

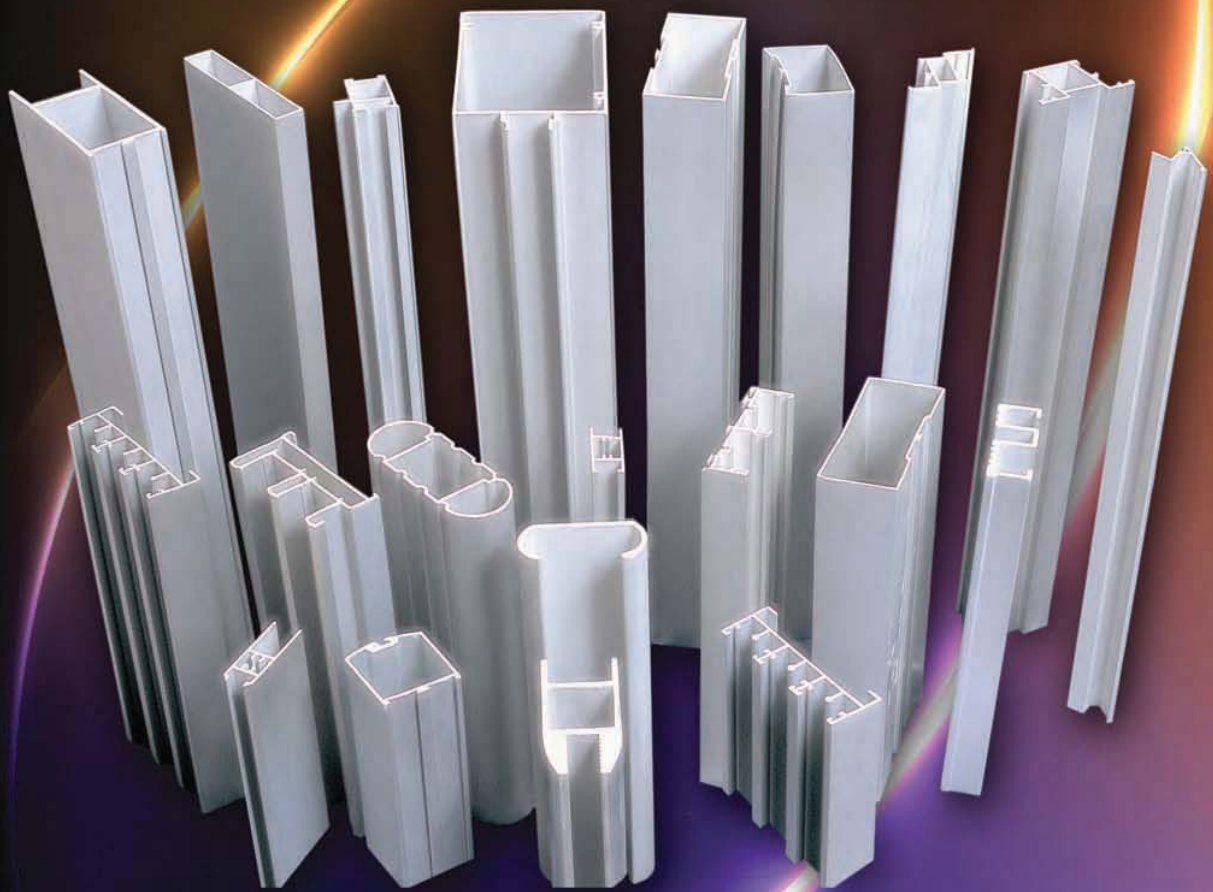


HINDALCO
EXTRUSIONS

EXPERTISE IS OUR STRENGTH

Architectural-ALUPURAM

Printed Dec. 2014



HINDALCO
EXTRUSIONS

EXPERTISE IS OUR STRENGTH



VISION

To be a premium metals major, global in size and reach, excelling in everything we do, and creating value for our stakeholders.

MISSION

To relentlessly pursue the creation of superior shareholder value, by exceeding customer expectation profitably, unleashing employee potential, while being a responsible corporate citizen adhering to our values.

VALUES

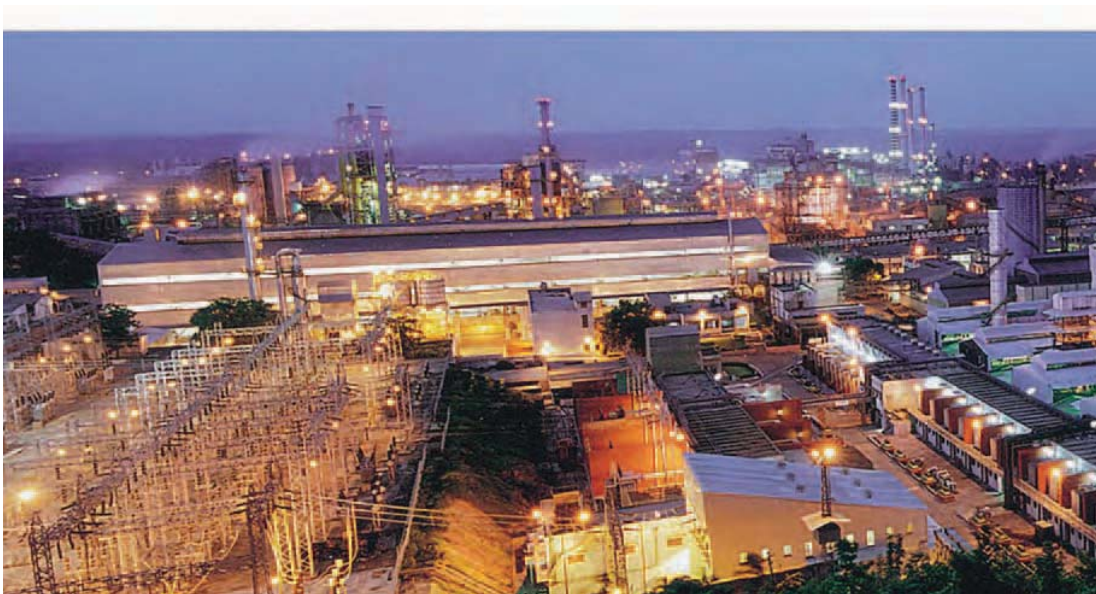
Integrity: Honesty in every action

Commitment: Deliver on the promise

Passion: Energized action

Seamlessness: Boundaryless in letter and spirit

Speed: One step ahead always



Hindalco Architectural Catalogue

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HINDALCO - An Overview

Hindalco Industries Limited, a USD 15 billion flagship company of the Aditya Birla Group, is a leading producer of aluminium and copper. Hindalco is present across the value chain of Aluminium & Copper. It has global footprint spanning across 13 countries in 5 continents

Aluminium

- Amongst top 5 aluminium majors worldwide.
- World's largest aluminium rolling company.
- Integrated operations - from mines to alumina to metal to value added products
 - ✦ Ingots & redraw rods (wire rods)
 - ✦ Flat Rolled products
 - ✦ Extrusions
 - ✦ Foils

Copper

- World's largest single-location copper smelting capacity.
- Copper mines in Australia.

Hindalco is a leader in Aluminium Extrusions industry in India with two manufacturing facilities. Both the plants are equipped with state of the art equipment, having well established manufacturing processes and quality systems honed over five decades.

- Manufacturing Facilities
 - ✦ Renukoot, U. P. (North India)
 - ✦ Alupuram, Kerala (South India)
- Capacity 60,000 MT per annum
- Expertise in customised alloys including hard alloys
- Catering to wide range of application segments such as Architectural, Electrical, Industrial, Transport, Defence and Consumer Durable.
- Extrusions manufactured from in-house virgin metal
- Quality Certification
 - ✦ ISO 9001-2008
 - ✦ ISO 14001-2004
 - ✦ OHSAS 18001-2007

This Catalogue covers the Architectural sections from the range manufactured in the Alupuram plant of Hindalco - India's first Extrusions plant started in the year 1955.

Hindalco Architecturals offer superior appearance, resistance to weathering, easy fabrication and high strength to weight ratio. Also they are versatile, durable and have aesthetic/decorative potential offering unique over other material. Hence Hindalco Architecturals are preferred choice of the architects, designers and builders.

Alupuram Plant



1250 T Lowey Hydraulic Press with 6" container, automatic controls and puller



3300 T Farrel Watson Stillman Press with 9" & 12" containers, automatic controls and puller



Ultramodern Makino Vertical Machining Centre in Die Shop



CNC Wire EDM Machine in Die Shop



Solution Heat Treatment Furnace



Spectrometer for Quantometric Analysis



Branding Machine



Automated Packing Station



Why Hindalco Architecturals?

- ✓ Manufactured from high quality billets made from in-house virgin metal.
- ✓ Better control on impurities and superior surface finish lead to excellent anodising.
- ✓ Well-established manufacturing process and heat treatment practices honed over 5 decades of experience.
- ✓ Traceability of material right from metal stage.
- ✓ Comprehensive testing facilities.
- ✓ Available in wide range of shapes and sizes.
- ✓ Hollow sections upto 250mm CCD.
- ✓ Excellent corrosion resistance.
- ✓ Tightest Dimensional Tolerances improve quality of fabrication and minimise rejection.
- ✓ Enables superior design, exacting quality standards, strong, functional, aesthetic & easy to maintain Architectural Systems.
- ✓ Suitable for wide range of finishes to match the decors. Anodised, Powder coated, Polyvinylidene Fluoride (PVDF) coated, Wood coated etc.

Major Applications

- | | |
|---|-----------------------------------|
| ■ Windows (Sliding & Casement) | ■ Furniture/Modular Systems |
| ■ Doors | ■ Hand Railings/Stairs/Balusters |
| ■ Partitions/Shop Fronts | ■ Wall Facings |
| ■ Hardwares (Tower Bolts/Aldrops/Hinges/Door Handles) | ■ Expanded Grills |
| ■ Curtain Wallings/Structural Glazing | ■ Venetian Blinds & Curtain Rails |
| ■ False Ceiling | ■ Aluminium Form Work |
| ■ Northlight Glazing | ■ Roofing Structural |
| ■ Ladders | ■ Mosquito Net |
| ■ Exhibition Display | ■ Louvers & Sun Screens |
| | ■ Rolling Shutters |

Specifications

Chemical Composition (%)

Alloy Designation	Silicon (Si)	Iron (Fe)	Titanium (Ti)	Manganese (Mn)	Magnesium (Mg)	Copper (Cu)	Zinc (Zn)	Chromium (Cr)	Others Each	Others Total
AA6063/ ALCAN 50S/IS63400	0.30 - 0.70	0.60	0.20	0.30	0.40 - 0.90	0.10	0.20	0.10	0.05	0.15
AA1050/ ALCAN C1S/IS19501	0.15	0.35	–	0.02	–	0.04	0.02	0.02	0.03	0.10
AA6101/ ALCAN D50S/IS63401	0.3 - 0.7	0.50	0.10	0.03	0.4 - 0.9	0.05	0.10	0.03	0.03	0.10
AA6351/ ALCAN B51S/IS64430	0.60 - 1.30	0.60	0.20	0.40 - 1.00	0.40 - 1.20	0.10	0.10	0.25	0.05	0.15
AA6082	0.70 - 1.30	0.50	0.10	0.40 - 1.00	0.60 - 1.20	0.10	0.20	0.25	0.05	0.15
AA6061/ ALCAN D65S/IS65032	0.40 - 0.80	0.70	0.15	0.15	0.80 - 1.20	0.15 - 0.40	0.25	0.04 - 0.35	0.05	0.15
ALCAN C62S/IS64423	0.70 - 1.30	0.80	–	1.00	0.50 - 1.30	0.50 - 1.10	–	–	0.07	0.25
AA6066	0.90 - 1.80	0.50	0.20	0.60 - 1.10	0.80 - 1.40	0.70 - 1.20	0.25	0.40	0.05	0.15

Note: Single figure shows maximum limit

Mechanical Properties

Alloy Designation	Temper	CCD (mm)	Tensile Strength (Min) Kg/mm ²	0.2% Proof Stress (Min) Kg/mm ²	% Elongation On 50mm (Min)
AA6063/ALCAN 50S/IS63400	WP/T6	0 - 150	18.9	15.3	7.0
		150 - 200	15.3	13.3	6.0
AA1050/ALCAN C1S/IS19501	M/F	–	6.12	–	25
AA6101/ALCAN D50S/IS64423	WP/T6	–	20.40	17.34	10
AA6351/AA6082/ALCAN B51S/ IS64430	WP/T6	0 - 75	31.5	27.5	7.0
		75 - 150	30.1	27.5	7.0
		150 - 336	28.0	23.0	7.0
AA6061/ALCAN D65S/IS65032	WP/T6	0 - 150	28.5	24.0	7.0
		150 - 200	25.0	20.4	6.0
AA6066/ALCAN C62S/IS64423	WP/T6	75 - 150	34.0	31.5	7.0
		150 - 220	30.1	27.5	7.0



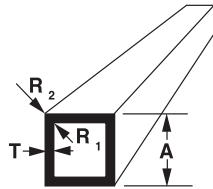
ISO9001 : 2008 Quality Management System

ISO-14001 : 2004 Environment Management System

OHSAS-18001 : 2007 Occupational Health and Safety Assessment Series

All dimensions given in this catalogue are in mm.

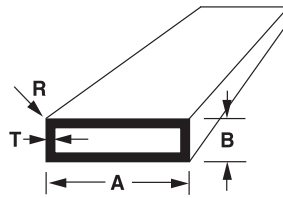
Square Tubes



Sec	A	T	R ₁	R ₂	Kg/m	Sec	A	T	R ₁	R ₂	Kg/m
9405	12.70	1.65			0.197	8300	50.00	2.00			1.037
9811	18.50	1.20			0.224	8309	50.00	2.00			1.037
8464	19.00	1.00			0.194	8312	50.00	1.20			0.632
9806	19.00	1.60	2.00	1.00	0.294	8454	50.00	5.00	3.00		2.430
8316	19.05	3.25			0.554	8455	50.00	3.00	0.00		1.522
9406	19.05	1.65			0.310	8477	50.00	1.60	5.00	3.40	0.805
8302	20.00	2.00			0.389	8479	50.00	1.60			0.836
9446	20.00	2.50	2.50		0.458	8322	50.80	6.35	6.35	6.35	3.048
8472	23.00	1.00	1.00	1.00	0.237	8326	50.80	3.05			1.460
9810	24.00	1.20			0.295	8327	50.80	4.78	10.16	6.35	2.228
8332	25.00	2.00			0.497	8335	50.80	2.00			1.054
8465	25.00	1.20			0.308	8467	50.80	4.50			2.250
8301	25.40	1.63			0.418	8470	50.80	6.35			3.048
8311	25.40	1.00			0.264	9404	50.80	3.25			1.669
8336	25.40	2.00			0.505	9410	50.80	3.05			1.573
8457	25.40	3.25			0.777	9886	61.00	5.00		3.00	3.045
9407	25.40	2.41			0.598	8325	63.50	6.00			3.726
9769	25.40	1.42			0.368	8461	63.50	3.25			2.114
8319	30.00	2.00	0.50	0.00	0.604	8328	76.20	6.35	6.35		4.720
8306	31.75	0.00			0.875	8330	76.20	6.35	1.00		4.788
8324	31.75	3.00			0.932	8458	76.20	3.25			2.560
8459	31.75	3.25			1.000	8478	76.20	3.18			2.507
8473	37.00	1.10			0.426	8471	80.00	4.00			3.283
8474	38.00	1.50	3.00	1.50	0.576	8480	90.00	2.00			1.864
8305	38.10	4.50			1.633	8333	100.00	3.00			3.142
8339	38.10	2.90			1.102	8331	101.60	6.00	1.50	1.50	6.195
8462	38.10	6.00			2.080	8460	101.60	3.25			3.452
8468	38.10	2.00	0.80		0.778	8482	101.60	6.35	1.50		6.532
9879	38.10	3.18			1.199	9862	120.00	3.00	2.50	1.50	3.782
8303	40.00	4.00			1.555						
8456	40.00	3.00			1.198						
8466	44.45	3.00			1.343						

