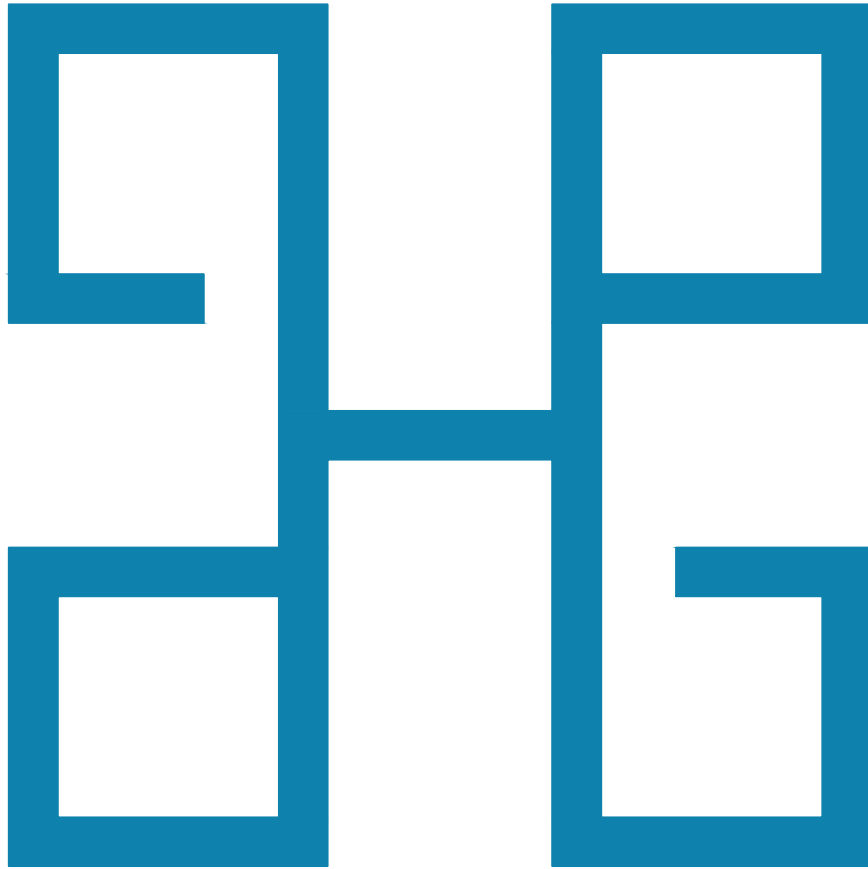


HYDRO ALUMINIUM LIMITED



PROFILES CATALOGUE

BUILDING THE FUTURE, RESTORING THE PAST



HYDRO ALUMINIUM
LIMITED

COMPANY PROFILE

Mission

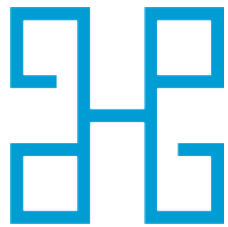
Our goal is to be a reliable brand in the market that will run for generations producing high-quality products that meet international standards. Bridging the gap of quality, consistency, and timeliness in the industry, is at the core of our company. With that in mind, we have made it our sole purpose to become a solution to the market.

Vision

To provide a framework with which modern Africa is built.

Core Values

Honesty and Integrity. Strong ethics build strong foundations. Conducting ourselves in transparency and a trustworthy manner is at the core of Hydro Aluminium Limited.



HYDRO ALUMINIUM LIMITED



About Us

Hydro Aluminium Limited was incorporated in 2016, where it began as a small-scale fabrication facility with only four members. In 2017, we commissioned machinery, and by mid-2018, we commenced mass extrusion. From the onset, we set out in our hearts that for whatever we undertake high quality and value to our customers will be at our core. That is why, currently, we are among the leading manufacturers of high-quality aluminium sections in East and Central Africa. We know and understand that meeting deadlines is very crucial in the industries we serve; therefore, we have mandated ourselves to deliver in a timely manner.

What we do

We are an aluminium extrusion manufacturer based in Kenya. We supply aluminium sections to several industries both locally and internationally. The major sectors we serve include: the building & construction industry, the automotive industry and the renewable energy sector.

Why us

We have an in-house foundry through which we ensure that every single extruded aluminium profile meets international standards. We also understand that time is a valuable commodity to our customers; therefore, timely delivery is our top priority.

Our Products

- Architectural
- Automotive
- Solar Panels
- Electrical Hardware
- Any customized Aluminium Extrusion

SN: 000000

KAM 60 Years
Kenya Association of Manufacturers

This is to Certify that

Hydro Aluminium Limited

is a member of KAM and subscribes to the values enshrined in the Association's Code of Ethics.

Validity: January to December 2026


Chief Executive


Chairman

Membership No. **KAM-13-07-150**





ORIGINAL FORM 2023

PERMIT TO USE THE STANDARDIZATION MARK
THE STANDARDS ACT (CAP.498)

PERMIT IS GRANTED TO:

NAME OF FIRM: **HYDRO ALUMINIUM LIMITED** MARK NO: **SMK35108**

POSTAL ADDRESS: **BOX 38720 00600 NAIROBI** EFFECTIVE FROM: **13-11-2024**

PHYSICAL ADDRESS: **WINDGET BUILDING GROUND FLOOR PLOT NO 208 KIBERA INDUSTRIAL ESTATE NAIROBI** EXPIRES ON: **13-11-2026**

TELEPHONE NO: **0727533554** DATE OF ISSUE: **13-11-2024**

FAX NO: **null**

EMAIL ADDRESS: **INFO@HYDROALUMINIUM.CO.KE**

To use the standardization mark of quality specified in the row hereunder upon and in respect of the commodity and brand specified in the second and third rows there of, which commodity:

1. STANDARDIZATION MARK: 

2. DESCRIPTION OF THE COMMODITY UPON WHICH THE STANDARDIZATION MARK IS TO BE USED: **ALUMINIUM SECTIONS**

3. BRAND NAME: **HYDRO (HAL)**

4. STANDARD SPECIFICATION (Number and Title): **BS EN 755-2 Aluminium and aluminium alloys-Extruded rod/bar, and profiles(Mechanical properties)**

1. EVERY STANDARDIZATION MARK HOLDER SHALL PAY AN ANNUAL FEE IN RESPECT OF EACH PERMIT GRANTED OR RENEWED.

2. THIS PERMIT IS ISSUED SUBJECT TO THE CONDITIONS SET OUT IN THE CONTRACT FOR USE OF THE STANDARDIZATION MARK OF QUALITY.

MANAGING DIRECTOR / AUTHORIZED OFFICER

KENYA BUREAU OF STANDARDS

 Kenya Bureau of Standards

ORIGINAL FORM 2023

PERMIT TO USE THE STANDARDIZATION MARK
THE STANDARDS ACT (CAP. 498 OF THE LAWS OF KENYA)

PERMIT IS GRANTED TO:

NAME OF FIRM: **HYDRO ALUMINIUM LIMITED** STANDARDIZATION MARK NO: **35108**

POSTAL ADDRESS: **P.O BOX 38720 NAIROBI 00600** EFFECTIVE FROM: **2022-10-11**

PHYSICAL ADDRESS: **SILVER COIN BUSINESS PARK, JULIA** EXPIRES ON: **2024-10-10**

TELEPHONE NO: **0789-473634** DATE OF ISSUE: **2022-10-19**

FAX NO:

E-MAIL ADDRESS: **info@hydroaluminium.co.ke**

To use the standardization mark specified in the first row hereunder upon and in respect of the commodity and brand specified in the second and third rows there of, which commodity, conform to the standard specification in the fourth row.

1. STANDARDIZATION MARK: 

2. DESCRIPTION OF THE COMMODITY UPON WHICH THE STANDARDIZATION MARK IS TO BE USED: **ALUMINIUM SECTIONS**

3. BRAND NAME: **HYDRO (HAL)**

4. STANDARD SPECIFICATION (Number and Title): **BS EN 755-2 Aluminium and aluminium alloys-Extruded rod/bar, and profiles(Mechanical properties)**

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MANAGING DIRECTOR / AUTHORIZED OFFICER

KENYA BUREAU OF STANDARDS

 Kenya Bureau of Standards

ORIGINAL FORM 2023

PERMIT TO USE THE STANDARDIZATION MARK
THE STANDARDS ACT (CAP. 498 OF THE LAWS OF KENYA)

PERMIT IS GRANTED TO:

NAME OF FIRM: **HYDRO ALUMINIUM LIMITED** STANDARDIZATION MARK NO: **35108**

POSTAL ADDRESS: **P.O BOX 38720 NAIROBI 00600** EFFECTIVE FROM: **2020-10-11**

PHYSICAL ADDRESS: **SILVER COIN BUSINESS PARK, JULIA** EXPIRES ON: **2022-10-10**

TELEPHONE NO: **0789-473634** DATE OF ISSUE: **2020-06-31**

FAX NO:

E-MAIL ADDRESS: **info@hydroaluminium.co.ke**

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MANAGING DIRECTOR / AUTHORIZED OFFICER

KENYA BUREAU OF STANDARDS

 Kenya Bureau of Standards

ORIGINAL FORM 2023

PERMIT TO USE THE STANDARDIZATION MARK
THE STANDARDS ACT (CAP. 498 OF THE LAWS OF KENYA)

PERMIT IS GRANTED TO:

NAME OF FIRM: **HYDRO ALUMINIUM LIMITED** STANDARDIZATION MARK NO: **35108**

POSTAL ADDRESS: **P.O BOX 38720 NAIROBI 00600** EFFECTIVE FROM: **2025-10-11**

PHYSICAL ADDRESS: **SILVER COIN BUSINESS PARK, JULIA** EXPIRES ON: **2020-10-10**

TELEPHONE NO: **0789-473634** DATE OF ISSUE: **2019-10-30**

FAX NO:

E-MAIL ADDRESS: **info@hydroaluminium.co.ke**

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1. STANDARDIZATION MARK: 

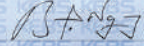
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MANAGING DIRECTOR / AUTHORIZED OFFICER

KENYA BUREAU OF STANDARDS

 Kenya Bureau of Standards

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This is the current catalogue as of September 2026

This supercedes all other previous publications

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MATERIAL SPECIFICATIONS

MECHANICAL PROPERTIES AND CHEMICAL COMPOSITION OF ALUMINIUM ALLOY AA6063, IN TEMPER T5 & T6

CHEMICAL COMPOSITION	
Content	ALLOY AA6063
% Mg	0.45 - 0.90
% Si	0.20 - 0.60
% Cr	0.10
% Zn	0.10
% Fe	0.35
% Cu	0.10
% Mn	0.10
% Ti	0.10
Other impurities	0.05
Aluminium	Remainder

MECHANICAL PROPERTIES		Al 6063	
Properties	Unit	T5	T6
Ultimate Tensile Strength	N/mm ²	150	250
0.2 % Proof Stress	N/mm ²	110	160
Hardness (Brinell)	BHN	55	65
Ult. Shear Strength	N/mm ²	155	
Elongation on 50 mm	%	8	
Density	g/cm ³	2.7	
Melting Range	g/cm ³	600-500	
Coefficient on Linear Expansion	X10 ⁻² Deg °C	23	
Modulus Of Elasticity	N/mm ²	67000	
Fatigue Strength (50*10 ⁶) Cycle	N/mm ²	75	

TEMPER

T4 : Solution heat treatment and naturally aged to substantially stable condition.

T5 : Cooled from an elevated temperature shaping process and then artificially age hardened.

T6 : Solution heat treatment and age hardened.

FIRE RATING

Aluminium alloys are non-combustible and rated AA (the highest possible under this classification system-BS 476: Part 6-755-2).

POWDER COATING FINISH

- GLOSS LEVEL
- -High Gloss (85 +/-5)
- -Gloss (75 +/-5)
- -Semi-Gloss (Range 45-65)
- -Matte (30 +/-5)
- -Dead Matte (5 +/-3)

- Fine Texture
- Texture
- Sandblasted
- Grit
- Hammered

Note: The finishes mentioned above are readily available. Any alternative options will necessitate samples for necessary adjustments with our suppliers on a project-by-project basis. It is always advisable to submit a sample and/or request one.



MATERIAL SPECIFICATIONS

EXTRUSION PRESS SIZE

1. 1100 MT Press
2. BILLET DIAMETER 127 mm (5 Inches)

MAXIMUM SIZE POSSIBLE

Solid : 115 mm CCD

Hollow: 95 mm CCD

ALLOY CHARACTERISTIC

AA 6063 : This is the most popular extrusion alloy, it has a good surface finish, is corrosion resistant and can be heat treated for strength.

AA 6061: Its the most versatile alloy of heat treatable group. It is an improved magnesium silicide alloy with the ability to develop strengths somewhat higher than 6063 alloy; good corrosion resistance and is used in transportation and structural applications.

AA 6082: Similarly this alloy has good tensile strength having good extrudability ; Widely chosen for Automobile profiles Structures with complex sections, Structural engineering, Pylons, Platforms, Pipelines, Masts for sailing boats etc...



TOLERANCE

WHAT IS TOLERANCE?

Taking into account that in design and production of extruded products, manufacturing processes have limits of accuracy that happens due to technology and economics.

Due to this; Products sometimes have variables in dimensions that are within acceptable limits.

Those limits are called **Tolerances**.

WHERE TOLERANCE ARE APPLICABLE

In accordance with the extruded product that comes in specified dimensions of its cross-section and specifying the length, the allowed tolerances are usually expressed in plus-or-minus fractions or percentages of a dimension.

Other than a special specification of a die, which may be consulted with the Extruder, Standard Industry Tolerances are always applied.

Standard tolerances for extruded rod, bar and shapes are applied to cross section/wall thickness, length, straightness, twist, flatness, surface roughness, end cut squareness

(vertical and transverse), contour (curved surfaces), corner and fillet radii and angularity.

Extruded tube has standard tolerances for diameter, wall thickness, width and depth for square or rectangular tubes.

STANDARD TOLERANCES

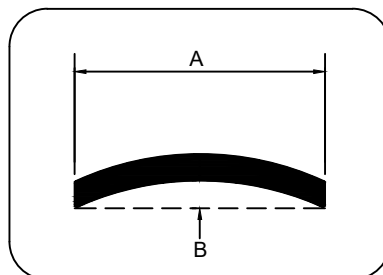
Standard tolerances are not simple, uniform fractional formulas. There are many different specific numbers of formulas published in tables.

The various tolerances are established to match the various degrees of controlling different toleranced dimensions.

As a result, tolerances vary with cross-sectional size (as measured by the profile's fit within a circumscribing circle), and even with the location of each dimension on a complex shape.

Alloy composition and temper also influence certain tolerances, and are reflected in the standard tolerance tables. But their significance is simple and important: under standard tolerances, aluminium extrusions are produced with dimensions accurate within tenths or hundredth of a millimeter.

For most purposes, that is a more than ample degree of precision.





TOLERANCE

EFFECTS OF TOLERANCES ON PRODUCTS

1. Concavity & Convexity

Width (mm)	Tolerance
	Maximum (mm)
25 mm	0.125
50 mm	0.250
75 mm	0.375
100 mm	0.500

Dimensional tolerances are rounded down to the nearest 0.05mm, because all callipers used to measure metal dimensions are almost universally graduated at intervals of 0.05mm.

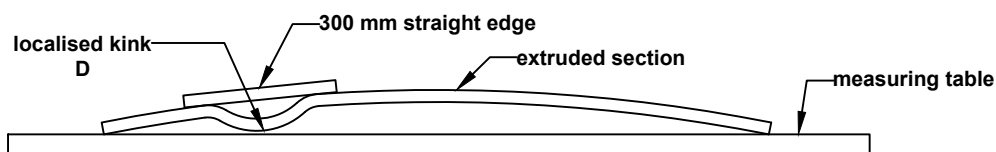
2. Bow

The function of any particular shape is paramount, and under this provision, negotiation and agreement between the customer and the extruder is encouraged, particularly at the design stage.

Width (mm)	Tolerance
	Maximum (mm)
25 mm	0.125
50 mm	0.250
75 mm	0.375
100 mm	0.500

Dimensional tolerances are rounded down to the nearest 0.05mm, because all callipers used to measure metal dimensions are almost universally graduated at intervals of 0.05mm.

Straightness Tolerance for Extruded Products:





TOLERANCE

Alloy and Temper	Allowable deviation from straightness, D, mm	
	In any length 300mm	Maximum (mm)
6101-T5	0.2	0.7 L
6063 -T5 & T52	0.2	0.7 L
6060 -T5 & T52	0.2	0.7 L
All other alloys and tempers	0.6	2 L

3.Bars & Regular Section

(i). Width and Diameter

Diameter, width or across flats		Tolerance + (mm) - (mm)
Over (mm)	Up to and including (mm)	
	3	0.16
3	10	0.20
10	18	0.26
18	30	0.32
30	40	0.40
40	60	0.45
60	80	0.50
80	100	0.65

(ii). Thickness

Diameter, width or across flats		Thickness (mm)										
Up to and including (mm)		over		1.6	3.0	6	10	18	30	40	60	80
		Up to & incl.	1.6	3.0	6	10	18	30	40	60	80	100
-	10		0.16	0.18	0.20	0.22						
10	18		0.18	0.20	0.22	0.24	0.26					
18	30		0.22	0.24	0.26	0.28	0.30	0.32				
30	60		0.24	0.26	0.28	0.30	0.33	0.36	0.40			
60	80		0.28	0.30	0.32	0.34	0.37	0.40	0.43	0.45	0.50	
80	100		0.32	0.34	0.36	0.39	0.42	0.45	0.48	0.52	0.65	0.80



TOLERANCE

(iii). Width, (width across flats & thickness)

Diameter, width or across flats			Thickness (mm)						
Over (mm)	Up to and including (mm)	Tolerance + (mm) - (mm)	over		1.6	3.0	6	10	18
			Up to & incl.	1.6	3.0	6	10	18	30
	3	0.16							
3	10	0.20							
10	18	0.26		0.20	0.22				
18	30	0.32		0.26	0.28	0.32			
30	40	0.40		0.32	0.36	0.41	0.48		
40	60	0.45		0.32	0.36	0.41	0.48		
60	80	0.50		0.36	0.41	0.48	0.58	0.68	
80	100	0.65			0.48	0.58	0.68	0.82	1.0

(iv). Diameter of tubing

Nominal outside diameter		Tolerance on actual diameter + (mm) - (mm)	Tolerance on mean diameter + (mm) - (mm)
Over (mm)	Up to and including (mm)		
12	18	0.25	0.19
18	30	0.30	0.23
30	40	0.36	0.27
40	50	0.4500	0.34
50	60	0.54	0.40
60	80	0.6	0.45
80	100	1% of diameter	3/4% of diameter

1. Measured at the corners.
2. The tolerances apply to; non-heat treated sections and tubing of wall thickness not less than 1.6mm or 1/32 of the overall width or outside diameter (whichever is greater), and to heat treated sections and tubing of wall thickness not less than 1.6mm or 1/24 of the overall width, or outside diameter (whichever is the greater).
The maximum tolerance on concavity and convexity is 0.05mm per 10.0mm of width.
3. In the case of tubing in straight lengths, the tolerance limits are inclusive of ovality.



TOLERANCE

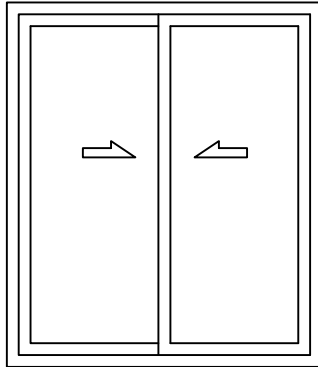
(v). Diameter of tubing

Nominal thickness	Tolerance on actual diameter + (mm) - (mm)	Thickness at any point	
		Max (mm)	Min (mm)
1.6	0.18	1.84	1.36
2.0	0.20	2.27	1.76
2.5	0.22	2.80	2.20
3.0	0.27	3.36	2.64
4.0	0.31	4.42	3.58
5.0	0.37	5.49	4.51
6.0	0.43	6.58	5.42
7.0	0.51	7.67	6.33
8.0	0.56	8.76	7.34
10.0	0.65	10.85	9.15
12..0	0.77	13.03	10.97
12.0	0.88	15.24	12.76

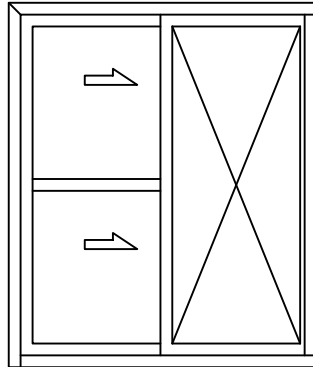
These tolerances on wall thickness do not apply where tolerances on both outside and inside diameter are required. Mean thickness is the average of the wall thickness measured at four equidistant points around the circumference.



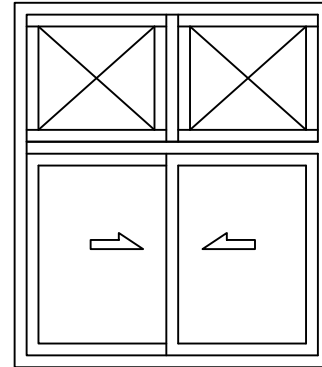
APPLICATIONS



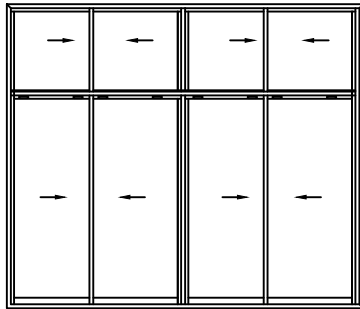
DOUBLE SLIDING



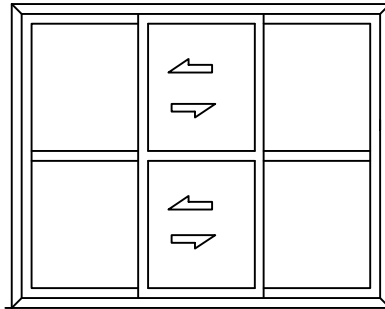
SINGLE SLIDING



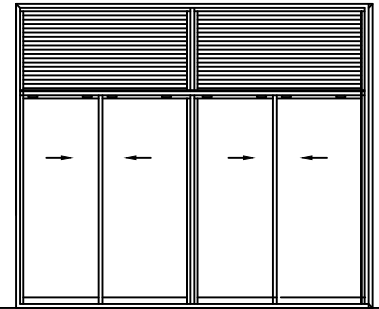
SLIDING WITH FIXED TOP



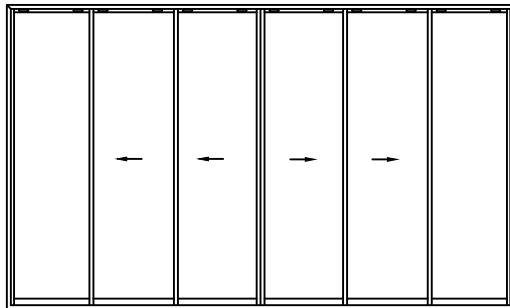
DOUBLE SLIDING TOP AND
BOTTOM



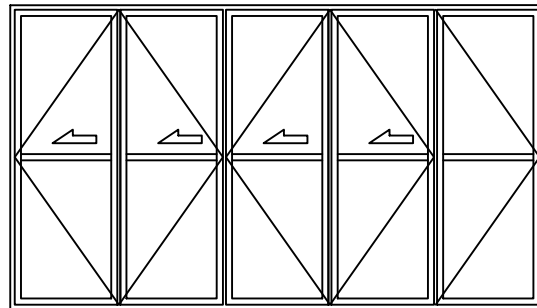
SLIDING AND FIXED



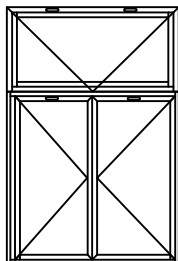
SLIDING LOUVERED TOP



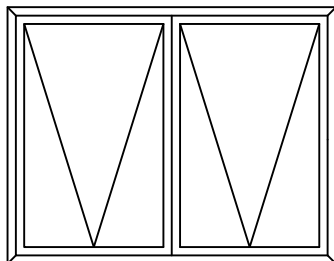
THREE TRACK SLIDING



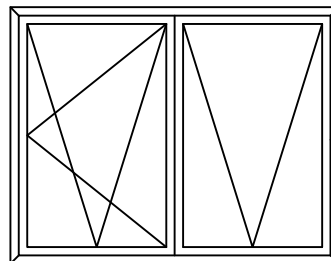
SLIDING BY FOLDING



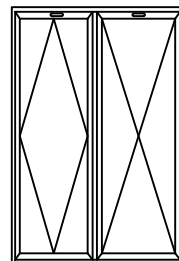
CASEMENT WITH
TOP HUNG



PROJECTING /TOP HUNG



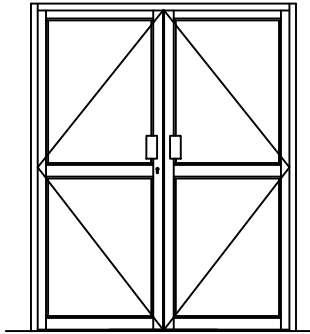
TILT AND TURN



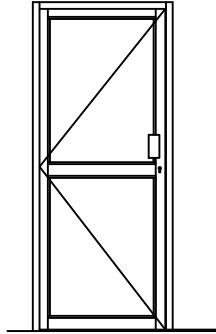
FIXED WITH PIVOT



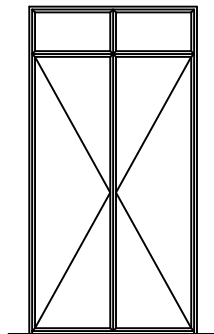
APPLICATIONS



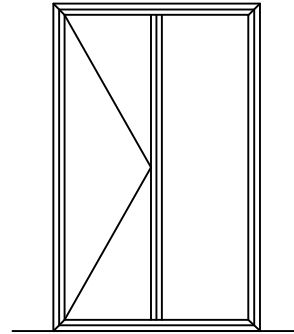
DOUBLE HUNG



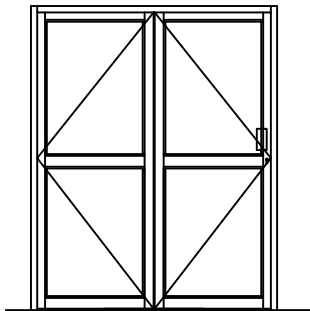
SINGLE HUNG



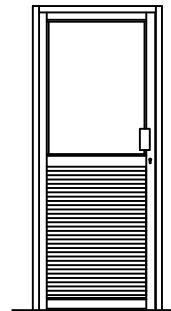
DOUBLE HUNG
WITH FIXED TOP



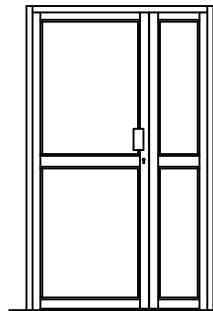
SINGLE HUNG WITH
FIXED SIDE



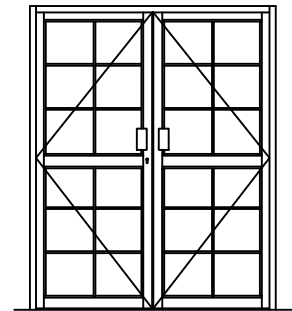
DOUBLE HUNG LAPPED



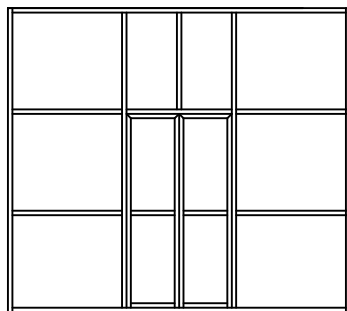
SINGLE HUNG
WITH LOUVRE



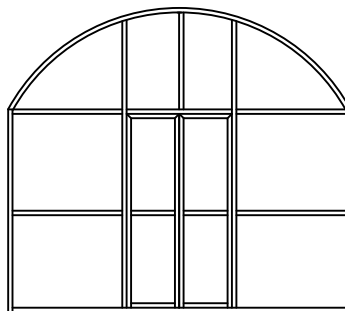
SINGLE HUNG
WITH EXTENSION



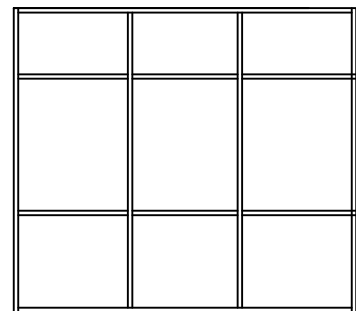
DIVIDED DOOR



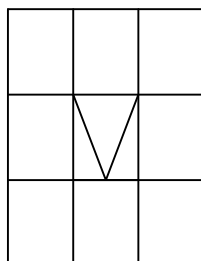
SHOP FRONT



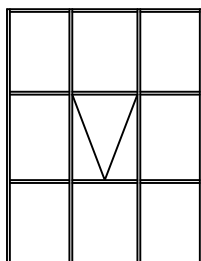
SHOP FRONT



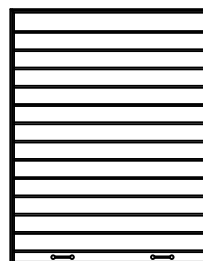
PARTITIONING



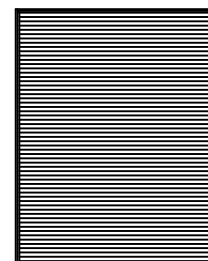
STRUCTURAL GLAZING



CURTAIN WALLING



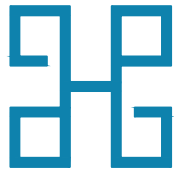
ROLLER SHUTTERS



LOUVERS
/SUN BREAKERS

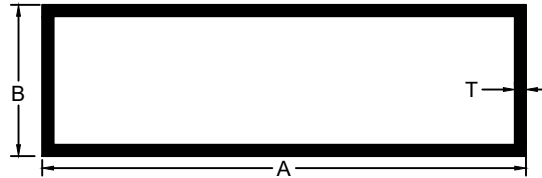


REGULAR PROFILES



REGULAR PROFILES

RECTANGULAR TUBES



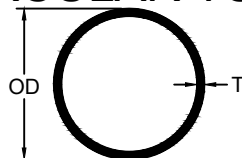
RECTANGULAR TUBES						
NO.	OLD CODE	NEW CODE	A	B	T	Kg/M
1	109-0924	001-09-024	45.00	25.00	1.20	0.46
2	109-0903	001-09-003	45.00	25.00	1.50	0.58
3	109-0913	001-09-013	50.00	25.00	1.20	0.50
4	109-0925	001-09-025	50.00	25.00	2.00	0.81
5	221-0114	001-09-032	50.00	40.00	2.00	0.98
6	109-0914	001-09-014	60.00	40.00	1.50	0.83
7	109-0904	001-09-004	70.00	25.00	1.20	0.63
8	109-0905	001-09-005	70.00	45.00	1.20	0.77
9	109-0906	001-09-006	70.00	45.00	1.50	0.96
10	109-0915	001-09-015	72.00	24.00	2.80	1.44
11	109-0911	001-09-011	76.00	44.00	1.20	0.81
12	109-0912	001-09-012	80.00	40.00	1.20	0.81
13	221-0113	001-09-031	80.00	40.00	2.00	1.32
14	109-0902	001-09-002	100.00	25.00	1.50	1.04
15	109-0907	001-09-007	100.00	45.00	1.20	0.98
16	109-0908	001-09-008	100.00	45.00	1.50	1.21
17	109-0909	001-09-009	100.00	45.00	2.00	1.60
18	109-0930	001-09-030	100.00	45.00	2.80	2.22
19	109-0916	001-09-016	100.00	45.00	3.00	2.37
20	109-0926	001-09-026	100.00	50.00	2.00	1.66
21	109-0910	001-09-010	100.00	65.00	2.00	1.83
22	109-0929	001-09-029	120.00	50.00	1.50	1.42
23	109-0922	001-09-022	120.00	50.00	1.80	1.70
24	109-0927	001-09-027	120.00	50.00	3.00	2.79

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REGULAR PROFILES

CIRCULAR TUBE



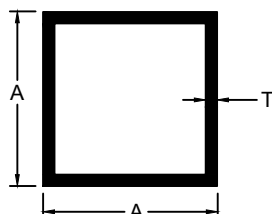
CIRCULAR TUBE						
NO.	OLD CODE	NEW CODE	OD	ID	T	Kg/M
1	105-0513	001-05-013	8.00	5.00	1.50	0.09
2	105-0514	001-05-014	10.00	7.00	1.50	0.12
3	105-0515	001-05-015	12.00	9.00	1.50	0.15
5	105-0502	001-05-002	16.00	13.00	1.50	0.20
6	105-0501	001-05-001	16.00	12.00	2.00	0.25
7	105-0512	001-05-012	18.00	15.00	1.50	0.23
8	105-0517	001-05-017	19.00	16.00	1.50	0.24
9	NEW!	001-05-029	22.00	20.00	1.00	0.19
11	105-0503	001-05-003	25.00	22.00	1.50	0.32
12	105-0504	001-05-004	25.00	21.00	2.00	0.41
13	NEW!	001-05-027	25.00	19.00	3.00	0.59
14	225-1060	001-05-021	25.40	21.40	2.00	0.42
15	373-0201	001-05-030	30.00	25.00	2.50	0.62
16	105-0522	001-05-022	30.00	28.00	1.00	0.26
17	105-0520	001-05-020	35.00	33.00	1.00	0.31
18	NEW!	001-05-028	38.00	32.00	3.00	0.94
19	105-0518	001-05-018	39.70	37.70	1.00	0.35
20	105-0511	001-05-011	40.00	34.00	3.00	0.99
21	218-0535	001-05-010	40.10	36.10	2.00	0.68
22	105-0505	001-05-005	45.00	41.00	2.00	0.77
23	105-0506	001-05-006	45.00	39.00	3.00	1.13
24	105-0507	001-05-007	50.00	46.00	2.00	0.86
25	NEW!	001-05-026	50.00	44.00	3.00	1.26
26	NEW!	001-05-025	60.00	54.00	3.00	1.53
27	370-1035	001-05-024	70.00	67.00	1.50	0.92
28	105-0519	001-05-019	75.00	69.00	3.00	1.93
29	105-0508	001-05-008	100.00	96.00	2.00	1.75
30	105-0509	001-05-009	100.00	94.00	3.00	2.60

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REGULAR PROFILES

SQUARE TUBES



SQUARE TUBES					
NO.	OLD CODE	NEW CODE	A	T	Kg/M
1	108-0801	001-08-001	16.00	1.20	0.21
2	108-0802	001-08-002	16.00	1.50	0.25
3	108-0803	001-08-003	18.00	1.50	0.29
4	108-0804	001-08-004	18.00	2.00	0.37
5	108-0806	001-08-006	25.00	1.20	0.33
6	108-0805	001-08-005	25.00	2.00	0.53
7	108-0812	001-08-012	38.00	2.00	0.82
8	108-0818	001-08-014	38.00	3.00	1.20
9	108-0821	001-08-016	40.00	1.20	0.53
10	108-0809	001-08-009	45.00	1.20	0.60
11	108-0810	001-08-010	45.00	1.50	0.75
12	108-0817	001-08-013	50.00	1.10	0.62
13	108-0807	001-08-007	50.00	1.50	0.83
14	108-0808	001-08-008	50.00	2.00	1.09
15	108-0811	001-08-011	50.00	3.00	1.60
16	108-0819	001-08-015	75.00	1.80	1.50

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REGULAR PROFILES

FLAT BARS



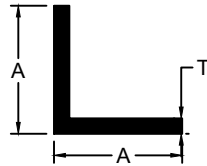
FLAT BARS					
NO.	OLD CODE	NEW CODE	A	T	Kg/M
1	103-0312	001-03-012	14.00	3.00	0.12
2	103-0306	001-03-006	18.00	1.50	0.08
3	103-0305	001-03-005	18.00	3.00	0.16
4	103-0303	001-03-003	25.00	1.50	0.11
5	103-0304	001-03-004	25.00	2.00	0.15
6	103-0309	001-03-009	25.00	3.00	0.22
7	103-0302	001-03-002	30.00	2.00	0.18
8	338-0821	001-03-013	30.00	3.00	0.26
9	NEW!	001-03-016	40.00	5.00	0.57
10	103-0307	001-03-007	45.00	2.00	0.26
11	103-0308	001-03-008	45.00	3.00	0.39
12	NEW!	001-03-015	50.00	3.00	0.43
13	NEW!	001-03-014	50.00	6.00	0.86
14	103-0311	001-03-011	60.00	3.00	0.52

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REGULAR PROFILES

EQUAL ANGLE LINE



EQUAL ANGLES					
NO.	OLD CODE	NEW CODE	A	T	Kg/M
1	107-0716	001-07-016	16.00	1.20	0.11
2	107-0702	001-07-002	16.00	1.50	0.14
3	107-0701	001-07-001	16.00	2.00	0.18
4	107-0717	001-07-017	18.00	1.50	0.15
5	107-0704	001-07-004	18.00	2.00	0.20
6	107-0721	001-07-021	18.00	2.50	0.24
7	107-0703	001-07-003	18.00	3.00	0.29
8	107-0718	001-07-018	25.00	1.20	0.17
9	107-0706	001-07-006	25.00	1.50	0.21
10	107-0715	001-07-015	25.00	2.00	0.28
11	107-0705	001-07-005	25.00	3.00	0.41
12	107-0720	001-07-020	38.00	2.50	0.53
13	107-0722	001-07-022	38.00	2.80	0.58
14	107-0711	001-07-011	38.00	3.00	0.63
15	107-0712	001-07-012	38.00	4.00	0.82
16	107-0719	001-07-019	45.00	1.50	0.38
17	107-0708	001-07-008	45.00	2.00	0.50
18	107-0707	001-07-007	45.00	3.00	0.75
19	107-0714	001-07-014	45.00	4.00	0.98
20	107-0709	001-07-009	50.00	1.20	0.34
21	107-0710	001-07-010	50.00	2.00	0.56
22	107-0713	001-07-013	50.00	3.00	0.83

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REGULAR PROFILES

UNEQUAL ANGLE LINE



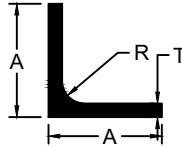
UNEQUAL ANGLES						
NO.	OLD CODE	NEW CODE	A	B	T	Kg/M
1	106-0609	001-06-009	16.00	12.00	1.00	0.08
2	106-0601	001-06-001	16.00	12.00	1.20	0.10
3	106-0602	001-06-002	25.00	16.00	1.50	0.17
4	106-0603	001-06-003	30.00	20.00	2.00	0.28
5	106-0604	001-06-004	38.00	25.00	1.50	0.27
6	106-0605	001-06-005	38.00	25.00	2.00	0.35
7	106-0606	001-06-006	45.00	38.00	1.50	0.35
8	106-0610	001-06-010	50.00	25.00	3.00	0.62
9	106-0607	001-06-007	50.00	38.00	2.00	0.49
10	106-0608	001-06-008	50.00	40.00	3.00	0.75

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REGULAR PROFILES

EQUAL ANGLE LINE WITH RADIUS



EQUAL ANGLES ROUND FILLET					
No.	OLD CODE	NEW CODE	A	T	Kg/M
1	102-0201	001-02-001	16.00	1.20	0.12
2	102-0202	001-02-002	16.00	1.50	0.14
3	102-0203	001-02-003	18.00	1.50	0.16
4	102-0204	001-02-004	18.00	2.00	0.20
5	102-0205	001-02-005	25.00	1.20	0.18
6	102-0206	001-02-006	25.00	2.00	0.28
7	102-0207	001-02-007	45.00	1.50	0.39
8	102-0208	001-02-008	45.00	2.00	0.51
9	102-0209	001-02-009	50.00	1.20	0.35
10	102-0210	001-02-010	50.00	2.00	0.57

UNEQUAL ANGLE LINE WITH RADIUS



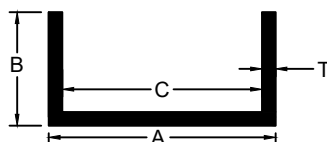
UNEQUAL ANGLES						
NO.	OLD CODE	NEW CODE	A	B	T	Kg/M
1	101-1101	001-01-001	60.00	40.00	2.00	0.57
2	101-1102	001-01-002	75.00	45.00	2.00	0.68
3	101-1103	001-01-003	75.00	45.00	3.00	1.01

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REGULAR PROFILES

C- CHANNELS



C/U CHANNELS

NEW!

