

VOLUME # 3

Section Catalogue

Now we started at Wooden Design
services for Aluminium Product

Buraqsys STUDIO

GR GROUP

Aluminum Door & Window Section All Types of Architectural & Engineering Profiles

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Manufacturing Profiles for
Aluminium Doors, Windows,
Double Glazed Windows,
Curtain Walls, Angles, Strips, Pipes & Rods



GR ALUMINIUM - QUALITY WITH ECONOMY

HISTORY OF ALUMINIUM

The story of aluminum's history of use in the world now stretches over centuries. The start was a modest one, however. During ancient times, aluminum oxide clays were used in hide tanning, first aid, fabric dyeing and fireproofing. Aluminum existed as a free metal in 1825 when Danish chemist Hans-Christian Oersted successfully extracted it from the earth. For the next 60 years, scientists learned more about the metal and sought better ways to obtain it. Techniques to produce aluminum in ways modestly cost-effective emerged in 1889. Because of the complexities of refining aluminum from ore, bauxite aluminum was considered more rare and precious than gold or silver through most of the 19th century.

This lightweight, 100 percent-recyclable metal has since become a foundation of our country's infrastructure. Used in packaging, automotive, energy, construction, transportation, energy, aerospace and defense applications, to name a few—aluminum's impact is so profound that historians may one day look back on our times and declare this "The Age of Aluminum."

Aluminum is often referred to as a "miracle metal" and for good reason. Its long list of inherent properties—lightweight, corrosion resistant, easily formed, highly conductive, highly reflective, non-toxic, durable and recyclable—gives manufacturers and designers a wide range of options for product innovation and process improvements.

Aluminum is used in hundreds of industries, especially in the fields of transportation, aerospace, packaging, building and construction. The business leaders & industrialists recognized aluminum's superior properties. That is why Aluminum production has become a global industry.

GR INDUSTRY

In Pakistan, G.R Metal industry is the leading metal products manufacturing industry working since 1985. It has achieved major mile stones in the production of Aluminum, Brass & Copper products. Since 1985 to present, GR Metal has contributed to the developmental success of Aluminium & Copper in Pakistan. The directors of GR Metal are working hard day & night with honesty & passion to maintain standards in the market and also to meet the demands. Market of GR Metal is expanding rapidly because of its standard & quality products. To meet the market, GR Metal has allocated its two industries working previously in Gujranwala to operate on Copper & Brass and the industry which is positioned in Lahore has been made a separate industry for Aluminium production. GR Metal is earnest to deliver the highest standard of products & services to clients giving them access to the widest spectrum of technology & material. GR Metal is offering a vast array of products ranging from:

1. Aluminium Door & Window Sections
2. Angle Strips
3. Channel Rods
4. Brass Rods, Pipes, Strips
5. Copper Rods, Strips, Wire Rope

First of all, the purchased RAW material poured in furnace & by placing hot top, Shaft is produced on fully automatic plant. After that, addition of alloying chemicals in molten aluminium under the supervision of Engineers & Experts to produce international standard 6063 Aluminum Alloy which is the best alloy for architectural work in the world. After getting the temperature on automatic hot log furnace, Shaft comes to the latest automatic PLC control extrusion where the experts extrude material form it into desired shapes, strength & density. Then material comes to the automatic run out where it is cut according to the requirement. To get the maximum hardness, T-6 condition is adopted & this is done under the keen observation by taking care of time & temperature. After this the whole material comes to Packing & Finishing division where our three standard processes take place:

1. ANODISING

Our anodizing unit is imported where 12-25 microns can be obtained. To maintain standards, all the chemicals used in this process are imported by the company itself. High standard of sealing & quality process is the guarantee of our standard. On this plant, we get the following colors:

- a. Dull
- b. Light Champagne
- c. Champagne
- d. Light Bronze
- e. Dark Bronze
- f. Jet Black

2. POWDER COATING

Our unit of powder coating is up to the standards & quality powder is used. Colors' are selected according to the public demand. Before coating, pre treatment is done to get the better coating. Maximum microns are given according to standards & curing is done in automatic oven.

3. WOOD DESIGN SERIES

According to the public demand, latest unit is installed for wood effect. In this unit high quality powder & imported film paper is used. That is why our wood design series are matchless.

After getting through all these processes, once again the quality of material is checked by experts. Then it comes in packing division where it is packed with care. GR Aluminum uses printing tube so that people may differentiate between the original & the copied products in market. In GR Aluminum, research & development process is carried out for all the processes to maintain quality & to improve the standards. For this purpose, laboratory is equipped with high quality testing instruments.

GR Metal has introduced one of the largest Aluminum architectural profiles in Pakistan with over 29 years of credible experience & has secured a good position in Metal industry because of its quality work & new trends. It is situated in a prime location at 19 KM Multan Road, Lahore.

CHEMICALS COMPOSITION

	WT%	
	Min	Max
Silicon	0.41	0.46
Iron	0.15	0.19
Copper	-	0.02
Manganese	-	0.02
Magnesium	0.48	0.52
Chromium	0.02	
Titanium	0.02	
Other Each	0.02	
Other Total	0.10	

MECHANICALS PROPERTIES

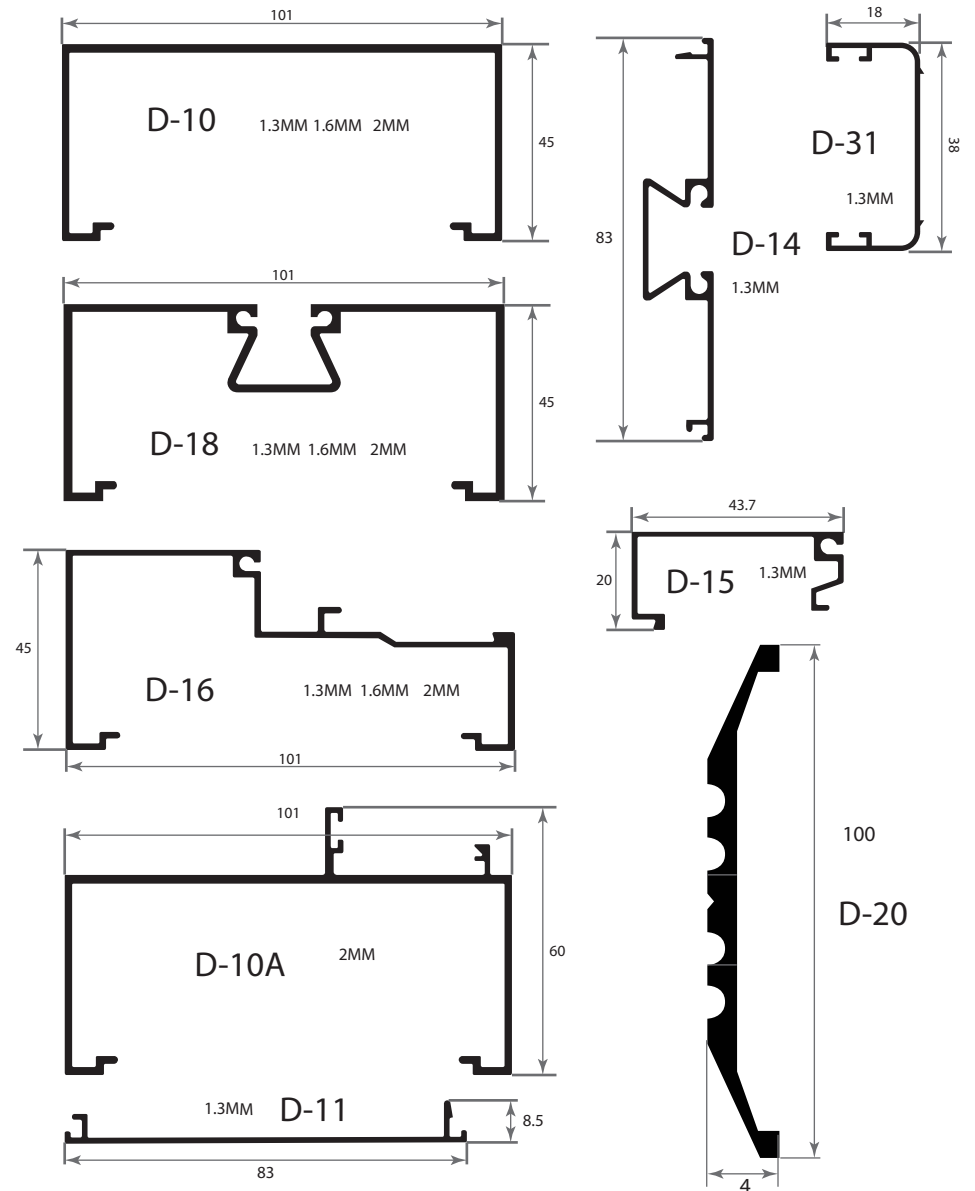
Ultimate Tensile Strength	205N/mm ²
Tensile Yield Strength	165N/mm ²
Elongation in 50mm	12%
Hardness (BHN)	65
Shear Strength	125N/mm ²
Fatigue Limit	70N/mm ²

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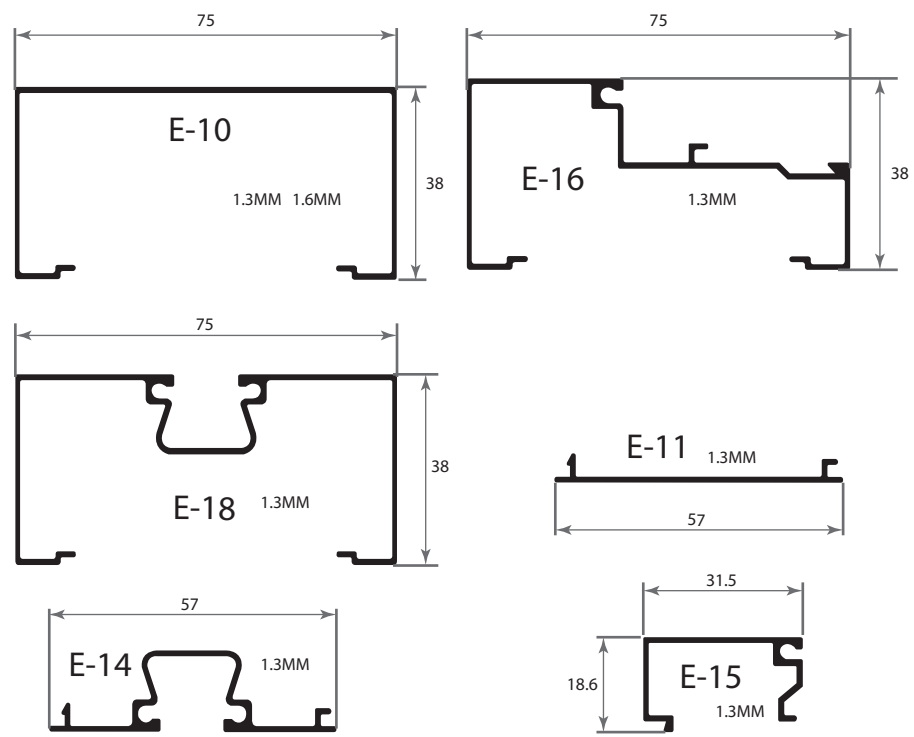
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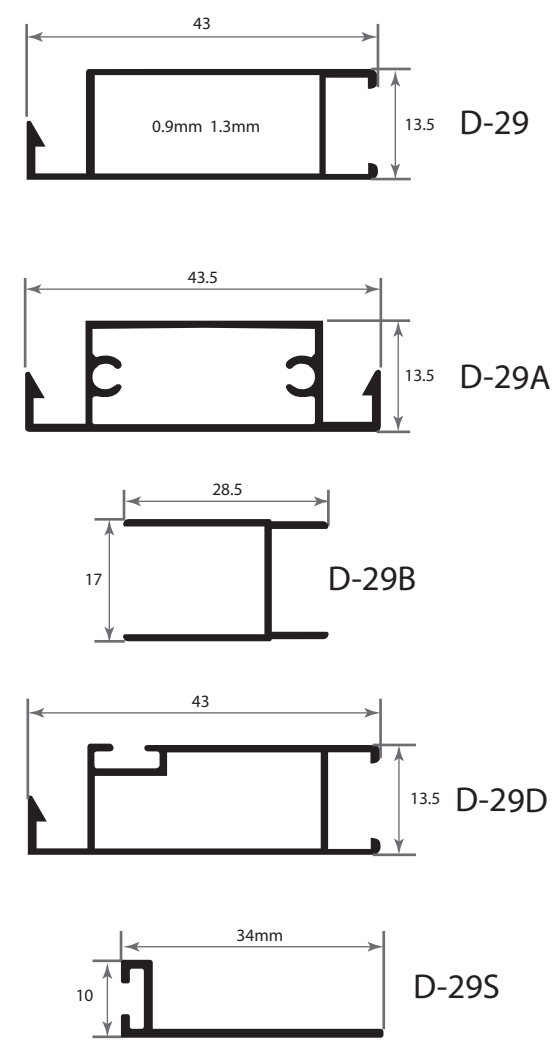
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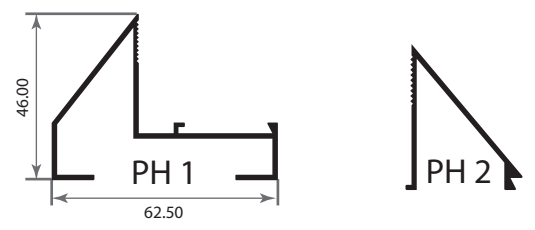
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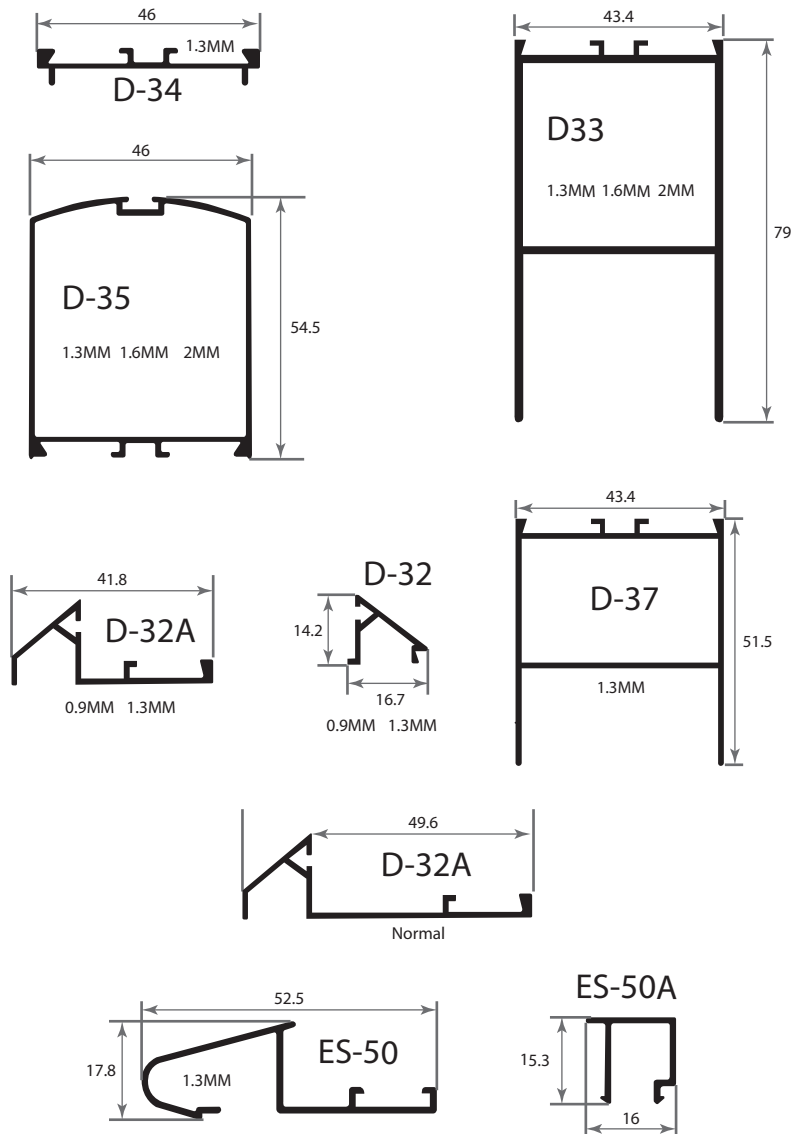
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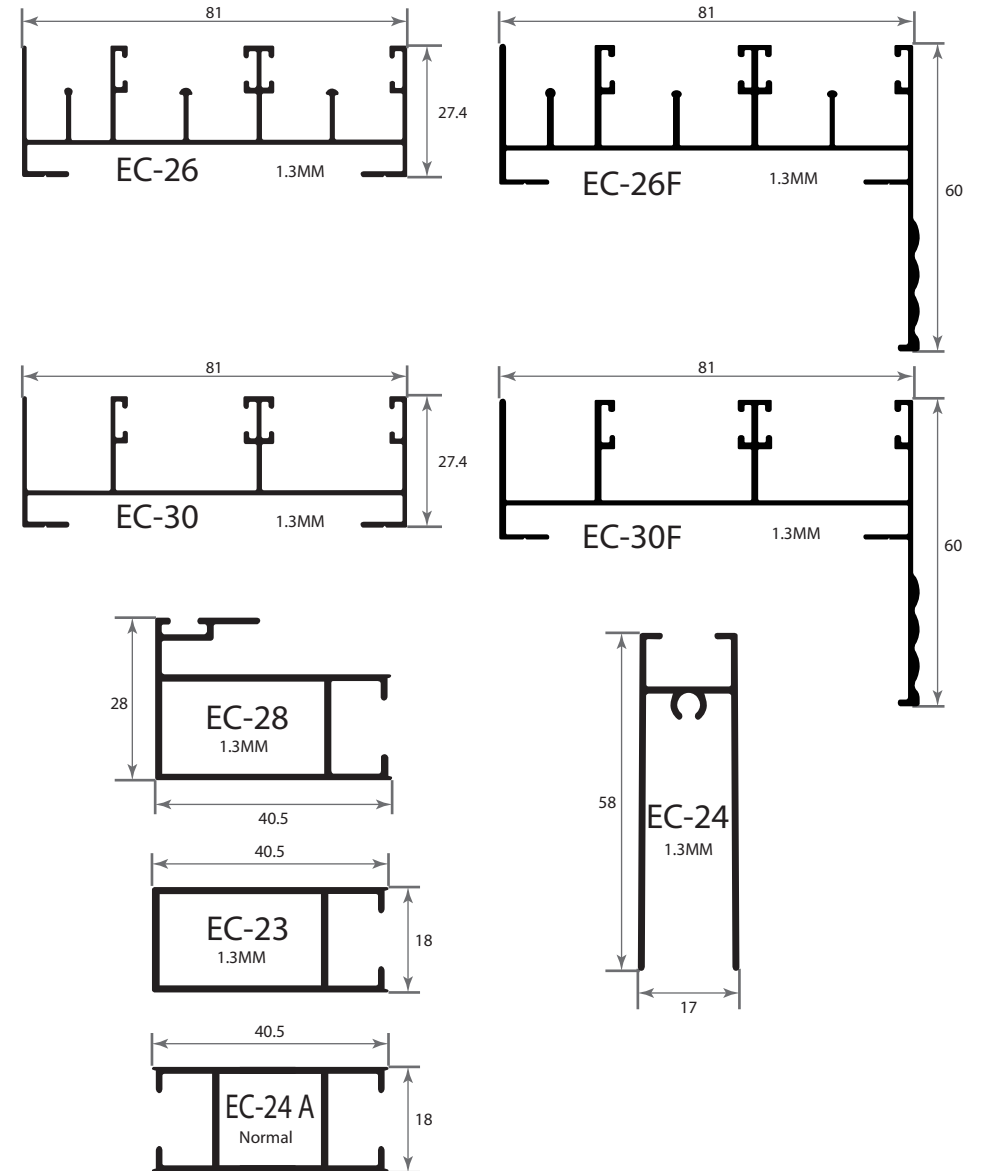
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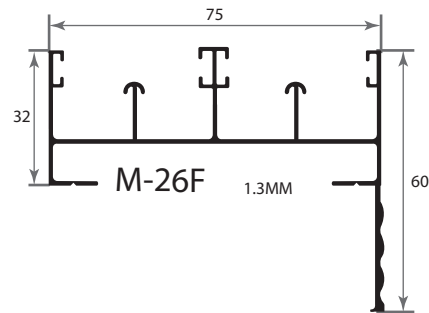
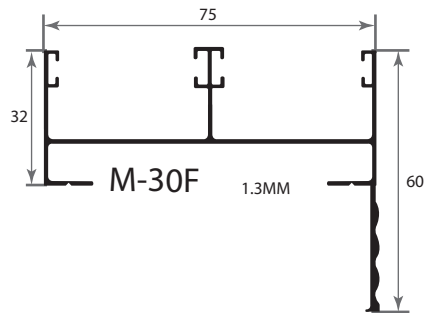
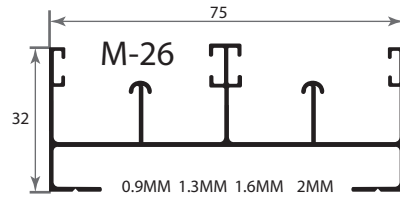
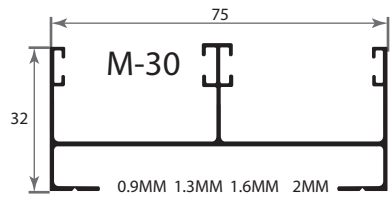
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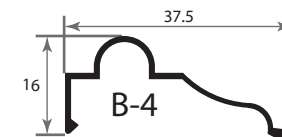
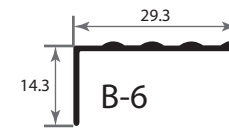
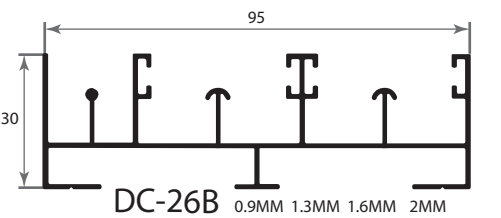
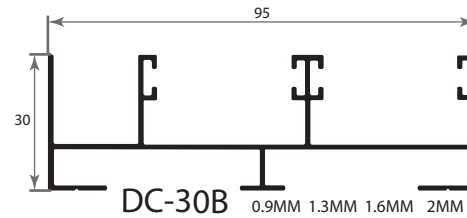
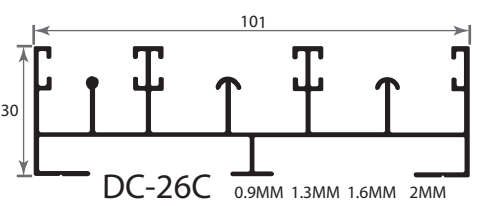
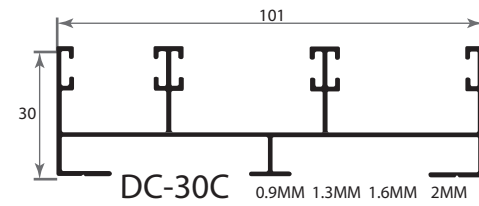
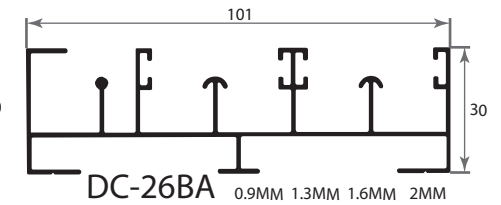
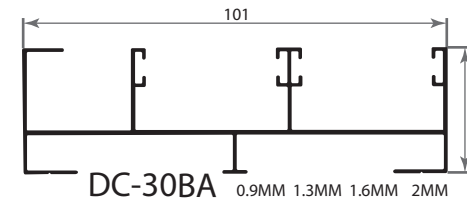
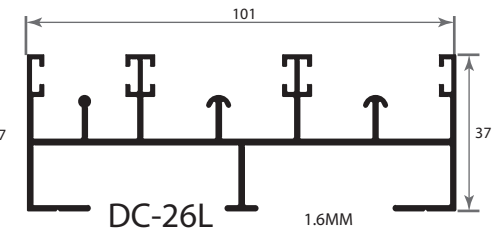
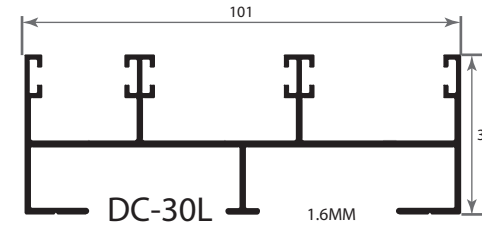
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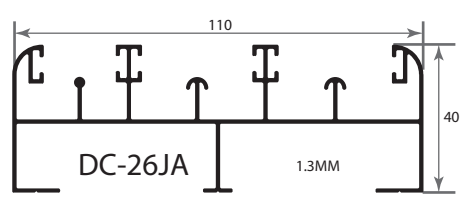
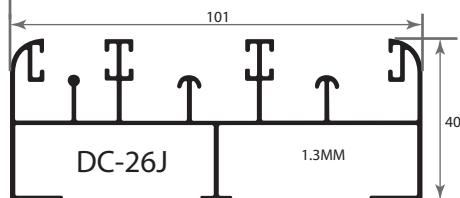
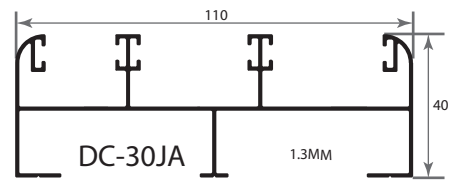
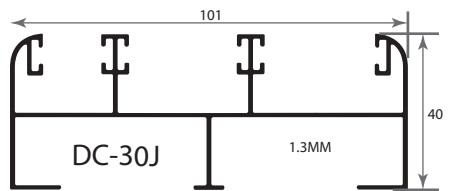
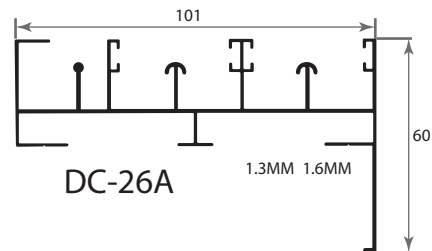
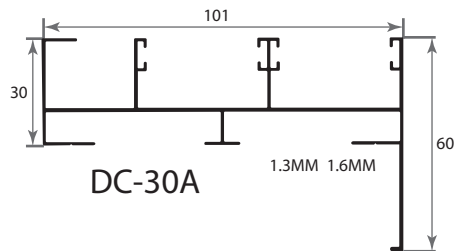
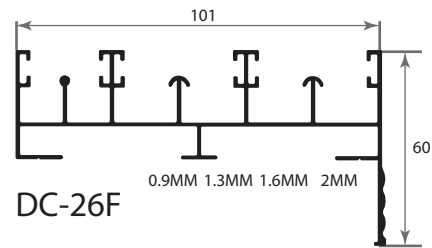
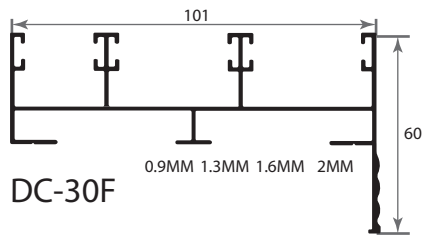
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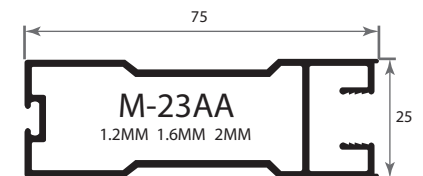
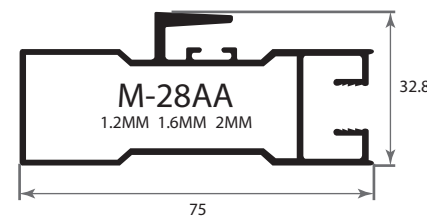
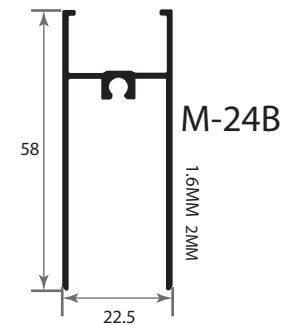
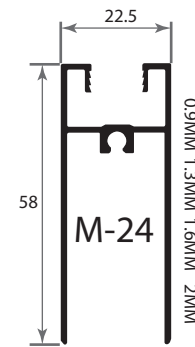
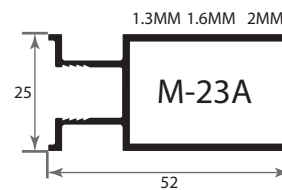
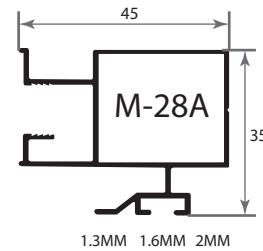
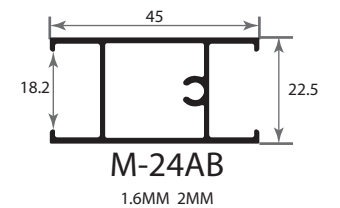
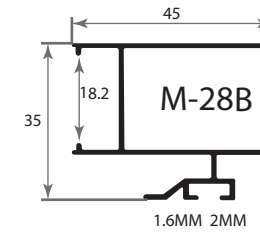
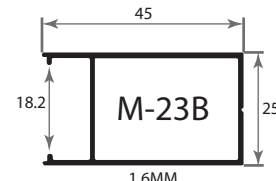
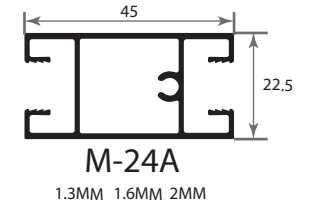
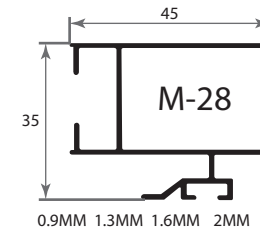
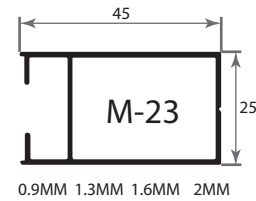
BOX SLIDING WINDOW SECTIONS



