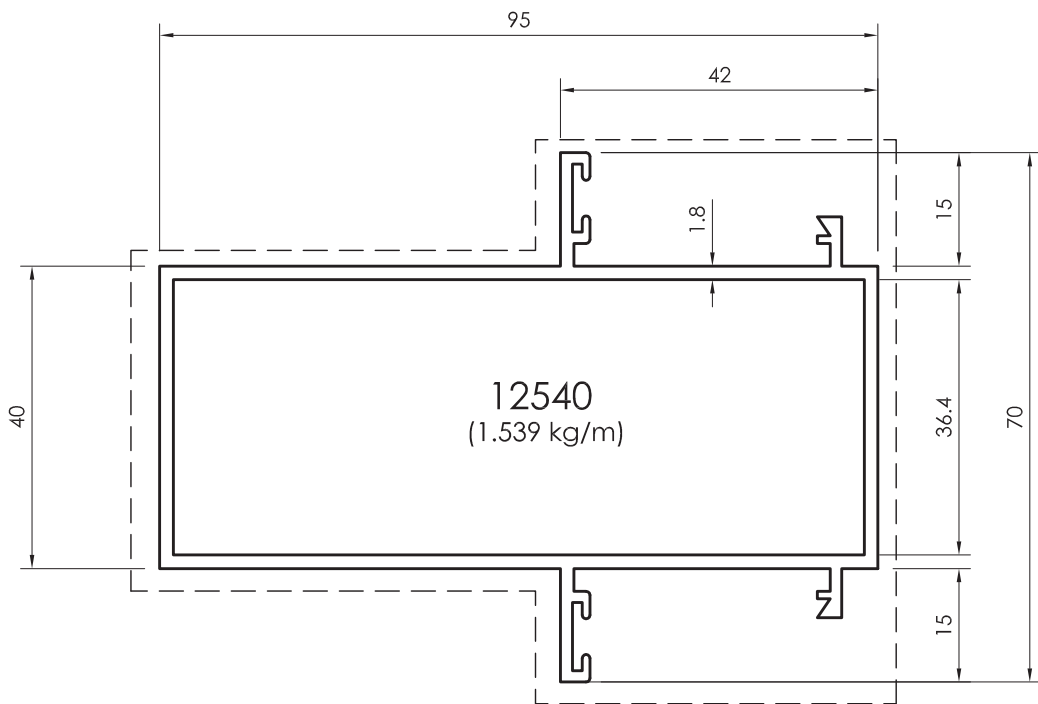
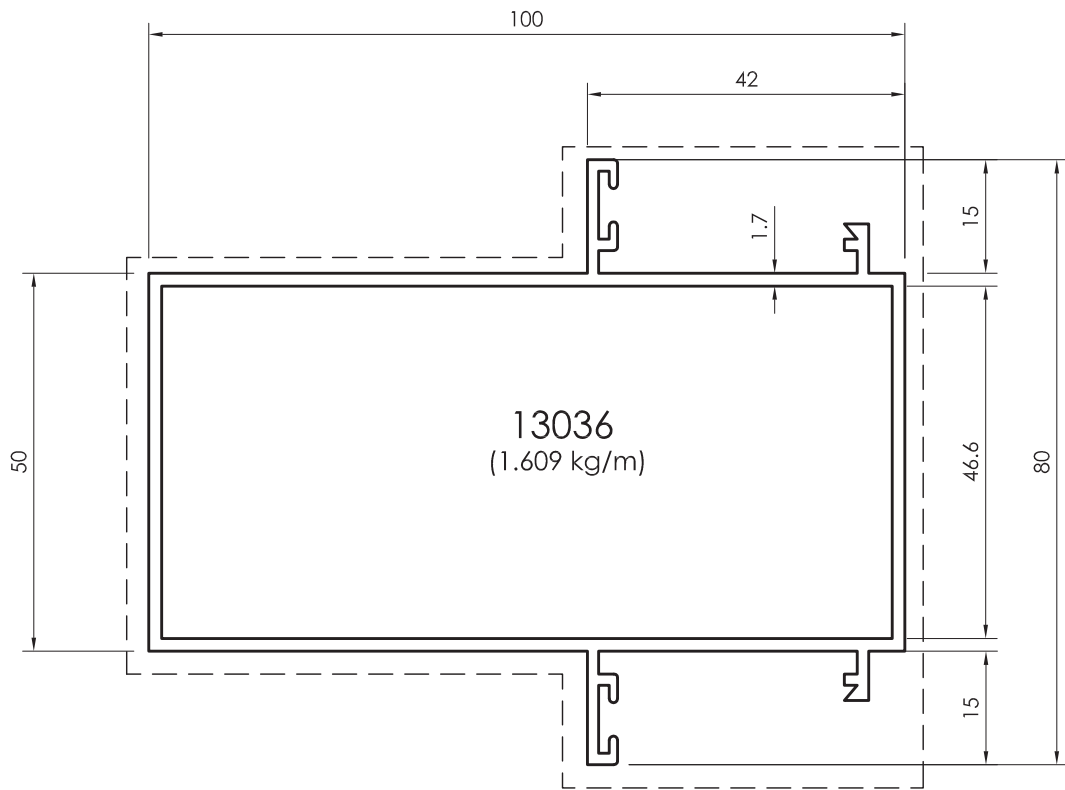
All dimensions in mm
 ----- Visible area

Sash Profiles



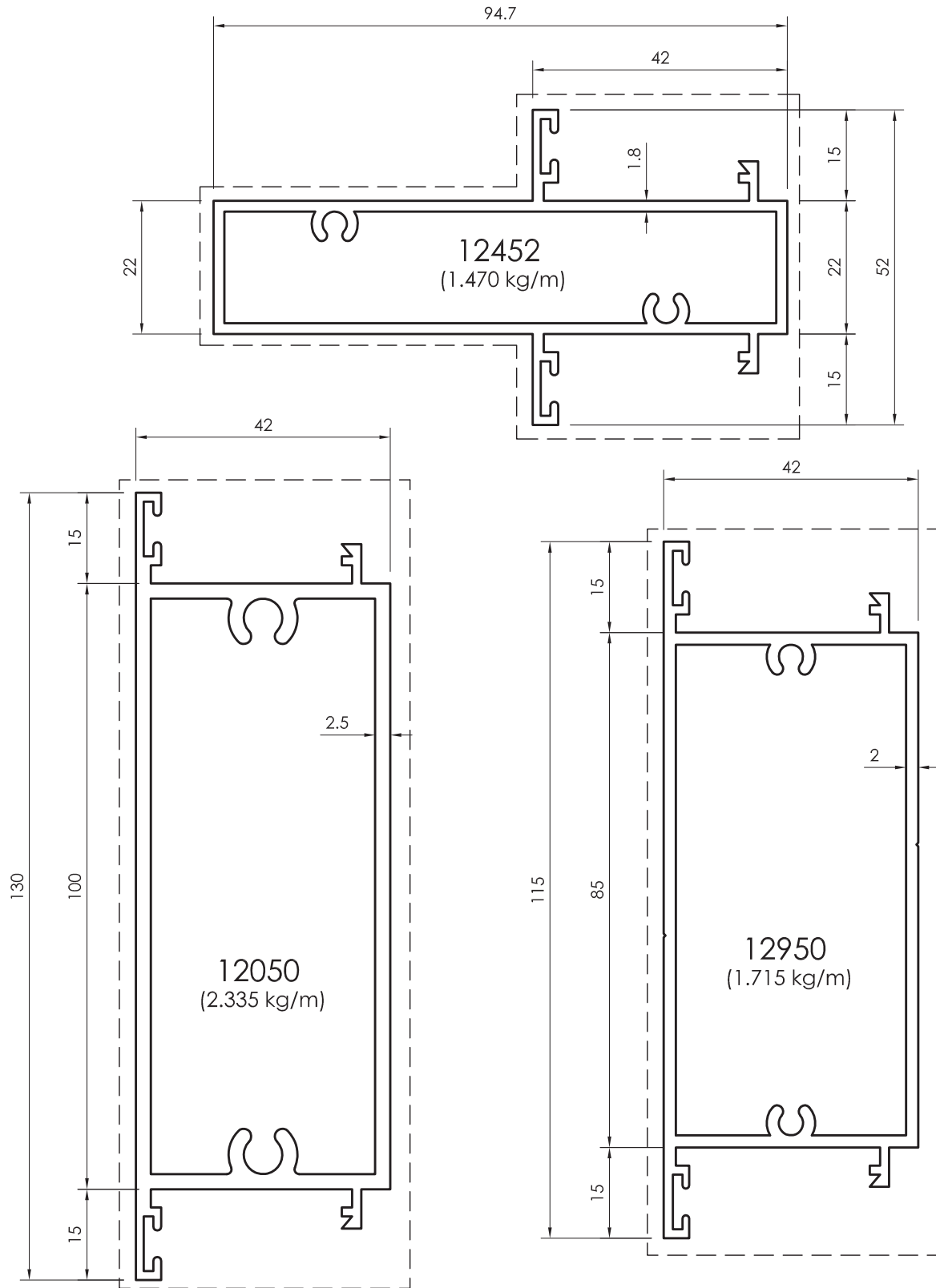
All dimensions in mm
Visible area-----

T-Profiles



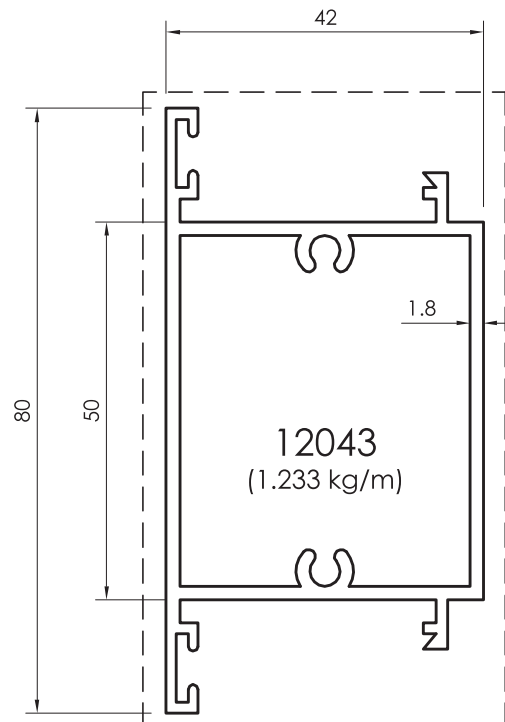
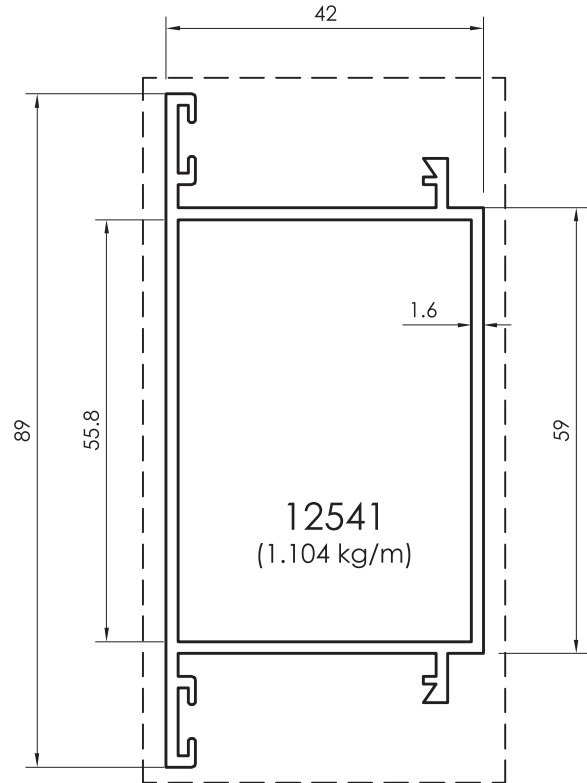
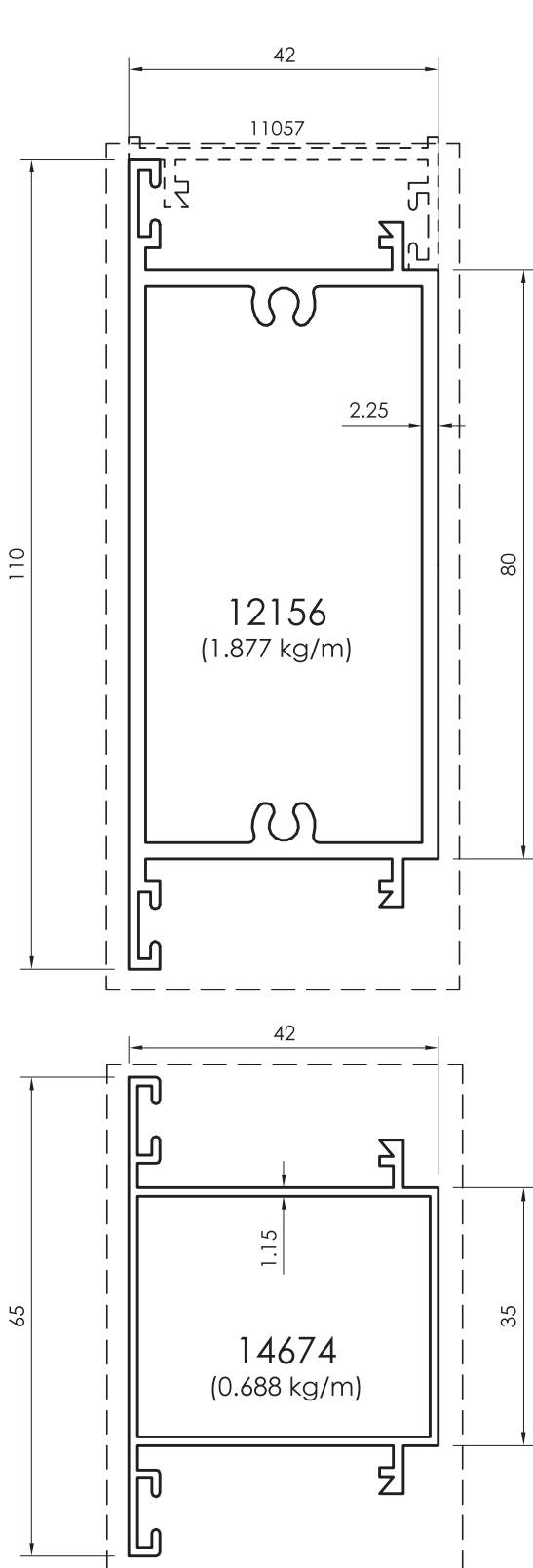
All dimensions in mm
 - - - - - Visible area

T-Profiles



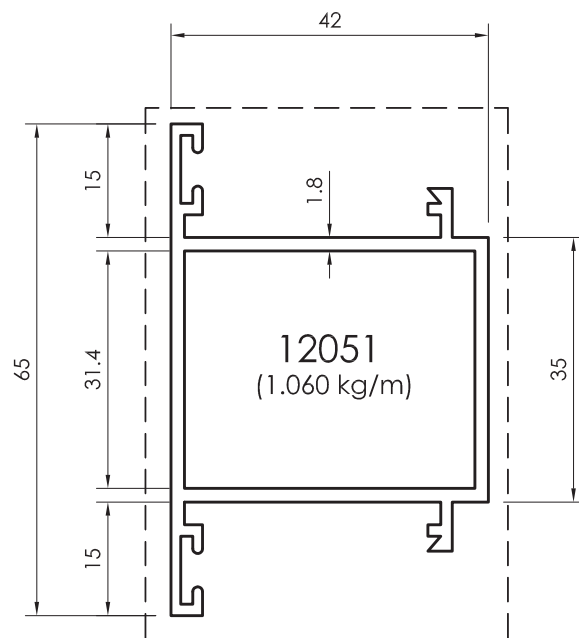
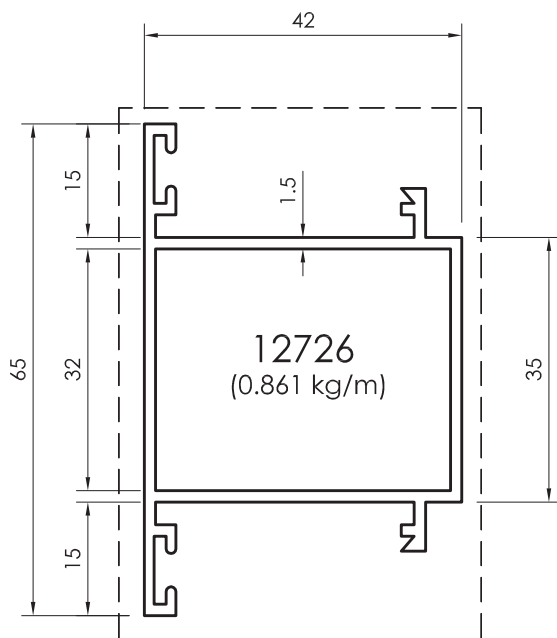
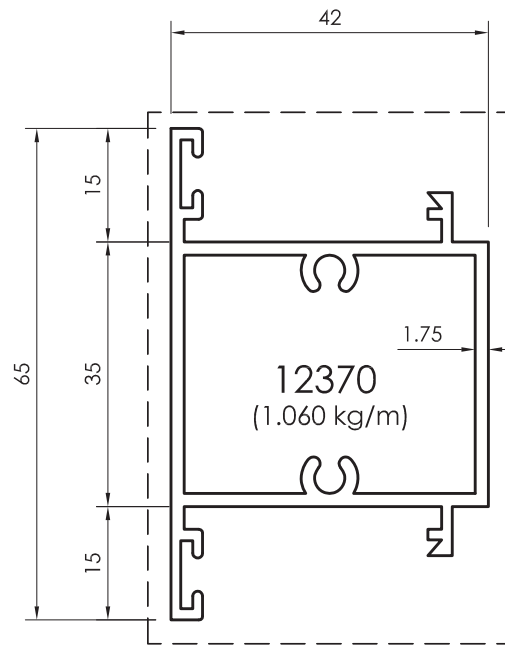
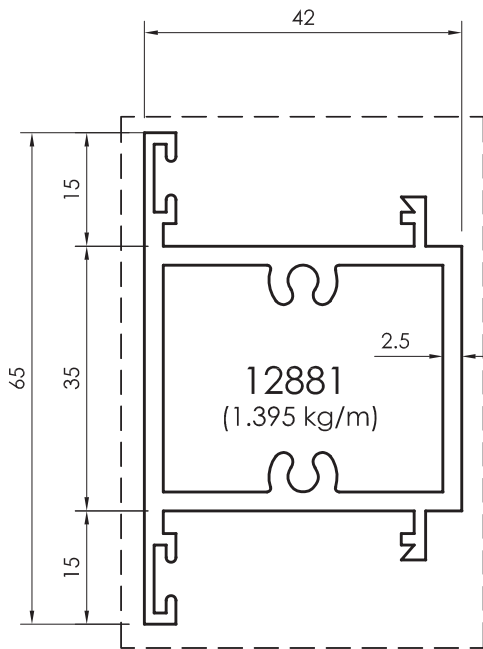
All dimensions in mm
Visible area-----

T-Profiles



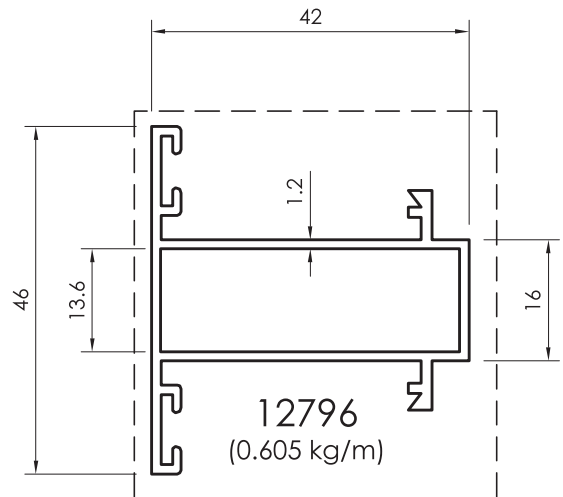
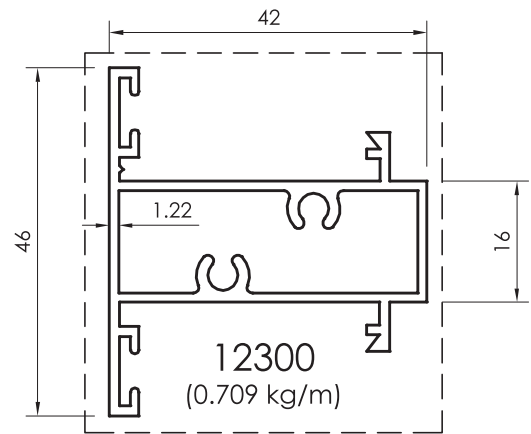
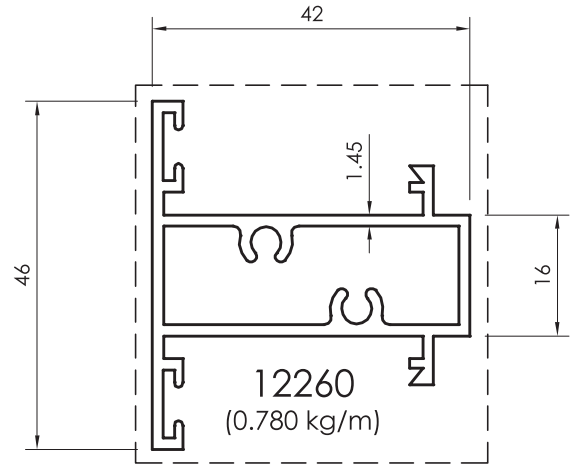
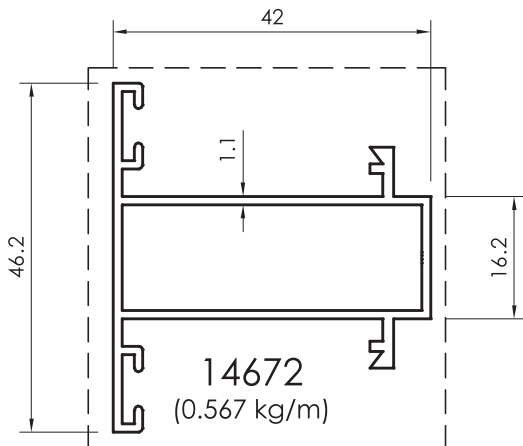
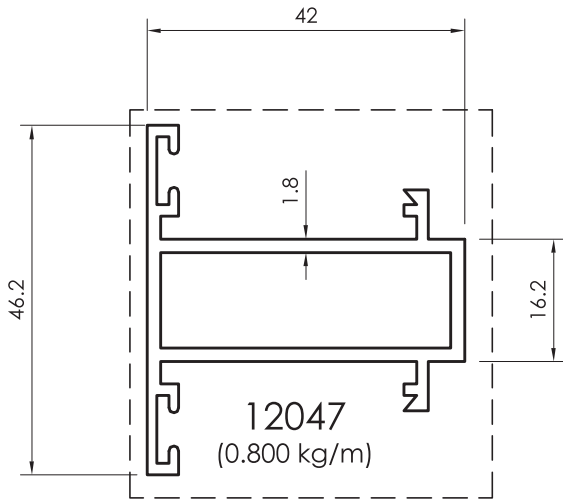
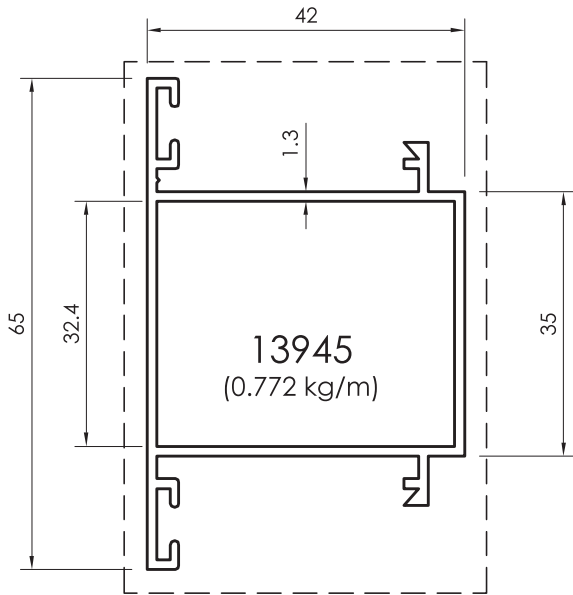
All dimensions in mm
 - - - - - Visible area

Frame Profiles



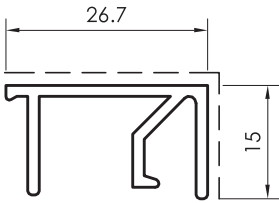
All dimensions in mm
Visible area-----

T-Profiles



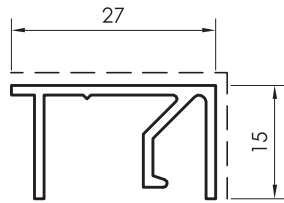
All dimensions in mm
 ----- Visible area

Complementary Profiles



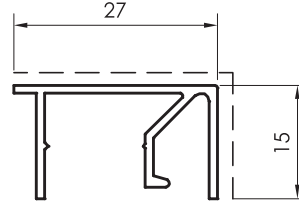
09056
(0.290 kg/m)

FOR 6MM & 8MM GLASS



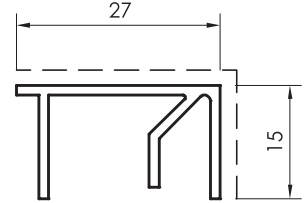
09504
(0.249 kg/m)

FOR 6MM & 8MM GLASS



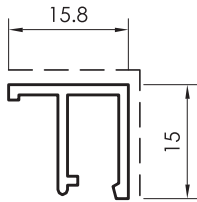
11377
(0.214 kg/m)

FOR 6MM & 8MM GLASS

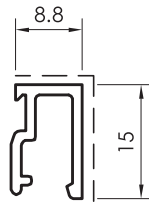


10524
(0.242 kg/m)

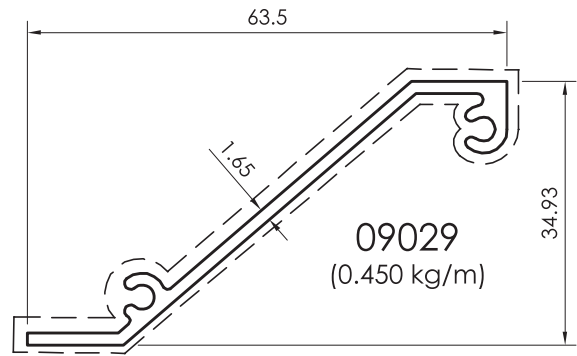
FOR 6MM & 8MM GLASS



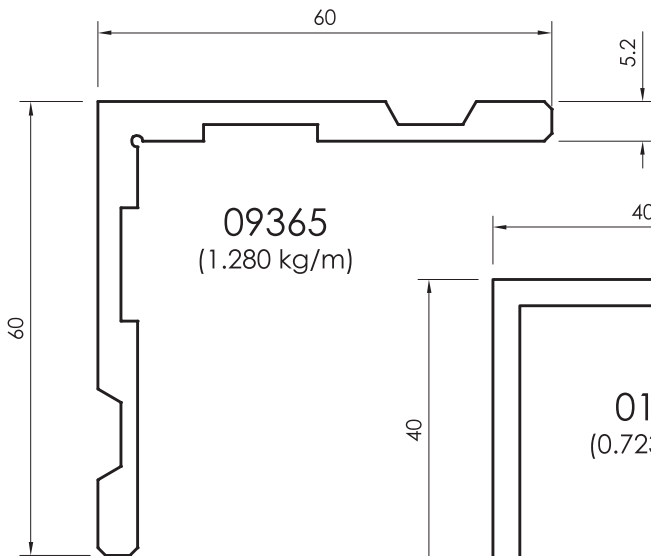
09225
(0.165 kg/m)
FOR 18MM GLASS



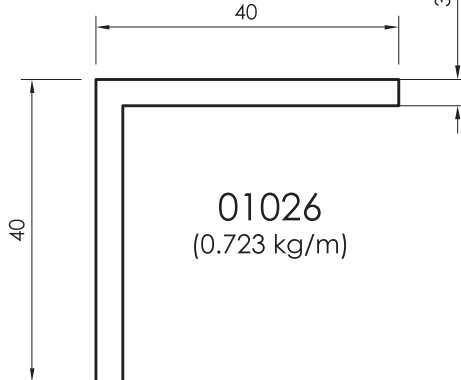
11358
(0.138 kg/m)
FOR 24MM GLASS



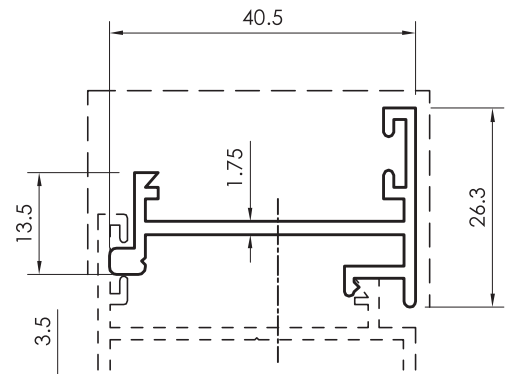
09029
(0.450 kg/m)



09365
(1.280 kg/m)



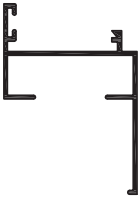
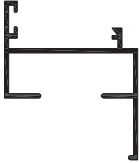


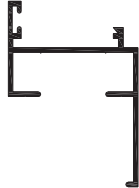


01026
(0.723 kg/m)