NO.	OLD CODE	NEW CODE	A	B	C	T	Kg/M
	350-0143	001-04-020	9.40	9.70	6.40	1.50	0.11
2	104-0419	001-04-019	12.40	11.20	10.00	1.20	0.11
3	104-0418	001-04-018	14.40	25.00	12.00	1.20	0.22
4	104-0402	001-04-002	16.00	16.00	13.60	1.20	0.16
5	104-0401	001-04-001	16.00	16.00	12.60	1.70	0.22
6	104-0410	001-04-010	16.00	25.00	12.00	2.00	0.36
7	104-0413	001-04-013	16.00	40.00	12.00	2.00	0.53
8	104-0412	001-04-012	16.00	100.00	12.00	2.00	1.21
9	104-0403	001-04-003	18.00	18.00	15.60	1.20	0.18
10	104-0417	001-04-017	19.00	8.00	16.00	1.50	0.14
11	104-0416	001-04-016	20.00	100.00	16.00	2.00	1.23
12	104-0409	001-04-009	21.00	18.00	18.60	1.20	0.19
13	NEW!	001-04-021	20.00	26.00	17.00	1.50	0.30
14	104-0411	001-04-011	23.00	30.00	19.00	2.00	0.45
15	104-0404	001-04-004	25.00	25.00	22.60	1.20	0.25
16	104-0405	001-04-005	25.00	25.00	21.00	2.00	0.41
17	104-0407	001-04-007	28.00	25.00	25.60	1.20	0.26
18	104-0406	001-04-006	38.00	38.00	34.00	2.00	0.63
19	104-0408	001-04-008	43.00	25.00	40.60	1.20	0.31
20	104-0414	001-04-014	79.00	42.00	75.00	2.00	0.91
21	104-0415	001-04-015	104.00	42.00	100.00	2.00	1.05

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REGULAR PROFILES

ROUND BARS



SOLID SECTIONS

NO.	OLD CODE	NEW CODE	DIAMETER	Kg/M
1	113-2010	001-10-001	4.00	0.04
2	113-2011	001-10-002	6.00	0.08
3	113-2012	001-10-003	8.00	0.15
4	113-2013	001-10-004	10.00	0.23
5	113-2014	001-10-005	12.00	0.33
6	113-2016	001-10-007	15.50	0.54
7	113-2015	001-10-006	16.00	0.58
8	113-2017	001-10-008	19.00	0.81
9	113-2018	001-10-009	25.00	1.40

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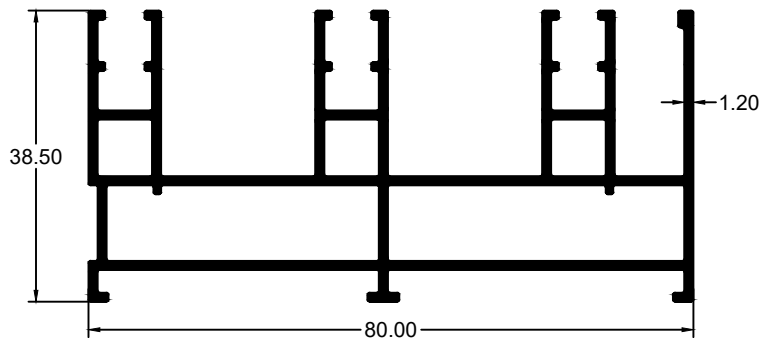


SLIDING WINDOWS AND DOORS

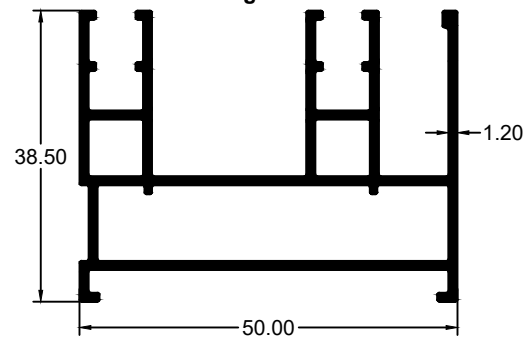


NEW! SLIDING 23MM SERIES

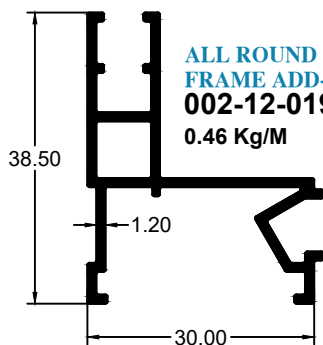
**ALL ROUND OUTER
FRAME THREE TRACK
002-12-002**
1.36 Kg/M



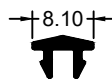
**ALL ROUND OUTER
FRAME TWO TRACK
002-12-001**
0.91 Kg/M



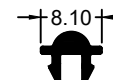
**ALL ROUND OUTER
FRAME ADD-ON TRACK
002-12-019**
0.46 Kg/M



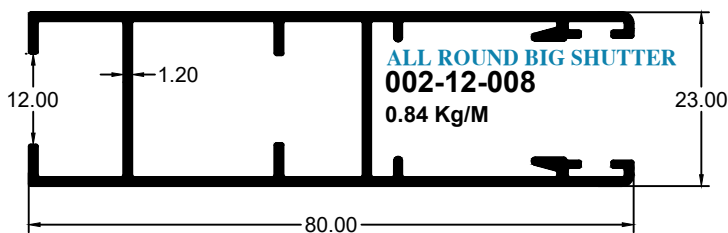
**OUTER FRAME V-TRACK
RAIL CLIP
002-12-003**
0.06 Kg/M



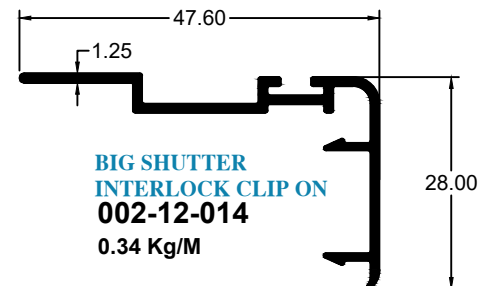
**OUTER FRAME U-TRACK
RAIL CLIP
002-12-004**
0.07 Kg/M



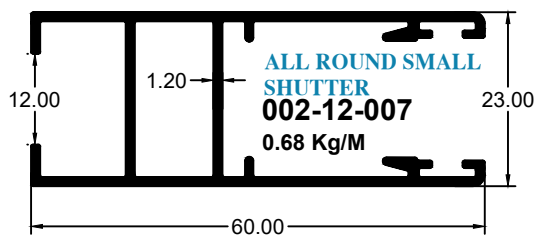
**ALL ROUND BIG SHUTTER
002-12-008**
0.84 Kg/M



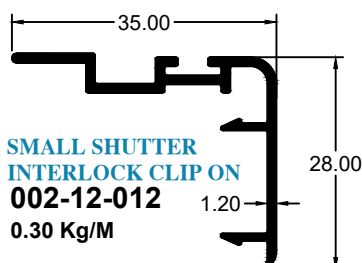
**BIG SHUTTER
INTERLOCK CLIP ON
002-12-014**
0.34 Kg/M



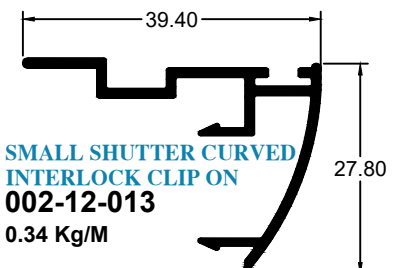
**ALL ROUND SMALL
SHUTTER
002-12-007**
0.68 Kg/M



**SMALL SHUTTER
INTERLOCK CLIP ON
002-12-012**
0.30 Kg/M



**SMALL SHUTTER CURVED
INTERLOCK CLIP ON
002-12-013**
0.34 Kg/M

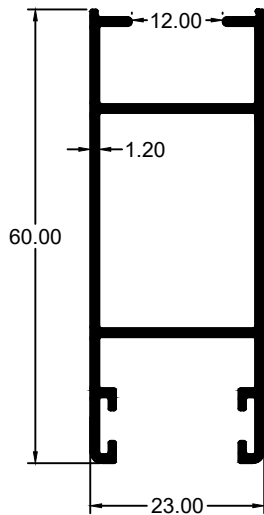


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2. The weight shared is for Mill finish
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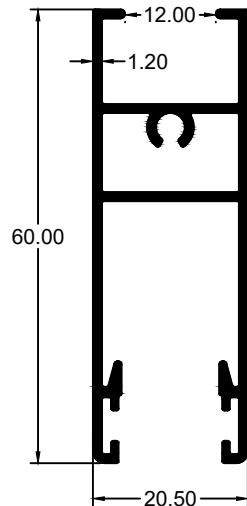


NEW! SLIDING 23MM SERIES

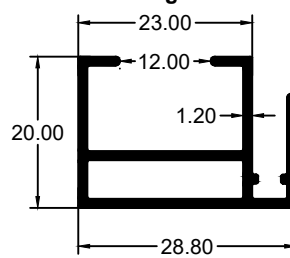
LOCK SHUTTER
002-12-005
0.63 Kg/M



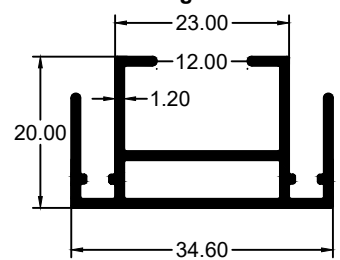
TOP/BOTTOM SHUTTER
002-12-006
0.67 Kg/M



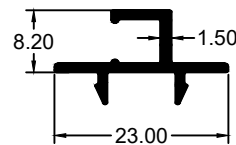
SLIM INTERLOCK SHUTTER
002-12-010
0.38 Kg/M



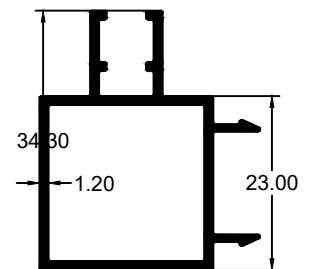
SLIM DOUBLE INTERLOCK SHUTTER
002-12-011
0.45 Kg/M



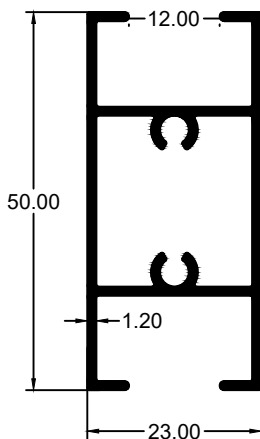
MOSQUITO NET CLIP ON
002-12-015
0.16 Kg/M



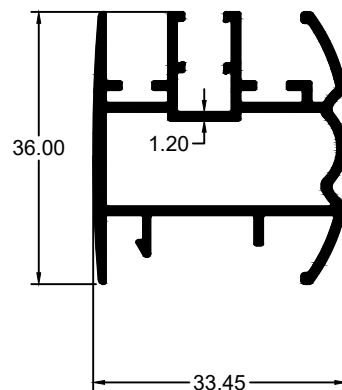
CORNER SHUTTER
002-12-018
0.43 Kg/M



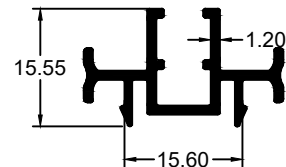
TRANSOM
002-12-009
0.61 Kg/M



ADD ON FOR MEETING PANELS
002-12-017
0.67 Kg/M



ADD ON FOR MEETING PANELS
002-12-016
0.27 Kg/M



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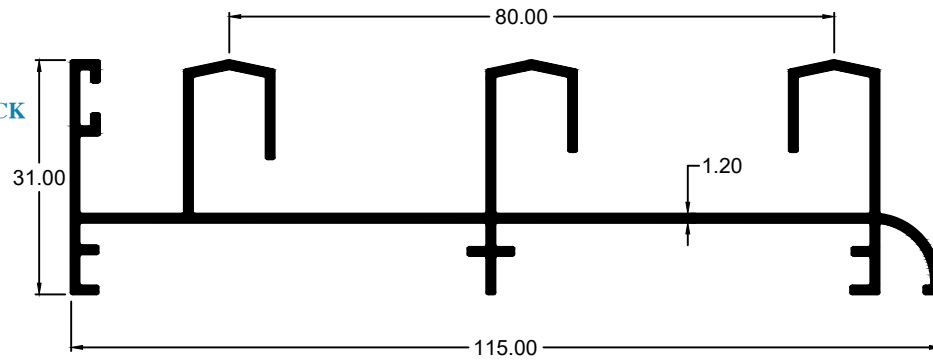
SLIDING EURO SERIES

ALL ROUND OUTER FRAME THREE TRACK

002-02-001

(258-6002)

1.08 Kg/M

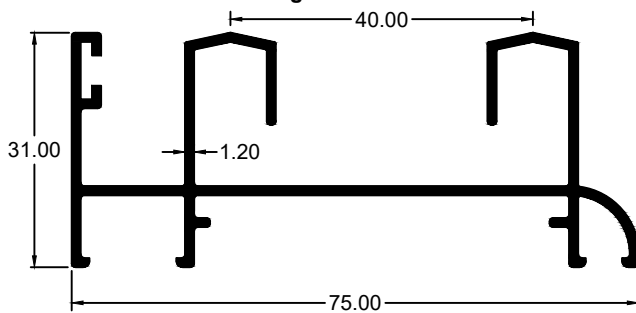


ALL ROUND OUTER FRAME TWO TRACK WITH WOOL PILE

002-02-002

(258-6011)

0.78 Kg/M

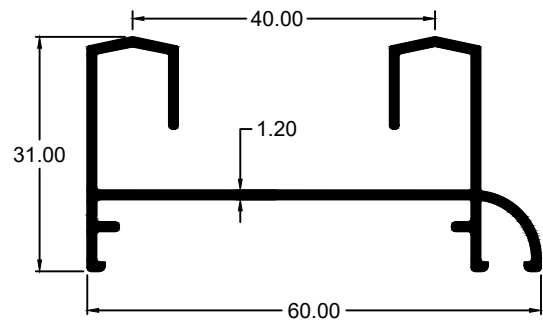


ALL ROUND OUTER FRAME TWO TRACK PLAIN

002-02-003

(258-6012)

0.60 Kg/M

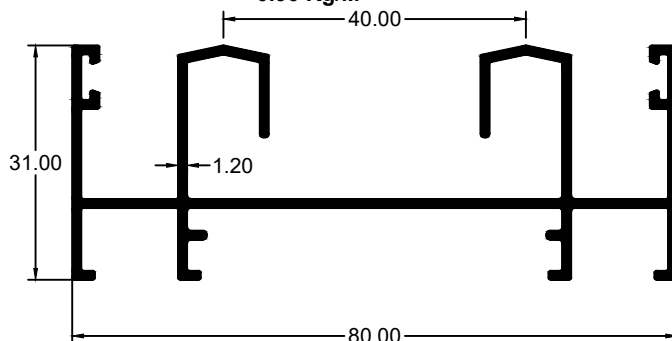


ALL ROUND OUTER FRAME TWO TRACK WITH DOUBLE WOOL PILE

002-02-005

(258-6018)

0.90 Kg/M

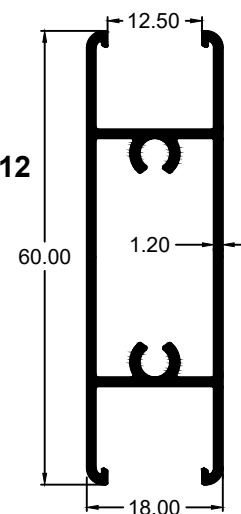


TRANSOM

002-02-012

(258-6007)

0.61 Kg/M



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2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
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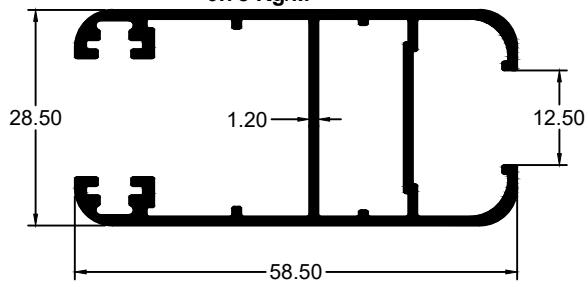
SLIDING EURO SERIES

SMALL SHUTTER

002-02-007

(258-6005)

0.78 Kg/M

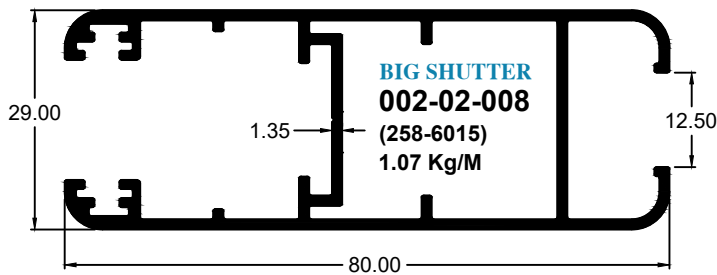
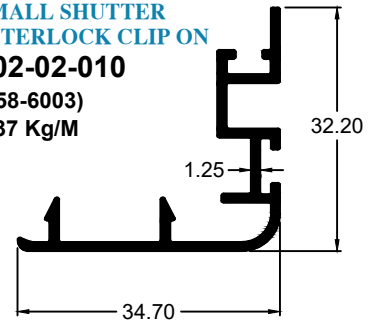


SMALL SHUTTER INTERLOCK CLIP ON

002-02-010

(258-6003)

0.37 Kg/M



BIG SHUTTER

002-02-008

(258-6015)

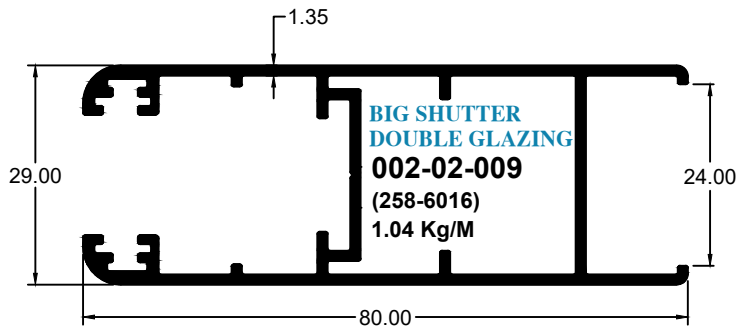
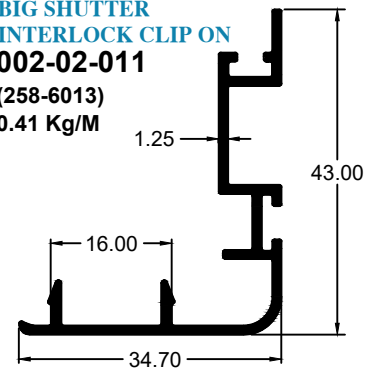
1.07 Kg/M

BIG SHUTTER INTERLOCK CLIP ON

002-02-011

(258-6013)

0.41 Kg/M



BIG SHUTTER DOUBLE GLAZING

002-02-009

(258-6016)

1.04 Kg/M

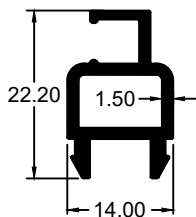
MOSQUITO NET

CLIP ON

002-02-013

(258-6008)

0.29 Kg/M

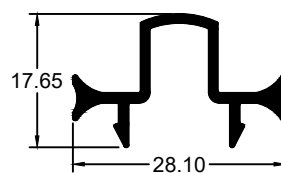


ADD ON FOR MEETING PANELS

002-02-014

(258-6010)

0.25 Kg/M



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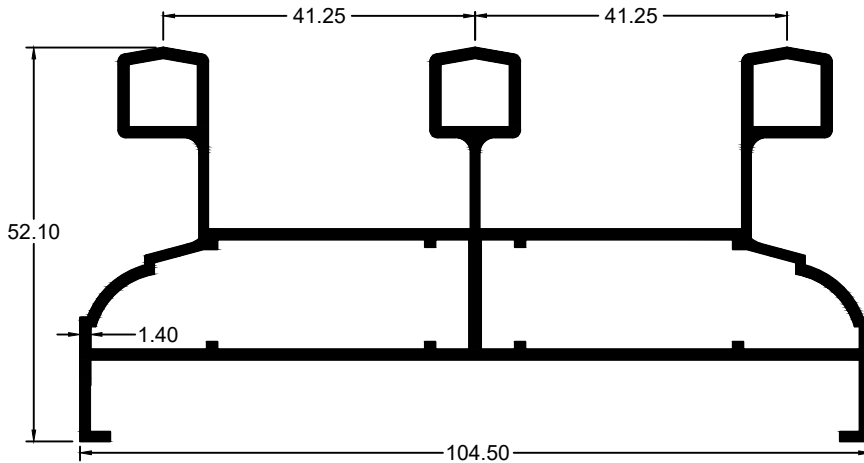
SLIDING 65 SERIES

ALL ROUND OUTER FRAME THREE TRACK

002-03-001

(215-0656)

1.71 Kg/M

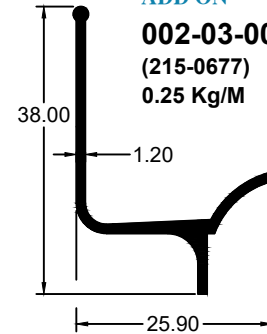


MOSQUITO TRACK ADD ON

002-03-004

(215-0677)

0.25 Kg/M

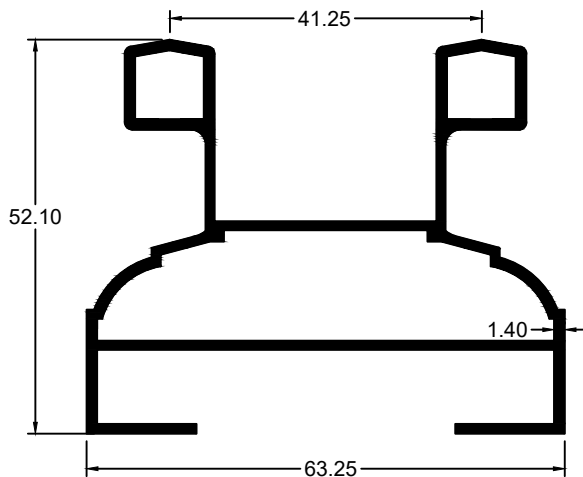


ALL ROUND OUTER FRAME TWO TRACK

002-03-003

(215-0621)

1.11 Kg/M

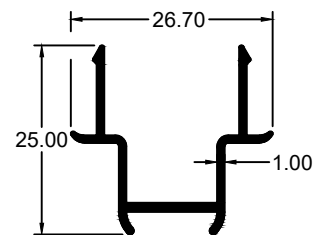


ADD ON FOR MEETING PANELS

002-03-014

(215-0678)

0.22 Kg/M

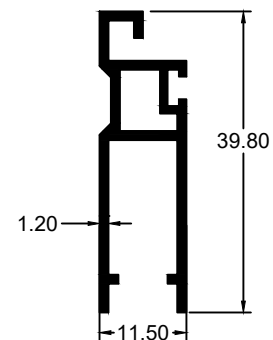


MOSQUITO SHUTTER

002-03-015

(215-0679)

0.36 Kg/M



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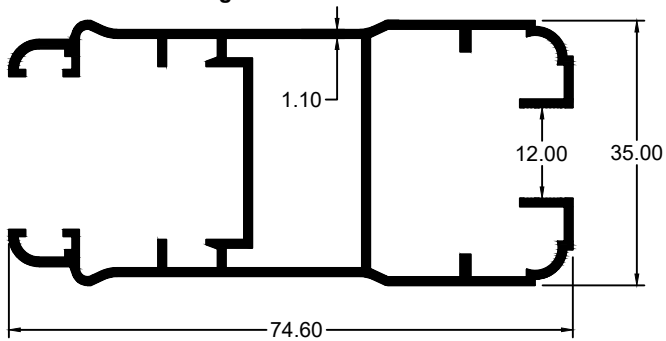
SLIDING 65 SERIES

ALL ROUND SHUTTER

002-03-005

(215-0674)

0.90 Kg/M

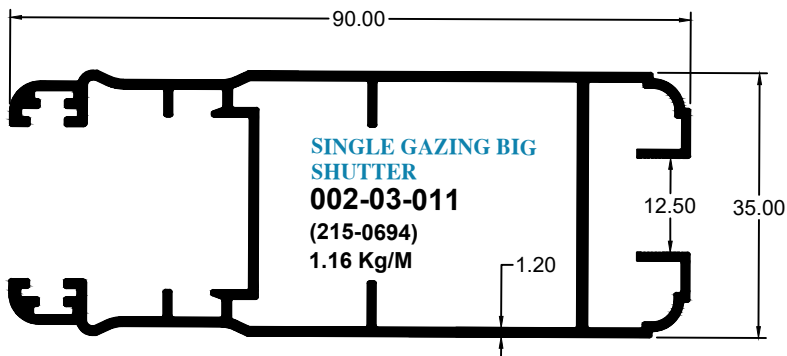
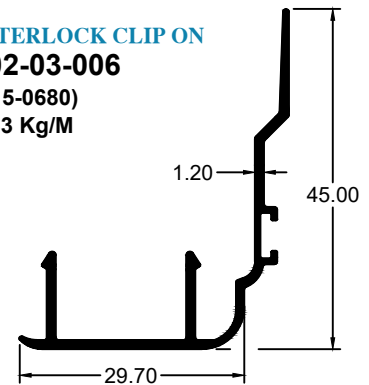


INTERLOCK CLIP ON

002-03-006

(215-0680)

0.33 Kg/M



SINGLE GAZING BIG SHUTTER

002-03-011

(215-0694)

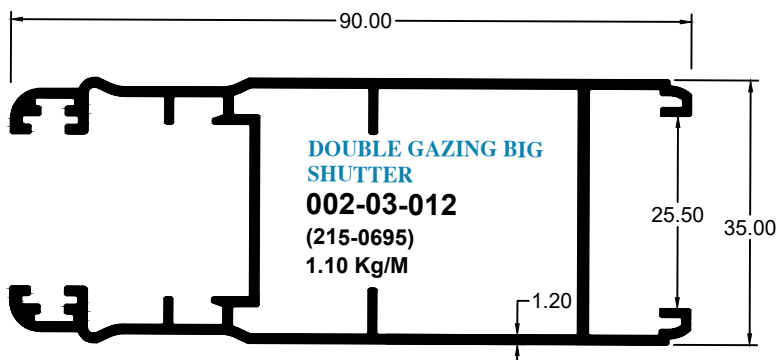
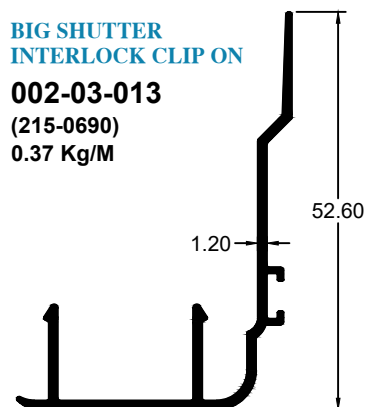
1.16 Kg/M

BIG SHUTTER INTERLOCK CLIP ON

002-03-013

(215-0690)

0.37 Kg/M



DOUBLE GAZING BIG SHUTTER

002-03-012

(215-0695)

1.10 Kg/M

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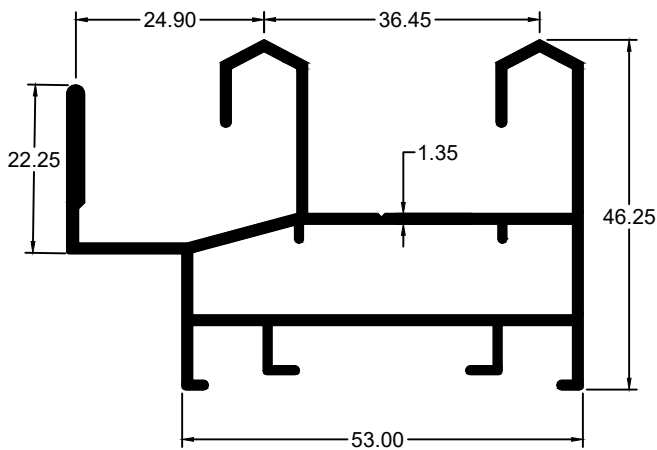
SLIDING 84 SERIES

ALL ROUND OUTER FRAME TWO TRACK

002-04-001

(258-8401)

1.12 Kg/M

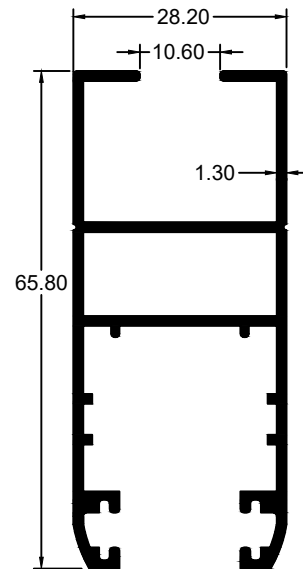


ALL ROUND SHUTTER

002-04-003

(258-8412)

0.86 Kg/M

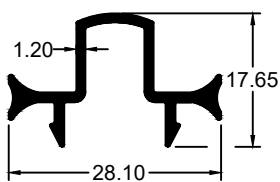


ADD ON FOR MEETING PANELS

002-02-014

(258-6010)

0.25 Kg/M

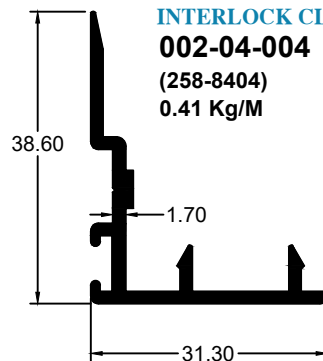


INTERLOCK CLIP ON

002-04-004

(258-8404)

0.41 Kg/M

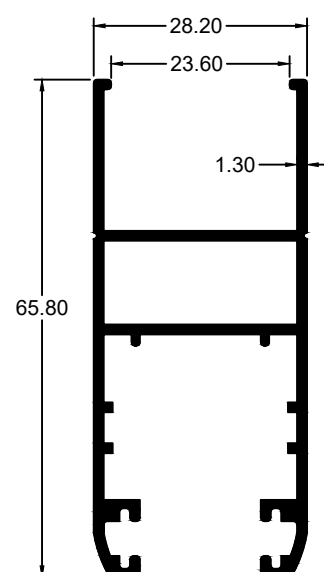


ALL ROUND SHUTTER DOUBLE GLAZING

002-04-002

(258-8402)

0.81 Kg/M

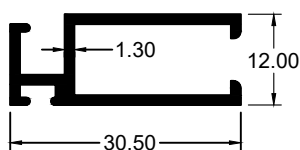


MOSQUITO SHUTTER

002-04-005

(258-8403)

0.30 Kg/M



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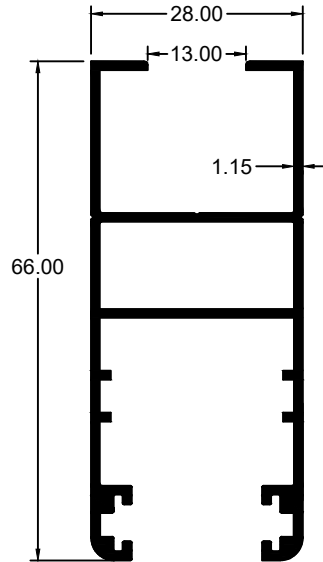
SLIDING 84 SERIES

ALL ROUND SHUTTER

002-04-006

(345-0115)

0.77 Kg/M

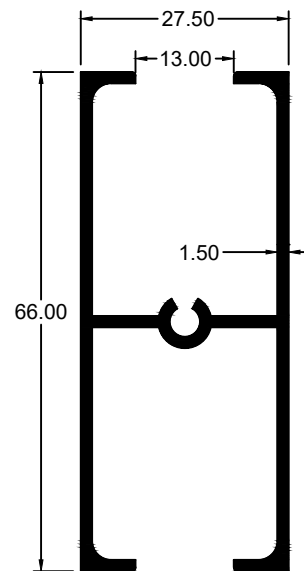


TRANSOM

002-04-008

(345-0125)

0.81 Kg/M

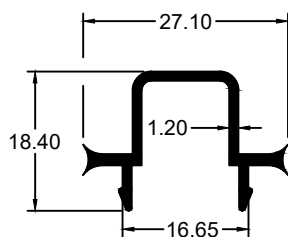


ADD ON FOR MEETING PANELS

002-04-009

(345-0130)

0.22 Kg/M

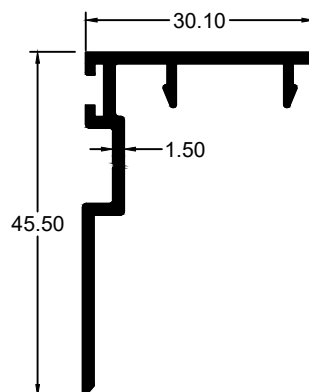


INTERLOCK CLIP ON

002-04-007

(345-0120)

0.40 Kg/M

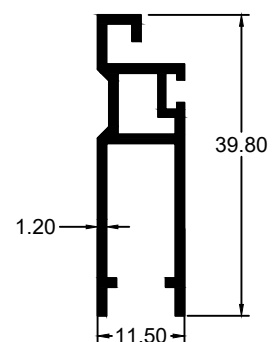


MOSQUITO SHUTTER

002-03-015

(215-0679)

0.36 Kg/M



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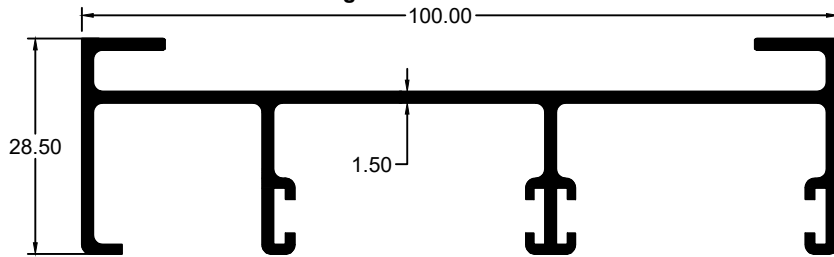
SLIDING 100 SERIES

HEADER/ SIDE TRACK

002-05-001

(254-1104)

1.04 Kg/M

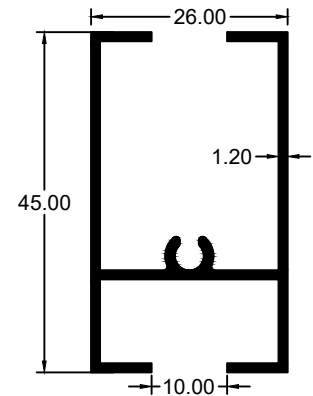


TOP SHUTTER

002-05-004

(254-1071)

0.52 Kg/M

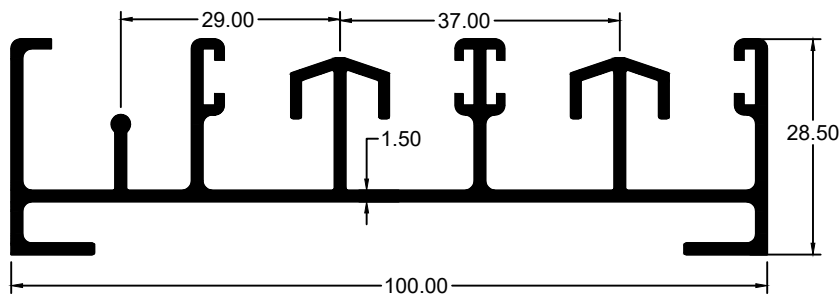


BOTTOM TWO TRACK WITH MOSQUITO TRACK

002-05-002

(254-1103)

1.40 Kg/M

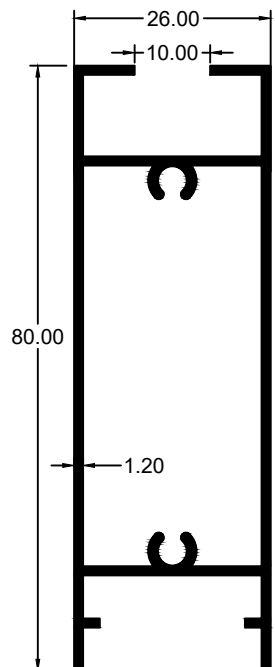


BOTTOM SHUTTER

002-05-005

(254-1070)

0.84 Kg/M

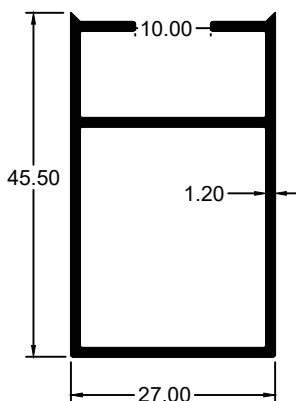


LOCK SHUTTER

002-05-003

(254-1008)

0.53 Kg/M

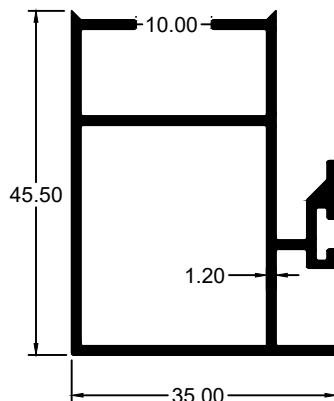


INTERLOCK

002-05-006

(254-1069)

0.65 Kg/M

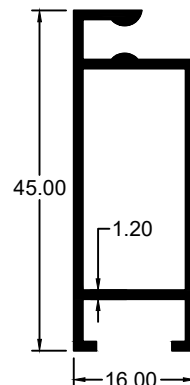


MOSQUITO SHUTTER

002-05-007

(254-1067)

0.43 Kg/M



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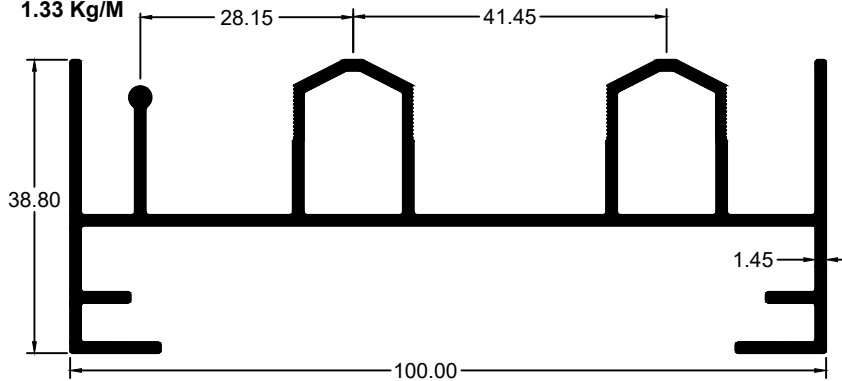
SLIDING RWD 100 SERIES

OUTER FRAME (100mm)

002-06-001

(338-0611)

1.33 Kg/M

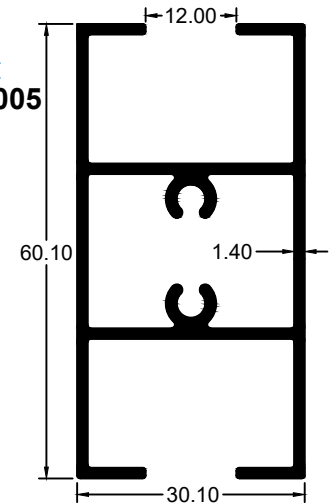


TRANSOM

002-06-005

(338-0125)

0.94 Kg/M

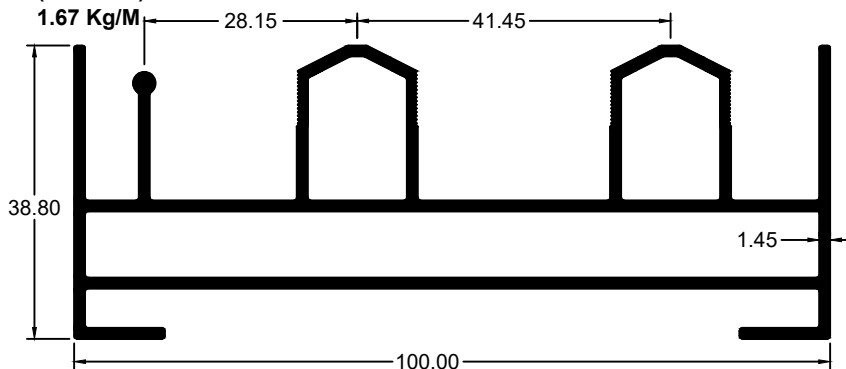


OUTER FRAME (100mm)

002-06-002

(338-0613)

1.67 Kg/M

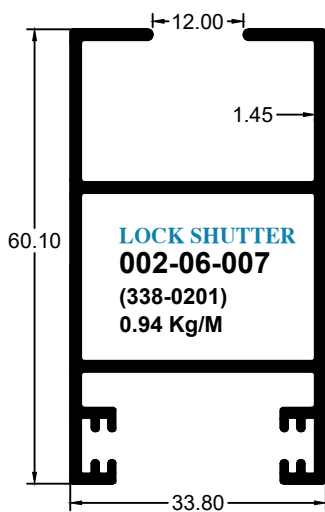
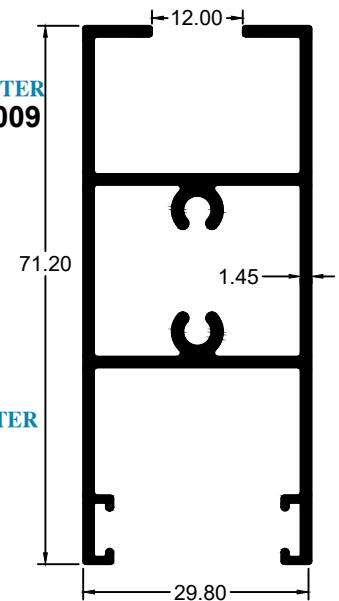


BOTTOM / TOP SHUTTER

002-06-009

(338-0203)

1.04 Kg/M

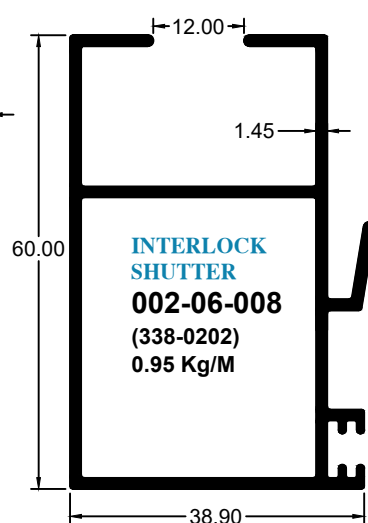


LOCK SHUTTER

002-06-007

(338-0201)

0.94 Kg/M



INTERLOCK SHUTTER

002-06-008

(338-0202)

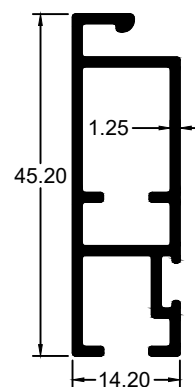
0.95 Kg/M

MOSQUITO SHUTTER

002-06-010

(338-0288)

0.47 Kg/M

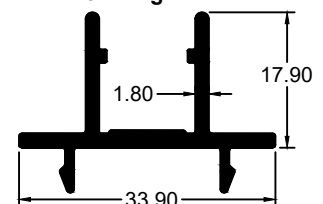


ADD ON FOR MEETING PANELS

002-06-006

(338-0172)

0.42 Kg/M



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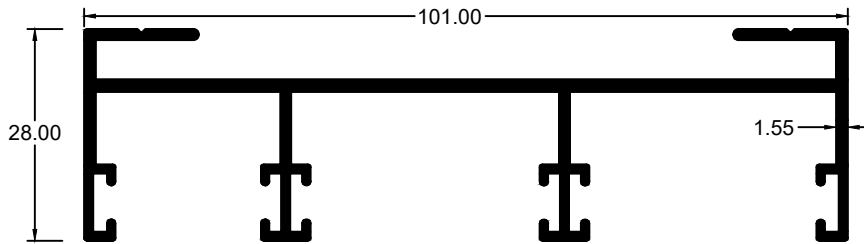
SLIDING RWD 100 SERIES

SIDE/TOP TRACK WITH MOSQUITO TRACK

002-06-003

(338-0430)

1.12 Kg/M

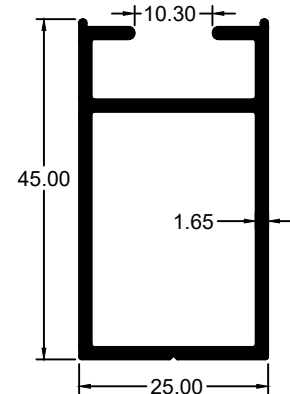


LOCK SHUTTER

002-06-011

(338-0423)

0.68 Kg/M

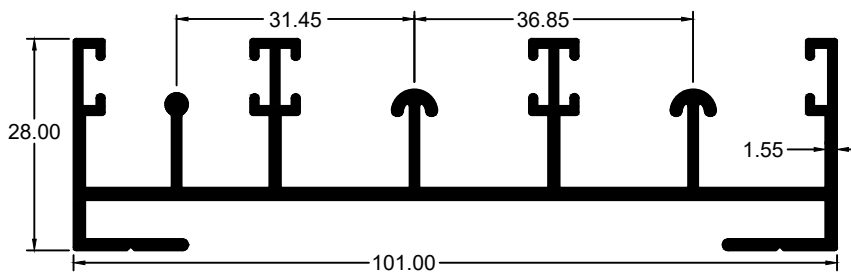


BOTTOM TRACK TWO TRACK WITH MOSQUITO

002-06-004

(338-0426)

1.33 Kg/M

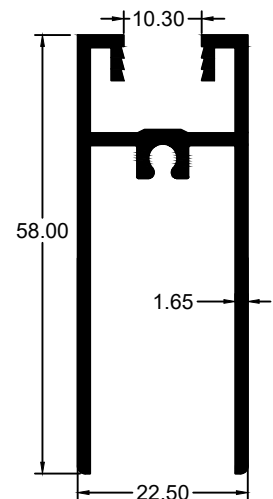


BOTTOM / TOP SHUTTER

002-06-015

(338-0441)

0.77 Kg/M

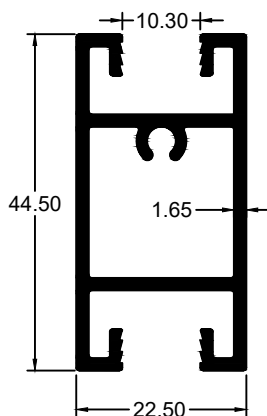


TRANSOM

002-06-012

(338-0424)

0.78 Kg/M

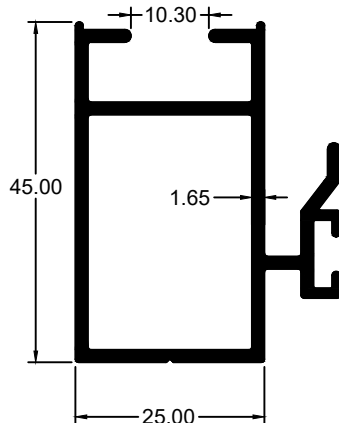


INTERLOCK SHUTTER

002-06-013

(338-0428)

0.84 Kg/M

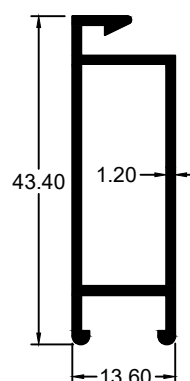


MOSQUITO SHUTTER

002-06-014

(338-0429)