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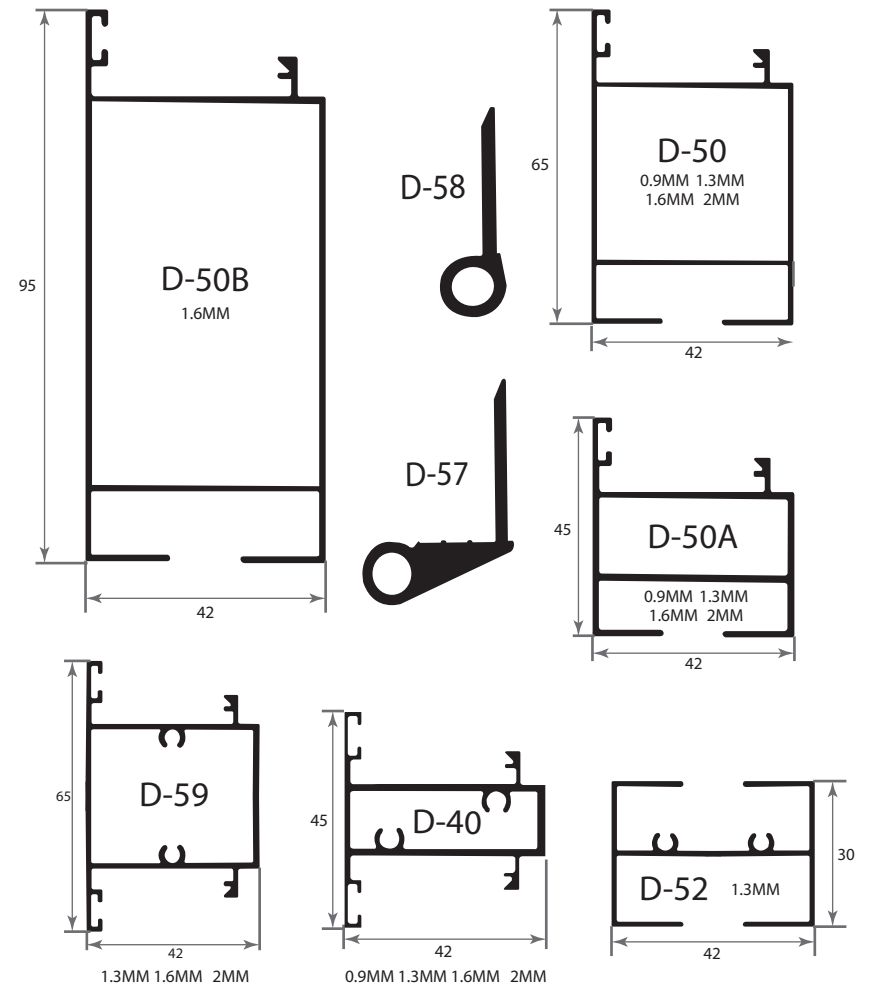
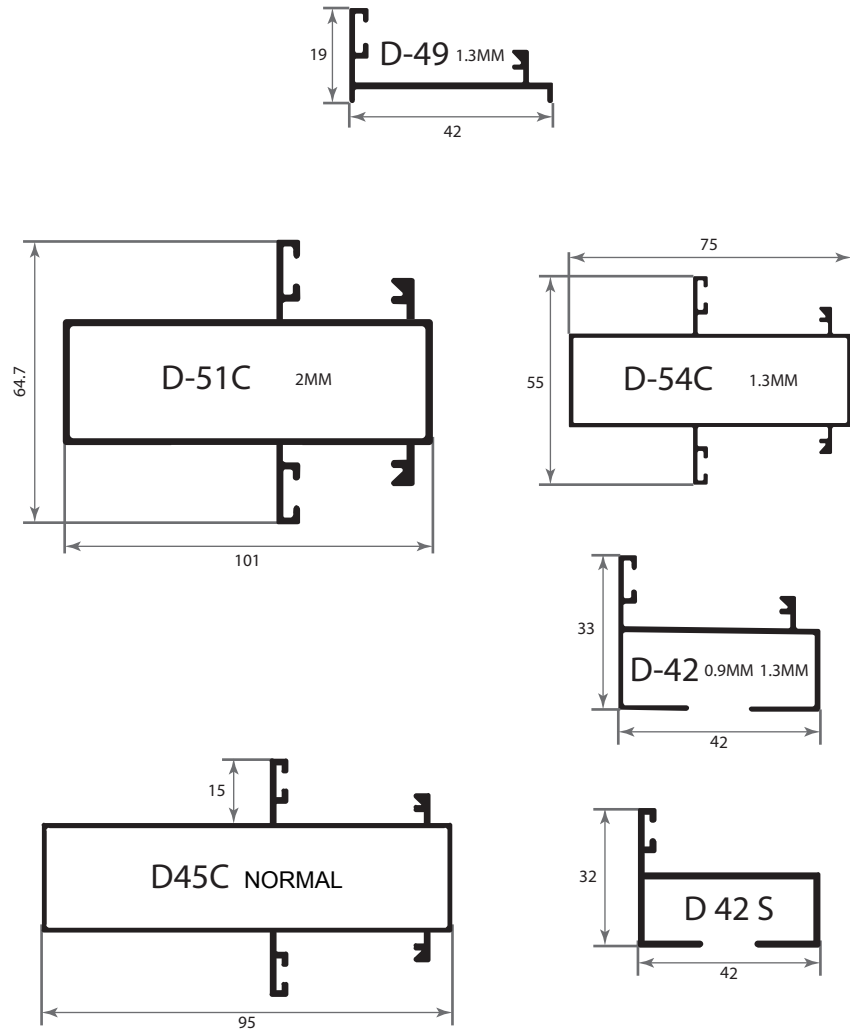


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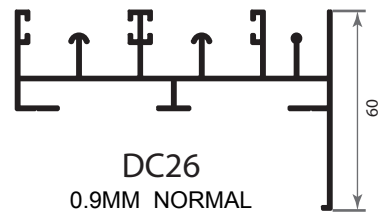
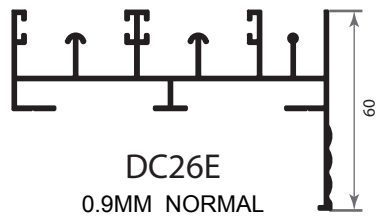
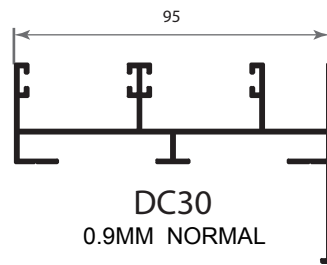
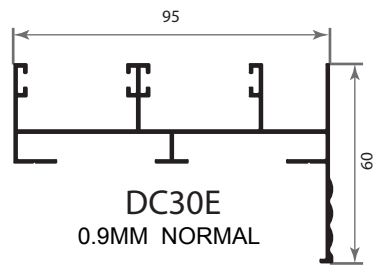
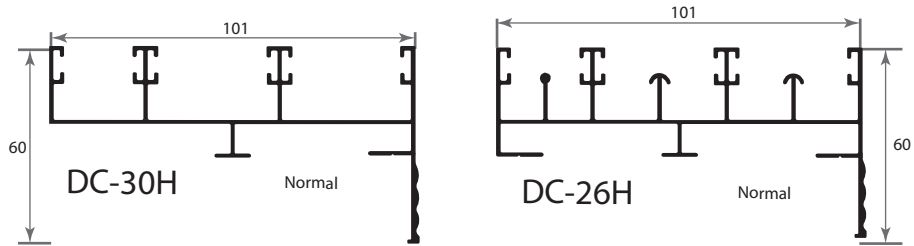


FIX & OPENABLE DOOR FRAME SECTIONS

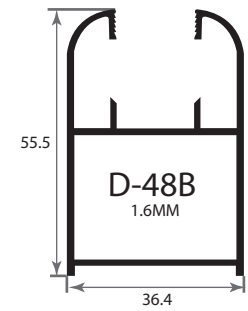
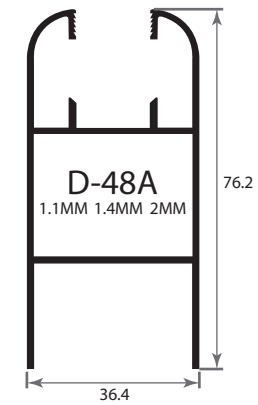
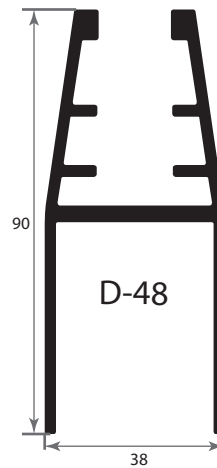
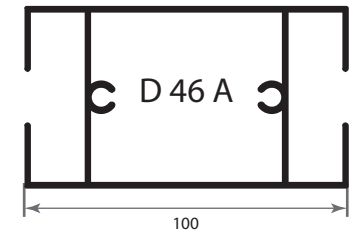
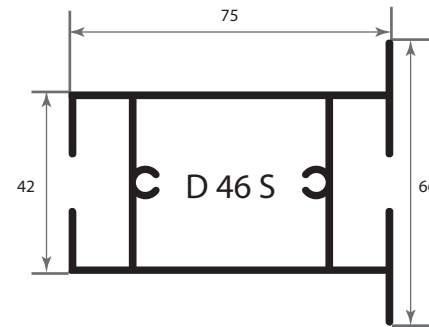
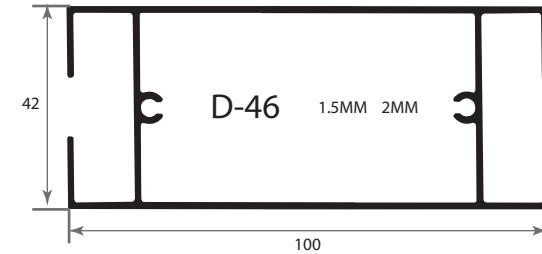
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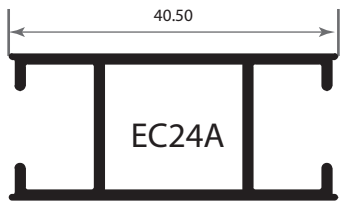
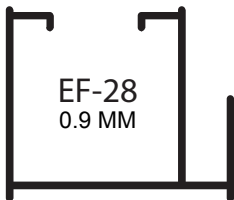
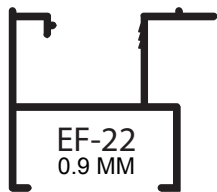
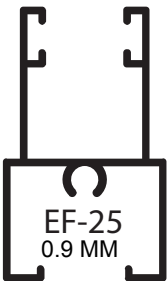
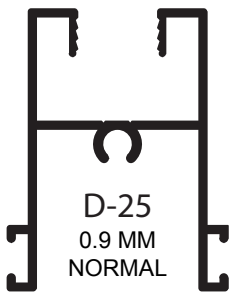
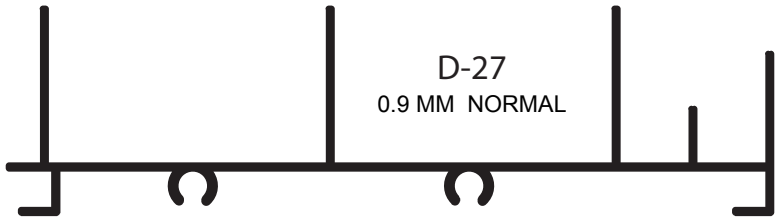
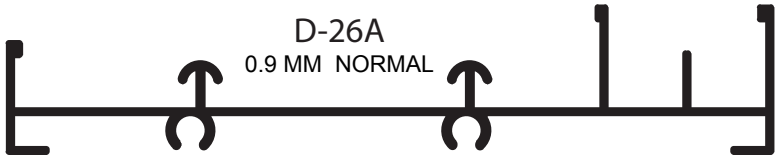
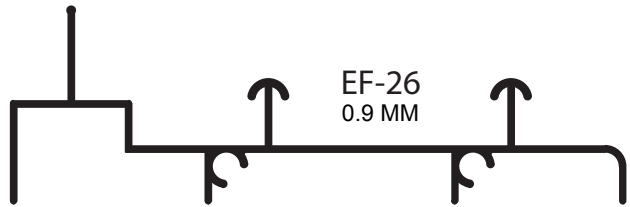


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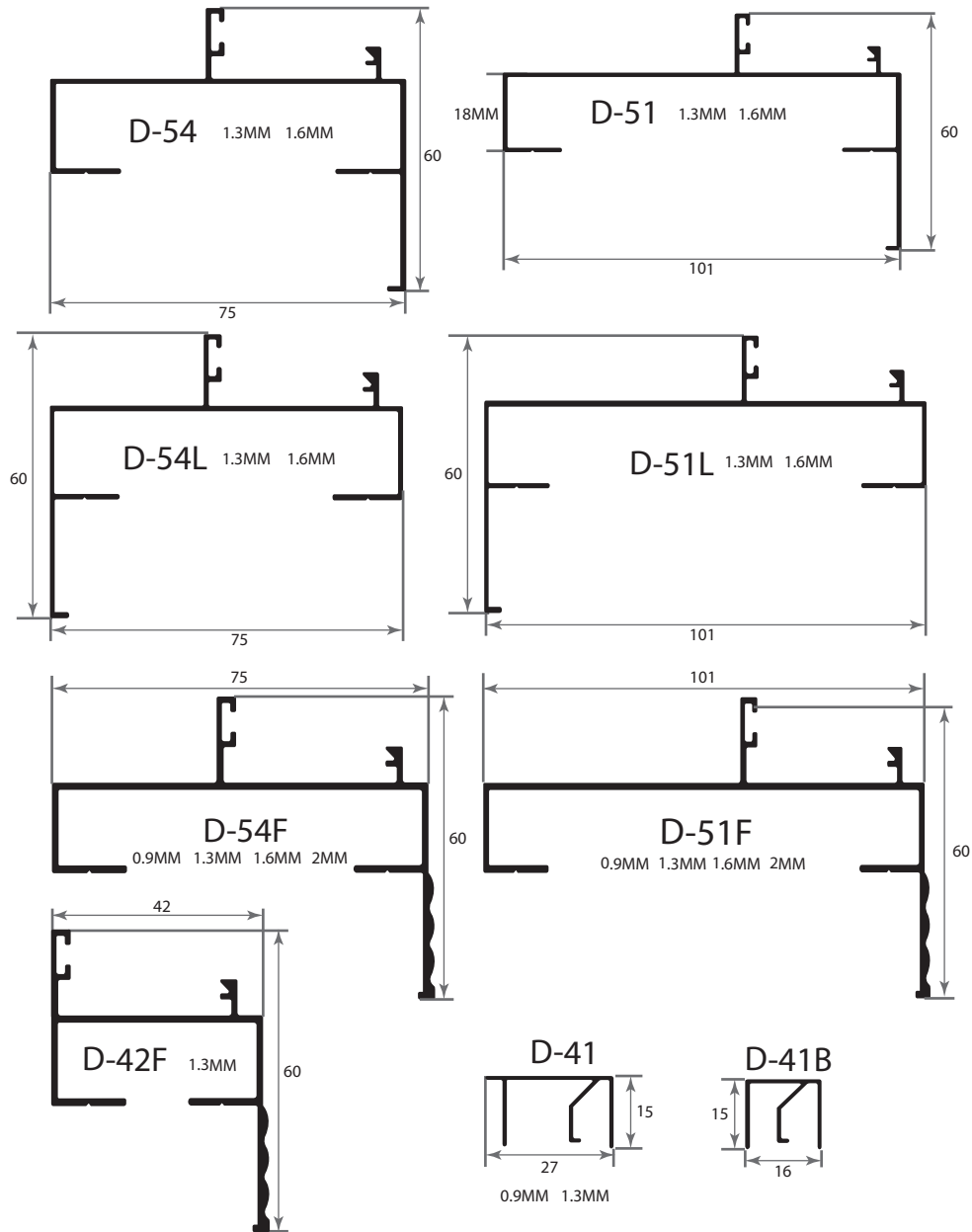