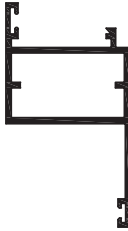
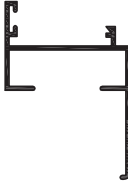







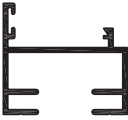

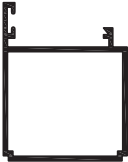
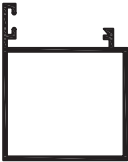

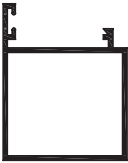
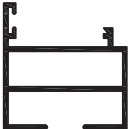
09269
(0.445 kg/m)
REVERSE

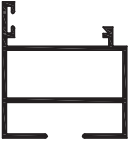
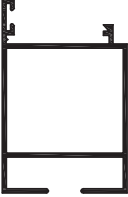
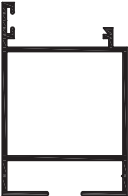
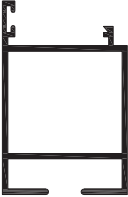



All dimensions in mm
Visible area-----


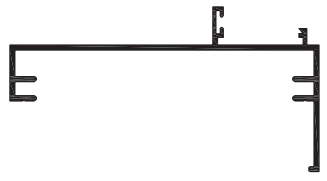
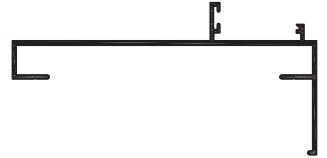
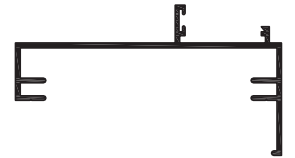
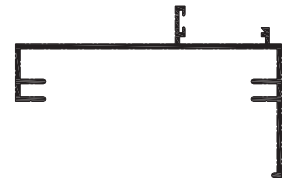

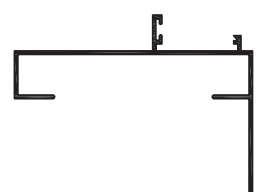
PROFILE LIST

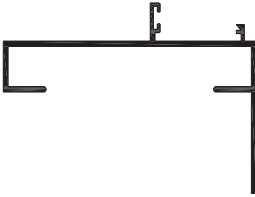
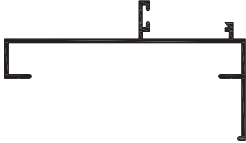
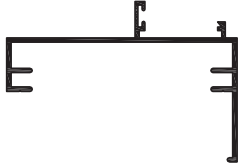
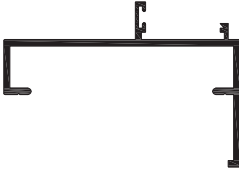
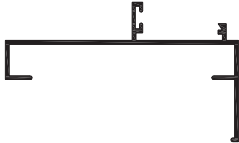
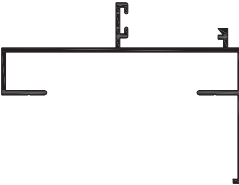
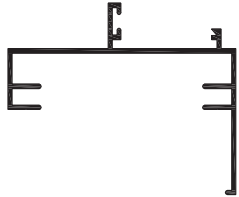
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
09861		12	0.503	5.548	3.709	2.405	1.002
10622		13	0.509	5.490	2.431	2.525	0.841
09503		13	0.523	5.562	1.871	2.633	0.736
10613		12	0.590	3.417	6.405	1.052	2.860
10163		12	0.615	6.720	4.650	2.90	1.279
09210		12	0.720	7.560	5.209	3.216	1.453
09054		13	0.829	8.824	5.658	3.939	1.642

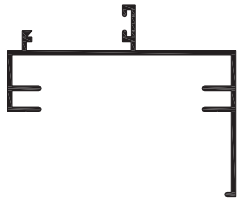
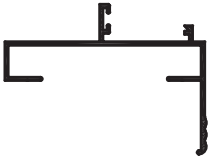

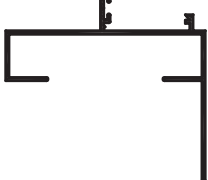
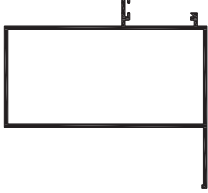
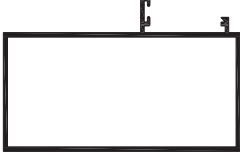
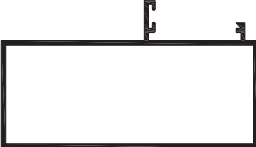
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
13351		13	1.009	11.761	10.203	2.621	4.415
10250		14	0.554	6.174	4.472	2.591	1.247
10912		14	0.446	1.578	4.290	0.628	1.720
21408		15	0.432	1.072	4.324	0.620	1.818
10230		15	0.485	4.781	1.160	2.031	0.659
10180		14	0.525	4.906	1.375	2.101	0.740
09057		14	0.525	5.237	1.277	2.235	0.702




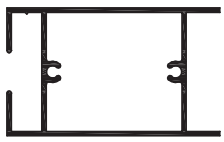
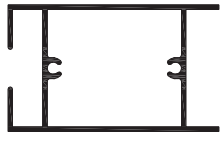


Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
09912		14	0.670	6.674	2.621	2.909	1.192
11057		14	0.310	0.254	2.528	0.200	1.018
12440		25	0.753	7.677	8.122	3.384	2.720
14488		25	0.666	6.850	7.189	3.014	2.456
12535		25	0.692	7.104	7.471	3.121	2.557
12885		25	0.757	7.730	8.076	3.406	2.742
12933		25	0.763	7.219	3.970	3.189	1.609







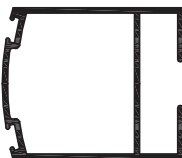
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
12352		25	0.715	4.524	6.856	1.713	3.028
12298		26	0.864	12.990	8.900	3.566	3.988
12259		26	0.934	14.007	9.625	3.829	4.309
12159		26	1.135	11.391	16.290	5.145	4.394
13294		26	1.226	12.367	17.195	5.593	4.650
12044		24	1.015	9.999	7.274	4.490	2.561
11173		16	0.689	1.167	2.478	0.684	5.054

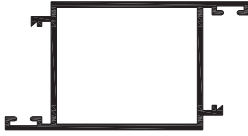
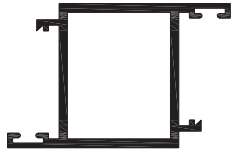
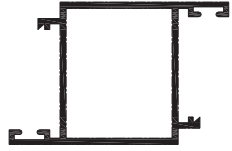
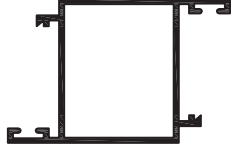
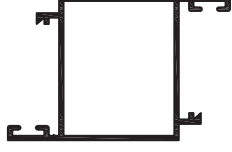
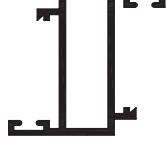
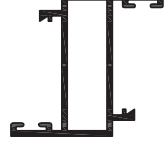
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
10772		19	0.782	1.301	33.479	0.740	6.309
09157		22	1.369	8.821	101.0	2.121	14.184
10373		22	1.043	5.053	67.501	1.289	9.547
09911		21	1.153	6.50	64.673	1.801	10.751
21046		21	1.196	9.073	67.462	2.111	10.945
10266		19	0.867	4.887	4.026	1.277	6.710
09515		20	0.970	9.454	46.954	1.90	7.731

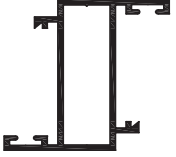
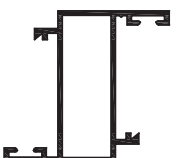
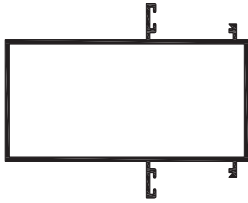
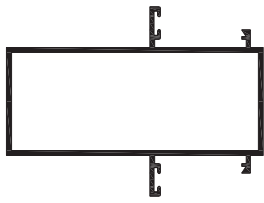
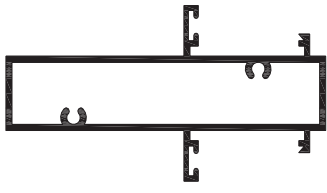


Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
10838		20	1.236	11.907	60.118	2.427	10.049
11656		19	0.783	3.628	32.206	1.048	5.712
09053		18	1.116	8.170	50.654	1.962	9.083
10310		18	1.362	10.644	60.339	2.581	10.746
11693		16	0.736	3.393	28.307	0.978	5.206
10425		16	0.704	4.298	21.097	1.134	4.418
09907		15	0.808	5.592	23.069	1.422	5.274




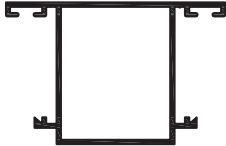
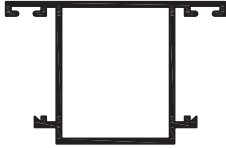
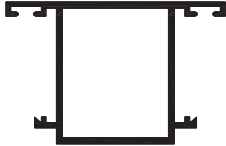
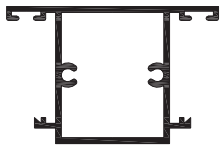
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
09906		15	0.808	5.592	23.745	1.422	5.716
11026		17	0.717	4.696	21.605	1.256	4.469
10251		17	0.857	10.169	27.064	2.133	5.468
09555		17	0.827	8.429	25.628	1.721	5.282
14637		23	1.619	36.601	80.212	6.771	14.356
13035		23	1.477	27.276	69.480	7.337	13.431
12893		24	1.340	16.482	53.828	5.091	10.948

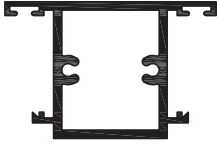
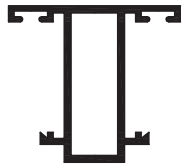
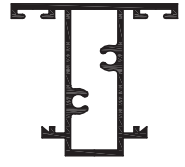
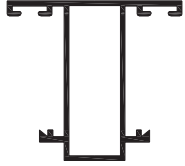



Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
13569		24	2.745	22.790	339.765	5.928	35.774
13610		27	1.587	17.706	100.761	8.431	16.793
12266		27	1.798	19.444	95.408	9.259	17.268
12302		27	1.028	19.352	10.324	5.052	4.913
12263		27	1.083	10.833	20.248	5.158	5.289
12112		29	2.819	31.041	211.815	14.438	27.478
12049		29	2.400	26.384	149.035	12.229	22.134






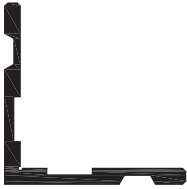

Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
12797		29	1.929	21.893	121.231	10.094	18.152
12177		28	1.922	20.570	80.988	9.471	14.208
12441		28	1.488	16.737	62.108	7.654	11.246
12713		30	1.599	17.289	62.562	7.916	11.310
12059		30	1.275	12.370	22.569	5.607	5.659
12795		30	0.937	9.992	18.139	4.477	47.246
12261		30	0.836	8.196	9.469	3.903	3.717


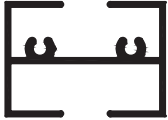

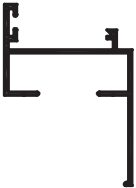
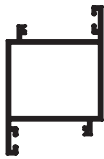
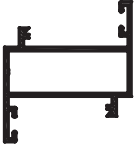

Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
12042		32	1.128	12.259	21.866	5.837	5.466
12880		31	1.250	12.378	12.787	5.894	3.934
12048		31	0.982	10.076	11.053	4.798	3.40
12725		31	0.861	10.249	9.008	3.153	4.290
13944		31	0.772	9.370	8.117	2.882	3.864
12046		32	0.800	7.340	3.193	3.495	1.382
12542		32	0.723	6.820	2.824	3.247	1.255


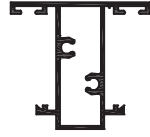


Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
12262		32	0.685	2.934	6.496	1.276	3.091
12297		32	0.605	2.708	5.806	1.177	2.762
13036		33	1.609	32.721	72.074	8.180	13.533
12540		33	1.539	20.956	58.755	5.987	11.675
12452		34	1.470	7.129	47.189	2.247	9.363
12050		34	2.335	25.080	134.435	11.308	20.682
12950		34	1.715	18.715	77.472	8.284	13.473

Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
12156		35	1.877	19.491	73.359	8.677	13.338
12541		35	1.104	12.341	28.731	5.285	6.456
12043		35	1.233	12.087	23.482	5.236	5.870
13945		37	0.772	9.370	7.858	2.882	3.271
12726		36	0.861	10.249	8.748	3.153	3.667
12051		36	1.060	9.830	11.053	4.164	3.40
12370		36	1.060	9.672	11.536	4.125	3.549








Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
12881		36	1.395	19.491	5.507	8.677	13.338
12047		37	0.800	3.193	0.528	1.382	2.907
12260		37	0.780	3.008	1.070	1.308	2.611
12796		37	0.605	2.711	0.731	1.179	2.230
09269		32	0.445	3.451	73.359	1.404	3.485
09522		31	0.234	0.041	7.037	0.103	0.685
09504		38	0.249	0.202	6.330	0.204	0.472



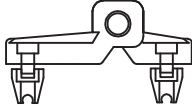

Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
09056		38	0.290	0.217	0.796	0.219	0.523
09225		38	0.165	0.138	0.123	0.147	0.125
11358		38	0.138	0.111	0.060	0.130	0.122
09029		38	0.450	6.240	2.435	1.772	1.309
10078		38	0.345	--	--	--	--
09365		38	1.280	--	--	--	--
01026		38	0.723	--	--	--	--

Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
09556		27	0.655	2.139	5.910	1.395	2.814
09869		27	0.584	1.796	5.138	1.166	2.445
21494		20	0.720	4.150	33.012	1.074	5.471
21008		13	0.467	3.431	5.190	0.919	2.288
14675		32	0.688	8.574	7.298	2.638	3.475
14673		31	0.567	2.593	5.552	1.122	2.643
14674		35	0.688	7.084	8.574	2.964	2.638

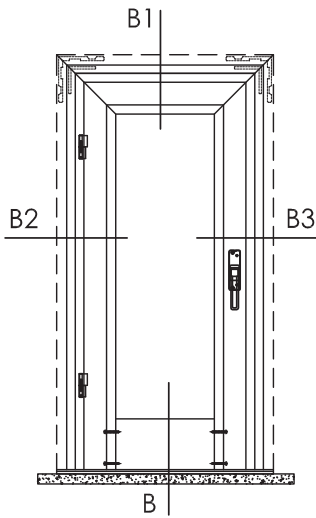
Profile Reference	Profile Section	Page	Weight KG/M	IX cm ⁴	IY cm ⁴	WX cm ³	WY cm ³
14672		37	0.567	5.298	2.593	2.165	1.122
12300		37	0.709	5.737	2.802	2.370	1.218
10524		38	0.242	--	--	--	--
11377		39	0.214	--	--	--	--

ACCESSORIES

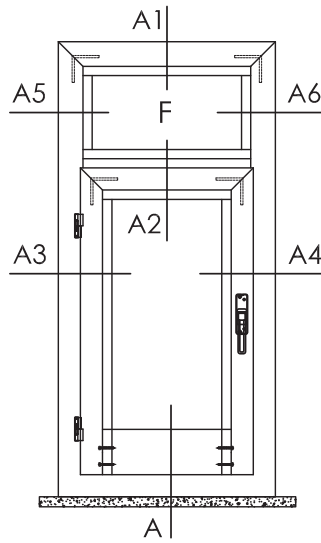
Gasket / Accessories Reference	Section	Description	Unit
GE-G-007		FRONT GLAZING GASKET USED WITH THE FRAME & SASH PROFILE	Linear Meter
GE-G-010		GLAZING BEAD GASKET	Linear Meter
GE-1-42		FRAME & SASH GASKET	Linear Meter
BRUSH-4MM		4.0 MM NORMAL BRUSH FOR SWING DOOR	Linear Meter
SCR-60		B 4.8 X 60 - DIN 7981-A2	Pieces
SCR-45		B 4.2 X 45 - DIN 7981-A2	Pieces
SCR-32		B 4.2 X 32 - DIN 7981-A2	Pieces

Gasket / Accessories Reference	Section	Description	Unit
SUC-42		DRAINAGE VALVE	Pieces
SUP-42		DEFLECTOR	Pieces
HI-42		HINGE	Pieces
HA-42		HANDLE	Pieces

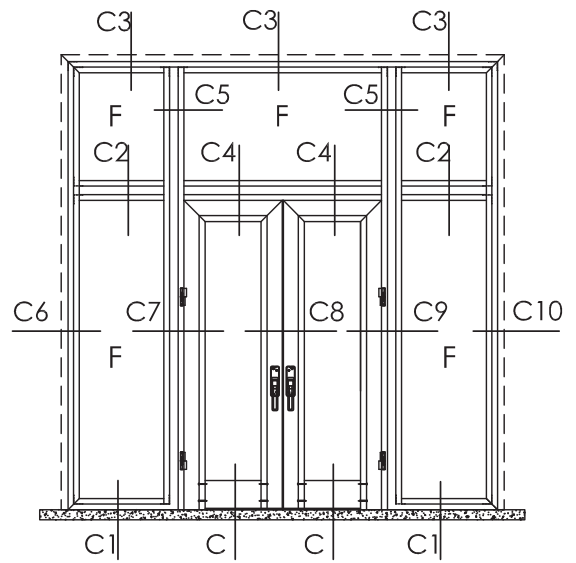
ASSEMBLY DRAWINGS



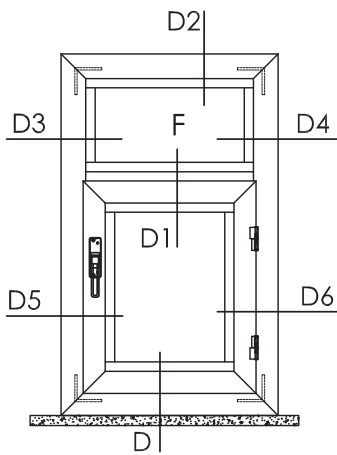
Single Leaf Hinged Door
(Outward Opening)



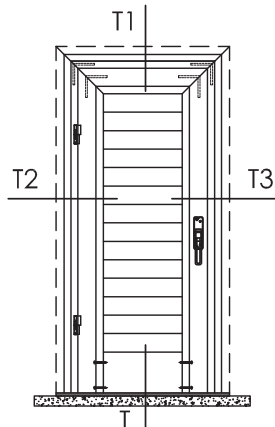
Single Leaf Hinged Door
With Top Fixed Panel
(Inward Opening)



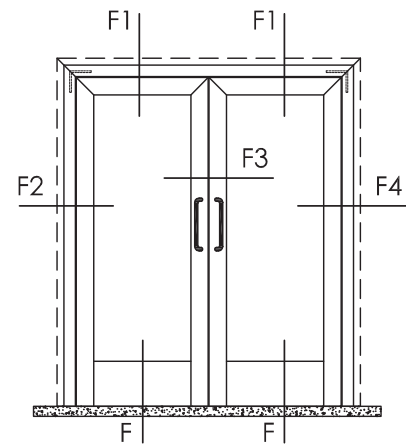
Double Leaf Hinged Door
With Top & Side Fixed Panel
(Inward Opening)



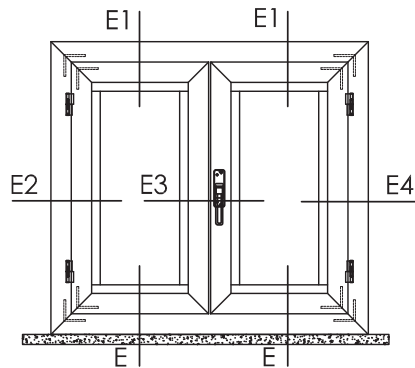
Single Leaf Hinged Window
With Top Fixed Panel
(Outward Opening)



Single Leaf Louver Door
(Outward Opening)

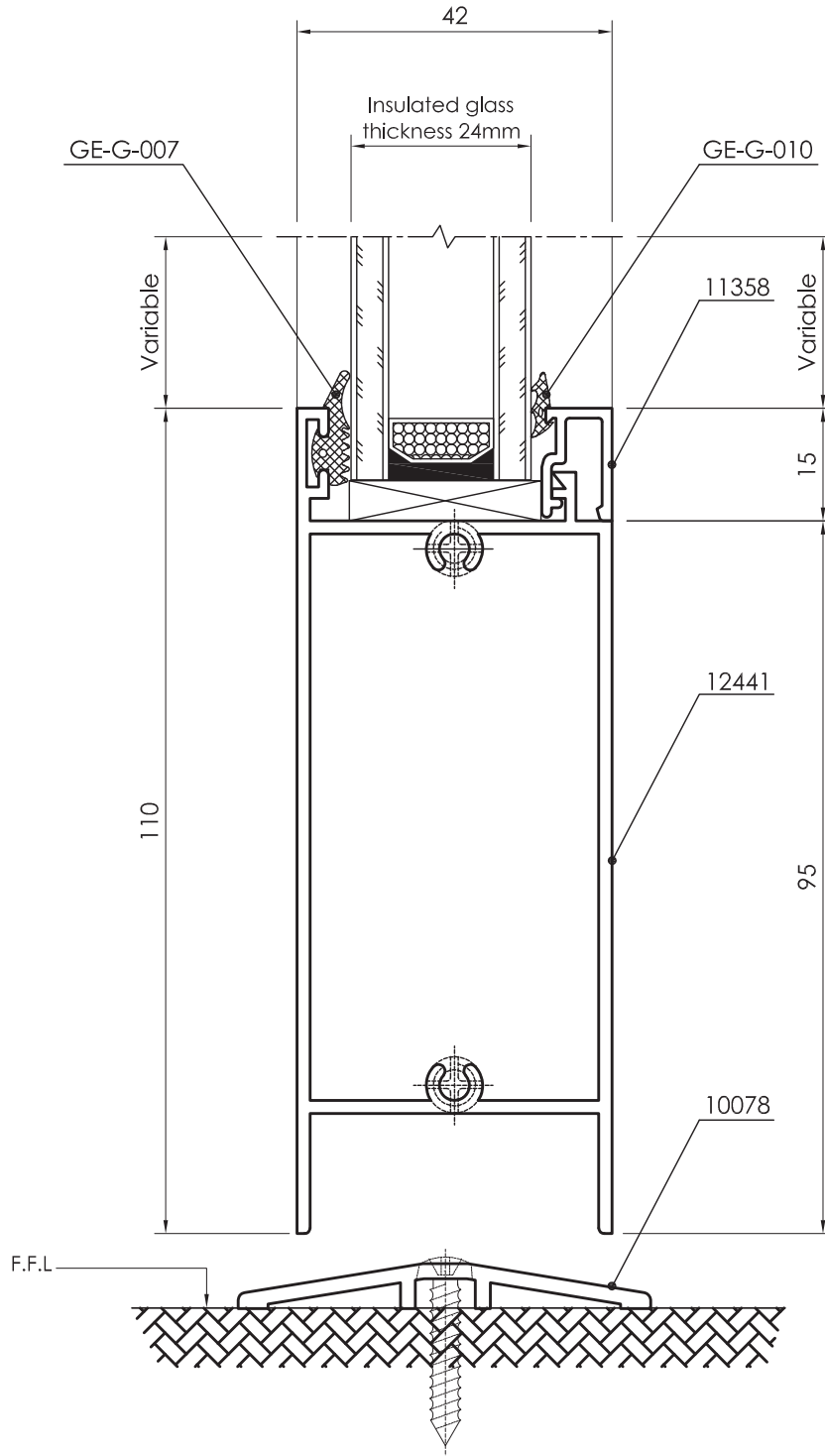


Double Leaf Swing Door

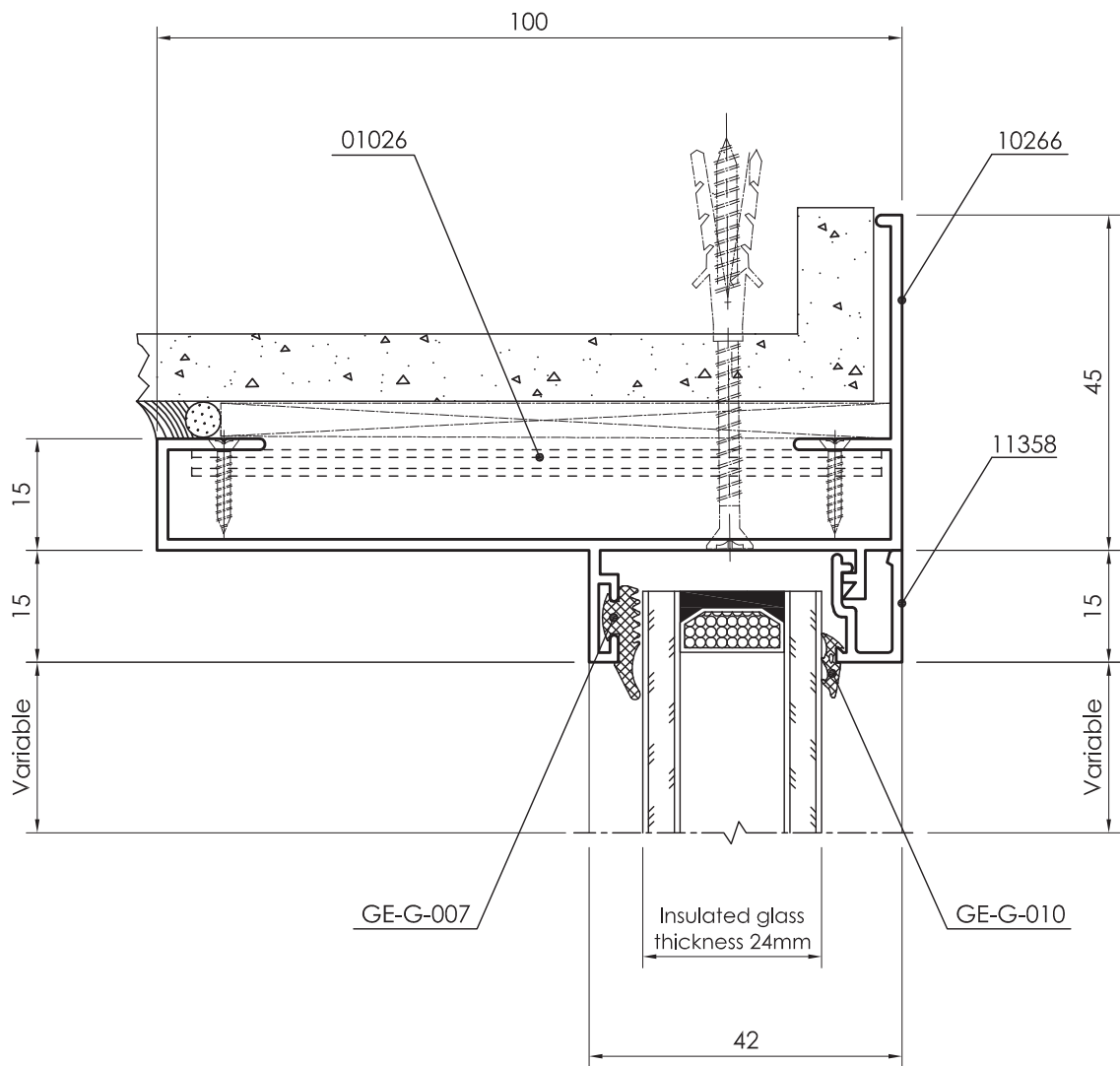


Double Leaf Hinged Window
(Inward Opening)

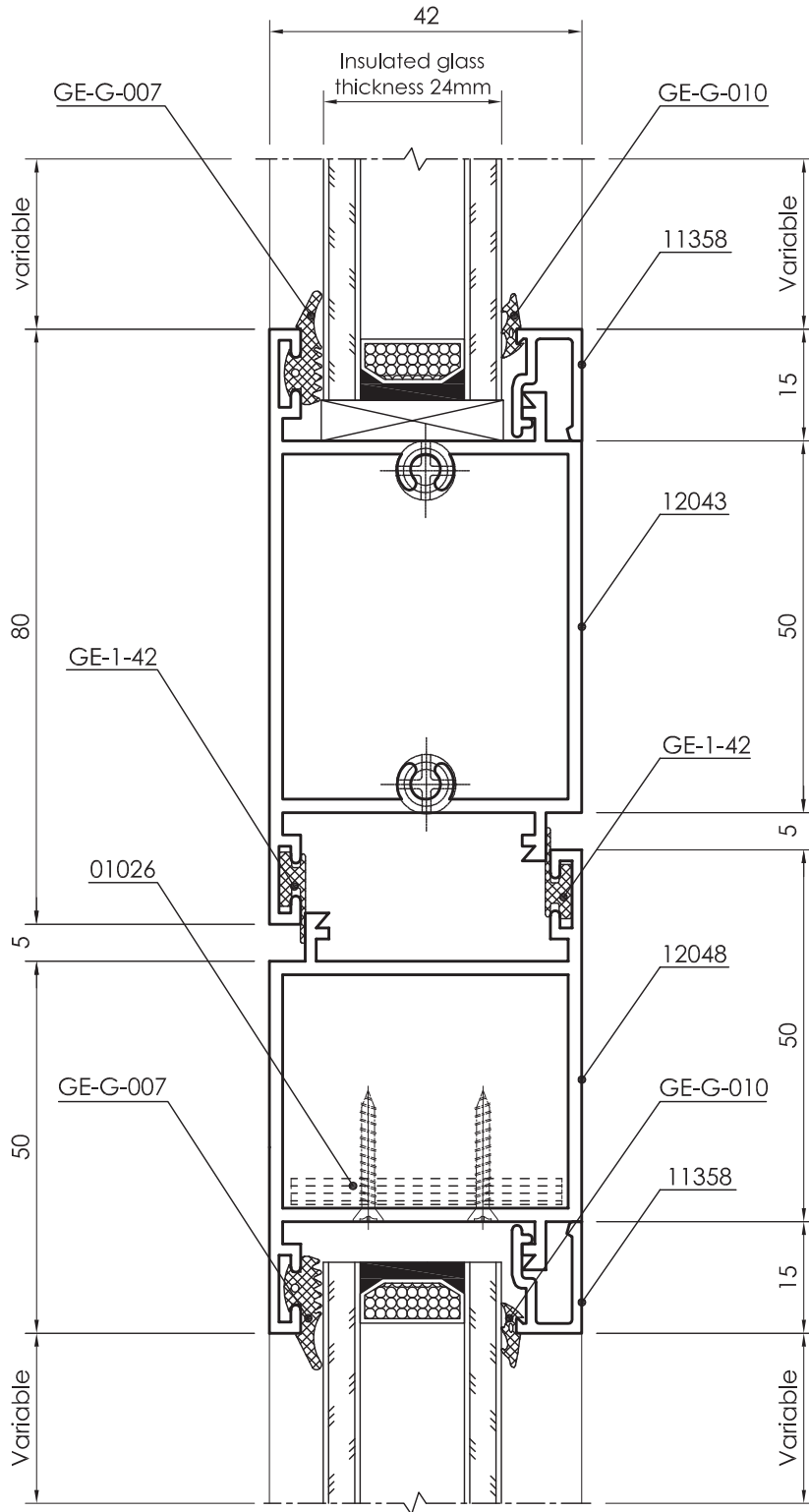
Bottom Door Section - Inward Opening
Detail - A