0.39 Kg/M



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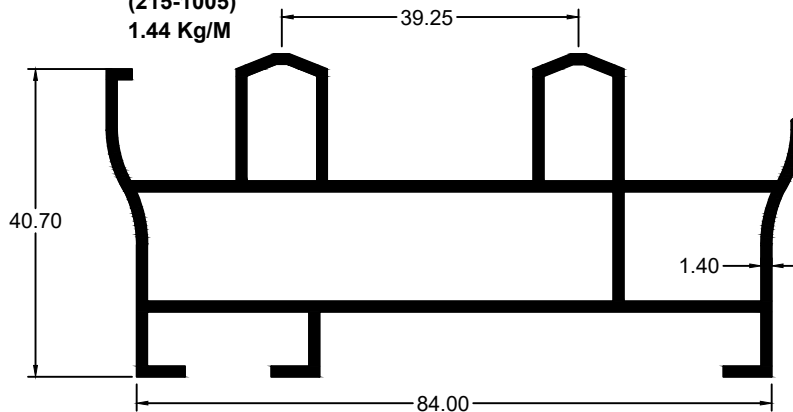
SLIDING DELUXE SERIES

ALL ROUND OUTER FRAME

002-07-001

(215-1005)

1.44 Kg/M

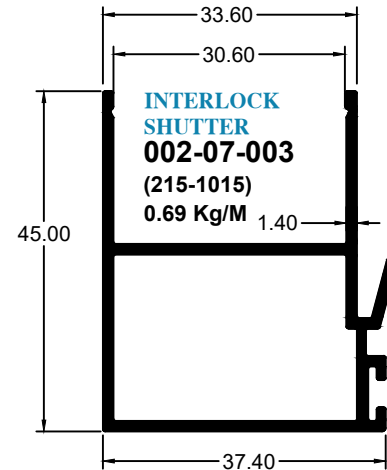


INTERLOCK SHUTTER

002-07-003

(215-1015)

0.69 Kg/M

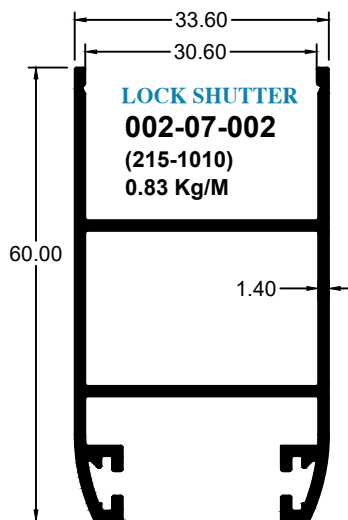


LOCK SHUTTER

002-07-002

(215-1010)

0.83 Kg/M

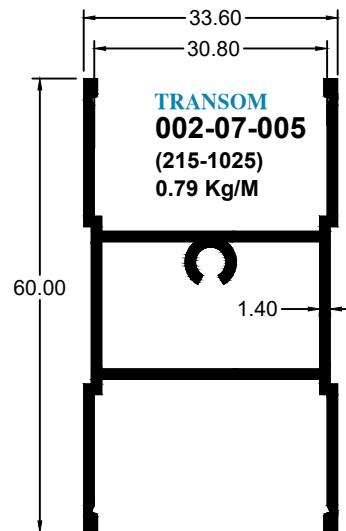


TRANSOM

002-07-005

(215-1025)

0.79 Kg/M

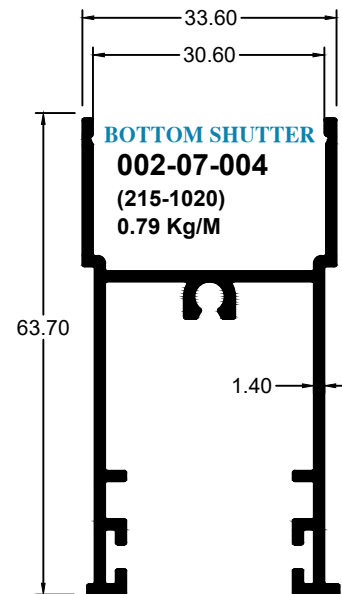


BOTTOM SHUTTER

002-07-004

(215-1020)

0.79 Kg/M

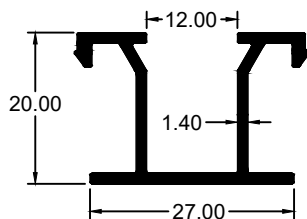


GLASS ADAPTOR

002-07-006

(215-1030)

0.36 Kg/M

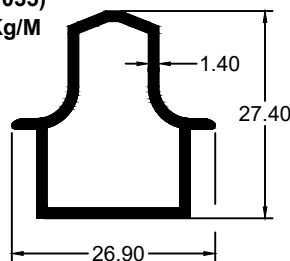


ADD ON FOR MEETING PANELS

002-07-007

(215-1035)

0.36 Kg/M

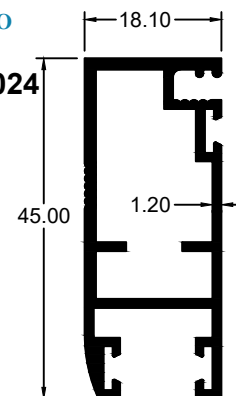


MOSQUITO SHUTTER

002-01-024

(215-0817)

0.58 Kg/M



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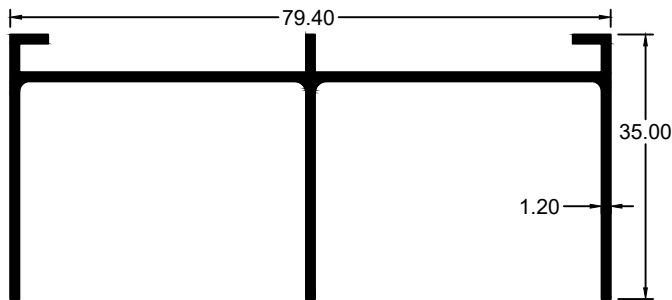
SLIDING 75 ECONOMY SERIES

HEADER

002-08-002

(215-8015)

0.65 Kg/M

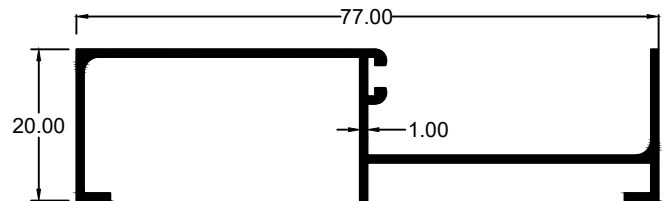


SIDE FRAME/JAMB

002-08-003

(215-8020)

0.43 Kg/M

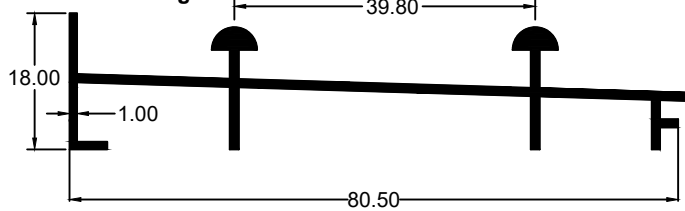


BOTTOM TRACK

002-08-001

(215-8010)

0.51 Kg/M

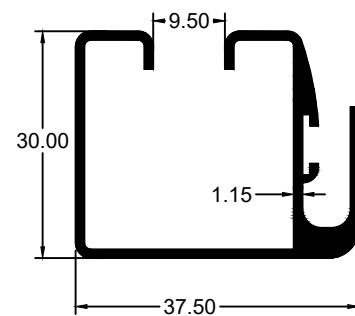


INTERLOCK

002-08-005

(215-8030)

0.54 Kg/M

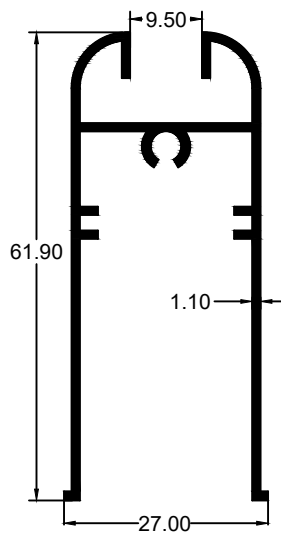


BOTTOM/ TOP SHUTTER

002-08-006

(215-8035)

0.59 Kg/M

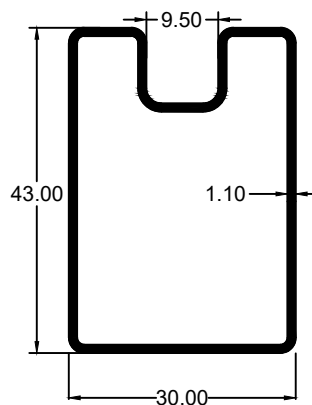


LOCK SHUTTER

002-08-004

(215-8025)

0.49 Kg/M

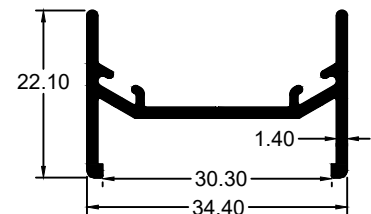


ADD ON FOR MEETING PANELS

002-08-007

(215-8050)

0.35 Kg/M

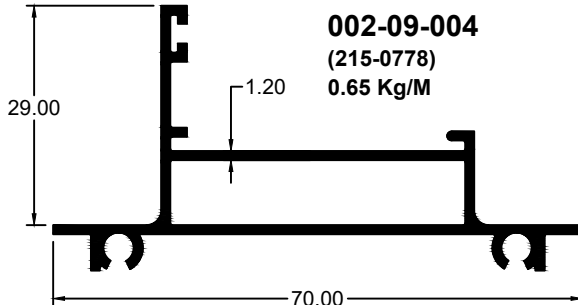


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2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
4. All rights to modify or improve the products are reserved to HAL. HAL reserves the right to make changes or modifications without prior notice.

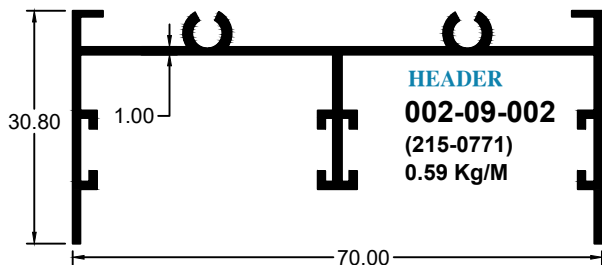
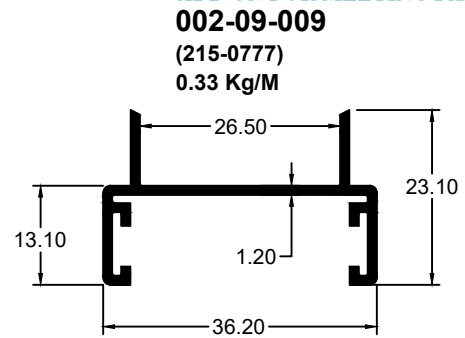


SLIDING 70 SERIES

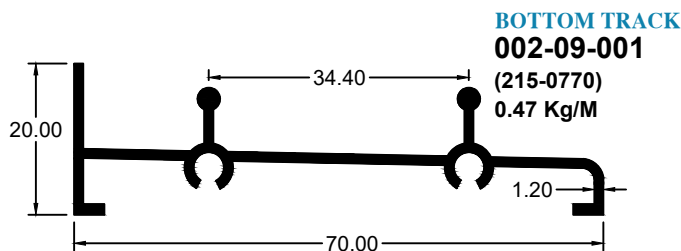
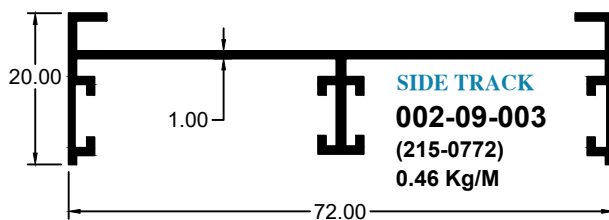
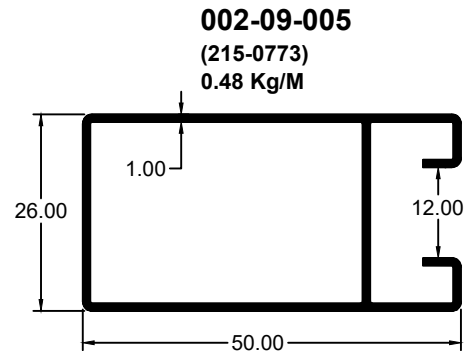
ADD ON FOR FIXED TOP



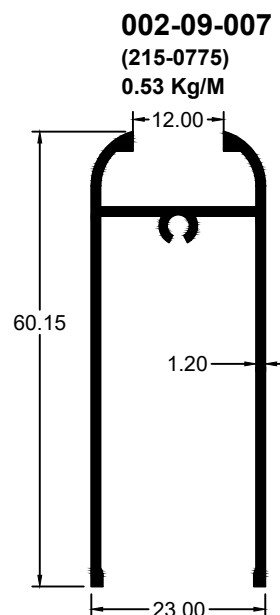
ADD ON FOR MEETING PANELS



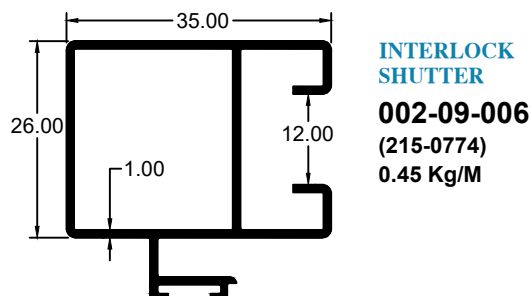
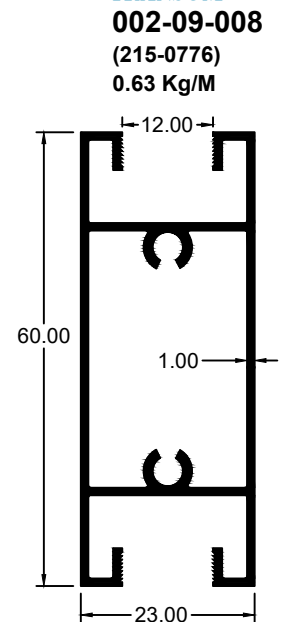
LOCK SHUTTER



BOTTOM/ TOP SHUTTER



TRANSOM



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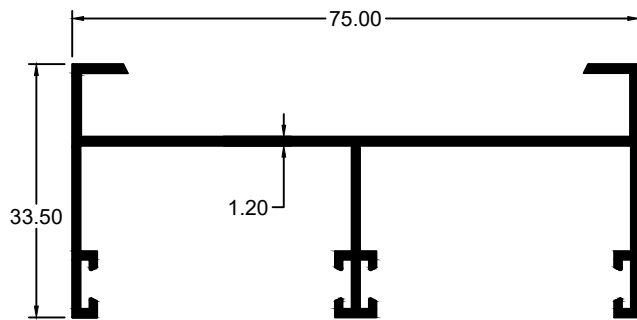
SLIDING NYL 75 SERIES

HEADER/ SIDE TRACK

002-10-002

(343-0397)

0.66 Kg/M

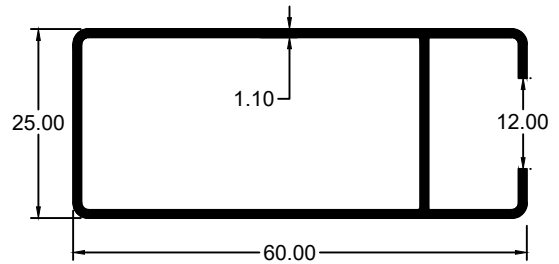


LOCK SHUTTER

002-10-003

(343-0350)

0.55 Kg/M

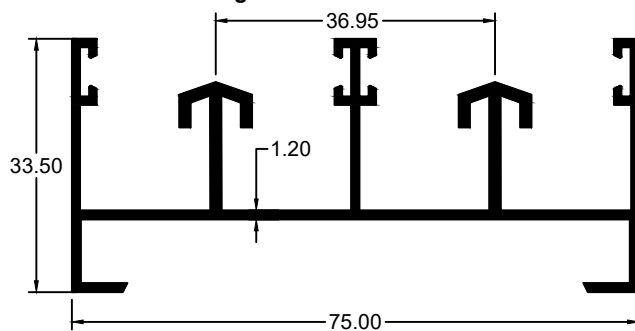


BOTTOM TRACK

002-10-001

(343-0396)

0.93 Kg/M

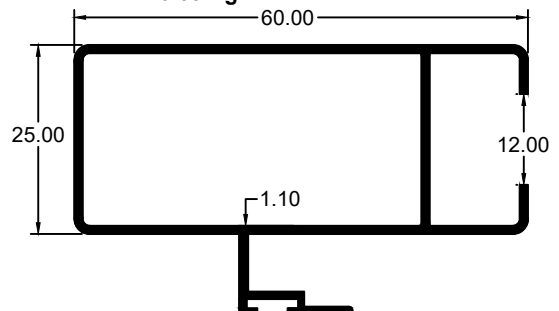


INTERLOCK

002-10-005

(343-0355)

0.63 Kg/M

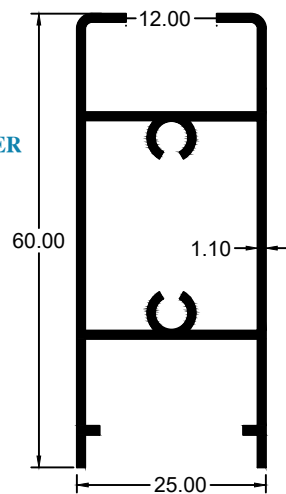


BOTTOM SHUTTER

002-10-004

(343-0360)

0.63 Kg/M

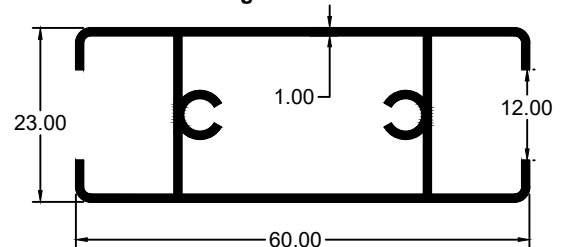


TRANSOM

002-10-006

(343-0411)

0.58 Kg/M



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2. The weight shared is for Mill finish
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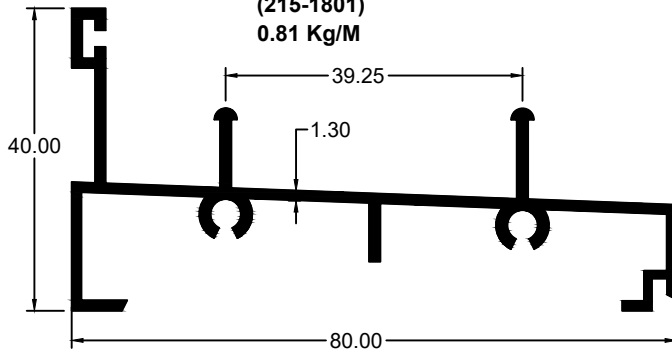
SLIDING 80 SERIES

BOTTOM TRACK

002-01-001

(215-1801)

0.81 Kg/M

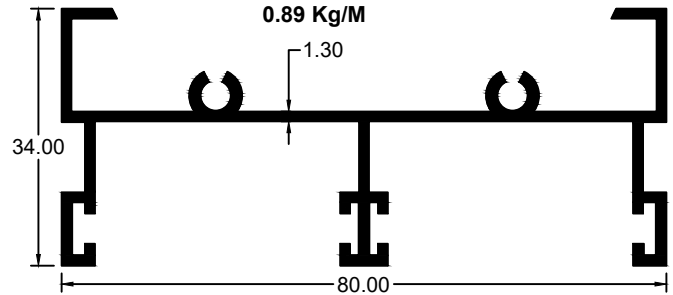


HEADER/ SIDE TRACK

002-01-002

(215-1802)

0.89 Kg/M

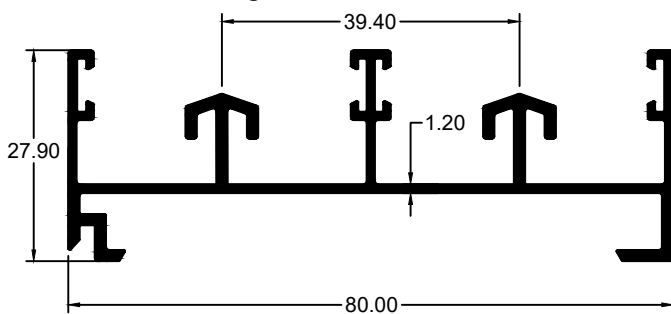


BOTTOM TRACK

002-01-003

(215-0813)

0.89 Kg/M

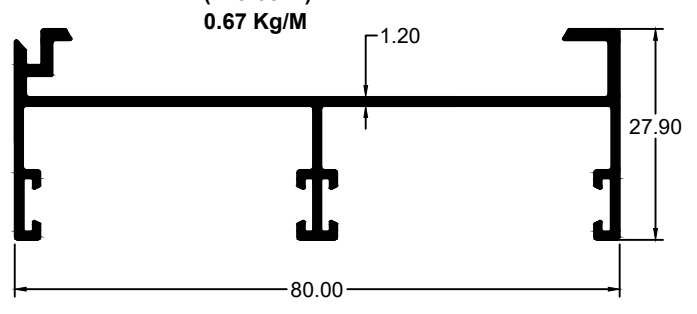


HEADER/ SIDE TRACK

002-01-004

(215-0814)

0.67 Kg/M

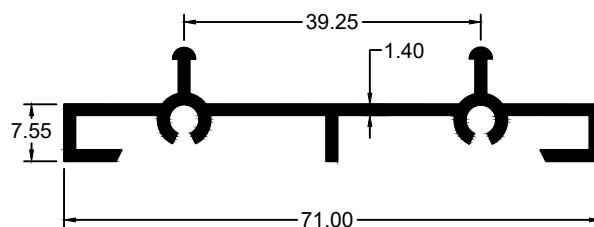


BOTTOM TRACK

002-01-005

(215-0809)

0.56 Kg/M



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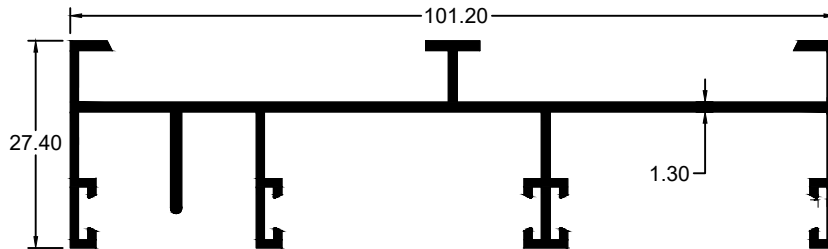
SLIDING 80 SERIES

HEADER/ SIDE TRACK

002-01-006

(215-0820)

0.91 Kg/M

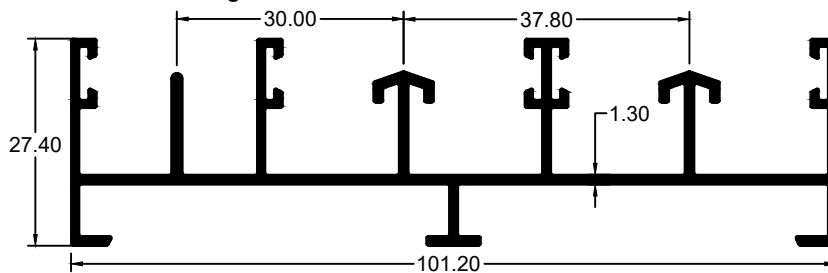


BOTTOM TRACK 2 TRACK WITH MOSQUITO

002-01-007

(215-0819)

1.09 Kg/M

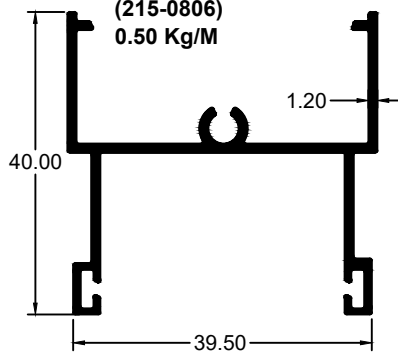


HEADER/ SIDE TRACK

002-01-008

(215-0806)

0.50 Kg/M

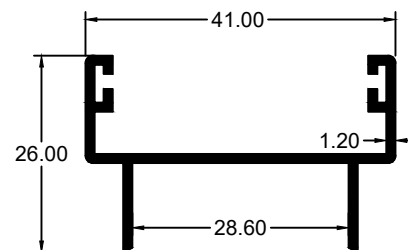


ADD ON FOR MEETING PANELS

002-01-032

(227-1103)

0.36 Kg/M



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2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
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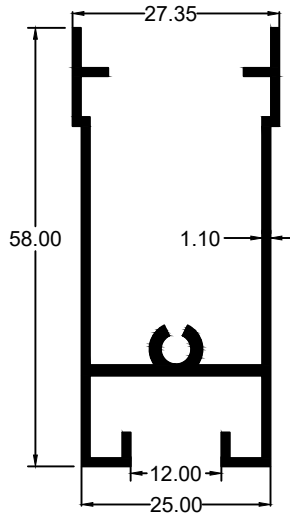
SLIDING 80 SERIES

TOP SHUTTER

002-01-022

(215-0804)

0.59 Kg/M

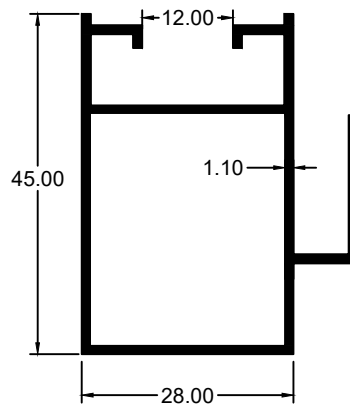


INTERLOCK

002-01-026

(215-1804)

0.60 Kg/M

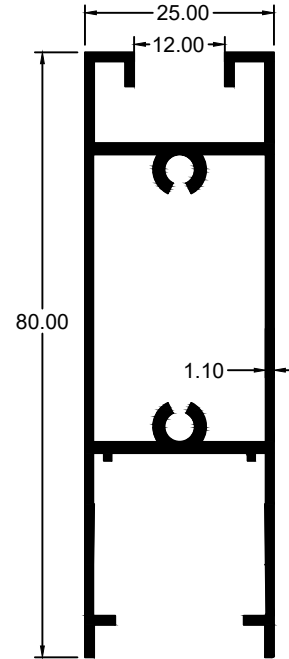


BOTTOM SHUTTER

002-01-023

(215-0815)

0.88 Kg/M

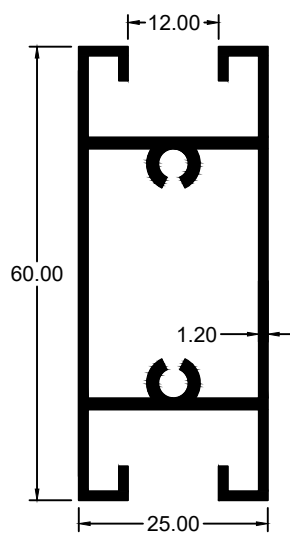


TRANSOM

002-01-020

(215-0801)

0.81 Kg/M

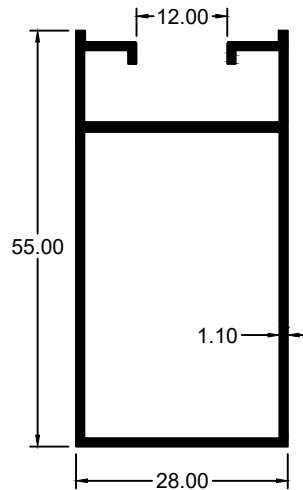


LOCK SHUTTER

002-01-025

(215-1803)

0.58 Kg/M

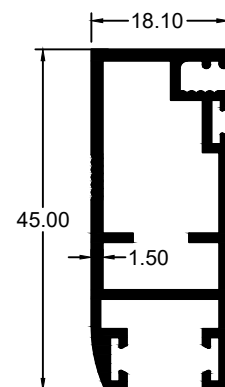


MOSQUITO SHUTTER

002-01-024

(215-0817)

0.58 Kg/M

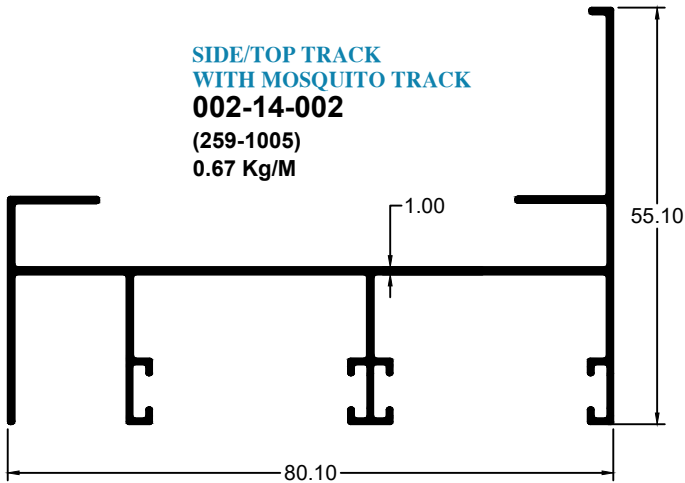


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2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
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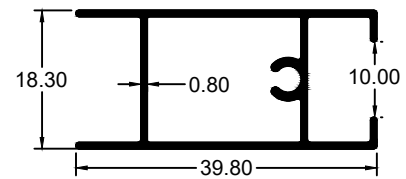


SLIDING HYD SERIES

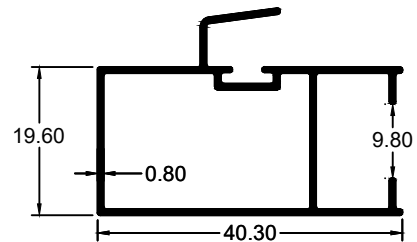
**SIDE/TOP TRACK
WITH MOSQUITO TRACK**
002-14-002
(259-1005)
0.67 Kg/M



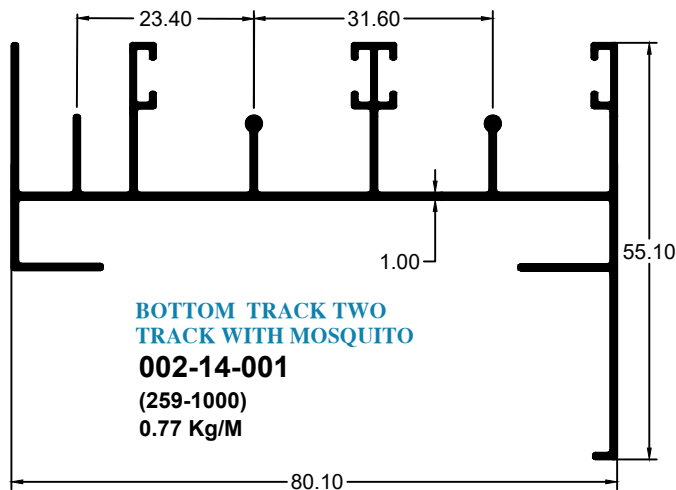
BOTTOM/ TOP SHUTTER
002-14-005
(259-1020)
0.31 Kg/M



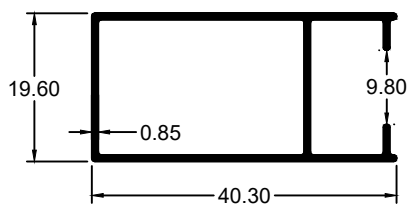
INTERLOCK SHUTTER
002-14-004
(259-1015)
0.34 Kg/M



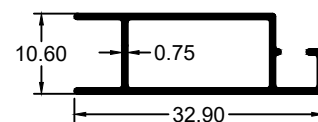
**BOTTOM TRACK TWO
TRACK WITH MOSQUITO**
002-14-001
(259-1000)
0.77 Kg/M



LOCK SHUTTER
002-14-003
(259-1010)
0.31 Kg/M



MOSQUITO SHUTTER
002-14-006
(259-1025)
0.19 Kg/M



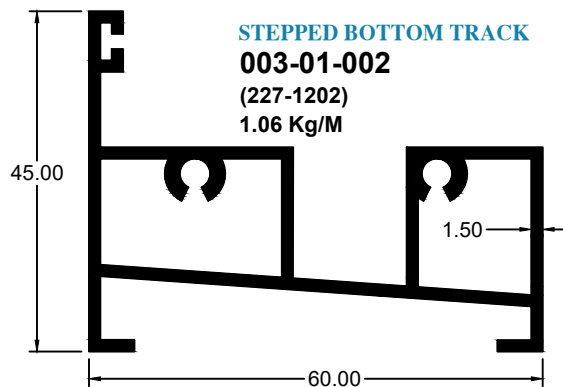
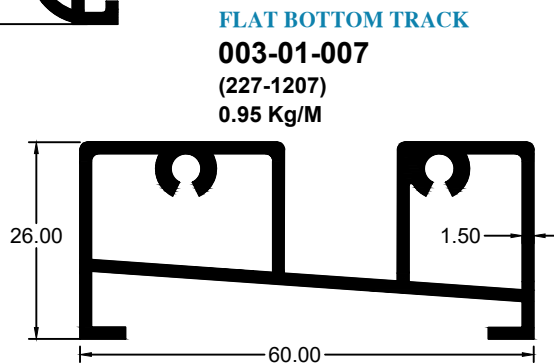
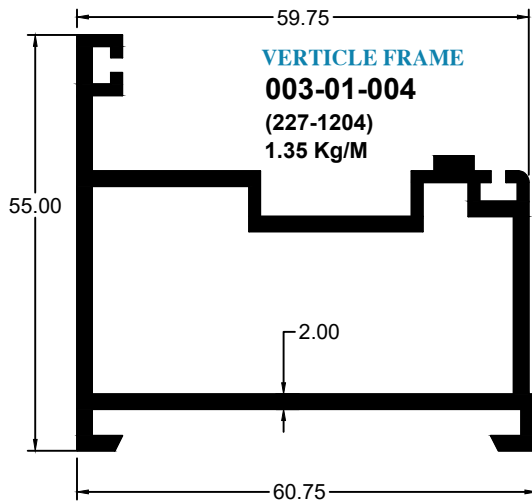
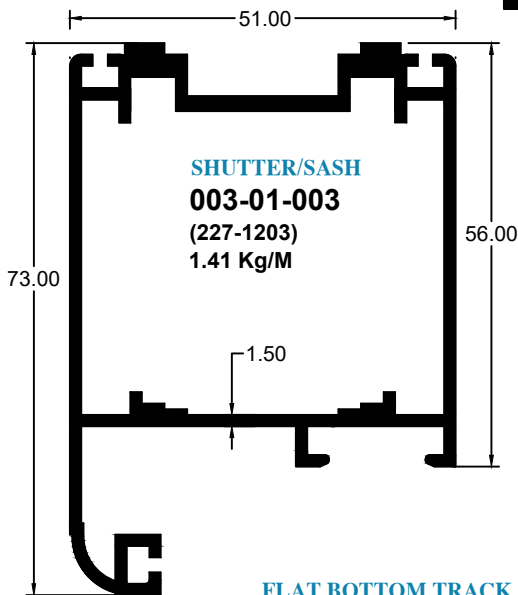
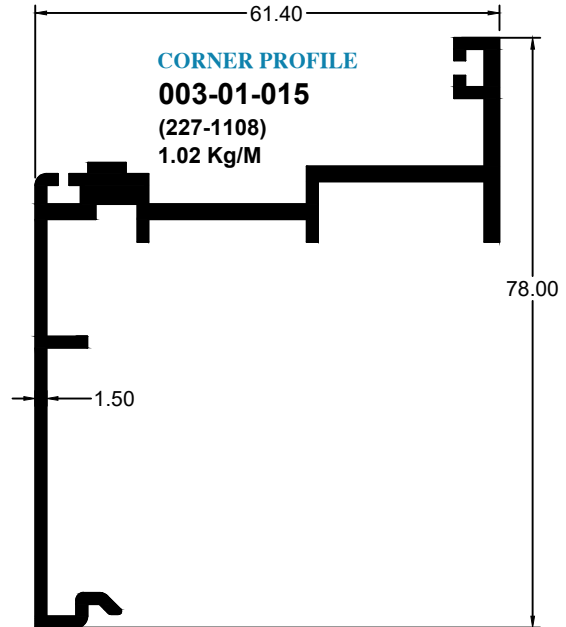
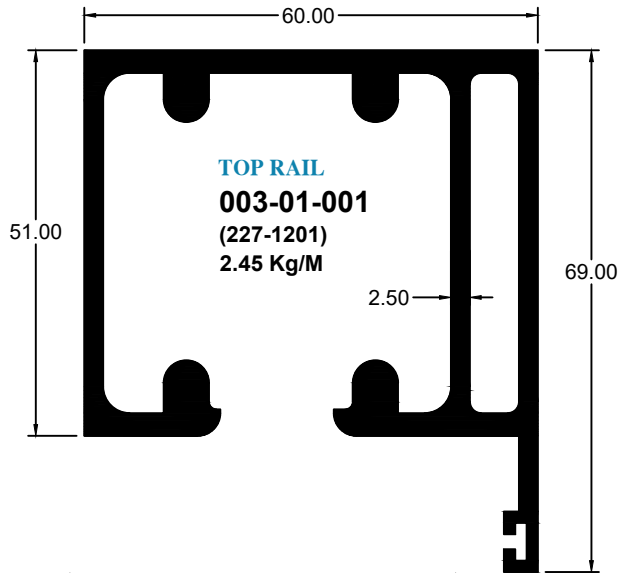
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BY-FOLDING LAPPED DOORS



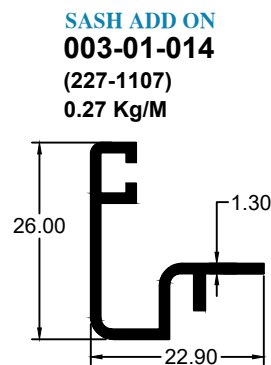
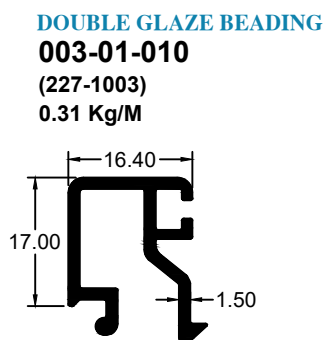
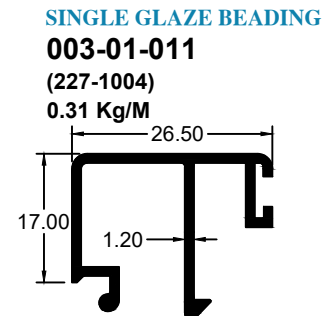
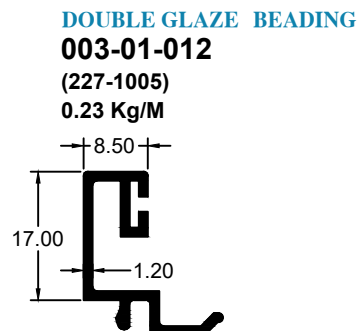
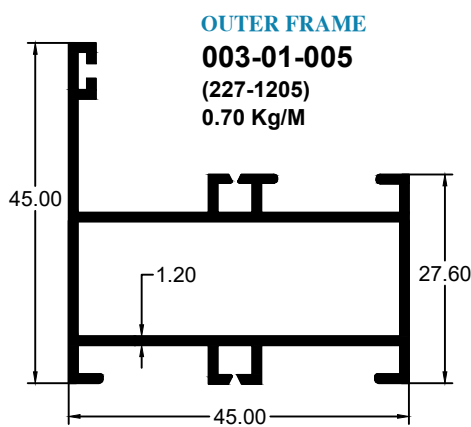
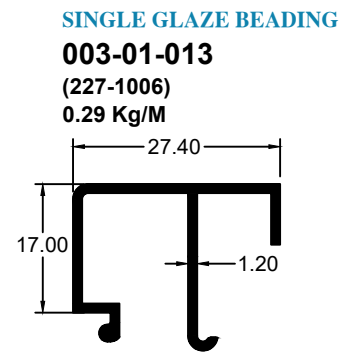
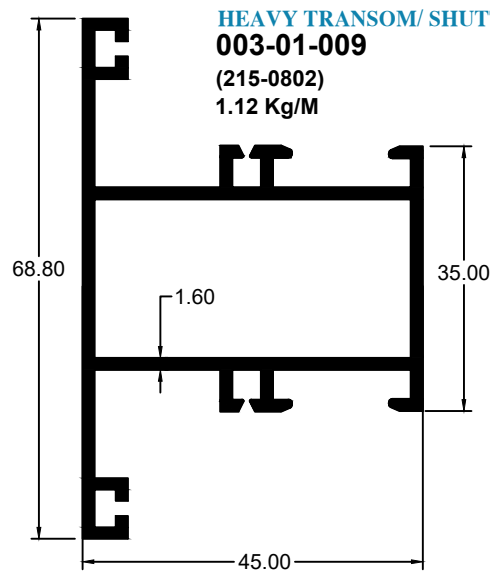
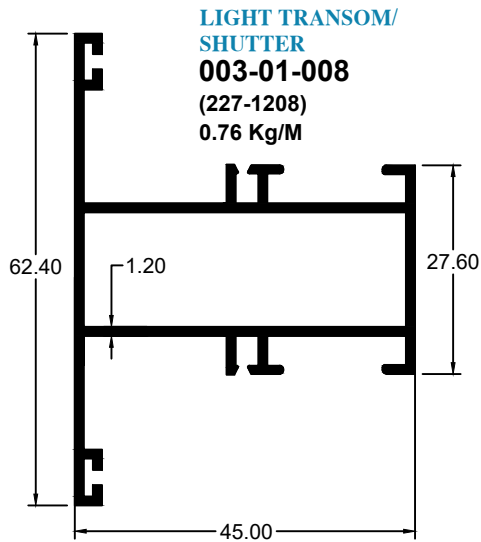
SLIDING FOLDING AND LAPPED DOOR SERIES



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3. When powder coated there will be a slight variance in weight.
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SLIDING FOLDING AND LAPPED DOOR SERIES



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2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
4. All rights to modify or improve the products are reserved to HAL. HAL reserves the right to make changes or modifications without prior notice.