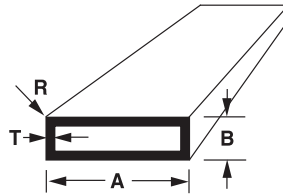


Rectangular Tubes

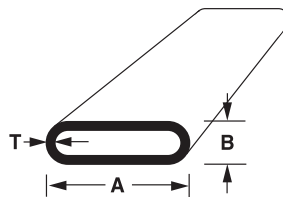


Sec	A	B	T	R	Kg/m	Sec	A	B	T	R	Kg/m
9908	20.00	12.00	1.20	1.20	0.192	9835	50.80	25.40	2.00		0.780
9736	24.00	15.00	2.00	0.50	0.377	9836	50.80	25.40	1.50	1.50	0.593
8366	30.00	20.00	1.50	0.50	0.380	8509	55.00	35.00	3.00	2.00	1.352
8363	33.00	20.00	1.20	2.50	0.317	9809	63.00	37.00	1.50		0.786
8400	37.00	24.00	0.90		0.287	9833	63.00	37.00	1.20	0.40	0.635
8420	37.00	24.00	1.00		0.318	8352	63.50	38.10	3.00		1.549
8431	37.00	24.00	1.15		0.364	8411	63.50	38.10	1.28		0.687
8389	38.10	25.40	2.90		0.904	8430	63.50	38.10	1.80		0.953
8409	38.10	25.40	3.25		1.000	9414	63.50	38.10	3.05		1.573
9412	38.10	25.40	2.41		0.764	9771	63.50	38.10	2.00	2.00	1.054
9826	38.10	25.40	1.50		0.490	8404	65.00	25.40	1.15		0.547
9827	38.10	25.40	2.00		0.643	8372	75.00	45.00	5.00	0.10	2.970
8399	40.00	20.00	2.00		0.605	8350	76.20	25.40	1.20		0.643
8432	40.00	25.00	2.00		0.659	8382	76.20	50.80	2.80		1.836
8578	40.00	35.00	3.50	1.50	1.431	8384	76.20	25.40	2.80		1.452
9927	40.00	20.00	3.00		0.877	8410	76.20	50.80	3.25		2.114
9926	41.00	20.00	3.00		0.893	8412	76.20	50.80	6.35		3.919
9612	44.45	25.40	2.41	2.41	0.846	8415	76.20	50.80	4.50		2.867
8371	45.00	25.00	5.00	1.00	1.620	8481	80.00	80.00	6.00		4.795
8421	48.00	24.00	1.00		0.378	9917	80.00	40.00	4.00		2.419
8362	49.80	20.00	1.20	2.50	0.426	9808	82.00	37.00	1.80		1.122
8423	50.00	25.00	3.00		1.117	9832	82.00	37.00	1.50		0.942
8317	50.80	38.10	3.25		1.446	8370	100.00	76.00	3.00	5.00	2.717
8351	50.80	25.40	1.20		0.478	8375	100.00	50.00	1.60		1.268
8354	50.80	25.40	1.44		0.570	9896	100.00	40.00	1.50		1.110
8379	50.80	25.40	3.18	6.35	1.127	8417	101.50	44.50	1.60		1.236
8405	50.80	25.40	3.25		1.223	9831	101.50	44.50	1.80		1.386
8406	50.80	25.40	3.18		1.199	8355	101.60	44.75	1.35		1.047
8407	50.80	25.40	3.00		1.137	8364	101.60	50.80	6.35	1.00	4.788
8413	50.80	25.40	4.50		1.633	8380	101.60	50.80	4.78	0.40	3.687
8429	50.80	25.40	1.80	3.00	0.706	8387	101.60	25.40	2.90		1.898
9413	50.80	25.40	2.41		0.929	8390	101.60	25.40	3.25		2.114

Rectangular & Oval Tubes



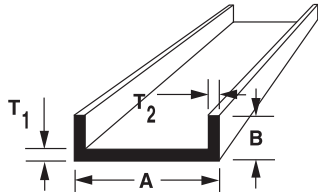
Sec	A	B	T	R	Kg/m
8403	101.60	50.80	3.25		2.560
8425	101.60	50.80	3.18		2.507
9491	101.60	44.45	3.18		2.398
8426	110.00	100.00	4.00	4.00	4.363
8357	115.00	100.00	4.00		4.471
8402	120.00	60.00	2.00		1.901
8361	125.00	60.00	8.00	0.30	6.113
8381	127.00	50.80	4.76		4.325
9726	127.00	63.50	4.00	4.00	3.979
8360	150.00	60.00	3.00	0.30	3.305
8376	150.00	50.00	3.00		3.143
8397	152.40	50.80	3.00	1.00	3.195
8419	152.40	50.80	6.35		6.532
8377	200.00	50.00	3.00		3.953



Sec	A	B	T	R	Kg/m
9660	15.10	9.70	2.23		0.206
9577	19.30	12.40	2.84		0.336
9417	20.55	12.42	1.65		0.223
9586	29.72	19.11	4.38		0.793
9861	31.80	21.00	5.00		0.970
9574	35.40	22.69	5.13		1.116
9573	41.61	26.80	6.15		1.569
9855	46.00	18.00	2.00		0.574

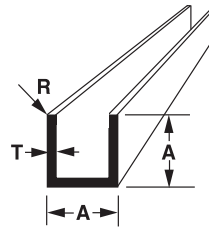
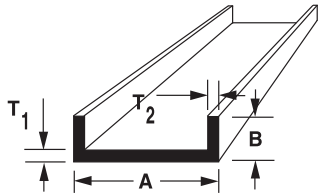


Channels



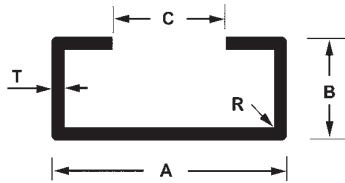
Sec	A	B	T ₁	T ₂	Kg/m
2219	76.00	64.00	1.00	1.00	4.713
2232	76.00	72.00	1.00	1.00	5.145
2236	76.20	38.10	6.35	7.94	2.667
2258	76.20	38.10	6.35		2.395
2300	76.20	38.10	6.35	7.94	2.735
2305	76.20	38.10	3.96	5.56	1.906
2311	76.20	25.40	3.18	3.18	1.032
2364	76.20	32.00	4.00		1.424
2366	76.20	50.80		6.35	2.825
2309	90.00	40.00	4.00	5.00	1.962
2215	100.00	76.00	14.00	14.00	8.592
2216	100.00	76.00	12.00	12.00	7.512
2250	100.00	50.00		5.00	2.564
2270	100.00	75.00	6.00		3.855
2328	100.00	50.00	8.00	8.00	3.971
2342	100.00	50.00	6.25	8.00	3.693
2141	101.60	50.80		6.00	3.100
2237	101.60	50.80	6.35	7.94	3.647
2288	101.60	50.80	3.00		1.597
2302	101.60	50.80	6.35	7.94	3.744
2322	101.60	41.83	6.68		3.205
2335	101.60	76.20	9.53	9.53	6.042
2377	101.60	50.80		6.35	3.261
2398	101.60	50.80		6.00	3.097
2343	101.72	50.80	6.35	8.00	3.744
2206	104.00	100.00	12.00	12.00	9.177
2391	114.00	107.50	6.00		5.010
2336	127.00	48.00	8.00		4.575
2417	127.00	50.80	6.00	6.00	3.509
2242	138.00	68.00	6.00	6.00	4.286
2246	150.00	76.00	12.00	12.00	9.132
2333	150.00	75.00	4.88		3.991
2273	152.40	50.80	6.35	7.93	4.513
2327	152.40	76.20	6.35	9.52	6.375
2332	152.40	51.66	8.10		5.381
2338	152.40	50.80	6.35	7.94	4.562
2339	152.40	76.20	6.35	9.52	6.247
2376	152.40	50.80	9.53	9.53	6.074
2379	152.40	76.20	9.53	12.70	8.602
2392	152.40	76.20	6.00	8.00	5.527
2221	8.75	9.50	1.50	1.20	0.087
2369	13.40	11.11	2.70	2.35	0.204
2310	16.00	12.70		1.55	0.160
2169	19.00	13.00	1.00		0.116
2200	25.40	12.70	3.18		0.381
2334	28.00	19.00	2.00		0.319
2316	31.75	25.40	3.17		0.652
2612	31.75	25.40	4.76	3.18	0.762
2204	31.76	12.70	3.18		0.436
2263	33.00	15.00		2.00	0.319
2389	35.06	38.10		3.18	0.900
2201	38.10	19.05	3.18		0.599
2320	39.04	9.53	3.25		0.443
2321	39.04	15.88	3.25		0.540
2138	41.35	18.49	2.24	1.60	0.388
2613	44.45	25.40	4.76	3.18	0.925
2307	44.50	19.05	1.98		0.430
2199	50.00	25.00	3.00	3.00	0.761
2315	50.00	30.00	2.50		0.687
2202	50.80	25.40	4.76		1.183
2247	50.80	25.40		3.20	0.822
2255	50.80	25.40		2.90	0.750
2374	50.80	25.40	4.76	4.76	1.069
2280	51.20	40.00	4.10	4.10	1.364
2375	53.80	25.40	4.76	4.76	1.107
2217	54.00	32.00	3.00		0.907
2361	57.00	45.00	3.00	3.00	1.136
2103	60.00	45.00	2.50	2.50	0.985
2373	63.50	25.40	4.76	4.76	1.232
2125	75.00	40.00		5.00	1.957
2223	75.00	35.00	6.00		2.164
2224	75.00	35.00	8.00		2.796
2297	75.00	72.50	66.50	3.00	1.752

Channels

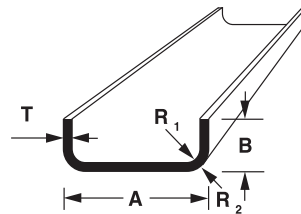


Sec	A	B	T ₁	T ₂	Kg/m
2349	177.00	76.00		8.00	6.900
2319	177.80	58.40	9.98		7.543
2380	177.80	76.20	9.53	12.70	9.255
2267	180.00	75.00	1.00	1.00	8.380
2350	200.00	50.00	1.00	1.00	7.560
2416	200.00	70.00	4.00	7.00	4.654
2317	203.20	65.00	11.84		10.081
2323	203.20	101.60	9.58	14.29	12.580
2326	203.20	101.60	9.58	14.29	12.593
2378	203.20	76.20	9.53	12.70	9.909
2351	216.00	112.00	12.00	12.00	13.478
2318	254.00	92.07	13.18		14.615
2396	254.00	92.07		13.18	14.615
2414	280.00	70.00	12.00	12.00	12.309

Sec	A	T	R	Kg/m
2284	9.52	1.20		0.085
2209	9.52	1.60		0.109
2241	12.70	1.59		0.149
2386	19.05	3.18		0.436
2387	22.22	3.18		0.517
2256	25.40	2.90		0.551
2388	25.40	3.18		0.599
2293	31.75	3.18	3.18	0.763
2281	50.00	3.00		1.166
2105	50.80	3.17		1.250
2298	50.80	6.35	1.50	2.390
2312	100.00	10.00	10.00	7.559



Sec	A	B	C	T	R	Kg/m
2751	22.50	14.00	9.00	2.50		0.364
2715	100.00	50.00	60.00	4.00	2.00	2.345

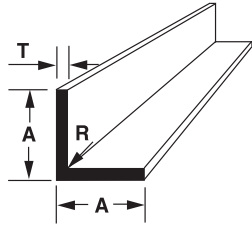


Sec	A	B	T	R ₁	R ₂	Kg/m
2404	88.90	28.58	3.00	2.00	5.00	1.110

2340 **3.696 Kg/m**

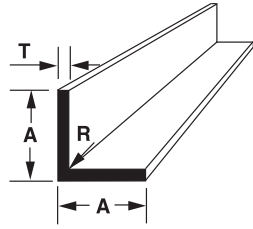


Equal Leg Angles



Sec	A	T	Kg/m	Sec	A	T	Kg/m
1614	12.70	1.50	0.096	1744	31.74	2.90	0.474
1740	12.70	2.90	0.168	1616	31.75	1.58	0.264
1750	12.70	3.18	0.191	1730	31.75	3.00	0.490
1835	12.70	1.50	0.097	1733	31.75	5.80	0.903
1793	19.00	1.50	0.147	1749	31.75	4.76	0.755
1751	19.05	3.18	0.300	1753	31.75	3.18	0.532
1788	19.05	3.00	0.284	1796	31.75	3.18	0.518
1795	19.05	1.59	0.157	1821	31.75	4.50	0.717
1897	19.05	3.18	0.300	1838	32.00	3.00	0.494
1609	20.00	2.00	0.200	1747	38.00	3.00	0.591
1702	20.64	1.98	0.210	1604	38.10	1.58	0.318
1781	21.00	2.00	0.216	1636	38.10	38.10	0.631
1709	23.50	1.50	0.184	1639	38.10	38.10	0.933
1705	23.83	1.57	0.195	1701	38.10	1.63	0.328
1746	25.00	1.50	0.197	1711	38.10	3.18	0.627
1773	25.00	2.00	0.259	1712	38.10	4.76	0.918
1783	25.00	3.00	0.381	1714	38.10	6.35	1.197
1785	25.00	1.60	0.208	1728	38.10	3.00	0.593
1605	25.40	6.00	0.725	1755	38.10	3.18	0.627
1700	25.40	3.18	0.408	1756	38.10	4.76	0.934
1745	25.40	2.90	0.375	1808	38.10	5.80	1.102
1752	25.40	3.18	0.409	1875	38.10	4.50	0.871
1787	25.40	1.10	0.148	1937	38.10	4.80	0.924
1794	25.40	1.59	0.211	1620	40.00	5.00	0.995
1798	25.40	4.50	0.562	1776	40.00	3.50	0.722
1801	25.40	1.60	0.213	1790	40.00	5.00	1.011
1830	25.40	5.80	0.705	1831	40.00	2.00	0.421
1638	25.40	25.40	0.414	1955	40.00	3.75	0.772
1618	30.00	3.00	0.461	1956	40.00	4.00	0.820
1833	30.00	1.50	0.237	1601	44.45	3.18	0.736
				1767	44.45	4.78	1.105
				1780	44.45	4.78	1.085
				1816	44.45	6.00	1.343
				2075	44.50	6.00	1.349
				1622	45.00	8.00	1.792
				1789	45.00	5.00	1.147
				1611	50.00	5.00	1.282

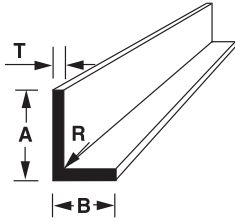
Equal Leg Angles



Sec	A	T	Kg/m
1621	50.00	6.00	1.497
1732	50.00	3.00	0.786
1782	50.00	3.00	0.786
1832	50.00	2.00	0.529
1836	50.00	6.00	1.522
1844	50.00	6.00	1.522
1848	50.00	4.50	1.160
1713	50.80	4.76	1.244
1715	50.80	6.35	1.633
1718	50.80	6.35	1.637
1720	50.80	4.50	1.179
1721	50.80	4.50	1.179
1722	50.80	6.00	1.548
1729	50.80	3.00	0.799
1739	50.80	9.52	2.367
1765	50.80	6.35	1.654
1766	50.80	4.78	1.265
1797	50.80	3.18	0.845
1807	50.80	5.80	1.500
1810	50.80	5.00	1.304
1839	50.80	1.58	0.426
1635	50.80	50.80	1.268
1637	50.80	50.80	0.849
1624	60.00	8.00	2.440
1704	60.00	8.00	2.419
1707	60.33	5.56	1.728
1631	63.50	3.18	1.063
1735	63.50	4.50	1.488
1743	63.50	6.00	1.960
1748	63.50	2.90	0.972
1759	63.50	6.35	2.068
1760	63.50	6.35	2.095
1768	63.50	4.78	1.604
1828	63.50	9.50	3.014
1619	65.00	6.00	2.008
1603	70.00	2.00	0.745
1716	75.00	6.00	2.322
1813	75.00	6.00	2.336
1608	76.20	12.70	4.788
1719	76.20	9.00	3.484
1742	76.20	3.00	1.210
1770	76.20	3.18	1.279
1771	76.20	9.52	3.706
1784	76.20	6.00	2.371
1843	76.20	9.52	3.672
1845	76.20	6.35	2.504
1814	80.00	8.00	3.283
1762	88.90	6.35	2.980
1625	90.00	10.00	4.604
1600	101.60	6.35	3.374
1606	101.60	3.18	1.717
1731	101.60	6.00	3.195
1738	101.60	12.70	6.532
1799	101.60	9.00	4.719
1723	101.60	9.52	4.978
1938	101.60	9.53	4.983
1628	110.00	12.00	6.734
1724	127.00	6.35	4.246
1727	127.00	12.70	8.274
1811	127.00	9.52	6.282
1809	152.40	6.00	4.841
1812	152.40	12.70	10.014