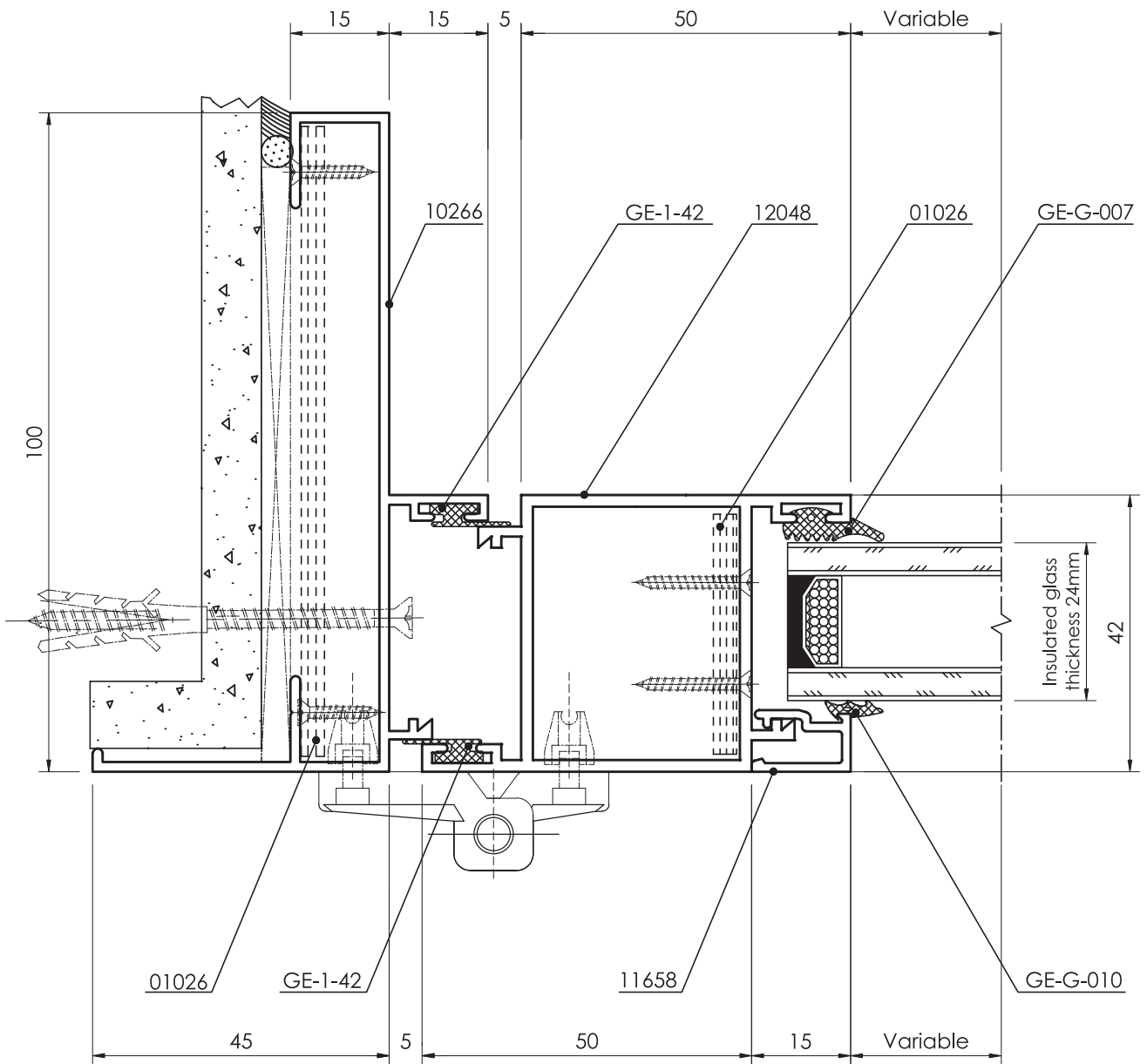
Top Fixed Door Section
Detail - A1



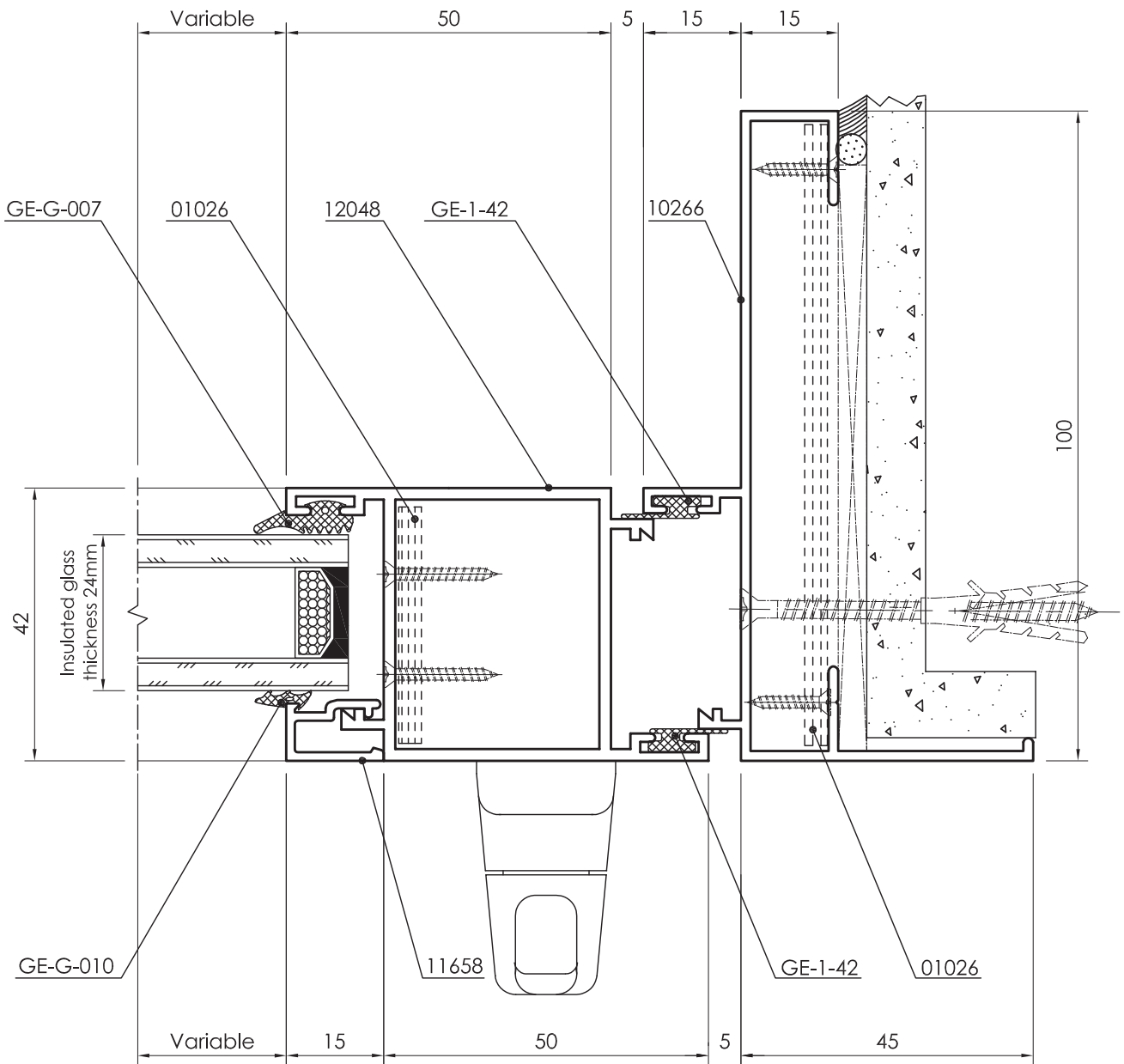
Top Fixed / Opening Door Section-Inward Opening
Detail - A2



Left Side Door Section-Inward Opening
Detail - A3

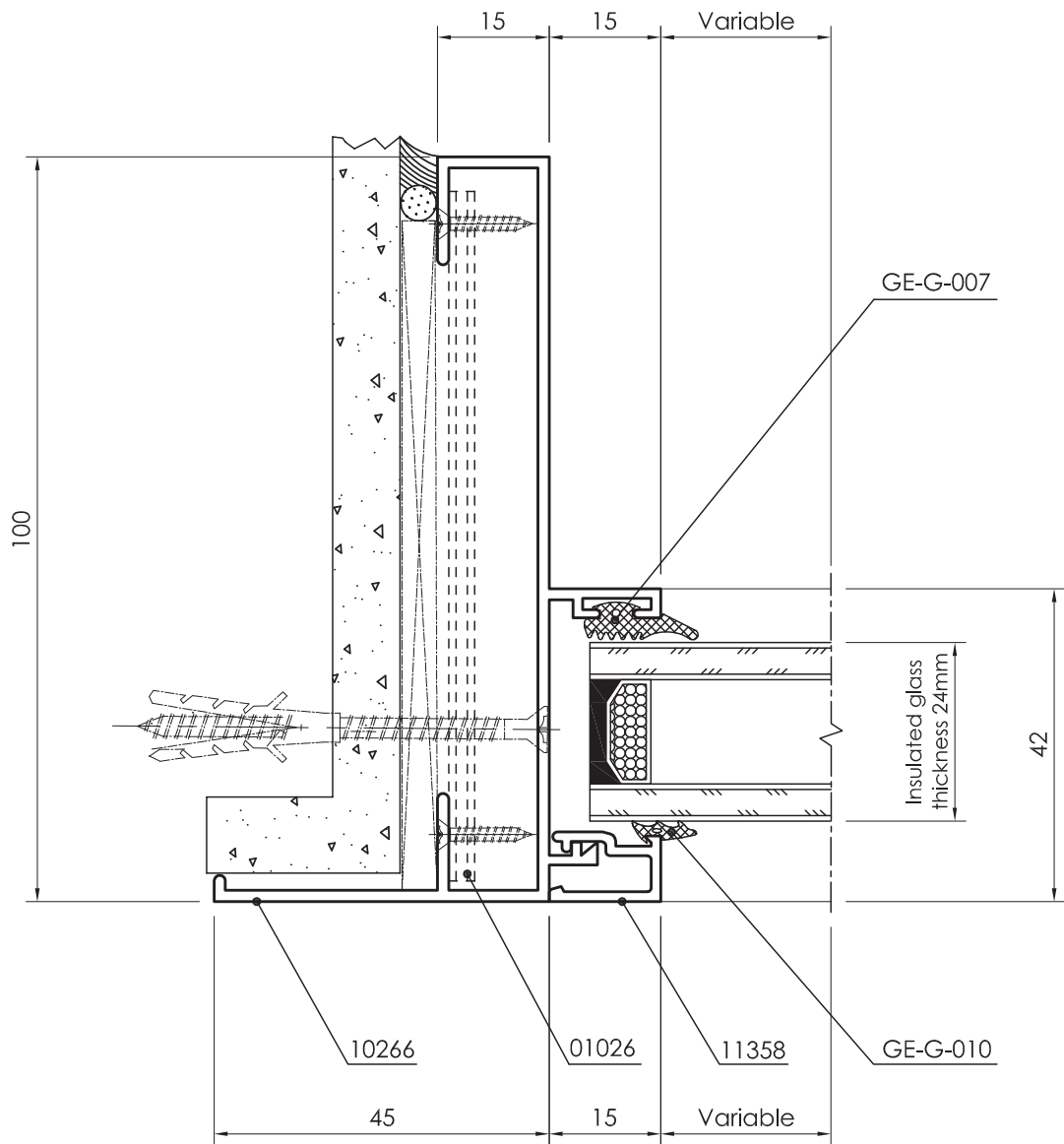


Right Side Door Section-Inward Opening
Detail - A4



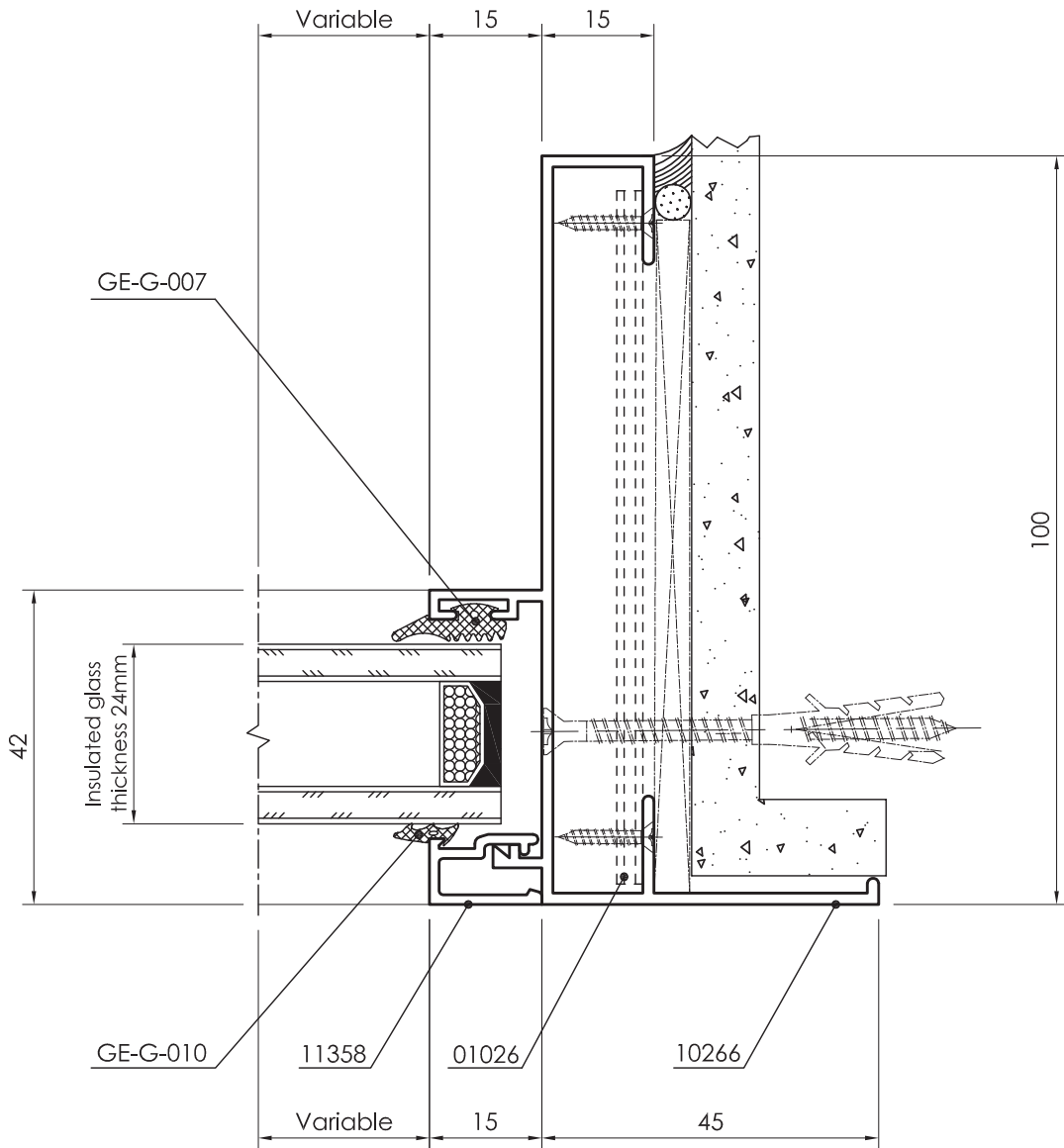
Left Fixed Door Section

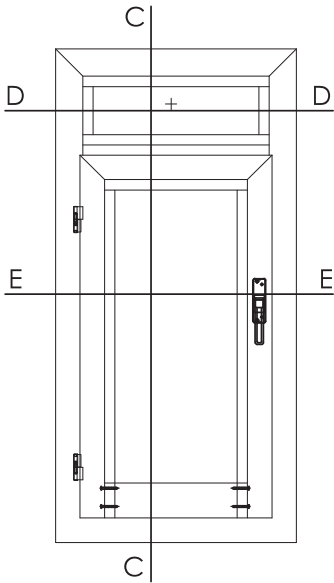
Detail - A5



Right Fixed Door Section

Detail - A6

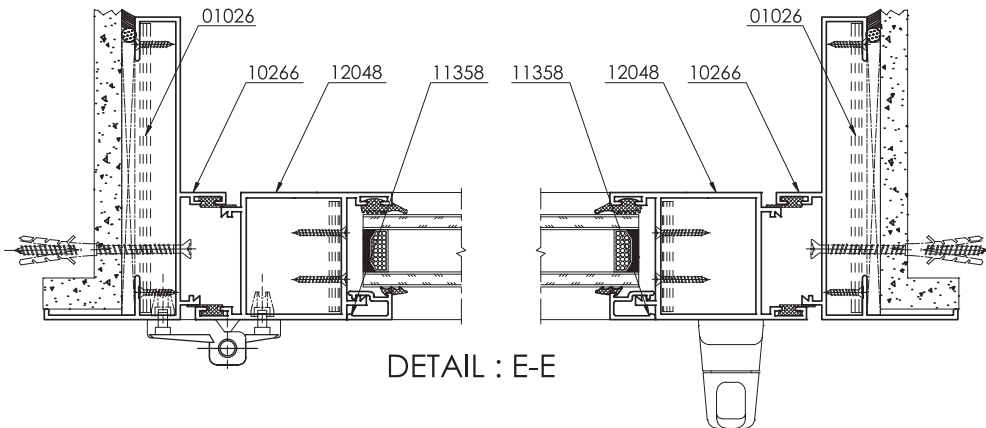
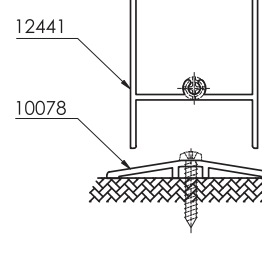
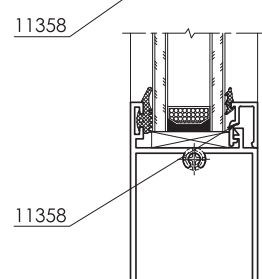
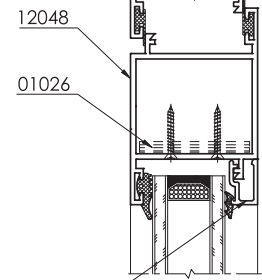
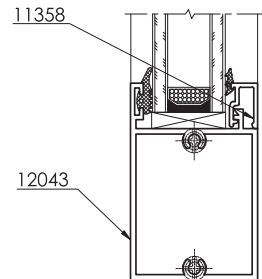
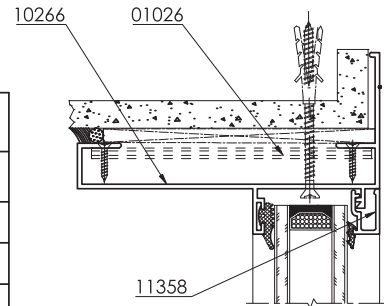




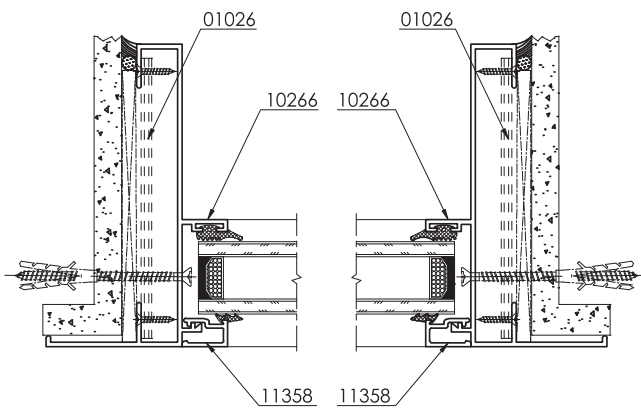
SINGLE LEAF HINGED DOOR WITH TOP FIXED PANEL (INWARD OPENING)

PROFILES		
Description	Shape	Section No.
Frame		10266
Sash		12048
Door bottom		12441
T-Section		12043
Glazing Bead		11358
Threshold		10078
Angle 40*40*3.5		01026