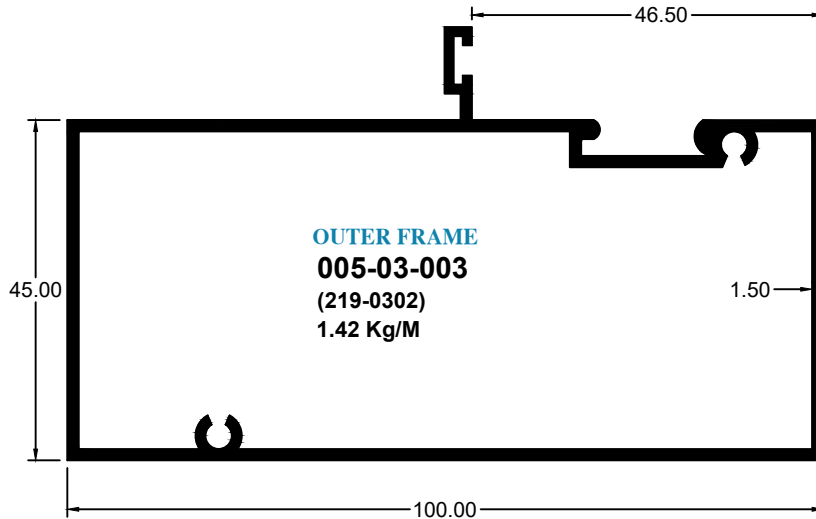


HUNG DOORS

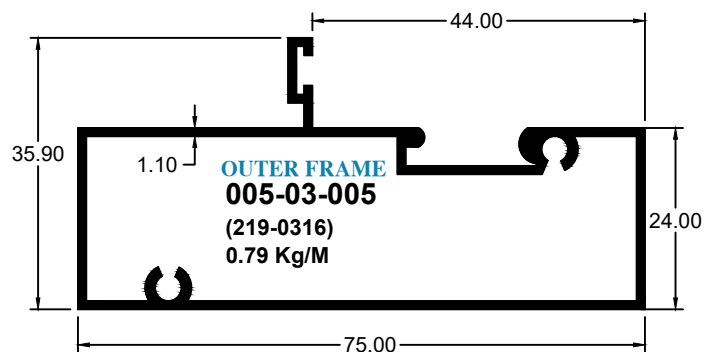
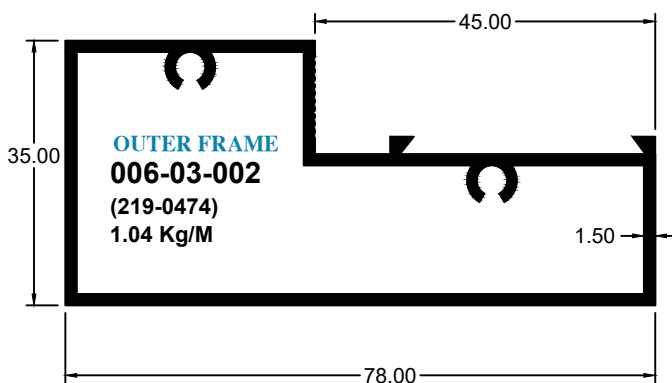
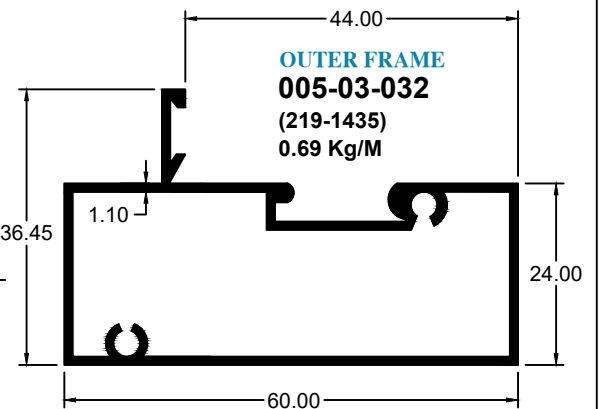
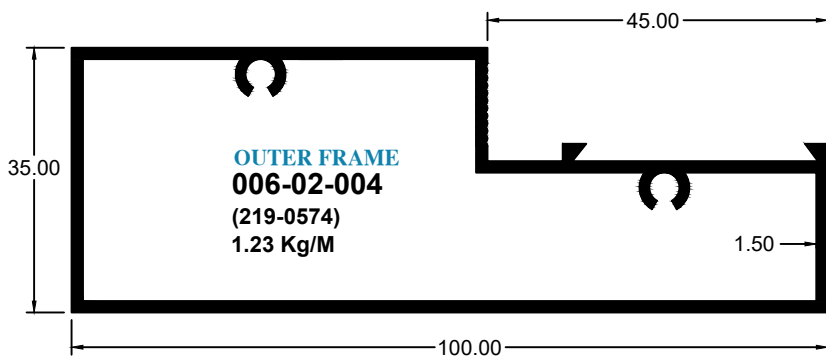
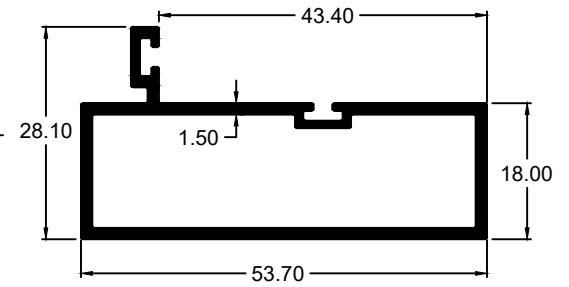
1. All dimensions are in mm
2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
4. All rights to modify or improve the products are reserved to HAL. HAL reserves the right to make changes or modifications without prior notice.



DOOR FRAMES



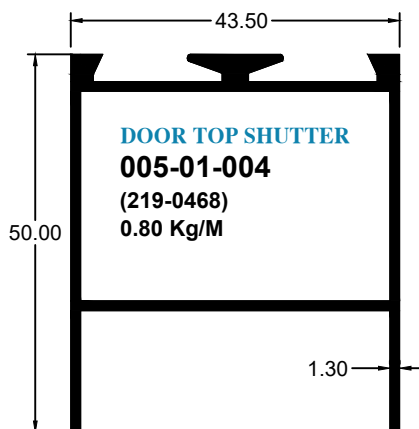
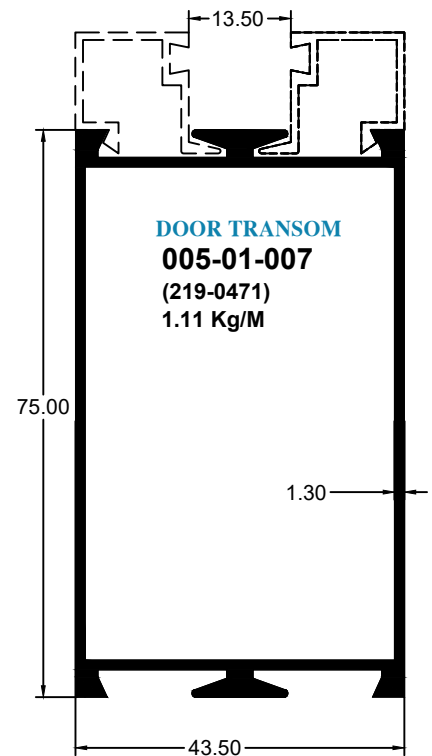
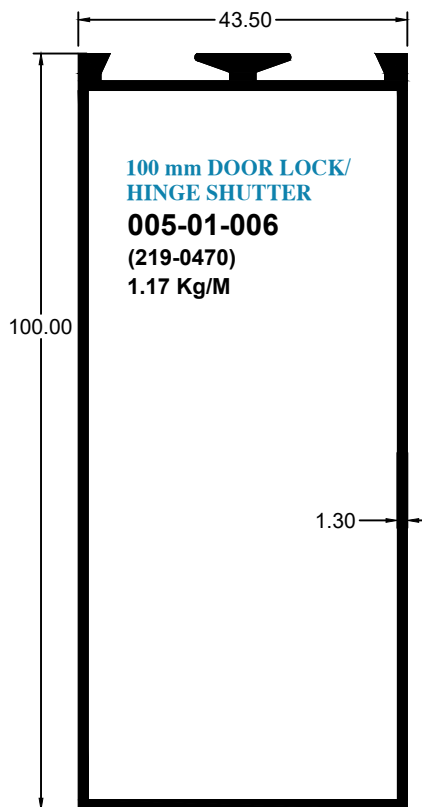
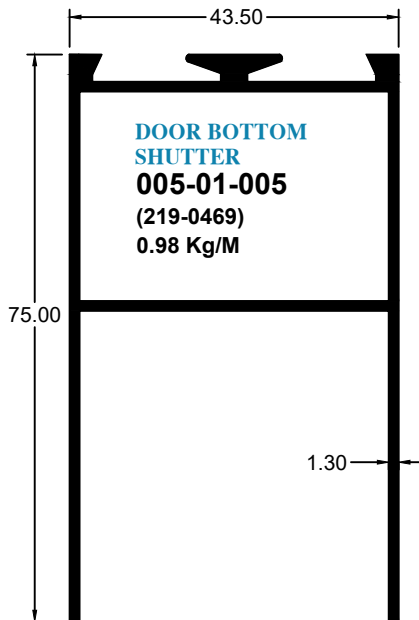
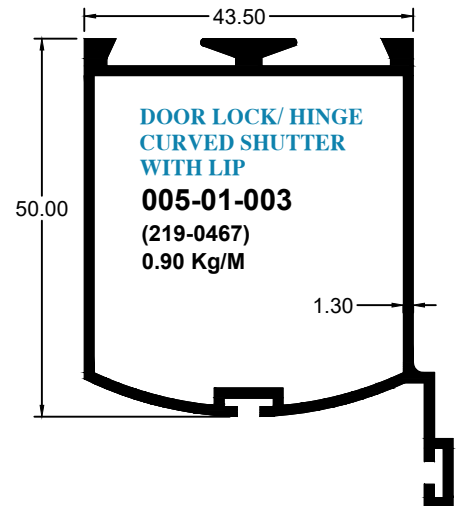
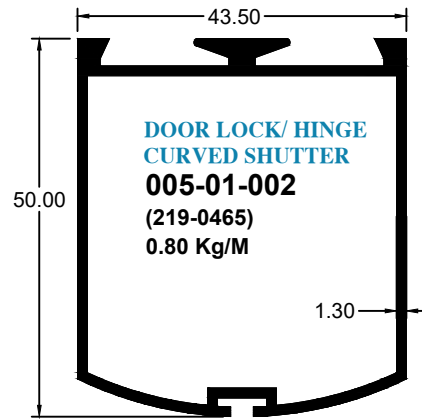
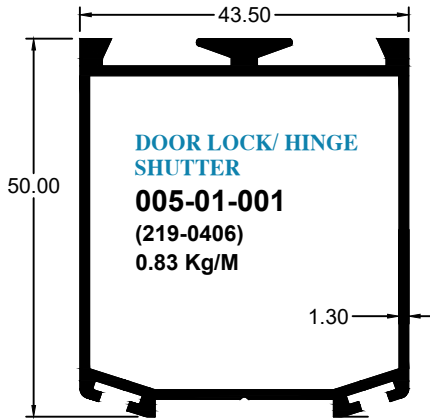
DOOR FRAME
005-03-006
(219-0315)
0.67 Kg/M



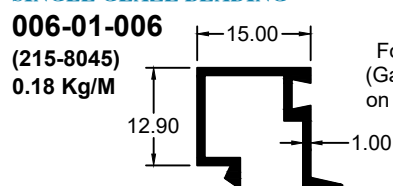
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3. When powder coated there will be a slight variance in weight.
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HAD 45 DOOR SERIES



SINGLE GLAZE BEADING

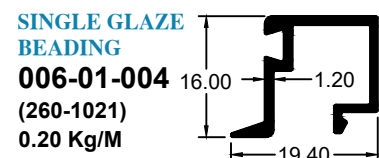
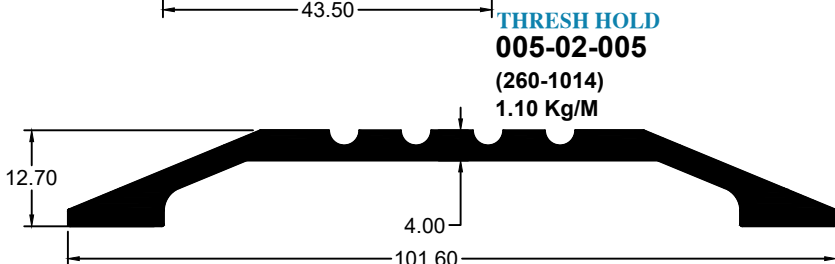
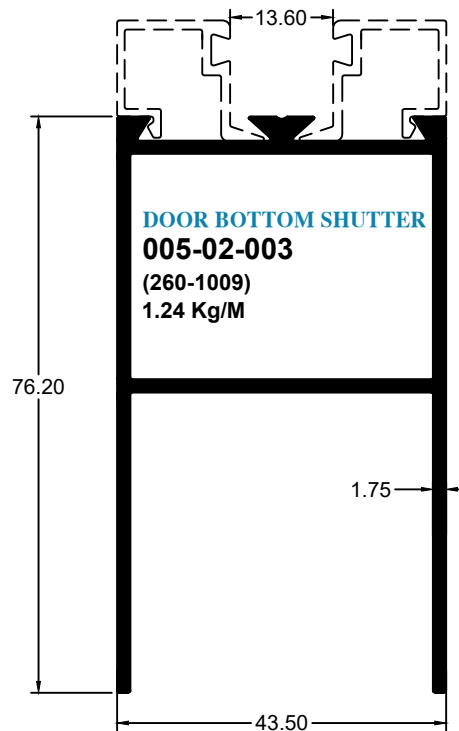
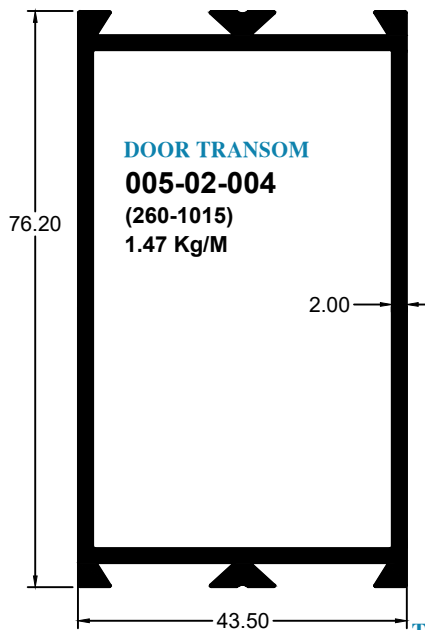
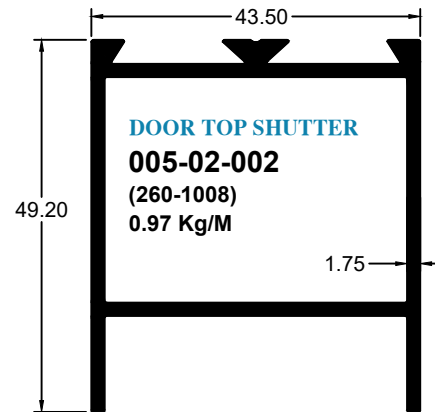
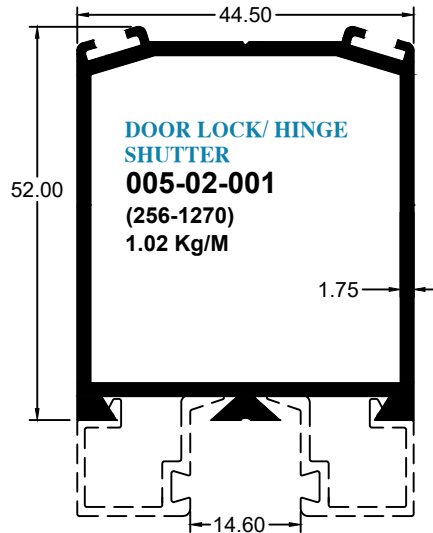


For glass size (6-10) mm
 (Gasket sizes vary depending on the preferred glass size)

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HAL 45 DOOR SERIES

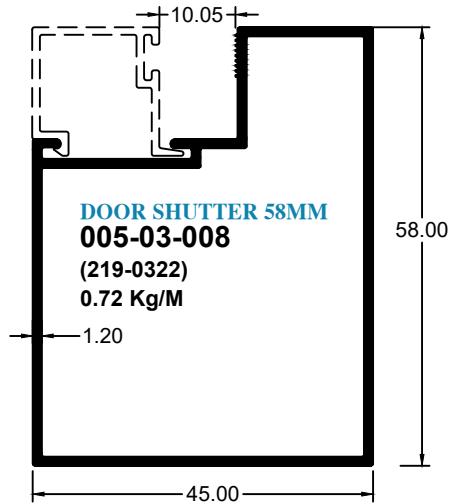
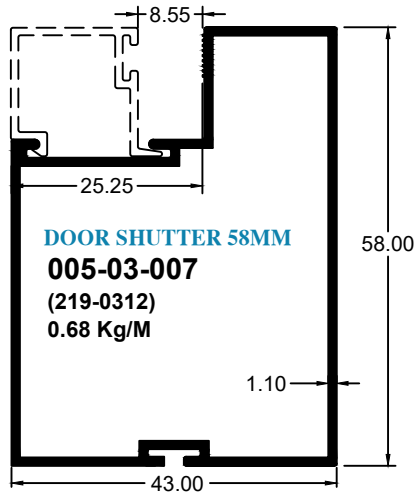


For glass size (6-10) mm
 (Gasket sizes vary depending
 on the preferred glass size)

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2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
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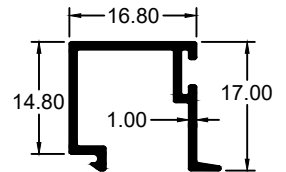


HAD 300 DOOR SERIES



SINGLE GLAZE BEADING

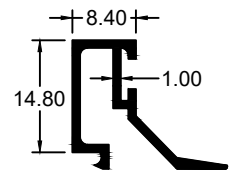
005-03-015
 (219-0306)
 0.18 Kg/M



For glass size (4 - 5) mm

SINGLE GLAZE BEADING

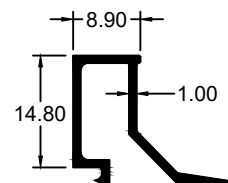
005-03-029
 (219-1411)
 0.17 Kg/M



For glass size (6-10) mm

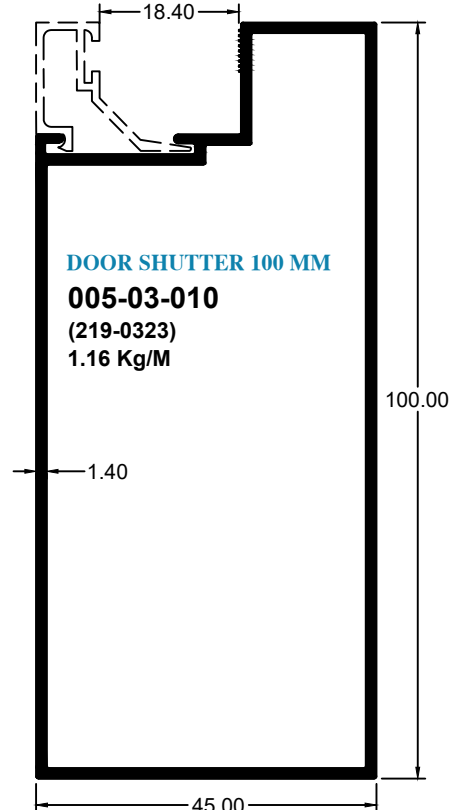
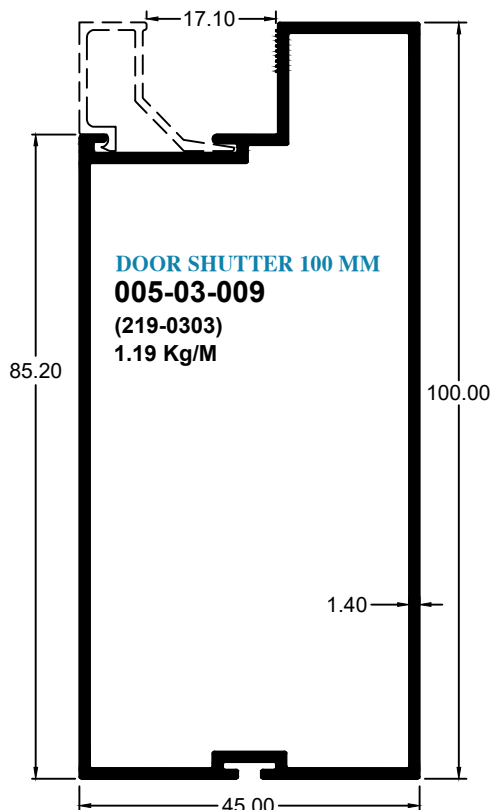
SINGLE GLAZE BEADING

005-03-030
 (219-1421)
 0.16 Kg/M



For glass size (6-10) mm

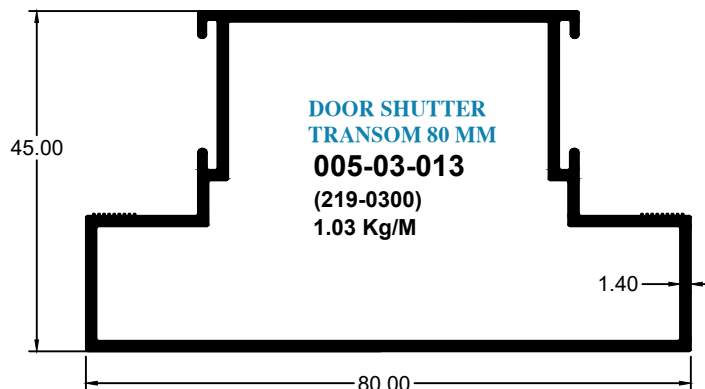
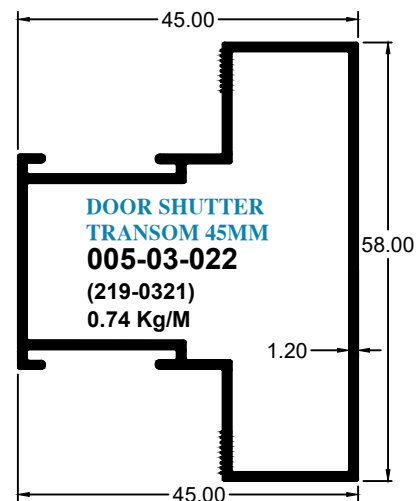
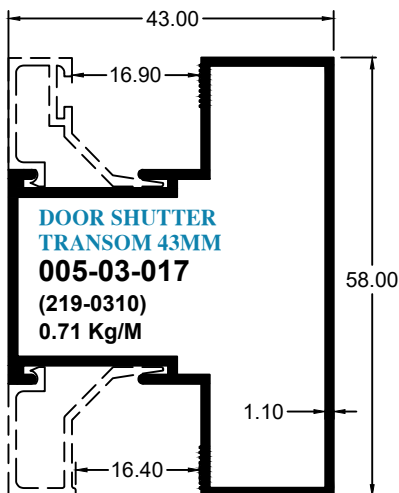
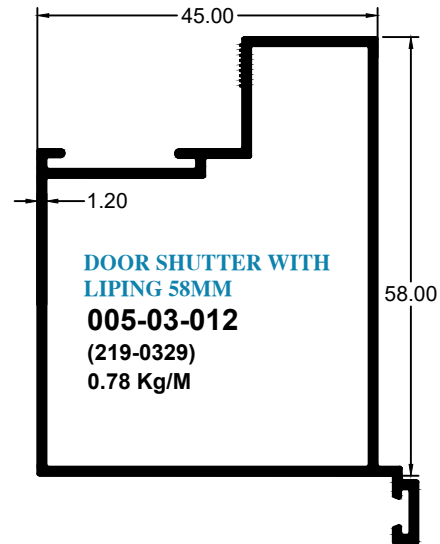
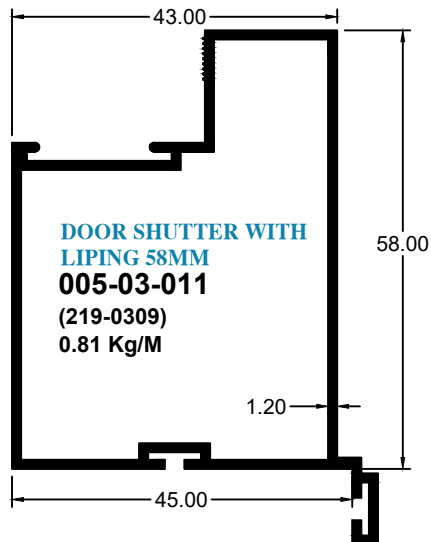
(Gasket sizes vary depending on the preferred glass size)



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2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
4. All rights to modify or improve the products are reserved to HAL. HAL reserves the right to make changes or modifications without prior notice.



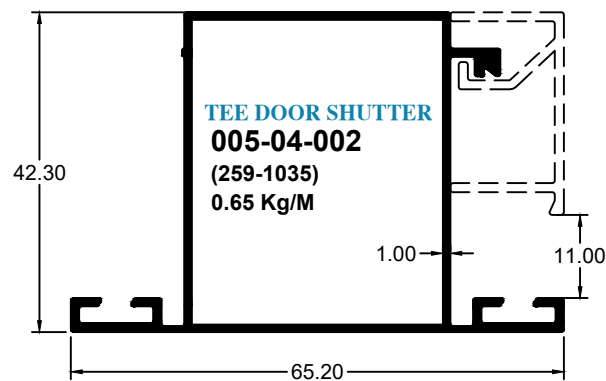
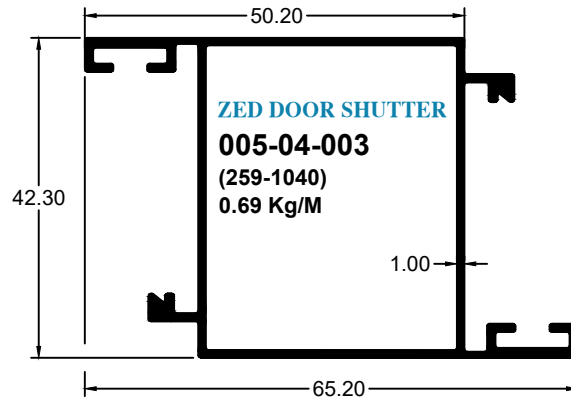
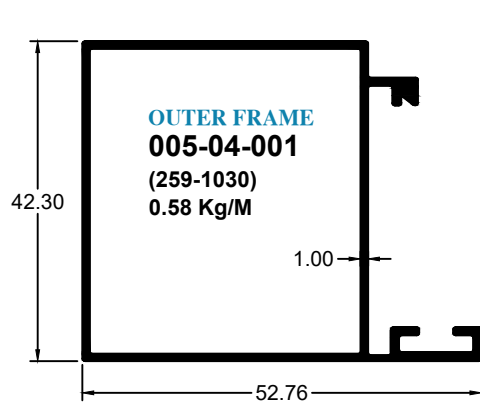
HAD 300 DOOR SERIES



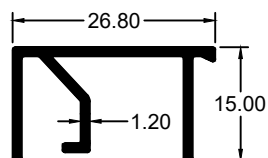
1. All dimensions are in mm
2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
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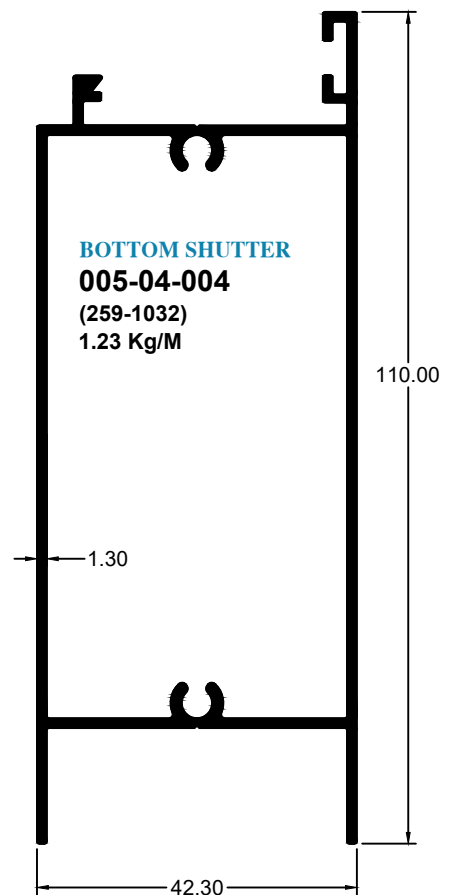
HYD DOOR SERIES



SINGLE GLAZE BEADING
006-10-005
 (259-1065)
 0.25 Kg/M



For glass size (4 - 8) mm
 (Gasket sizes vary depending
 on the preferred glass size)



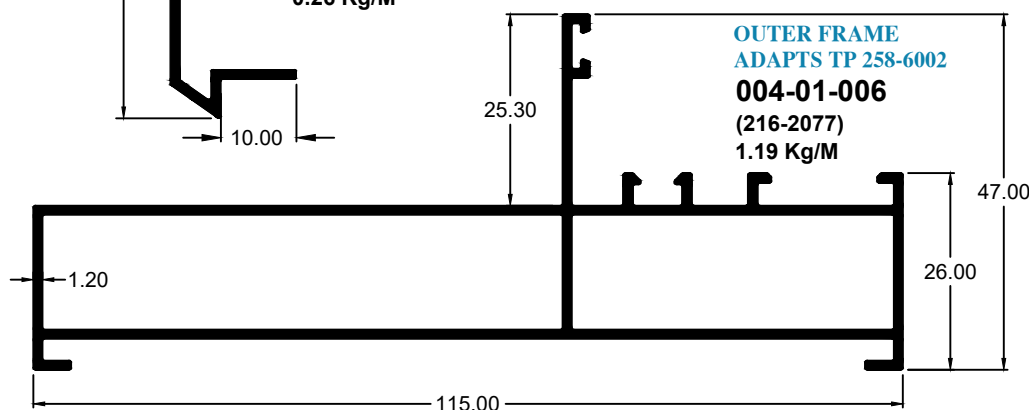
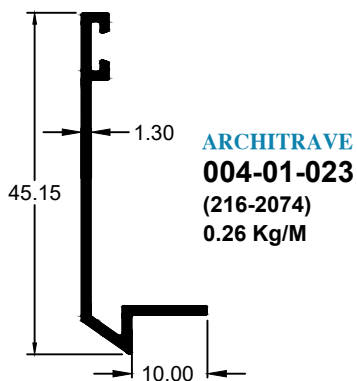
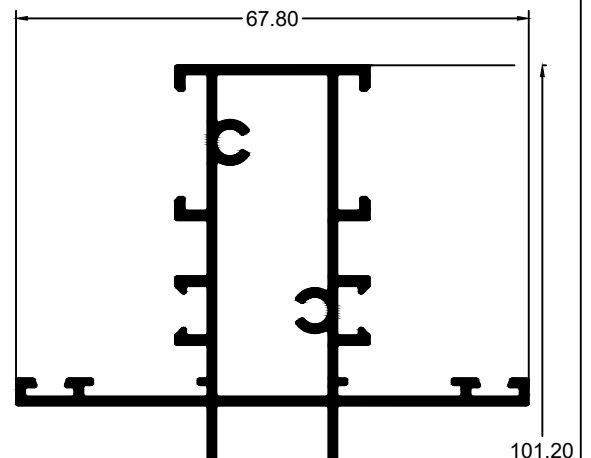
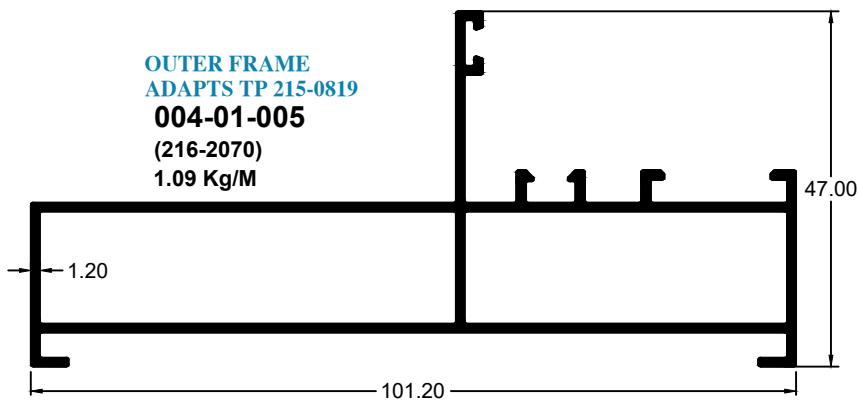
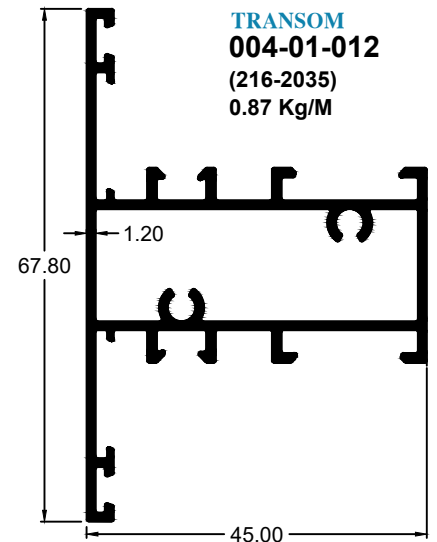
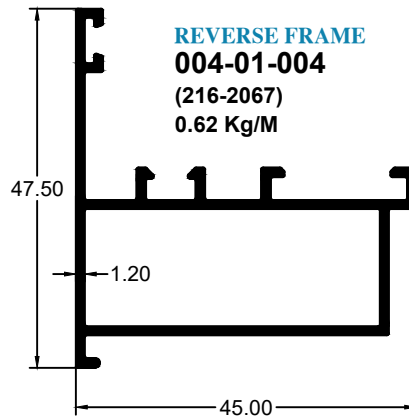
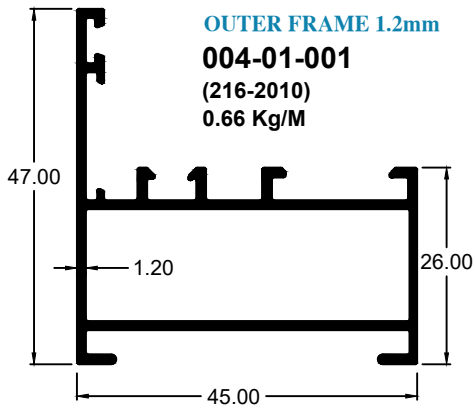
1. All dimensions are in mm
2. The weight shared is for Mill finish
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CASEMENTS



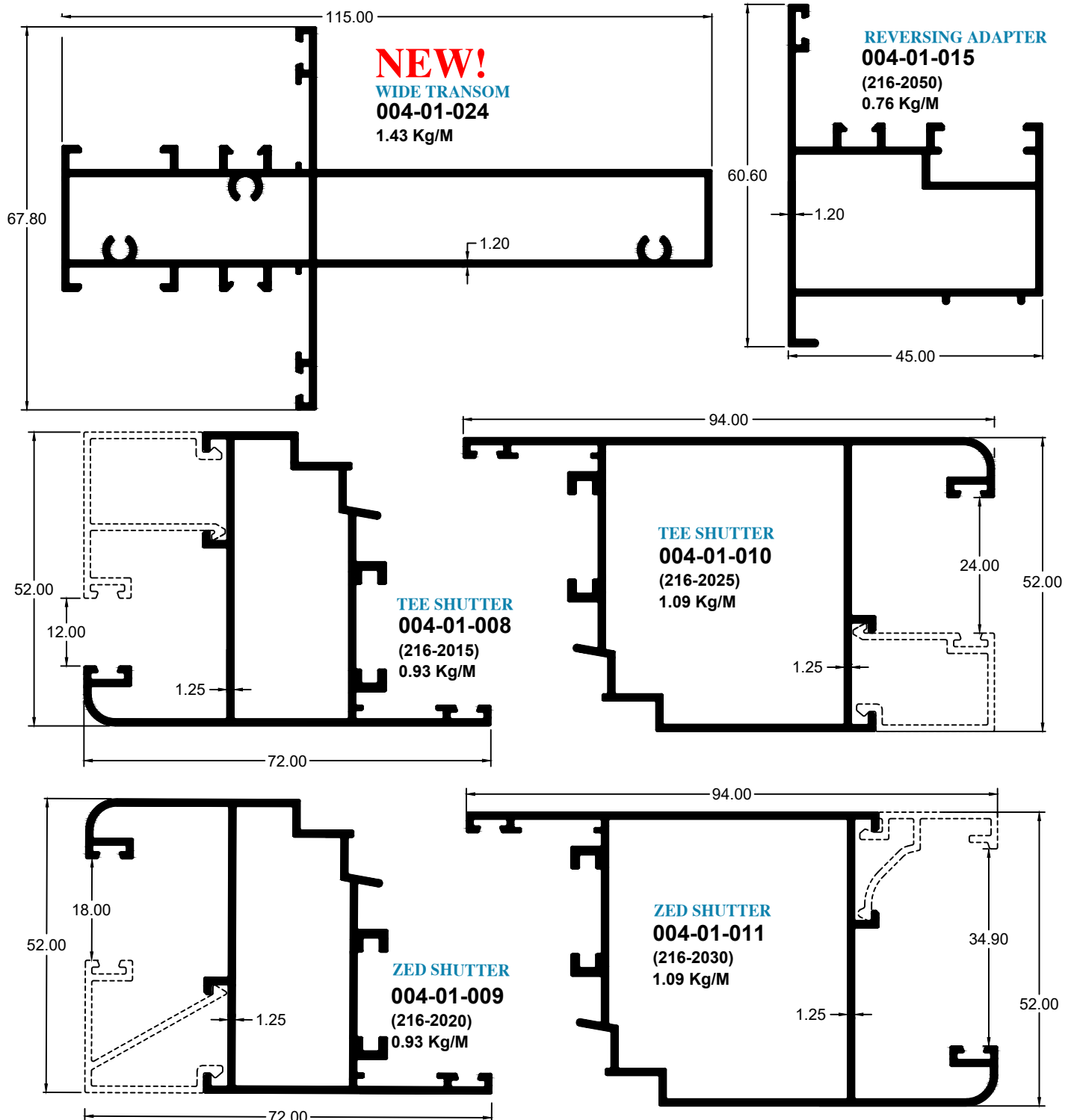
DELUXE 45 SERIES



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2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
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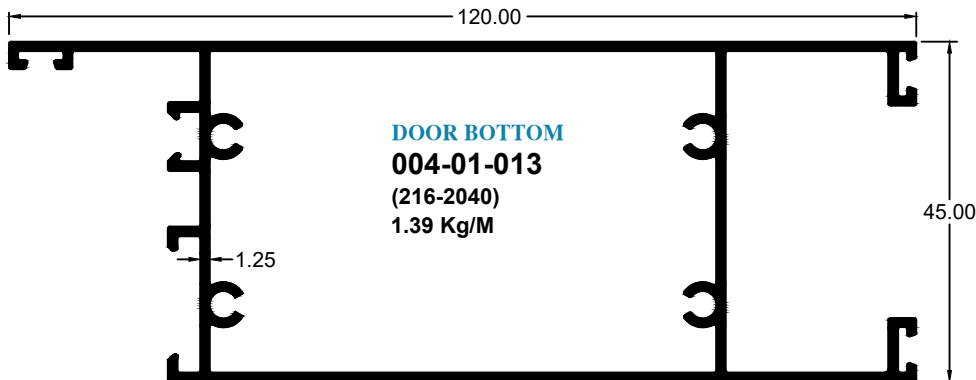
DELUXE 45 SERIES



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2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
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DELUXE 45 SERIES

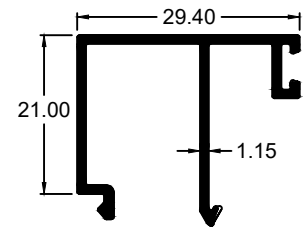


SINGLE GLAZE BEADING

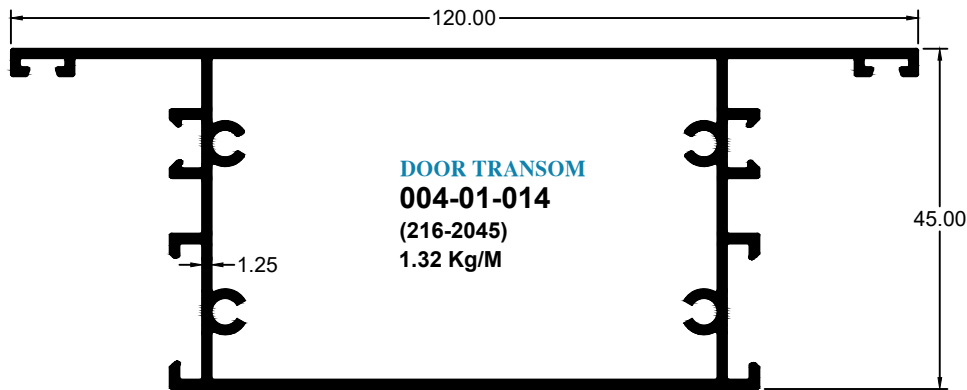
004-01-016

(216-2055)

0.31 Kg/M



For glass size (4 - 6) mm

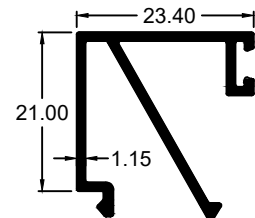


SINGLE GLAZE BEADING

004-01-017

(216-2056)

0.30 Kg/M



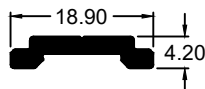
For glass size (6 - 12) mm

TRANSMISSION STRIP

004-01-007

(216-2080)

0.15 Kg/M

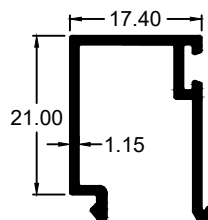


DOUBLE GLAZE BEADING

004-01-018

(216-2057)

0.25 Kg/M



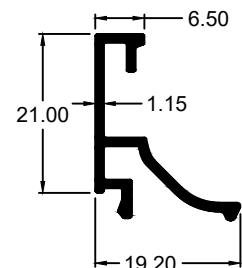
For glass size (16-20) mm

DOUBLE GLAZE BEADING

004-01-019

(216-2058)

0.21 Kg/M



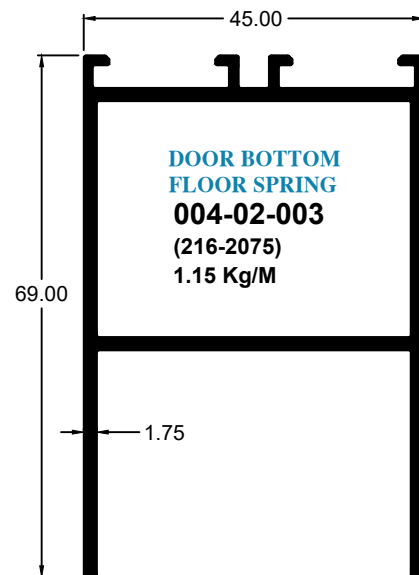
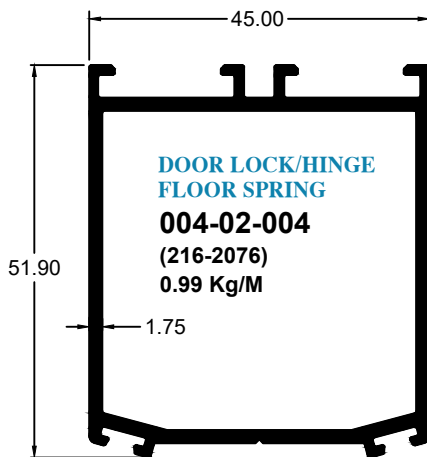
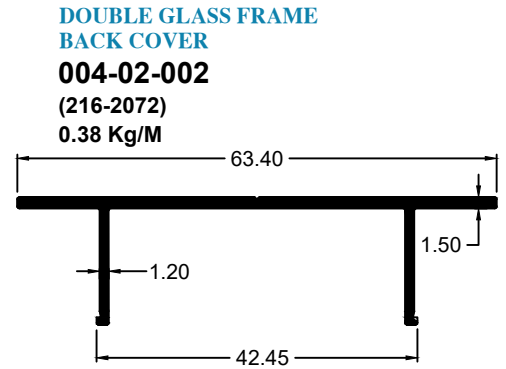
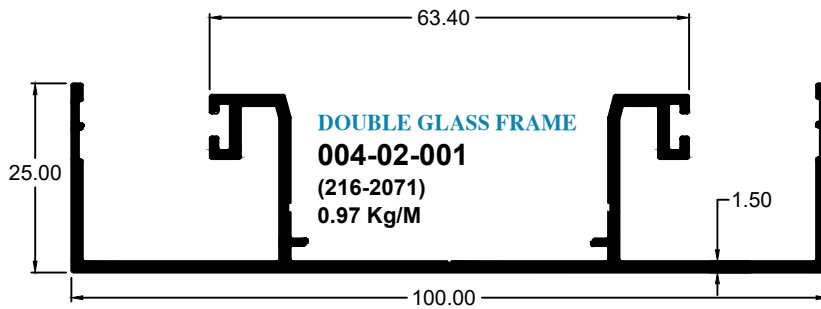
For glass size (25 - 30) mm

(Gasket sizes vary depending on the preferred glass size)