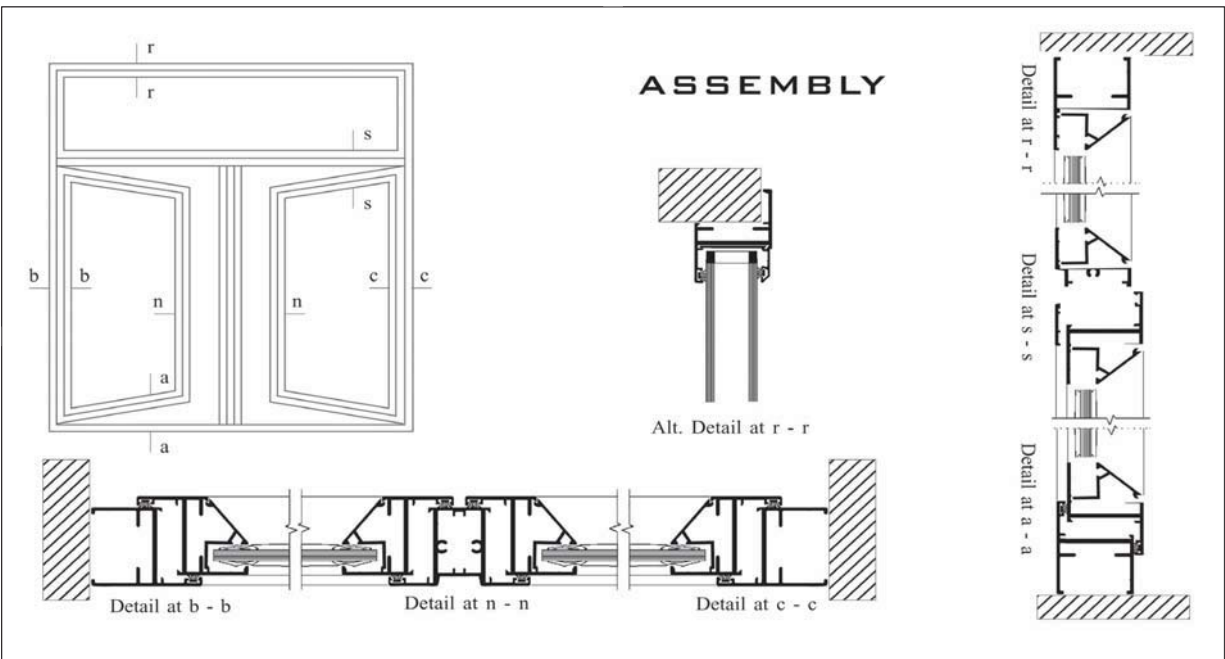
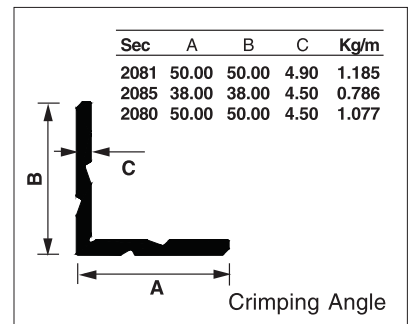
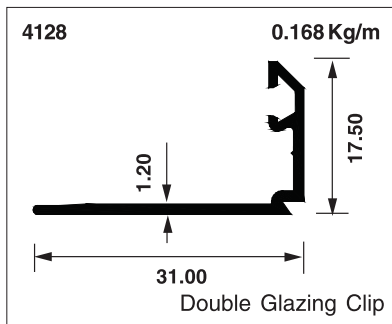
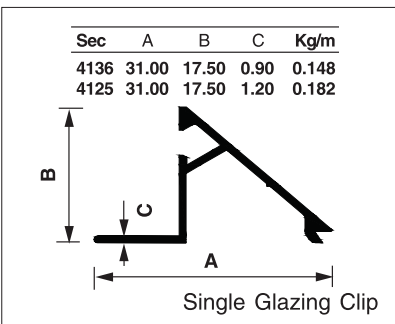
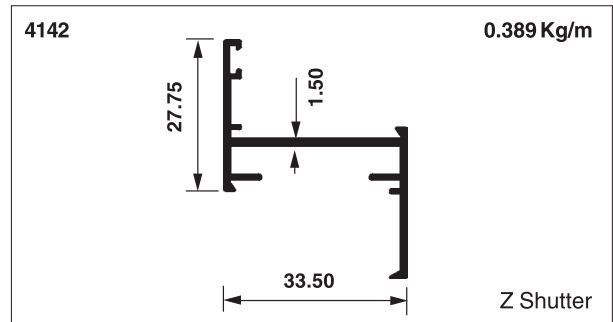
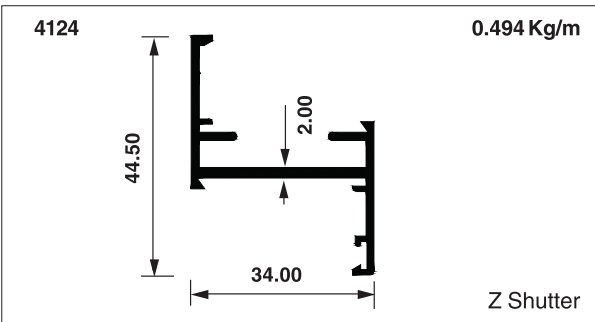
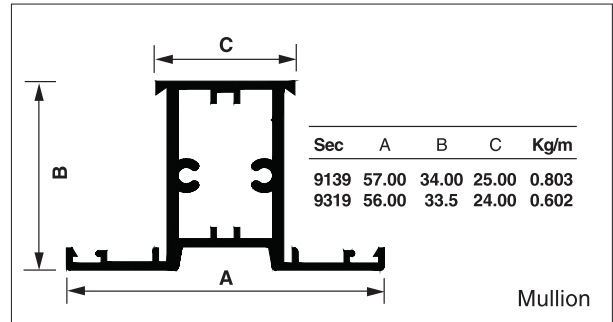
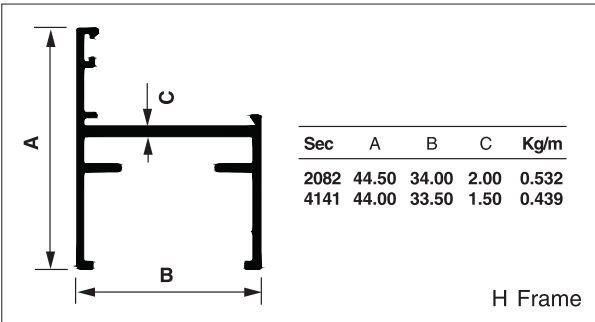


Unequal Leg Angles



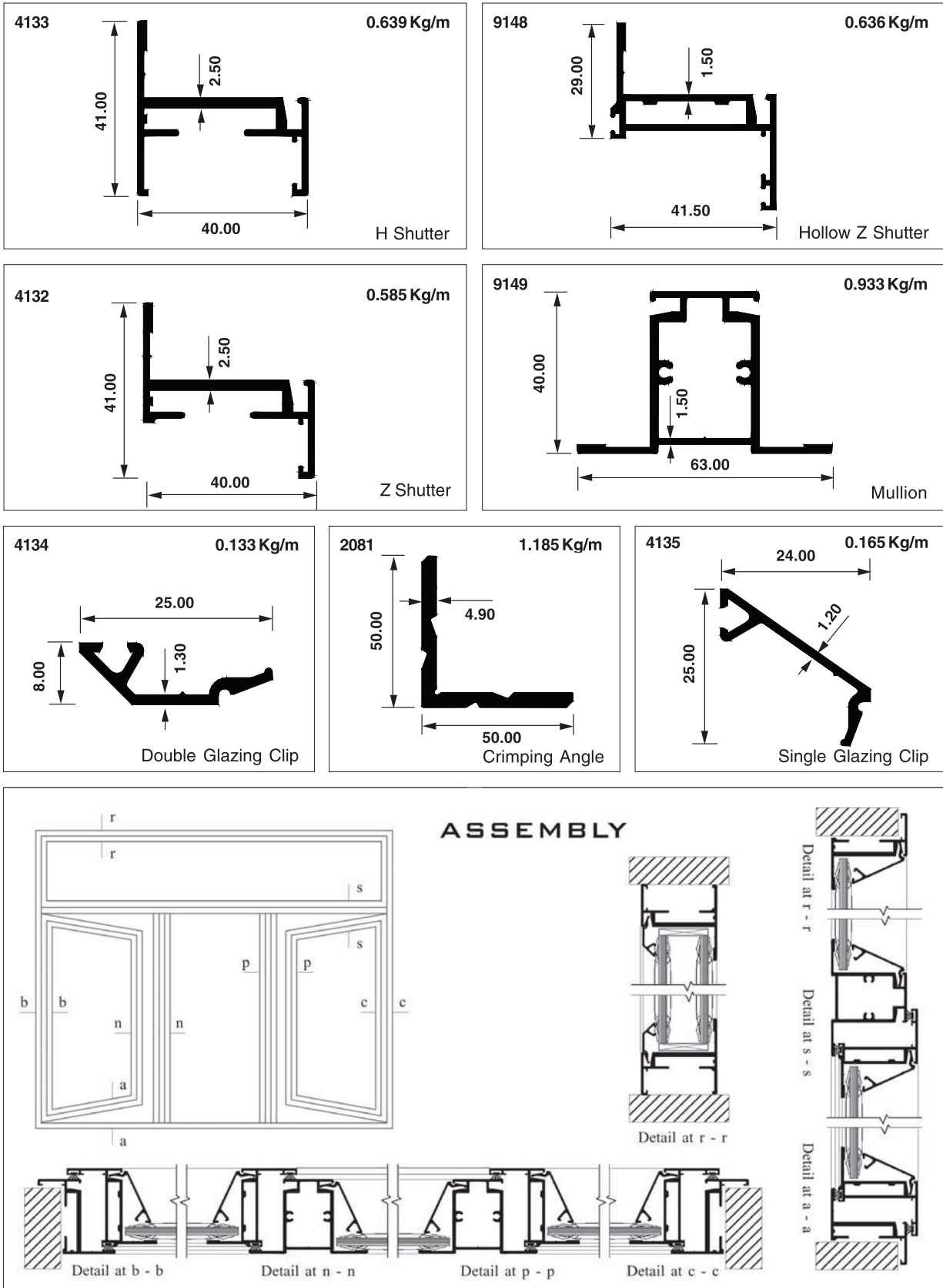
Sec	A	B	T	Kg/m
1988	18.00	12.00		0.151
1737	19.05	9.52		0.115
1912	19.05	15.88		0.209
1857	20.64	10.32		0.155
1725	22.00	12.70	3.10	0.264
2036	23.90	11.30	7.50	0.616
1850	25.40	12.70	1.59	0.157
1866	25.40	12.70		0.299
1853	30.18	25.40		0.502
1863	30.18	9.93		0.203
2037	31.20	9.65	7.50	0.703
2039	31.20	11.30	7.50	0.839
1854	31.75	19.05		0.408
1948	31.75	25.40	3.18	0.463
1881	38.00	25.00	3.00	0.486
1855	38.10	25.40		0.517
1877	38.10	25.40		0.753
1890	38.10	25.40	2.90	0.474
1958	38.10	19.05		0.463
1985	38.10	25.40		0.364
1987	38.10	25.40	2.30	0.380
1945	40.00	20.00	2.00	0.313
1954	40.00	18.00		0.444
1633	50.00	30.00	4.00	0.824
1960	50.00	25.00	3.00	0.583
1856	50.80	38.10		1.415
1893	50.80	25.40		0.627
1929	50.80	101.60	6.00	2.386
1975	50.80	25.40		1.197
1976	50.80	25.40	3.18	0.626
1978	50.80	25.40	4.76	0.918
1623	60.00	50.00	6.00	1.693
1903	63.50	50.80		1.433
1949	63.50	38.10		0.845
1634	65.00	33.00	7.00	1.264
1927	75.00	50.00	6.00	1.927
1815	76.20	50.80	6.35	2.091
1892	76.20	50.80	6.35	2.069
1904	76.20	50.80		2.095
1913	76.20	63.50		2.851
1926	76.20	50.80	6.00	1.974
1930	76.20	50.80		1.488
1944	76.20	38.10		1.334
1951	76.20	38.10		1.850
1974	76.20	25.40		0.845
1980	76.20	50.80	3.18	1.063
1981	76.20	25.40	6.00	1.548
1905	88.90	63.50		2.537
1626	100.00	75.00	1.00	4.465
1627	100.00	90.00	1.00	4.917
1717	100.00	60.00	6.00	2.509
1977	100.00	50.00	6.00	2.332
1884	101.60	50.80	6.00	2.372
1941	101.60	25.40		0.972
1962	101.60	50.80	12.70	4.790
1965	101.60	50.80	9.53	3.676
1967	101.60	50.80	3.18	1.281
1968	101.60	50.80	6.35	2.504
1922	125.00	100.00		3.871
1947	127.00	50.80	6.35	2.939
1952	127.00	76.20	6.35	3.375
1964	127.00	50.80	9.53	4.330
1971	127.00	50.80	6.00	2.783
1629	150.00	100.00	1.00	6.537
1792	152.40	101.60	12.70	8.286
1885	152.40	76.20	6.00	3.606
1963	152.40	50.80	6.00	3.195
1973	152.40	76.20	12.70	7.496
1900	180.00	40.00	3.00	1.762
1630	200.00	138.00	8.00	7.128
1918	210.00	39.00	4.00	2.376
1632	216.00	112.00	12.00	10.238

Casement Windows 34mm Series

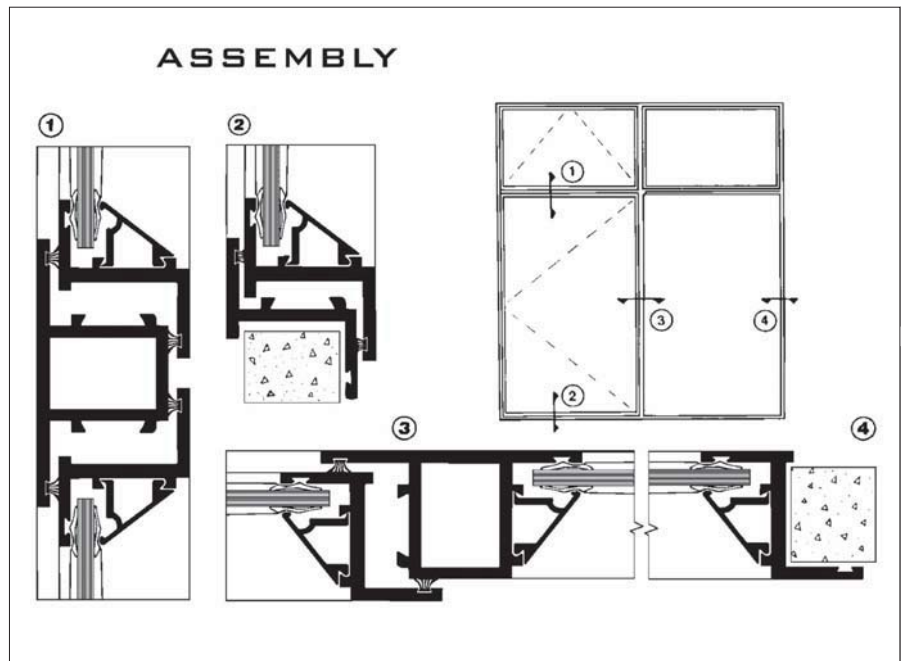
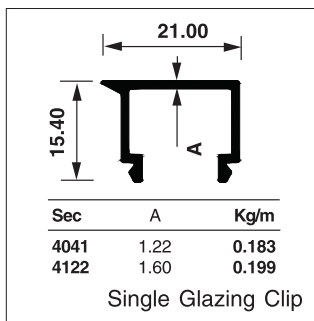
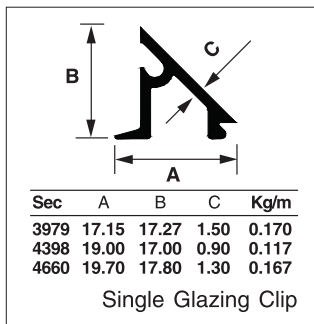
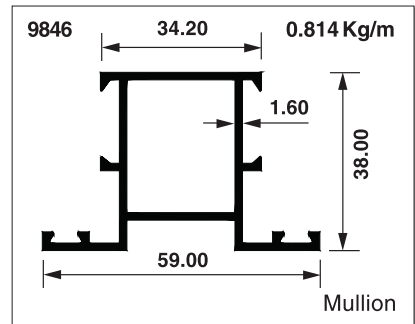
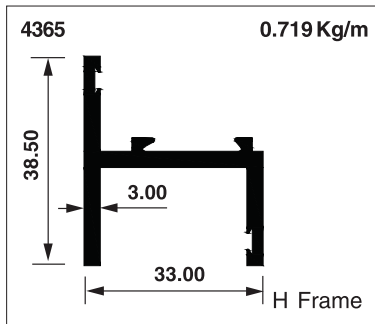
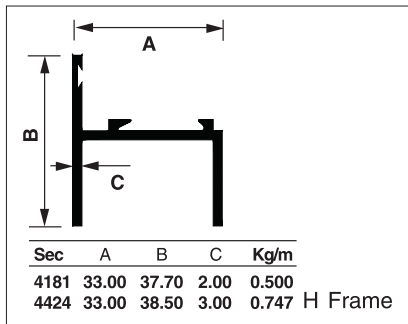
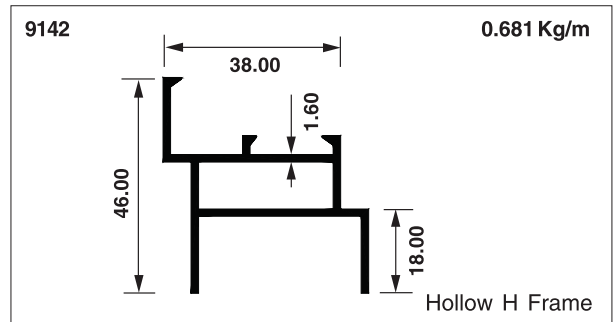
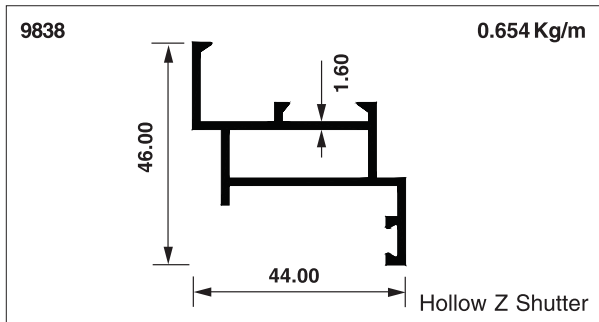
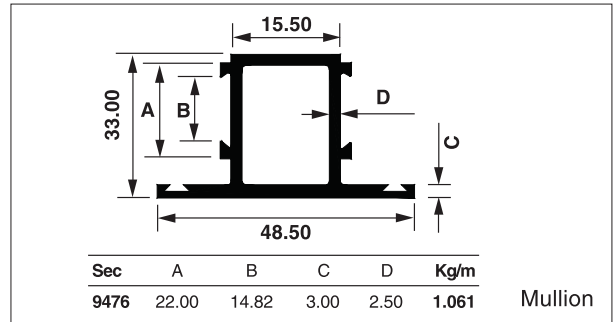
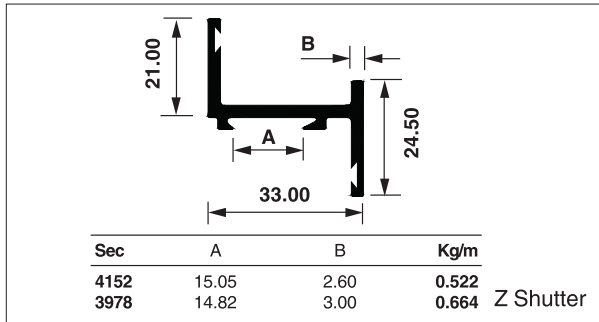