DETAIL : C-C

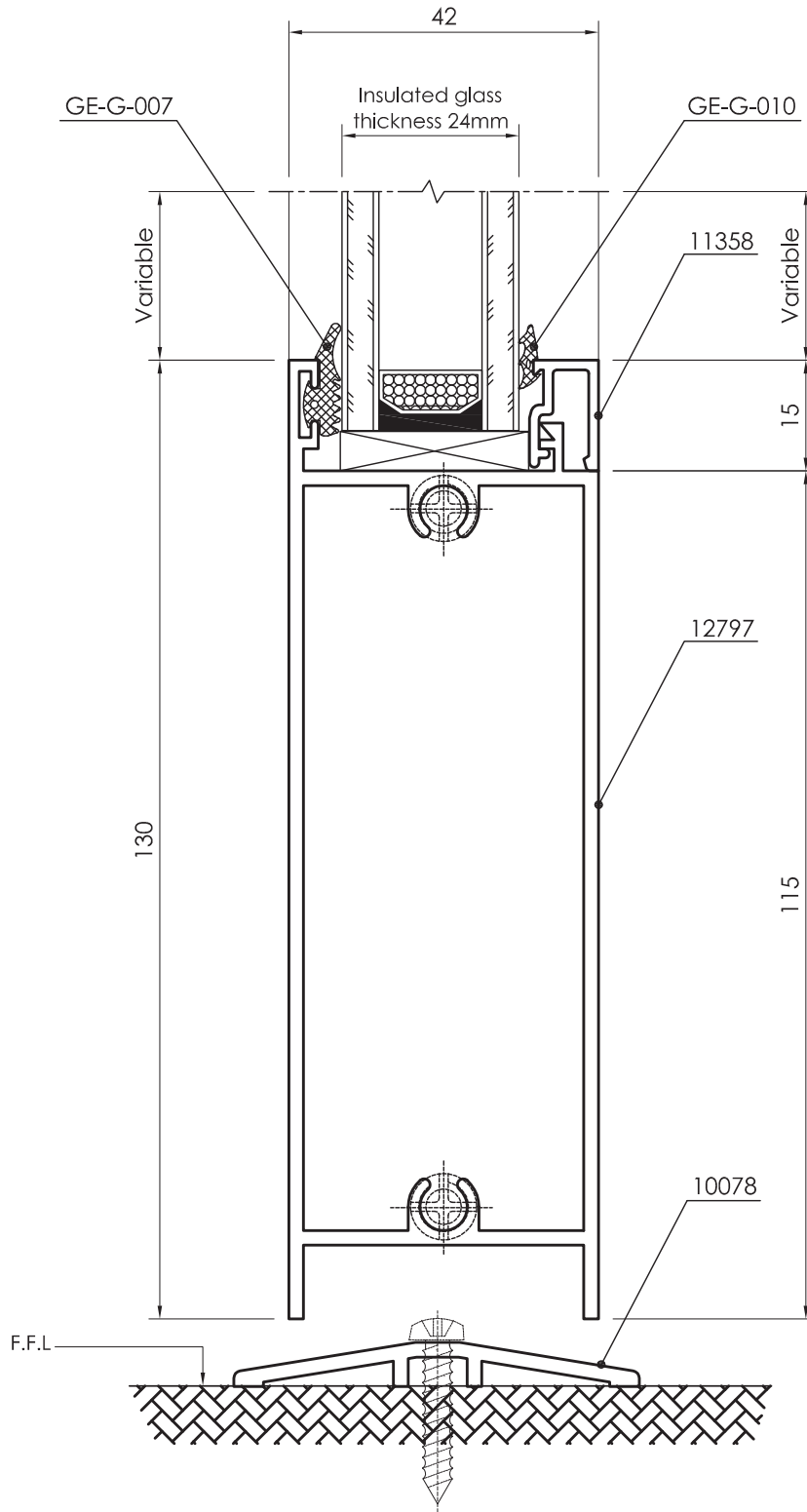


DETAIL : E-E

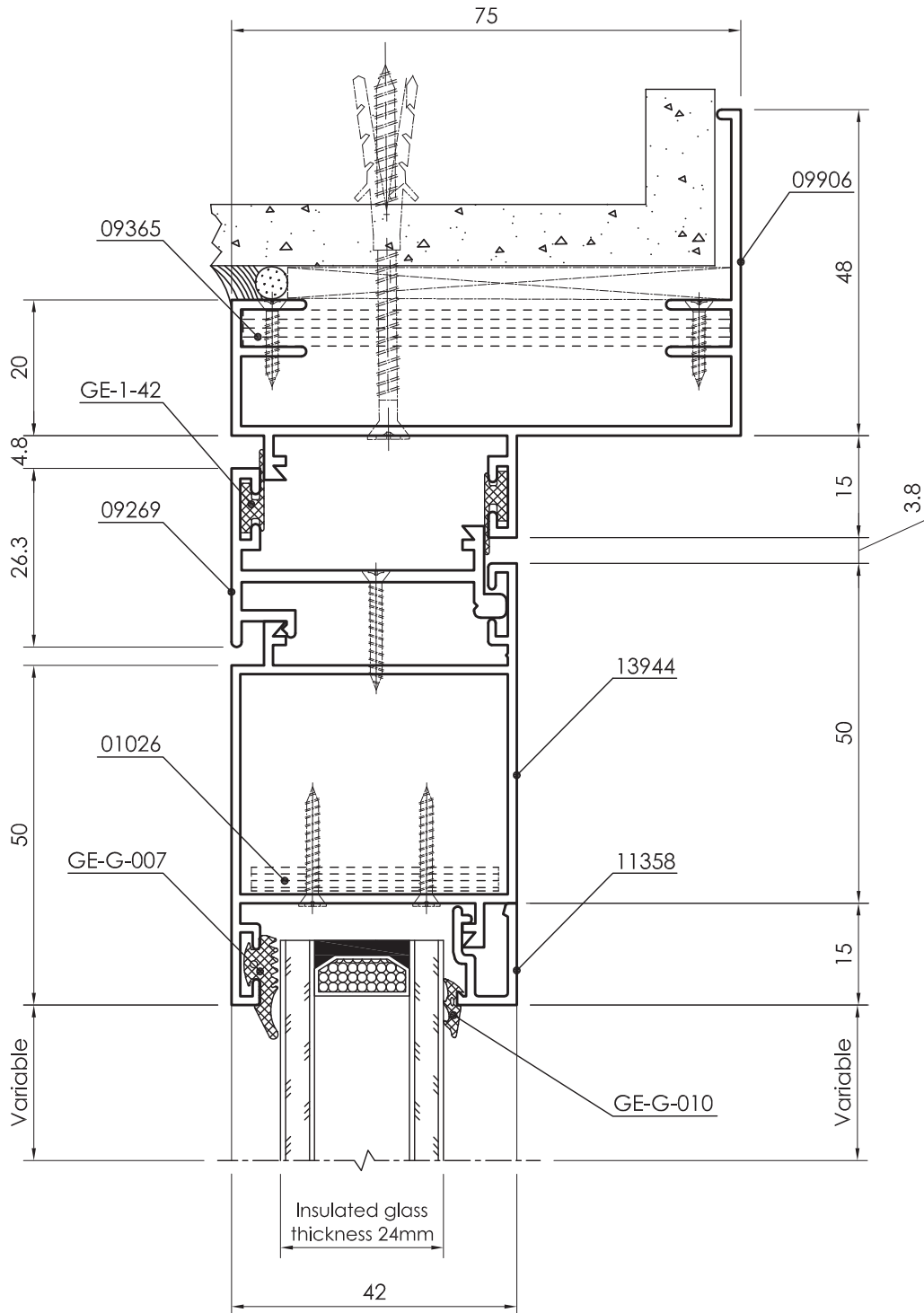


DETAIL : D-D

Bottom Door Section-Outward Opening
Detail - B

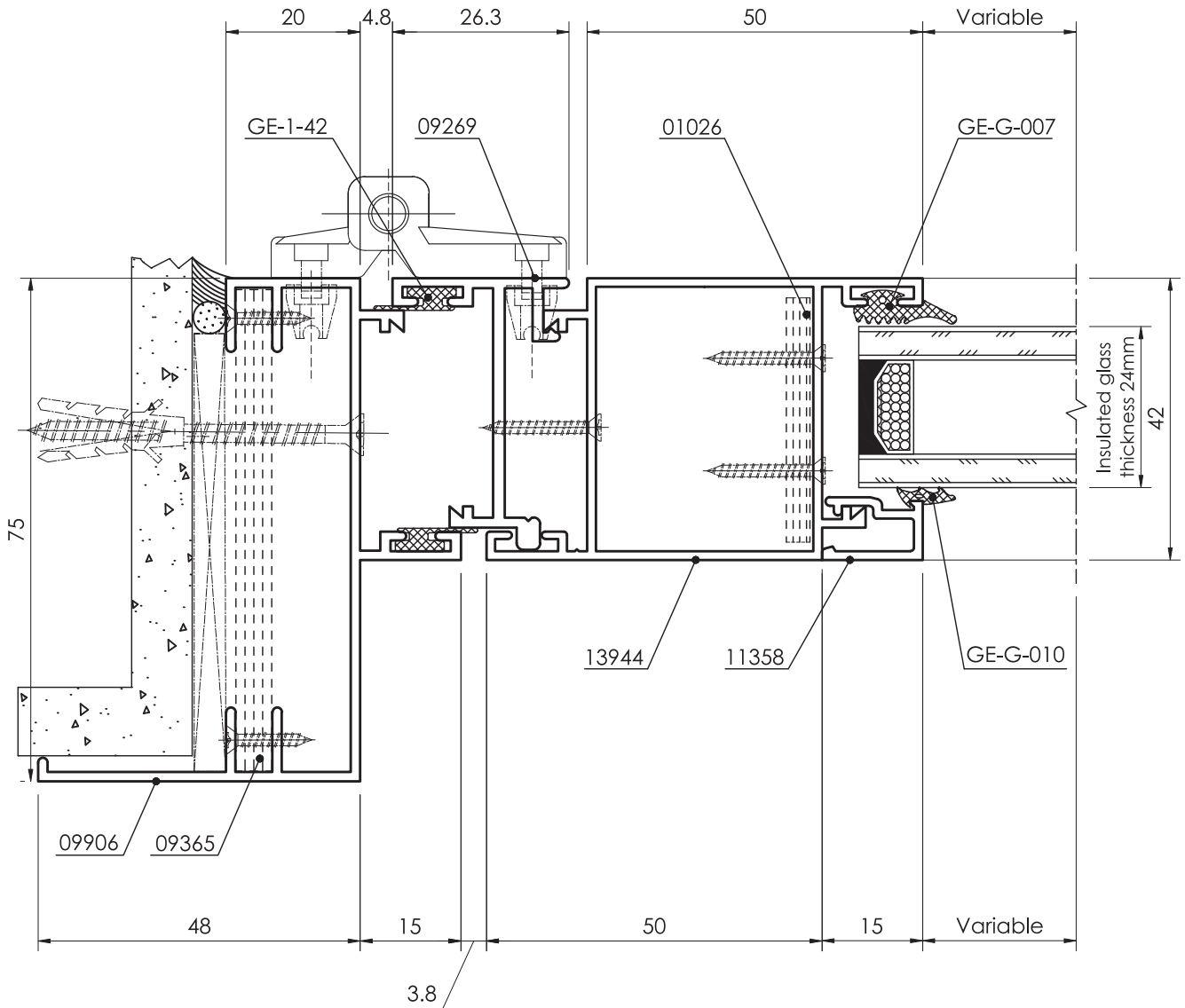


Top Door Section-Outward Opening
Detail - B1

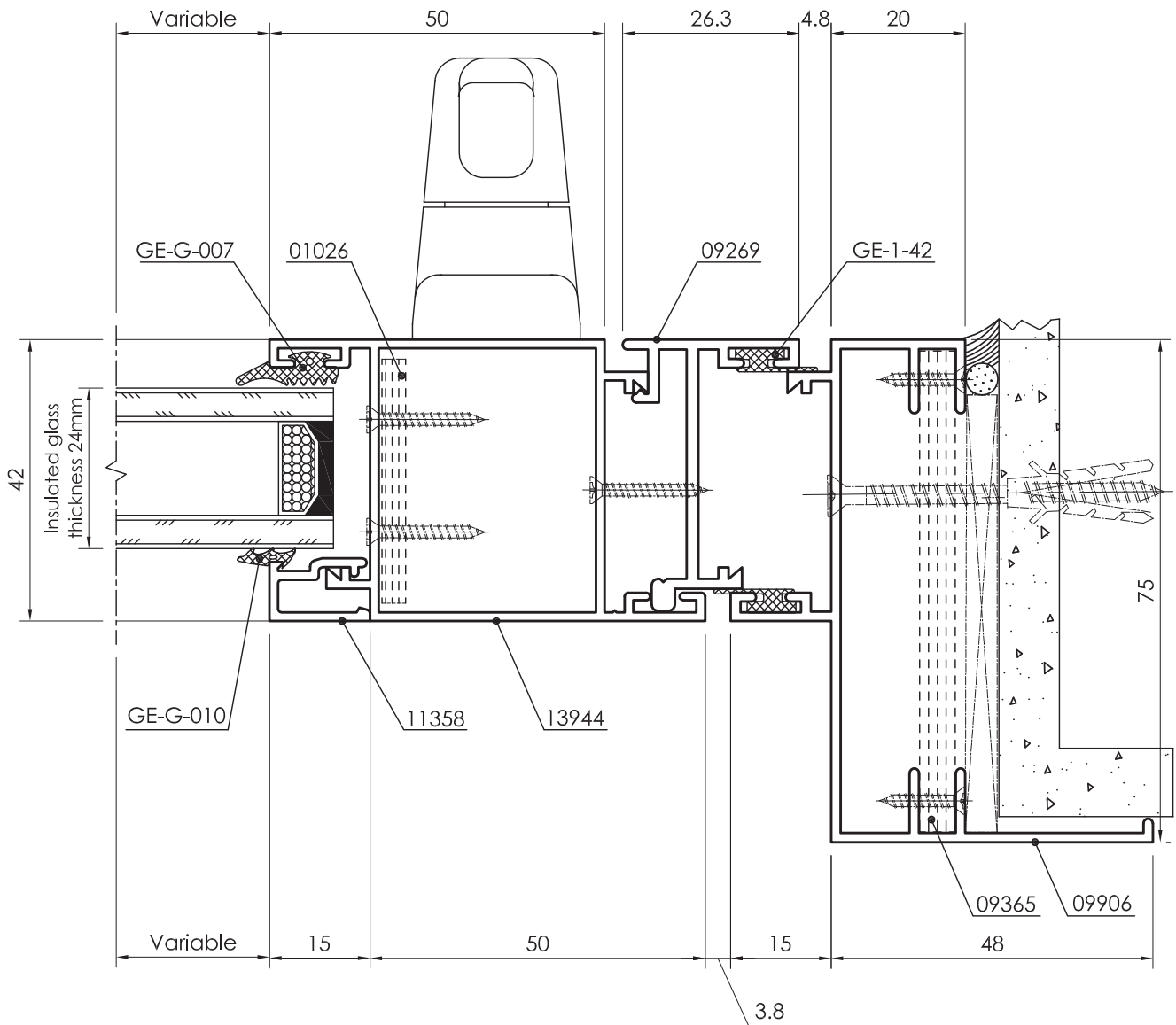


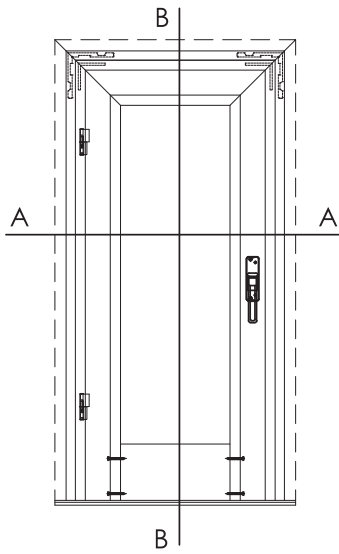
Left Side Door Section-Outward Opening

Detail - B2



Right Side Door Section-Outward Opening
Detail - B3

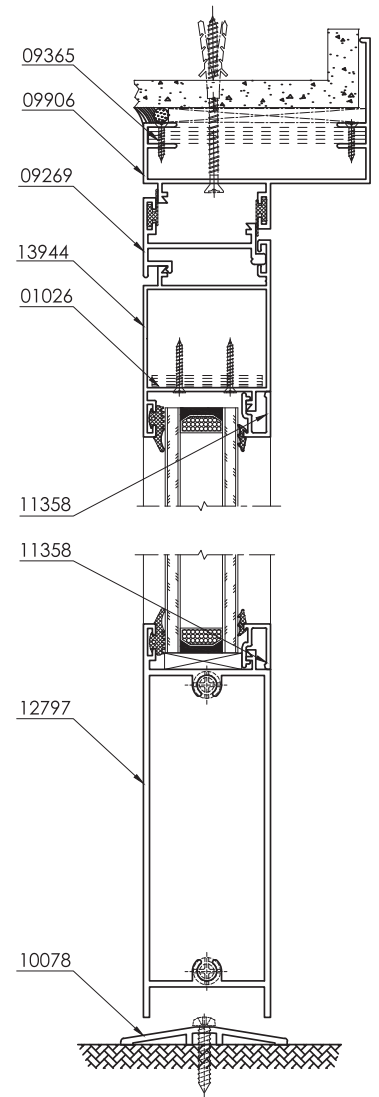




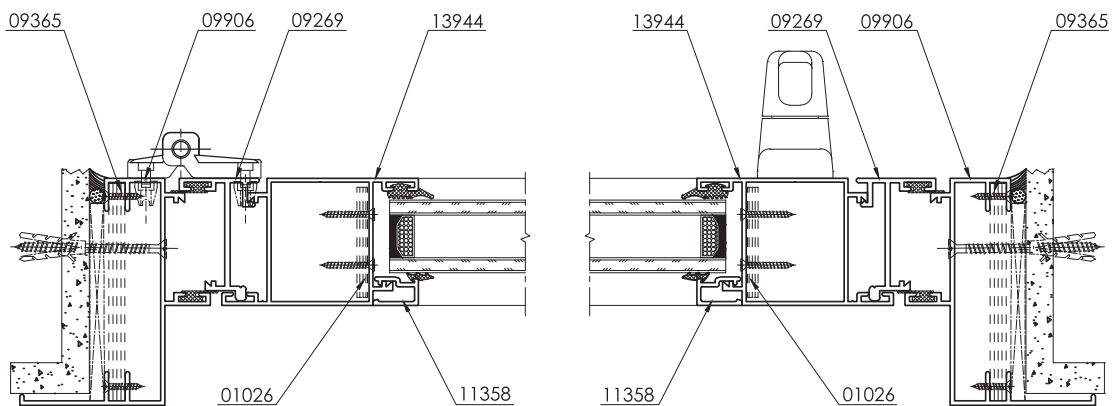
SINGLE LEAF HINGED DOOR
(OUTWARD OPENING)

PROFILES		
Description	Shape	Section No.
Frame		09906
Sash		13944
Door bottom		12797
Reverse		09269
Glazing Bead		11358
Threshold		10078
Angle 40*40*3.5		01026
Corner Cleat		09365

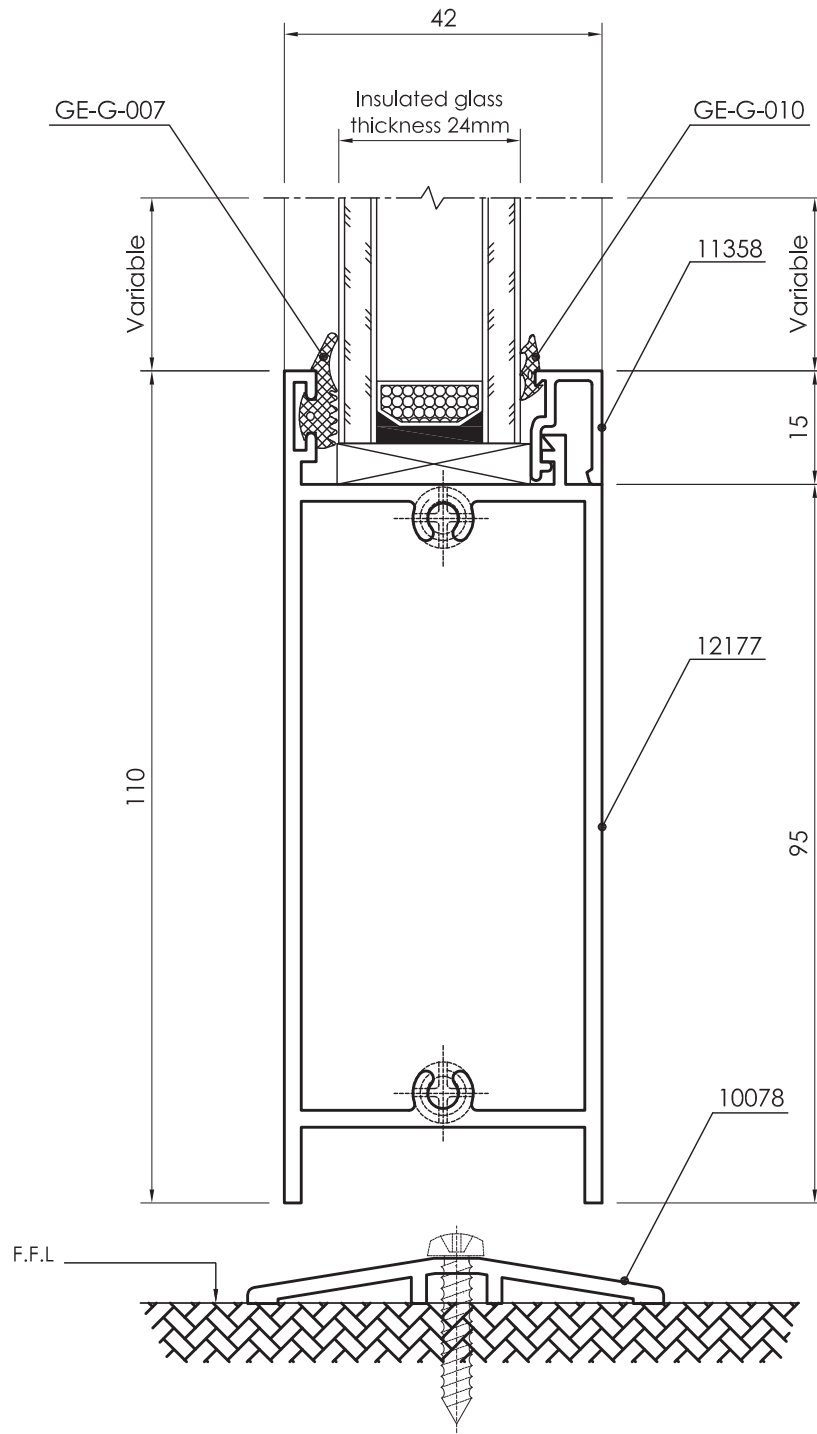
DETAIL : B-B



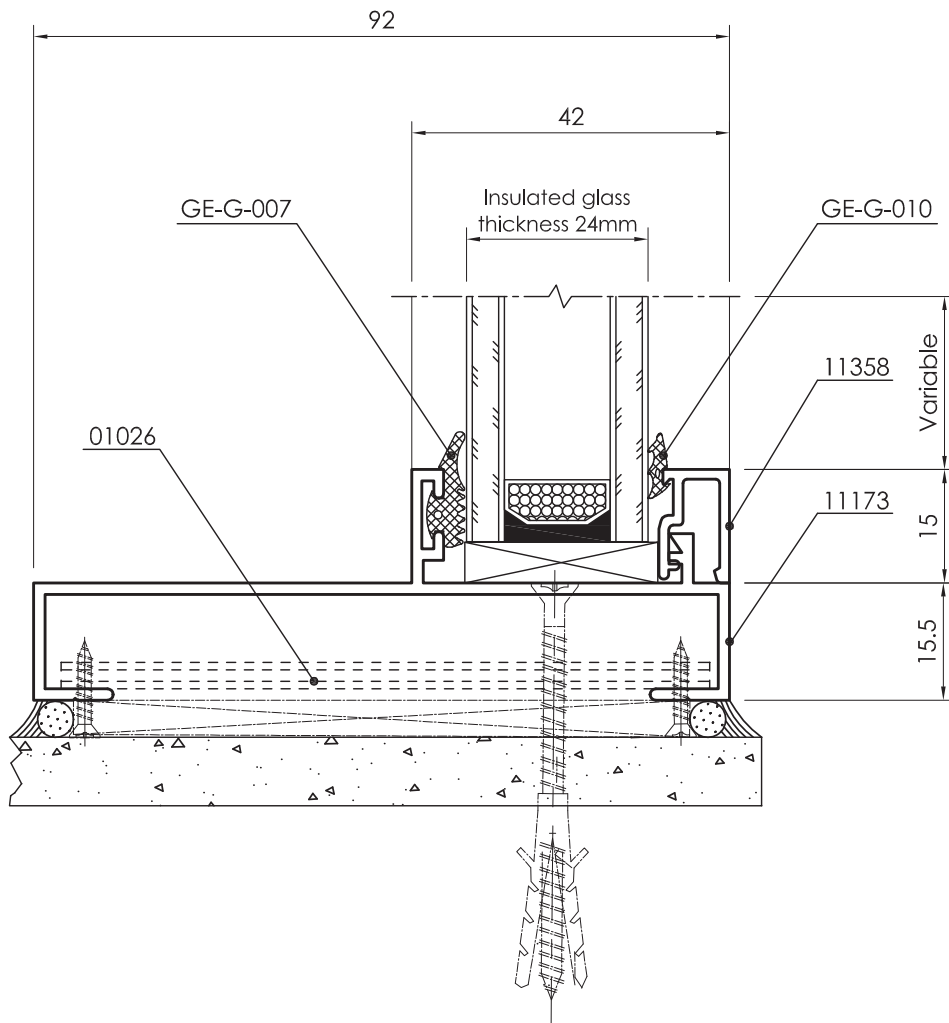
DETAIL : A-A



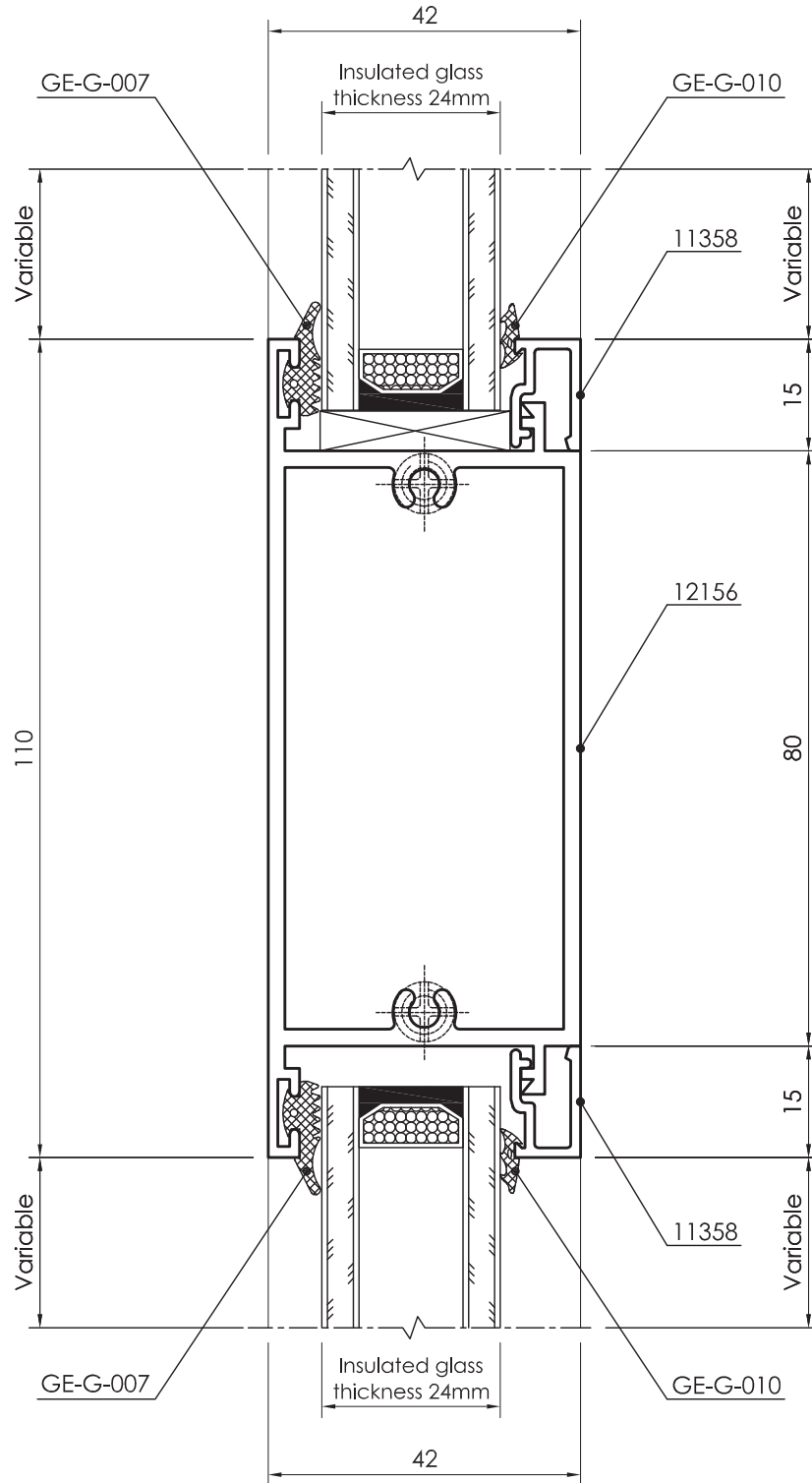
Bottom Door Section-Inward Opening
Detail - C1



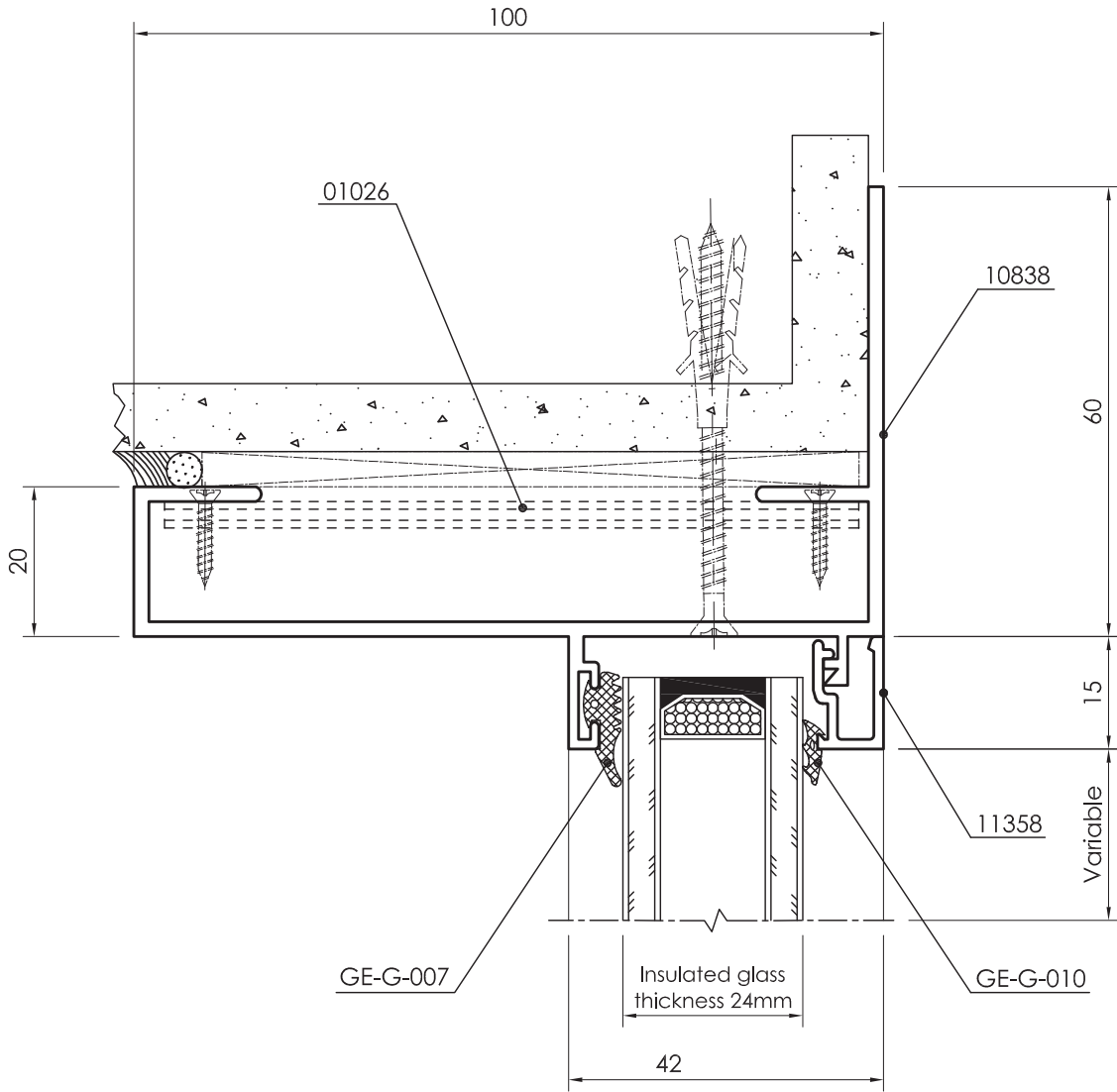
Bottom Door - Fixed Section-Inword Opening
 Detail - C1



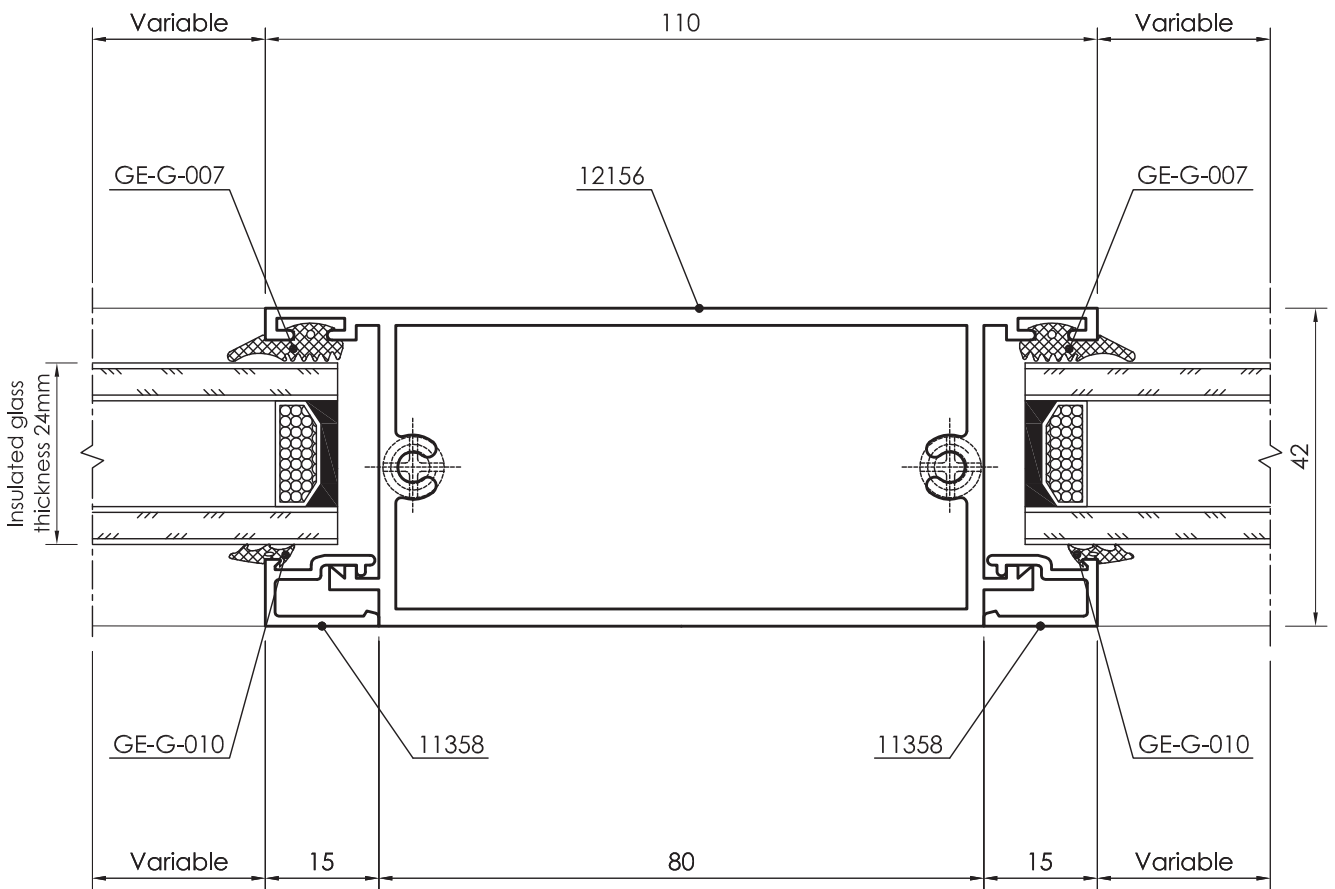
T-Fixed Section-Inward Opening
Detail - C2