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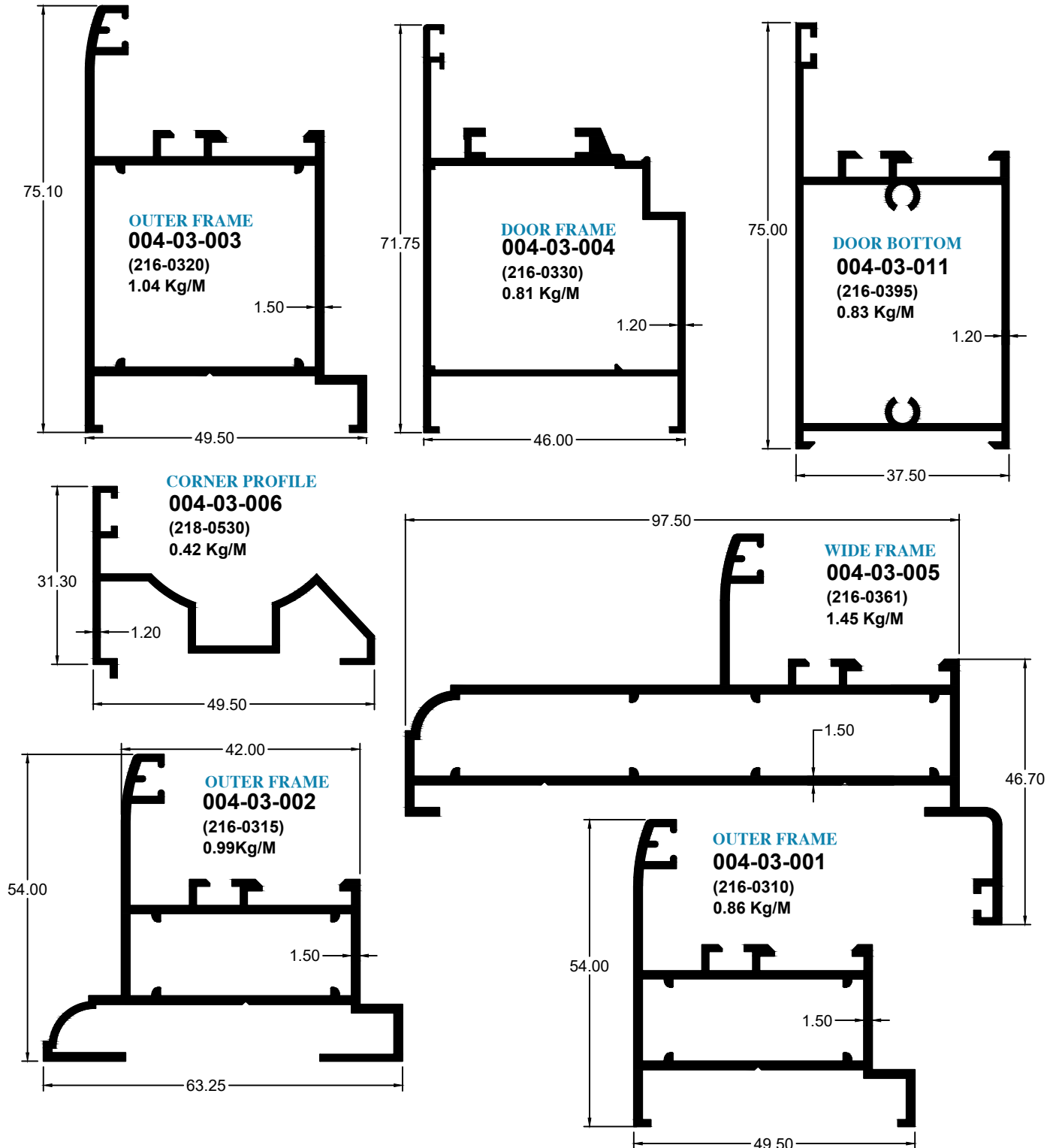
DELUXE 45 DOOR SERIES



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65 SERIES FRAMES



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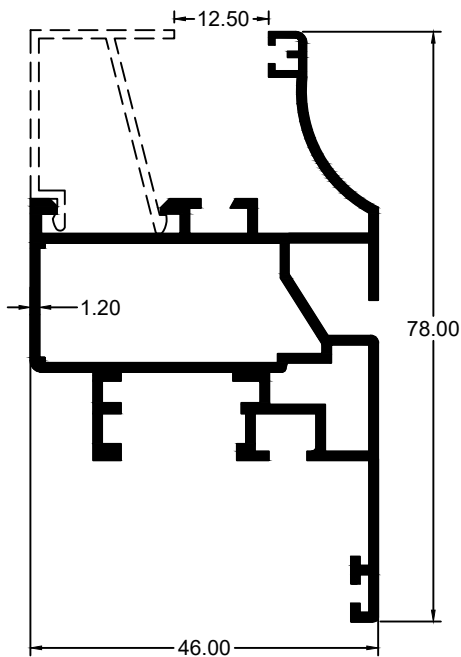
CASEMENT 65 SERIES

TEE SHUTTER

004-03-008

(216-0350)

1.04 Kg/M

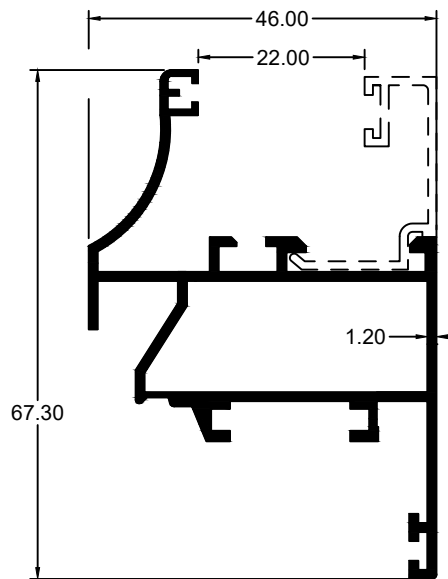


ZED SHUTTER

004-03-007

(216-0340)

0.82 Kg/M

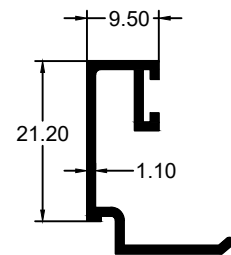


DOUBLE GLAZE BEADING

004-03-016

(218-0545)

0.21 Kg/M



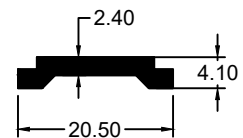
For glass size (12 - 18) mm

TRANSMISSION STRIP

004-03-018

(218-0541)

0.16 Kg/M

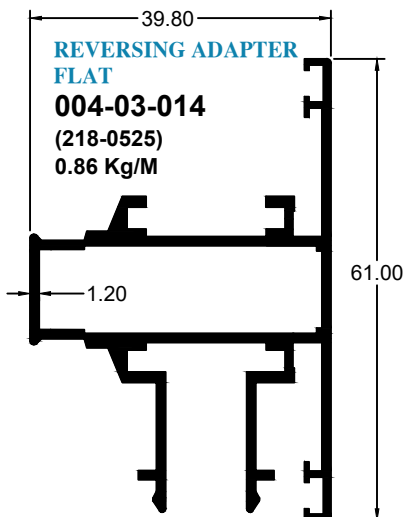


REVERSING ADAPTER FLAT

004-03-014

(218-0525)

0.86 Kg/M

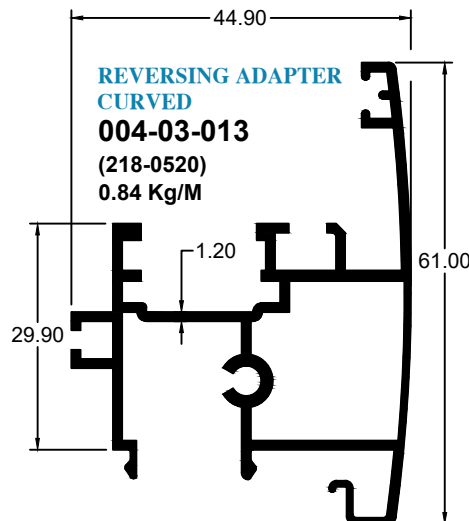


REVERSING ADAPTER CURVED

004-03-013

(218-0520)

0.84 Kg/M

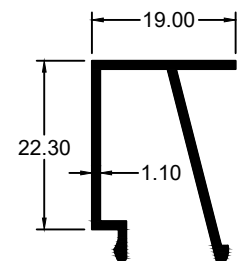


SINGLE GLAZE BEADING

004-03-017

(218-0546)

0.24 Kg/M



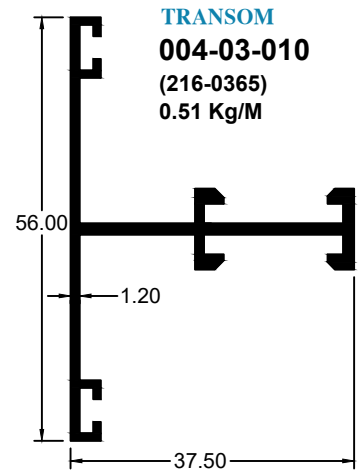
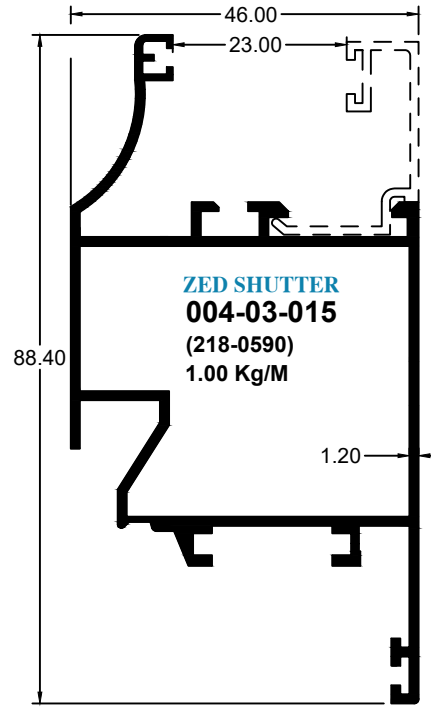
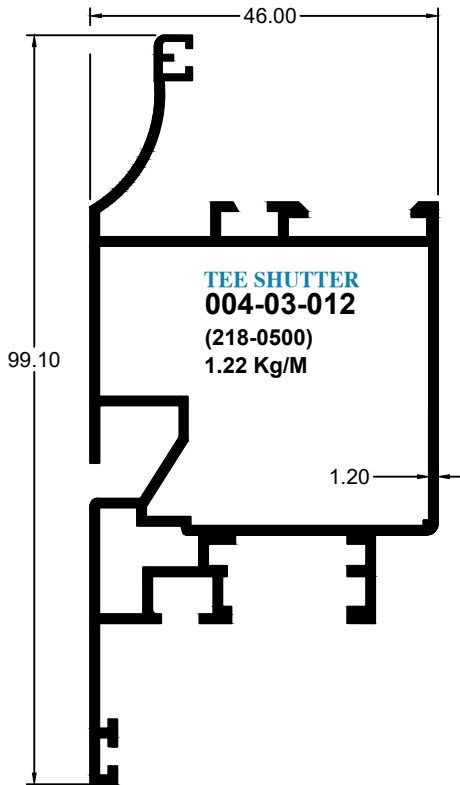
For glass size (4 - 8) mm

(Gasket sizes vary depending on the preferred glass size)

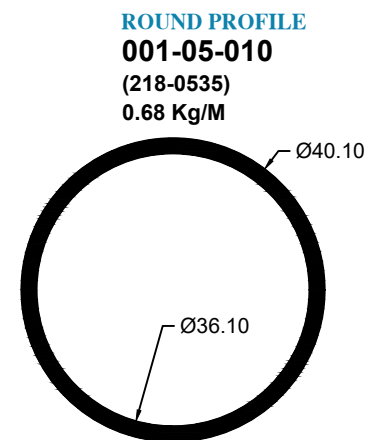
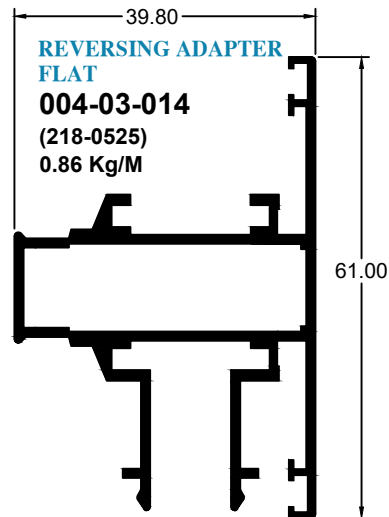
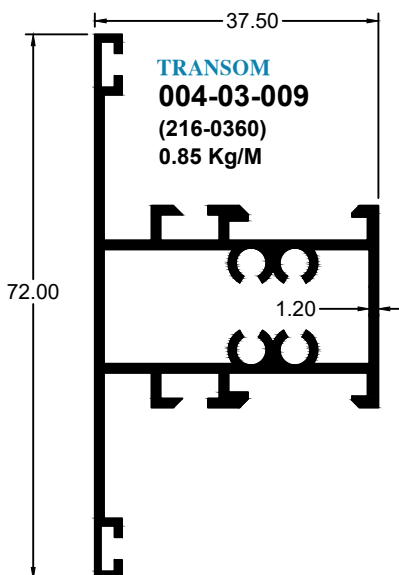
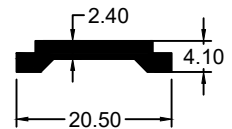
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65 DOOR SERIES



TRANSMISSION STRIP
004-03-018
(218-0541)
0.16 Kg/M



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2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
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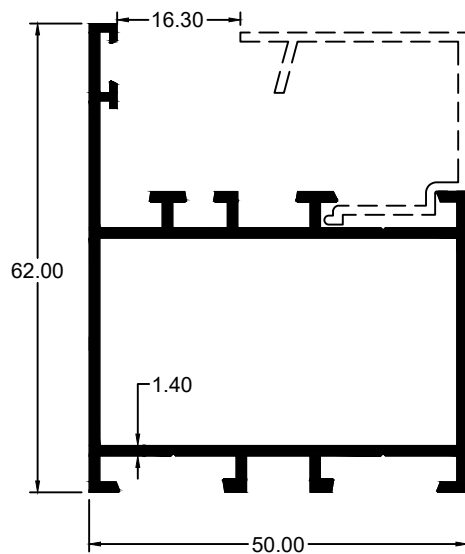
CASEMENT CB SERIES

OUTER FRAME

004-04-001

(216-1040)

0.98 Kg/M

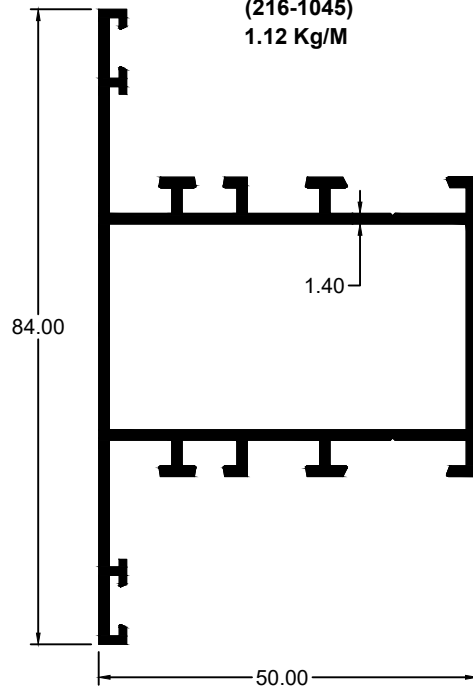


TRANSOM

004-04-002

(216-1045)

1.12 Kg/M

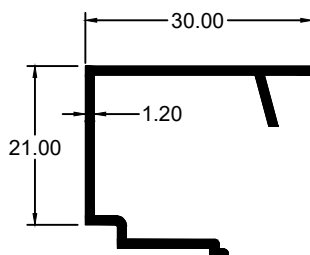


SINGLE GLAZE BEADING

004-04-003

(216-1050)

0.27 Kg/M

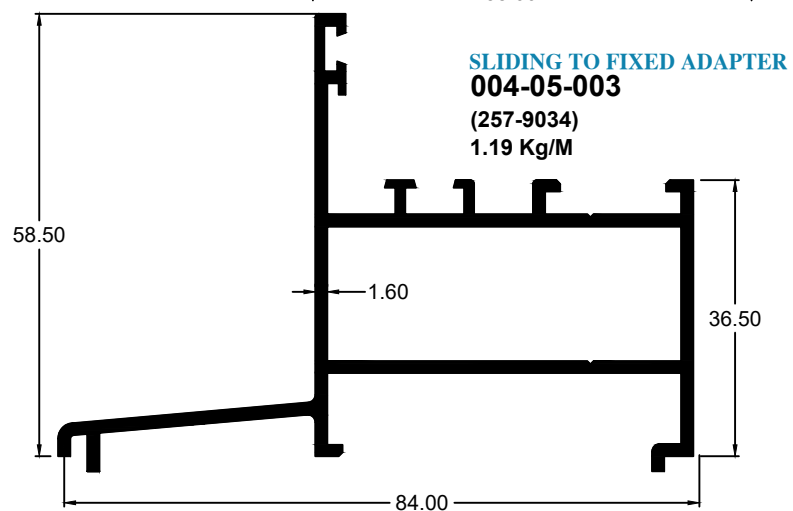
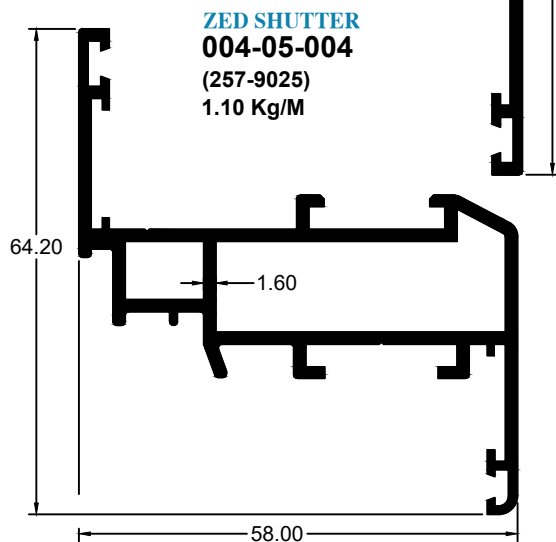
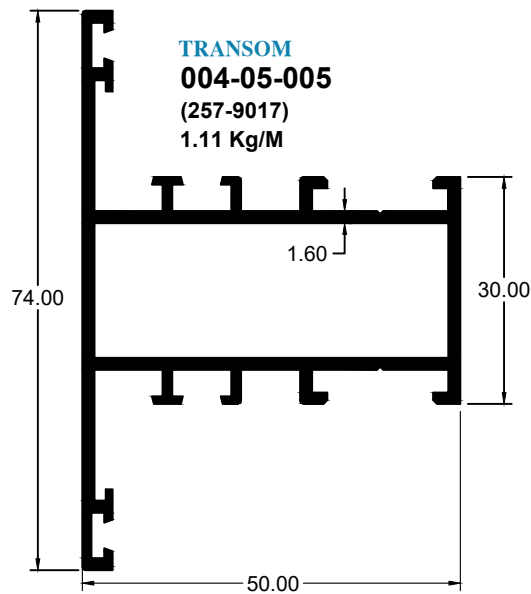
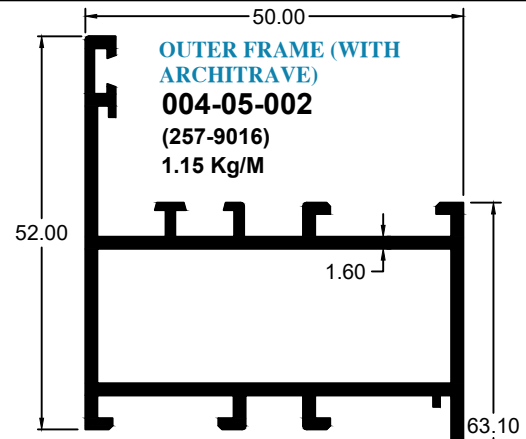
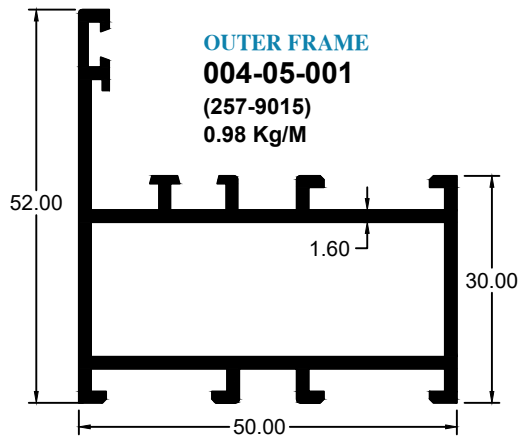


For glass size (8 - 12) mm
(Gasket sizes vary depending
on the preferred glass size)

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2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
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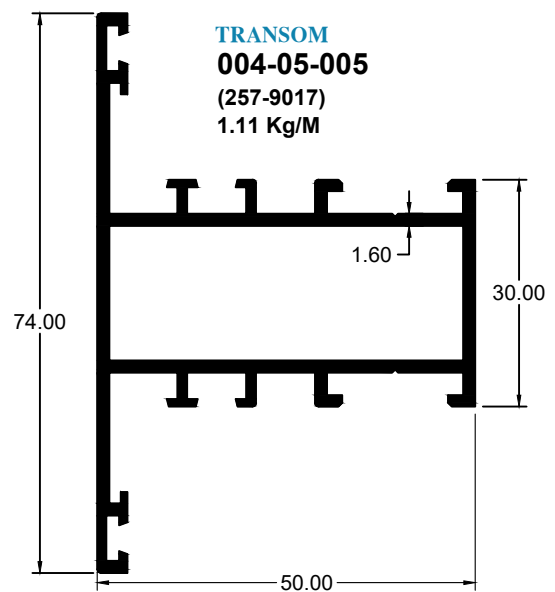
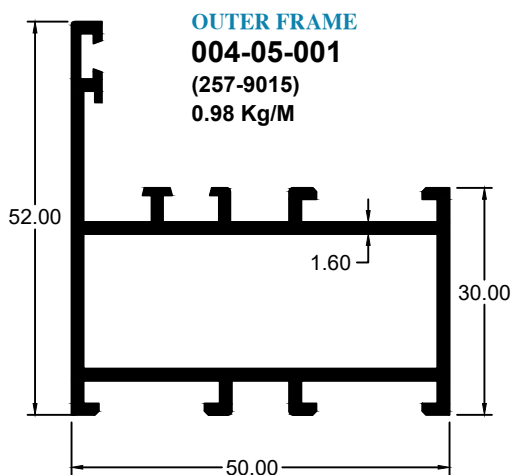
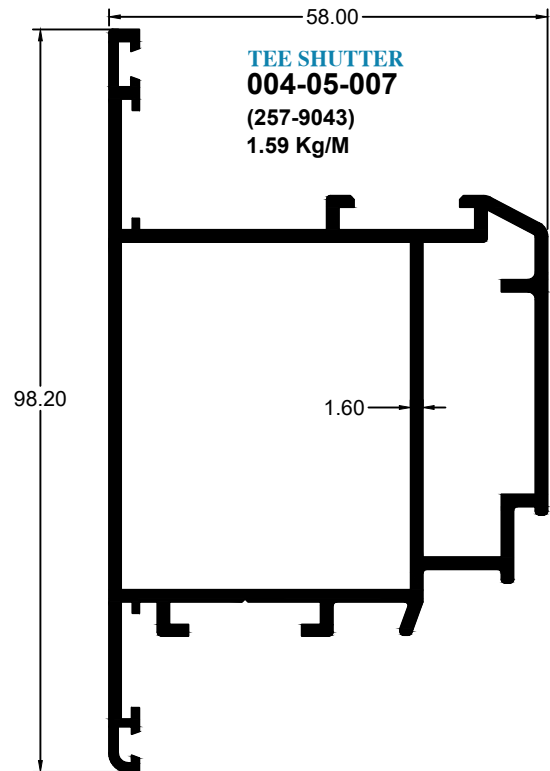
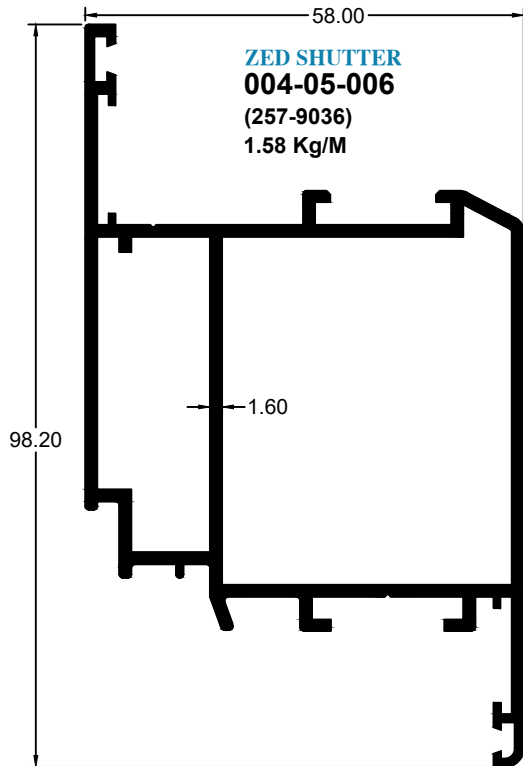
CASEMENT 50 SERIES



1. All dimensions are in mm
2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
4. All rights to modify or improve the products are reserved to HAL. HAL reserves the right to make changes or modifications without prior notice.



DOOR 50 SERIES



1. All dimensions are in mm
2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
4. All rights to modify or improve the products are reserved to HAL. HAL reserves the right to make changes or modifications without prior notice.



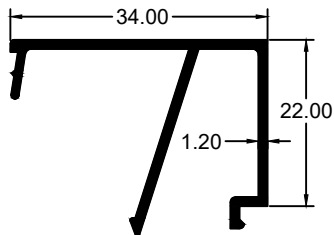
CASEMENT 50 SERIES

SINGLE GLAZE BEADING

004-05-008

(256-1290)

0.32 Kg/M



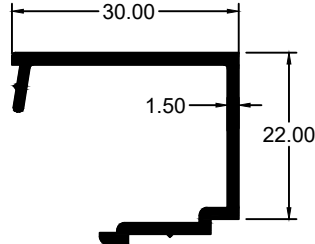
For glass size (4-6) mm

SINGLE GLAZE BEADING

004-05-009

(257-9032)

0.34 Kg/M



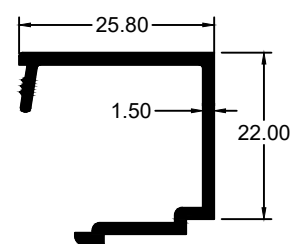
For glass size (8-11) mm

SINGLE GLAZE BEADING

004-05-010

(257-9031)

0.32 Kg/M



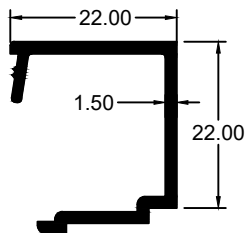
For glass size (12-15) mm

DOUBLE GLAZE BEADING

004-05-011

(257-9029)

0.30 Kg/M



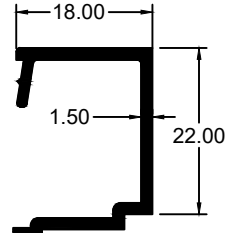
For glass size (16-19) mm

DOUBLE GLAZE BEADING

004-05-012

(257-9028)

0.28 Kg/M



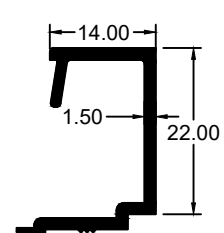
For glass size (20-23) mm

DOUBLE GLAZE BEADING

004-05-013

(257-9018)

0.26 Kg/M



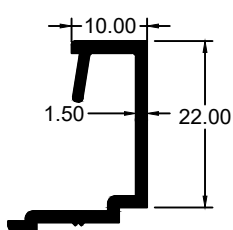
For glass size (24-27) mm

DOUBLE GLAZE BEADING

004-05-014

(257-9030)

0.25 Kg/M



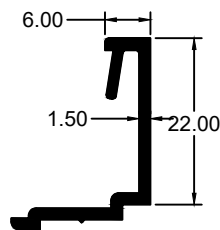
For glass size (28-31) mm

DOUBLE GLAZE BEADING

004-05-015

(257-9027)

0.23 Kg/M



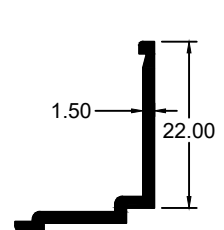
For glass size 32-35 mm

DOUBLE GLAZE BEADING

004-05-016

(257-9026)

0.18 Kg/M



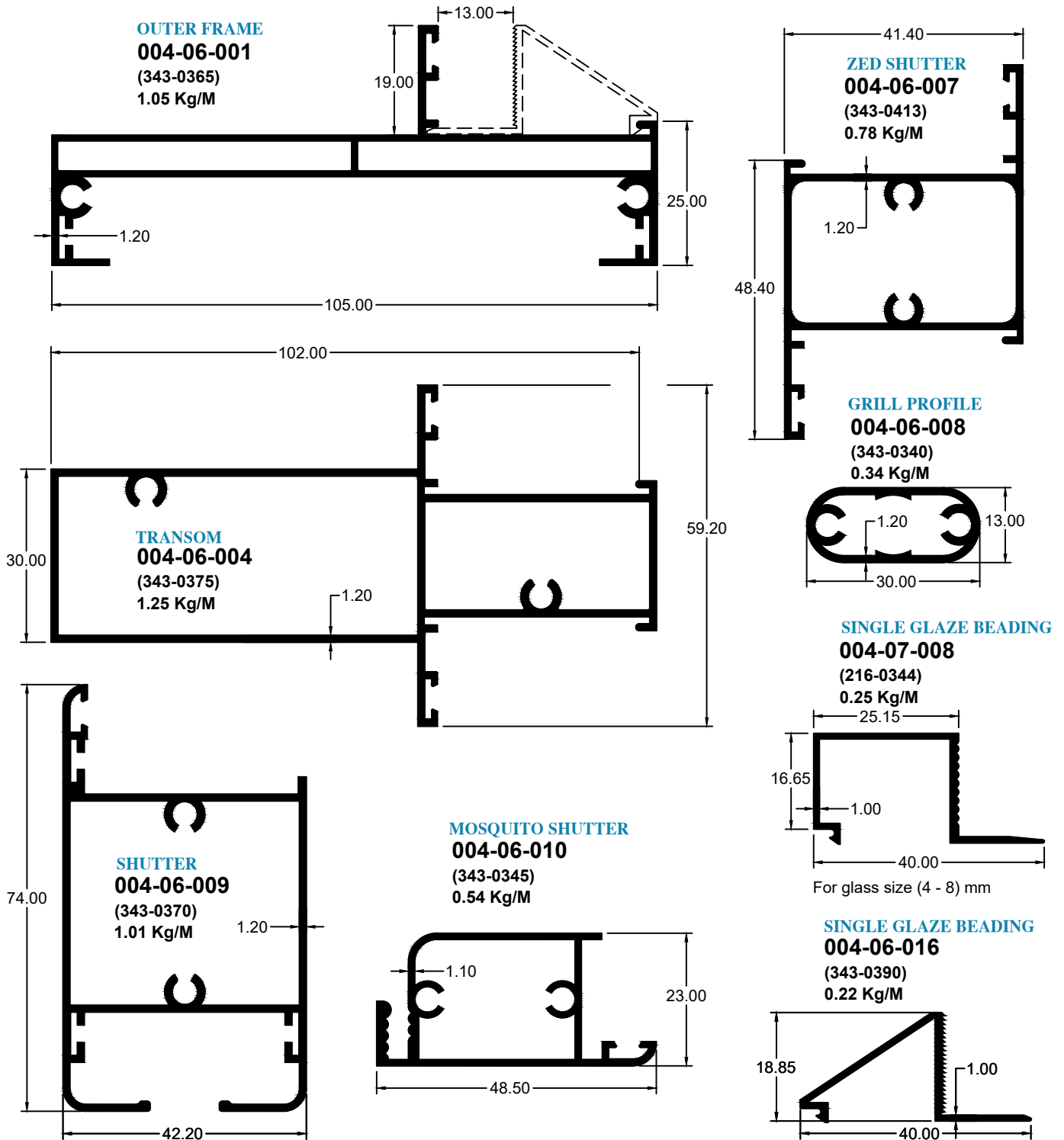
For glass size 36-39 mm

(Gasket sizes vary depending on the preferred glass size)

1. All dimensions are in mm
2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
4. All rights to modify or improve the products are reserved to HAL. HAL reserves the right to make changes or modifications without prior notice.



NYL CASEMENT SERIES



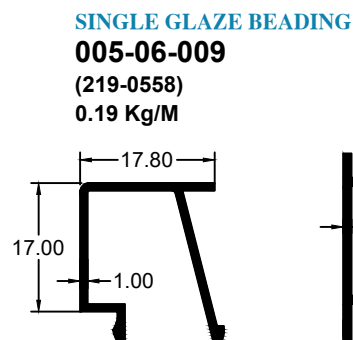
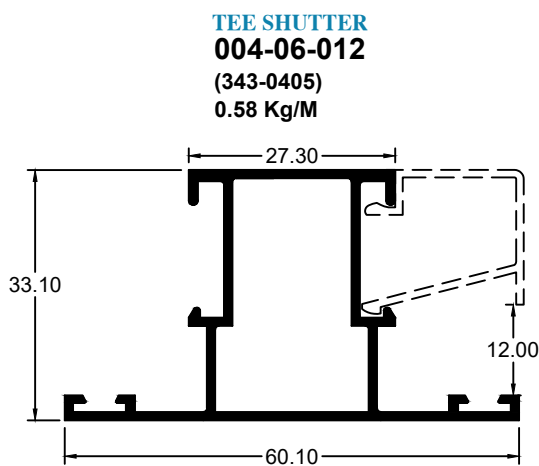
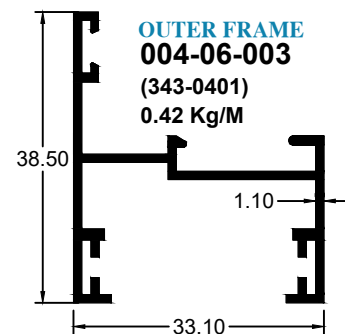
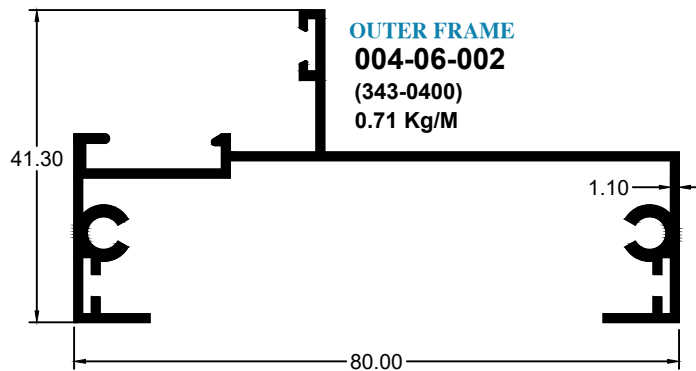
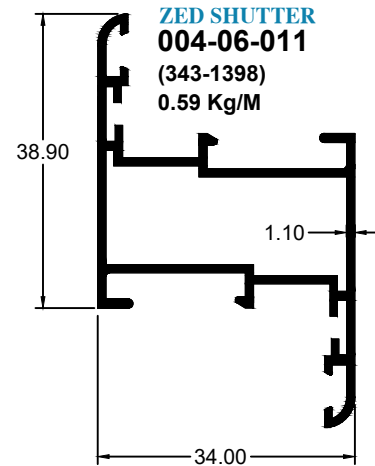
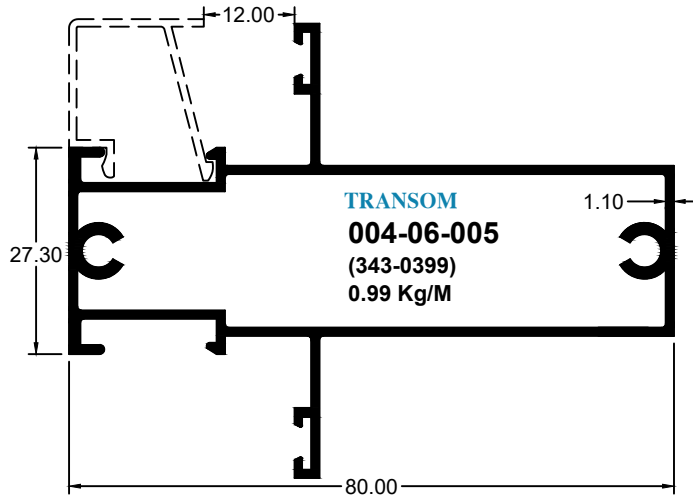
1. All dimensions are in mm
2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
4. All rights to modify or improve the products are reserved to HAL. HAL reserves the right to make changes or modifications without prior notice.

(Gasket sizes vary depending on the preferred glass size)

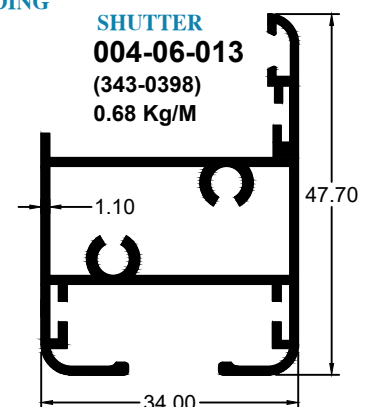
For glass size (4 - 8) mm



NYL CASEMENT SERIES



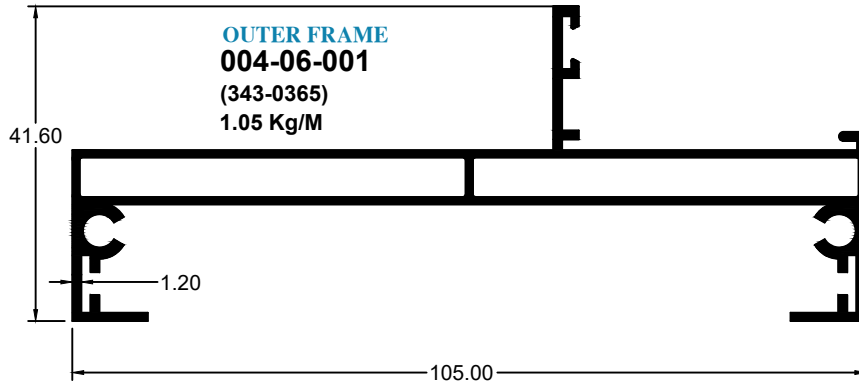
For glass size (4 - 8) mm
(Gasket sizes vary depending on the preferred glass size)



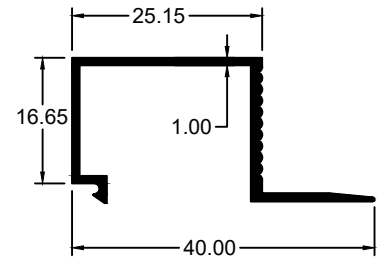
1. All dimensions are in mm
2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
4. All rights to modify or improve the products are reserved to HAL. HAL reserves the right to make changes or modifications without prior notice.



NYL DOOR SERIES

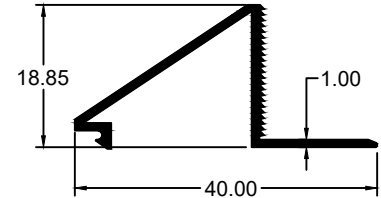


SINGLE GLAZE BEADING
004-07-008
(216-0344)
0.25 Kg/M

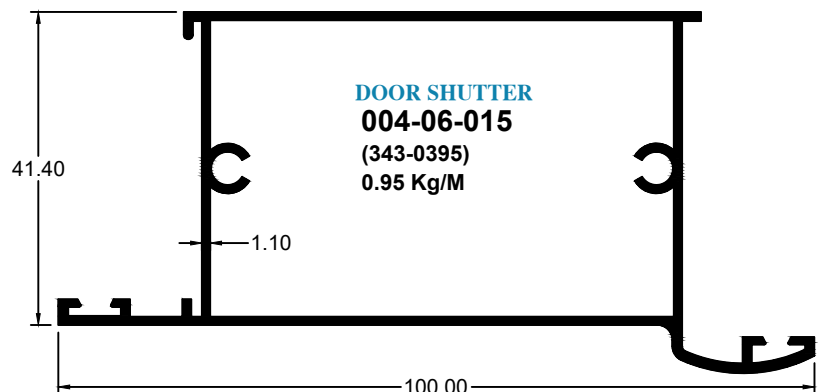
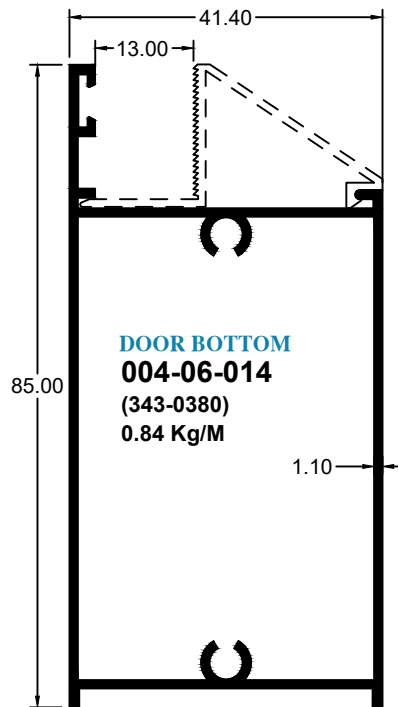
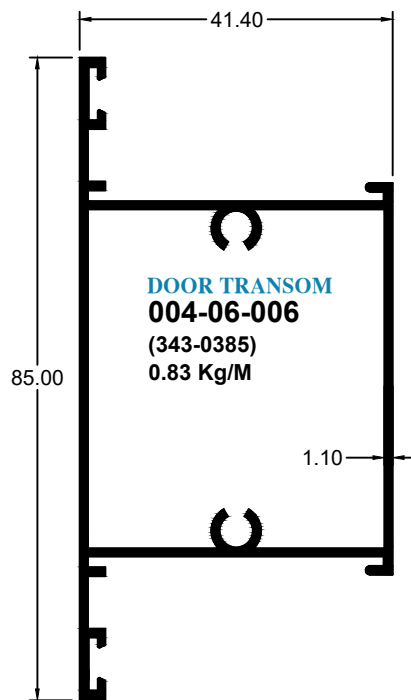


For glass size (4 - 8) mm
(Gasket sizes vary depending on the preferred glass size)

SINGLE GLAZE BEADING
004-06-016
(343-0390)
0.22 Kg/M



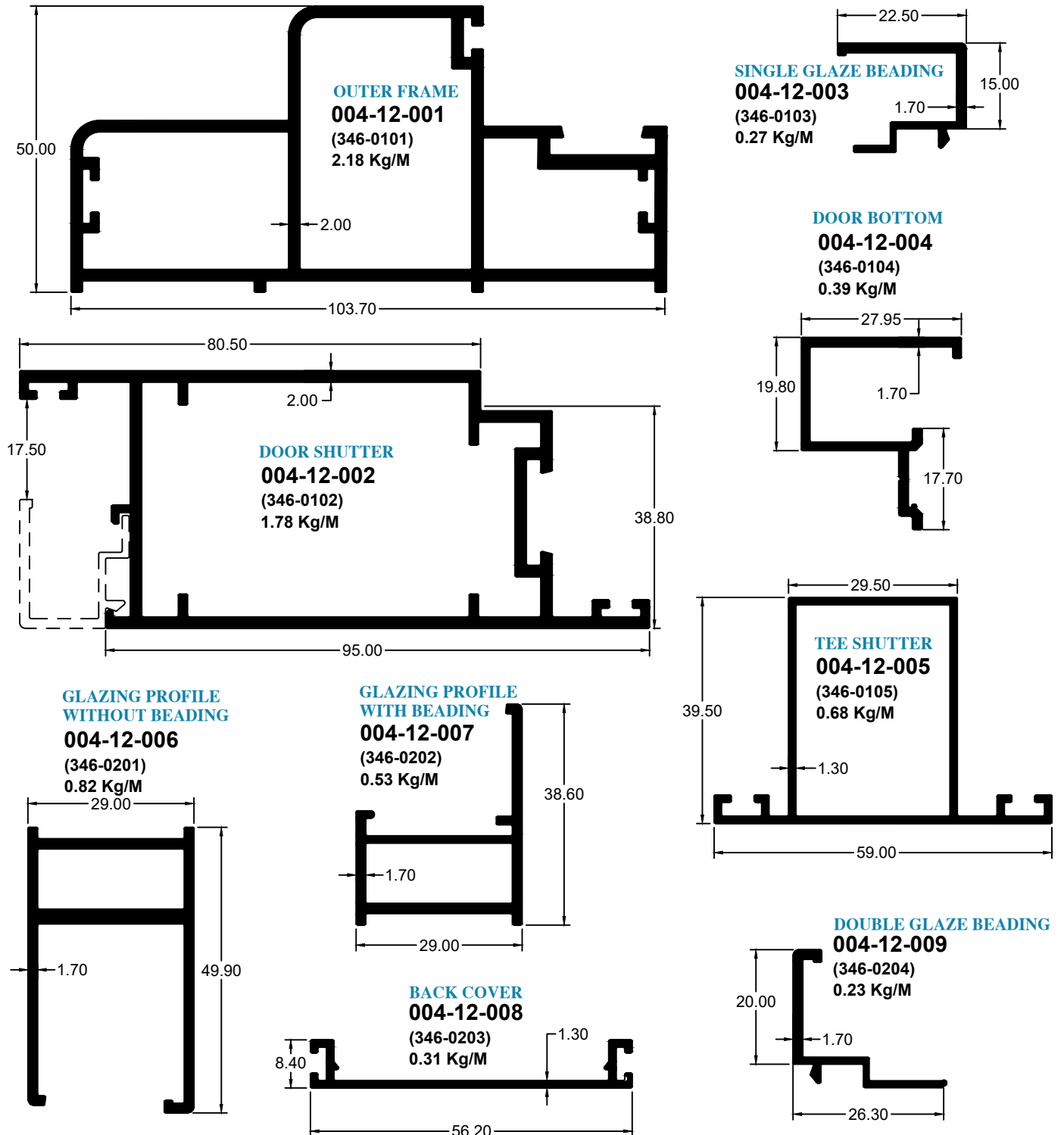
For glass size (4 - 8) mm
(Gasket sizes vary depending on the preferred glass size)



1. All dimensions are in mm
2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
4. All rights to modify or improve the products are reserved to HAL. HAL reserves the right to make changes or modifications without prior notice.