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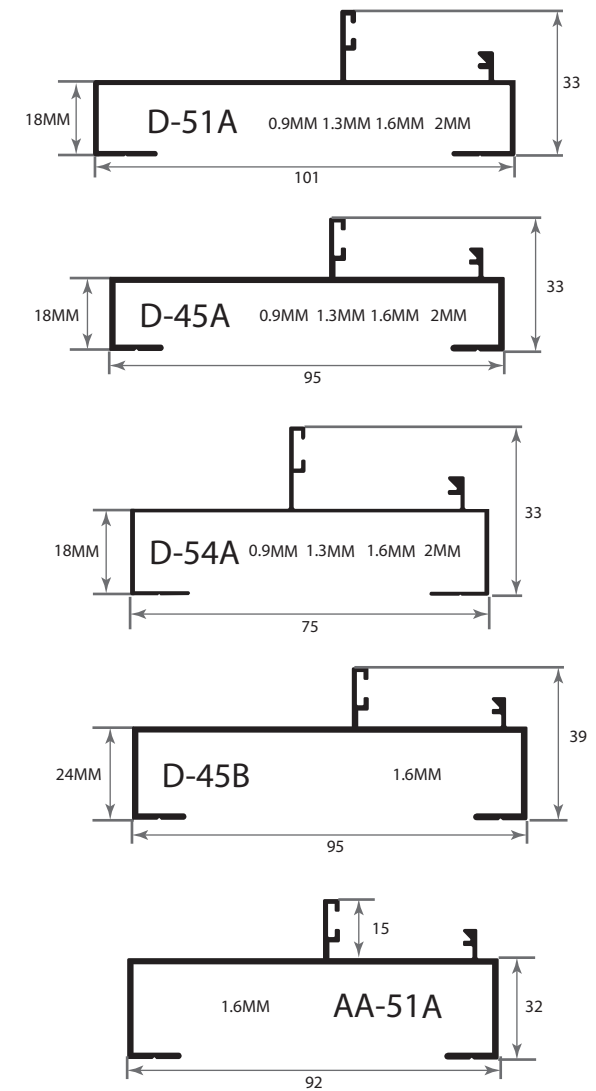
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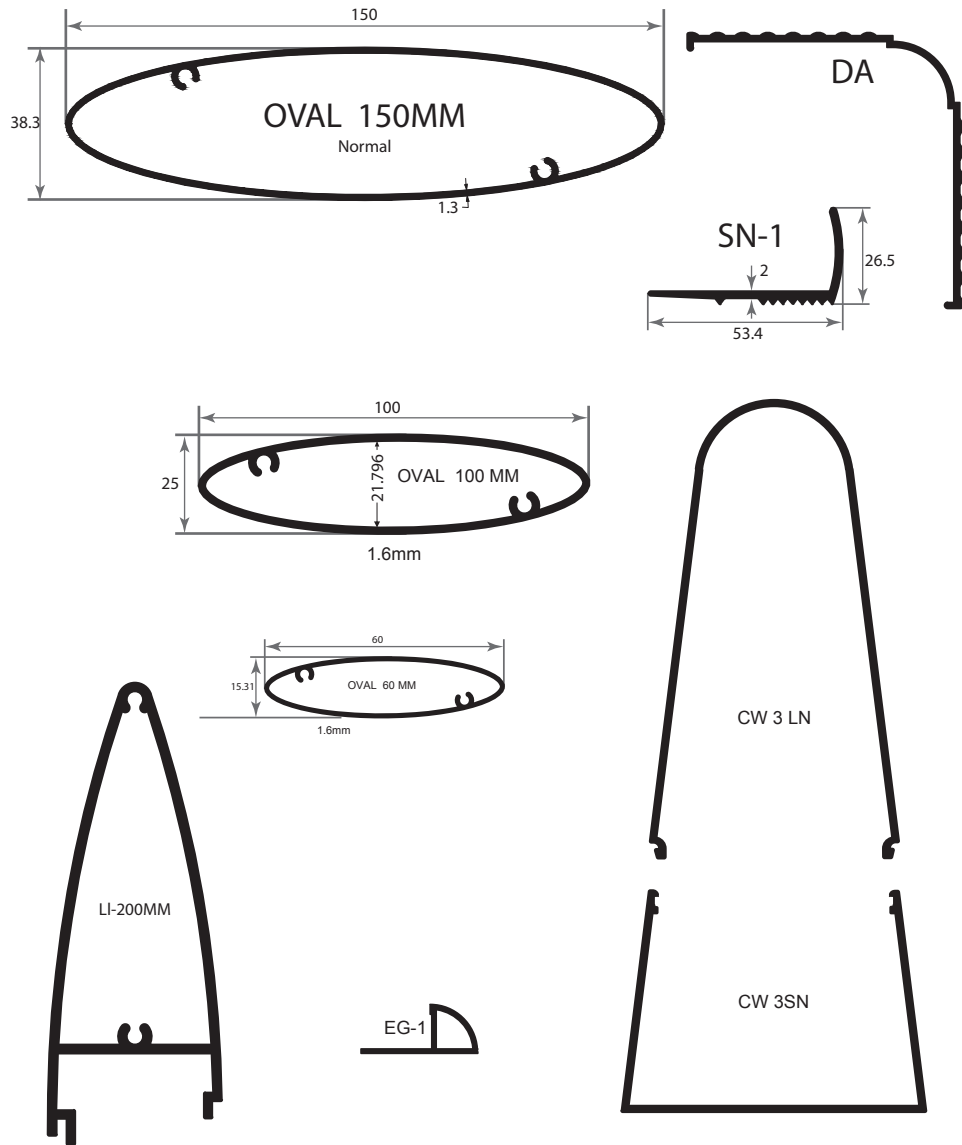
FIX & OPENABLE DOOR WINDOW SECTIONS



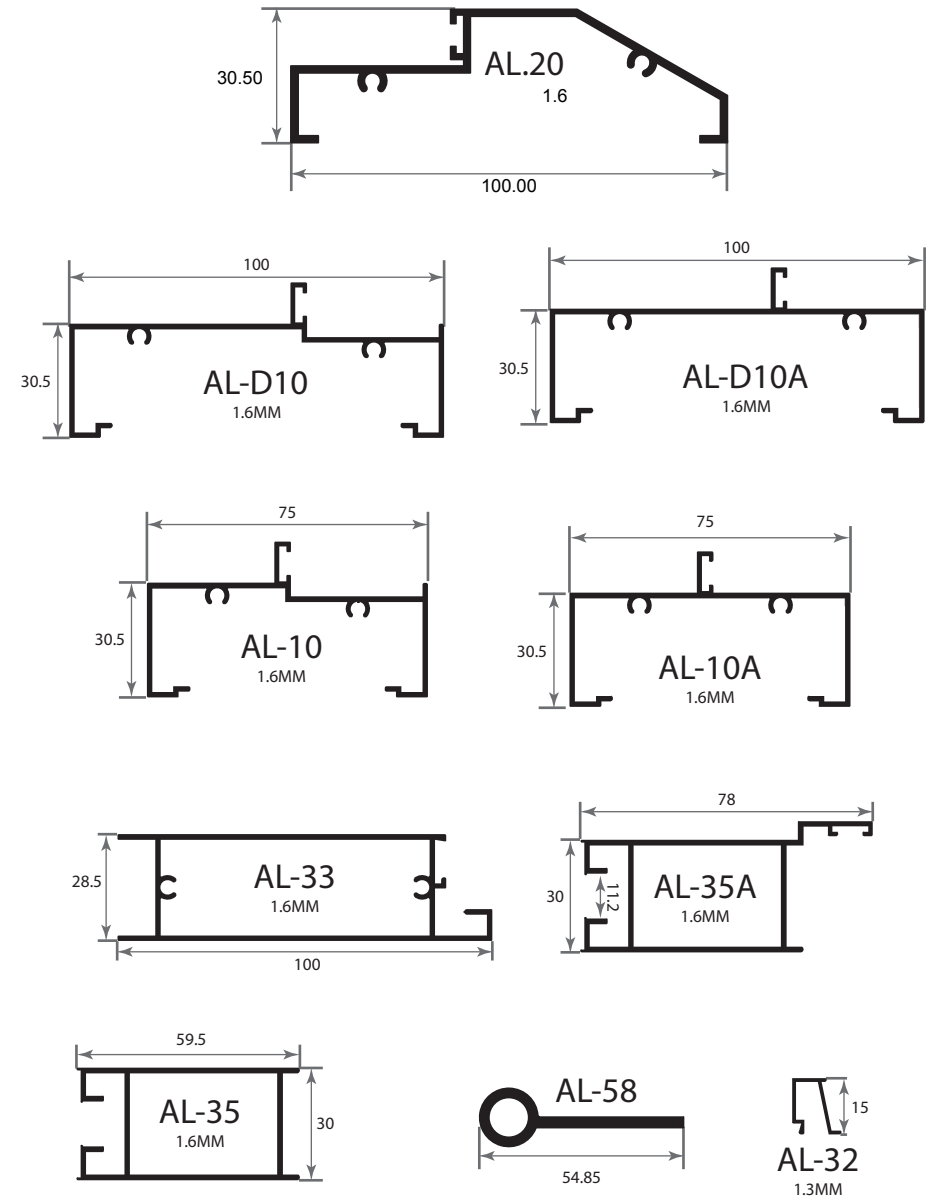
BOX & FIX DOOR WINDOW SECTIONS



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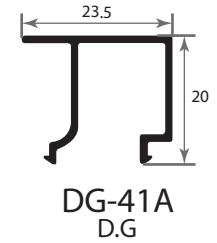
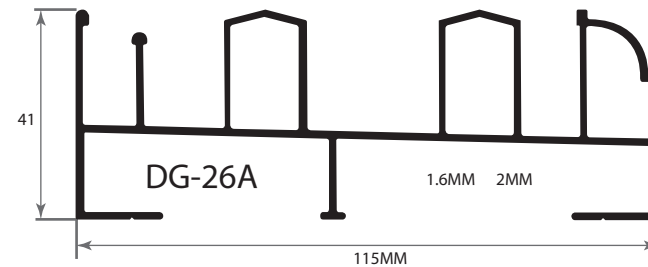
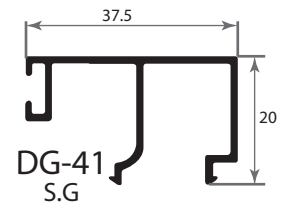
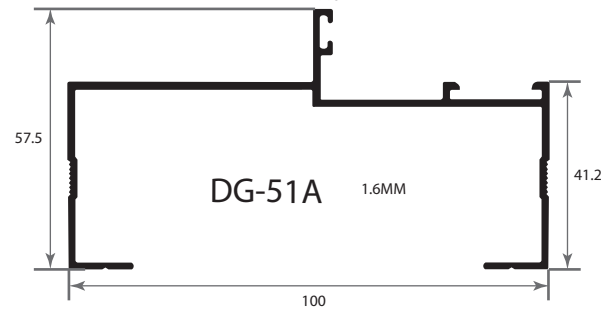
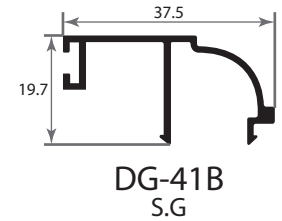
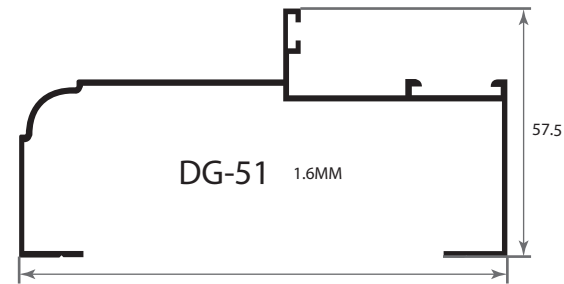
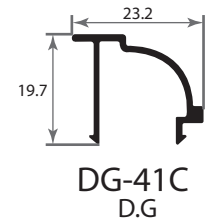
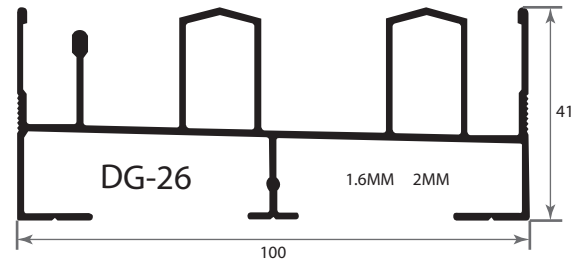
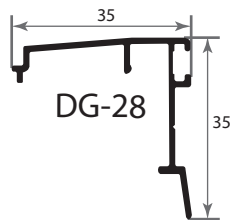
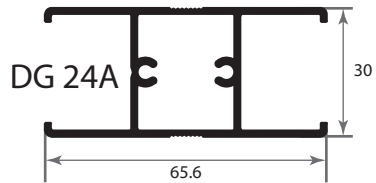
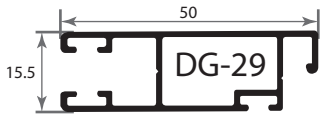
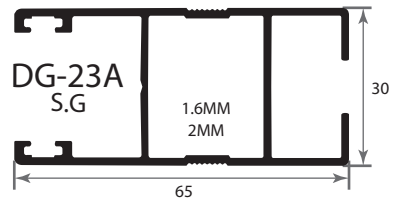
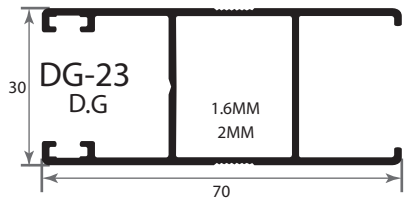


AL SERIES DOOR SECTIONS



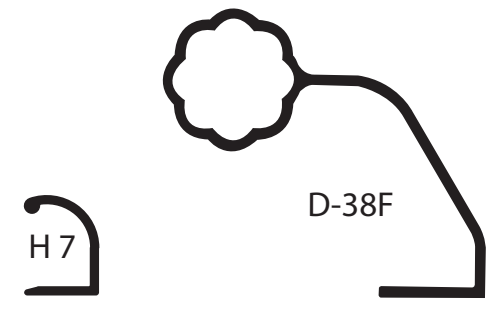
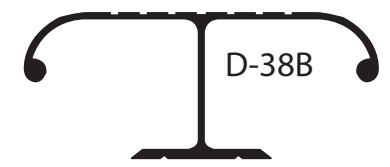
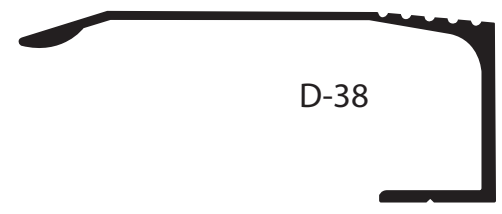
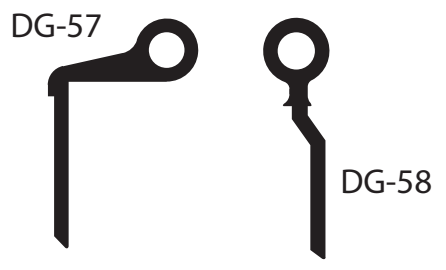
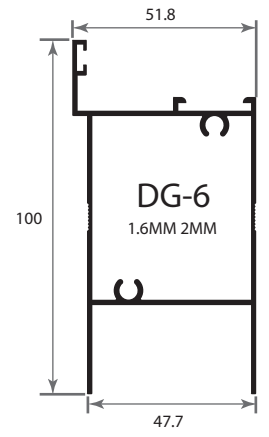
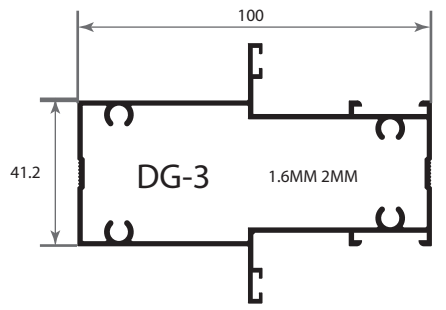
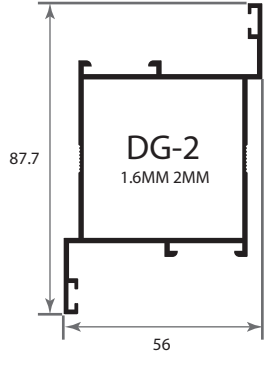
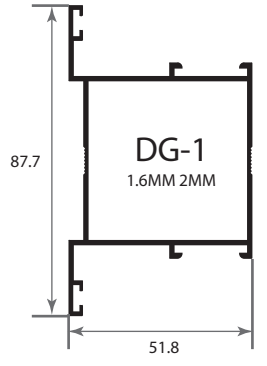
DOUBLE & SINGLE GLAZE WINDOW SERIES