Casement Windows 40mm Series

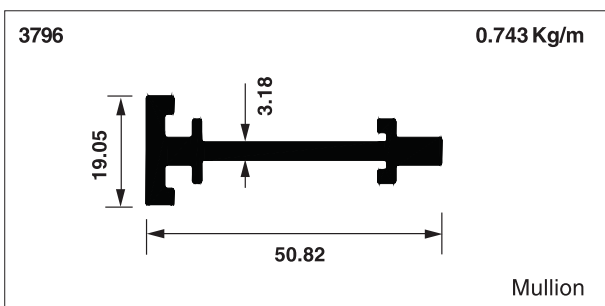
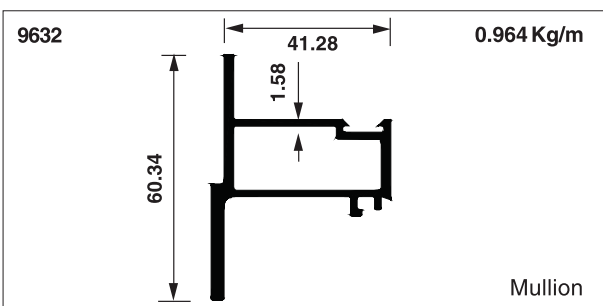
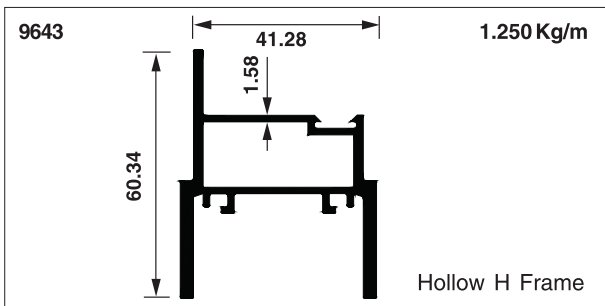
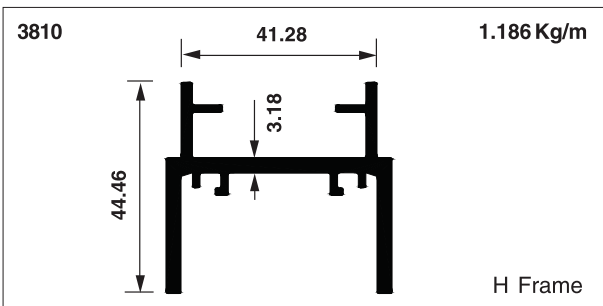
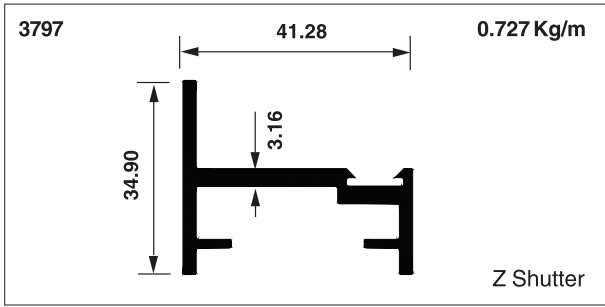
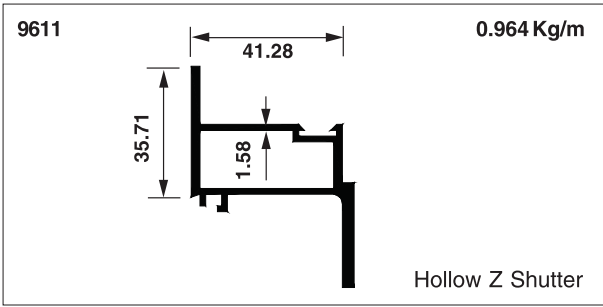


Casement Windows General Series

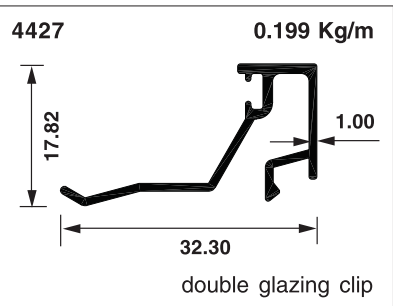
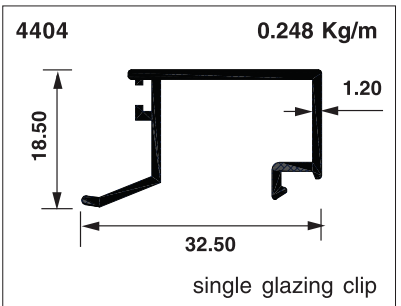
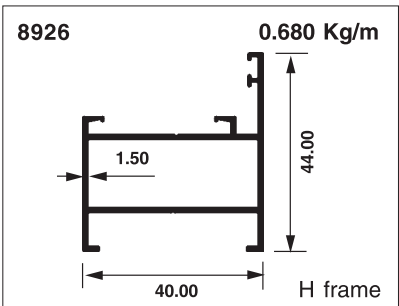
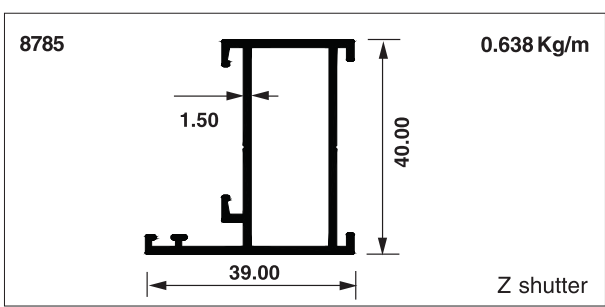
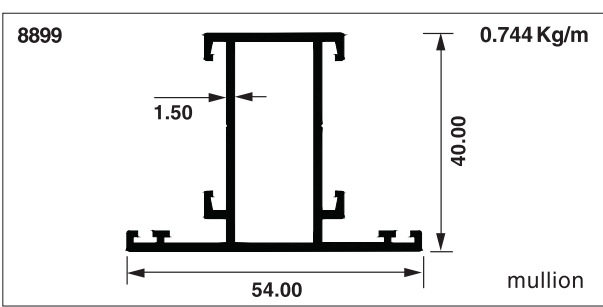




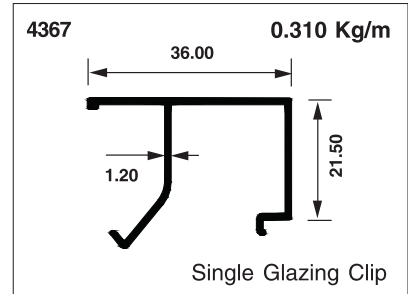
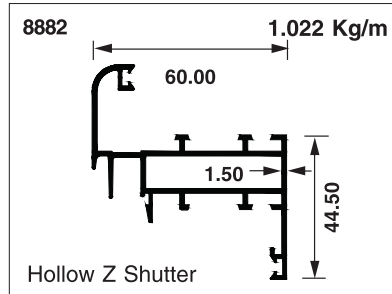
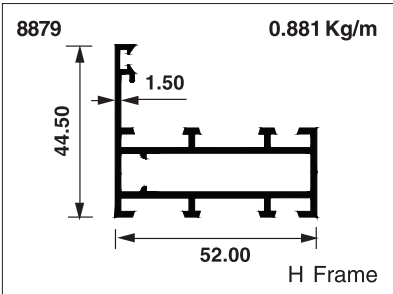
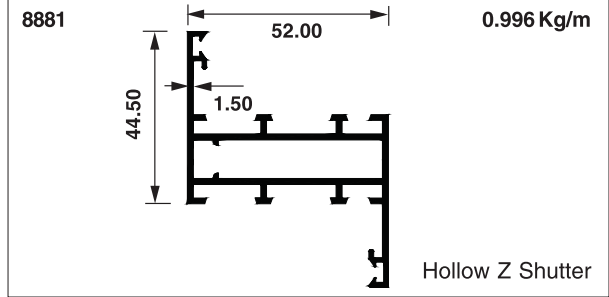
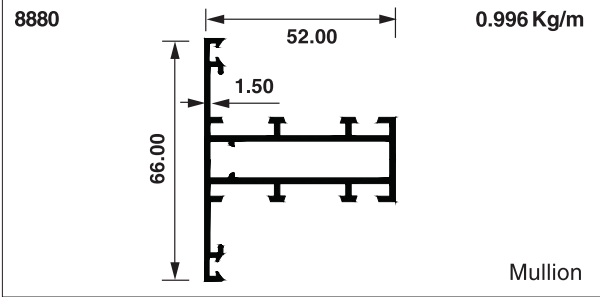
Casement Windows Heavy Series



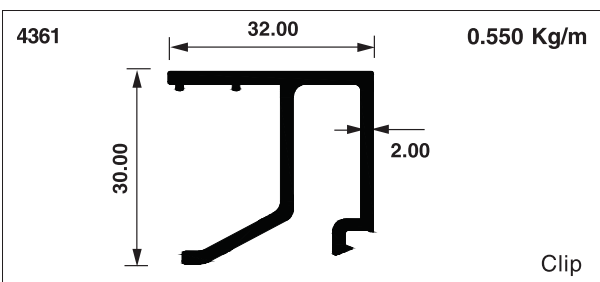
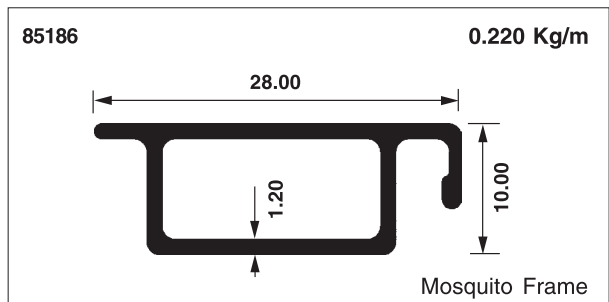
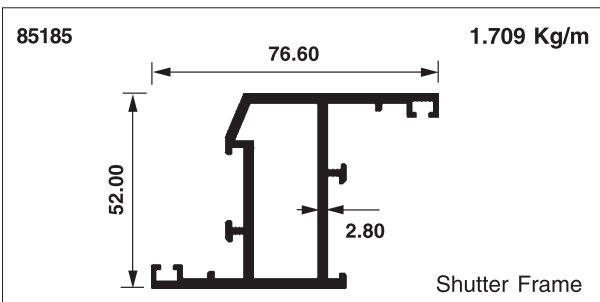
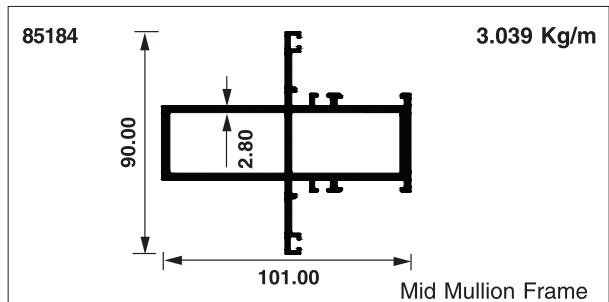
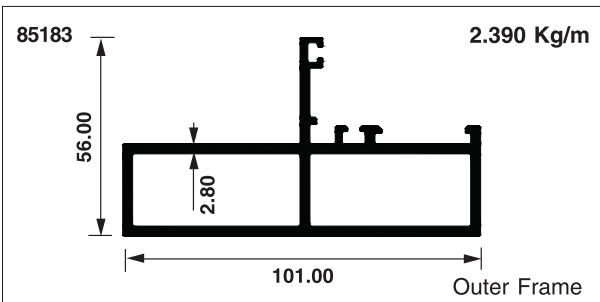
Casement Windows 40mm Super Series



Casement Windows 45mm Series

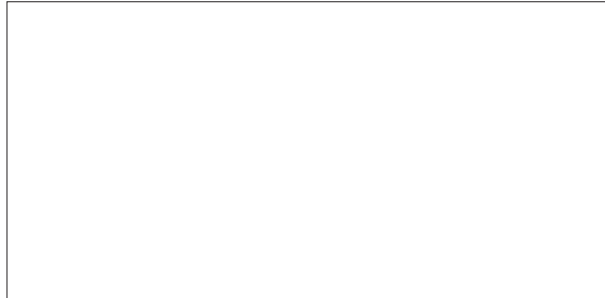
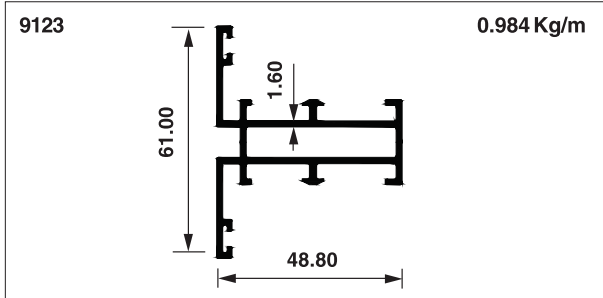
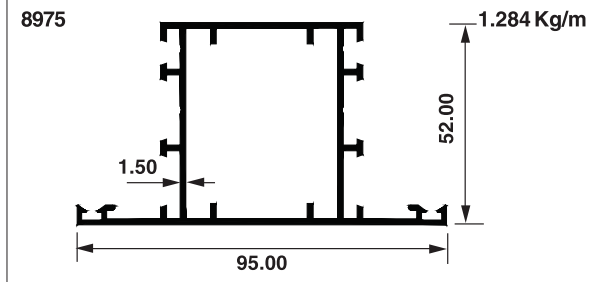
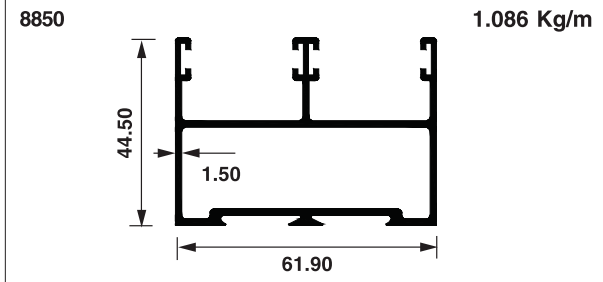