SINGLE/DOUBLE PARTITION



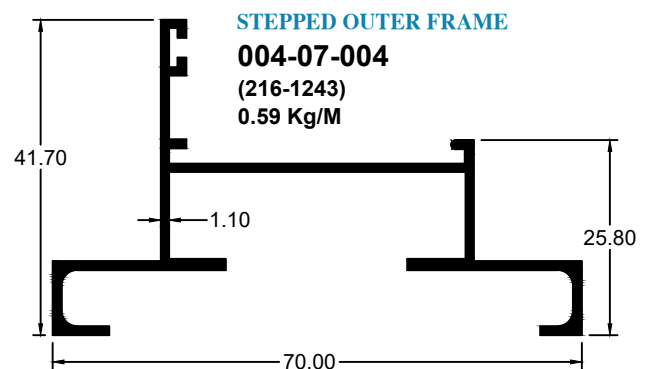
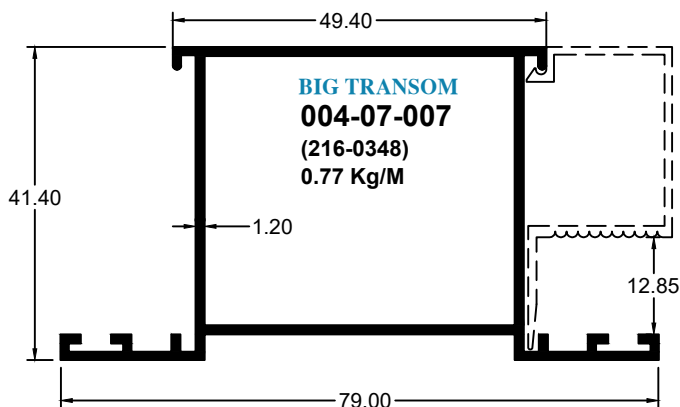
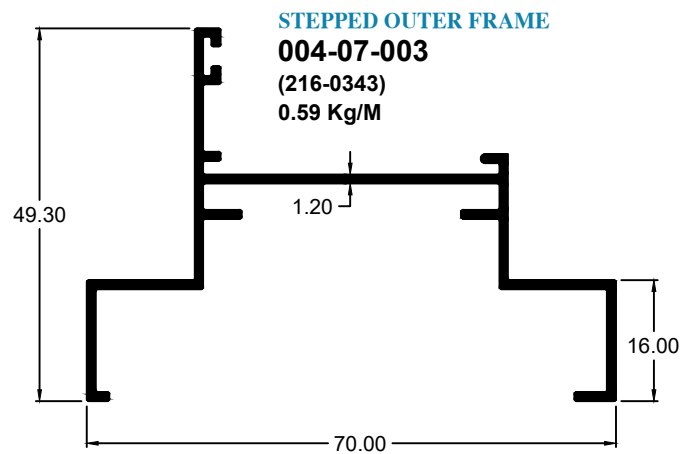
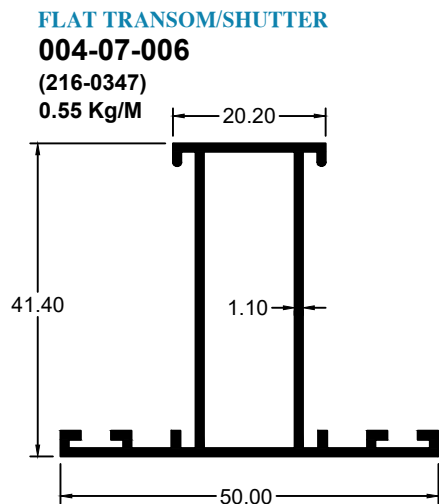
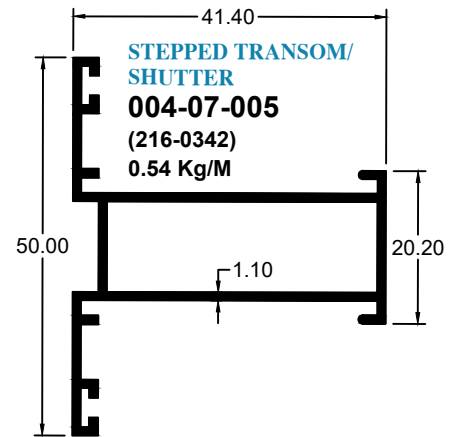
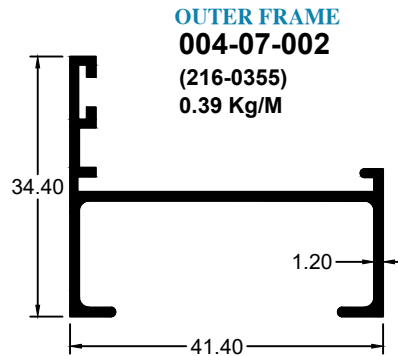
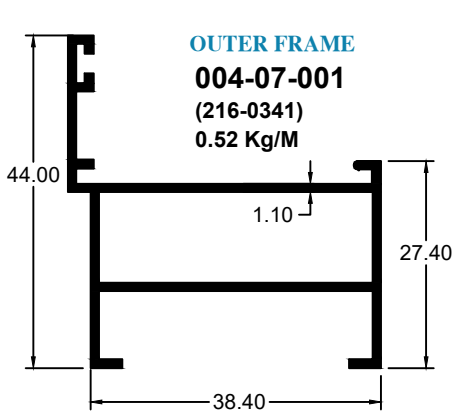
1. All dimensions are in mm
2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
4. All rights to modify or improve the products are reserved to HAL. HAL reserves the right to make changes or modifications without prior notice.



PROJECTING WINDOWS



GENERAL CASEMENT



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2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
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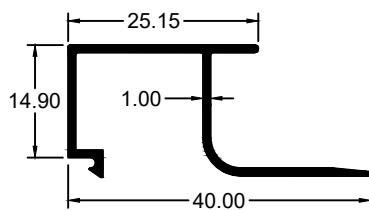
GENERAL CASEMENT

SINGLE GLAZE BEADING

004-07-010

(216-0354)

0.23 Kg/M



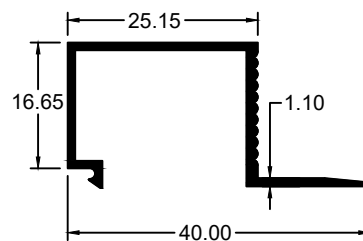
For glass size (4 - 8) mm

SINGLE GLAZE BEADING

004-07-008

(216-0344)

0.25 Kg/M



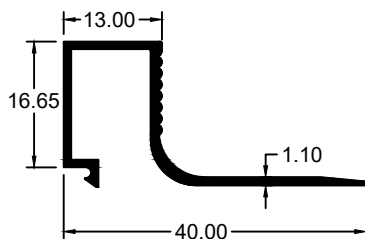
For glass size (4 - 8) mm

DOUBLE GLAZE BEADING

004-07-009

(216-0349)

0.25 Kg/M



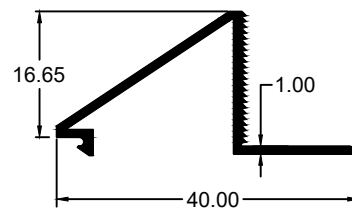
For glass size (12 - 18) mm

SINGLE GLAZE BEADING

004-06-016

(343-0390)

0.22 Kg/M



For glass size (4 - 8) mm

(Gasket sizes vary depending
on the preferred glass size)

1. All dimensions are in mm
2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
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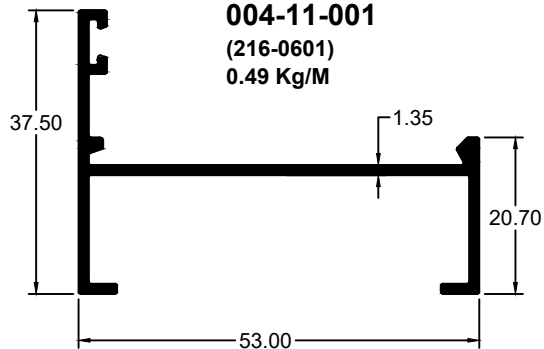
HEAVY CASEMENT

OUTER FRAME

004-11-001

(216-0601)

0.49 Kg/M

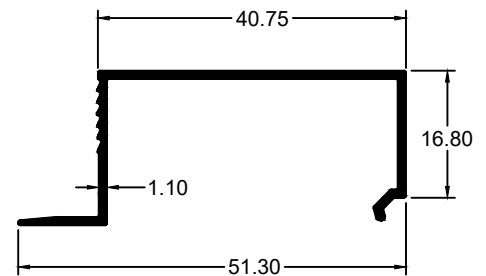


SINGLE GLAZE BEADING

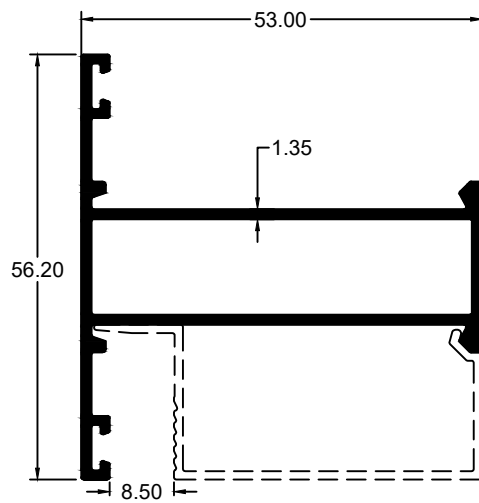
004-11-003

(216-0603)

0.29 Kg/M



For glass size (4 - 6) mm
(Gasket sizes vary depending
on the preferred glass size)



FLAT TRANSOM/SHUTTER

004-11-002

(216-0602)

0.78 Kg/M

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3. When powder coated there will be a slight variance in weight.
4. All rights to modify or improve the products are reserved to HAL. HAL reserves the right to make changes or modifications without prior notice.



PARTITIONS SHOP-FRONTS



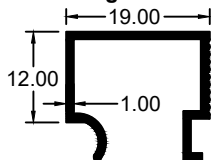
BUTTERFLY PROFILES

SINGLE GLAZE BEADING

006-01-002

(219-0340)

0.17 Kg/M

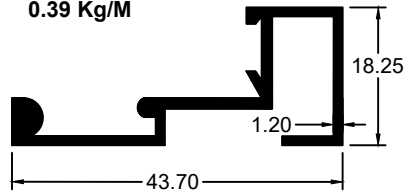


BUTTERFLY

006-01-001

(219-0305)

0.39 Kg/M

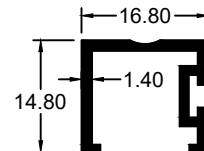


SINGLE GLAZE BEADING

006-01-014

(219-0308)

0.21 Kg/M

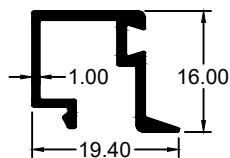


SINGLE GLAZE BEADING

006-01-004

(260-1021)

0.20 Kg/M

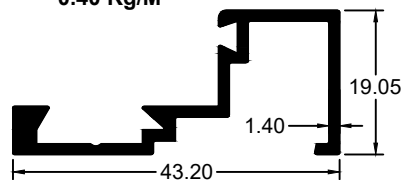


BUTTERFLY

006-01-003

(260-1012)

0.40 Kg/M

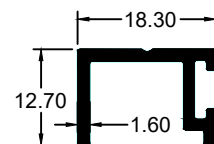


DOOR STOPPER

006-01-013

(260-1013)

0.20 Kg/M

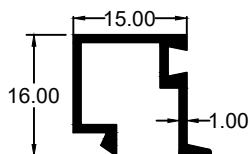


SINGLE GLAZE BEADING

006-01-006

(215-8045)

0.18 Kg/M

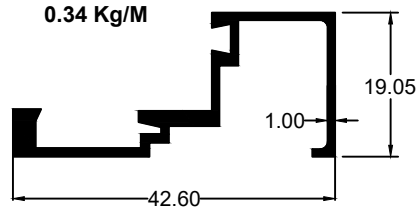


BUTTERFLY

006-01-005

(215-8040)

0.34 Kg/M

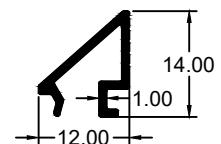


SINGLE GLAZE BEADING

006-01-010

(219-0414)

0.11 Kg/M

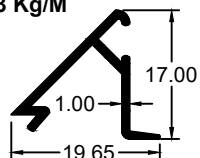


SINGLE GLAZE BEADING

006-01-008

(256-8003)

0.13 Kg/M

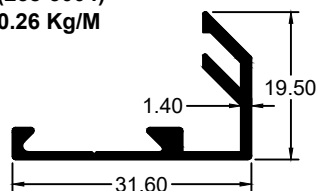


BUTTERFLY

006-01-007

(258-3004)

0.26 Kg/M



BUTTERFLY

006-01-009

(219-0413)

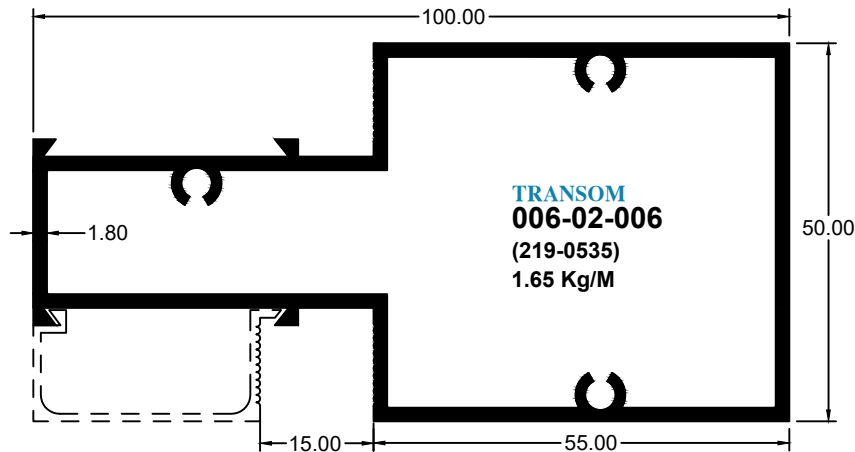
0.15 Kg/M



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HAD 100 PARTITION SERIES

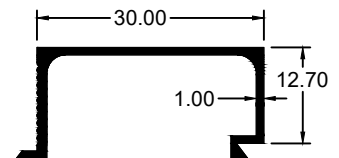


SINGLE GLAZE BEADING

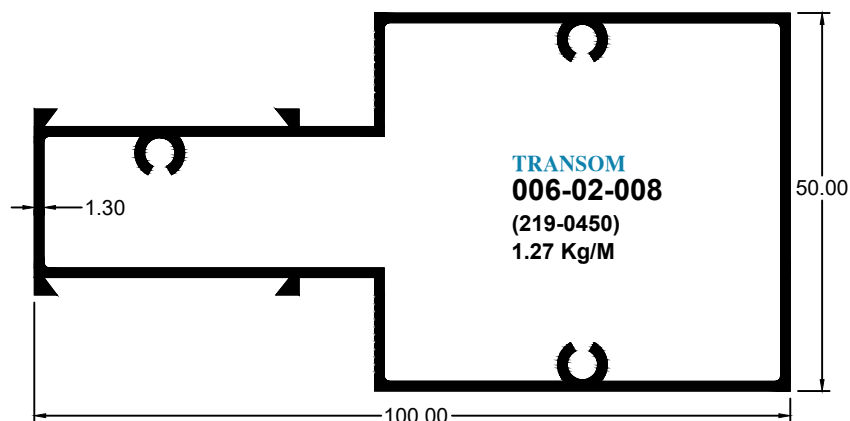
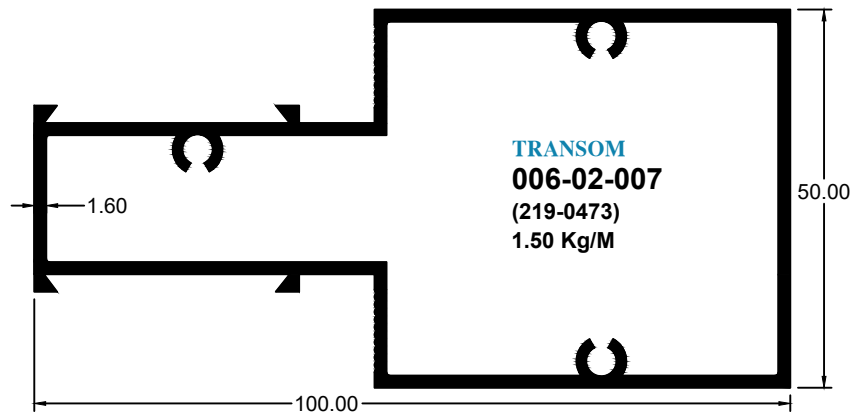
006-02-009

(219-0460)

0.20 Kg/M



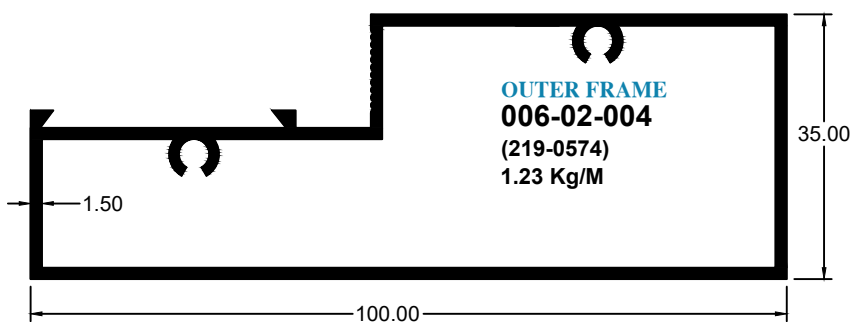
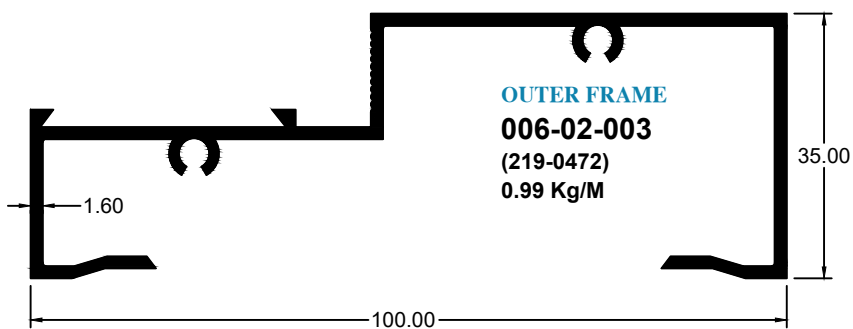
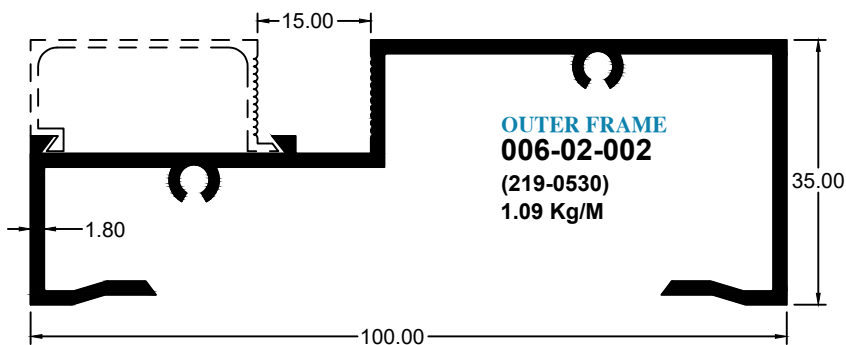
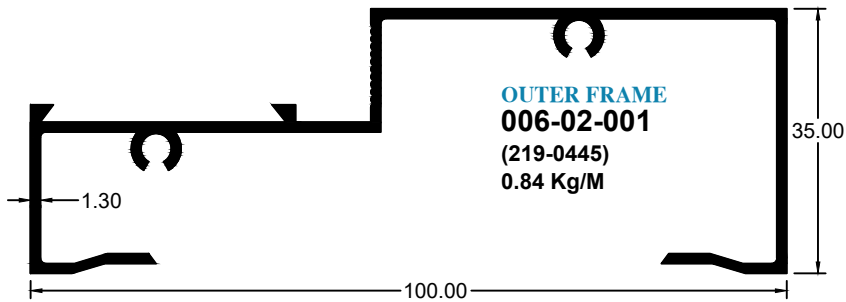
For glass size (6 - 10) mm
(Gasket sizes vary depending on the preferred glass size)



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2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
4. All rights to modify or improve the products are reserved to HAL. HAL reserves the right to make changes or modifications without prior notice.

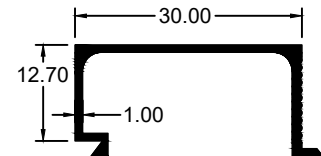


HAD 100 PARTITION SERIES

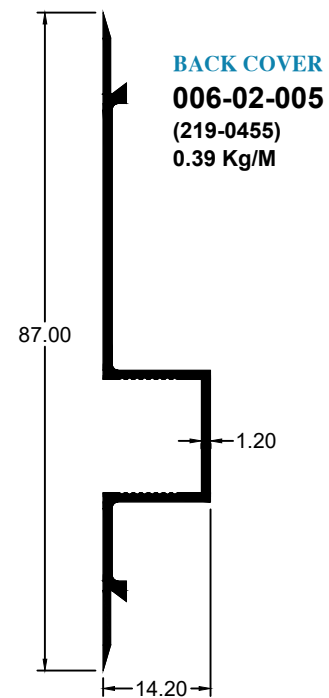


SINGLE GLAZE BEADING

006-02-009
(219-0460)
0.20 Kg/M



For glass size (6 - 10) mm
(Gasket sizes vary depending
on the preferred glass size)



1. All dimensions are in mm
2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
4. All rights to modify or improve the products are reserved to HAL. HAL reserves the right to make changes or modifications without prior notice.



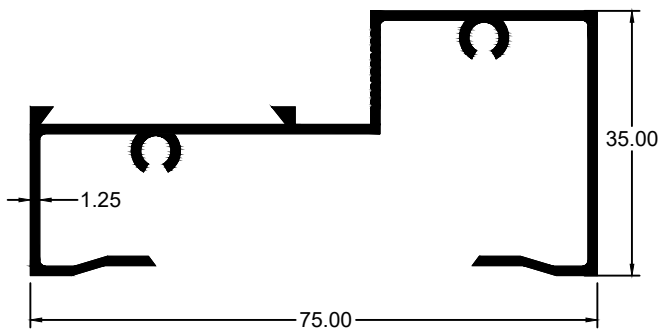
HAD 75 PARTITION SERIES

OUTER FRAME

006-03-001

(219-0430)

0.72 Kg/M

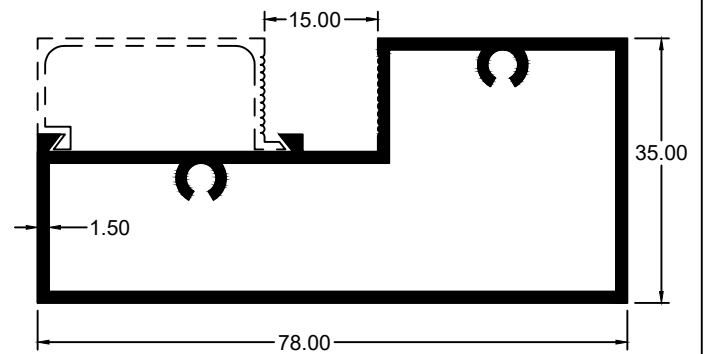


OUTER FRAME

006-03-002

(219-0474)

1.04 Kg/M

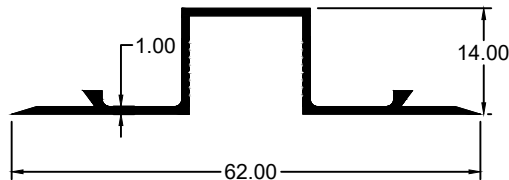


BACK COVER

006-03-003

(219-0440)

0.26 Kg/M

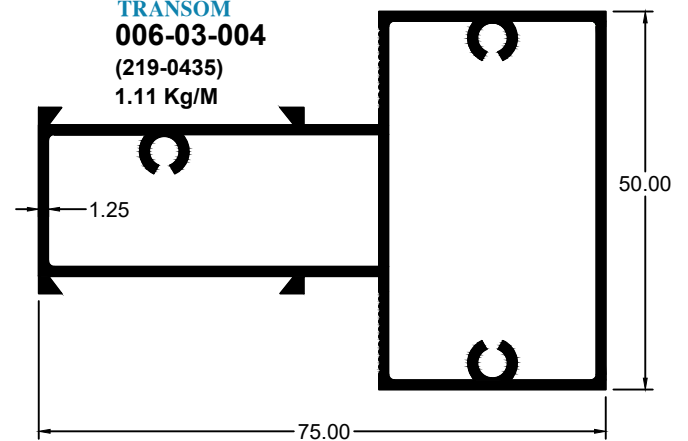


TRANSOM

006-03-004

(219-0435)

1.11 Kg/M

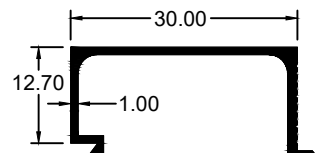


SINGLE GLAZE BEADING

006-02-009

(219-0460)

0.20 Kg/M

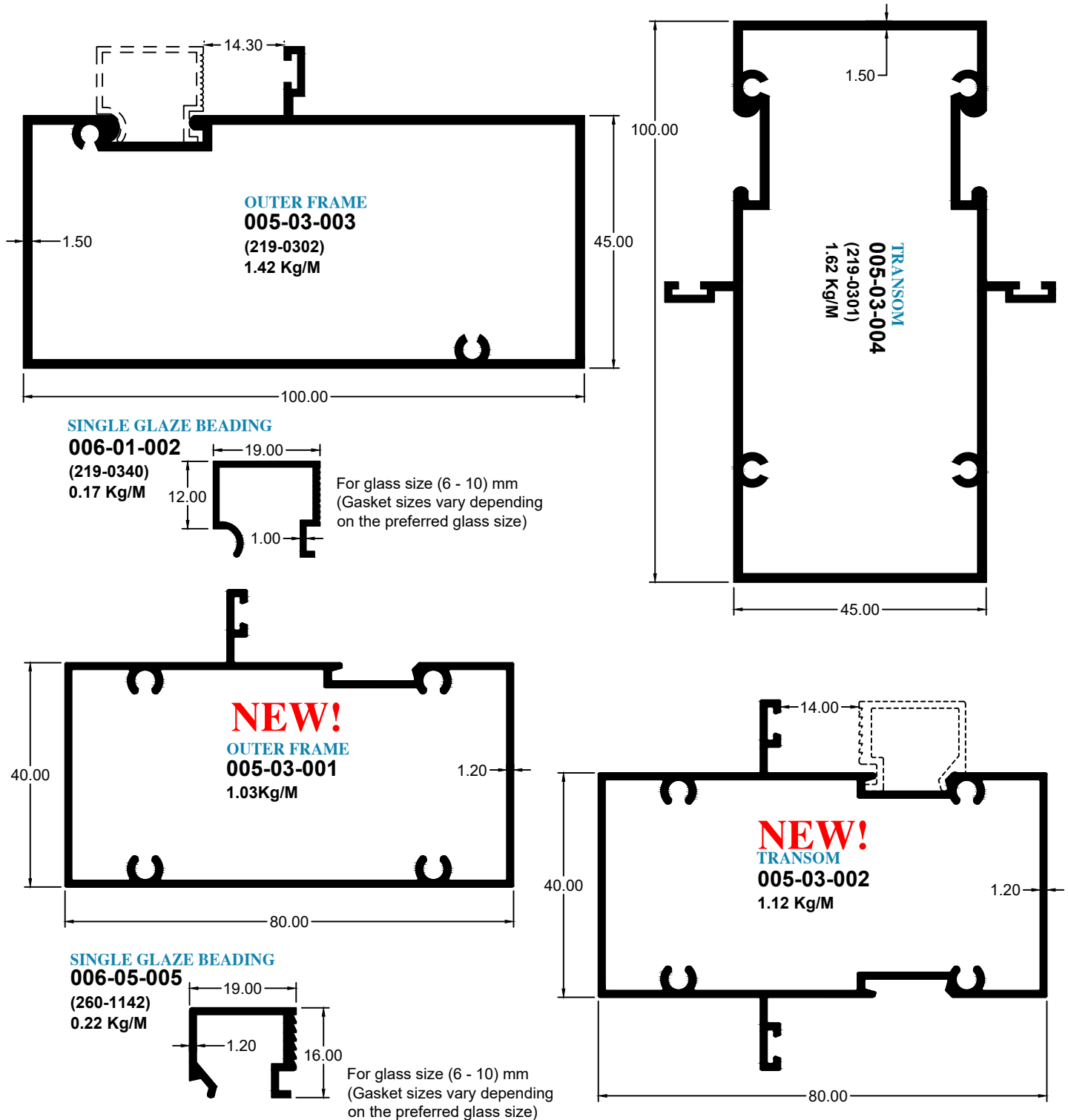


For glass size (6 - 10) mm
(Gasket sizes vary depending
on the preferred glass size)

1. All dimensions are in mm
2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
4. All rights to modify or improve the products are reserved to HAL. HAL reserves the right to make changes or modifications without prior notice.



HAD PARTITION SERIES **NEW!**



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2. The weight shared is for Mill finish
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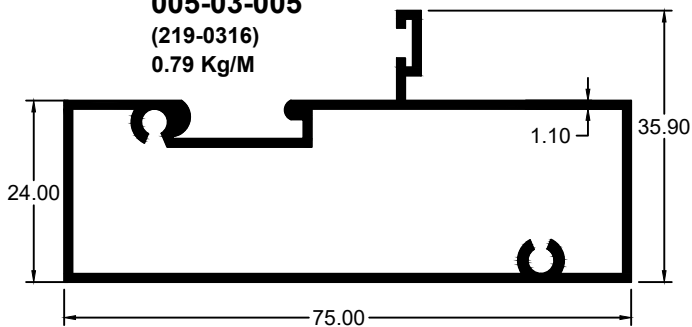
HAD PARTITION SERIES

OUTER FRAME

005-03-005

(219-0316)

0.79 Kg/M

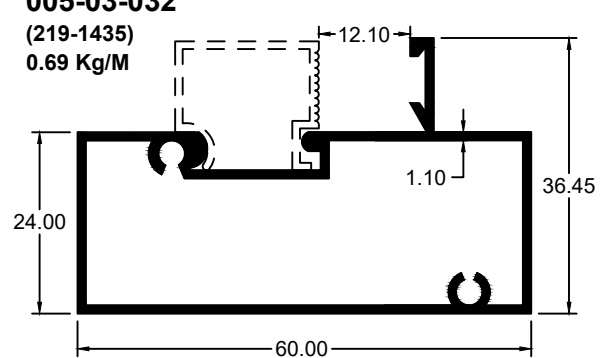


OUTER FRAME

005-03-032

(219-1435)

0.69 Kg/M

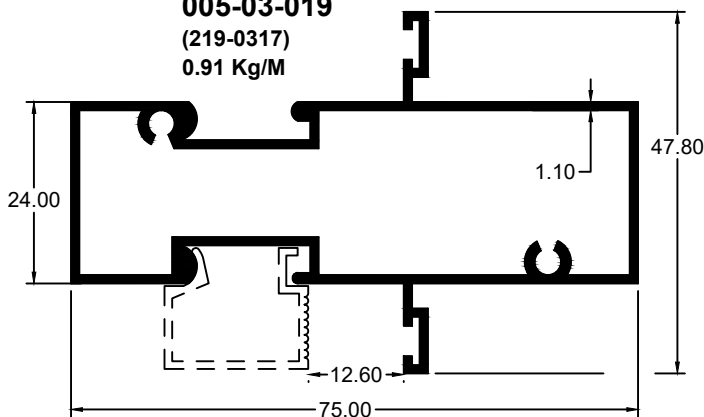


TRANSOM

005-03-019

(219-0317)

0.91 Kg/M

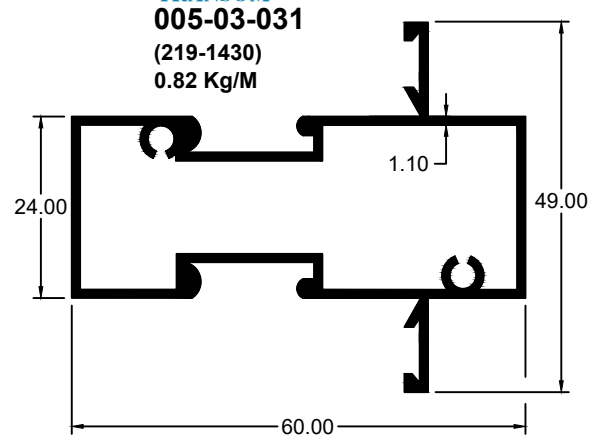


TRANSOM

005-03-031

(219-1430)

0.82 Kg/M

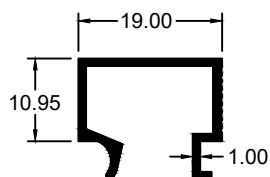


SINGLE GLAZE BEADING

005-03-020

(219-0318)

0.17 Kg/M



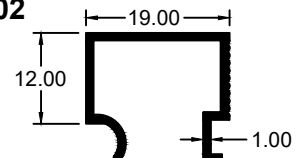
For glass size (4 - 8) mm
(Gasket sizes vary depending
on the preferred glass size)

SINGLE GLAZE BEADING

006-01-002

(219-0340)

0.17 Kg/M



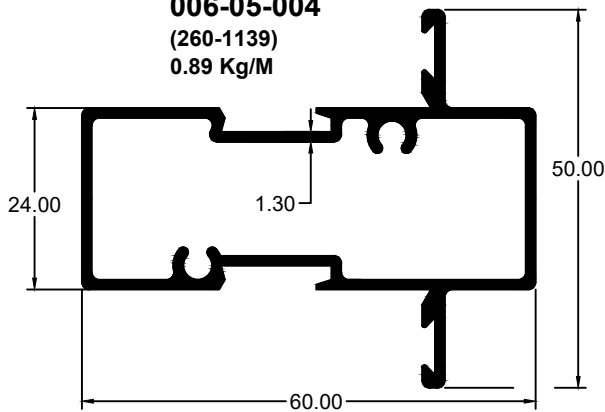
For glass size (4 - 8) mm
(Gasket sizes vary depending
on the preferred glass size)

1. All dimensions are in mm
2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
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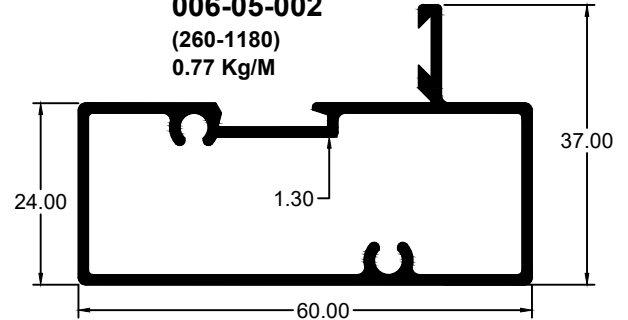


FIXED PARTITION SERIES

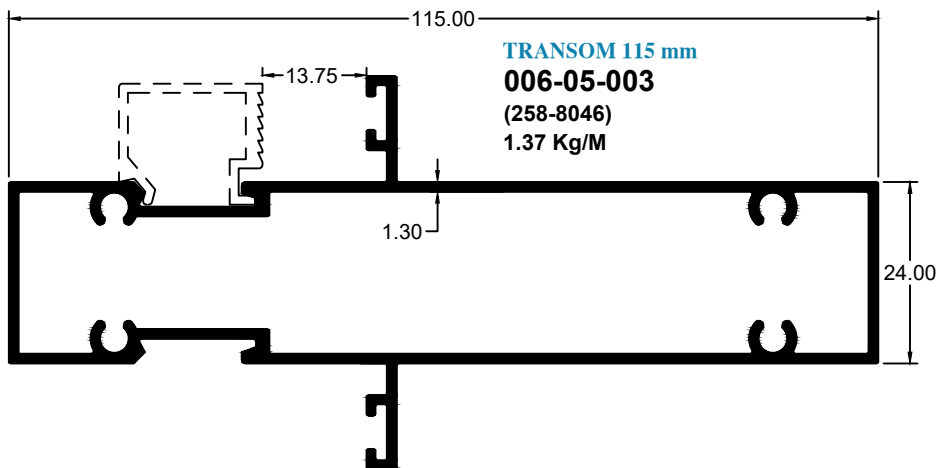
TRANSOM 60 mm
006-05-004
(260-1139)
0.89 Kg/M



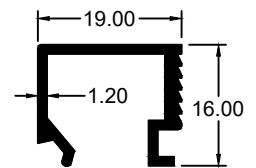
OUTER FRAME 60 mm
006-05-002
(260-1180)
0.77 Kg/M



TRANSOM 115 mm
006-05-003
(258-8046)
1.37 Kg/M

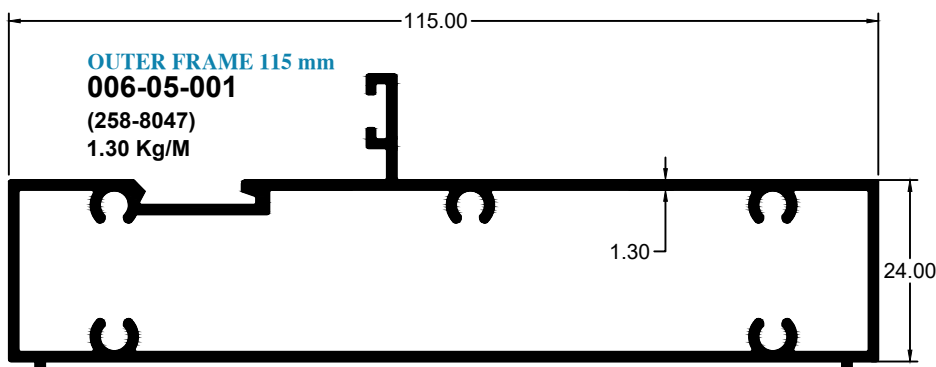


SINGLE GLAZE BEADING
006-05-005
(260-1142)
0.22 Kg/M



For glass size (6 - 10) mm
(Gasket sizes vary depending
on the preferred glass size)

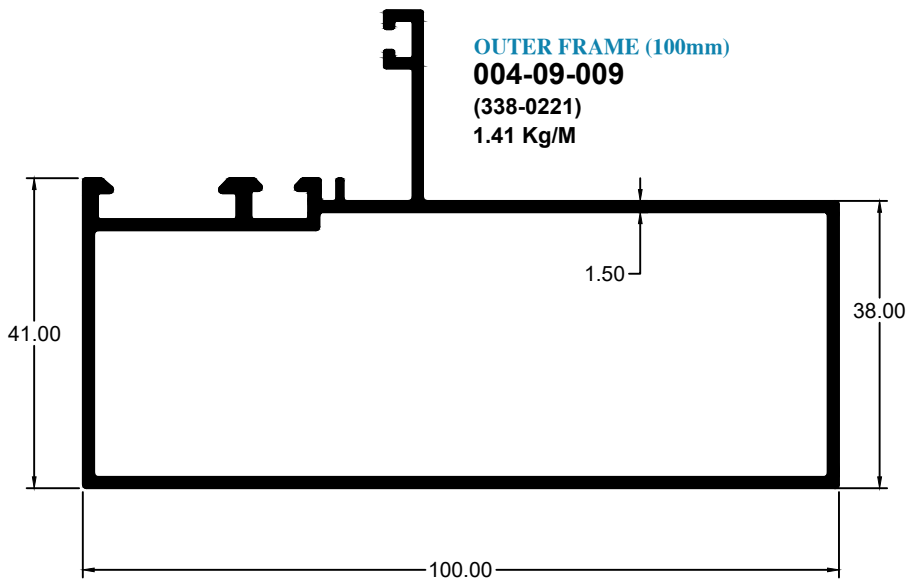
OUTER FRAME 115 mm
006-05-001
(258-8047)
1.30 Kg/M



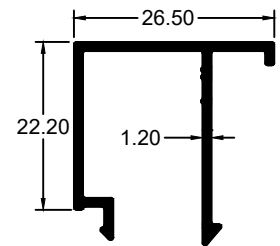
1. All dimensions are in mm
2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
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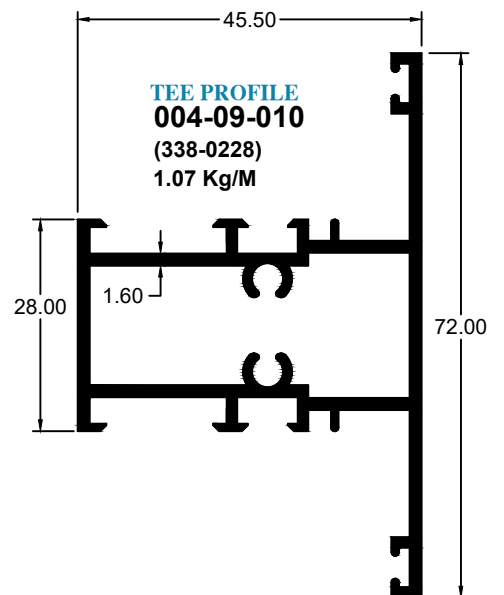
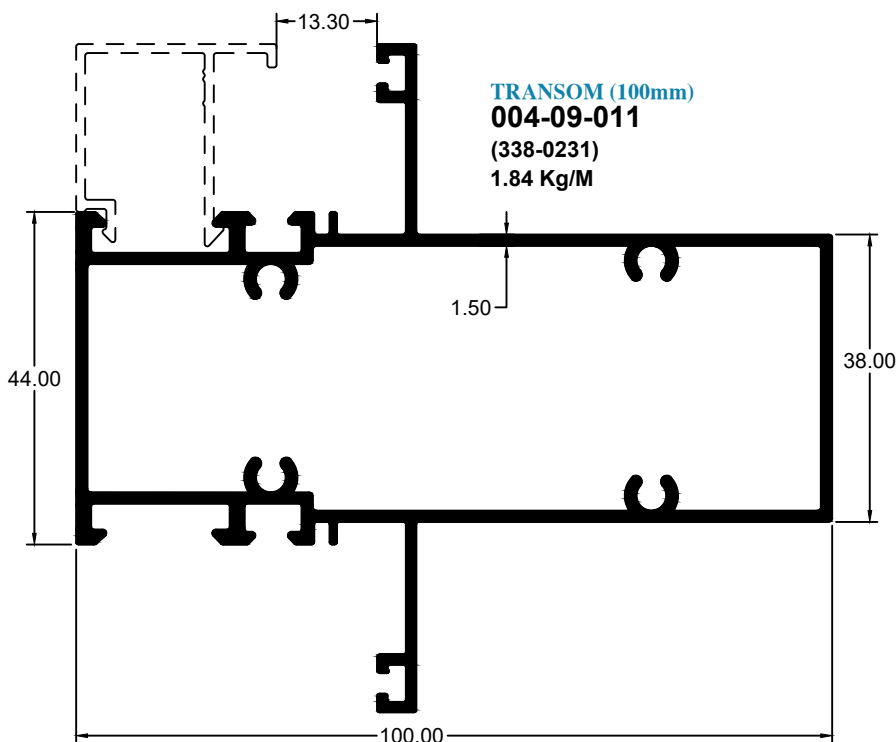
FIXED 100 PARTITION SERIES