Top Door - Fixed Section-Inword Opening
Detail - C3

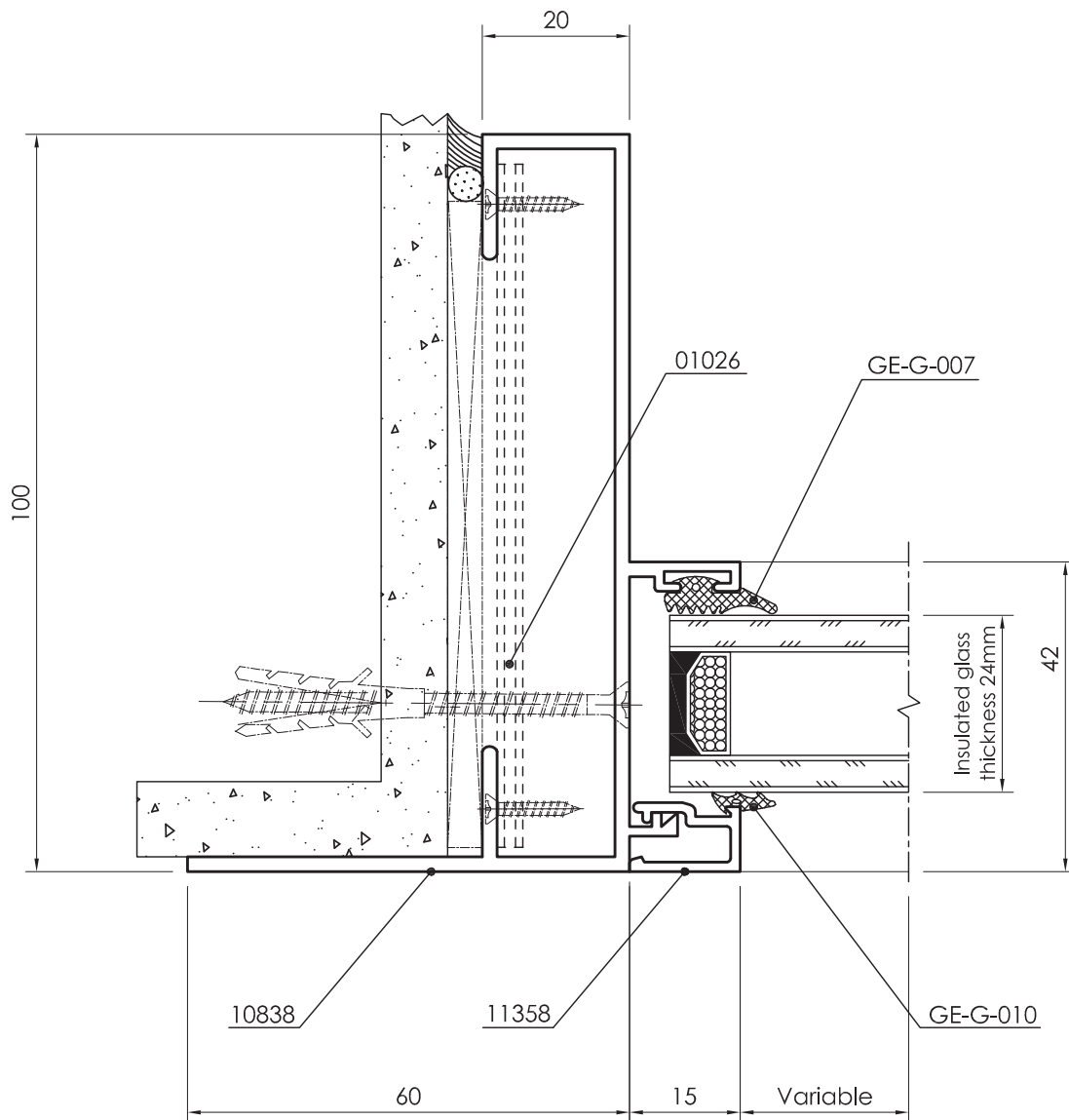


T-Top Fixed Section-Inword Opening
Detail - C5

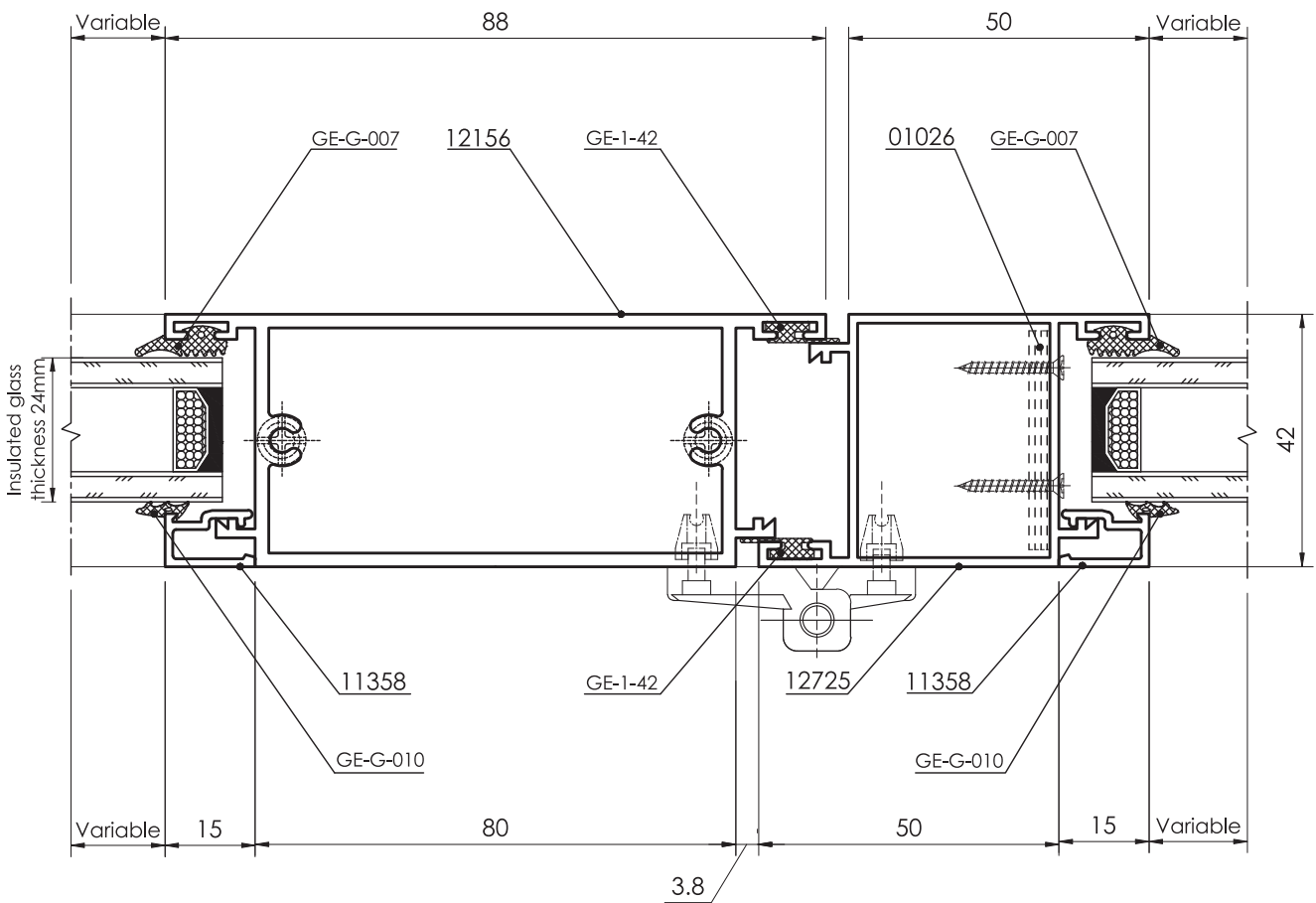


Left Side Fixed Section-Inward Opening

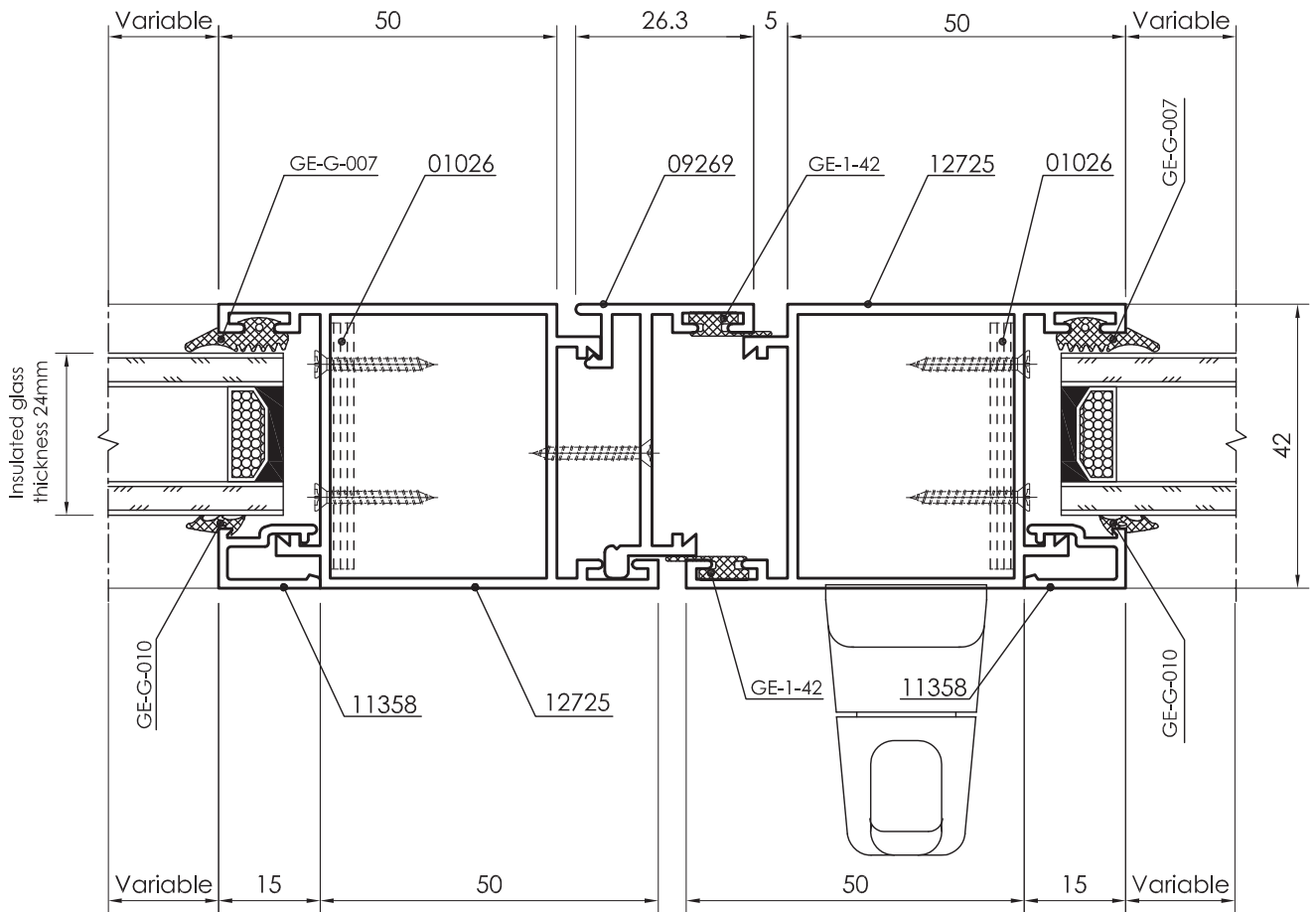
Detail - C6



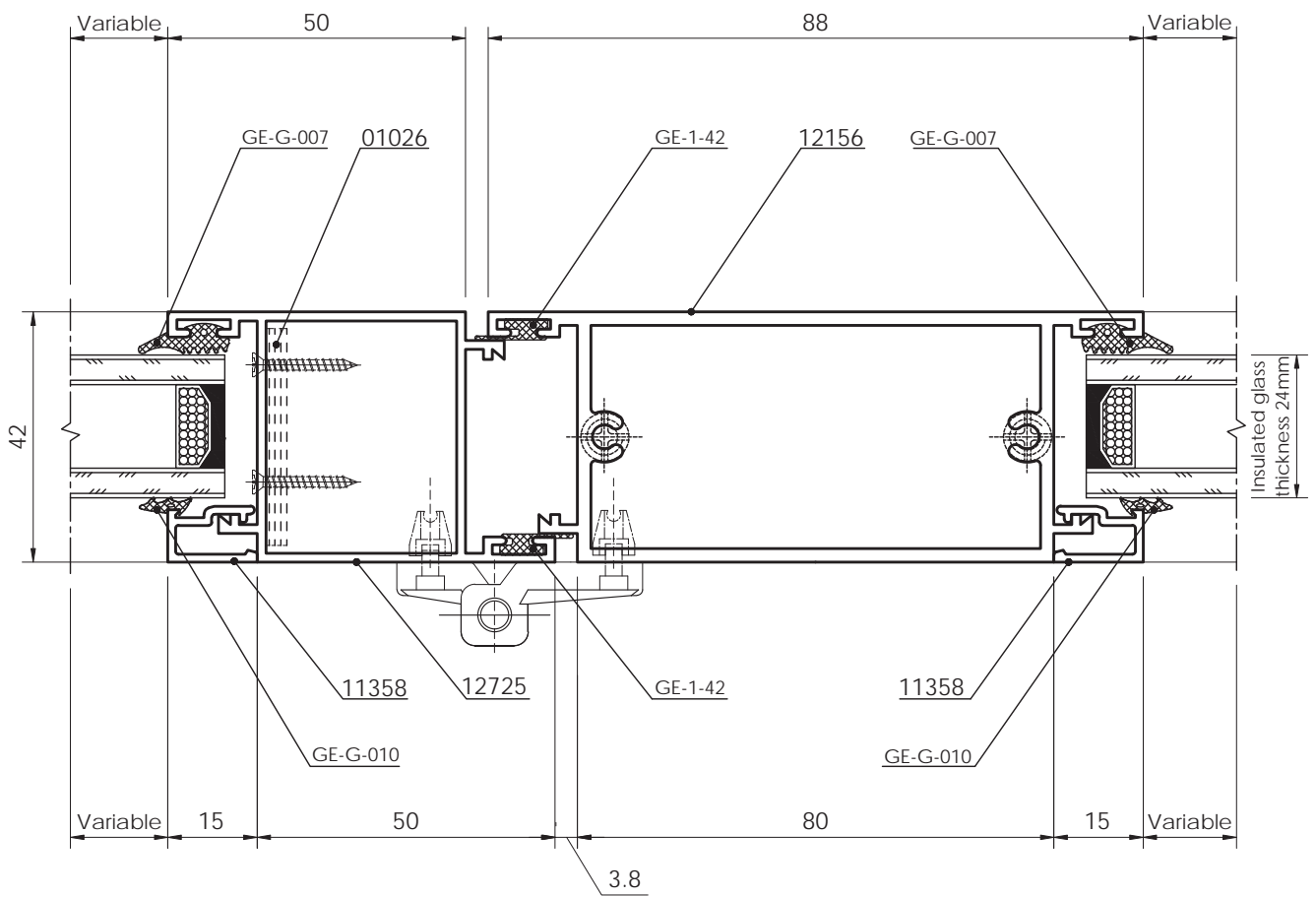
Left Side Open / Fixed Section-Inward Opening
Detail - C7



Double Leaf Section-Inward Opening
Detail - C8

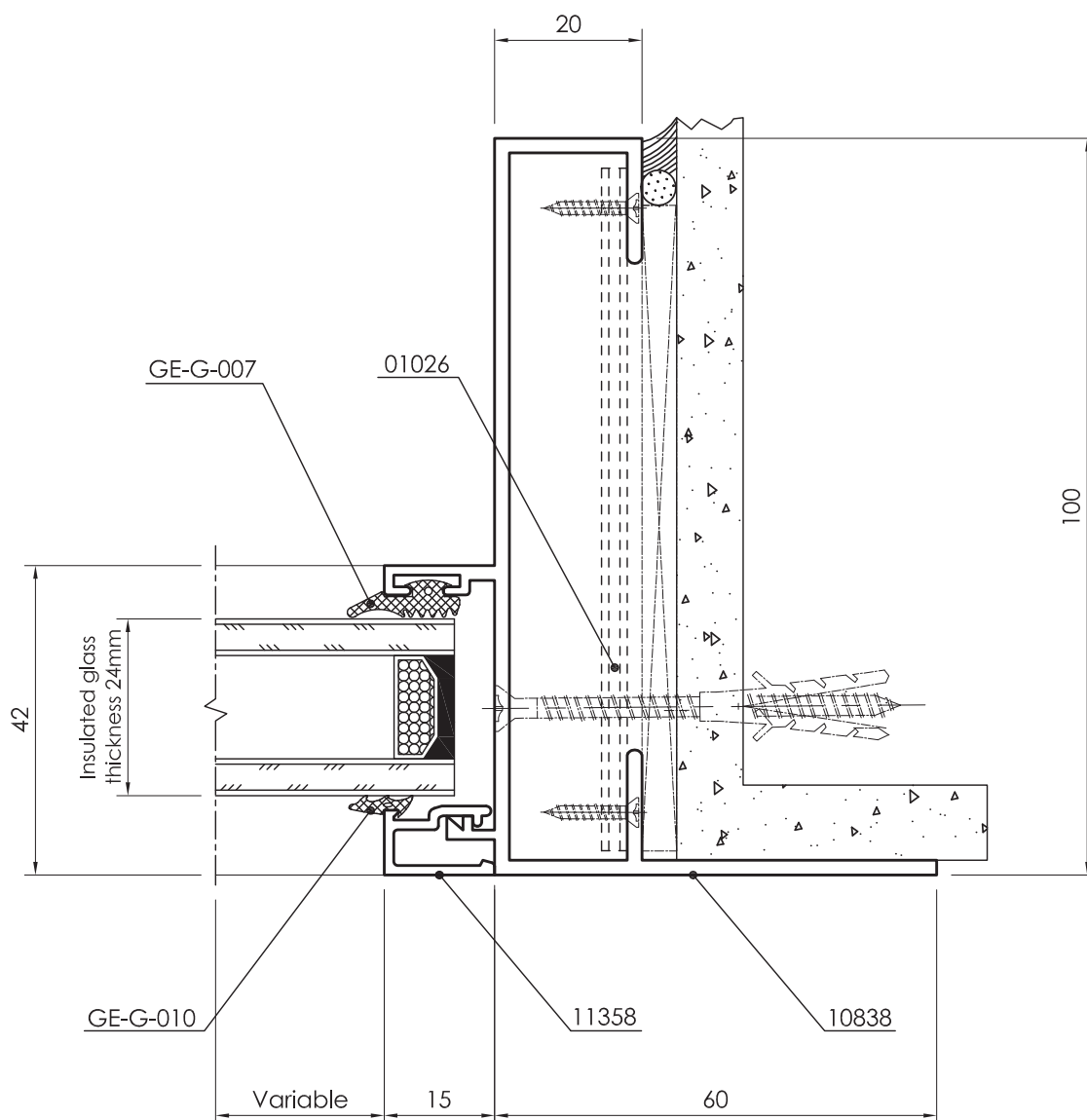


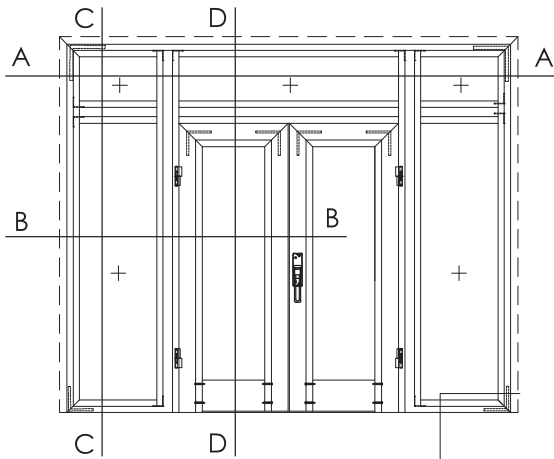
Right Side Open / Fixed Section-Inword Opening
Detail - C9



Right Side Fixed Section-Inward Opening

Detail - C10

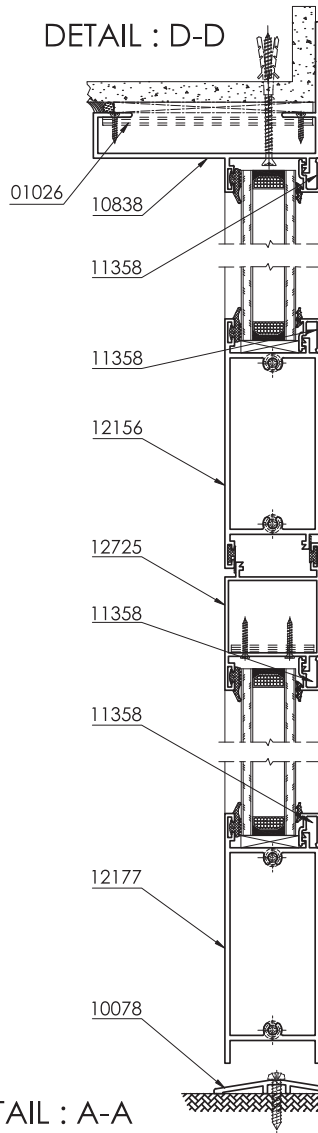




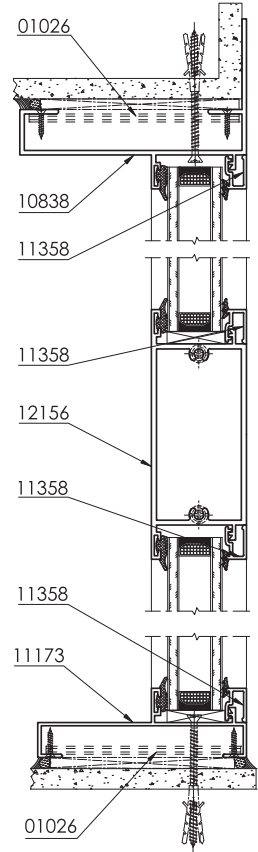
DOUBLE LEAF HINGED DOOR
WITH TOP & SIDE FIXED PANEL
(INWARD OPENING)

PROFILES		
Description	Shape	Section No.
Frame		10838
Frame W/o Architrave		11173
T-Section		12156
Sash		12725
Door bottom		12177
Reverse		09269
Glazing Bead		11358
Threshold		10078
Angle 40*40*3.5		01026