Casement Windows 100 mm Series

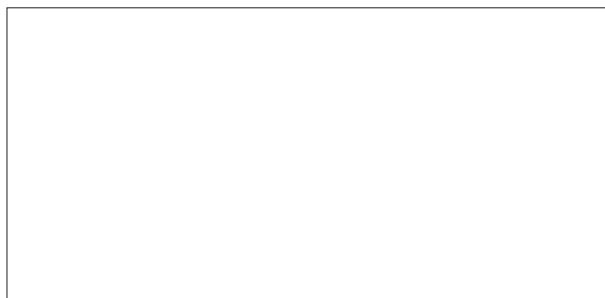
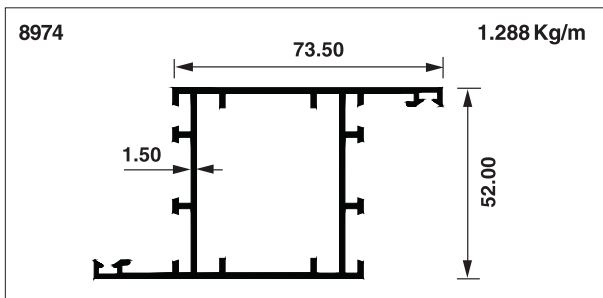
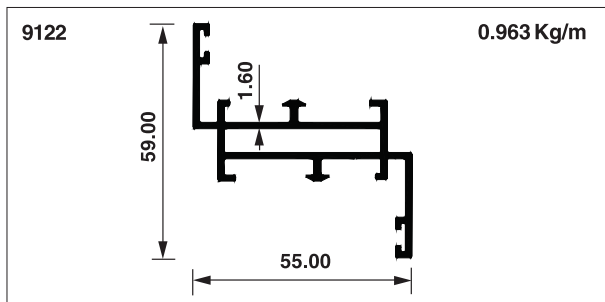
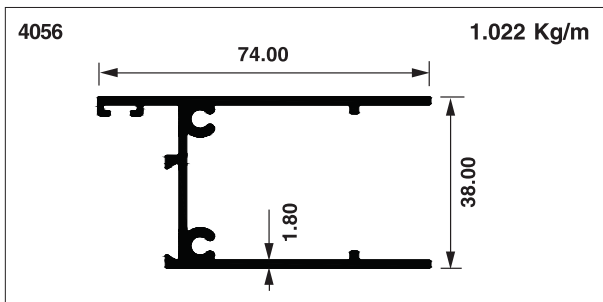
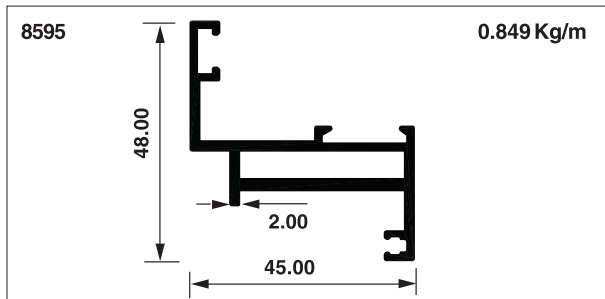
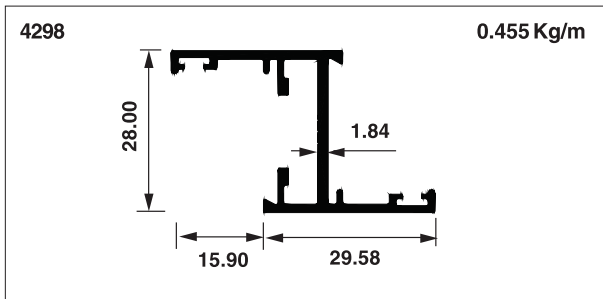




Casement Windows Mullion



Casement Windows Z Shutter

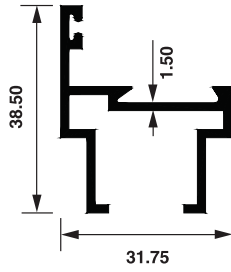


Casement Windows H Frame



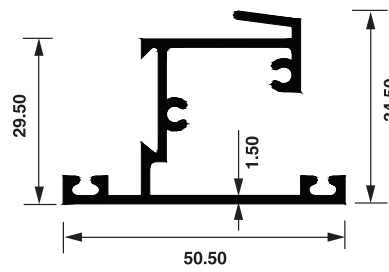
4127

0.496 Kg/m



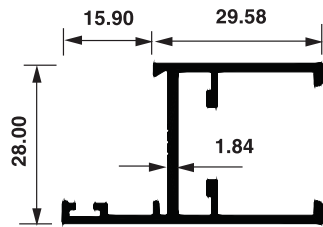
4130

0.689 Kg/m



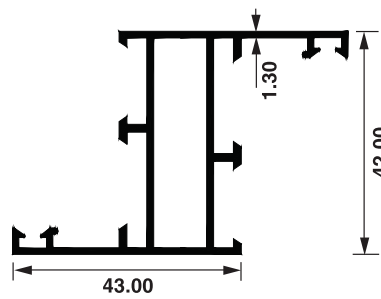
4297

0.519 Kg/m



8892

0.743 Kg/m

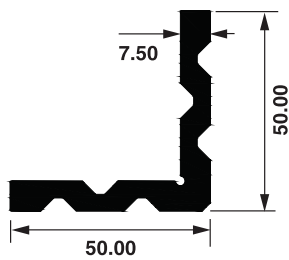


Casement Windows Crimping Angle



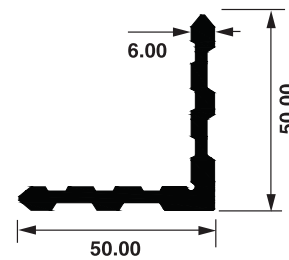
2050

1.564 Kg/m



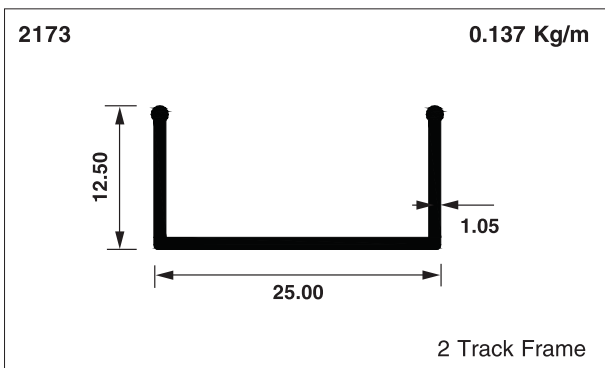
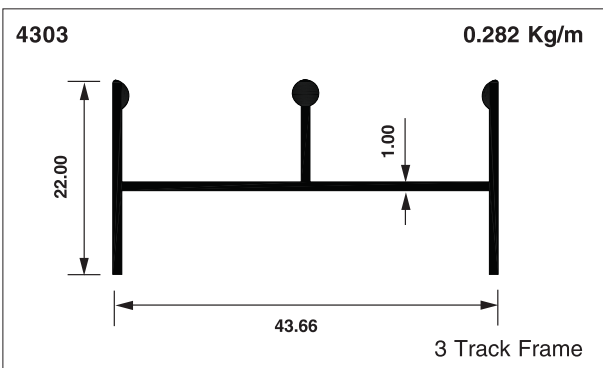
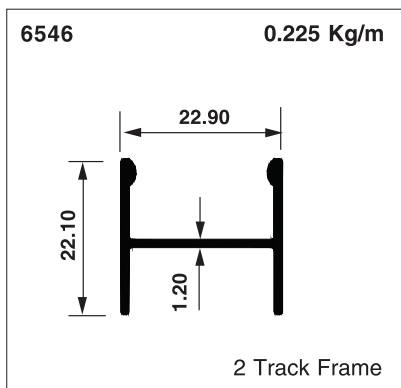
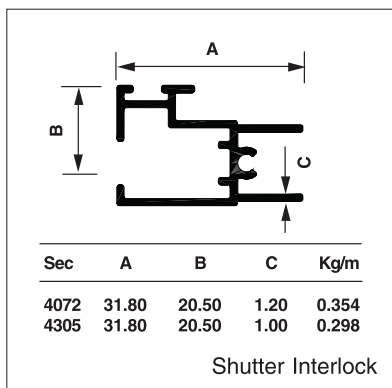
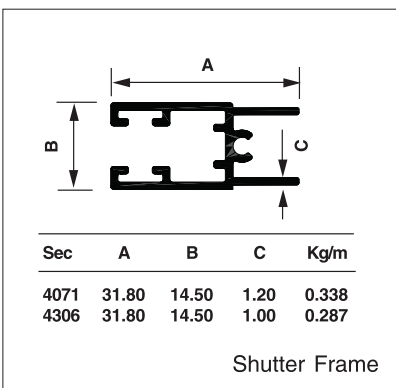
2051

1.173 Kg/m

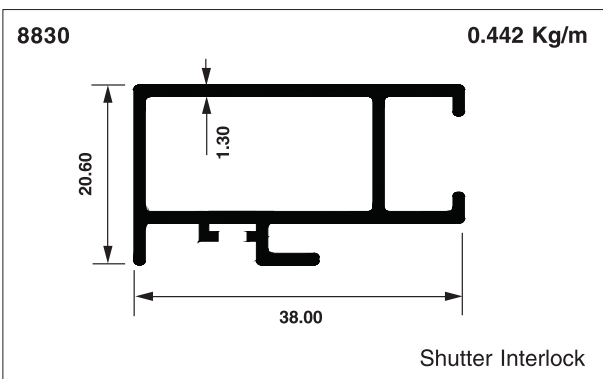
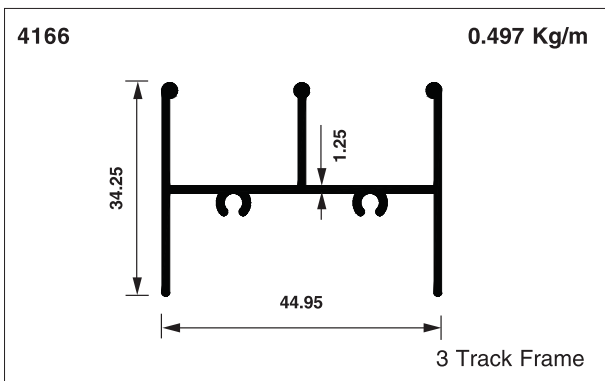
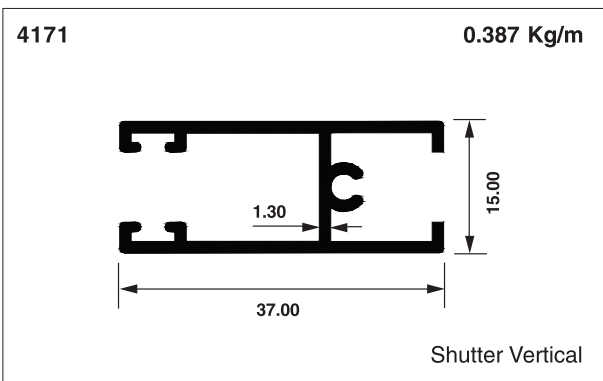




Sliding Windows 12mm Series



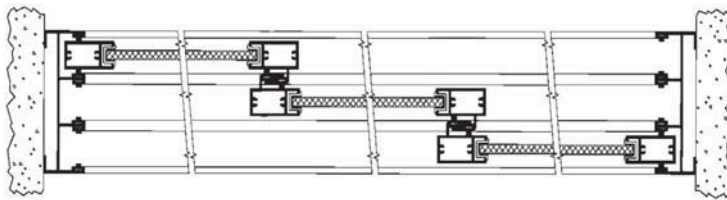
Sliding Windows 15mm Series



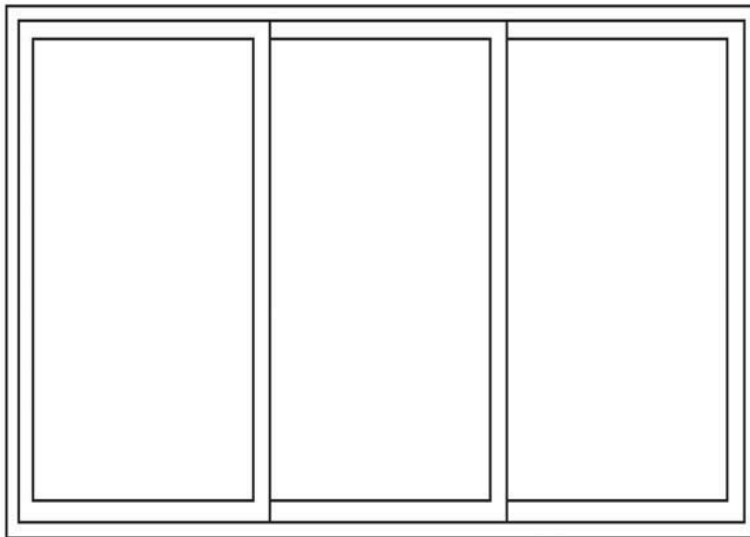
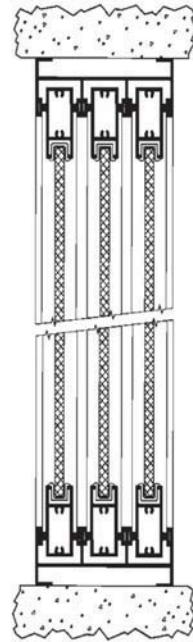


ASSEMBLY

Front View

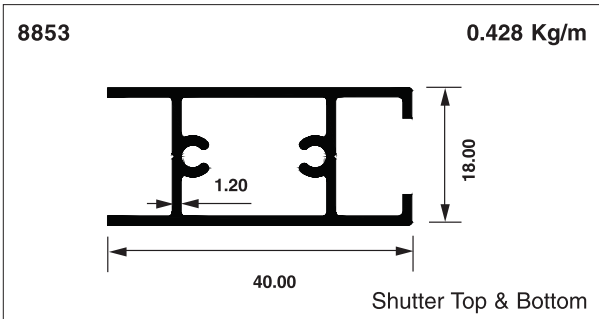
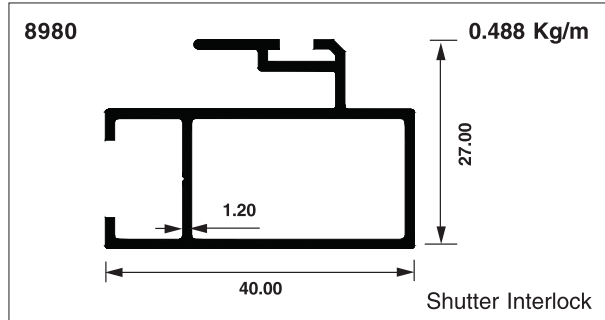
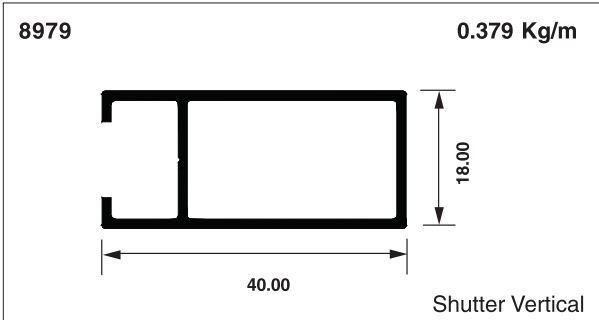
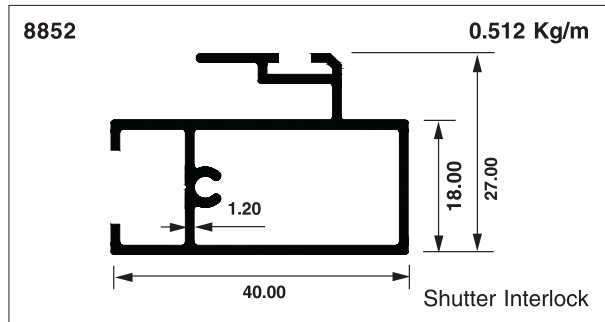
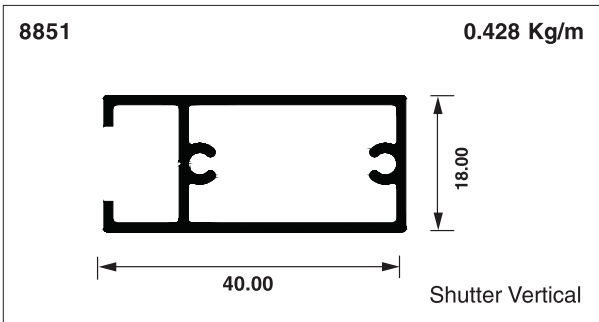
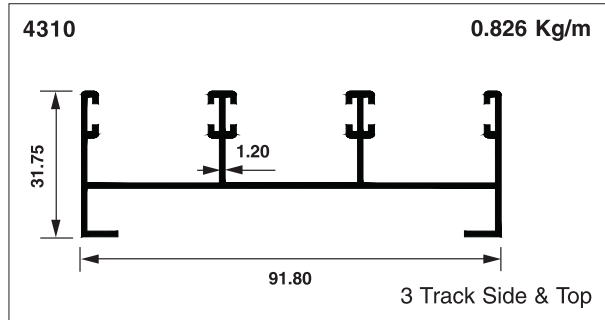
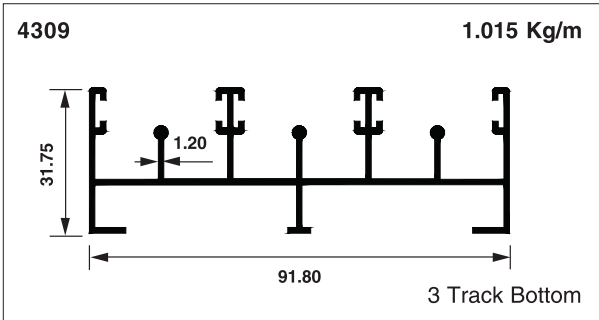
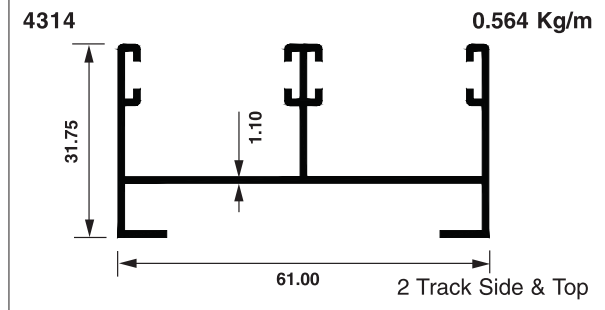
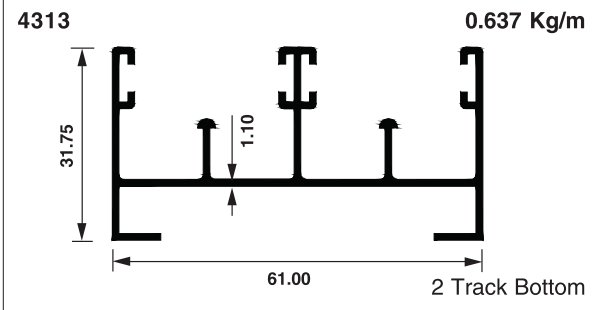