SINGLE GLAZE BEADING
004-09-001
 (338-0110)
 0.29 Kg/M



For glass size (4 - 8) mm
 (Gasket sizes vary depending
 on the preferred glass size)



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HAD DOUBLE BEADING PARTITION SERIES

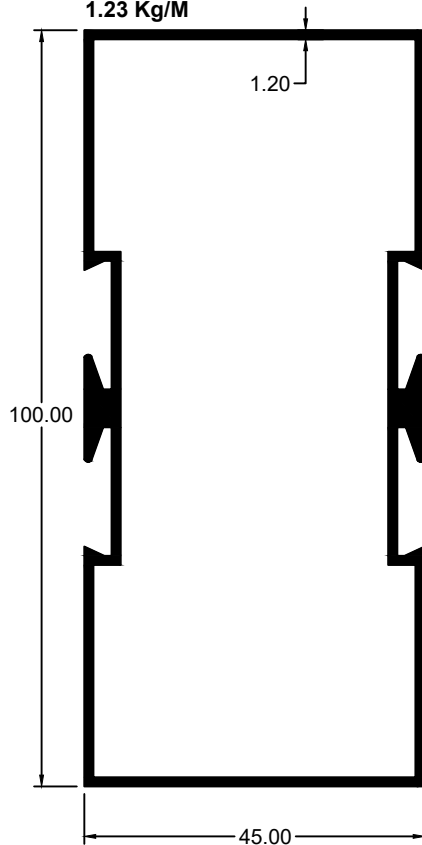
DOUBLE BEADING PARTITION

100 mm

006-07-004

(219-0415)

1.23 Kg/M



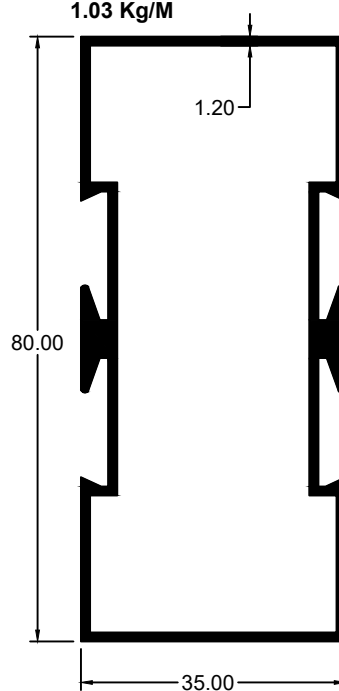
DOUBLE BEADING PARTITION

80 mm

006-07-005

(219-0420)

1.03 Kg/M



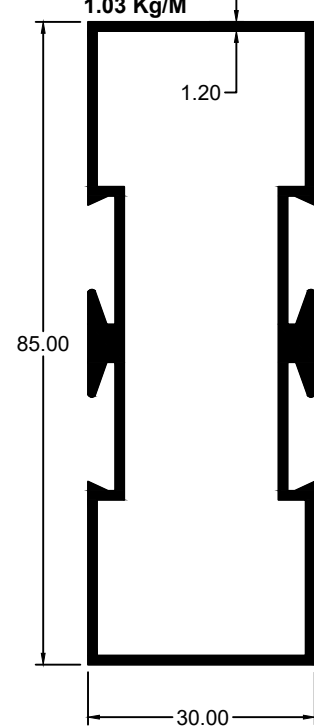
DOUBLE BEADING PARTITION

85 mm

006-07-006

(219-0425)

1.03 Kg/M

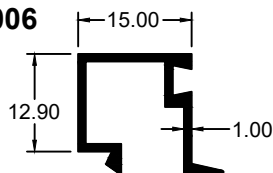


SINGLE GLAZE BEADING

006-01-006

(215-8045)

0.18 Kg/M



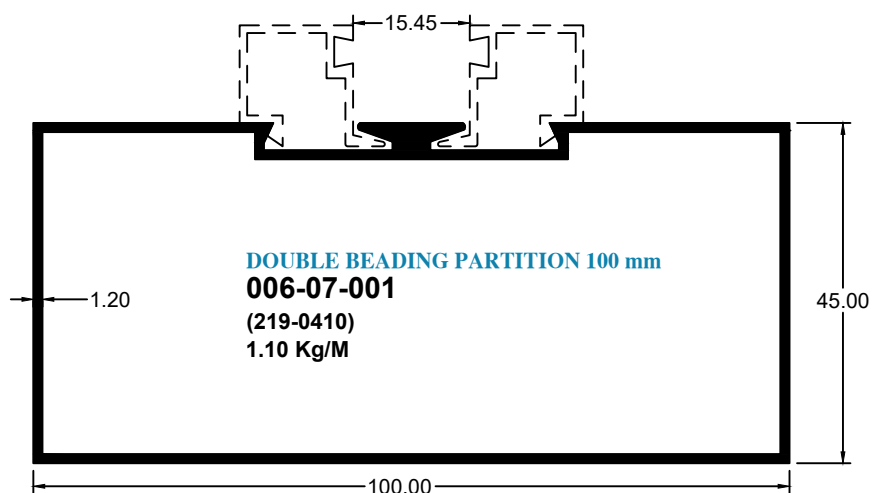
For glass size (4 - 10) mm
(Gasket sizes vary depending
on the preferred glass size)

DOUBLE BEADING PARTITION 100 mm

006-07-001

(219-0410)

1.10 Kg/M



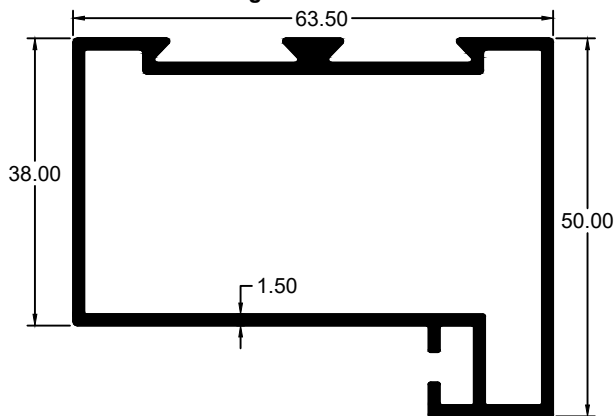
1. All dimensions are in mm
2. The weight shared is for Mill finish
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63 DOUBLE BEADING PARTITION

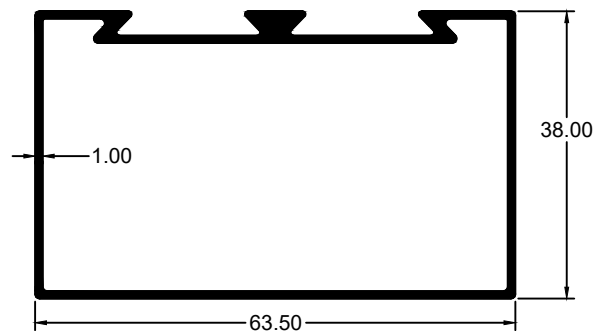
DOUBLE BEADING WITH DOOR PARTITION 63.5 mm

006-08-002
(256-8007)
1.10 Kg/M



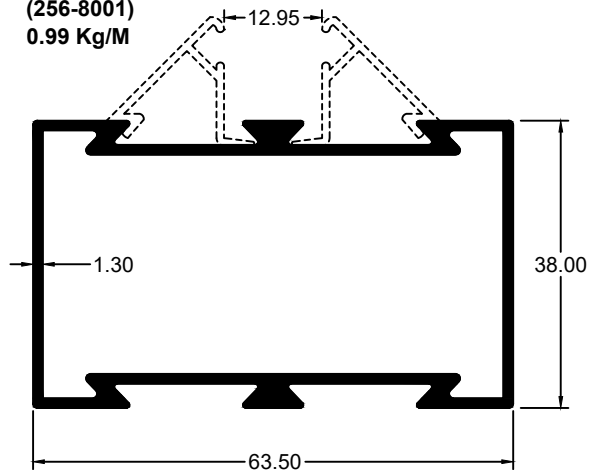
DOUBLE BEADING OUTER PARTITION 63.5 mm

006-08-001
(256-8008)
0.68 Kg/M



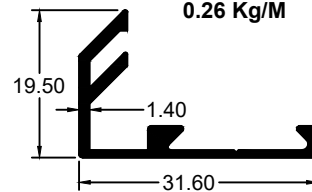
DOUBLE BEADINGTRANSOM PARTITION 63.5 mm

006-08-003
(256-8001)
0.99 Kg/M



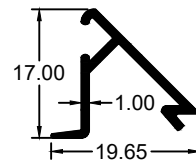
BUTTERFLY

006-01-007
(258-3004)
0.26 Kg/M



SINGLE GLAZE BEADING

006-01-008
(256-8003)
0.13 Kg/M

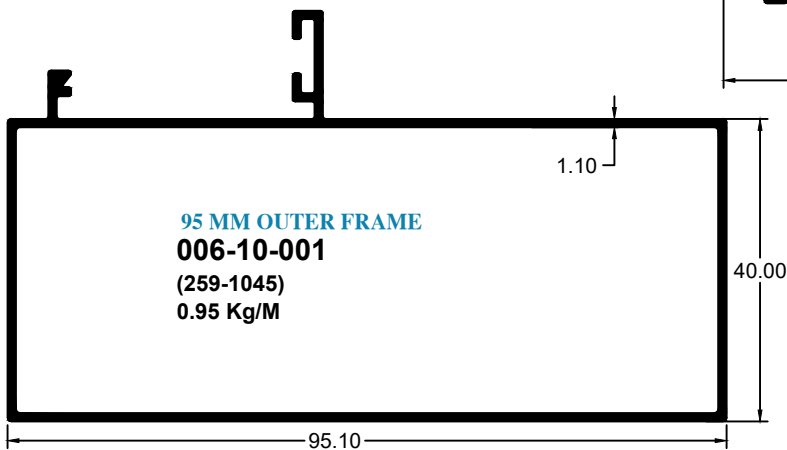
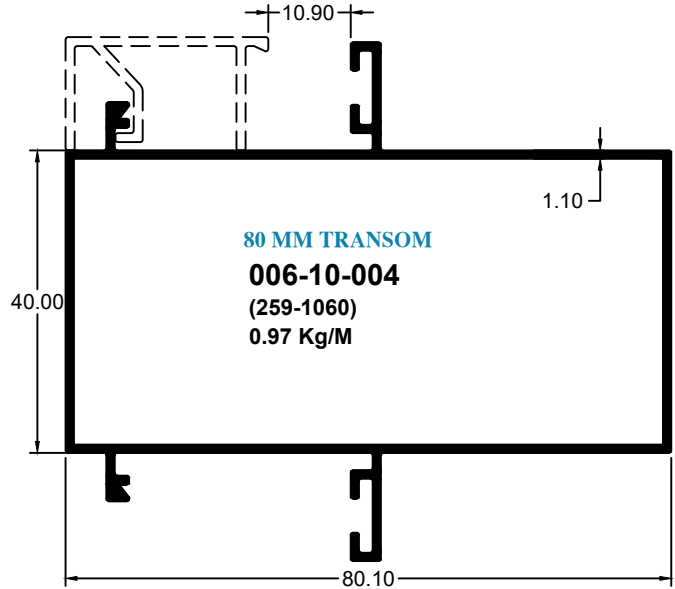
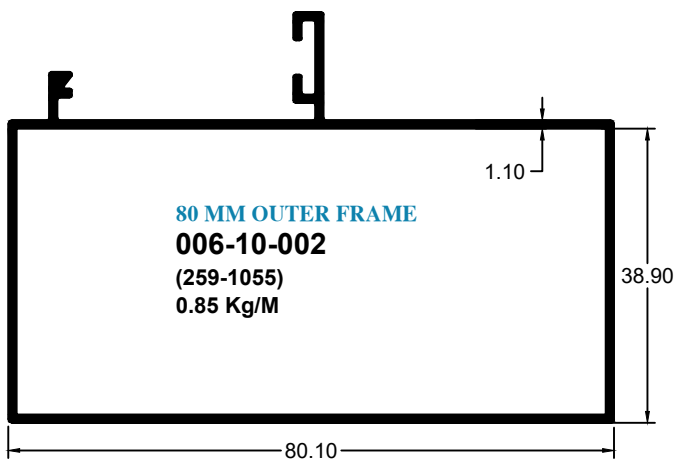


For glass size (4 - 8) mm
(Gasket sizes vary depending
on the preferred glass size)

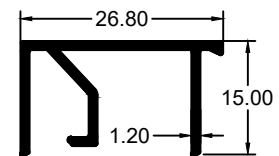
1. All dimensions are in mm
2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
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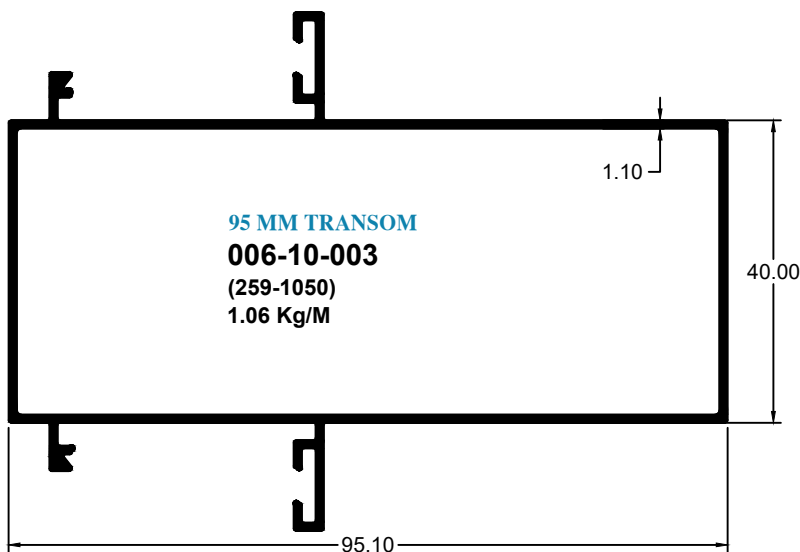
HYD PARTITION SERIES



SINGLE GLAZE BEADING
006-10-005
 (259-1065)
 0.25 Kg/M



For glass size (4 - 6) mm
 (Gasket sizes vary depending
 on the preferred glass size)



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2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
4. All rights to modify or improve the products are reserved to HAL. HAL reserves the right to make changes or modifications without prior notice.

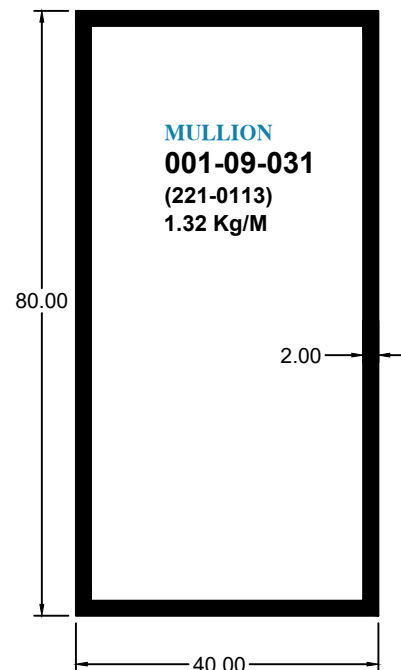
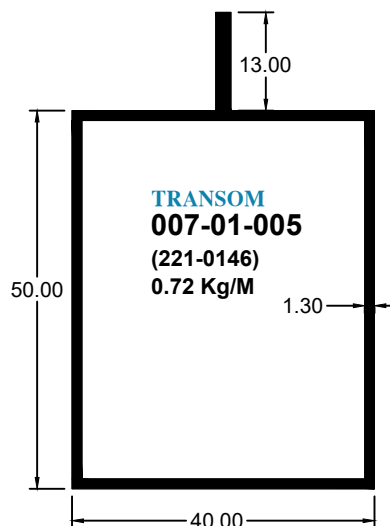
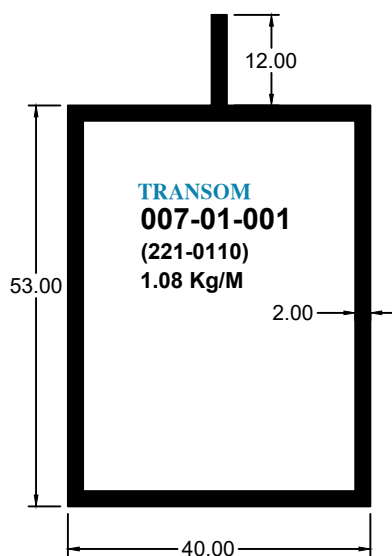
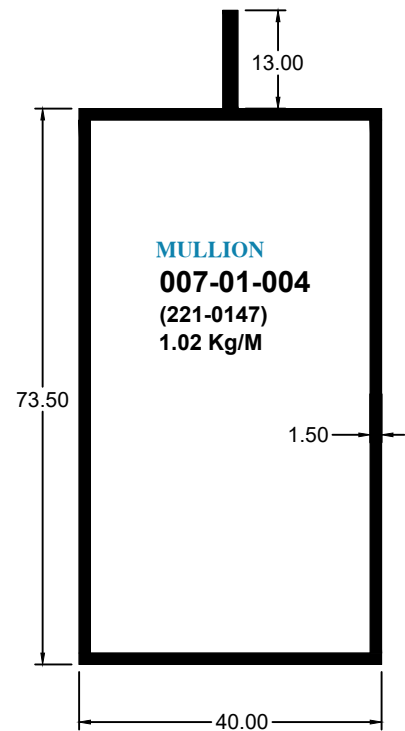
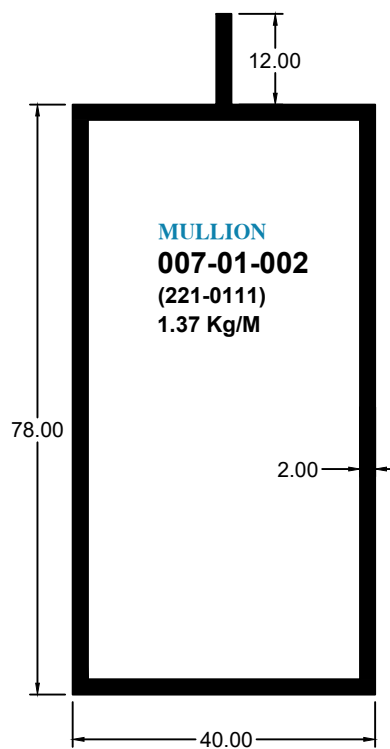
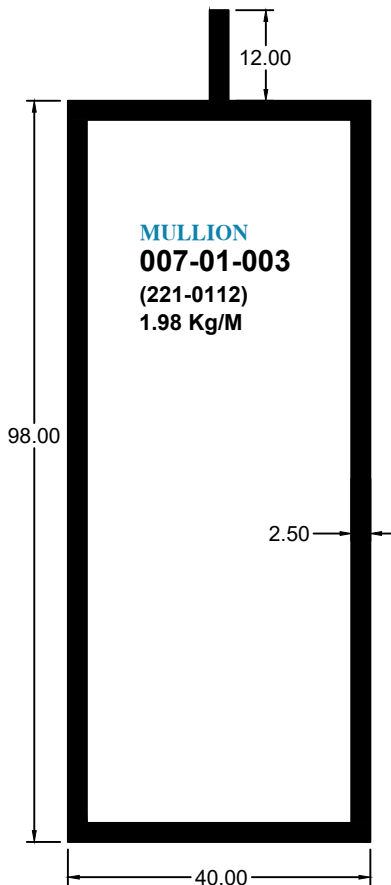


FACADES

CURTAIN WALLING



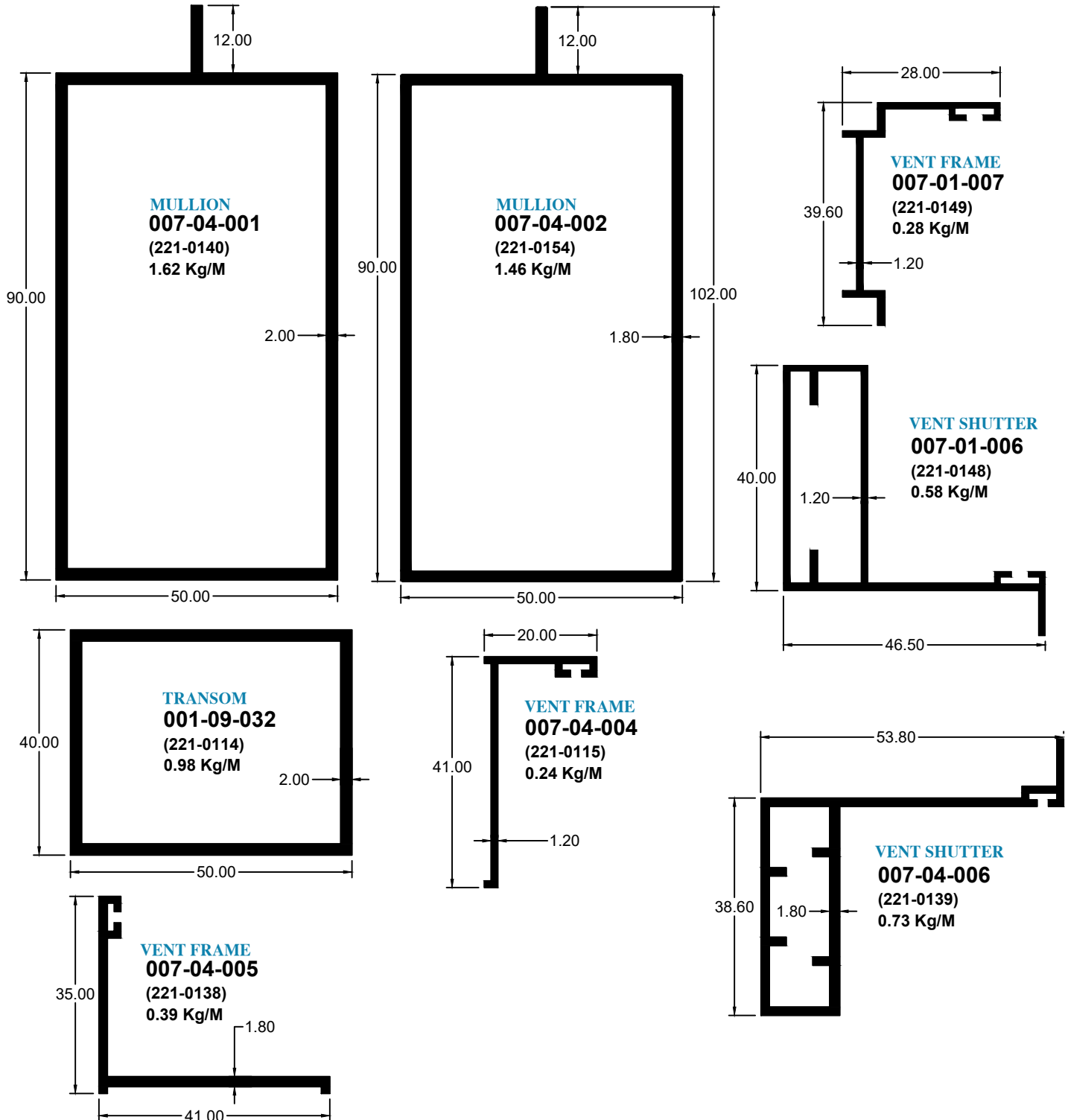
FACADE 40 SERIES



1. All dimensions are in mm
2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
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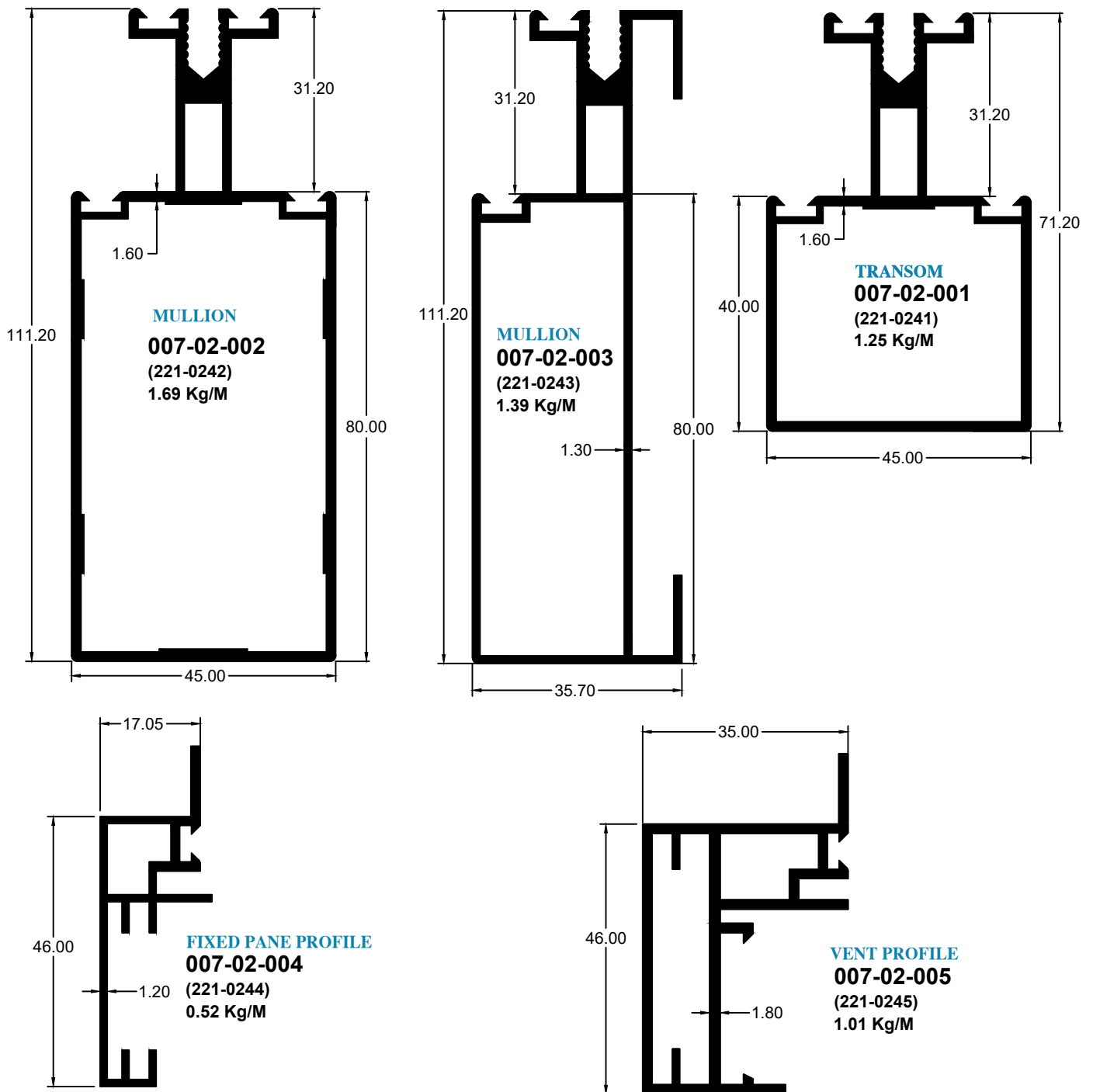
FACADE 40 SERIES



1. All dimensions are in mm
2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
4. All rights to modify or improve the products are reserved to HAL. HAL reserves the right to make changes or modifications without prior notice.



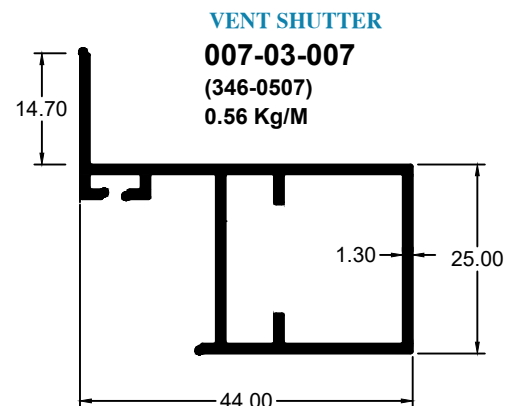
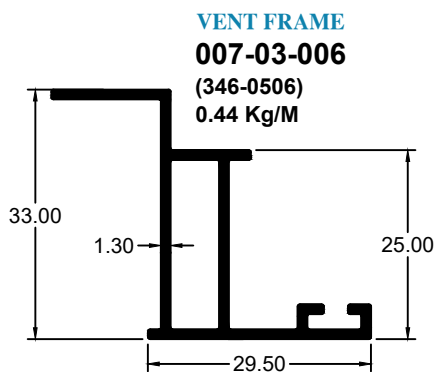
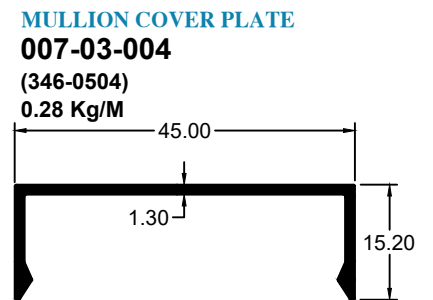
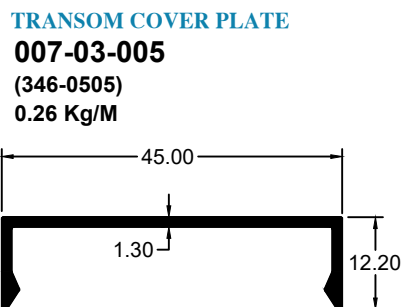
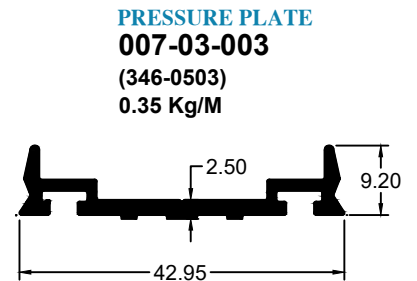
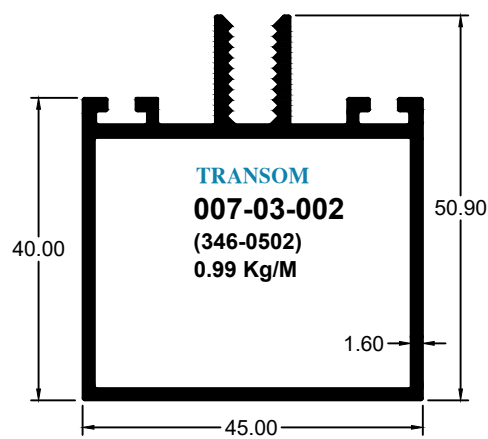
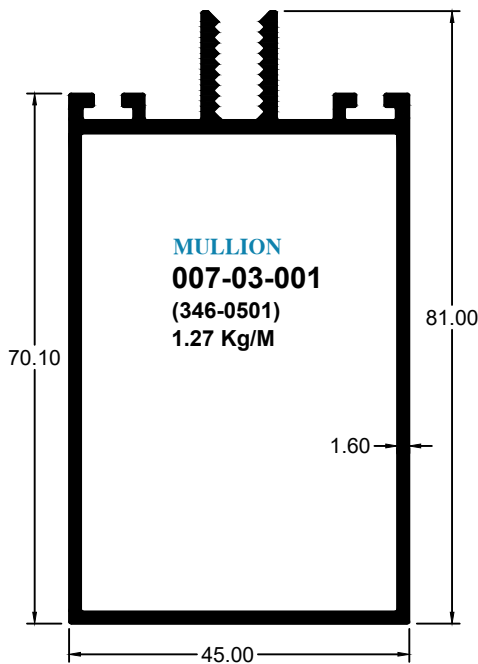
FLUSH-GLAZING 45 SERIES



1. All dimensions are in mm
2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
4. All rights to modify or improve the products are reserved to HAL. HAL reserves the right to make changes or modifications without prior notice.



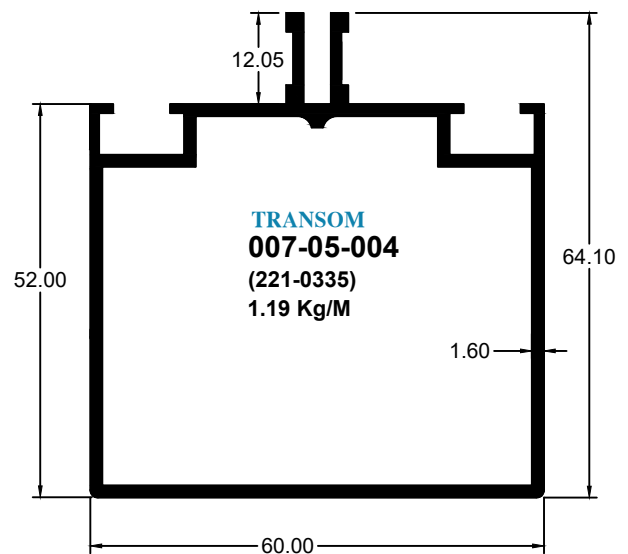
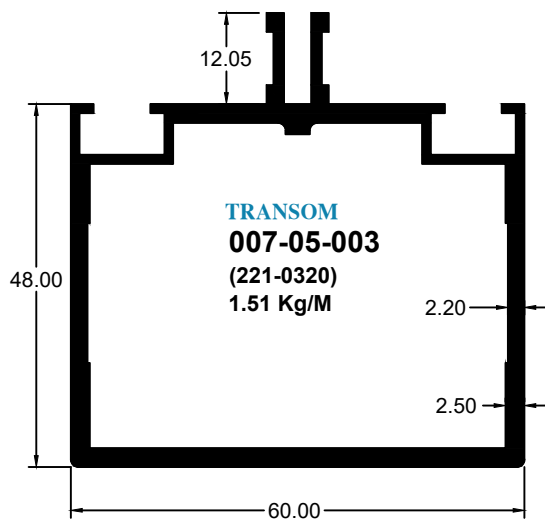
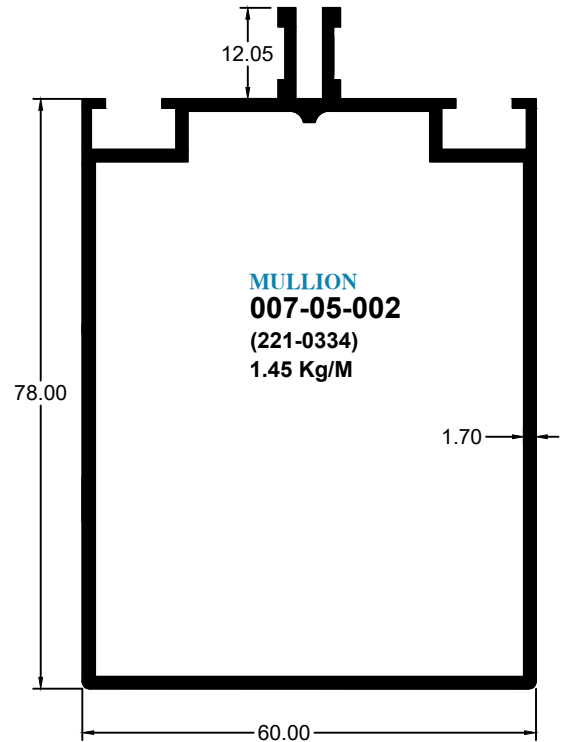
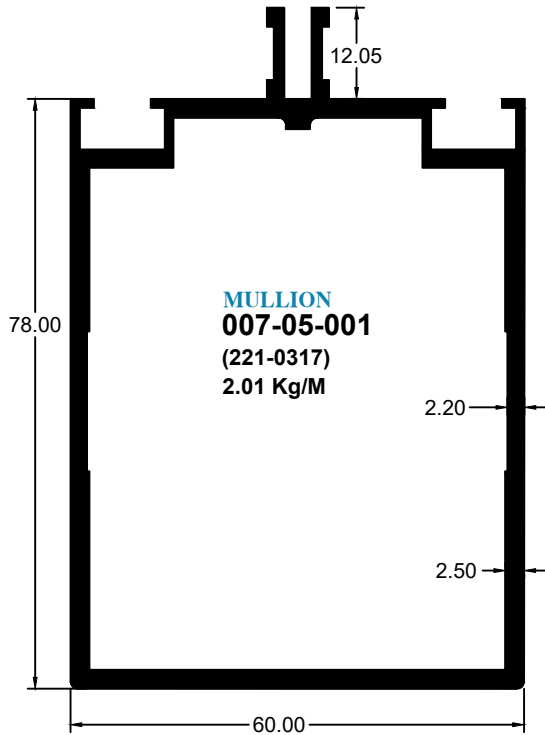
FACADE 45 SERIES



1. All dimensions are in mm
2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
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FACADE 60 SERIES

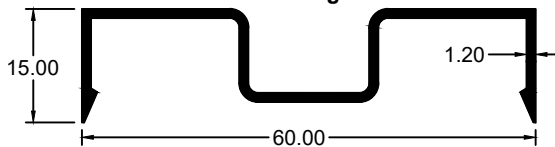


1. All dimensions are in mm
2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
4. All rights to modify or improve the products are reserved to HAL. HAL reserves the right to make changes or modifications without prior notice.

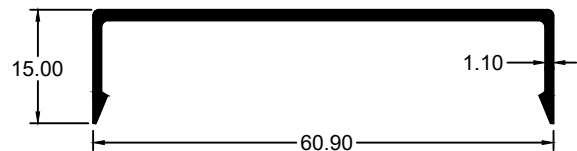


FACADE 60 SERIES

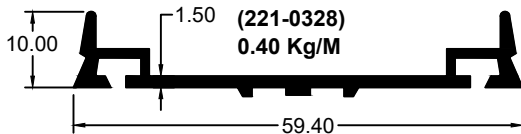
COVER PLATE
007-05-005
(221-0325)
0.37 Kg/M



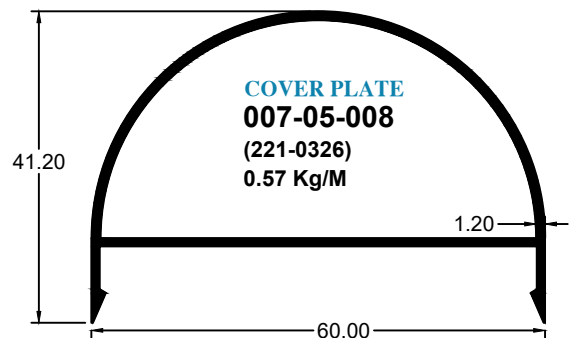
COVER PLATE
007-05-006
(221-0329)
0.33 Kg/M



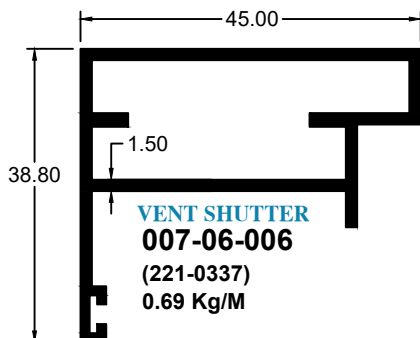
PRESSURE PLATE
007-05-007
(221-0328)
0.40 Kg/M



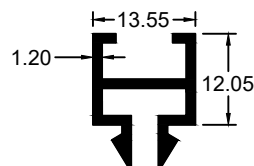
COVER PLATE
007-05-008
(221-0326)
0.57 Kg/M



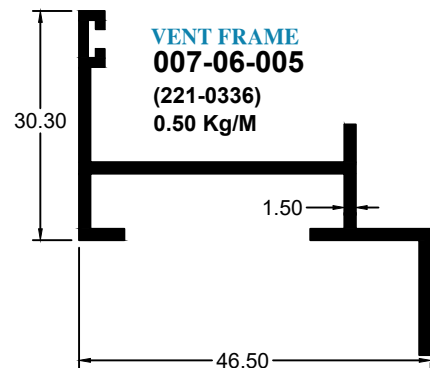
VENT SHUTTER
007-06-006
(221-0337)
0.69 Kg/M



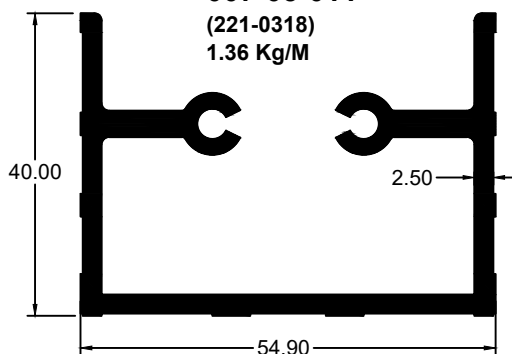
SPACER
007-05-009
(221-0331)
0.21 Kg/M



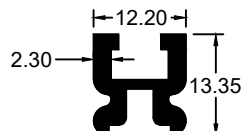
VENT FRAME
007-06-005
(221-0336)
0.50 Kg/M



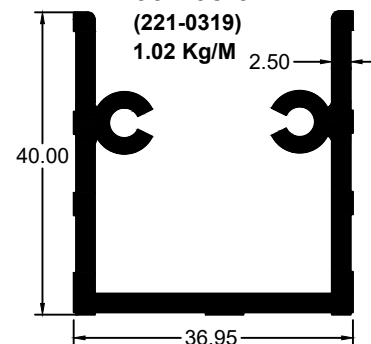
JOINING BRACKET
007-05-011
(221-0318)
1.36 Kg/M