DOUBLE & SINGLE GLAZE FIX SERIES

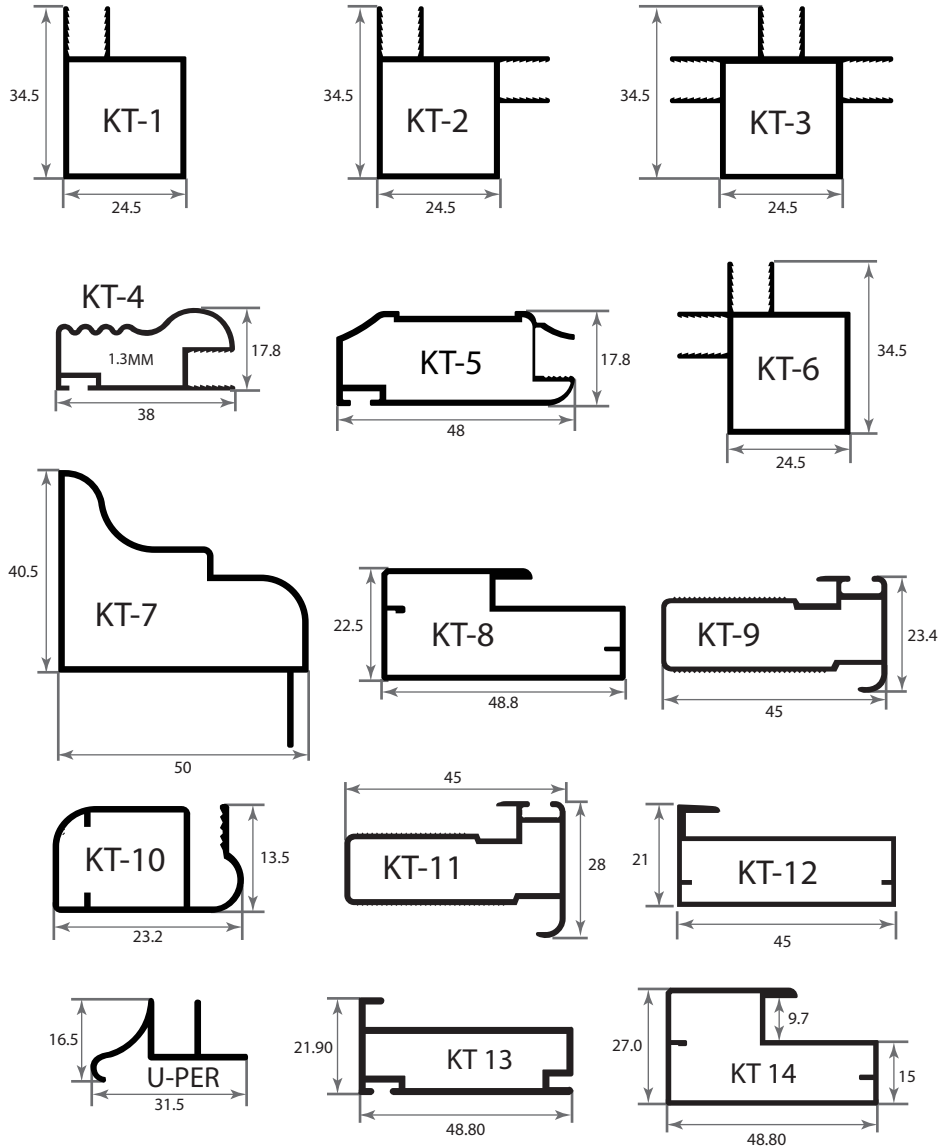


DOUBLE & SINGLE GLAZE DOOR SERIES

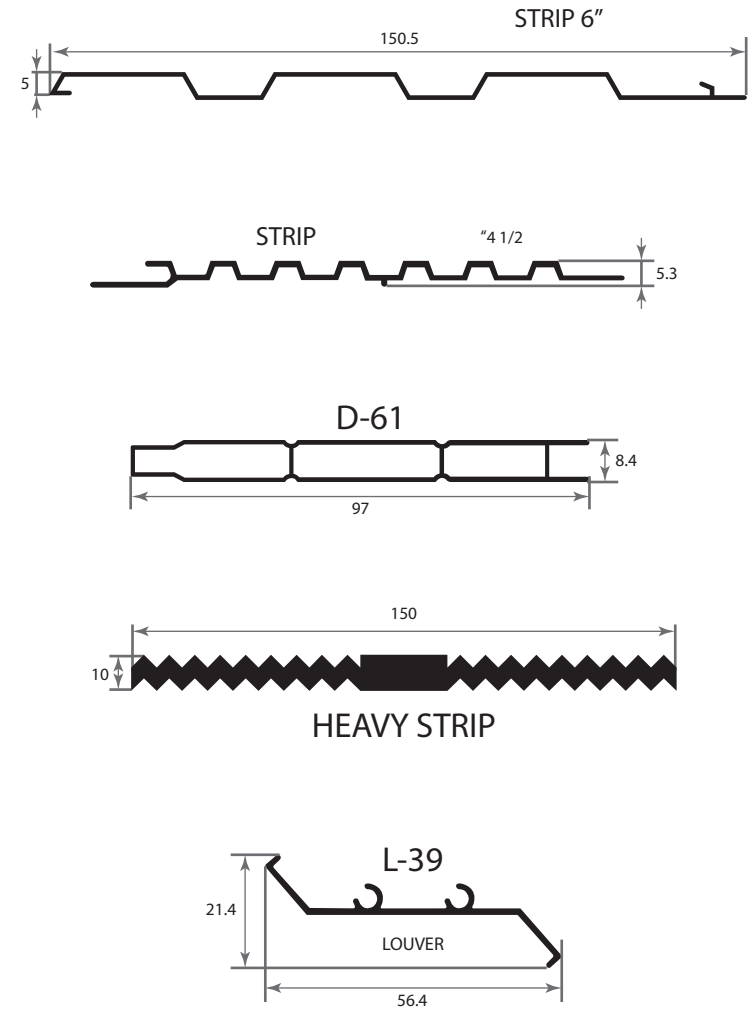
DOOR HANDLE SECTIONS



KITCHEN SECTION SERIES

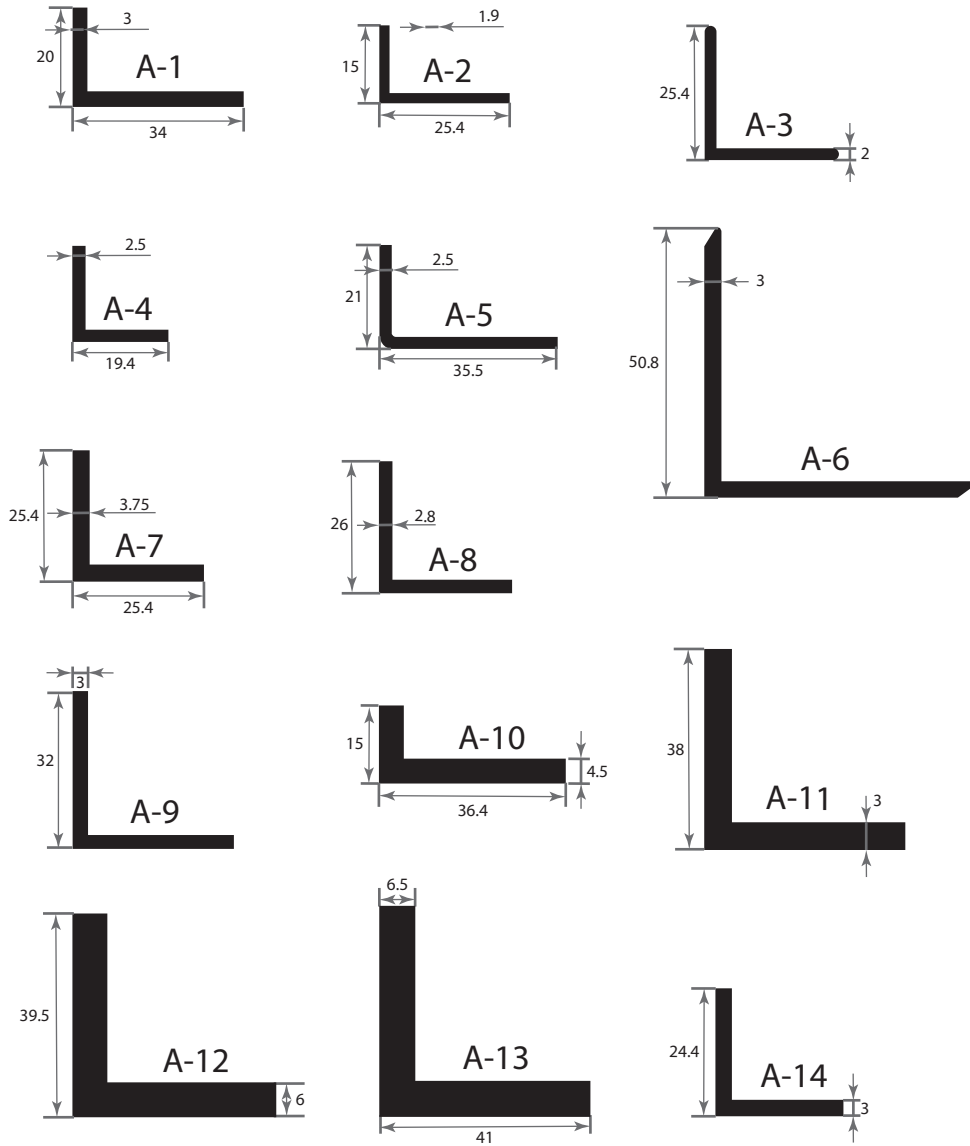


STRIPS & SKIRTING PANEL SECTIONS

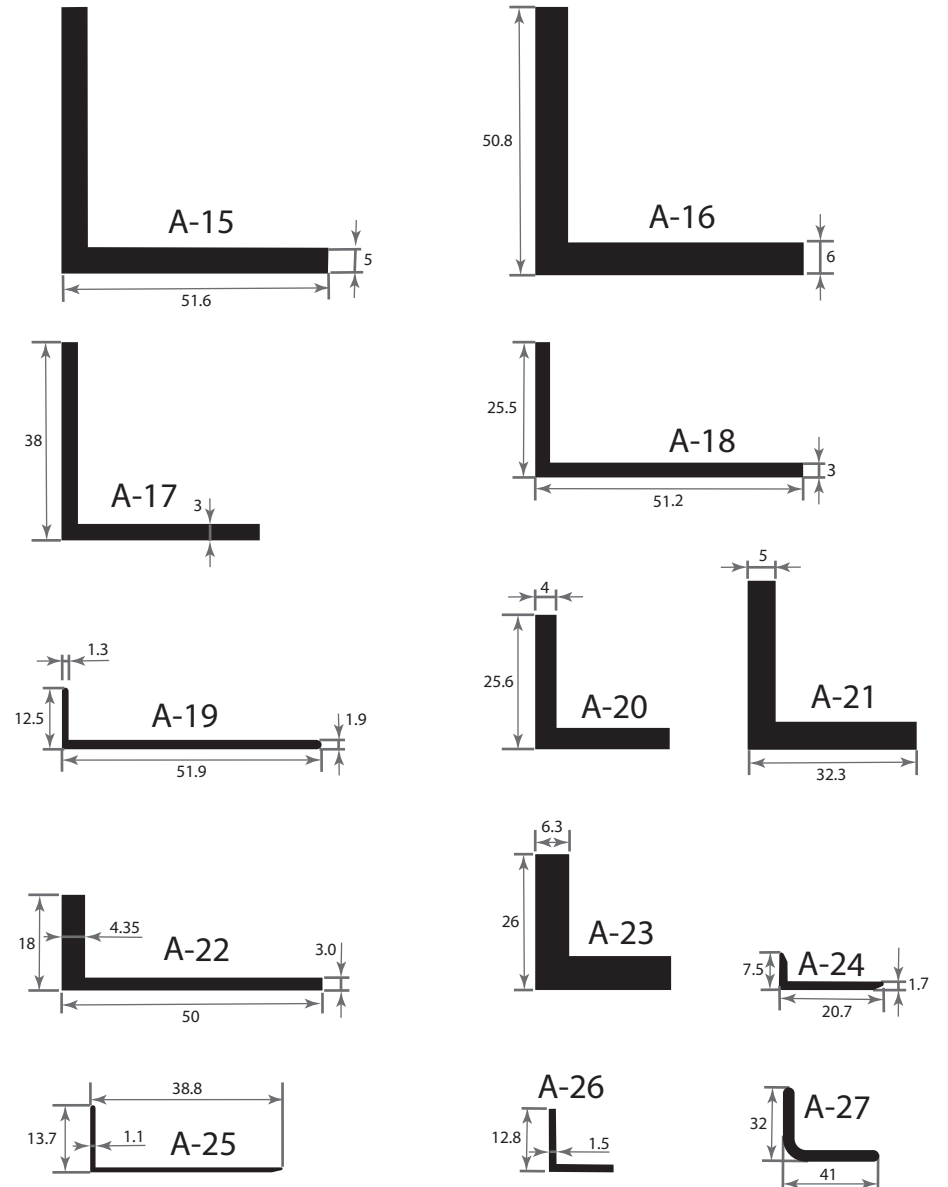


ALL MENTIONED SIZES ARE IN MILLIMETERS

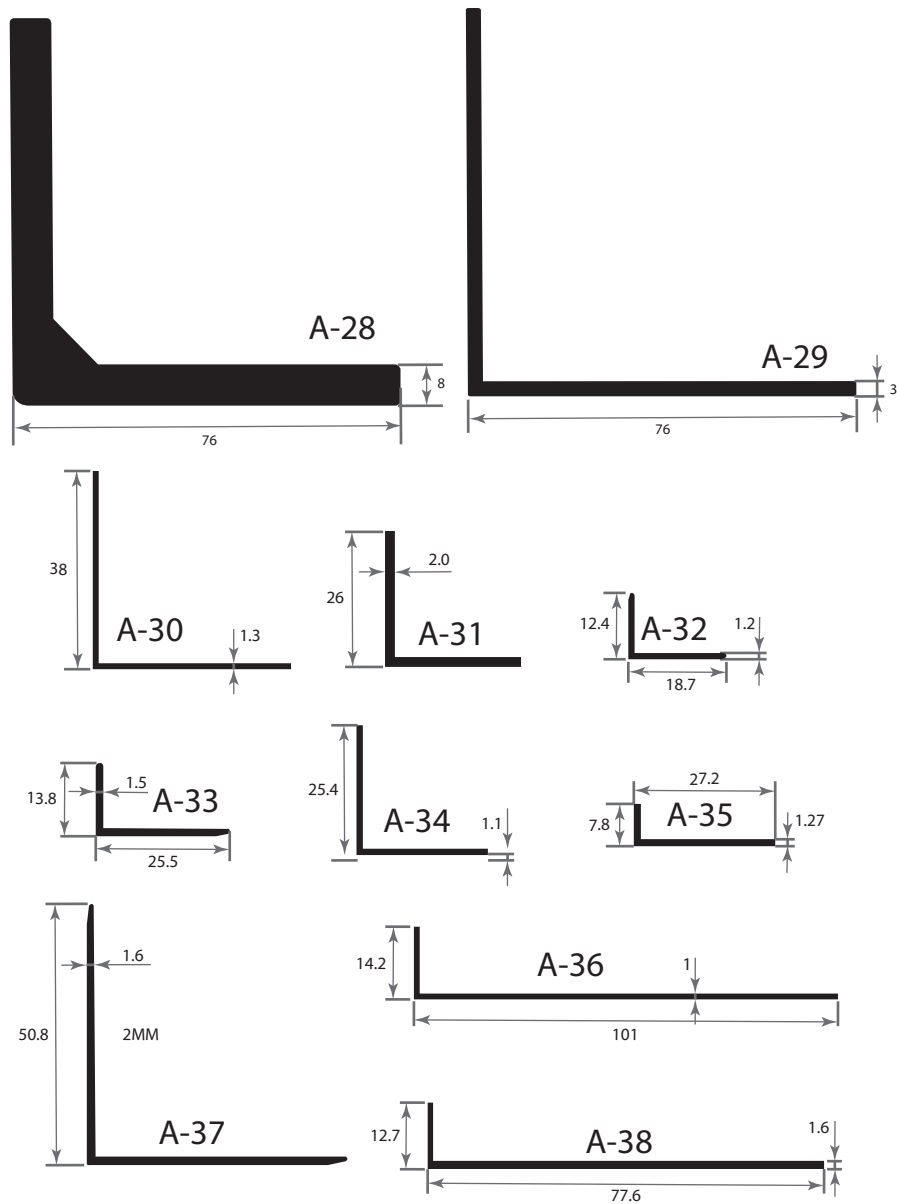
ANGLES



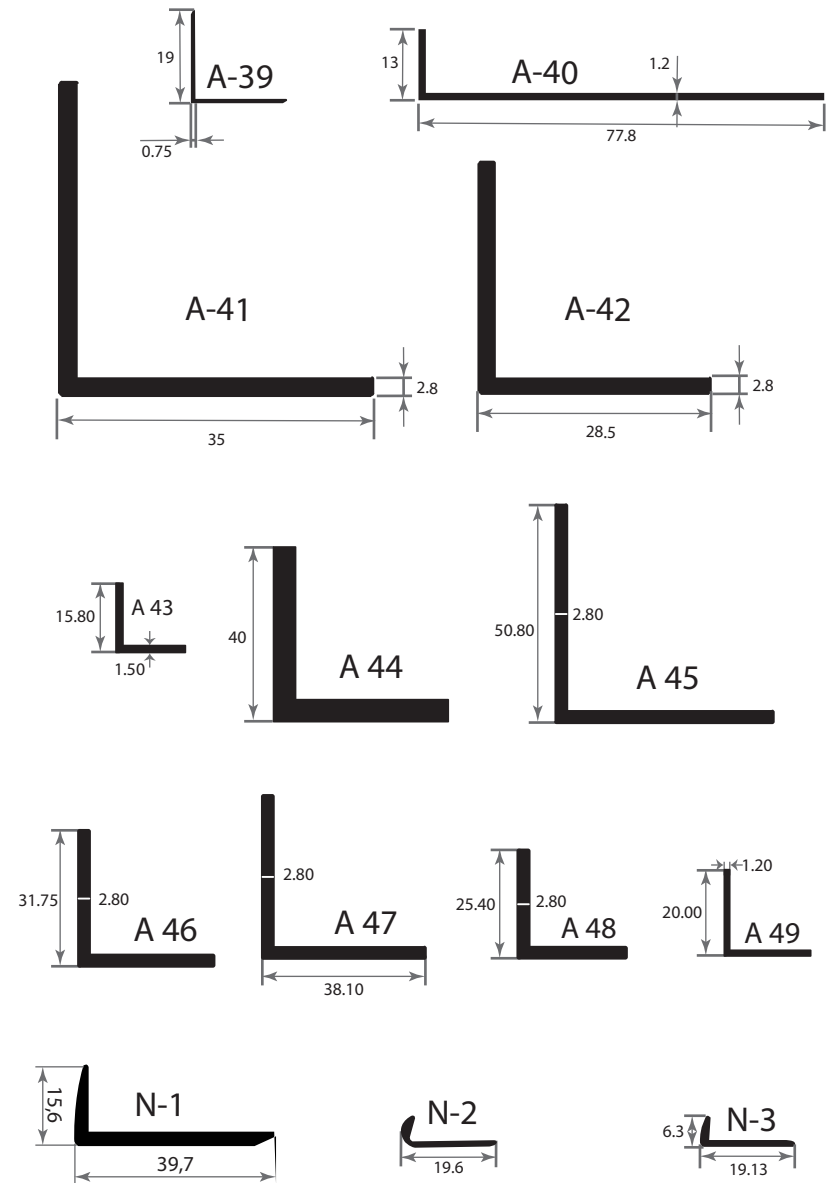
ANGLES



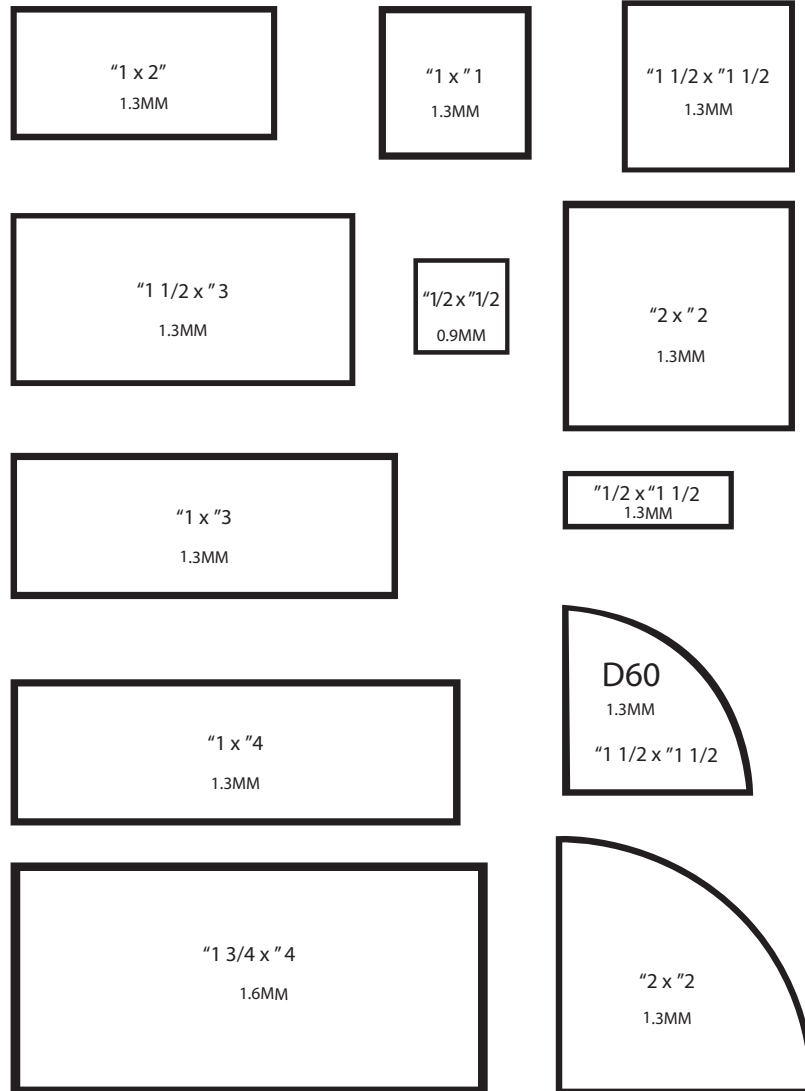
ANGLES



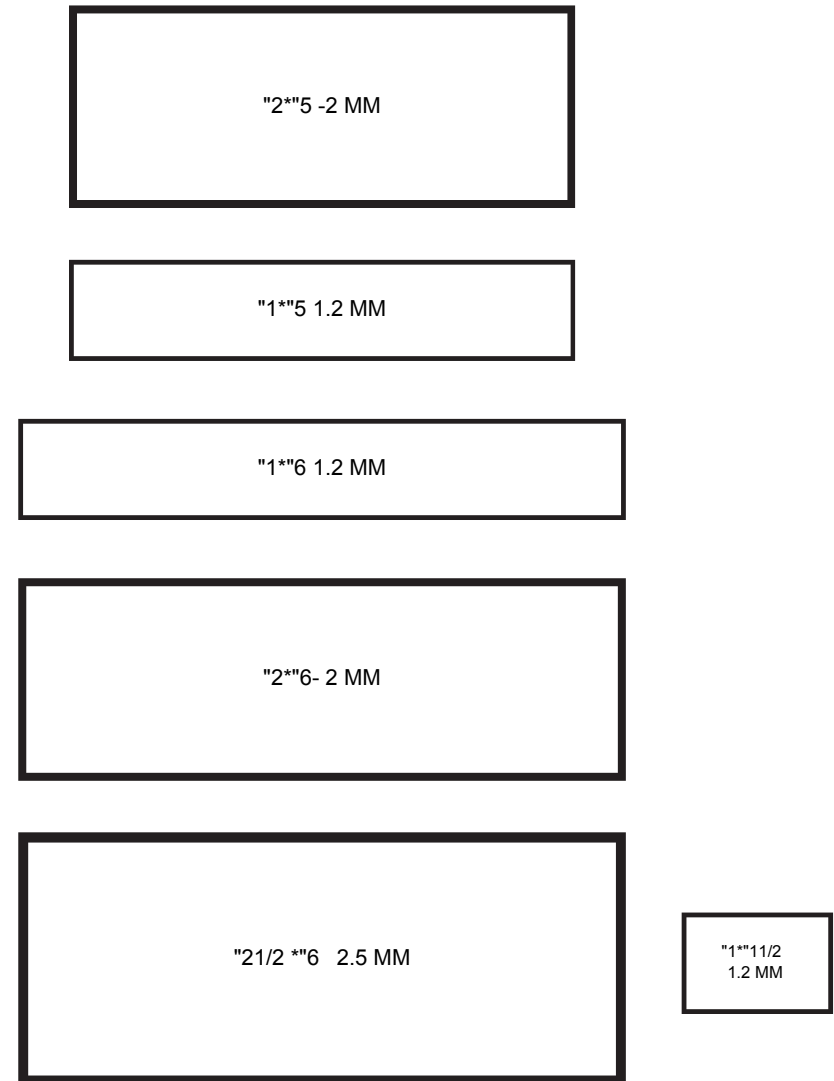
ANGLES & NOSINGS



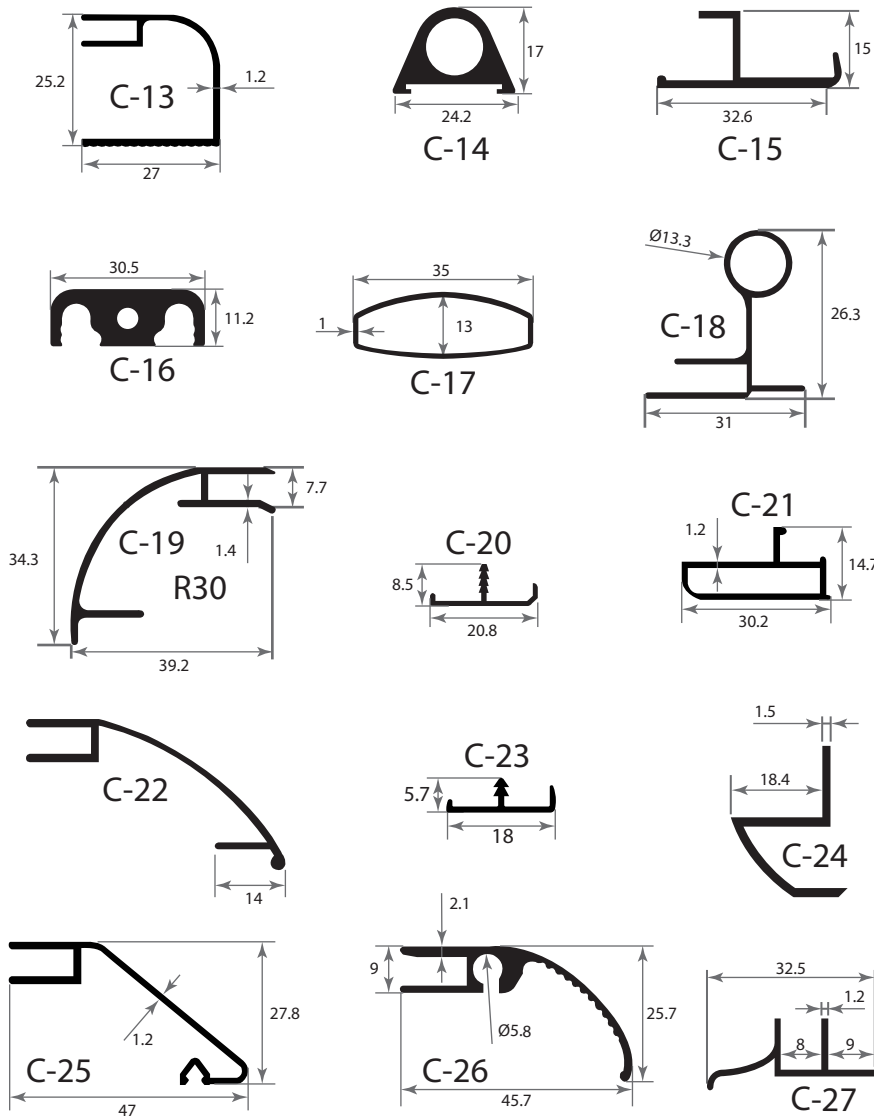
ALUMINIUM PIPES



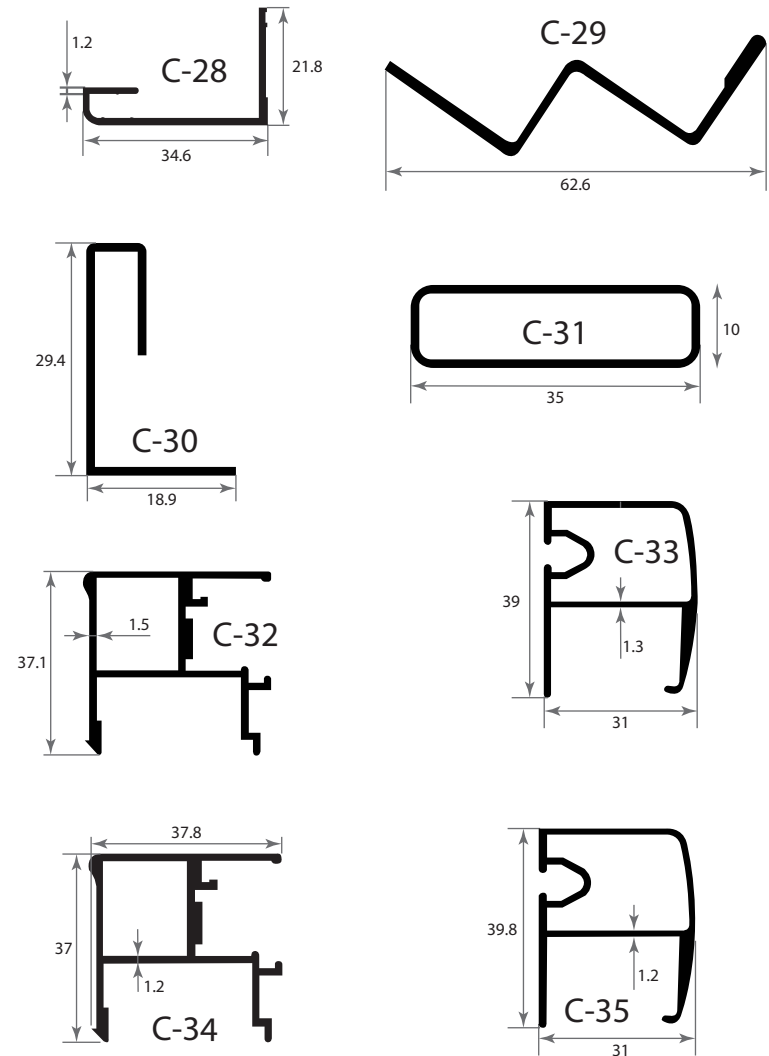
ALUMINIUM PIPES



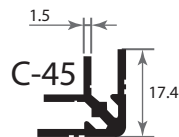
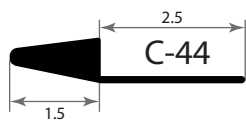
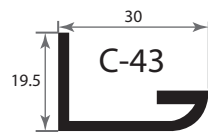
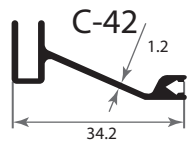
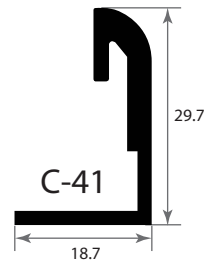
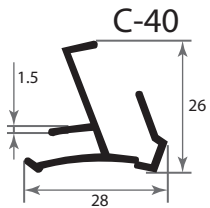
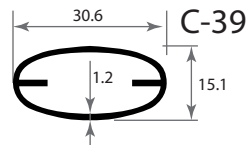
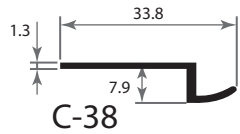
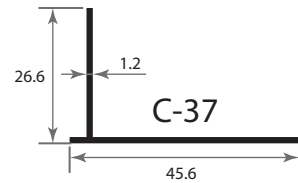
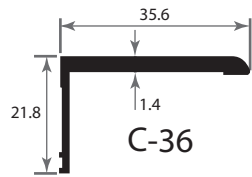
COOKING RANGE