Side View





Sliding Windows 18mm Series



Sliding Windows 20mm Series



Sec	A	B	C	Kg/m
4095	61.98	29.70	1.60	0.875
4065	61.98	29.70	1.25	0.777

2 Track Bottom

Sec	A	B	C	Kg/m
4096	61.98	29.70	1.60	0.782
4066	61.98	29.70	1.25	0.685

2 Track Side & Top

Sec	A	B	C	Kg/m
4097	92.36	29.70	1.50	1.233
4087	92.36	29.70	1.20	1.032

3 Track Bottom

Sec	A	B	C	Kg/m
4098	92.36	29.70	1.50	1.070
4099	92.36	29.70	1.20	0.889

3 Track Side & Top

4121 **1.500 Kg/m**

4 Track Bottom

4120 **1.293 Kg/m**

4 Track Side & Top

3991 **1.168 Kg/m**

4 Track Bottom with Mesh Track

3990 **0.799 Kg/m**

Track Side with Mesh Track

9164 **1.098 Kg/m**

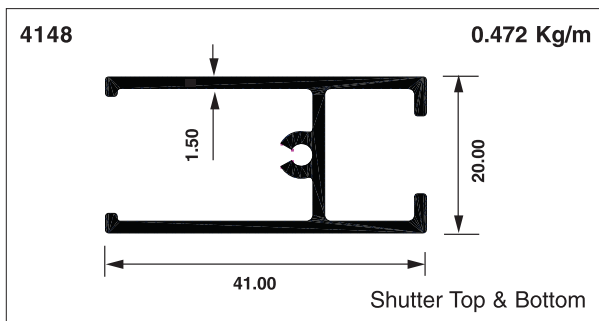
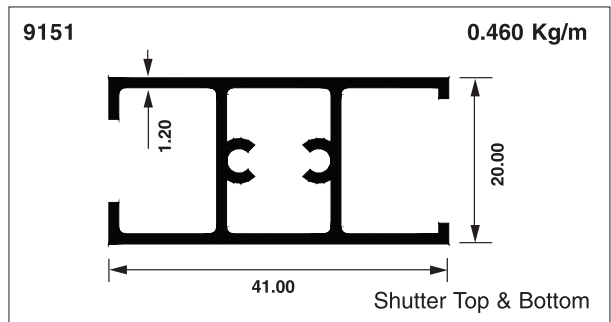
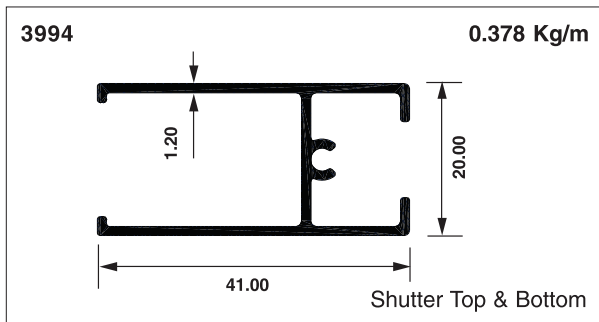
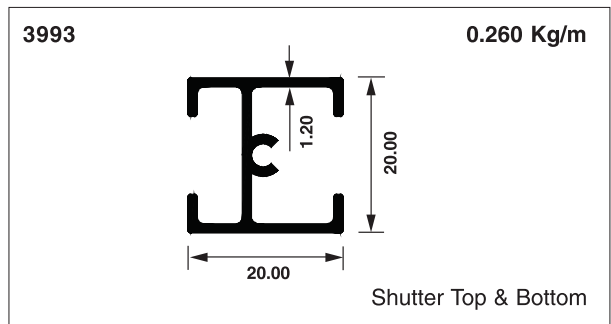
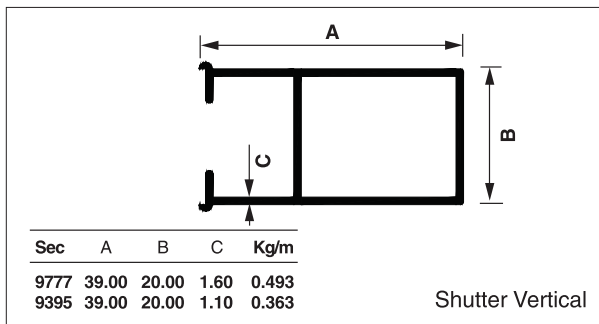
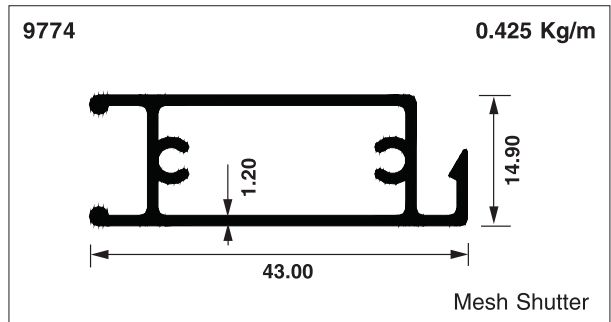
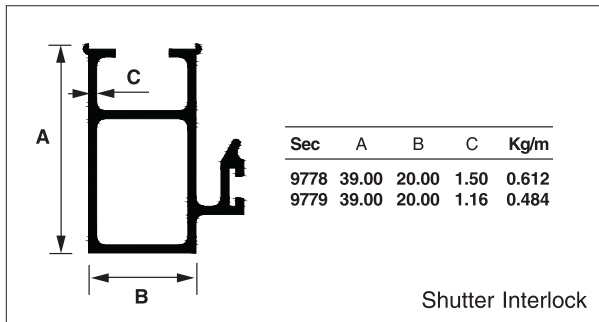
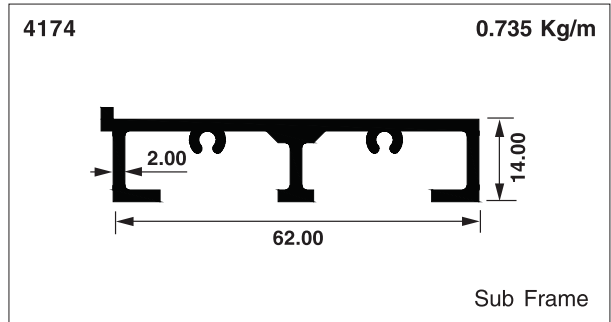
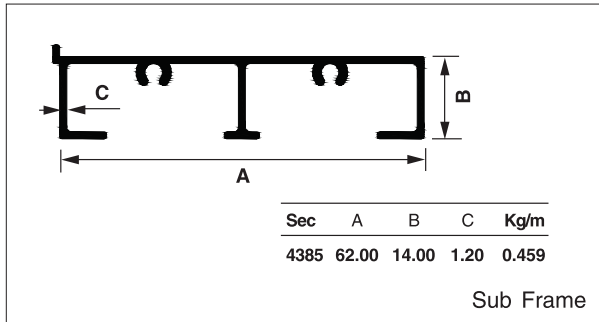
2 Track Bottom with Gutter

9140 **1.637 Kg/m**

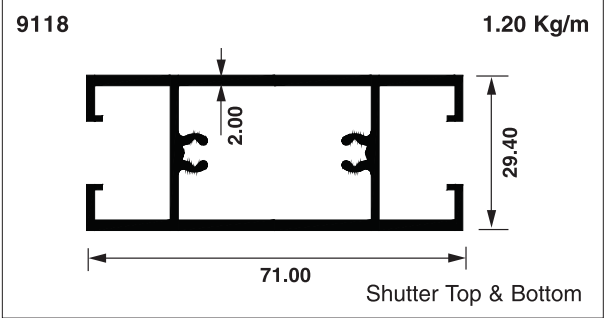
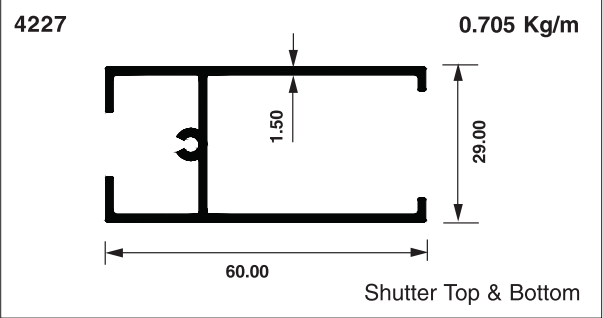
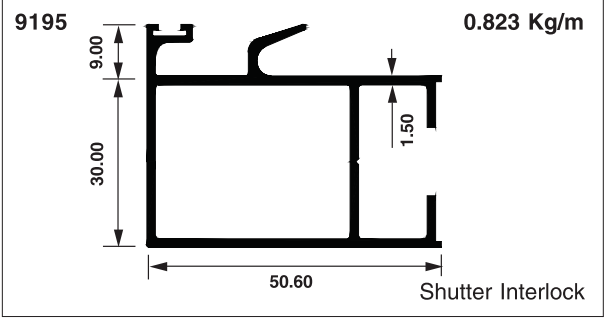
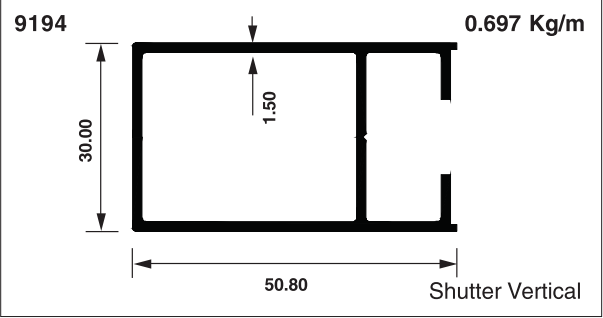
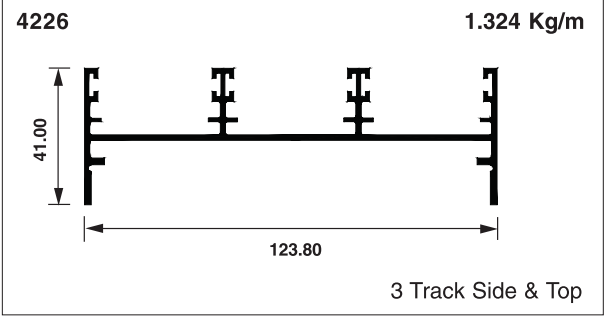
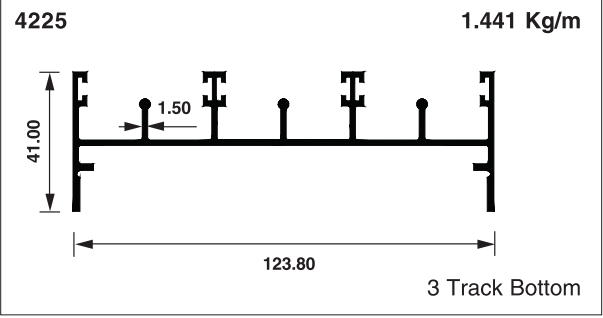
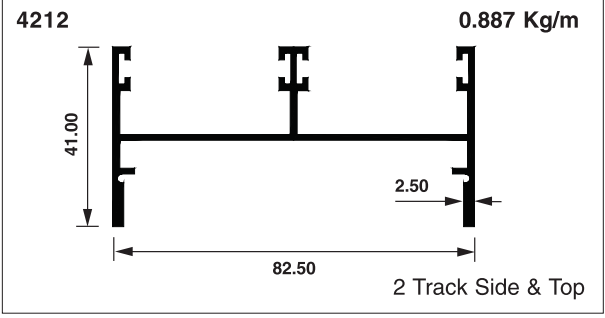
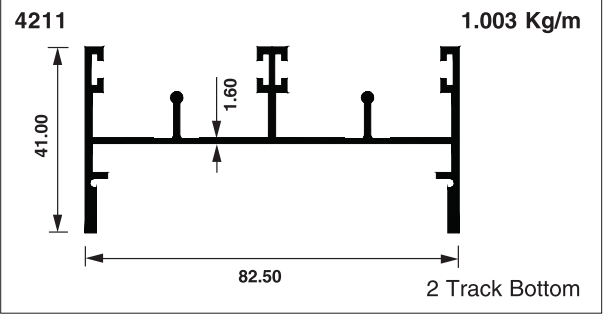
3 Track Bottom with Gutter & Sill



Sliding Windows 20mm Series

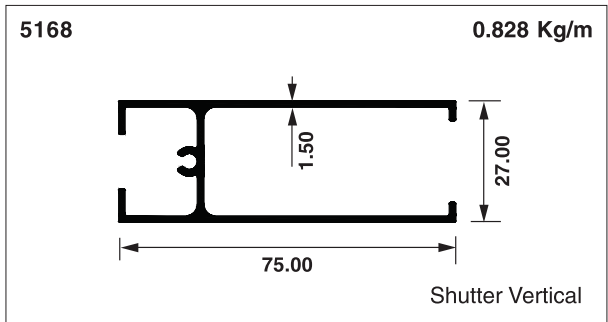
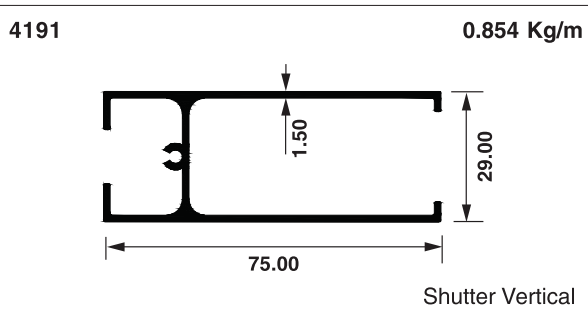
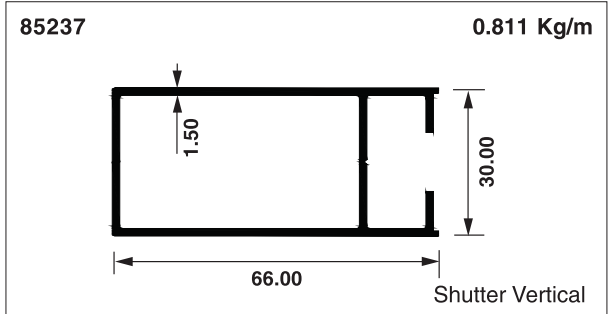
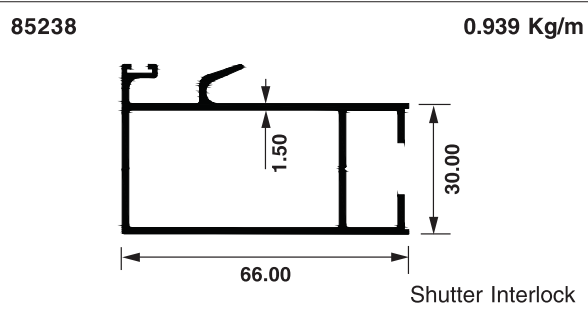
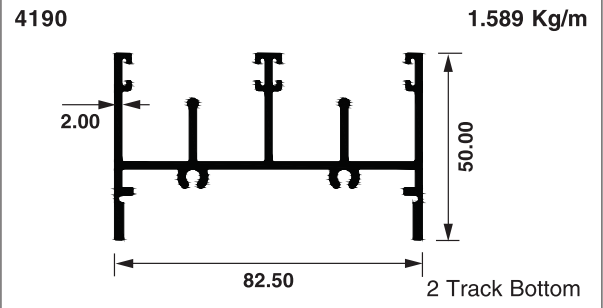
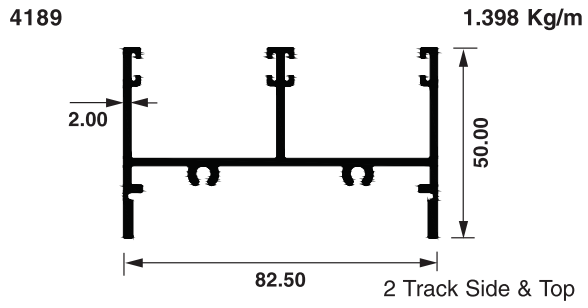