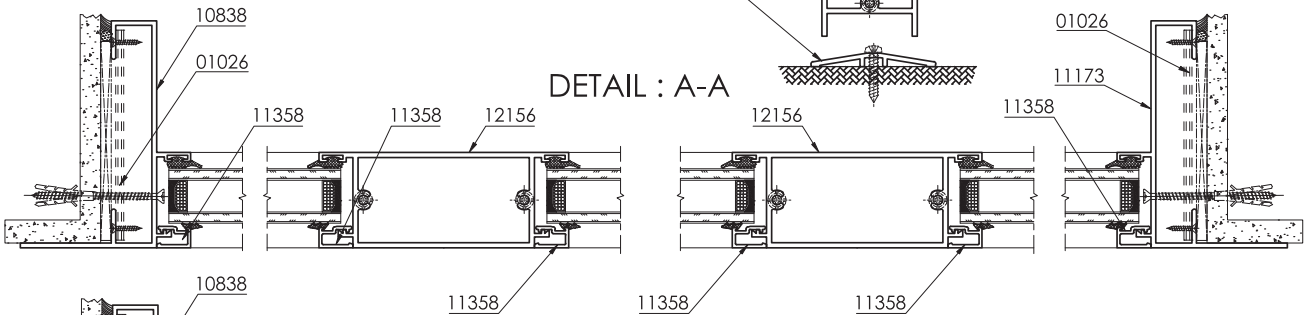
DETAIL : D-D



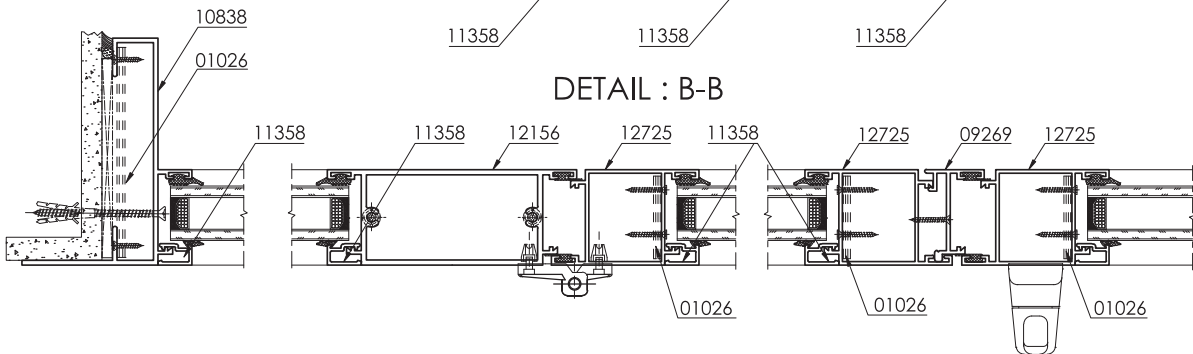
DETAIL : C-C



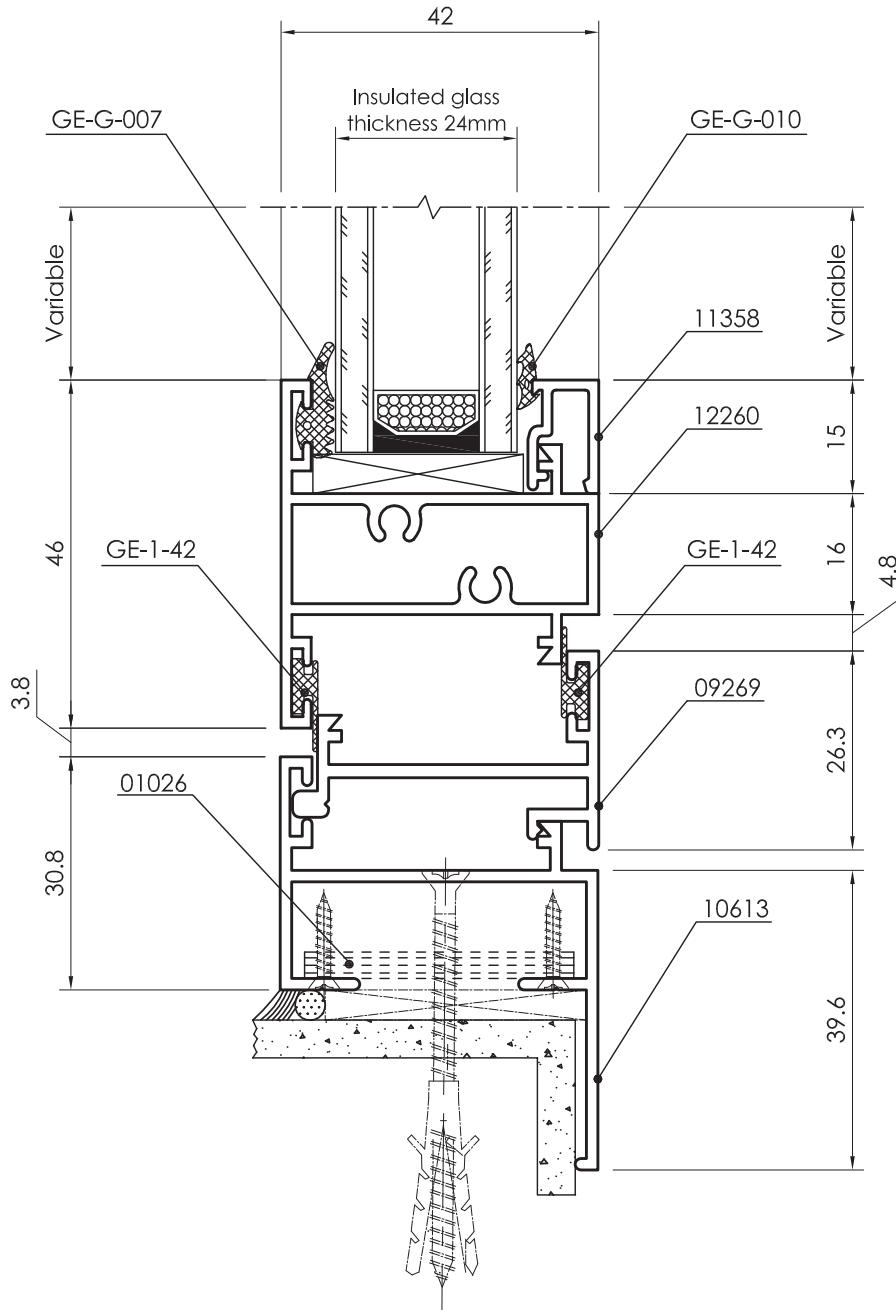
DETAIL : A-A



DETAIL : B-B

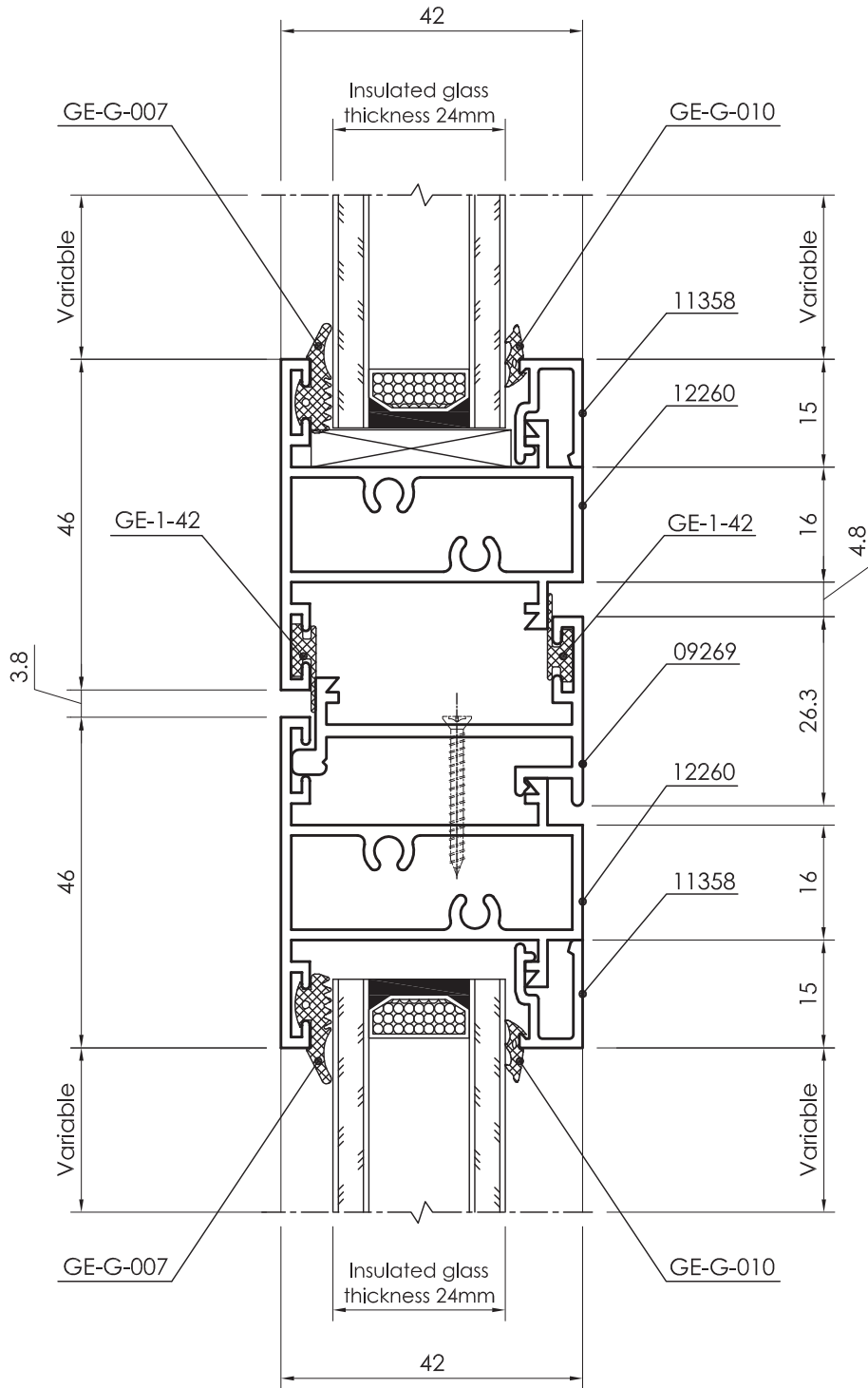


Bottom Window Section-Outward Opening
Detail - D

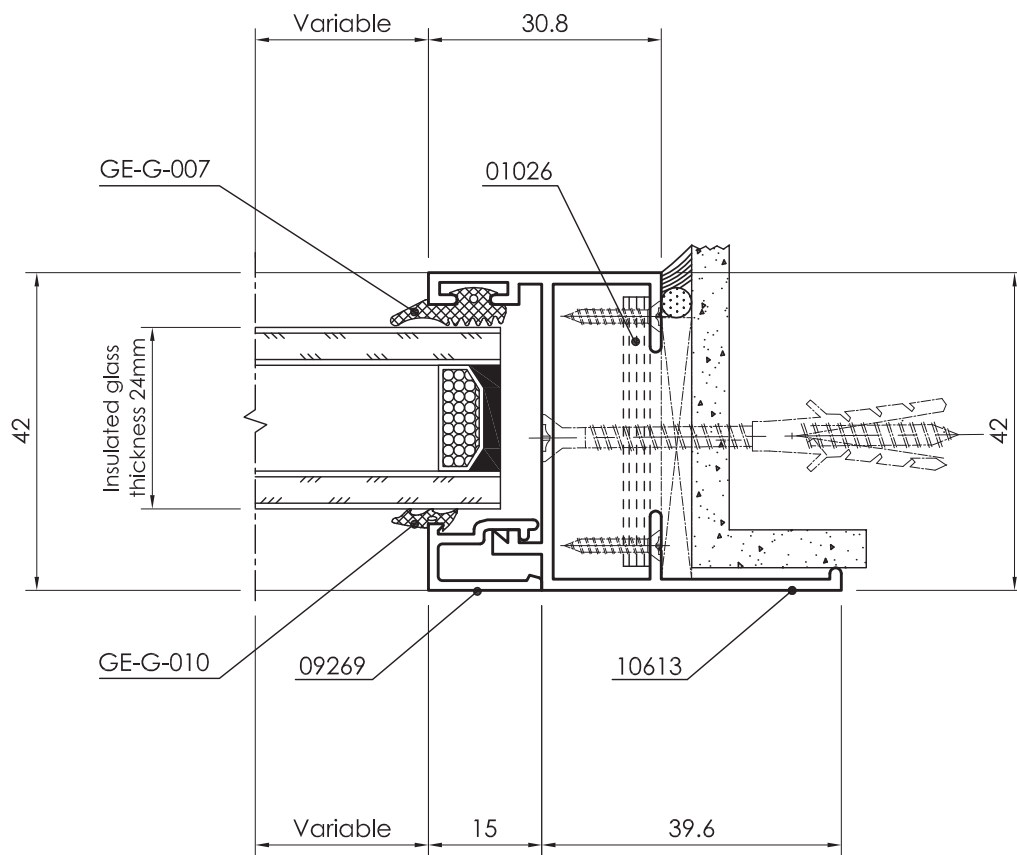


Top Window - Open / Fixed Section-Outward Opening

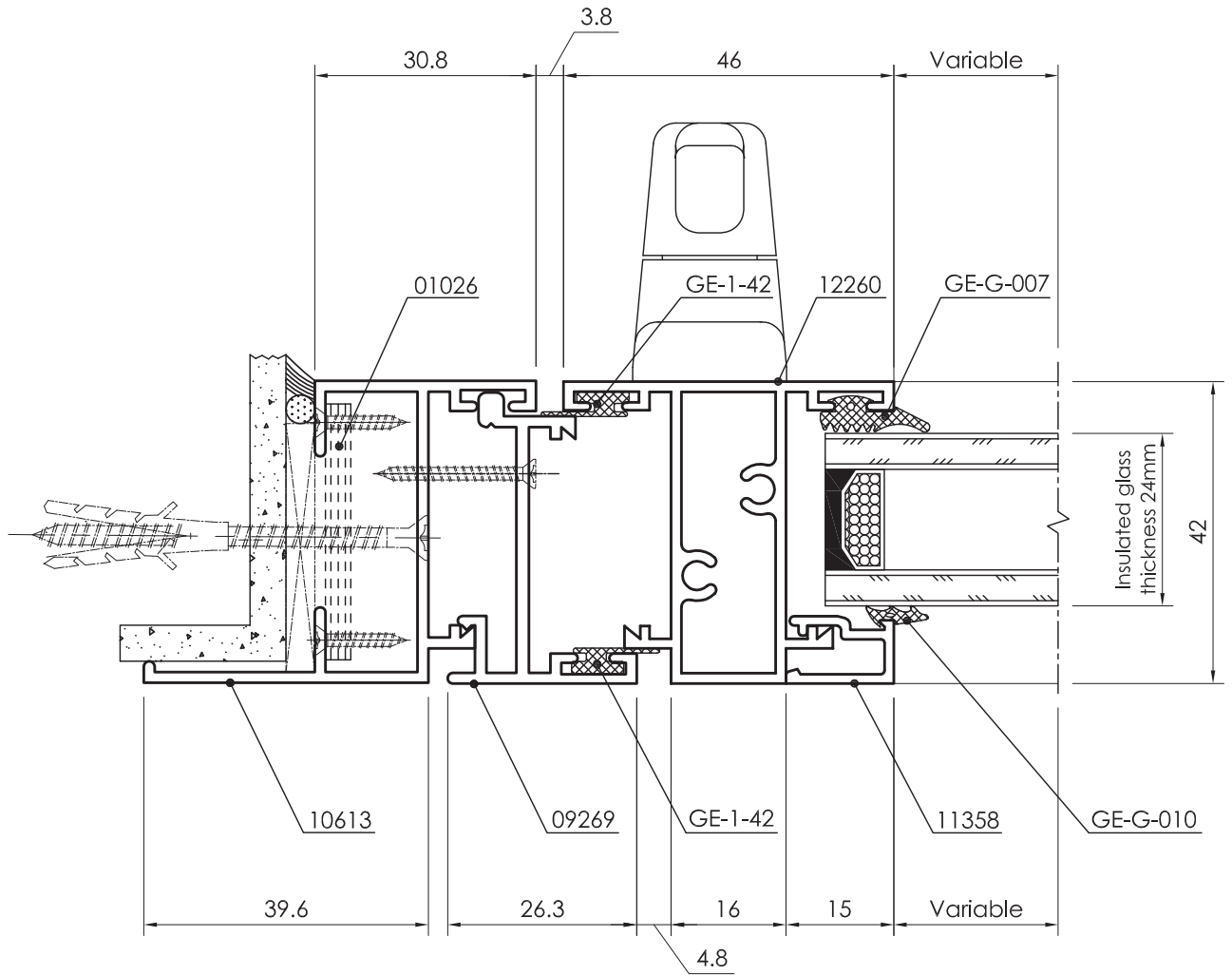
Detail - D1



Right Side Window - Fixed Section-Outward Opening
Detail - D4

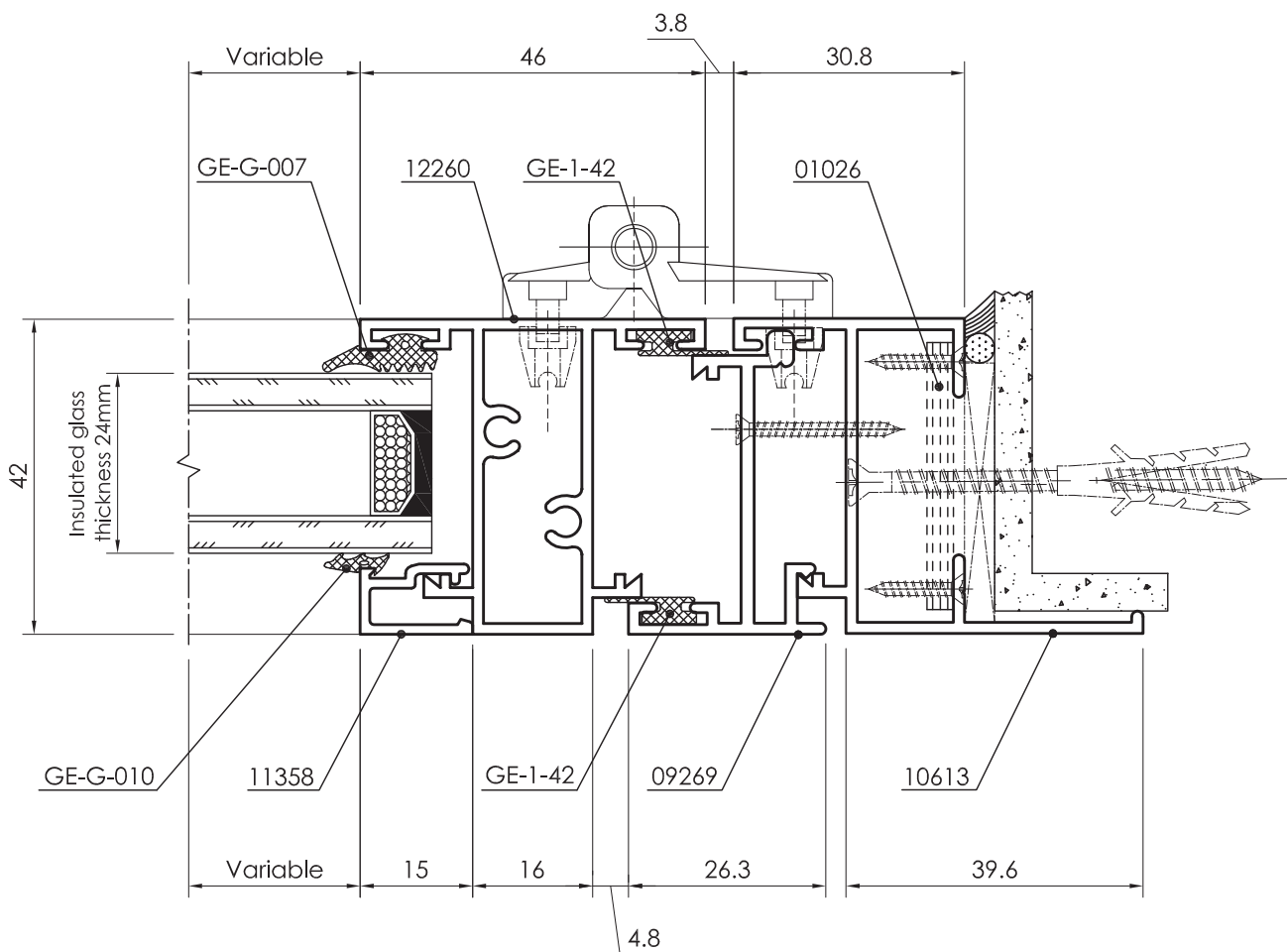


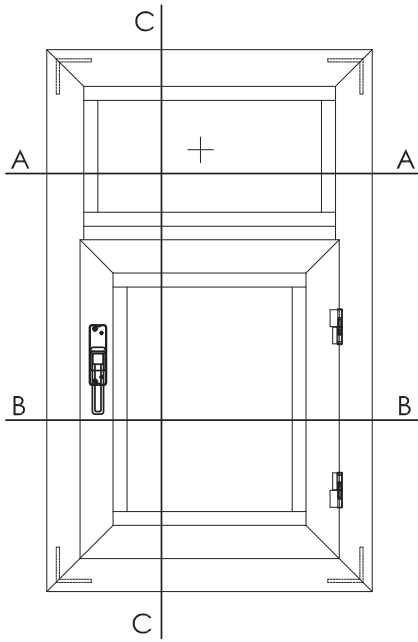
Left Side Window-Outward Opening
Detail - D5



Right Side Window-Outward Opening

Detail - D6

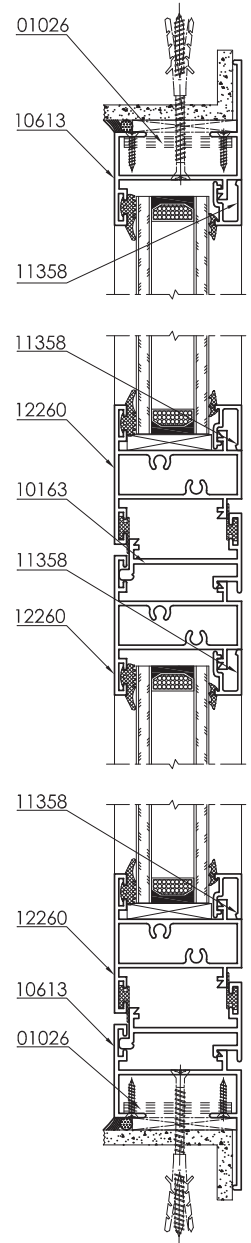




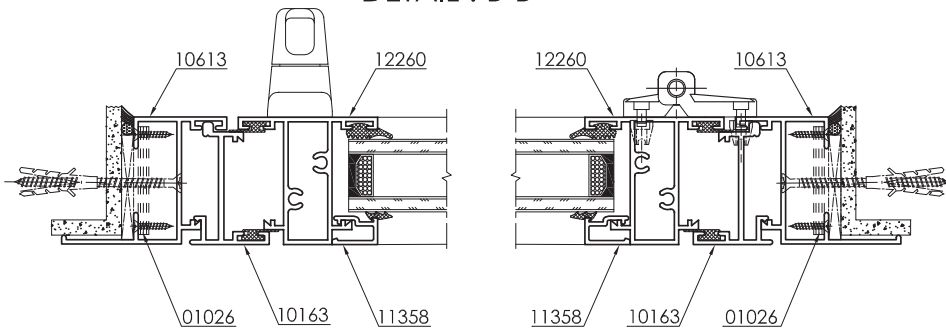
PROFILES		
Description	Shape	Section No.
Frame		10613
T-Section		12260
Reverse		09269
Glazing Bead		11358
Angle 40*40*3.5		01026

SINGLE LEAF HINGED WINDOW
WITH TOP FIXED GLASS
(OUTWARD OPENING)

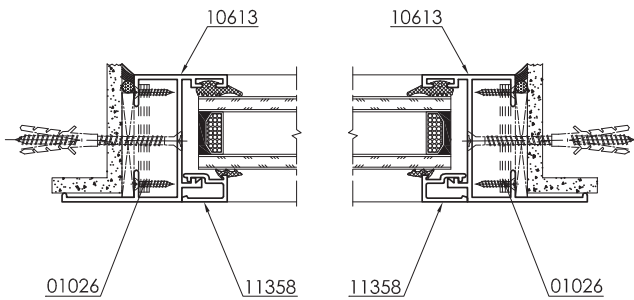
DETAIL : C-C



DETAIL : B-B

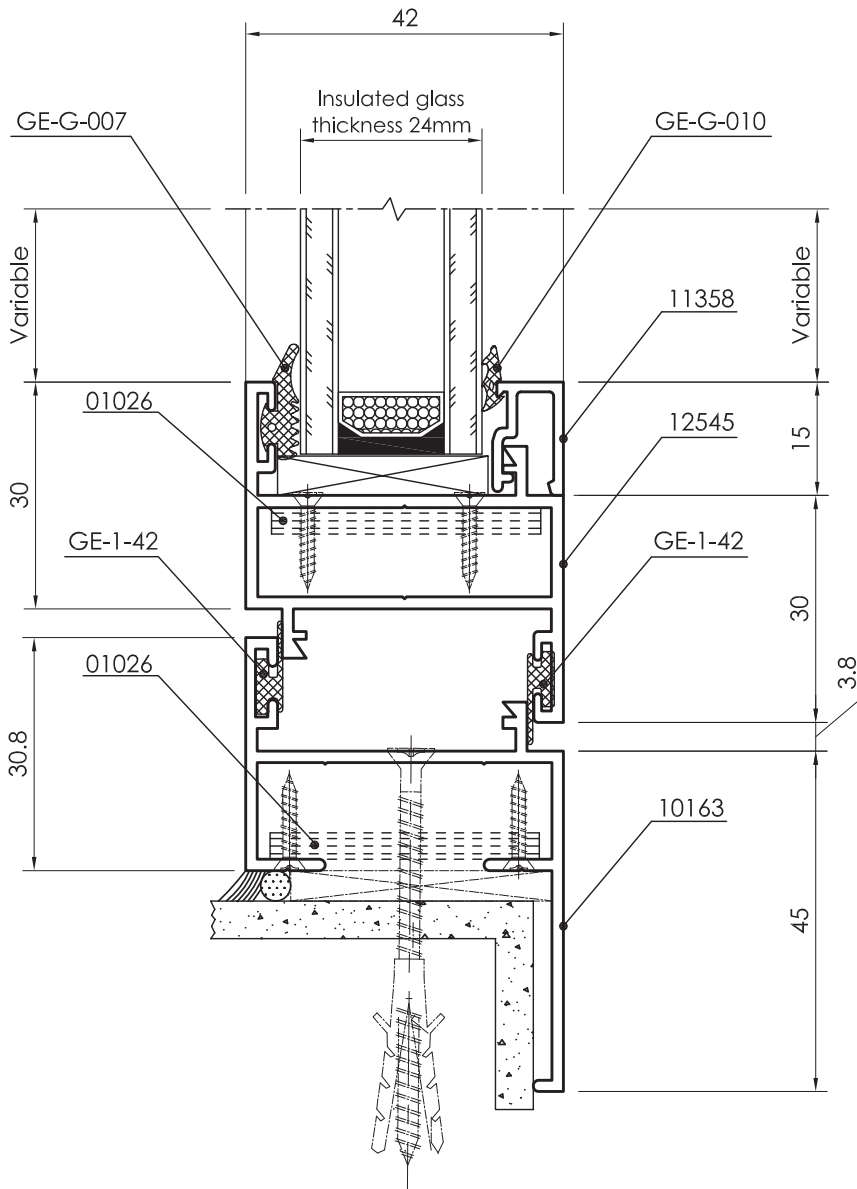


DETAIL : A-A

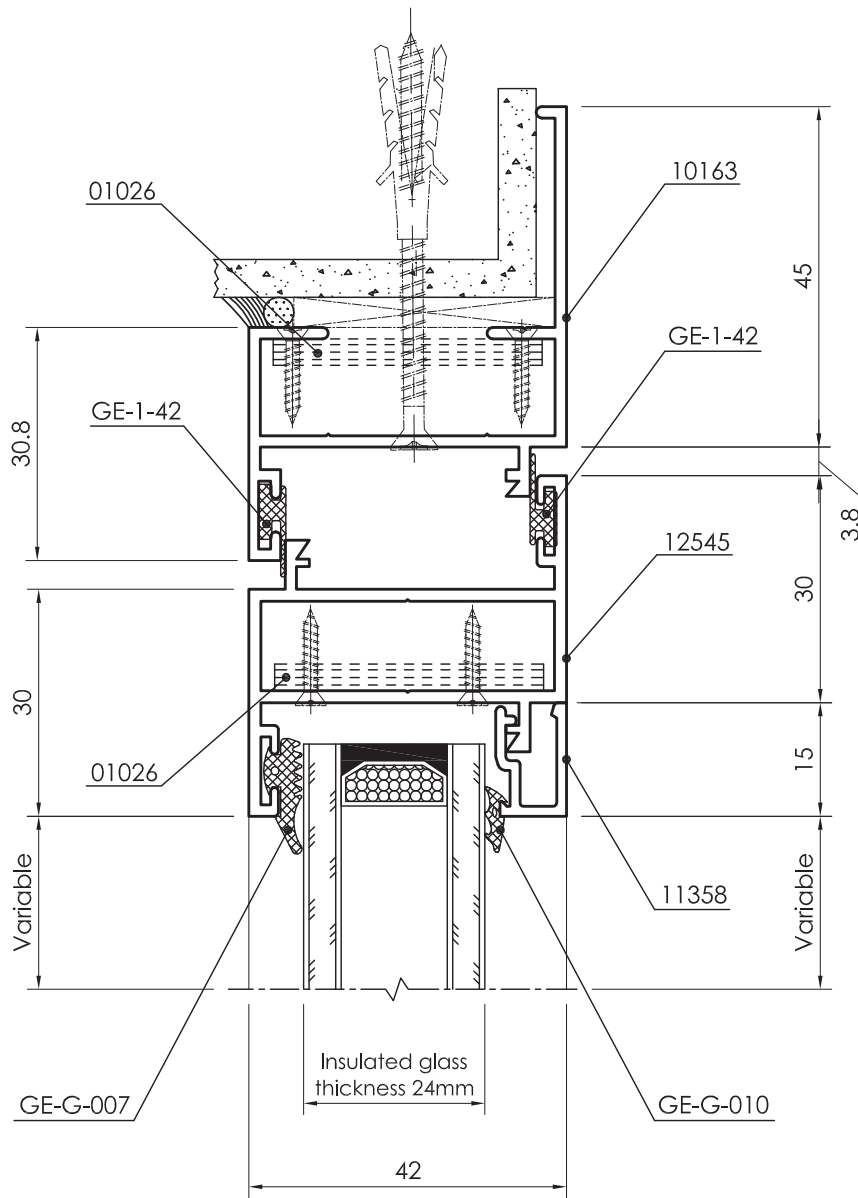


Bottom Window Section-Inward Opening

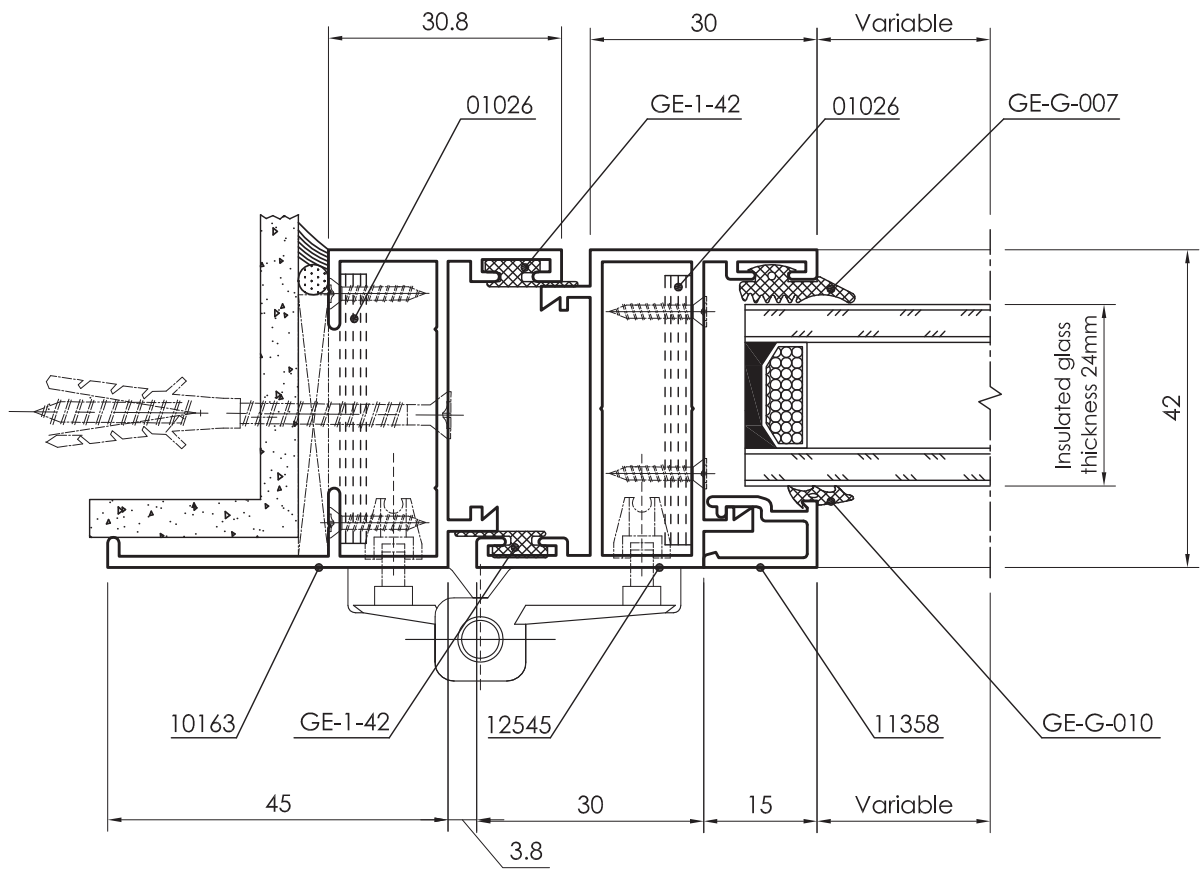
Detail - E



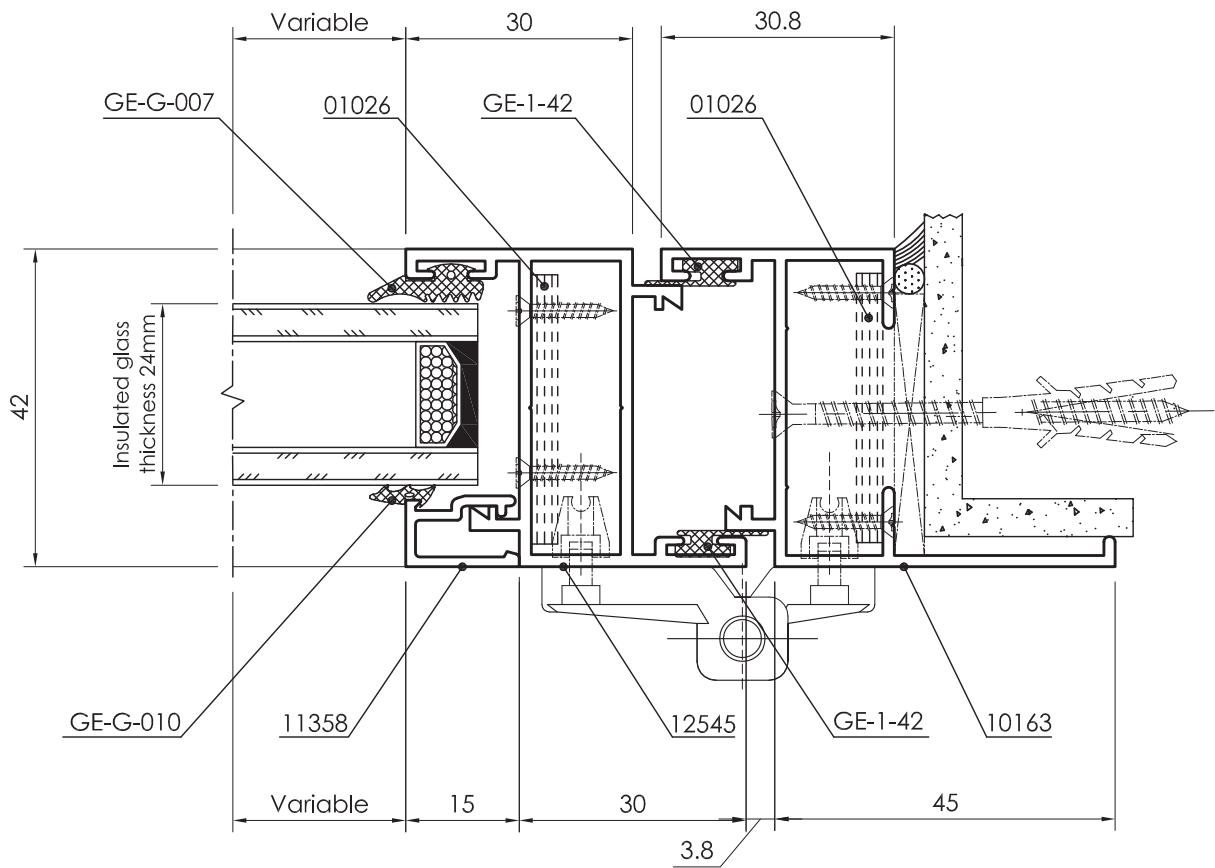
Top Window Section-Inword Opening
Detail - E1