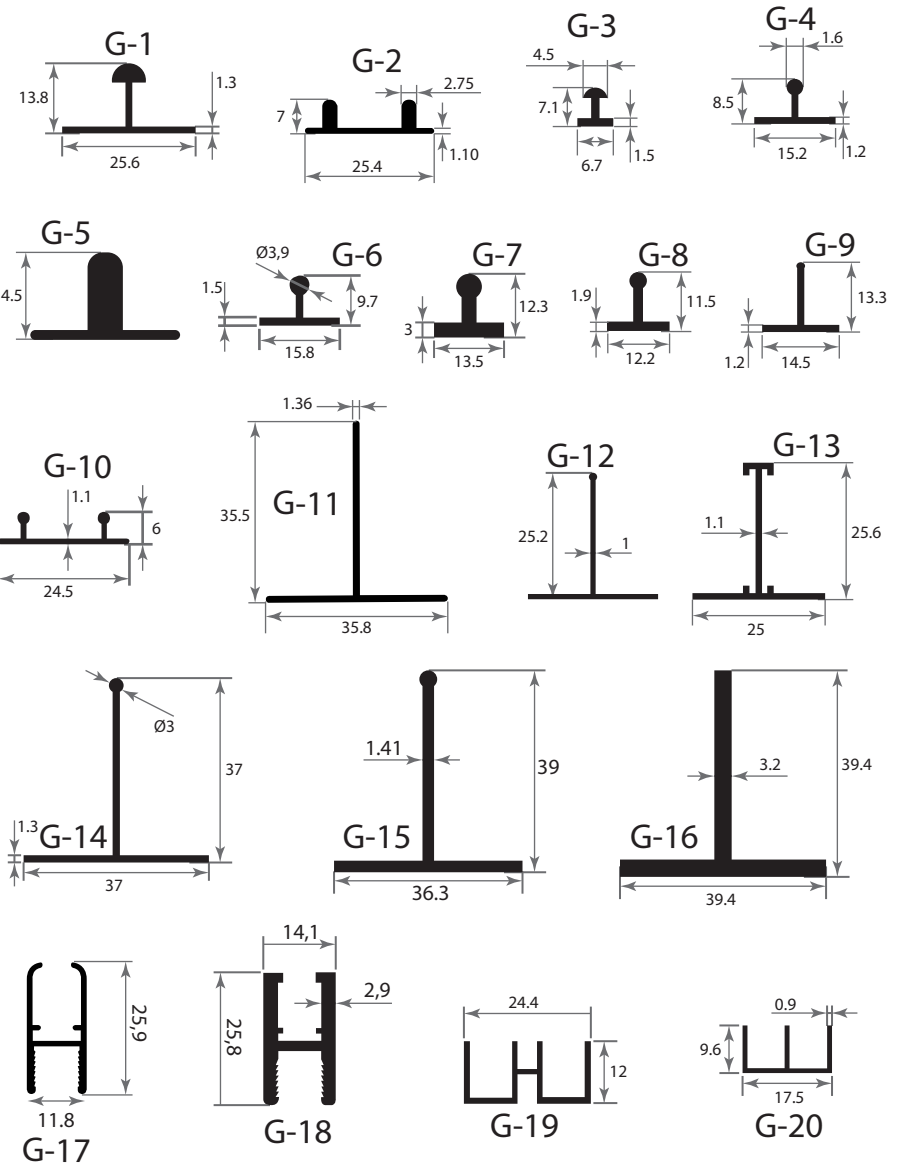
COOKING RANGE



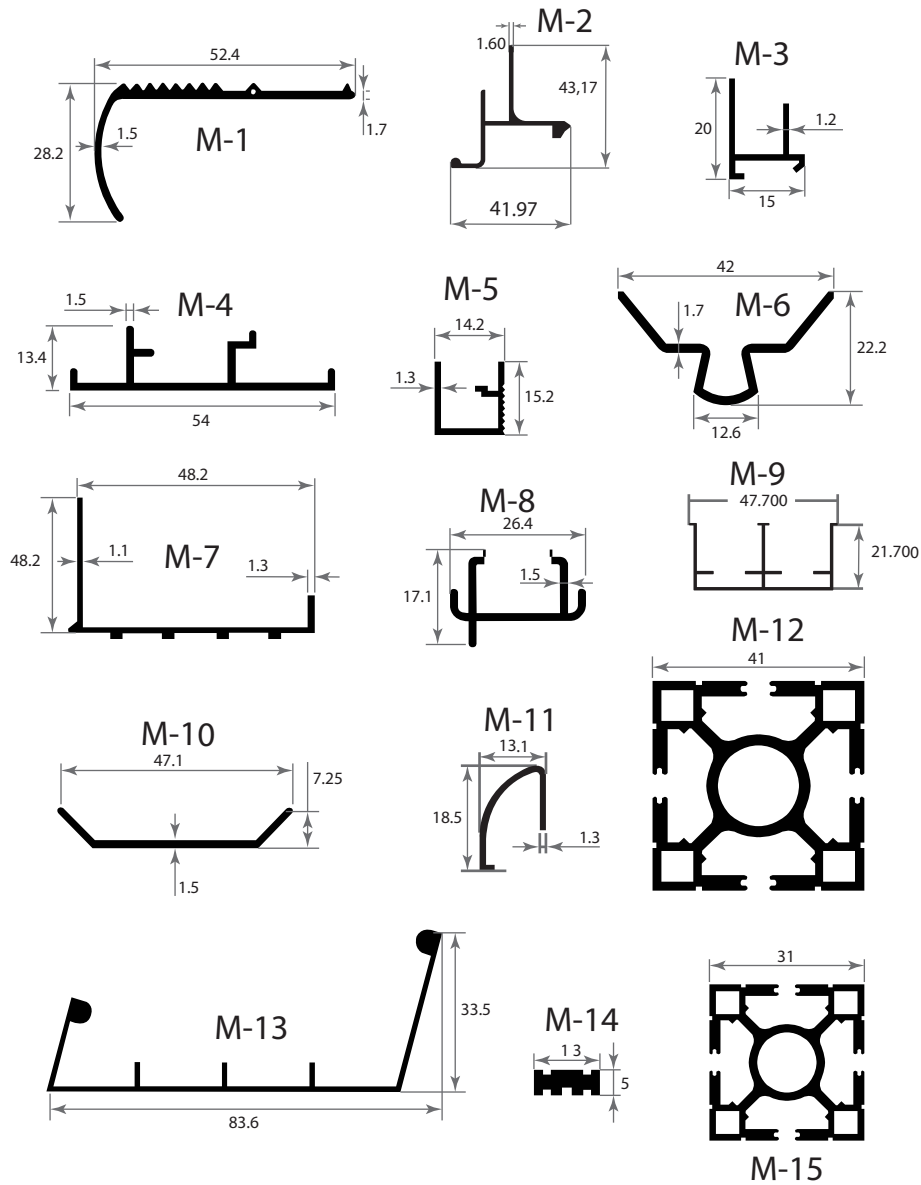
COOKING RANGE



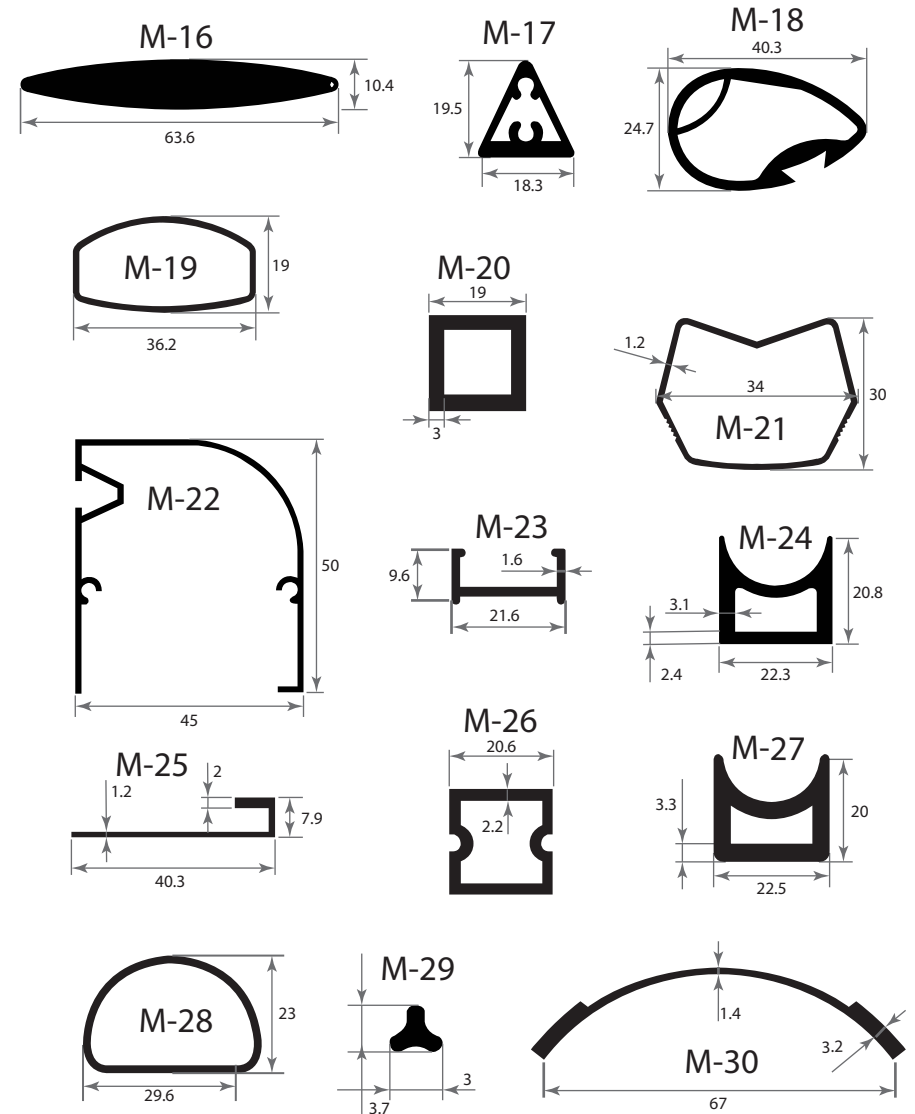
GLASS SET & SEALING



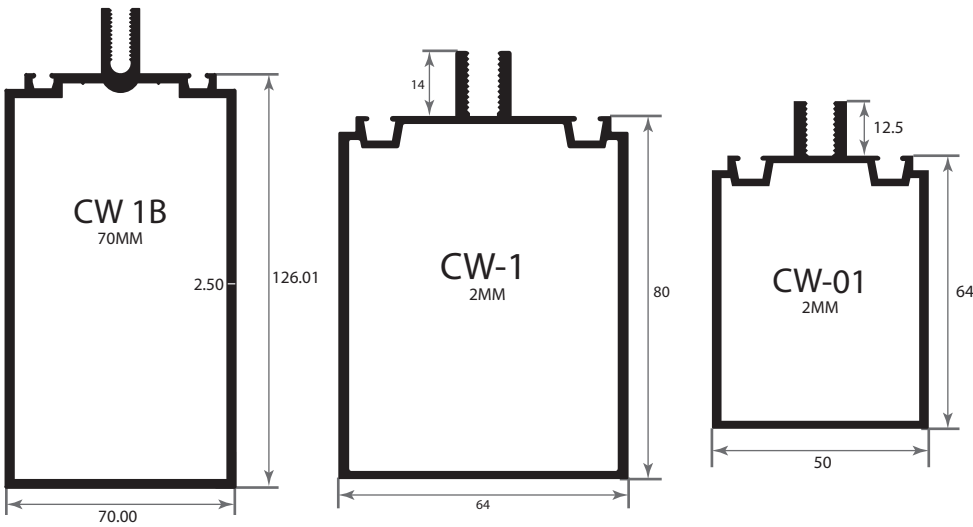
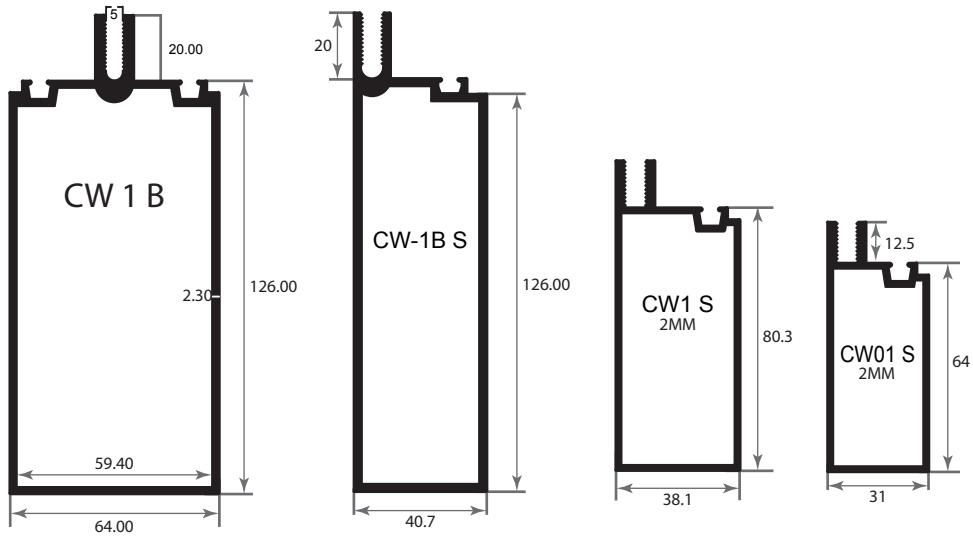
MISCELLANEOUS SECTIONS



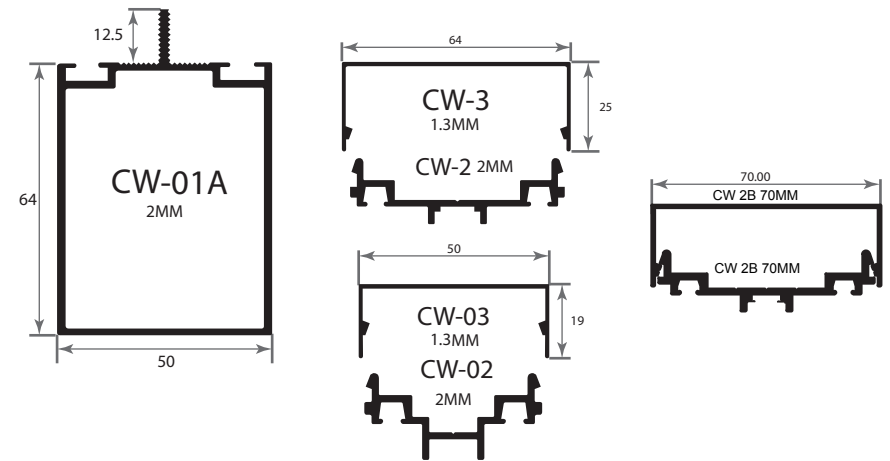
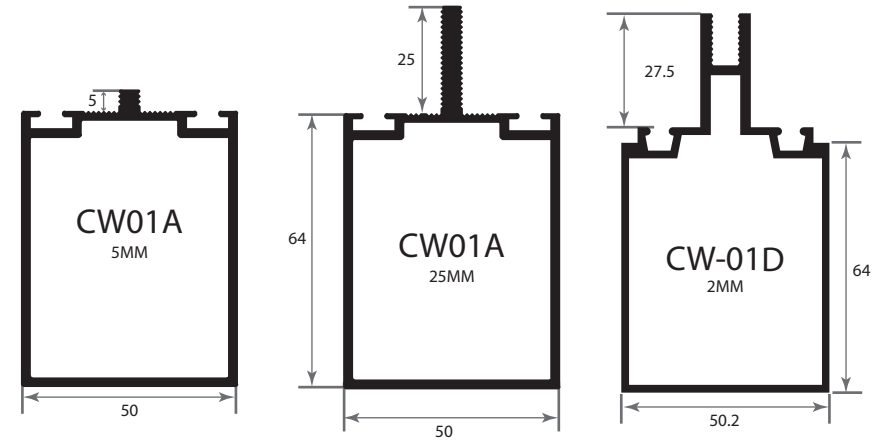
MISCELLANEOUS SECTIONS



CURTAIN WALL SECTIONS

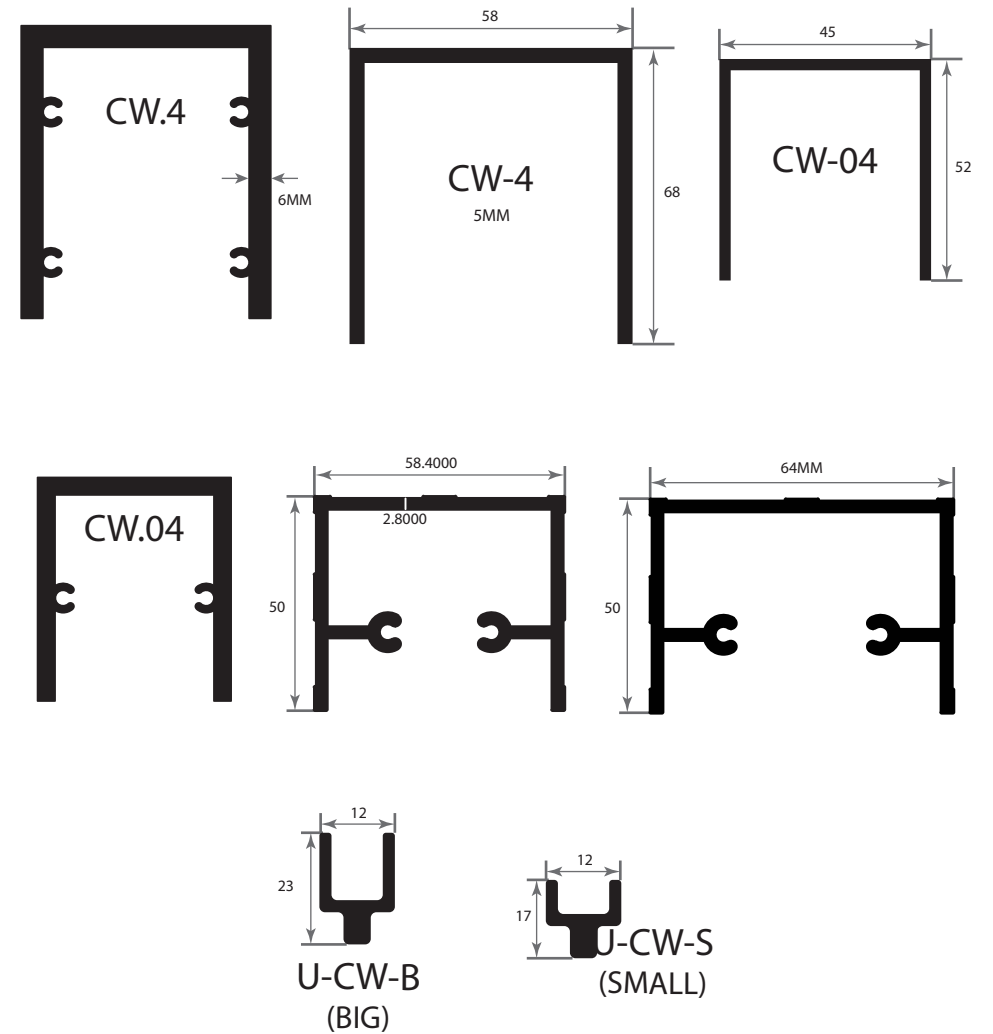
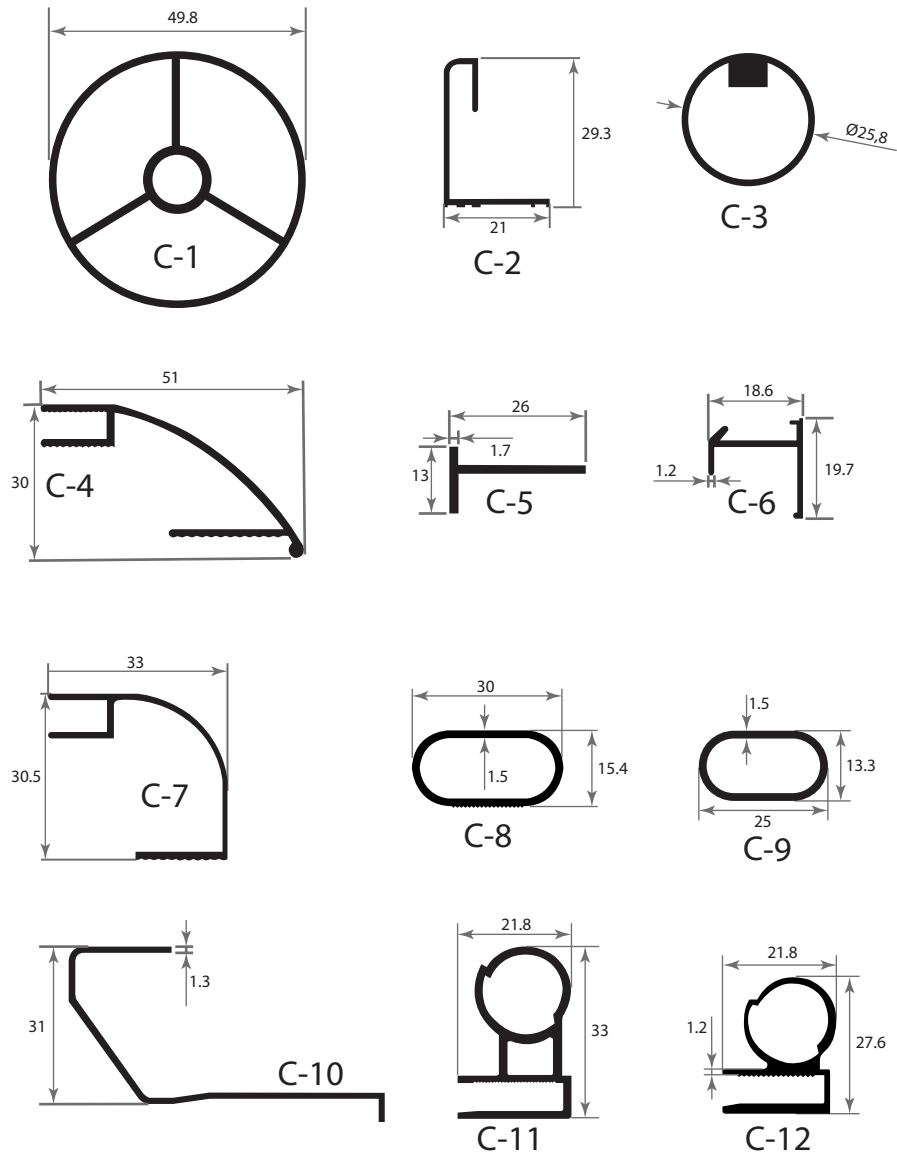