SPACER
007-05-010
(221-0330)
0.23 Kg/M



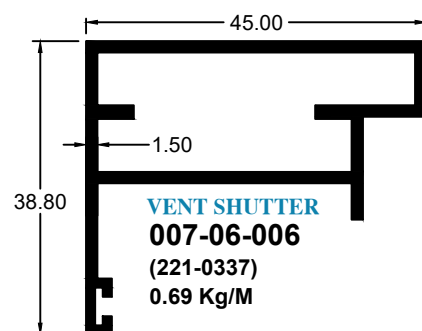
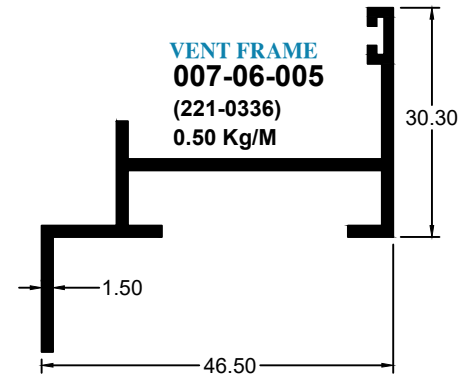
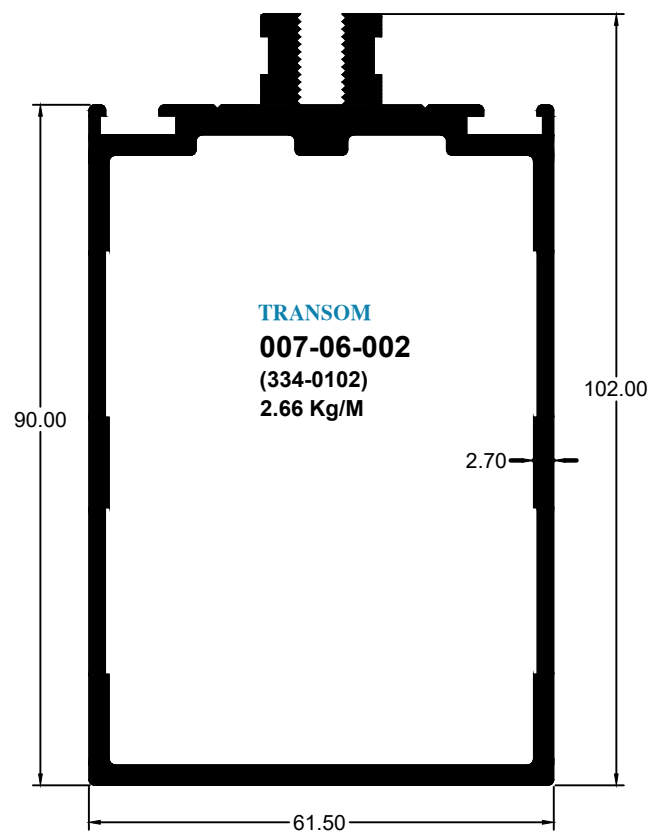
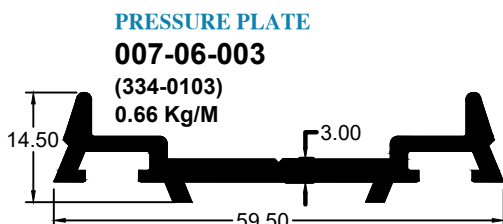
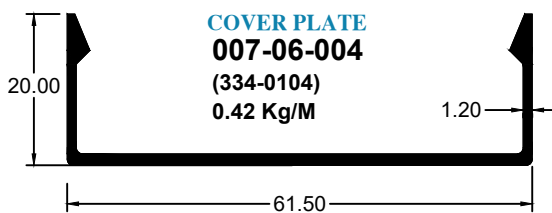
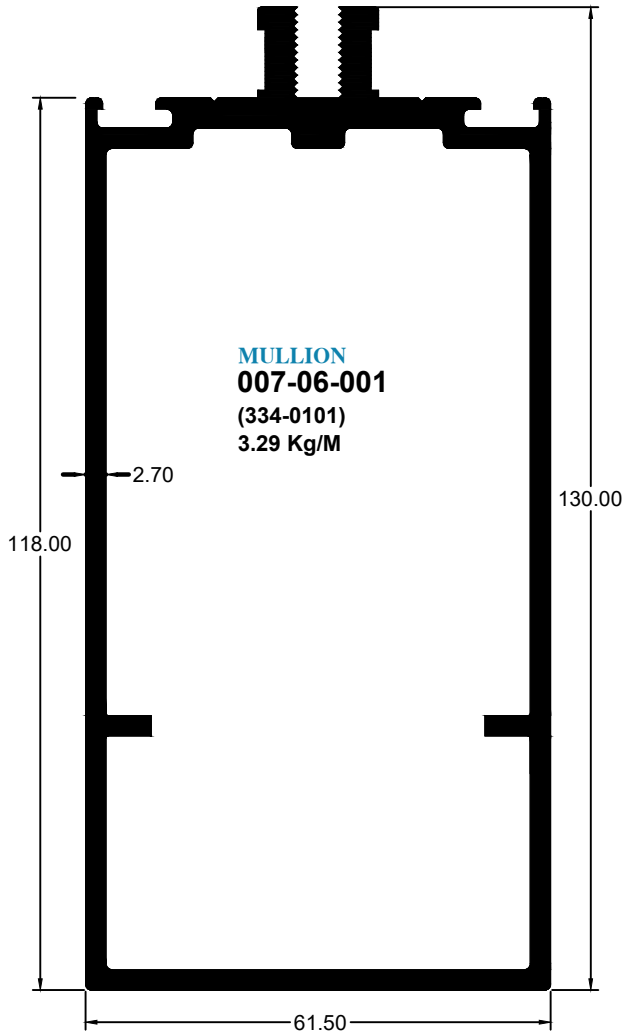
JOINING BRACKET
007-05-012
(221-0319)
1.02 Kg/M



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2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
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FACADE 60 DELUXE SERIES



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2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
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LADDERS

AUTOMOTIVE

LOUVRES

SUN BREAKERS

ROLLING SHUTTERS

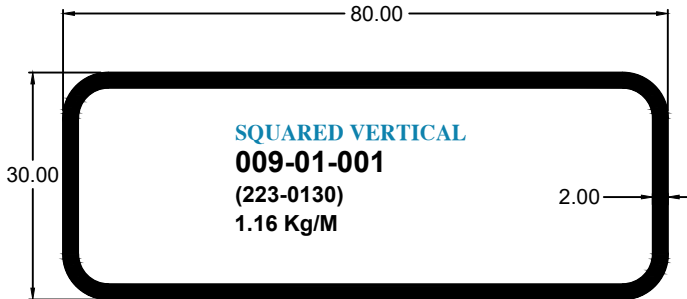
POOL TABLE

BALUSTRADE

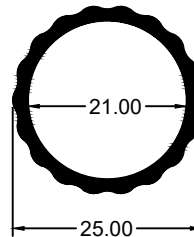
GENERAL PROFILES



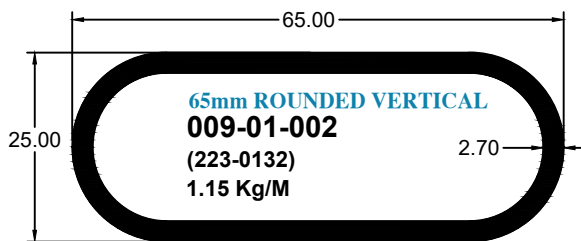
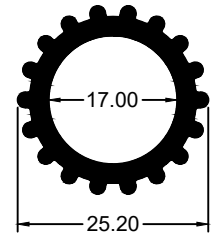
LADDER PROFILES



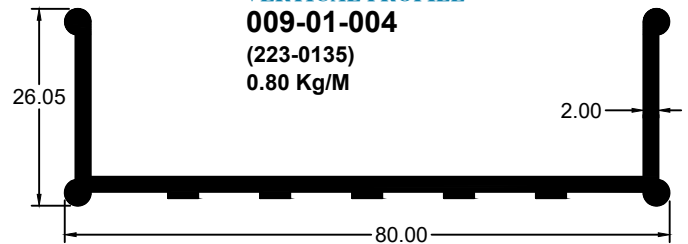
STEPPING ROD
009-02-001
(223-0131)
0.36 Kg/M



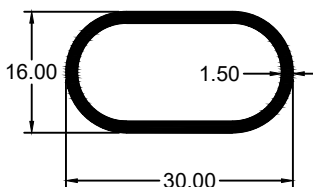
STEPPING ROD
009-02-002
(223-0133)
0.61 Kg/M



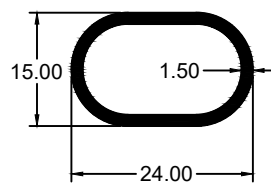
VERTICAL PROFILE
009-01-004
(223-0135)
0.80 Kg/M



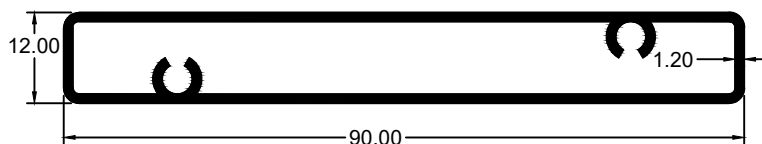
30mm ROUNDED VERTICAL
009-01-003
(223-0134)
0.32 Kg/M



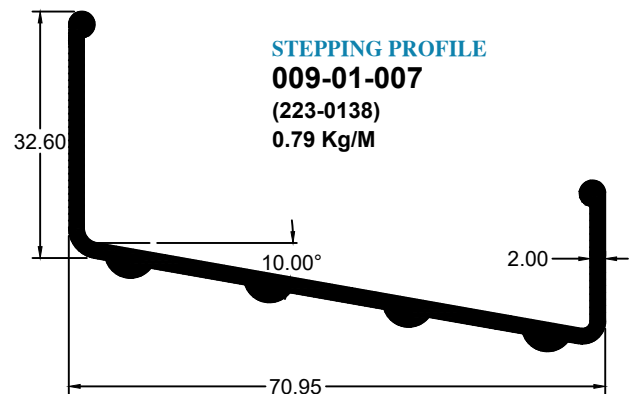
24mm ROUNDED VERTICAL
009-01-005
(223-0136)
0.26 Kg/M



90mm RECTANGULAR PROFILE
009-01-006
(223-0137)
0.74 Kg/M



STEPPING PROFILE
009-01-007
(223-0138)
0.79 Kg/M



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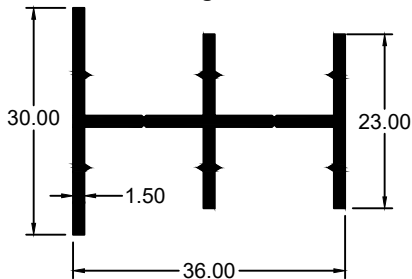
AUTOMOTIVE WINDOW

WINDOW PARTITION

008-02-001

(225-1050)

0.47 Kg/M

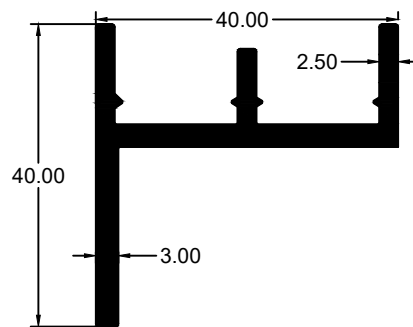


WINDOW FRAME

008-02-003

(225-1052)

0.81 Kg/M

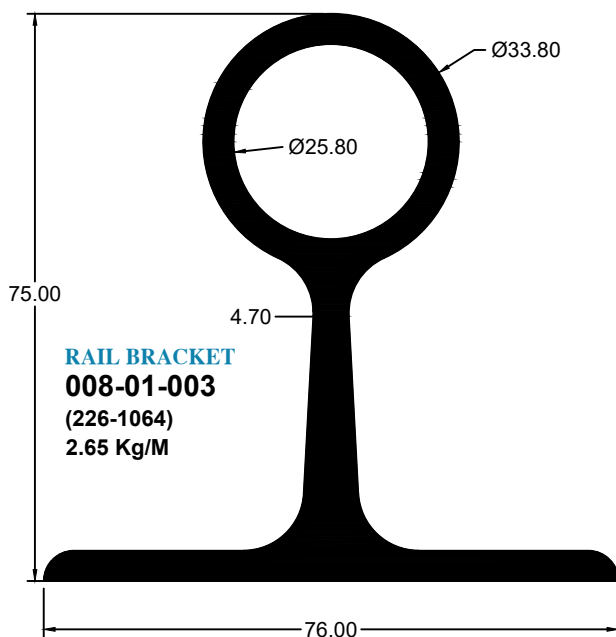
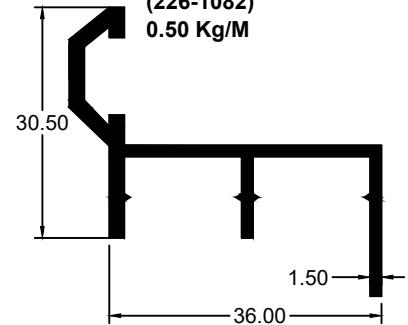


WINDOW FRAME

008-02-018

(226-1082)

0.50 Kg/M



RAIL BRACKET

008-01-003

(226-1064)

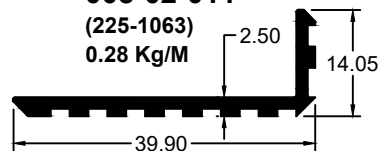
2.65 Kg/M

STEP MOLDING

008-02-011

(225-1063)

0.28 Kg/M



DECORATIVE MOLDING

008-02-015

(226-1073)

0.10 Kg/M

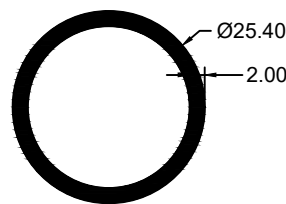


ROUND PROFILE

001-05-021

(225-1060)

0.42 Kg/M

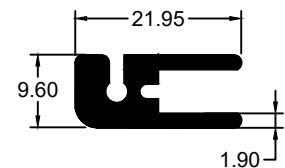


GLASS HOLDER

008-02-006

(225-1056)

0.36 Kg/M

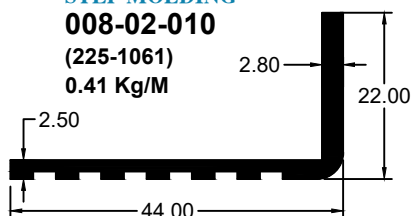


STEP MOLDING

008-02-010

(225-1061)

0.41 Kg/M

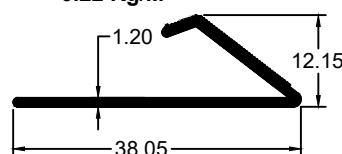


CARPET END

008-02-017

(226-1079)

0.22 Kg/M

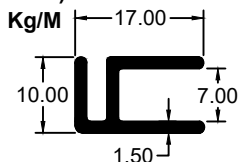


GLASS HOLDER

008-02-012

(225-1085)

0.20 Kg/M



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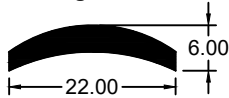
AUTOMOTIVE BODY

CRESCENT MOLDING

008-01-010

(226-1072)

0.20 Kg/M

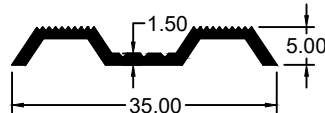


M-MOLDING

008-01-012

(226-1075)

0.17 Kg/M

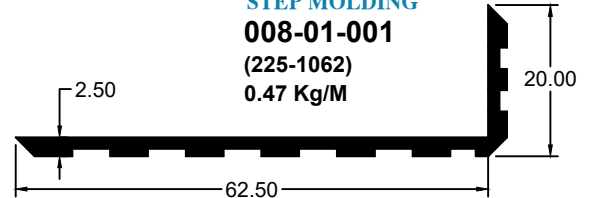


STEP MOLDING

008-01-001

(225-1062)

0.47 Kg/M

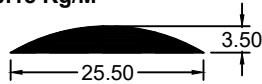


CRESCENT MOLDING

008-01-008

(226-1070)

0.18 Kg/M

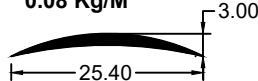


CRESCENT MOLDING

008-01-007

(226-1069)

0.08 Kg/M

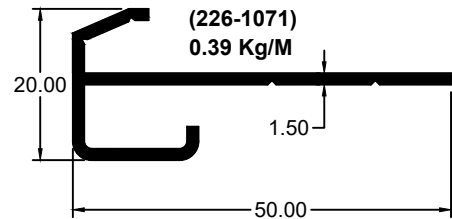


CLADDING PROFILE

008-01-009

(226-1071)

0.39 Kg/M

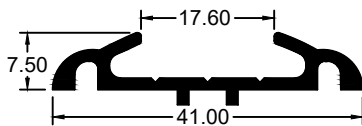


SIDE MOLDING

008-01-013

(226-1076)

0.30 Kg/M

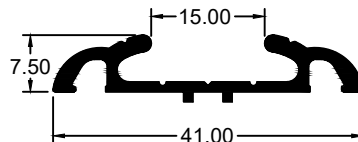


SIDE MOLDING

008-01-016

(226-1086)

0.30 Kg/M

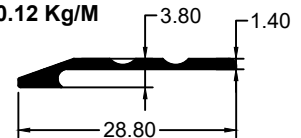


END MOLDING

008-01-015

(226-1084)

0.12 Kg/M

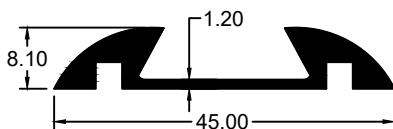


SIDE MOLDING

008-01-014

(226-1083)

0.41 Kg/M

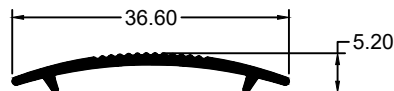


CARPET PROFILE

008-01-017

(226-1087)

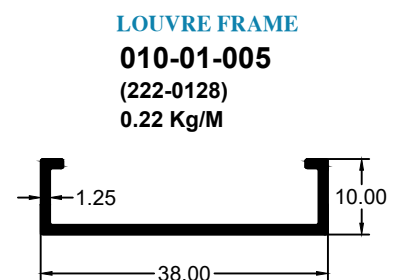
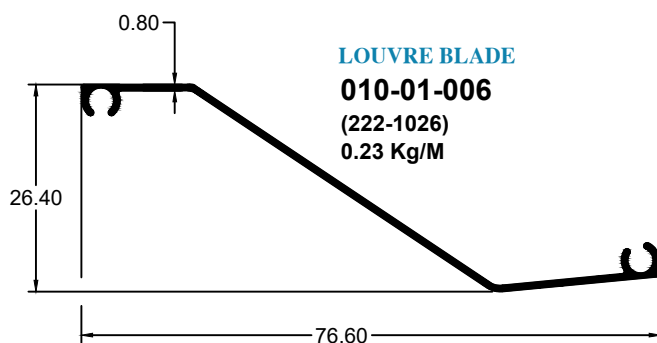
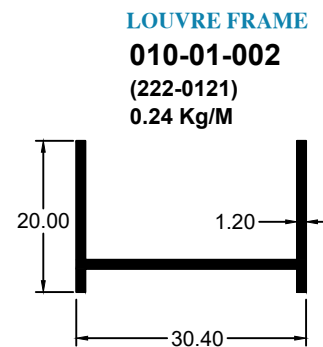
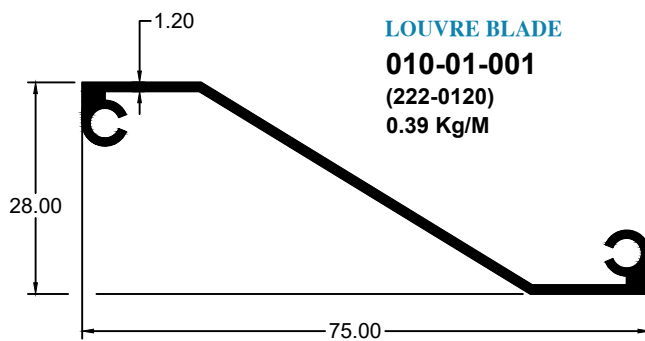
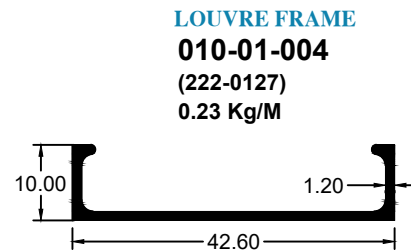
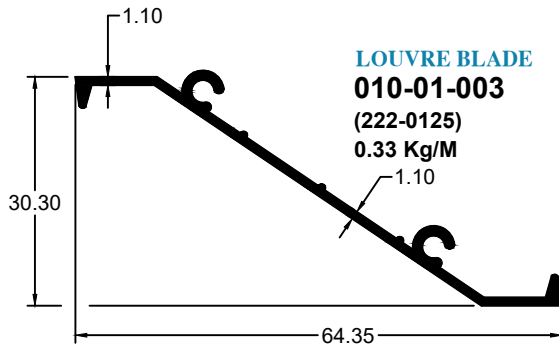
0.15 Kg/M



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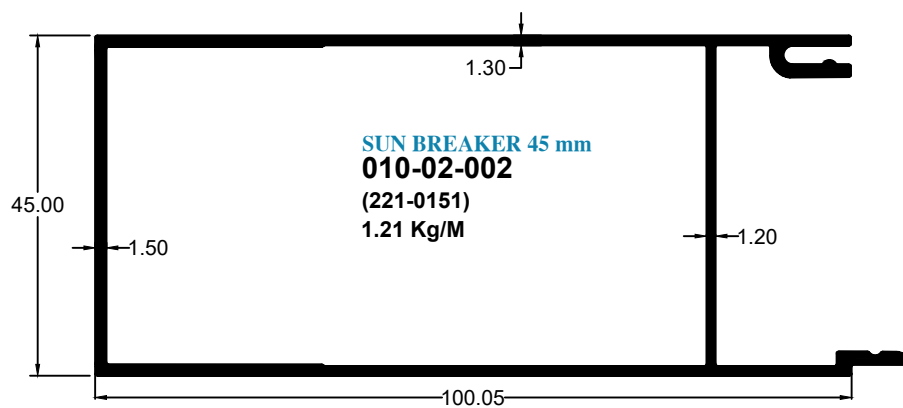
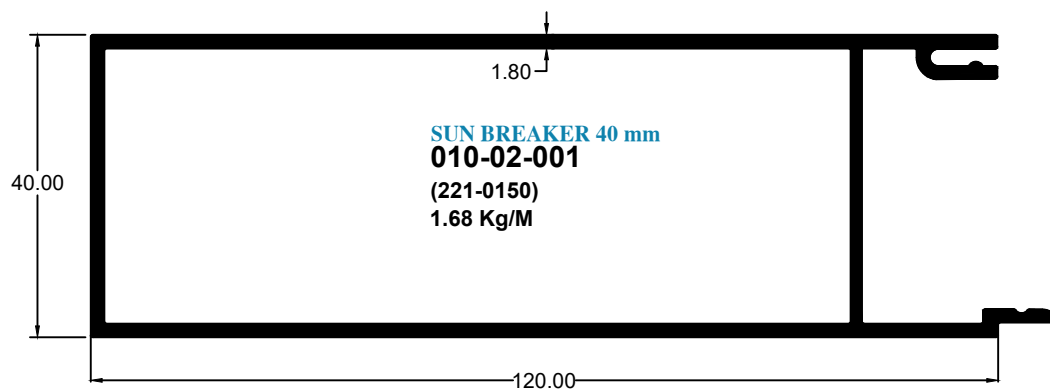
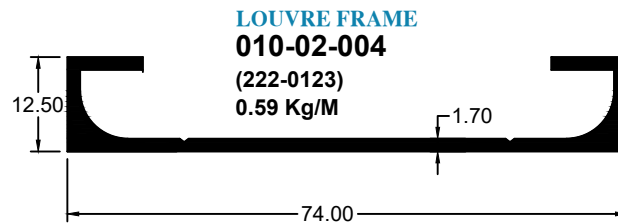
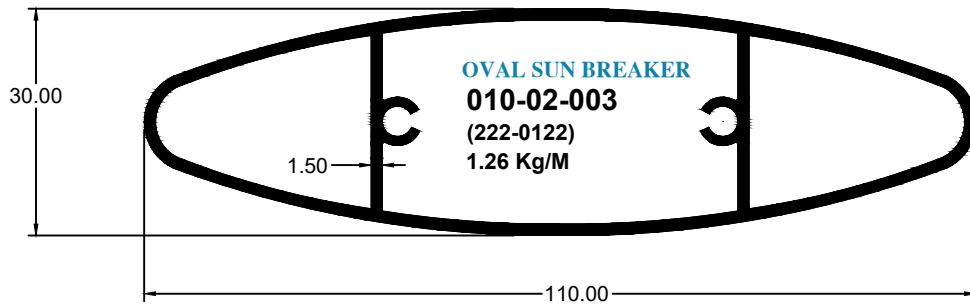
LOUVRE PROFILES



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SUN BREAKER PROFILES



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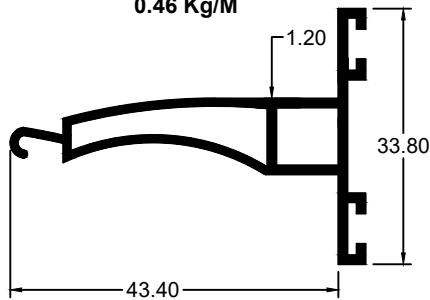
ROLLER SHUTTER PROFILES

SMALL END SLAT

011-01-002

(224-0120)

0.46 Kg/M

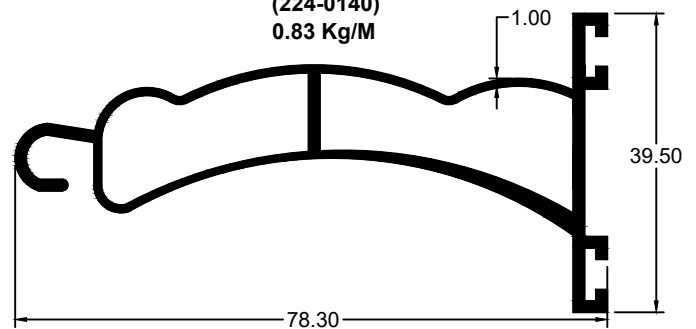


BIG END SLAT

011-01-004

(224-0140)

0.83 Kg/M

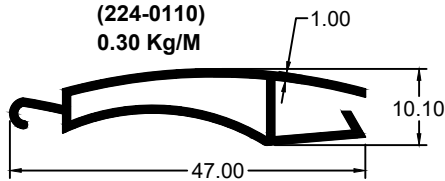


SMALL SLAT

011-01-001

(224-0110)

0.30 Kg/M

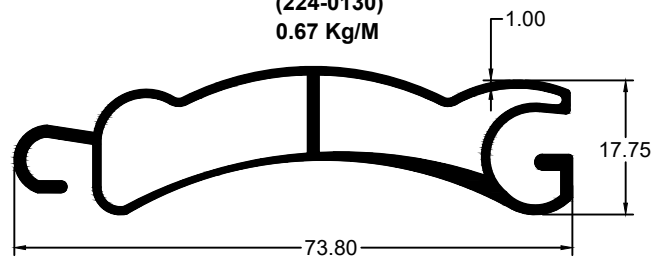


BIG SLAT

011-01-003

(224-0130)

0.67 Kg/M

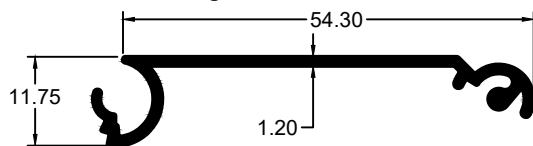


ROLLER SHUTTER SLAT

011-01-005

(224-0150)

0.31 Kg/M

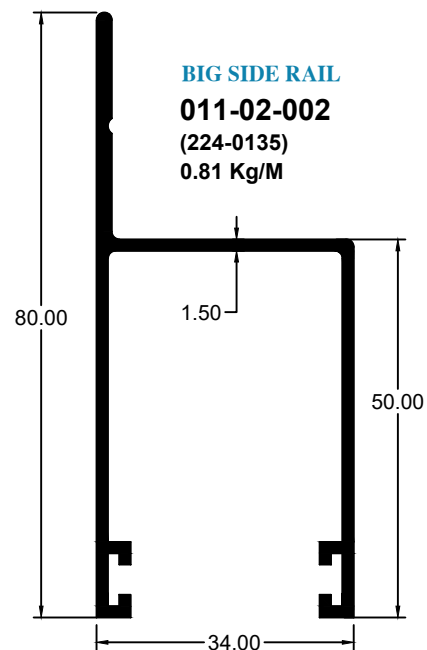


BIG SIDE RAIL

011-02-002

(224-0135)

0.81 Kg/M

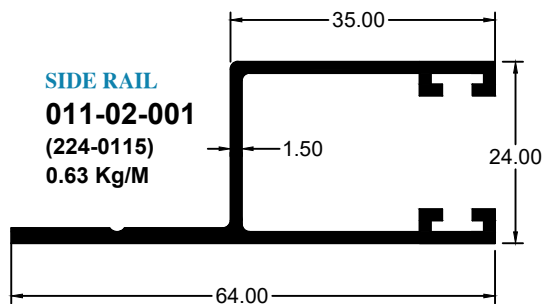


SIDE RAIL

011-02-001

(224-0115)

0.63 Kg/M

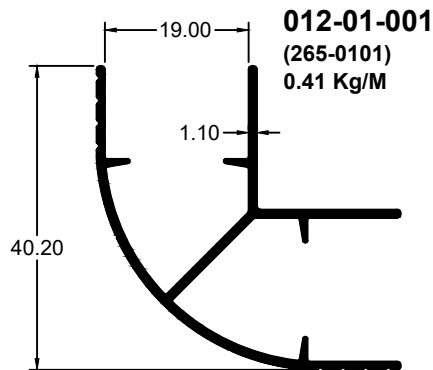


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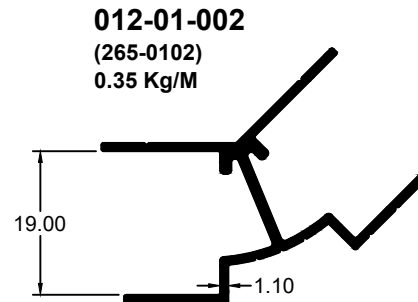
POOL TABLE PROFILES

90 DEGREE JOINER



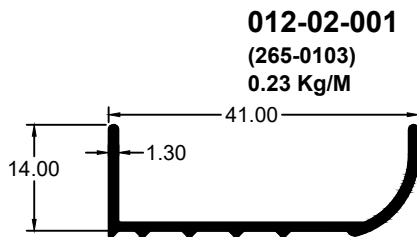
012-01-001
(265-0101)
0.41 Kg/M

135 DEGREE JOINER



012-01-002
(265-0102)
0.35 Kg/M

BIG - U PROFILE



012-02-001
(265-0103)
0.23 Kg/M

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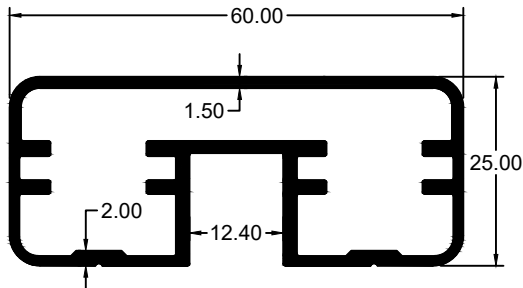
BALUSTRADE PROFILES

BALUSTRADE TOP RAIL

013-02-001

(260-0201)

0.99 Kg/M

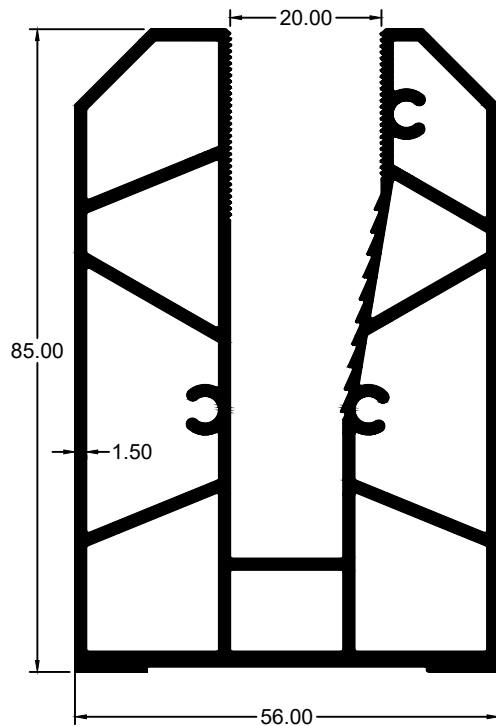


BALUSTRADE

013-01-001

(260-0101)

2.69 Kg/M

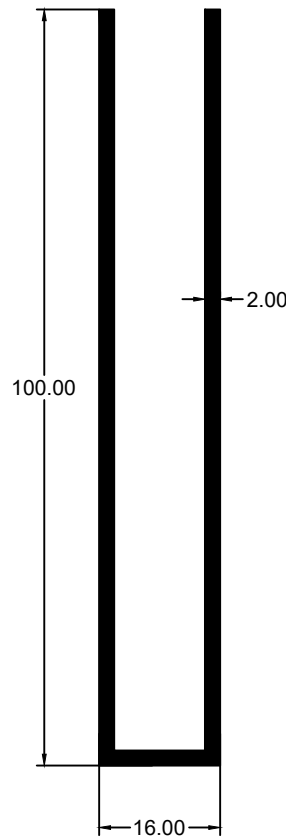


16mm C-CHANNEL

001-04-012

(104-0412)

1.21 Kg/M

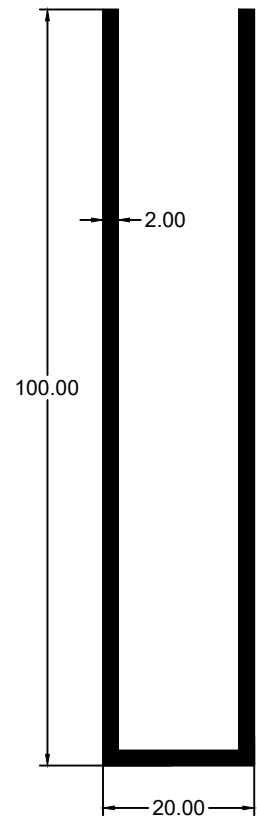


20mm C-CHANNEL

001-04-016

(104-0416)

1.23 Kg/M



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2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
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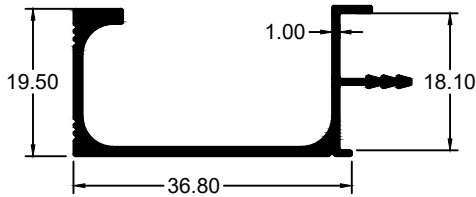
GENERAL PROFILES

SQUARE DRAWER HANDLE

014-01-002

(350-0144)

0.35 Kg/M

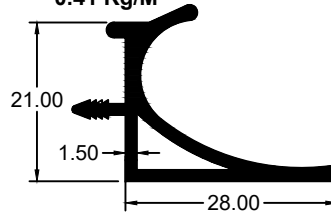


CURVED DRAWER HANDLE

014-01-001

(350-0141)

0.41 Kg/M

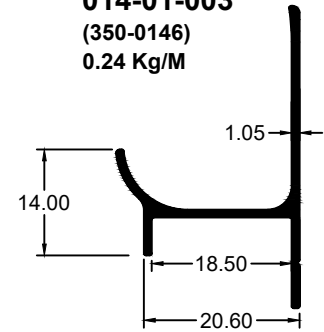


DRAWER HANDLE

014-01-003

(350-0146)

0.24 Kg/M

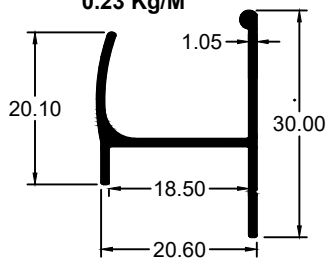


DRAWER HANDLE

014-01-004

(350-0147)

0.23 Kg/M

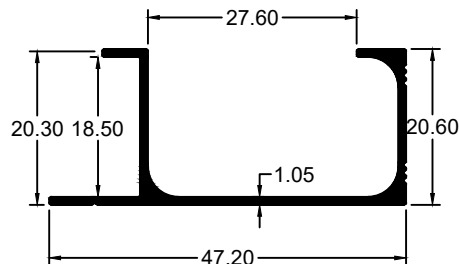


DRAWER HANDLE

014-01-005

(350-0148)

0.32 Kg/M

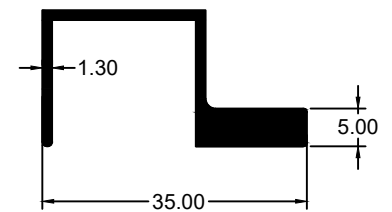


WARDROBE HANDLE

014-02-003

(350-0140)

0.40 Kg/M

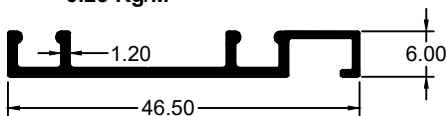


FLAT BOTTOM TRACK

014-02-001

(250-0101)

0.25 Kg/M

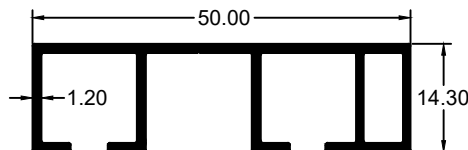


TOP TRACK

014-02-002

(250-0102)

0.45 Kg/M

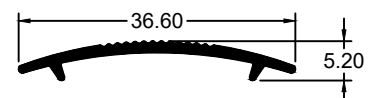


CARPET PROFILE

008-01-017

(226-1087)

0.15 Kg/M

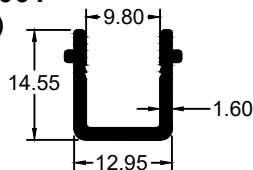


BOARD BINDING PROFILE

017-09-001

(260-1050)

0.18 Kg/M



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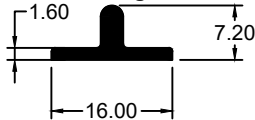
GENERAL PROFILES

TEE

017-08-002

(350-0142)

0.12 Kg/M

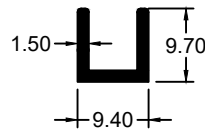


U CHANNEL

001-04-020

(350-0143)

0.11 Kg/M

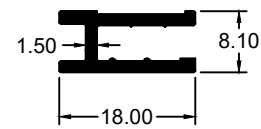


DISPLAY SHUTTER

017-01-005

(350-0145)

0.19 Kg/M

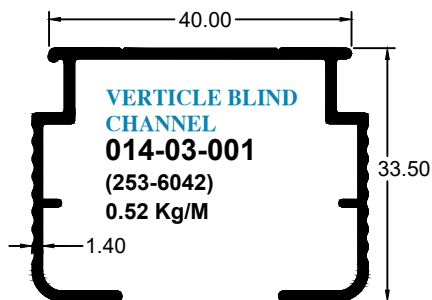


VERTICLE BLIND CHANNEL

014-03-001

(253-6042)

0.52 Kg/M

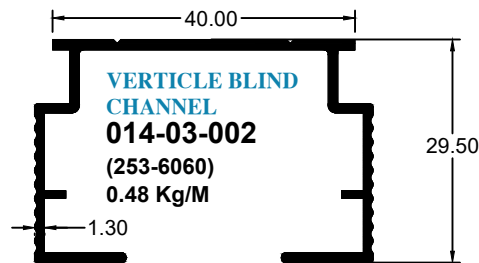


VERTICLE BLIND CHANNEL

014-03-002

(253-6060)

0.48 Kg/M



TILT ROD 6mm

014-05-001

(253-6002)

0.07 Kg/M

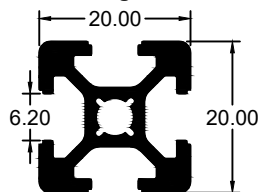


20 X 20 PROFILE

017-02-001

(264-0101)

0.48 Kg/M

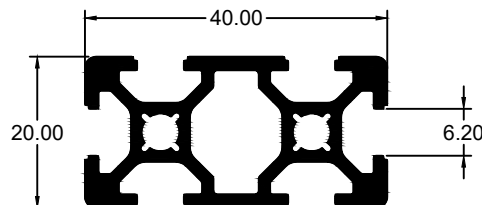


20 X 40 PROFILE

017-03-001

(264-0102)

0.82 Kg/M



TILT ROD 7mm

014-05-002

(253-6041)

0.08 Kg/M

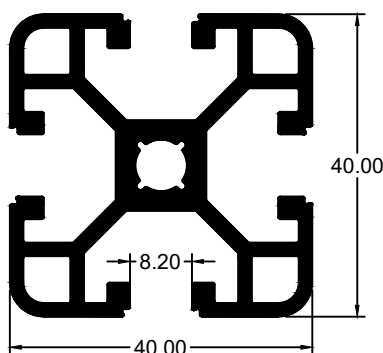


40 X 40 PROFILE

017-04-001

(264-0201)

1.49 Kg/M

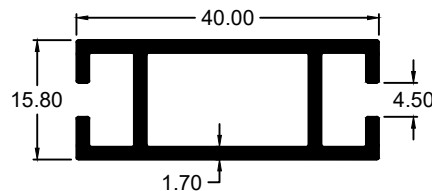


RAIL PROFILE

014-06-001

(264-0301)

0.59 Kg/M

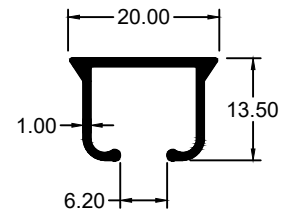


RAIL PROFILE

014-06-002

(349-0105)

0.17 Kg/M



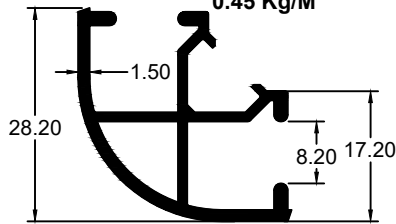
1. All dimensions are in mm
2. The weight shared is for Mill finish
3. When powder coated there will be a slight variance in weight.
4. All rights to modify or improve the products are reserved to HAL. HAL reserves the right to make changes or modifications without prior notice.



GENERAL PROFILES

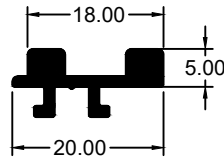
**SHOP DISPLAY CORNER
PROFILE 017-01-003**

(254-1038)
0.45 Kg/M



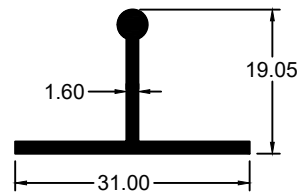
**SHOP DISPLAY
BOTTOM ROLLER 017-01-004**

(260-1339)
0.23 Kg/M



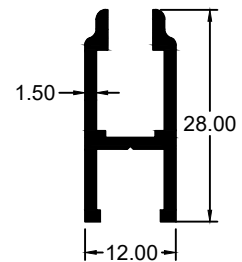
TEE PROFILE 017-08-001

(260-1003)
0.24 Kg/M



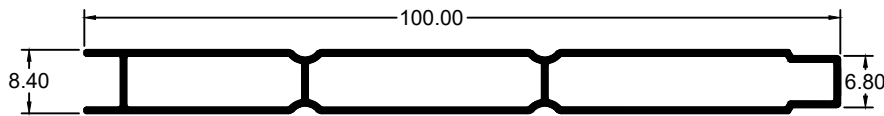
**SHOP DISPLAY GLASS
BOTTOM PROFILE 017-01-002**

(254-1035)
0.30 Kg/M



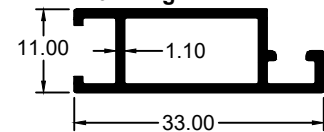
DOOR INFILL PANEL 005-05-001

(264-0401)
0.51 Kg/M



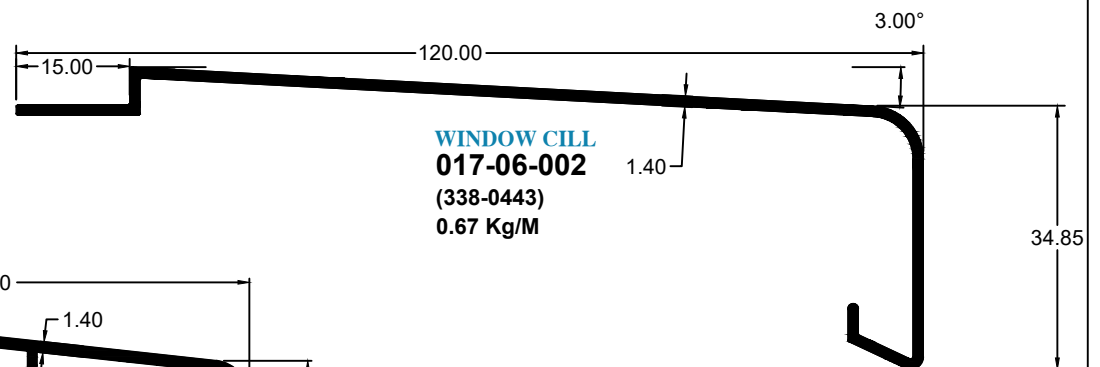
NET PROFILE 017-07-001

(254-1095)
0.27 Kg/M



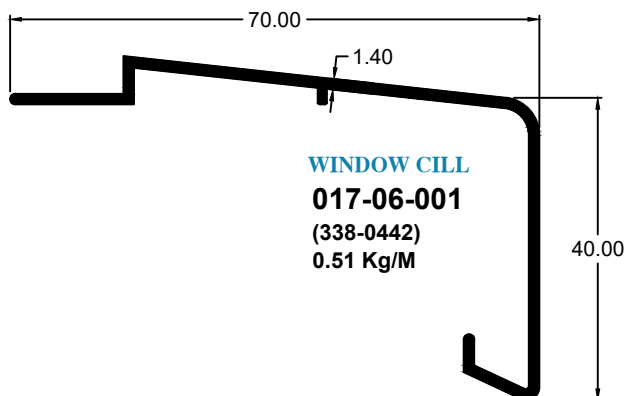
WINDOW CILL 017-06-002

(338-0443)
0.67 Kg/M



WINDOW CILL 017-06-001

(338-0442)
0.51 Kg/M



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HAL GASKETS

	DESCRIPTION	CROSS-SECTION
1.	WINDOW GASKET 5MM GLASS	
2.	WINDOW GASKET 6MM GLASS	
3.	SHUTTER PUSH GASKET 5MM GLASS	
4.	SHUTTER PUSH GASKET 6MM GLASS	
5.	SHUTTER FRAME OUTER GASKET 3MM	
6.	OUTSIDE BUBBLE GASKET 001	
7.	MESH GASKET 5.60MM	
8.	INSIDE GASKET 001	



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