Sliding Windows 30mm Series

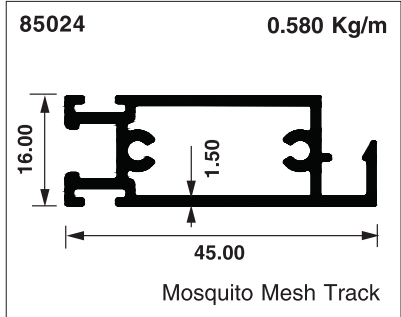
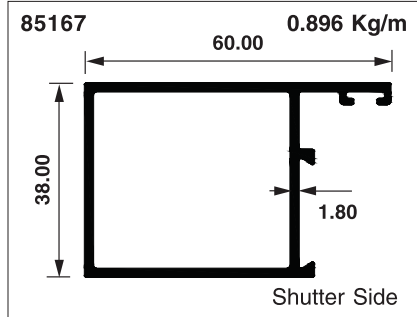
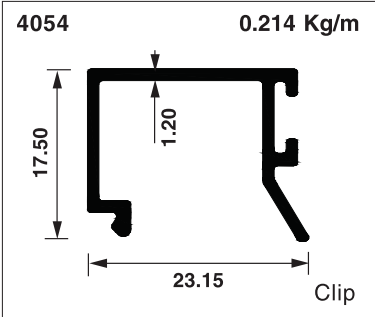
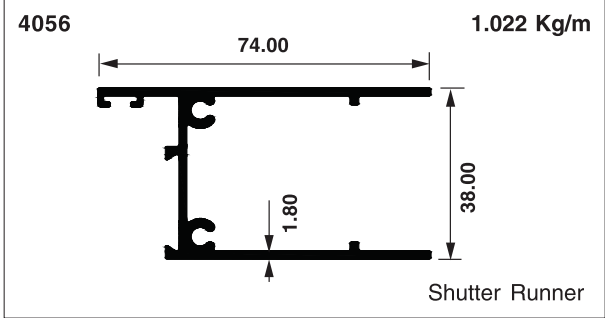
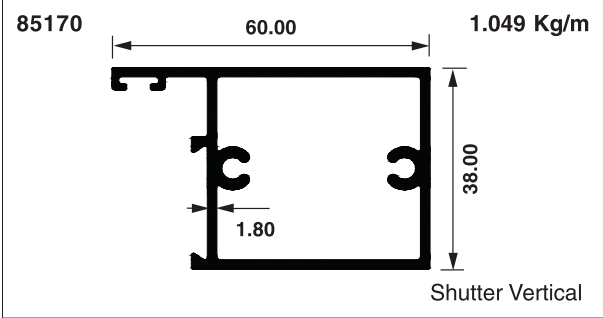
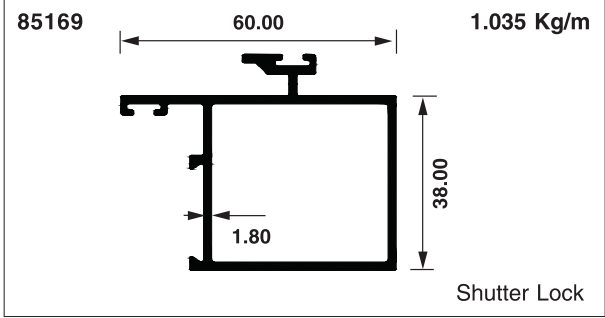
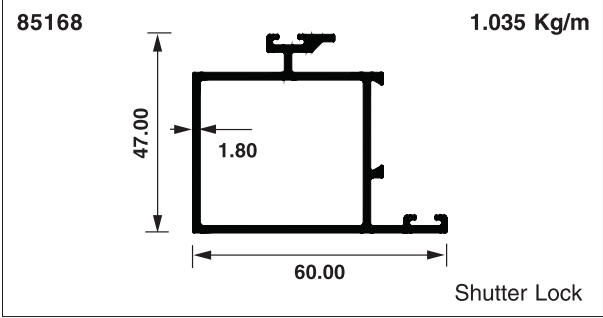
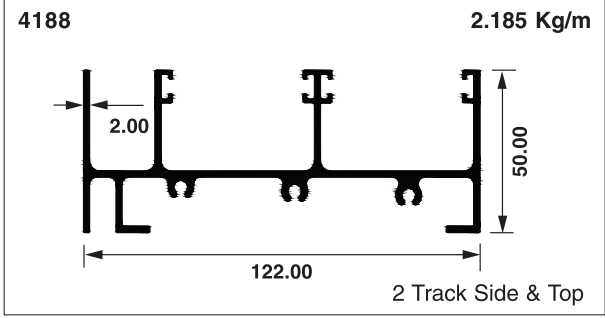
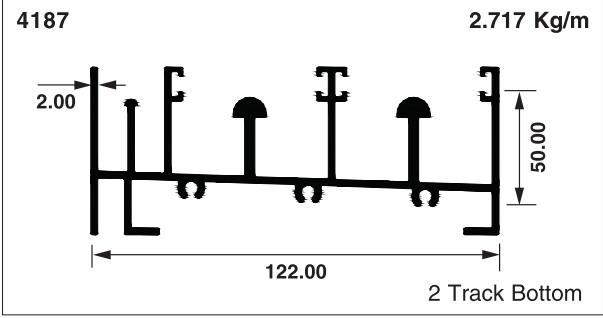
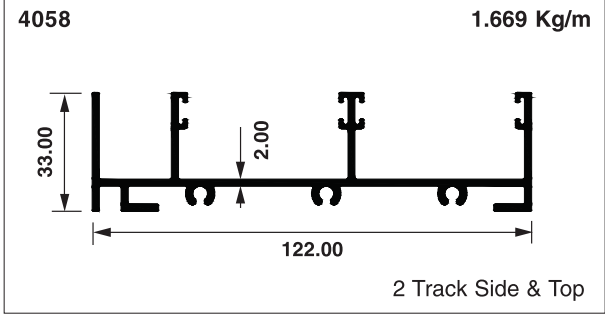
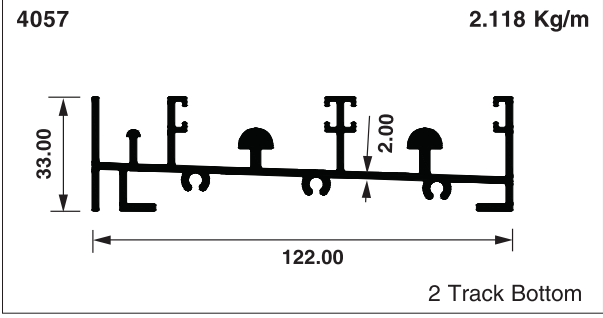




Sliding Windows 30mm Super Series



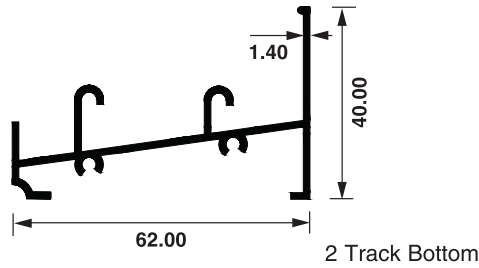
Sliding Windows 38mm Super Series





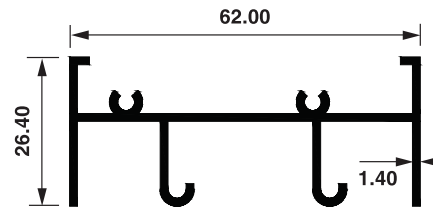
Sliding Windows Popular Series - I

4216 0.651 Kg/m



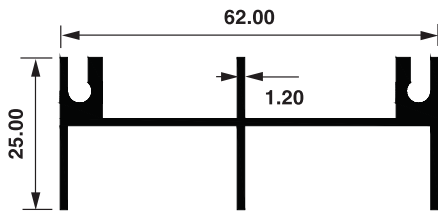
2 Track Bottom

4217 0.656 Kg/m



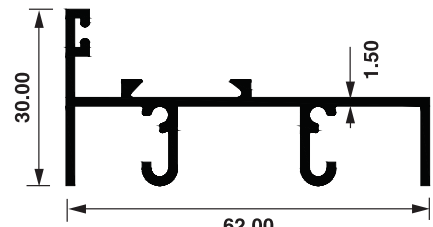
2 Track Top

4218 0.602 Kg/m



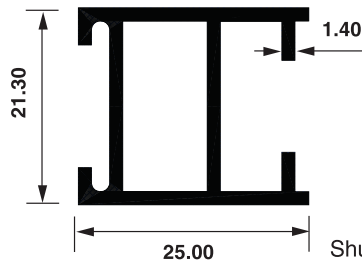
2 Track Side

4220 0.671 Kg/m



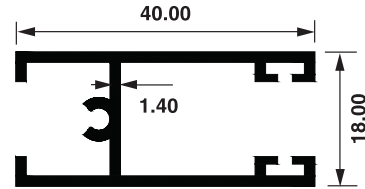
2 Track Top with Fixed Frame

9185 0.383 Kg/m



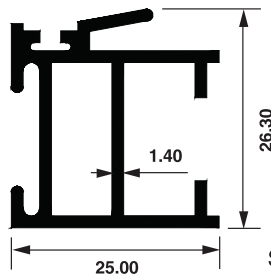
Shutter Vertical

4219 0.462 Kg/m



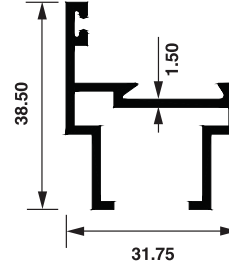
Shutter Top & Bottom

9186 0.464 Kg/m



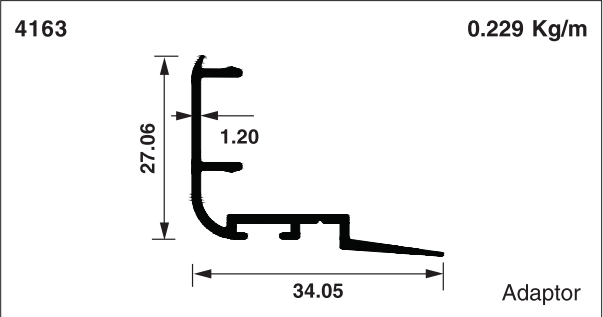
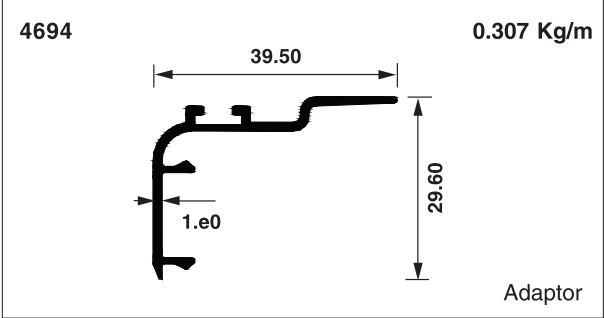
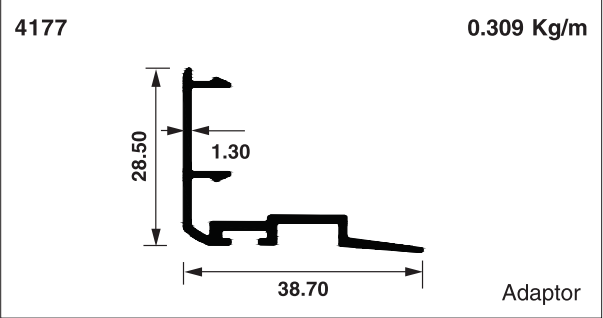
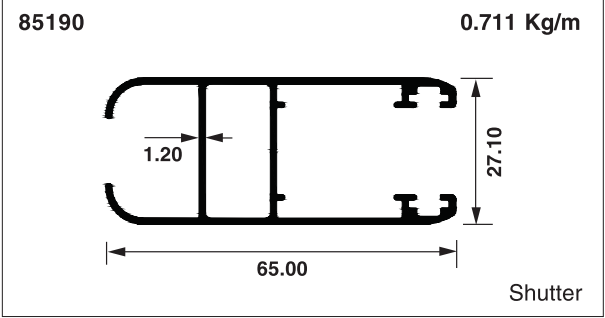
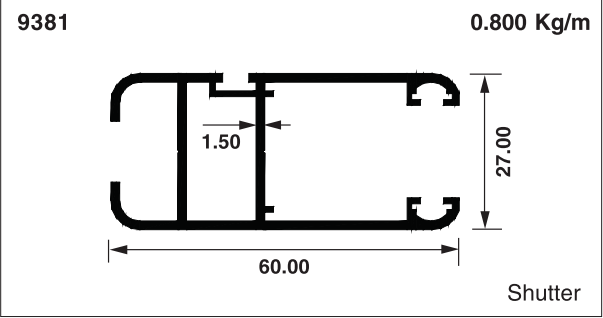
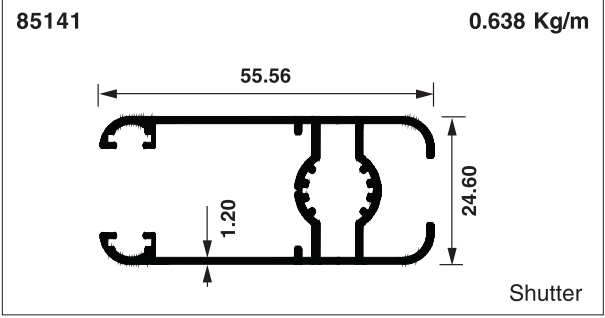
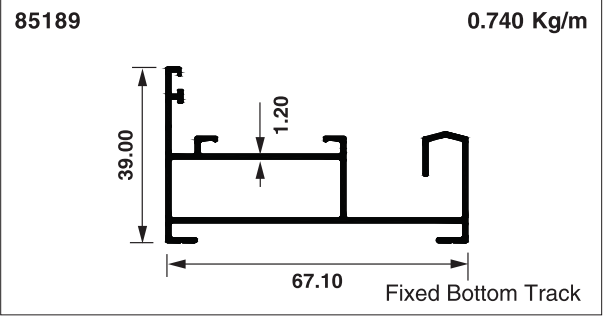
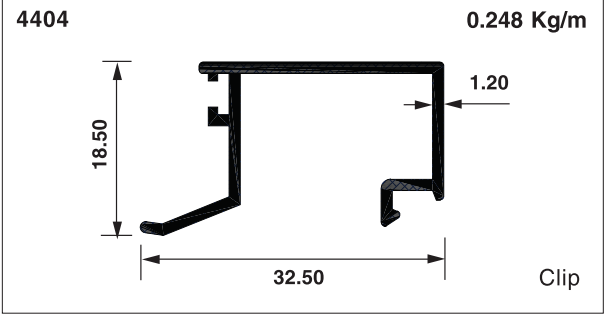
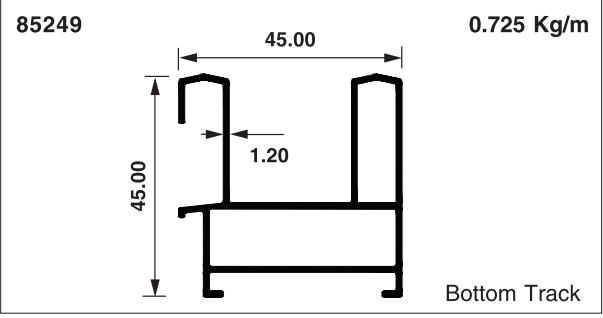
Shutter Interlock