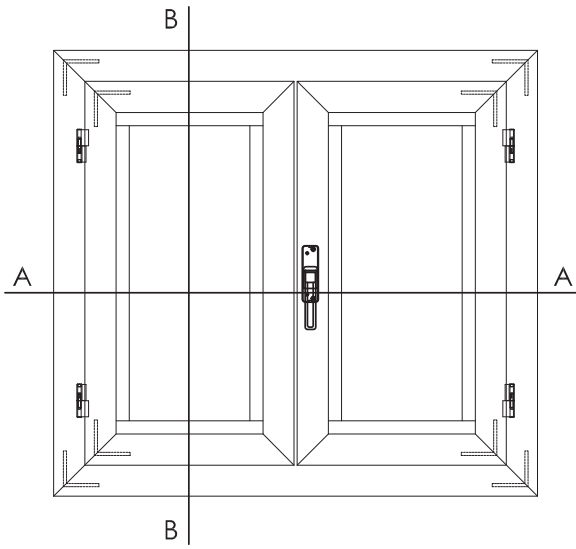


Left Side Window Section-Inward Opening
Detail - E2



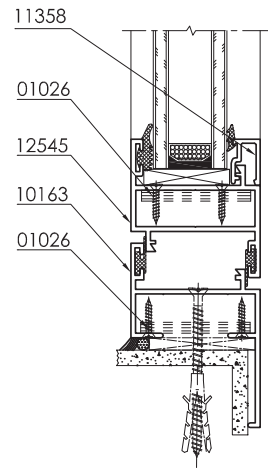
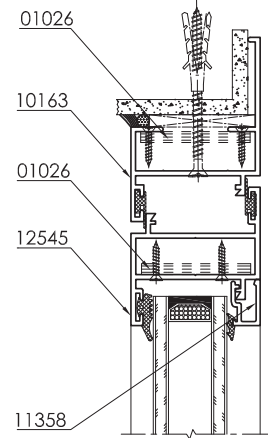
Right Side Window Section-Inward Opening
Detail - E4





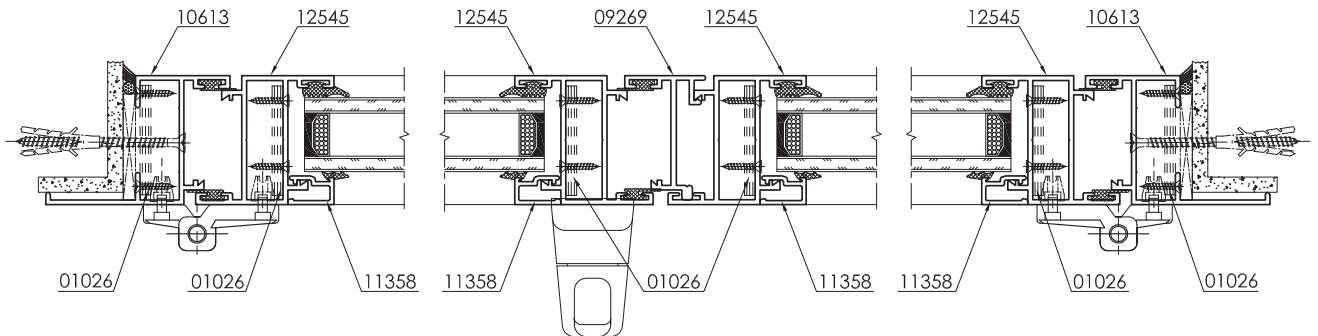
DOUBLE LEAF HINGED WINDOW
(INWARD OPENING)

DETAIL : B-B



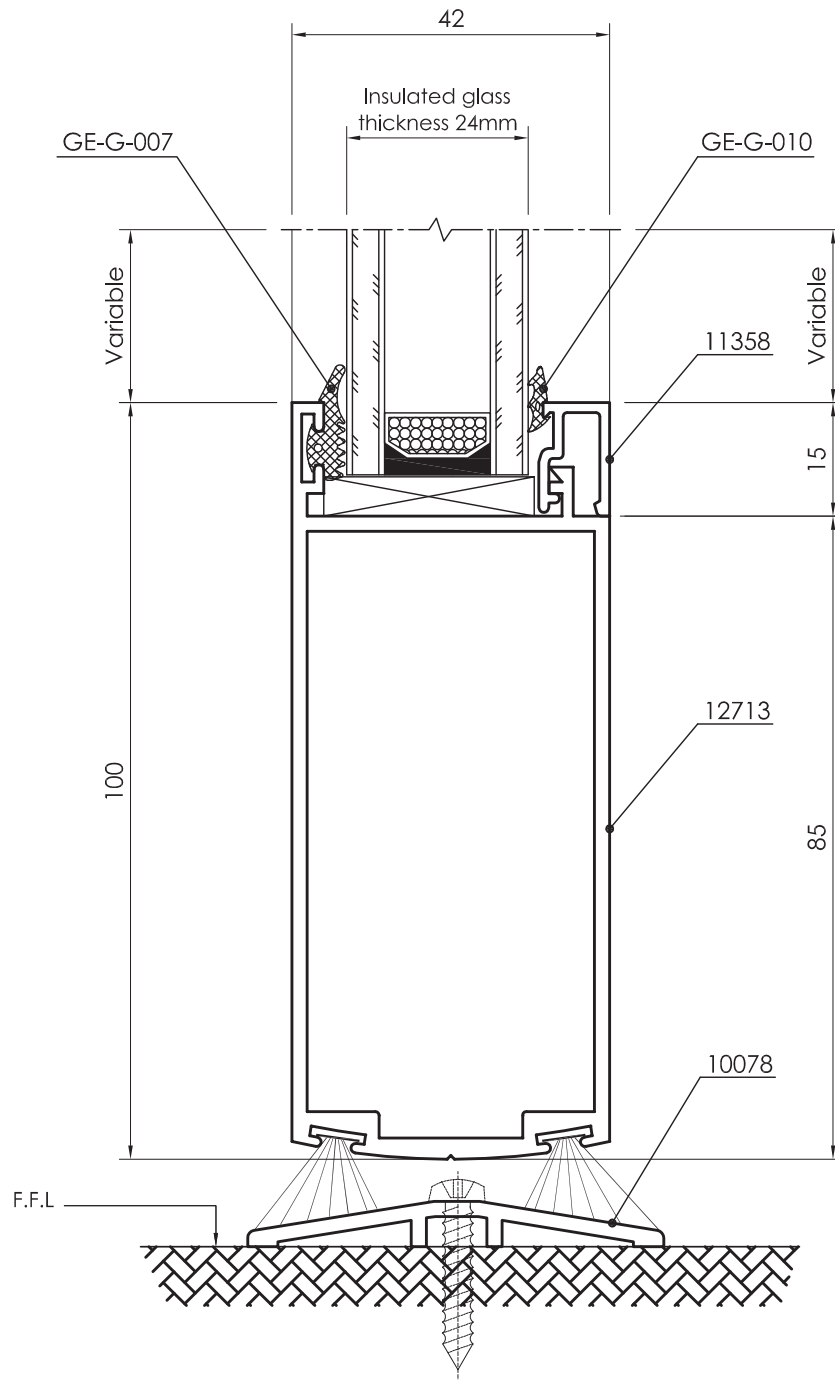
PROFILES		
Description	Shape	Section No.
Frame		10163
Sash		12545
Reverse		09269
Glazing Bead		11358
Angle 40*40*3.5		01026

DETAIL : A-A

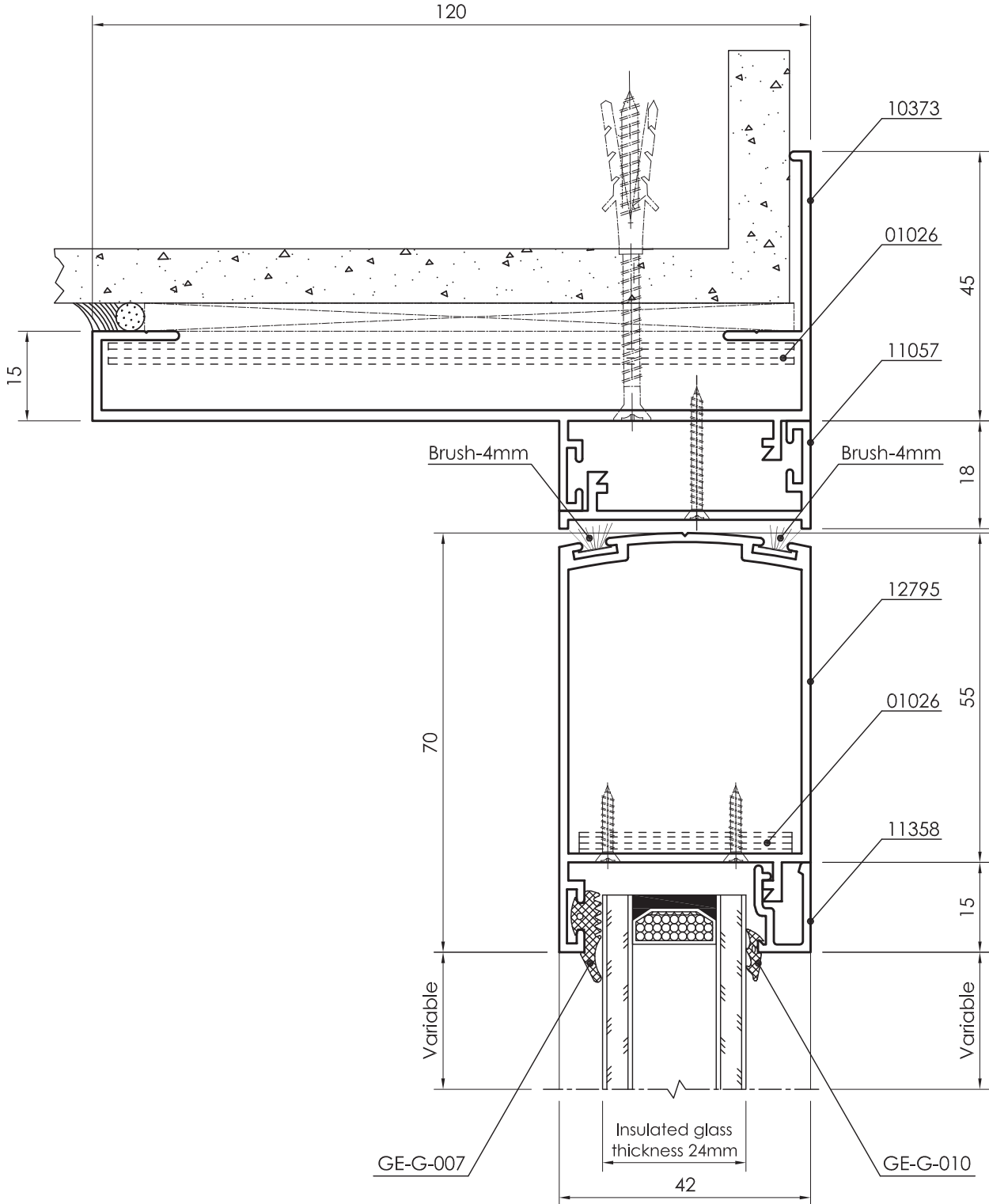


Bottom Swing Door Section

Detail - F

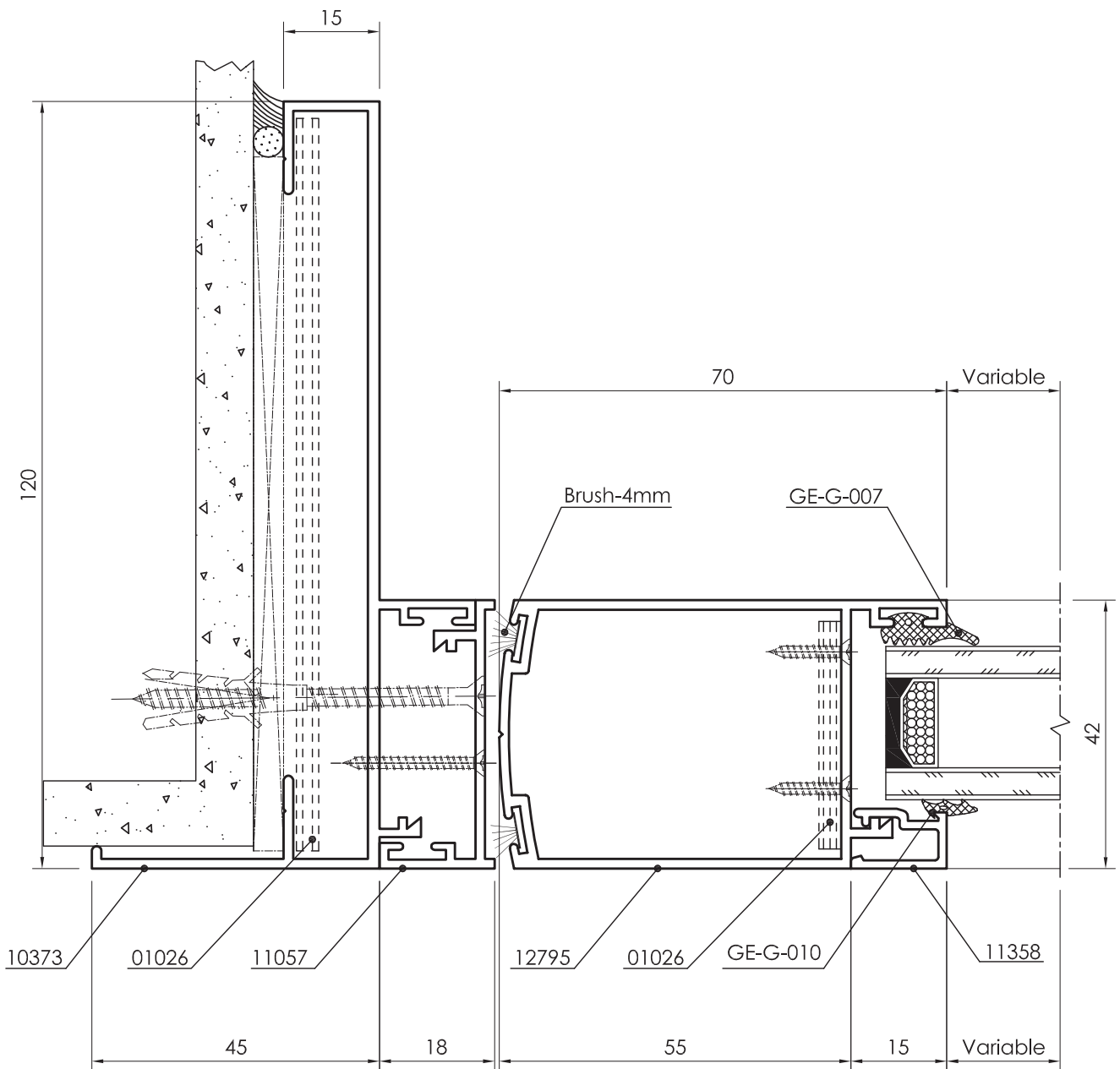


Top Swing Door Section
Detail - F1

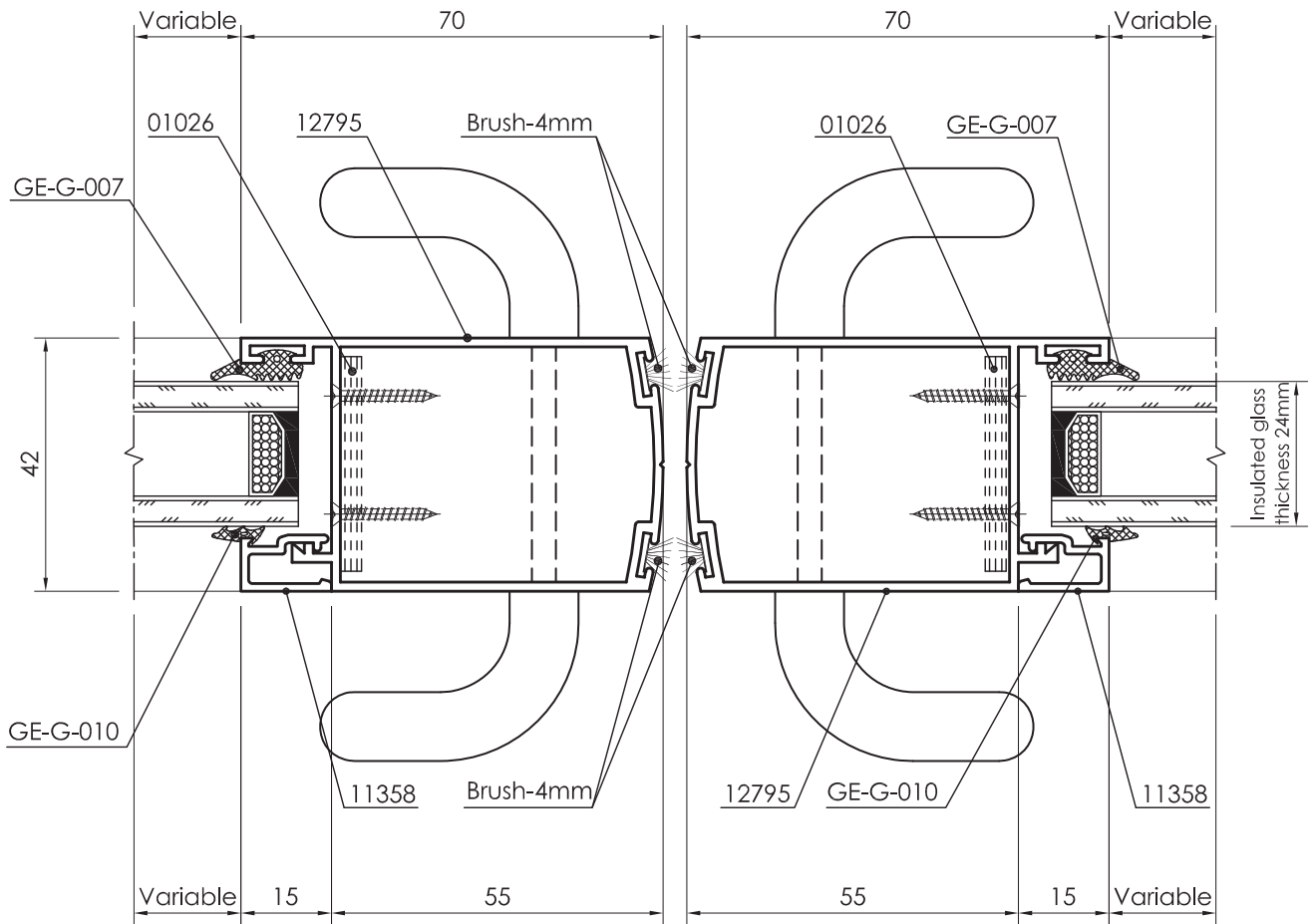


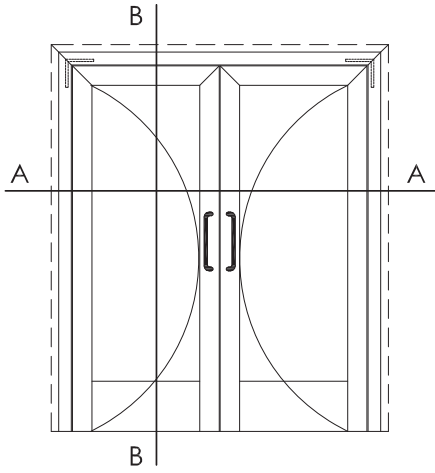
Left Swing Door Section

Detail - F2



Double Leaf Swing Door Section
Detail - F3

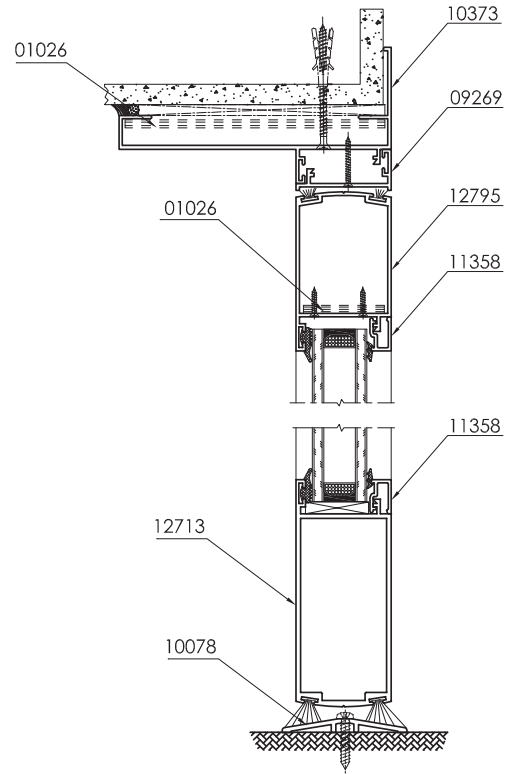




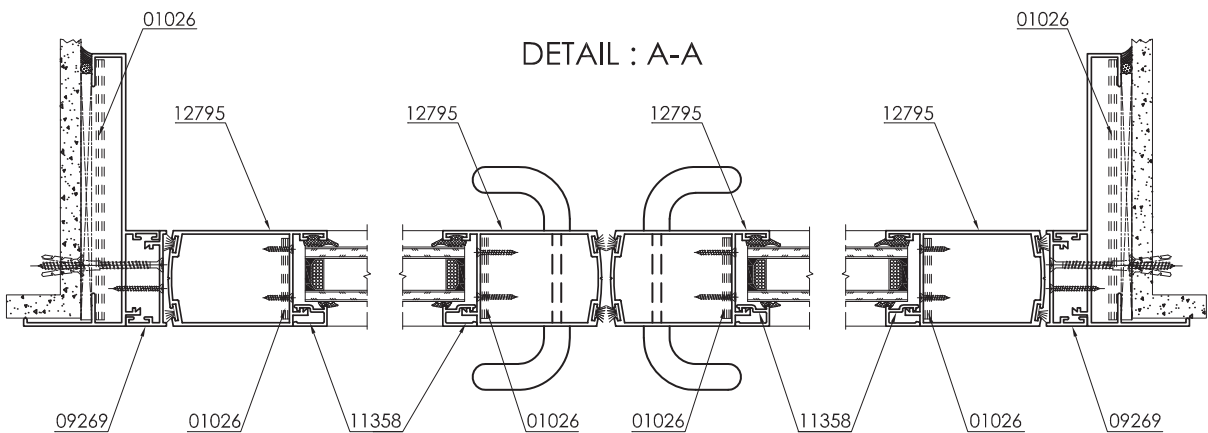
Double Leaf Swing Door

PROFILES		
Description	Shape	Section No.
Bottom Swing		12713
Sash Swing		12795
Frame		10373
Threshold		10078
Reverse		09269
Glazing Bead		11358
Angle 40*40*3.5		01026