CURTAIN WALL SECTIONS

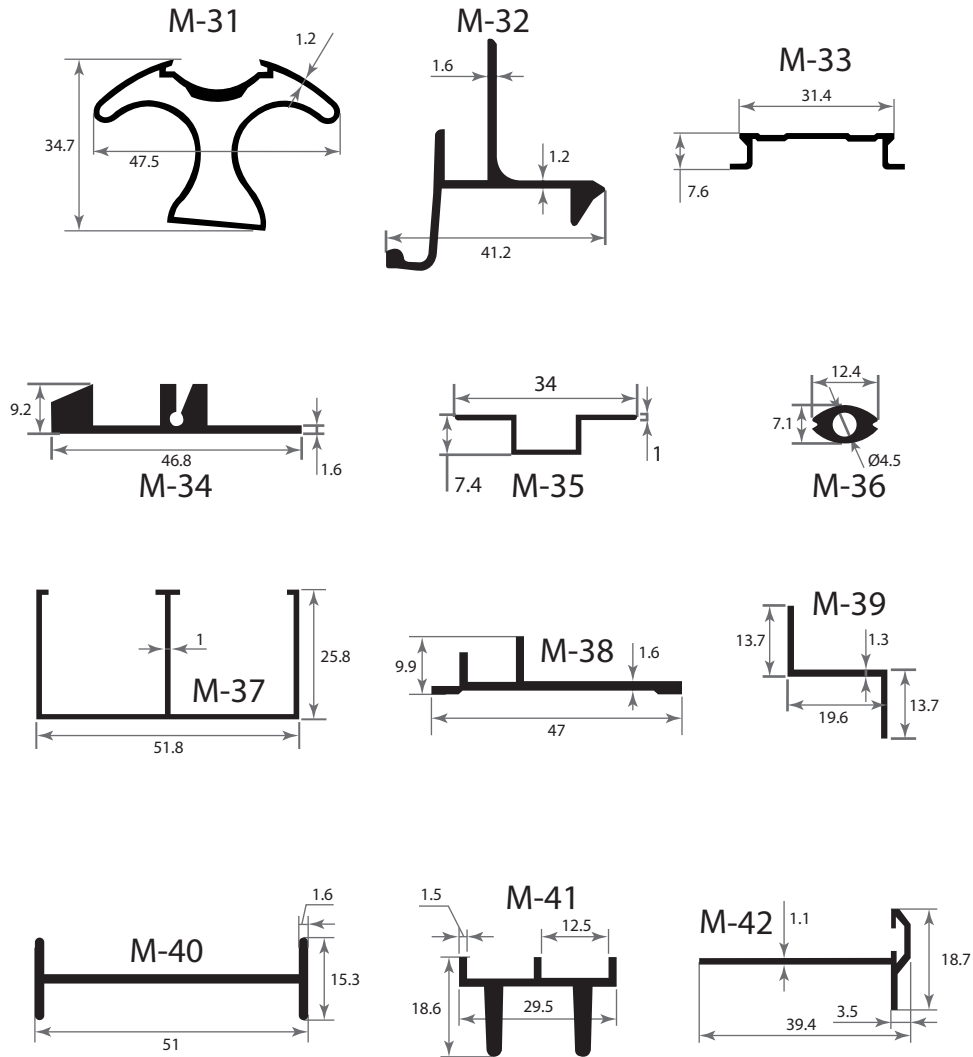


COOKING RANGE

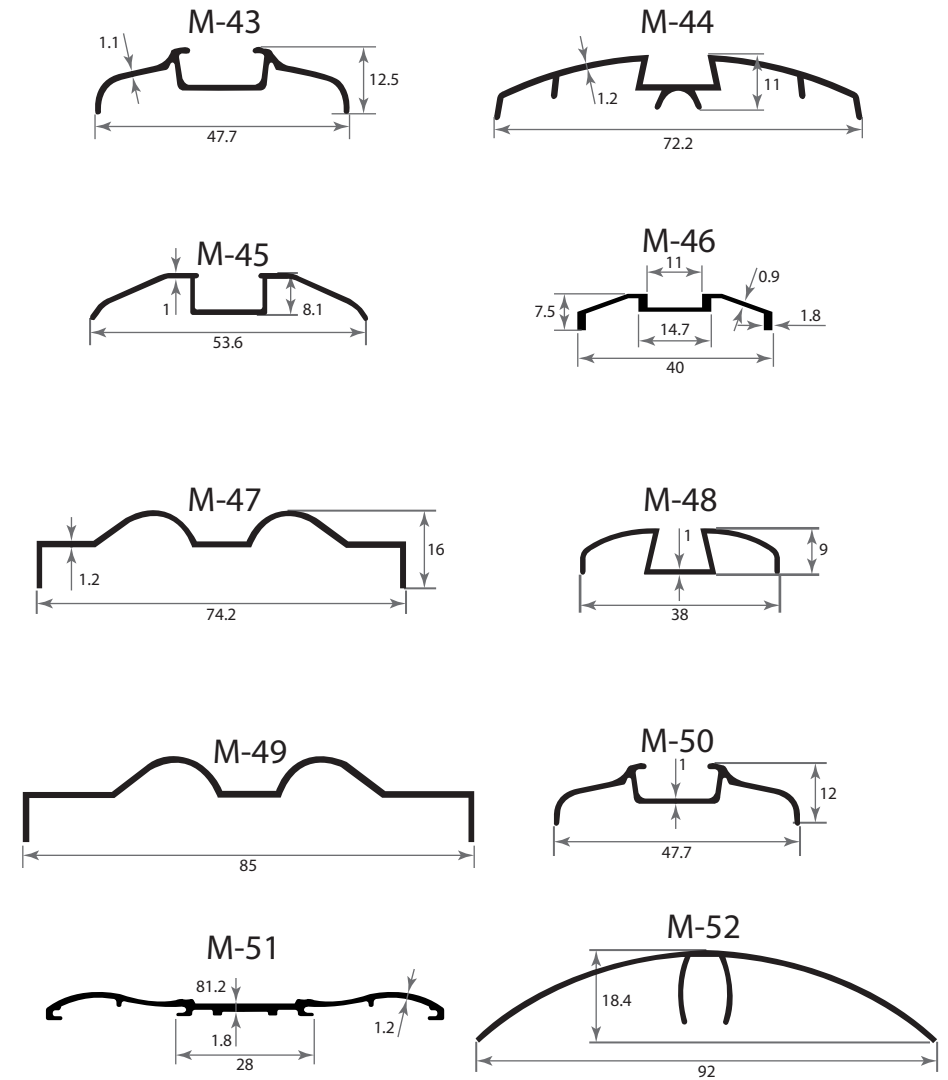
CURTAIN WALL SECTIONS



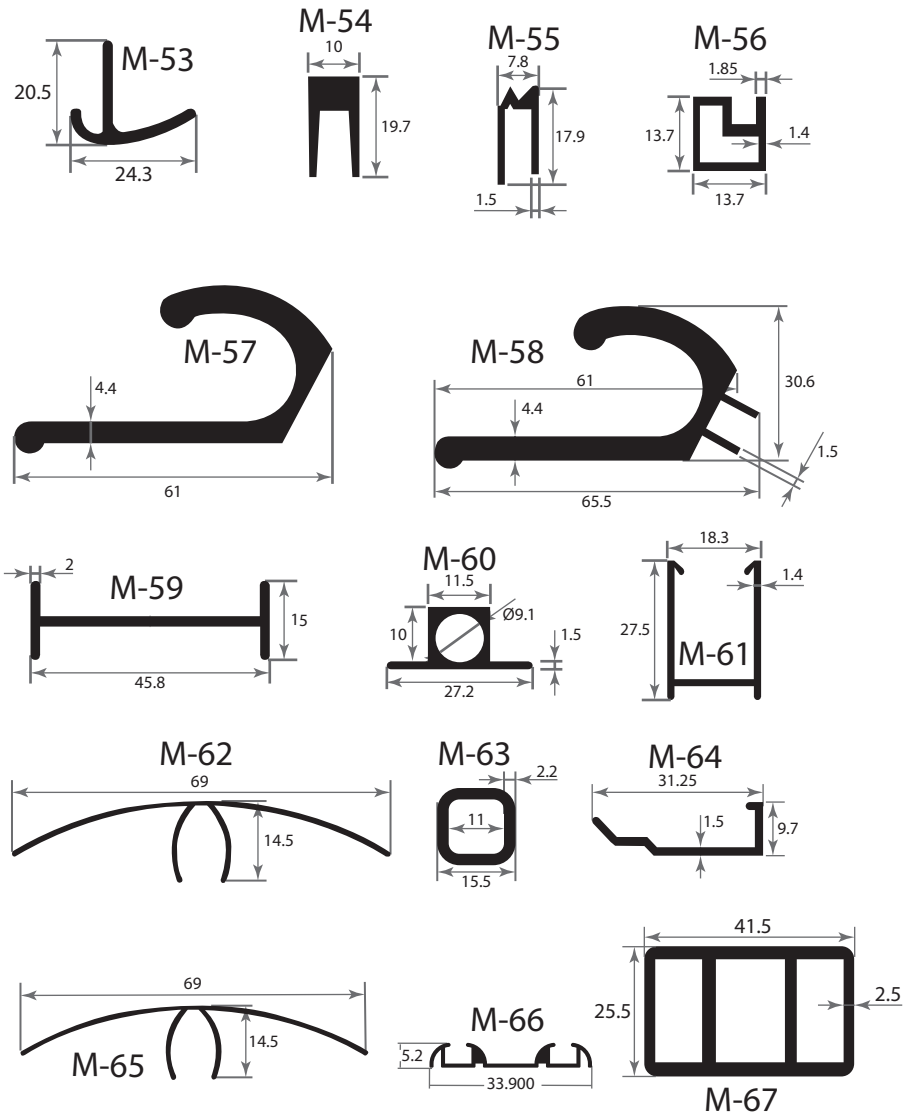
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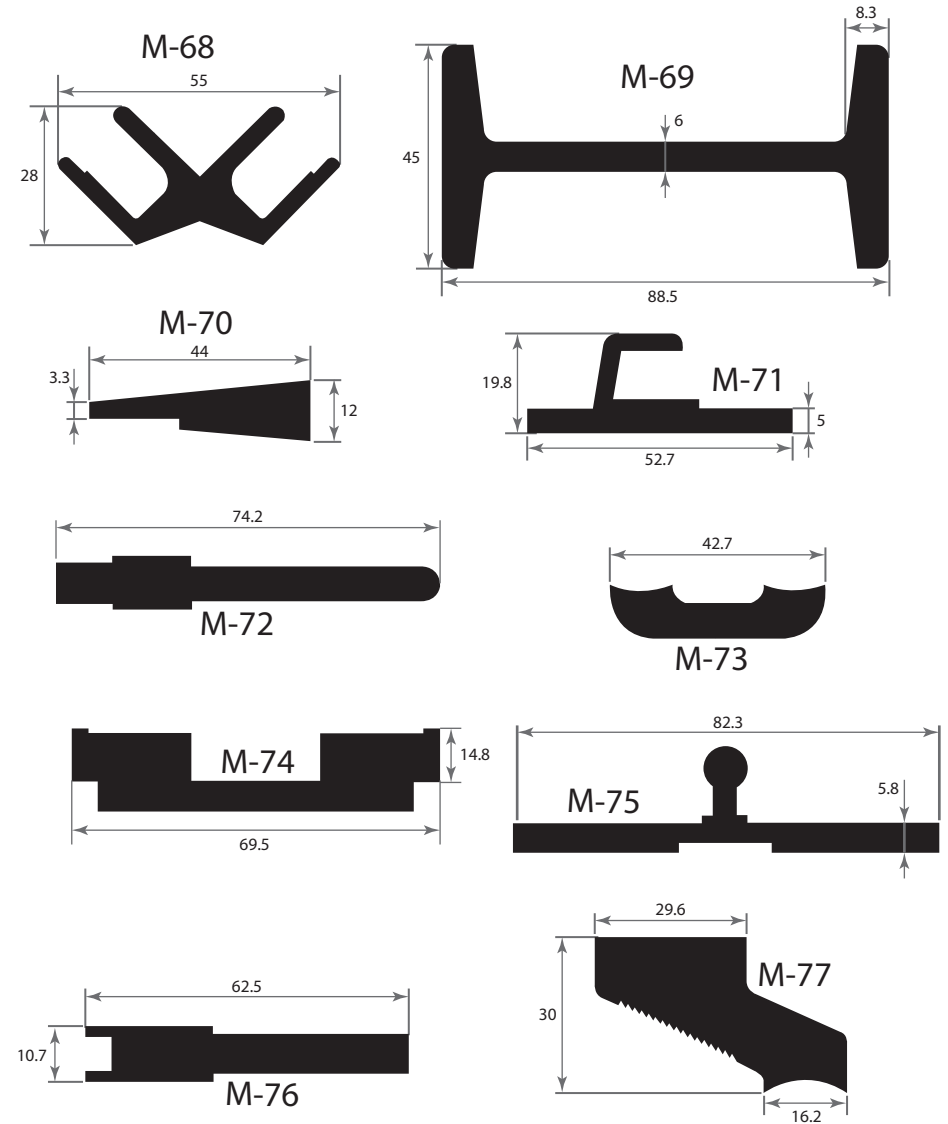
MISCELLANEOUS SECTIONS



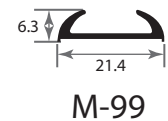
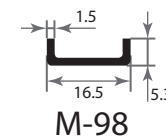
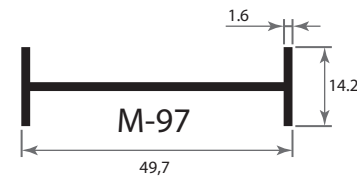
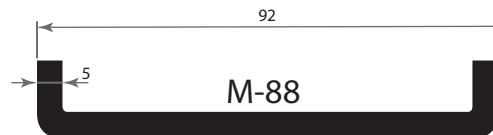
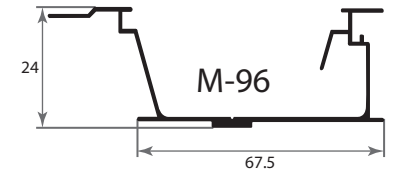
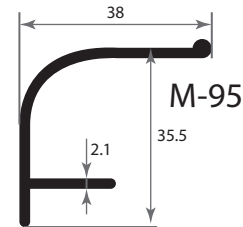
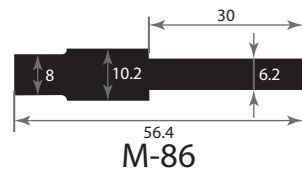
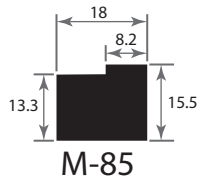
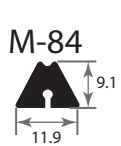
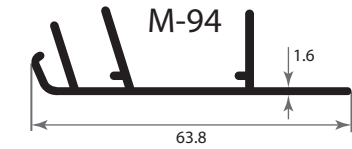
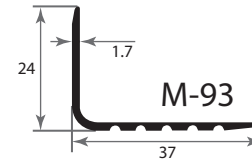
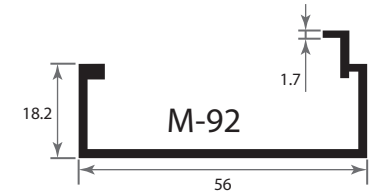
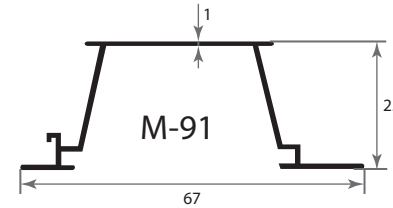
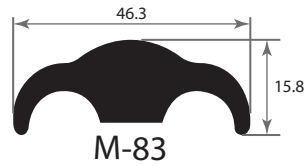
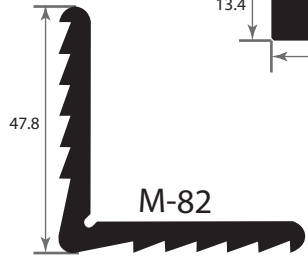
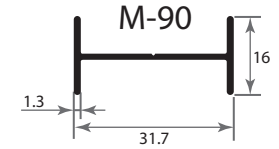
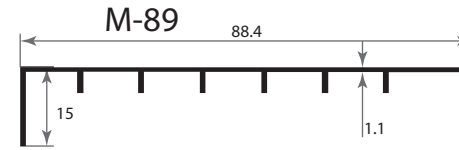
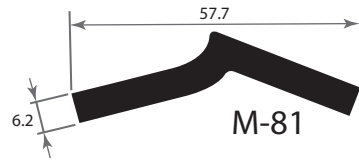
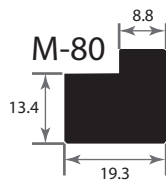
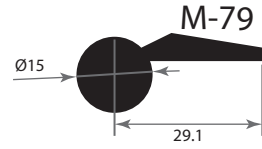
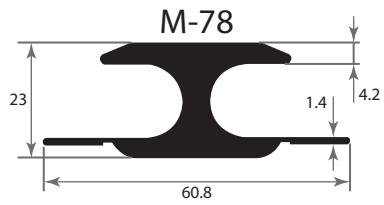
MISCELLANEOUS SECTIONS