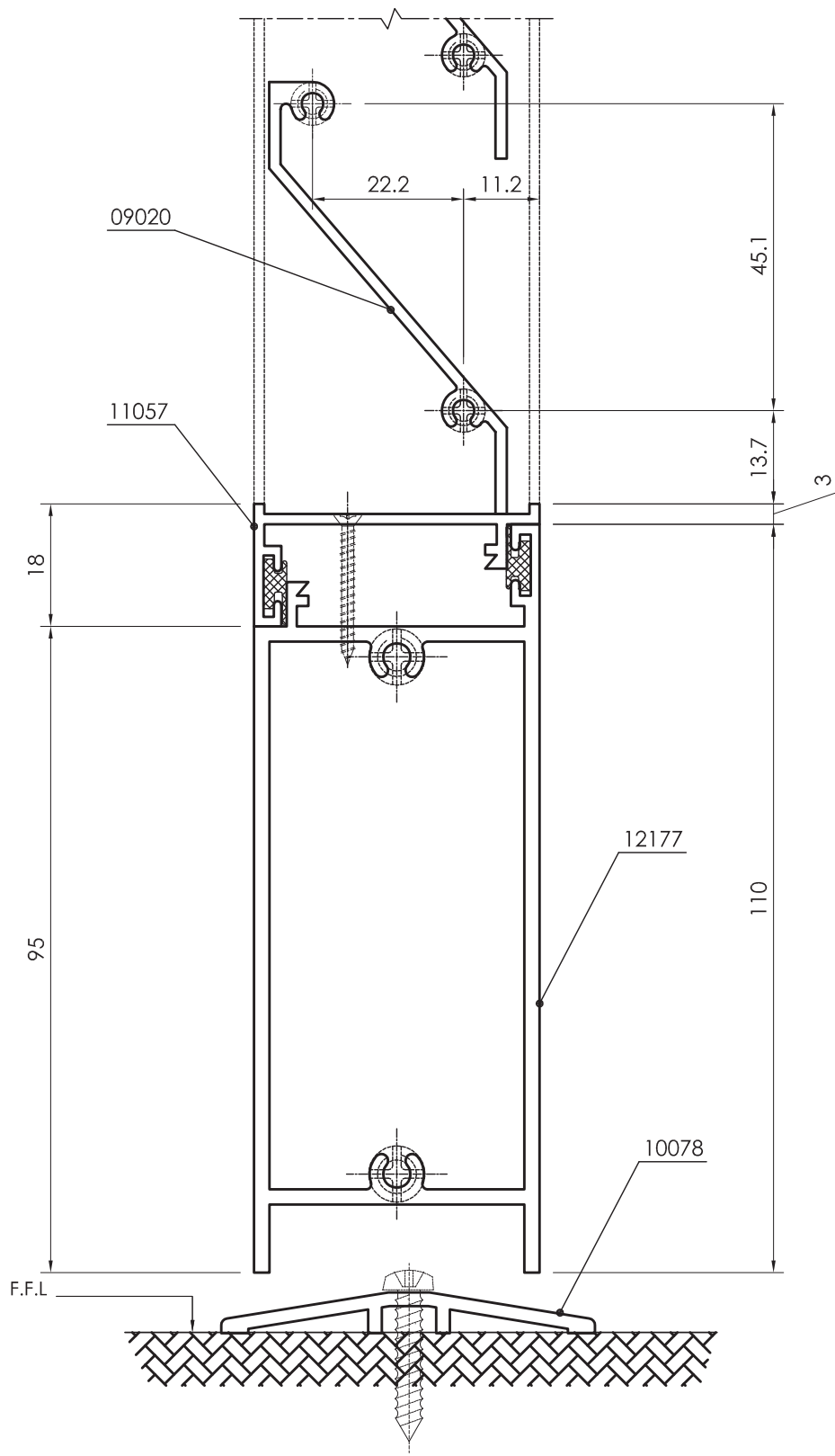
DETAIL : B-B



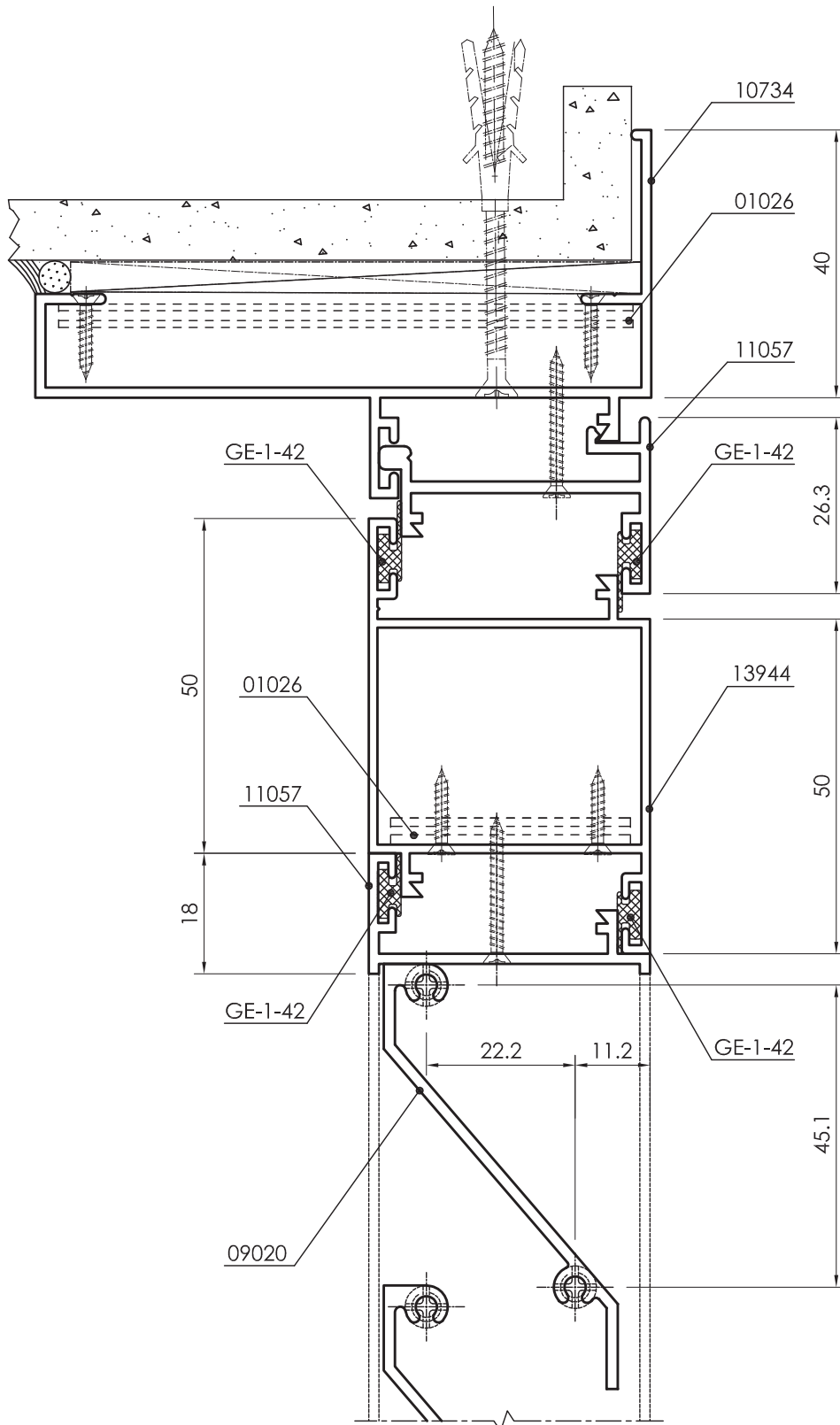
DETAIL : A-A



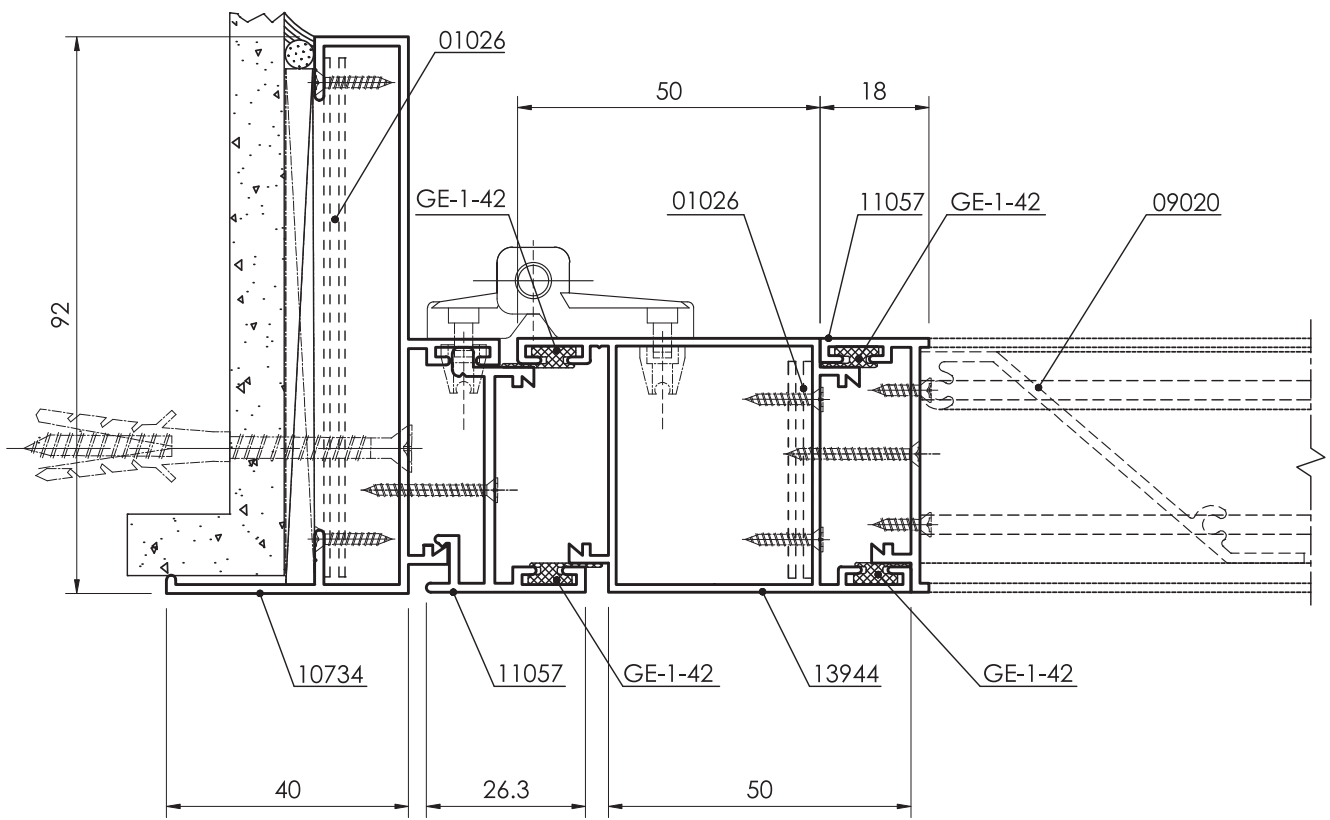
Louver Door Bottom-Outward Opening
Detail - T



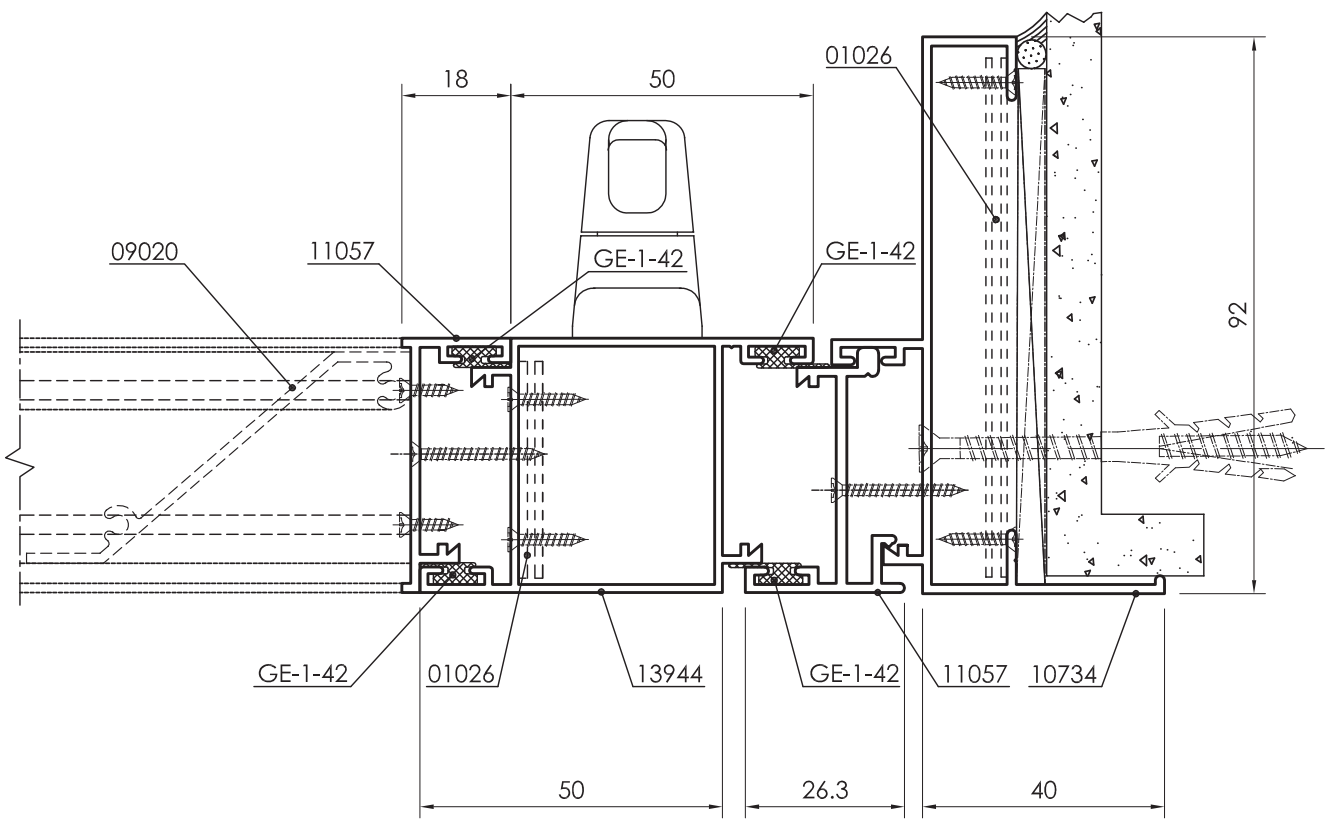
Louver Door Top-Outward Opening
Detail -T1

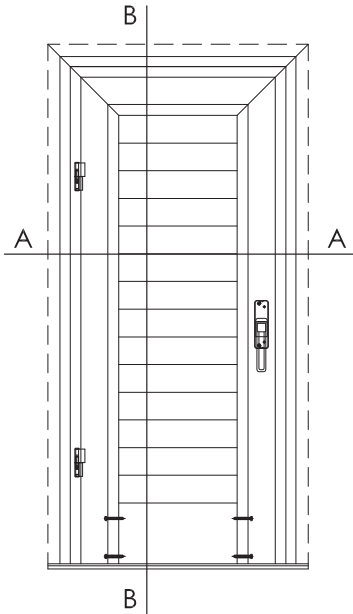


Louver Door Left Side-Outward Opening
Detail - T2



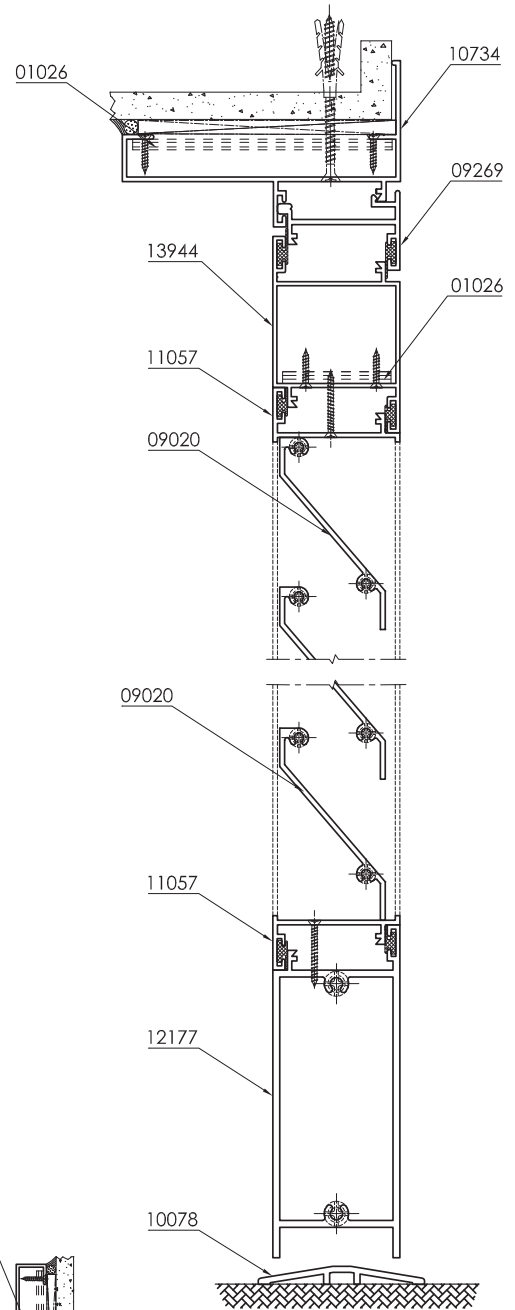
Louver Door Right Side-Outward Opening
Detail - T3





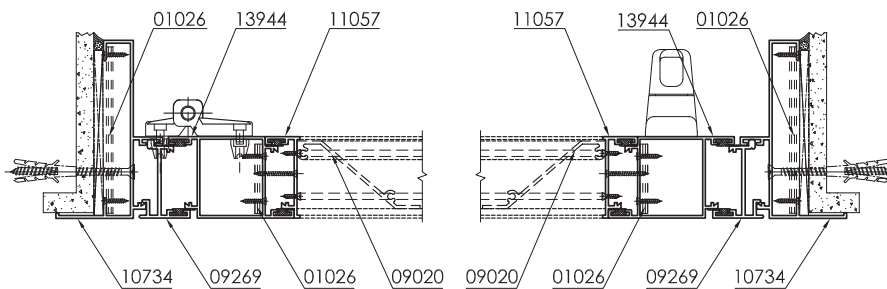
Single Leaf Louver Door
(Outward Opening)

DETAIL : B-B

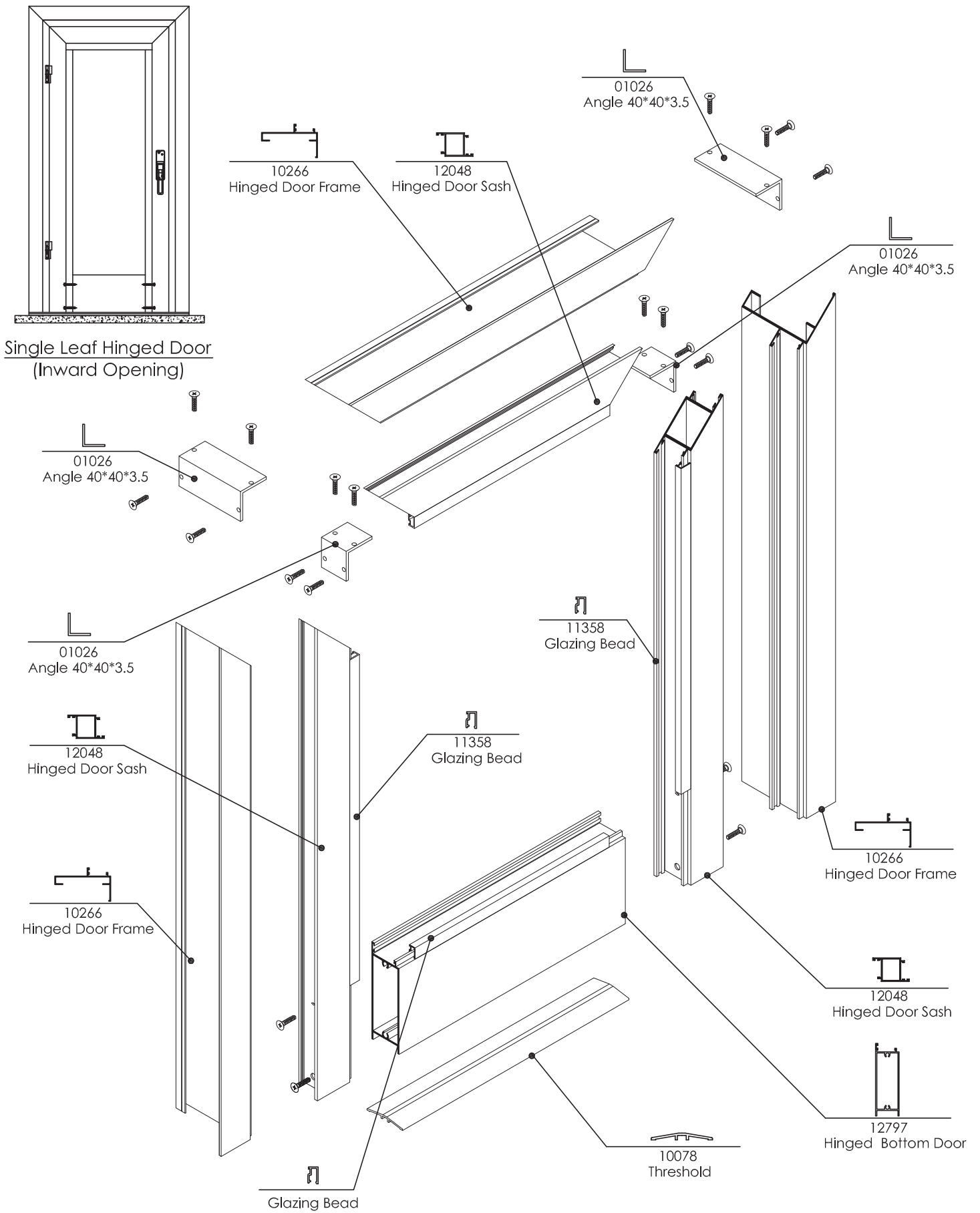


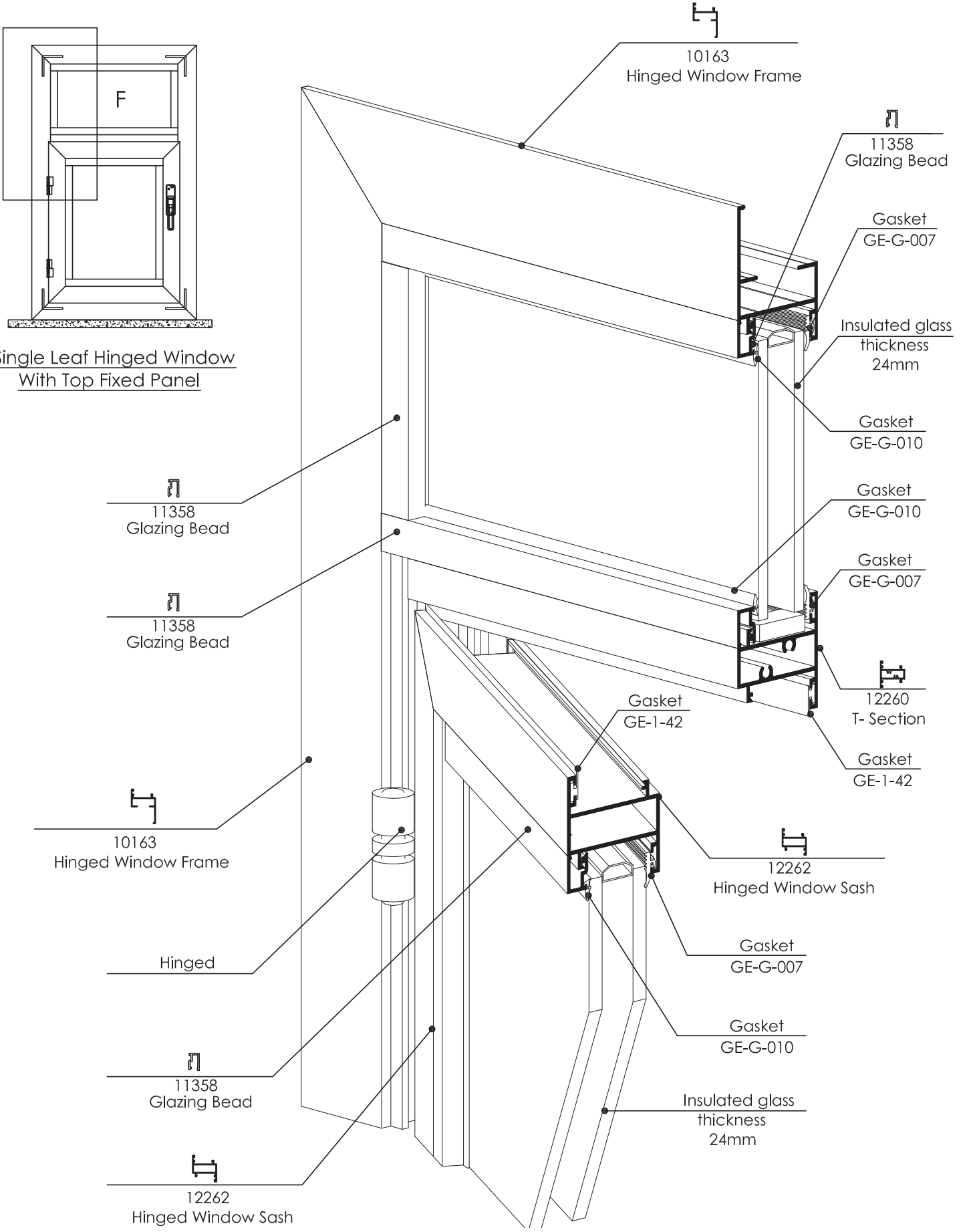
PROFILES		
Description	Shape	Section No.
Bottom Door		12177
Frame		10734
Sash		13944
Louver		09020
Adaptor		11057
Threshold		10078
Reverse		09269
Glazing Bead		11358
Angle 40*40*3.5		01026

DETAIL : A-A

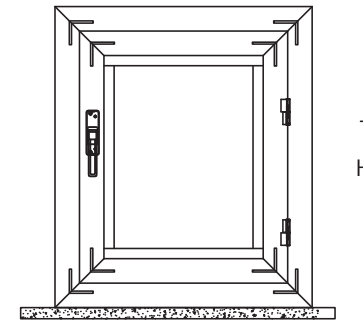


3D SECTIONS

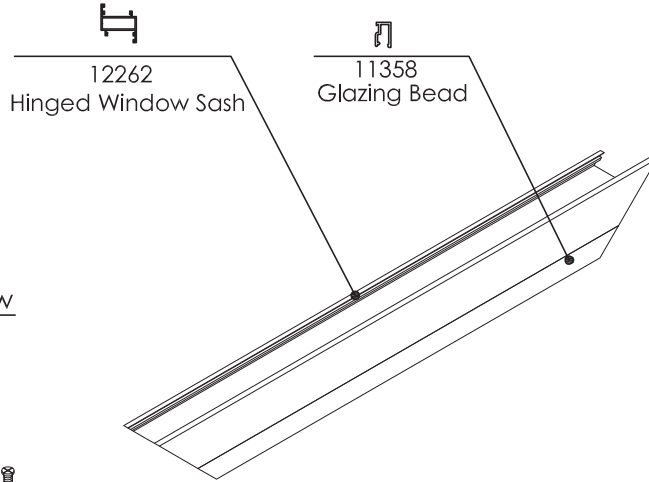




Single Leaf Hinged Window With Top Fixed Panel

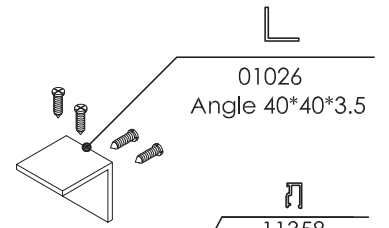


Single Leaf Hinged Window Sash



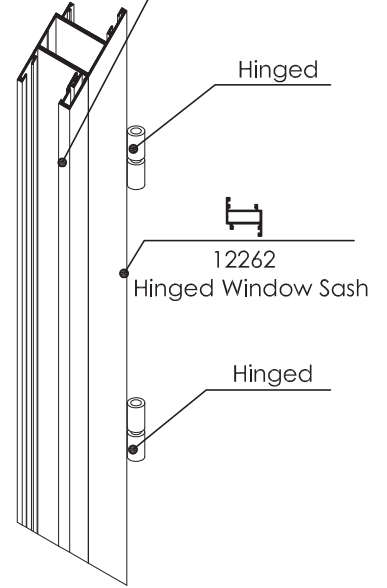
12262 Hinged Window Sash

11358 Glazing Bead



01026 Angle 40*40*3.5

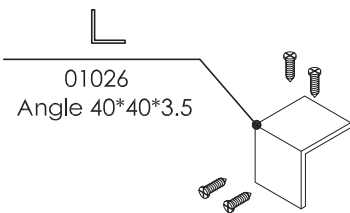
11358 Glazing Bead



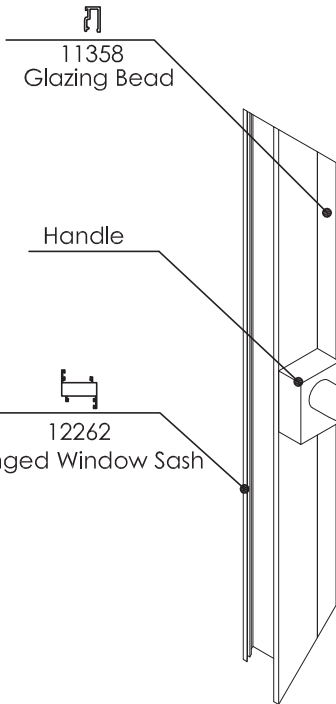
Hinged

12262 Hinged Window Sash

Hinged



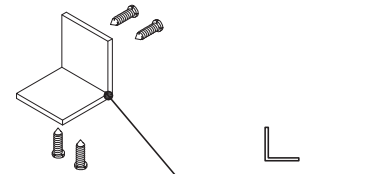
01026 Angle 40*40*3.5



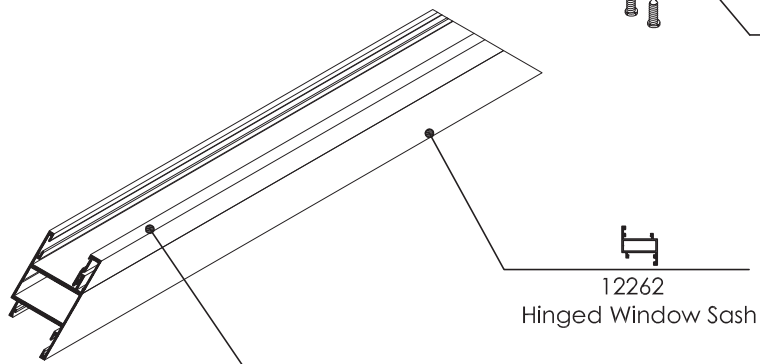
11358 Glazing Bead

Handle

12262 Hinged Window Sash

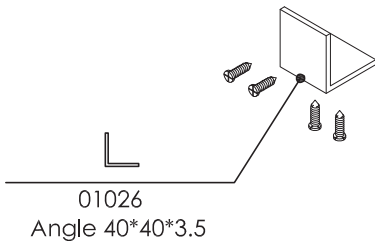


01026 Angle 40*40*3.5

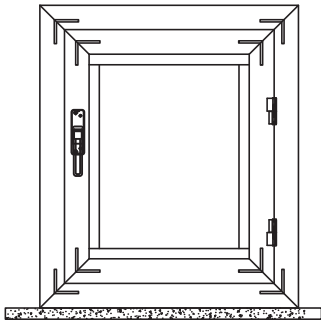


12262 Hinged Window Sash

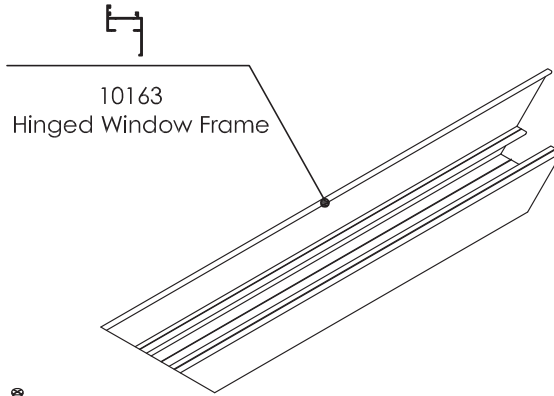
11358 Glazing Bead



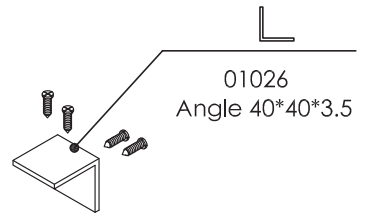
01026 Angle 40*40*3.5



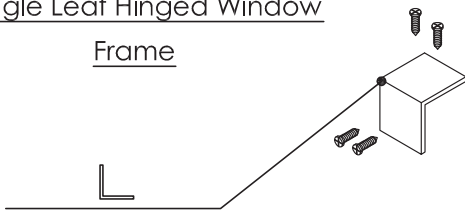
Single Leaf Hinged Window
Frame



10163
Hinged Window Frame



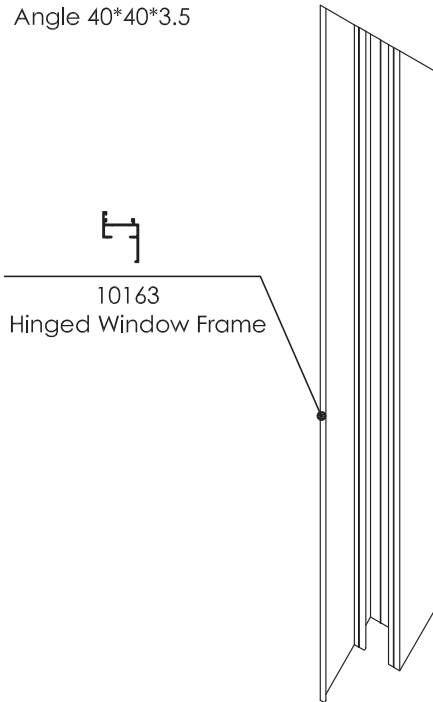
01026
Angle 40*40*3.5



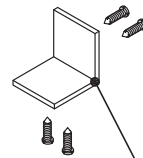
01026
Angle 40*40*3.5



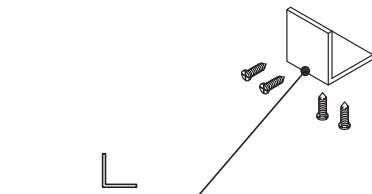
10163
Hinged Window Frame



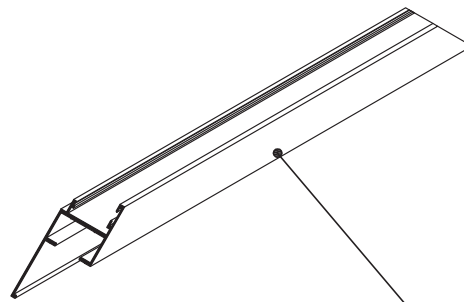
10163
Hinged Window Frame



01026
Angle 40*40*3.5



01026
Angle 40*40*3.5



10163
Hinged Window Frame

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