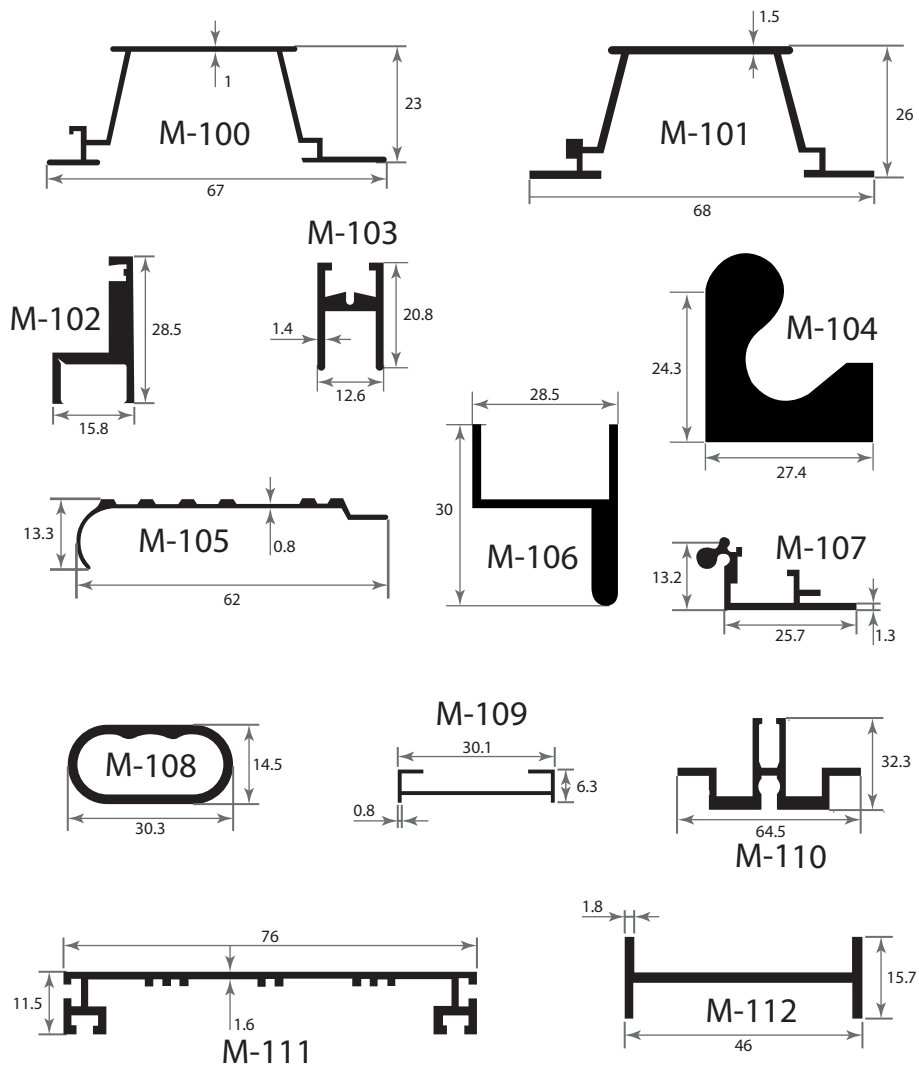
MISCELLANEOUS SECTIONS



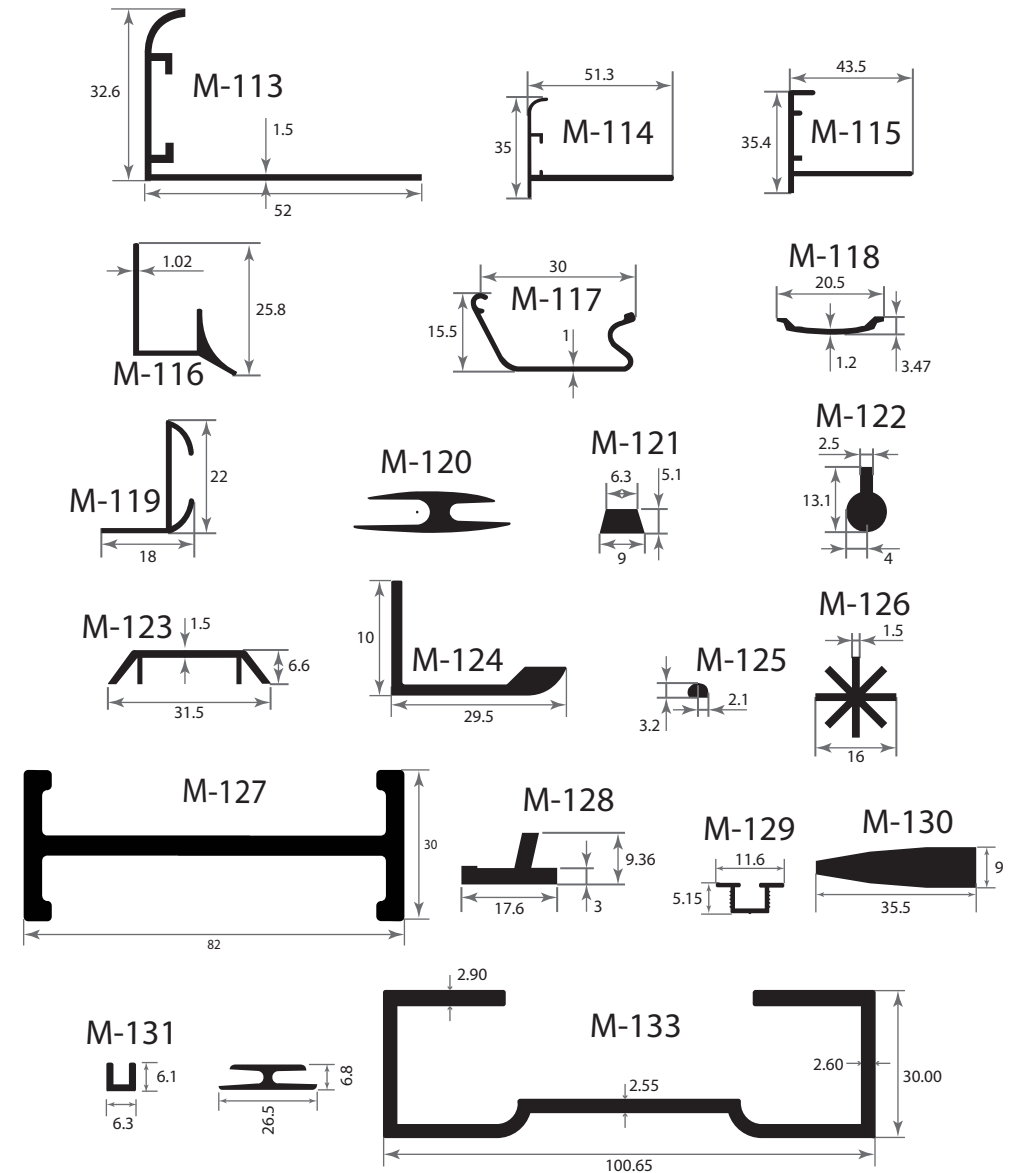
MISCELLANEOUS SECTIONS



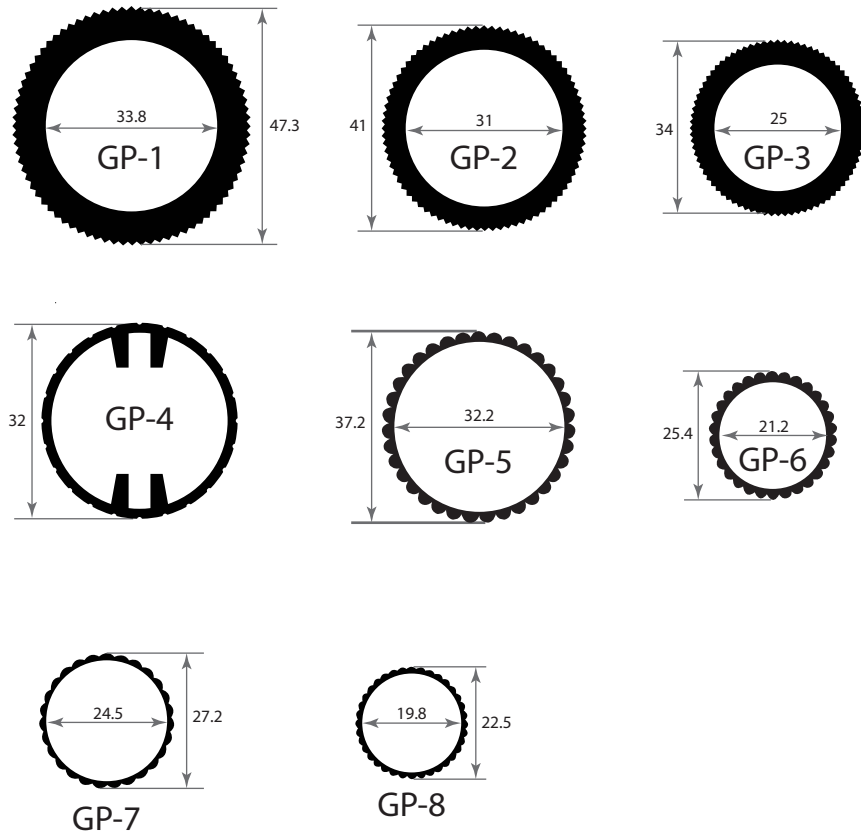
MISCELLANEOUS SECTIONS



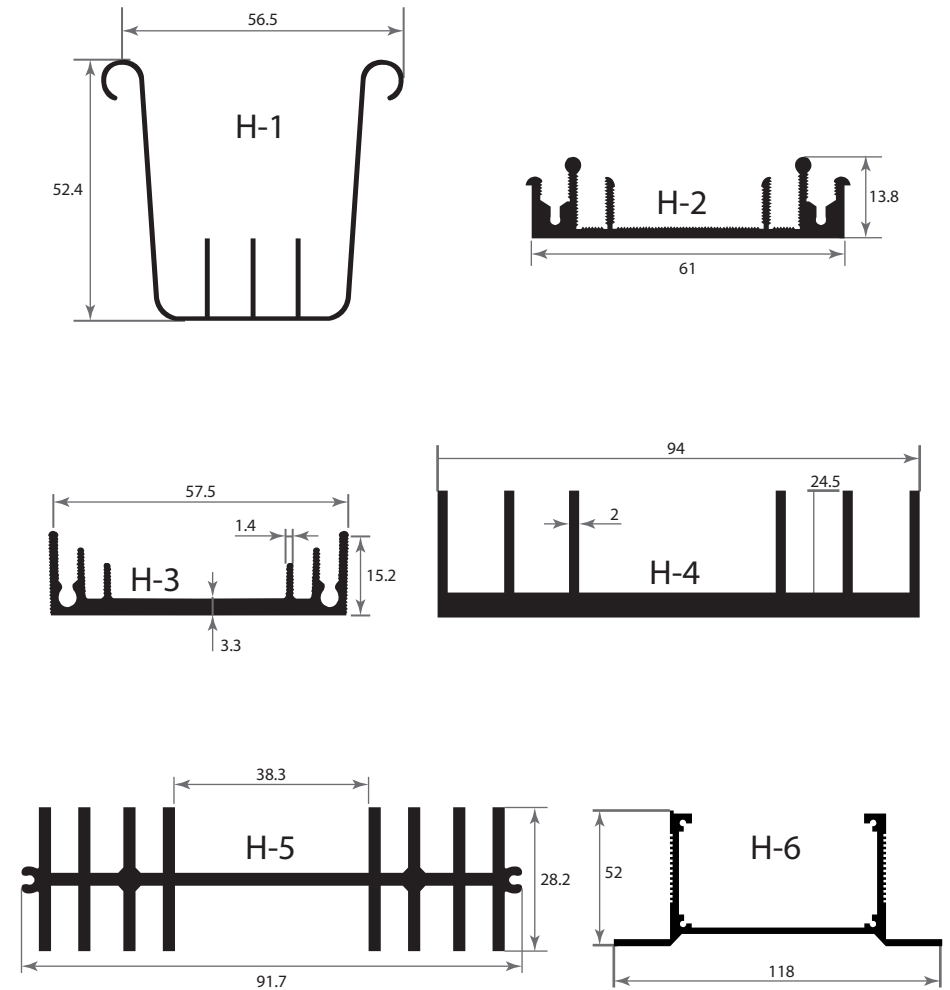
MISCELLANEOUS SECTIONS



GROOVE PIPES

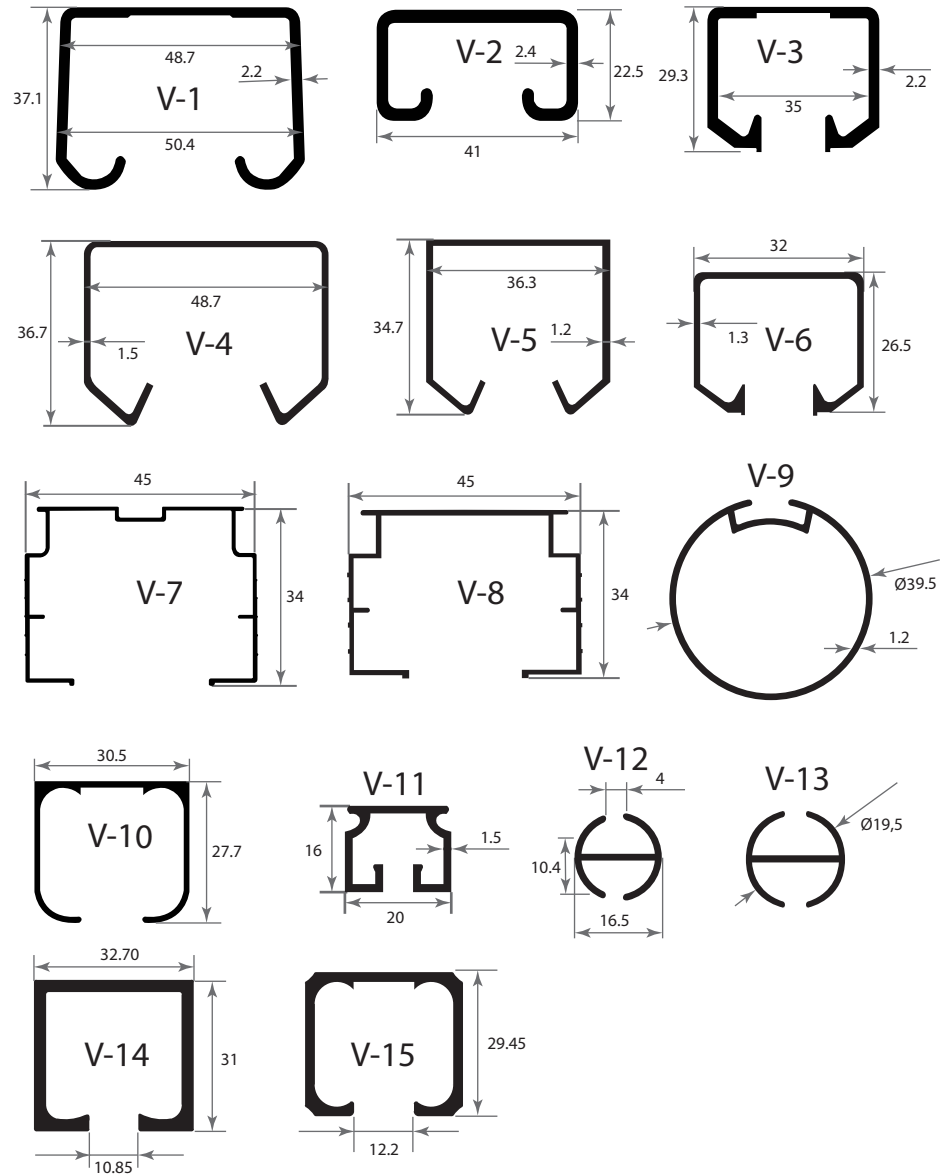
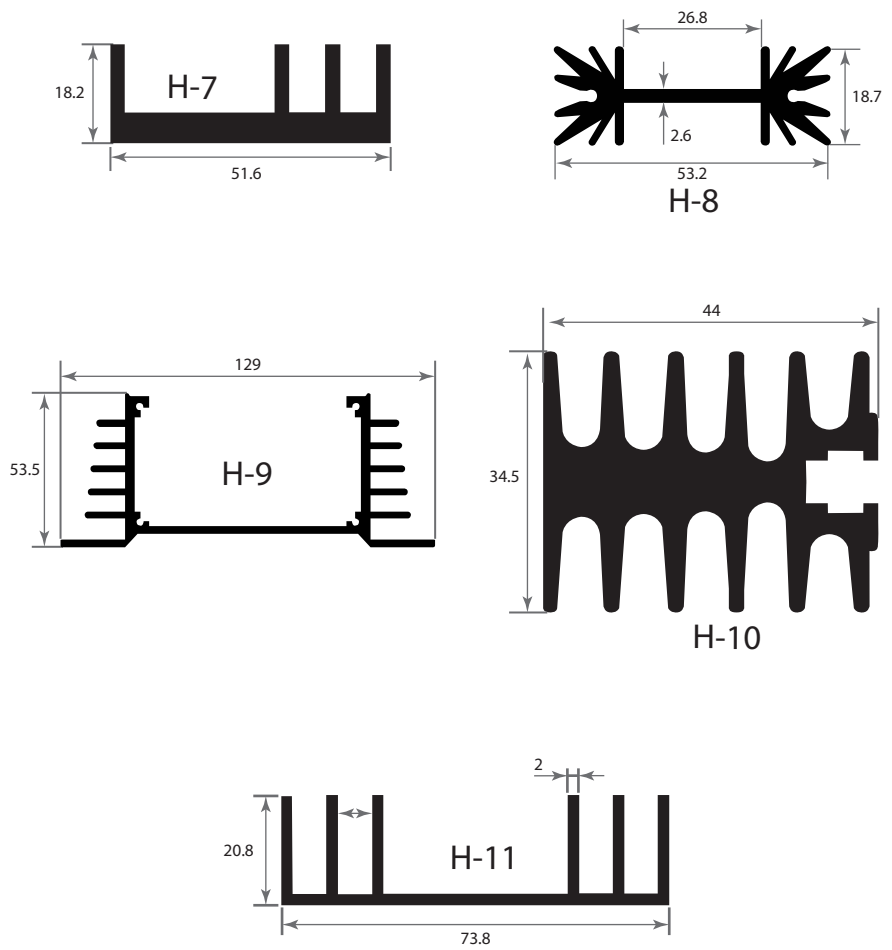


HEAT SINKS

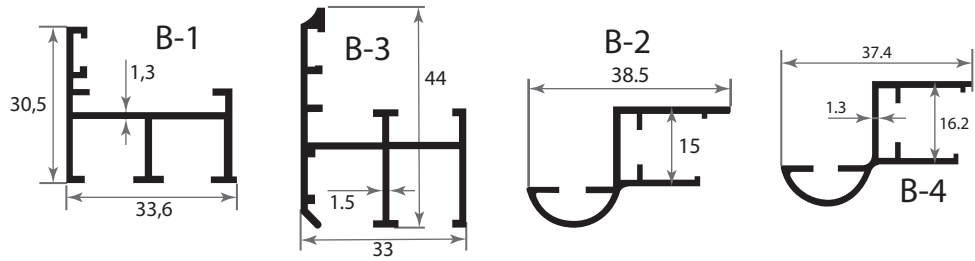


HEAT SINKS

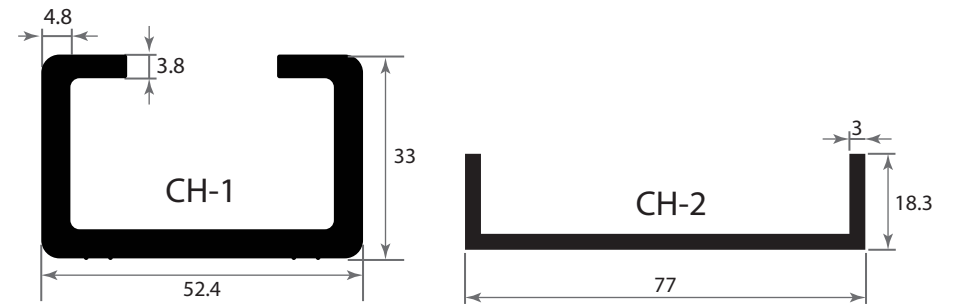
VERTICLE RAILING & DOOR CHANNELS



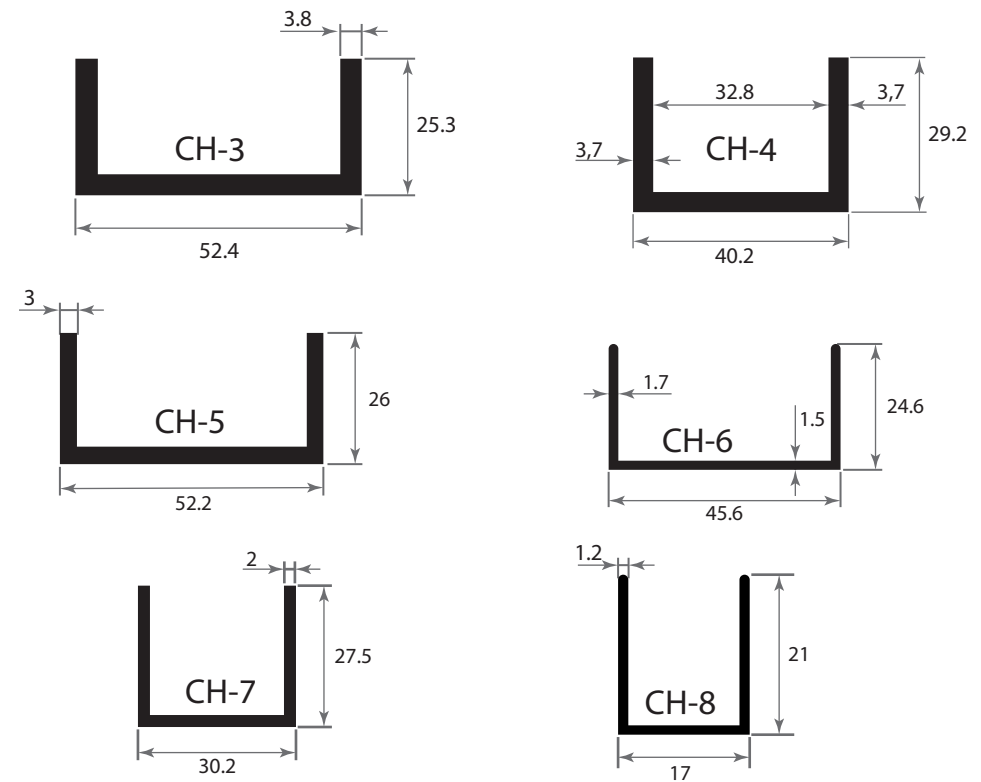
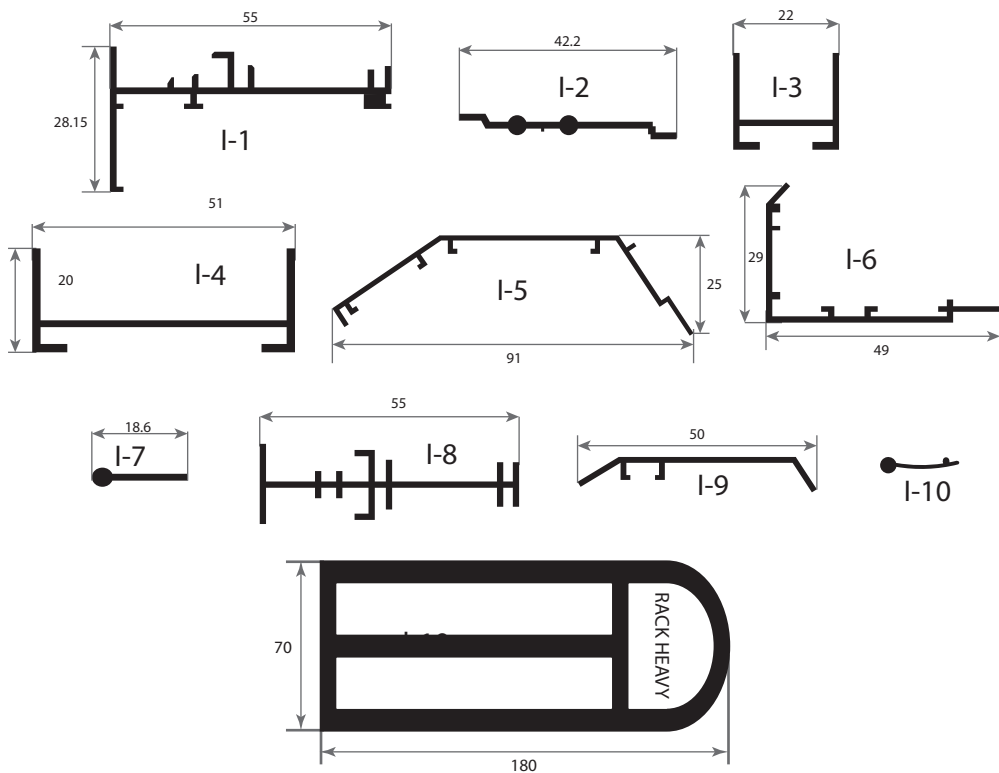
BUS BODY SECTIONS



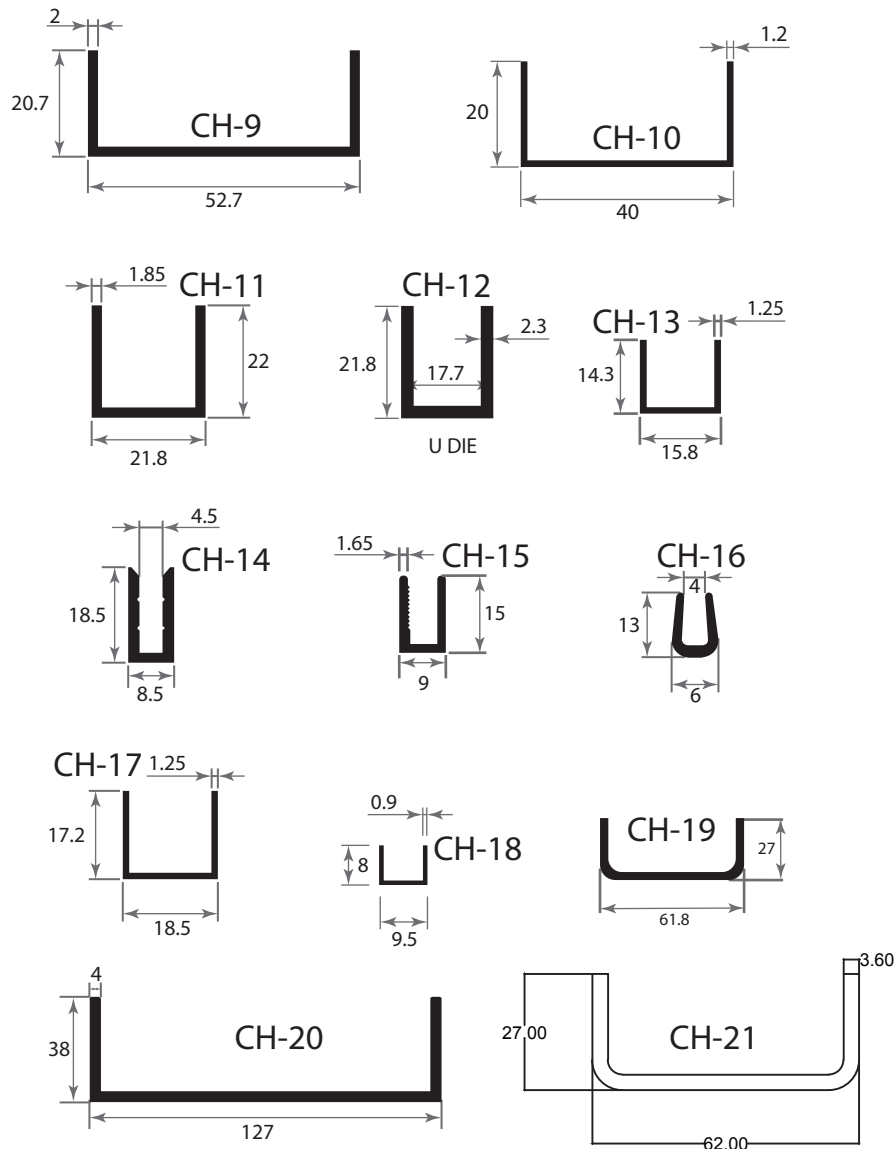
CHANNELS SECTIONS



INDUSTRIAL SECTIONS

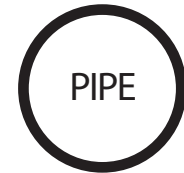


CHANNELS SECTIONS

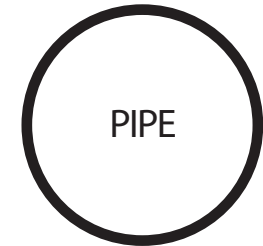


ALUMINIUM ROUND PIPES

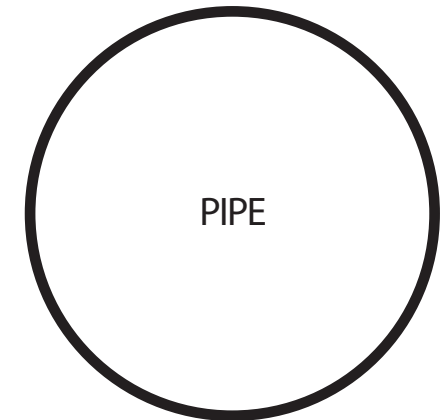
No.	DIENAME	GAUGE
1	8.2*3mm	2.6MM
2	10.2*7.5mm	1.35MM
3	15*11mm	2MM
4	16.2*13mm	1.6MM
5	18.5*8mm	5.25MM
6	19.3*15.3mm	2MM
7	21*17mm	2MM
8	22*20mm	1MM
9	22.5*19.7mm	1.4MM
10	23*21mm	1MM
11	25*19mm	3MM
12	25.4*19mm	3.2MM
13	25*23mm	1MM
14	28.7*26.3mm	1.2MM
15	29.3*27mm	1.15MM
16	30*20mm	5MM
17	32*28mm	2MM
18	38*32mm	3MM
19	40*30mm	5MM
20	41*35mm	3MM
21	45*38mm	3.5MM
22	48*46mm	1MM
23	50.8*46mm	2.4MM
24	62*56mm	3MM
25	64*58mm	3MM
26	76*68mm	4MM
27	76*73.5mm	1.25MM
28	101.6*97.6mm	2MM
29	101.6*91.6mm	5MM



PIPE



PIPE



PIPE

ALUMINIUM SQUARE RODS

SIZES ARE IN INCHES & MM

SQUARE-ROD

1/4
7MM
3/8
7/16
1/2
5/8
3/4
7/8
"1
"1 1/4
"1 1/2
"1 3/4
"2
"2 1/4
"2 1/2
"2 3/4
"3
"1 1/8

SQUARE



SQUARE



SQUARE



ALUMINIUM ROUND RODS

SIZES ARE IN INCHES & MM

1/4	6MM
5/16	10MM
3/8	12MM
1/2	17MM
9/16	18MM
5/8	20MM
11/16	23MM
3/4	24MM
13/16	26MM
7/8	30MM
"1	35MM
"1 1/8	36MM
"1 1/4	40MM
"1 3/8	45MM
"1 1/2	47MM
"1 3/4	55MM
"1 7/8	60MM
"2	81MM
"2 1/4	
"2 1/2	
"2 9/16	
"2 1/8	
"2 3/8	
"2 3/4	
"3	
"3 1/4	
"3 1/2	
"4	
"4 1/2	
"4 5/8	
"5	
"5 1/8	
"6	
3 3/4	

ROUND



ROUND



ROUND



ALUMINIUM HEXAGONAL RODS

HEXAGONAL

HEXAGONAL

HEXAGONAL

SIZES ARE IN INCHES & MM	
1/4	9MM
5/16	12MM
3/8	15MM
7/16	17MM
1/2	24MM
9/16	30MM
5/8	40MM
11/16	42MM
13/16	43MM
15/16	47MM
3/4	55MM
7/8	
"1	
"11/8	
"1 1/16	
"11/4	
"1 3/8	
"1 1/2	
"1 3/4	
"1 7/8	
"2	
"2 1/4	
"2 1/2	
"3	
"3 1/8	
"3 1/2	
"4	

ALUMINIUM STRIPS

PATTI-DIES	
3/8*1/4	"2 1/2*3/4
1/2*1/8	"2 1/2**1
1/2*3/8	"3*1/8
3/4*1/8	"3*3/8
3/4*1/4	"3*1/2
3/4*3/8	"3*3/4
3/4*1/2	"3**1
13/16*1/4	"4*1/2
"1*1/8	"4**1
"1*5MM	"5*1/8
"1*1/4	"5**1
"1*3/8	"2*5/16
"1*1/2	"2*3/8
"1*3/4	"2*1/2
"1 1/4*1/8	"2*5/8
"1 1/4*5MM	"2*3/4
"1 1/4*1/4	"2**1
"1 1/4*3/8	"2 3/8*9/32
"1 1/2*1/8	"2 1/2*1/4
"1 1/2*5MM	"2 1/2*3/8
"1 1/2*1/4	"2 1/2*1/2
"1 1/2*5/16	
"1 1/2*3/8	
"1 1/2*1/2	
"1 1/2*3/4	
"1 1/2**1	
"2*1/8	
"2*5MM	
"2*1/4	

10MM*4MM	38MM*40MM
11MM*7MM	20MM*10MM
15.2MM*7.8MM	40MM*30MM
16.5MM*10.6MM	50.6*1.6MM
20MM*5MM	50MM*8MM
24.5*1.3MM	50MM*10MM
30MM*10MM	50MM*15MM
32*6.5MM	51.4*1.6MM
34MM*15MM	51.7MM*1.9MM
35MM*6MM	60MM*10MM
39MM*1.8MM	60MM*12MM
40MM*5MM	68MM*16MM
40MM*10MM	82MM*3.6MM
41MM*10MM	84*3MM
43MM*13.5MM	
45MM*5MM	
48.5MM*12.3MM	
22MM*1.5MM	
50MM*2.1MM	

ALUMINIUM SHEETS

ALUMINIUM SHEETS

Sr.	Thickness	Size	Size
1	0.5 MM	3'X8'	
2	0.6 MM	3'X8'	3'X8'
3	0.7 MM	4'X8'	
4	0.8 MM	4'X8'	
5	0.1 MM	4'X8'	
6	1.2 MM	4'X8'	
7	1.5 MM	4'X8'	
8	02 MM	4'X8'	
9	2.5 MM	4'X8'	
10	03 MM	4'X8'	
11	04 MM	4'X8'	
12	05 MM	4'X8'	
13	06 MM	4'X8'	
14	08 MM	4'X8'	
15	10 MM	4'X4'	
16	12 MM	4'X4'	



BRASS SHEETS

BRASS SHEETS

Sr.	Thickness	Size
1	0.5 MM	2'x4'
2	0.8 MM	2'x4'
3	01 MM	2'x4'
4	1.2 MM	2'x4'
5	1.5 MM	2'x4'
6	02 MM	2'x4'
7	2.5 MM	2'x4'
8	03 MM	2'x4'
9	04 MM	2'x4'
10	05 MM	2'x4'
11	06 MM	2'x4'
12	08 MM	2'x2'
13	10 MM	2'x2'
14	12 MM	2'x2'



S.S SHEETS 304, 316 (IMPORTED)

S.S SHEETS 304, 316

Sr.	Thickness	Size	Size	Size
1	0.5 MM	1220X2440		
2	0.8 MM	1220X2440		
3	01 MM	1220X2440		
4	1.2 MM	1220X2440	1500X3000	
5	1.5 MM	1220X2440	1500X3000	COIL 4 & 5 FT
6	02 MM	1220X2440	1500X3000	COIL 4 & 5 FT
7	2.5 MM	1220X2440	1500X3000	COIL 4 & 5 FT
8	03 MM	1220X2440	1500X3000	COIL 4 & 5 FT
9	04 MM	1220X2440	1500X3000	COIL 4 & 5 FT
10	05 MM	1220X2440	1500X3000	COIL 4 & 5 FT
11	06 MM	1220X2440	1500X3000	COIL 4 & 5 FT
12	08 MM	1220X2440	1500X3000	
13	10 MM	1220X2440	1500X3000	
14	12 MM	1220X2440	1500X3000	
15	16 MM	1220X2440	1500X3000	
16	20 MM	1220X2440		
17	25 MM	1220X2440		



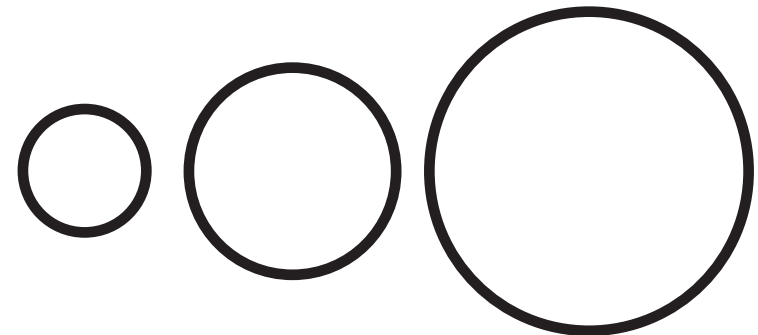
S.S PIPES 201, 304 (IMPORTED)

S.S PIPES 201

Sr.	Thickness	Size
1	3/8	2"
2	1/2	2.5"
3	5/8	3"
4	3/4	SQ PIPE
5	1"	1X1"
6	1.25"	1.5X1.5"
7	1.5"	2X2"

S.S PIPES 304

Sr.	Thickness	Size
1	3/4	SCHEDULE 10
2	1"	SCHEDULE 10
3	1.25"	SCHEDULE 10
4	1.5"	SCHEDULE 10
5	2"	SCHEDULE 10
6	3"	SCHEDULE 10
7	4"	SCHEDULE 10



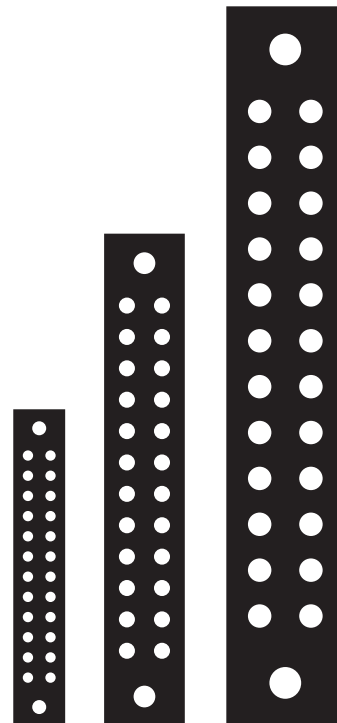
COPPER BUS BARS

COPPER BUS BARS

Sr.	Thickness
1	12.7X3 MM
2	20X3 MM
3	20X5 MM
4	20X6 MM
5	25X5 MM
6	25X6 MM
7	25X 10 MM
8	30X5 MM
9	30X 10 MM
10	40X5 MM
11	40X 10 MM
12	50X5 MM
13	50X 10 MM
14	60X 10 MM
15	80X 10 MM
16	100X 10 MM
17	120X 10 MM
18	150X 10 MM

THICKNESS

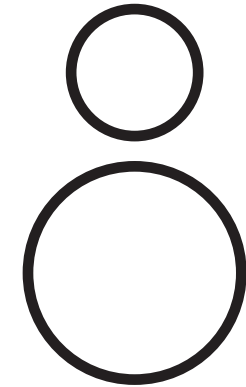
PURITY MIN: 99.50%
 SIZE MAX: SIZE: 03 MM - 12.7 MM
 20 MM - 150 MM



COPPER PIPES & COPPER ROPE

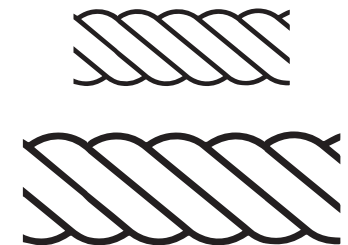
COPPER PIPES 99.5%

Sr.	SIZE
1	6 MM
2	8 MM
3	3/8"
4	1/2"
5	5/8"
6	1"
7	1.5"
8	2"
9	3"



COPPER ROPE 99.5% PURE

Sr.	SIZE
1	6 MM
2	10 MM
3	16 MM
4	25 MM
5	35 MM
6	50 MM
7	70 MM
8	95 MM
9	120 MM



COPPER SHEETS

COPPER SHEETS 99.5% PURE

Sr.	Thickness	Size
1	0.5 MM	2'x4'
2	0.8 MM	2'x4'
3	01 MM	2'x4'
4	1.2 MM	2'x4'
5	1.5 MM	2'x4'
6	02 MM	2'x4'
7	2.5 MM	2'x4'
8	03 MM	2'x4'
9	04 MM	2'x4'
10	05 MM	2'x4'
11	06 MM	2'x4'
12	08 MM	2'x2'
13	10 MM	2'x2'
14	12 MM	2'x2'



BRASS RODS - ROUND, HEXAGONAL, SQUARE

BRASS RODS 4MM DIA TO 150 MM ROUND, HEXAGONAL, SQUARE

Sr.	SIZE
1	4 MM
2	5 MM
3	6 MM
4	8 MM
5	9.5 MM
6	12.7 MM
7	16 MM
8	19 MM
9	22 MM
10	25 MM
11	28 MM
12	30 MM
13	38 MM
14	50 MM
15	62 MM
16	88 MM
17	100 MM
18	125 MM
19	150 MM



ROUND



SQUARE



HEXA
GONAL

BRASS PIPE

Sr.	Thickness	Size
1	06 TO 50.8 MM	01 MM TO 3 MM
2	9.5 MM TO 50.8 MM	01 MM TO 3 MM

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Pakistan Council of Scientific & Industrial Research

PAKISTAN INSTITUTE OF TECHNOLOGY FOR MINERALS
AND ADVANCED ENGINEERING MATERIALS
FEROZEPUR ROAD, LAHORE-54600 - PAKISTAN

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TEST REPORT

Report No: PITMAEM/SA/10225-03/12

Dated: 19-03-2012

Name & Address of Customer: M/s G.R. Metal Industries, 19.K.M. Multan Road, Lahore.
Request Ref. # & Date: G-R-12/A Dated: 13-03-2012
Description of Sample: Hardness test of provided sample
ILO Log # and Date: 279 Dated: 14-03-2012
Method used /Specs: ASTM E 18
Statement of Non-compliance: Nil

Sheet No: 1/1
No. of Sample(s): One (01)
Ref/Code #: NDT # 441
Temp. & Humidity: -
Testing Date: 16-03-2012

RESULTS

Sample ID	Hardness (HB)
01	63.5

◆-----◆ END ◆-----◆

- This test report is based solely on the particular sample(s) supplied by the client and should not be reproduced in part.
- Sampling has not been performed by the PCSIR Labs and the PCSIR does not accept the responsibility that the sample(s) supplied is/are truly representative sample(s) of any batch or stock or entire production.
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- The party shall assume full responsibility for the ethical use of the results in the test reports and the laboratory shall be held free from any and all claims, which may result from the use of such data by the client or others.
- This test report shall not be reproduced wholly or in parts unless negotiated.
- After completion of the report the sample will be preserved for one month until negotiated otherwise.
- The contents of this report cannot be, in any manner, used for the publicity of the product or any advertisement.

Report prepared by:

Engr. Badaruddin Soomro
 Section Incharge

Engr. Muhammad Irfan
 Head, PITMAEM

Countersignature

Director General

CERTIFICATE



Pakistan Council of Scientific & Industrial Research

PAKISTAN INSTITUTE OF TECHNOLOGY FOR MINERALS
AND ADVANCED ENGINEERING MATERIALS
FEROZEPUR ROAD, LAHORE-54600 - PAKISTAN

Doc. # LLC/QMR/FF/030 Issue # 01 Rev. # 01 Issue Date: Nov. 01, 2006 Page 1 of 1



TEST REPORT

Report No: PITMAEM/SA/10226-03/12

Dated: 19-03-2012

Name & Address of Customer: M/s G.R. Metal Industries, 19.K.M. Multan Road, Lahore.
Request Ref. # & Date: G-R-12/A Dated: 13-03-2012
Description of Sample: Anodizing thickness of provided sample
ILO Log # and Date: 280 Dated: 14-03-2012
Method used /Specs: ASTM E 3, B 487-85
Statement of Non-compliance: Nil

Sheet No: 1/1
No. of Sample(s): One (01)
Ref/Code #: MTG # 675
Temp. & Humidity: -
Testing Date: 19-03-2012

RESULTS

Sample ID	Anodizing Thickness (microns)
01	10

◆-----◆ END ◆-----◆

- Measurement uncertainty can be provided on request for tests which are included the scope of ISO-17025.
- This test report is based solely on the particular sample(s) supplied by the client and should not be reproduced in part.
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Report prepared by:

Engr. Badaruddin Soomro
 Section Incharge

Engr. Muhammad Irfan
 Head, PITMAEM

Countersignature

Director General

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GOVERNMENT OF PAKISTAN
MINISTRY OF SCIENCE & TECHNOLOGY
PAKISTAN STANDARDS AND QUALITY CONTROL AUTHORITY

Sr. No.22288



TECHNICAL SERVICES CENTRE (FORMER MIRDC)
DOCUMENTATION DIVISION

Report No: PSQCA/TSC/DOC/J-44935
Your Ref. # Nil dated 12.03.2012.

Dated: 15.03.2012

TEST REPORT

Name & Address of Client: M/s. GR. Aluminium Industries, 19-K.M. Multan Road, Lahore.

Description of Job: Spectroscopic analysis of Aluminium Alloy Section(GR-2012).

Description of Sample(s): Al-Alloy Section Sample No. of Sample: 01

Method used/Specs. OES. Temp. & Humidity: N.A No. of Sheet: 01

Statement of Non-Compliance: N.A

Sr. No.	Job No.	Sample Identity	Al%	Si%	Mg%	Cu%	Mn%	Sn%	Ti%	Pb%
01	44934	Al-Alloy Section	98.67	0.41	0.49	0.052	<0.03	<0.03	0.017	0.12

(END OF REPORT)

TERMS & CONDITIONS

- i) The above results pertain to the sample(s) received at TSC-PSQCA, Lahore and are not applicable for product certification.
- ii) TSC Labs do not guarantee the quality of the stock from where the sample(s) was / were drawn. Any misuse of this report in any manner is illegal.
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- iv) This test report shall not be reproduced except in full without written approval of the lab authorities.
- v) Only Retained sample will be kept for fifteen (15) days after issuance of its report after which it will be disposed off.
- vi) The original report bears embossed punch of TSC-PSQCA Monogram.

AMINA QASIM
 Junior Scientific Officer (Services Div.)

Engr. GHULAM MURTAZA
 Deputy Chief Engineer(Documentation Division)

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GOVERNMENT OF PAKISTAN
MINISTRY OF SCIENCE & TECHNOLOGY
PAKISTAN STANDARDS AND QUALITY CONTROL AUTHORITY

Sr. No.19482



TECHNICAL SERVICES CENTRE (FORMER MIRDC)
DOCUMENTATION DIVISION

Report No: PSQCA/TSC/DOC/J-44935
Your Ref. # Nil dated 12.03.2012.

Dated: 16.03.2012

TEST REPORT

Name & Address of Client: M/s. GR. Aluminium Industries, 19-K.M. Multan Road, Lahore.

Subject: Measurement of Powder Coating Thickness in Microns(Al-Alloy Sections 2012/A).

Description of Sample(s): Al-Alloy Sections Sample No. of Sample: 01

Method used/Specs. CTM Temp. & Humidity: N.A No. of Sheet: 01

Statement of Non-Compliance: N.A.

Coating Thickness Measurement:

Sr. No.	Job No.	Sample Identity	Finding	Average
01	44935	Al-Alloy Sections	77.9, 75.8, 83.8, 115.0, 123.0 Microns	95.10 Microns

(END OF REPORT)

TERMS & CONDITIONS

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 Head of the Metallurgical Engg. Div.

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Pakistan Council of Scientific & Industrial Research
 PAKISTAN INSTITUTE OF TECHNOLOGY FOR MINERALS
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 FEROEZPUR ROAD, LAHORE-54600 – PAKISTAN

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TEST REPORT

Report No: PITMAEM/SA/10227-03/12

Dated: 19-03-2012

Name & Address of Customer: M/s G.R. Metal Industries, 19.K.M. Multan Road, Lahore.
Request Ref. # & Date: G-R-12/A Dated: 13-03-2012
Description of Sample: Coating thickness of provided sample
ILO Log # and Date: 281 Dated: 14-03-2012
Method used /Specs: ASTM E 3, B 487-85
Statement of Non-compliance: Nil

Sheet No: 1/1
No. of Sample(s): One (01)
Ref/Code #: MTG # 676
Temp. & Humidity: -
Testing Date: 19-03-2012

RESULTS

Sample ID	COATING Thickness (microns)
01	24

◆-----◆ END ◆-----◆

- Measurement uncertainty can be provided on request for tests which are included the scope of ISO-17025.
- This test report is based solely on the particular sample(s) supplied by the client and should not be reproduced in part.
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Report prepared by:

[Signature]
 Engr. Badaruddin Soomro
 Section Incharge

[Signature]
 Engr. Muhammad Irfan
 Head, PITMAEM

Countersignature

[Signature]
 Director General

CERTIFICATE



PSQCA

Sr. No.19481
GOVERNMENT OF PAKISTAN
MINISTRY OF SCIENCE & TECHNOLOGY
PAKISTAN STANDARDS AND QUALITY CONTROL AUTHORITY



TECHNICAL SERVICES CENTRE (FORMER MIRDC)
 DOCUMENTATION DIVISION

Report No: PSQCA/TSC/DOC/J-44934
 Your Ref. # Nil dated 12.03.2012.

Dated: 16.03.2012

TEST REPORT (MILL FINISH)

Name & Address of Client: M/s. GR. Aluminium Industries, 19-K.M. Multan Road, Lahore.

Subject: Measurement of Coating Thickness in Microns & Hardness(BHN) of Al-Alloy Sections GR-2012.

Description of Sample(s): Al-Alloy Sections Sample No. of Sample: 01

Method used/Specs. CTM Temp. & Humidity: N.A No. of Sheet: 01

Statement of Non-Compliance: N.A.

Coating Thickness Measurement:

Sr. No.	Job No.	Sample Identity	Finding	Average	Hardness with Scale
01	44934	Al-Alloy Sections	1.3, 1.5, 1.5, 1.2, 1.4 Microns	1.38 Microns	74.0 BHN 74.5 BHN 74.5 BHN

(END OF REPORT)

TERMS & CONDITIONS

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[Signature]
 CH. IKRAM UL HAQ
 Head of the Metallurgical Engg. Div.

[Signature]
 Engr. GHULAM MURTAZA
 Deputy Chief Engineer (Documentation Division)

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GR METAL INDUSTRY

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