4127 0.496 Kg/m



Fixing Clip

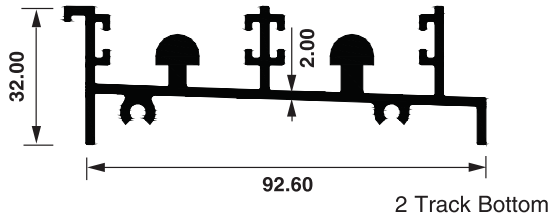
Sliding Windows Popular Series - II





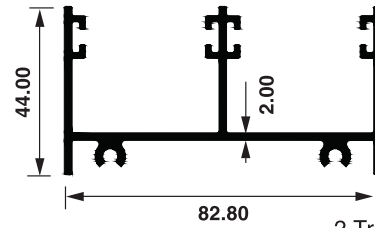
Sliding Doors 25mm Series

4319 1.742 Kg/m



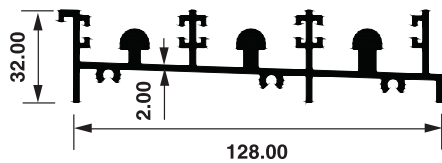
2 Track Bottom

4318 1.356 Kg/m



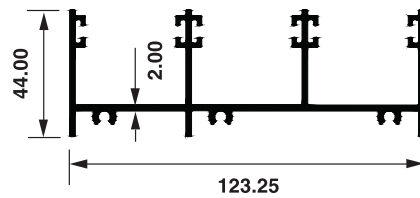
2 Track Side & Top

3961 2.494 Kg/m



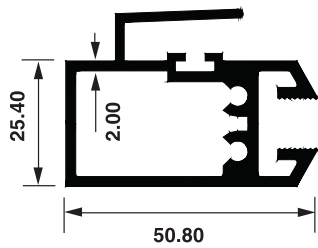
3 Track Bottom

3962 1.947 Kg/m



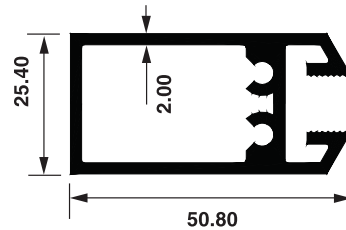
3 Track Side & Top

9767 1.227 Kg/m



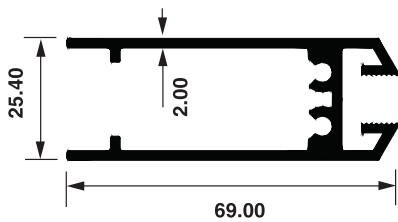
Shutter Interlock

9766 1.006 Kg/m



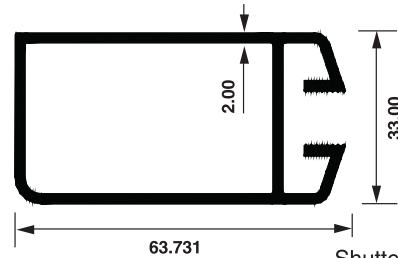
Shutter Vertical

3960 1.112 Kg/m

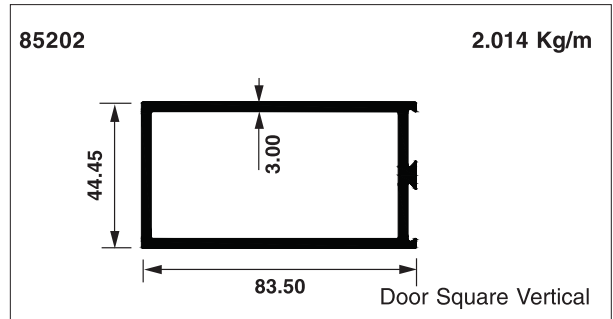
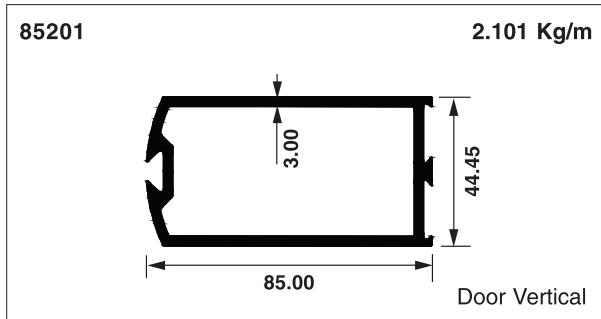
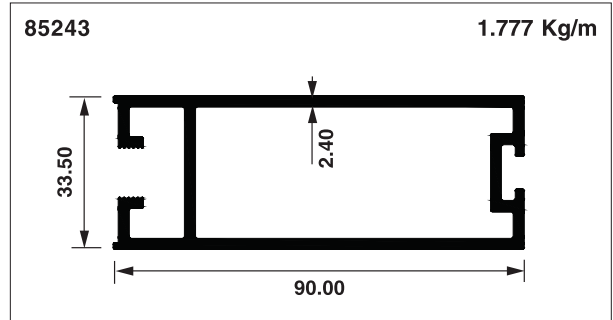
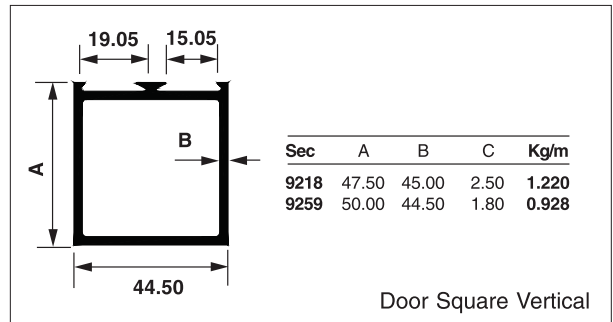
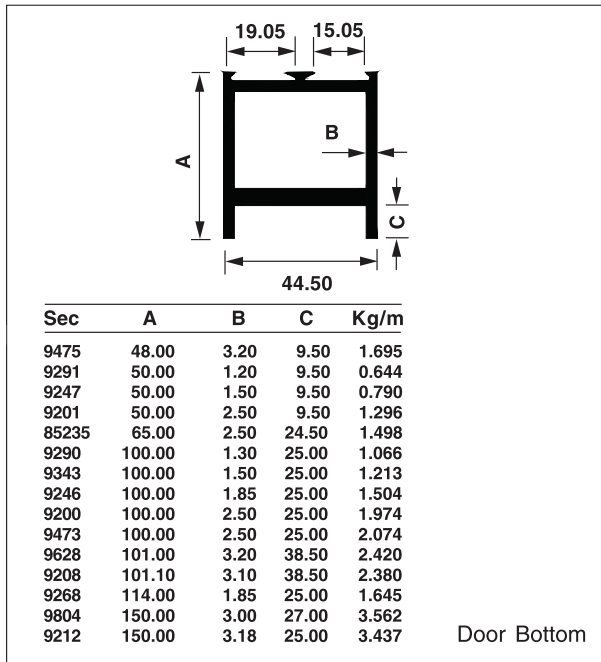
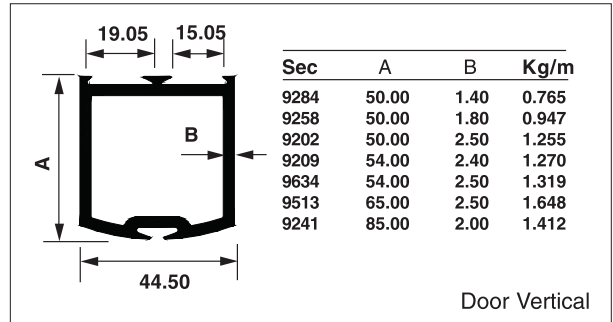
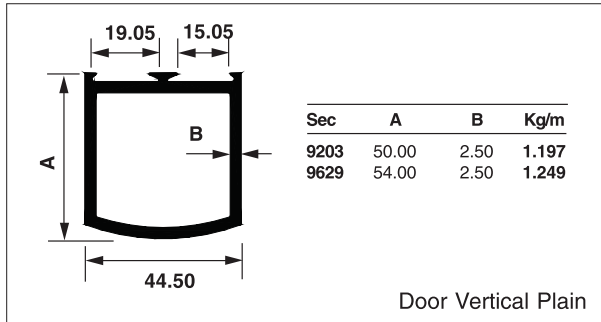
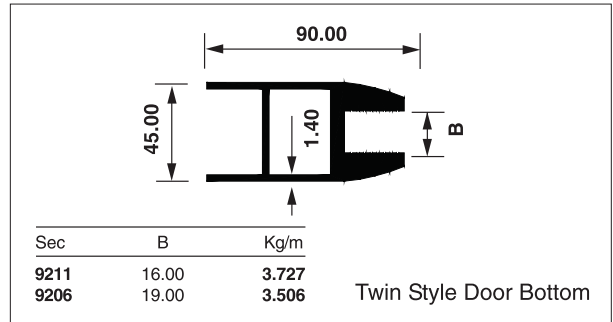
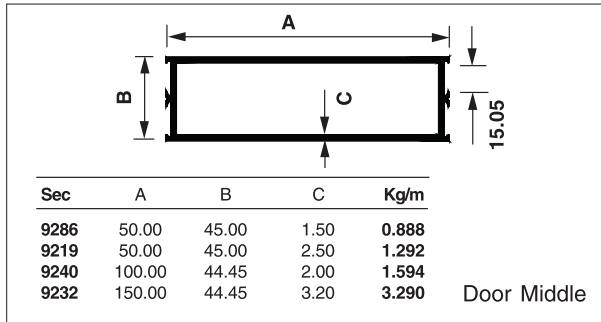


Shutter Top & Bottom

9768 1.124 Kg/m

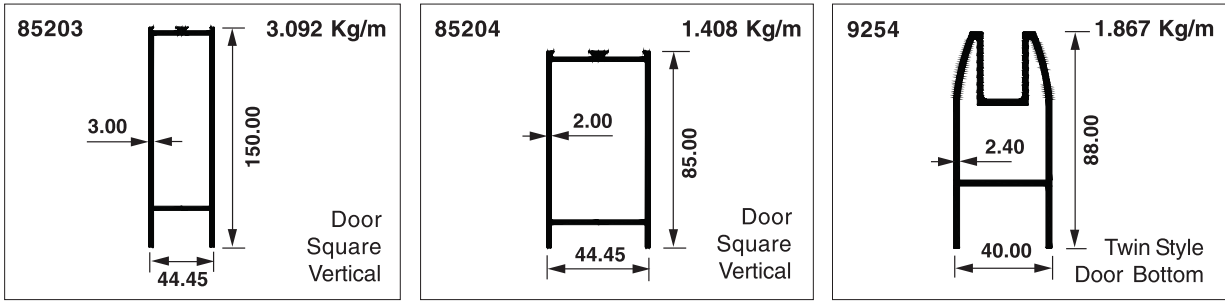


Shutter Vertical

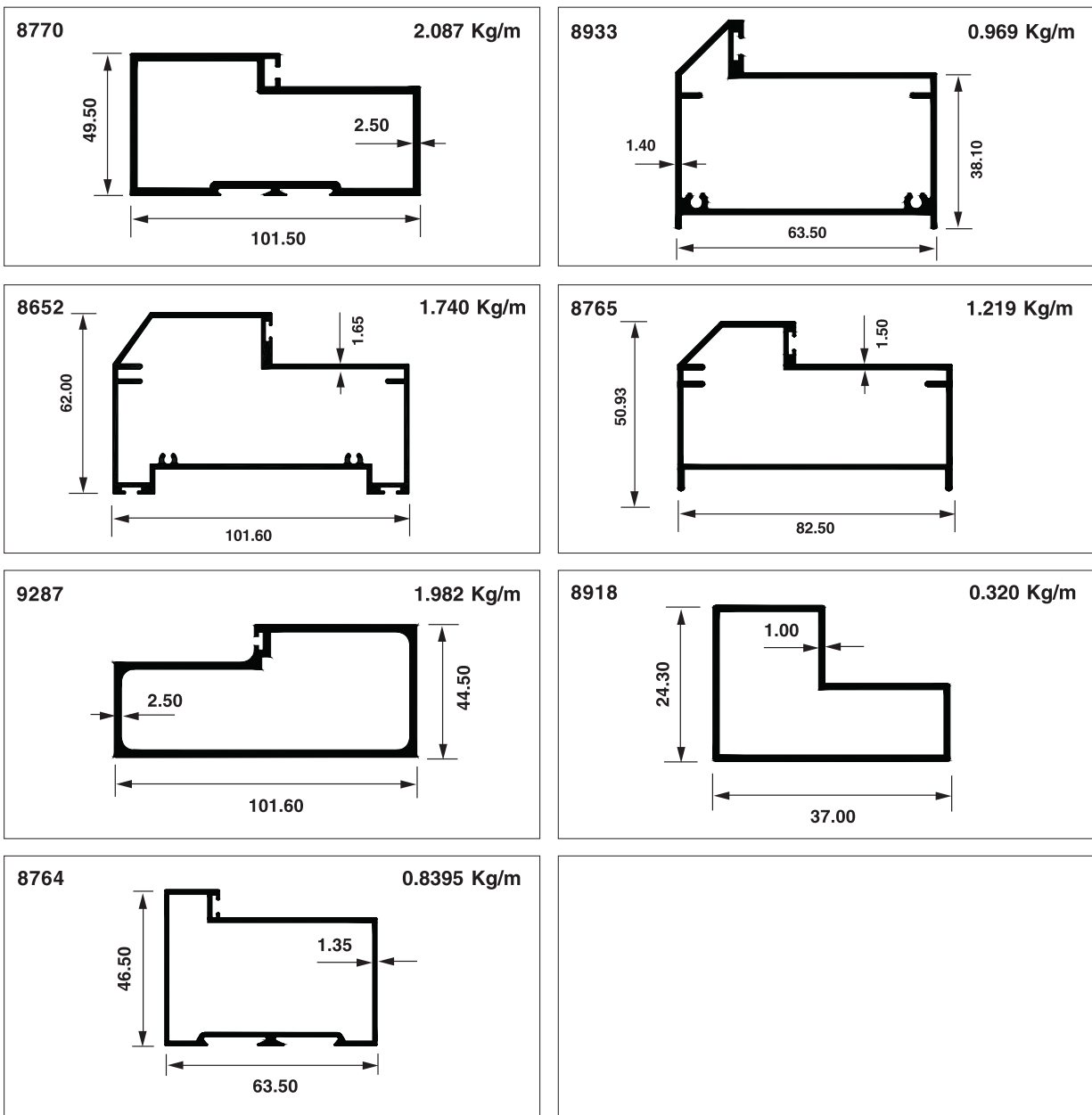




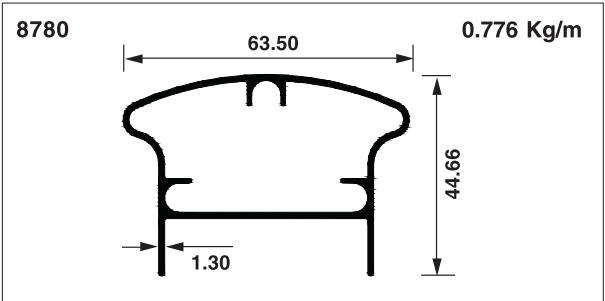
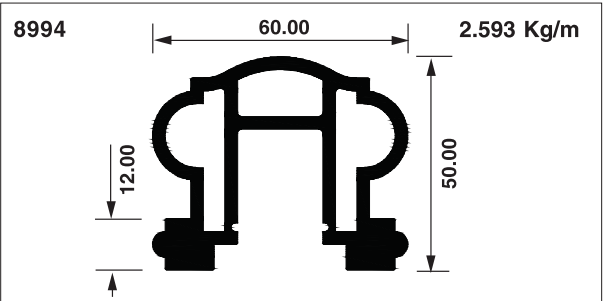
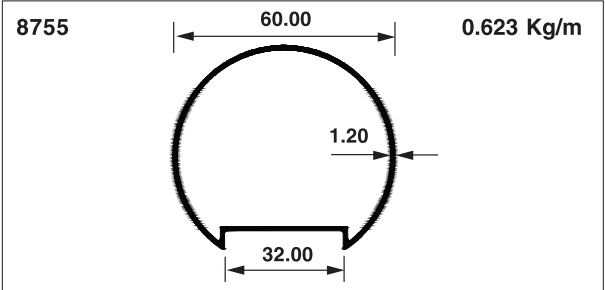
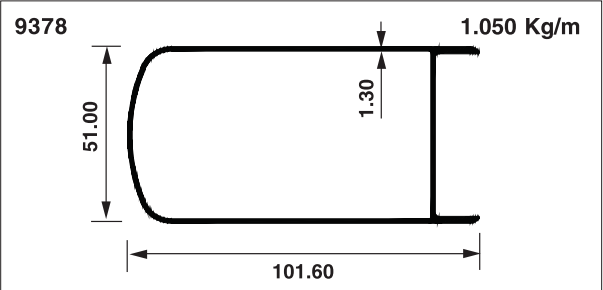
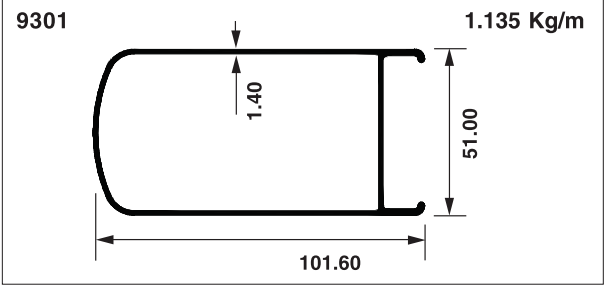
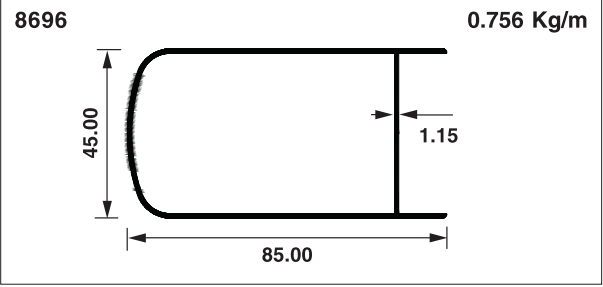
Doors



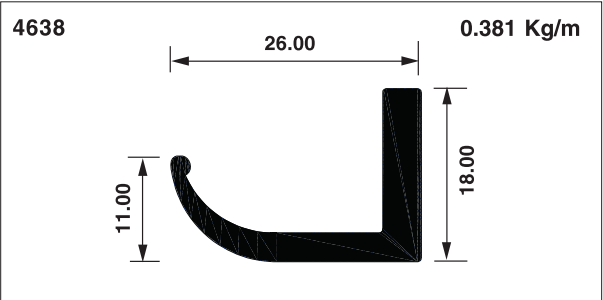
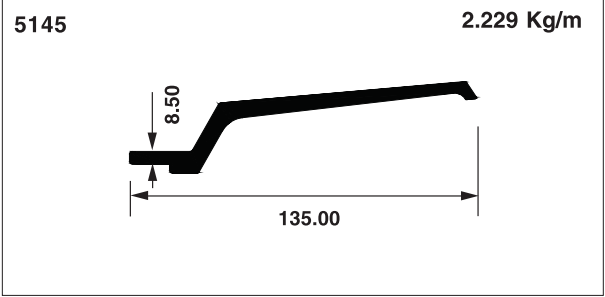
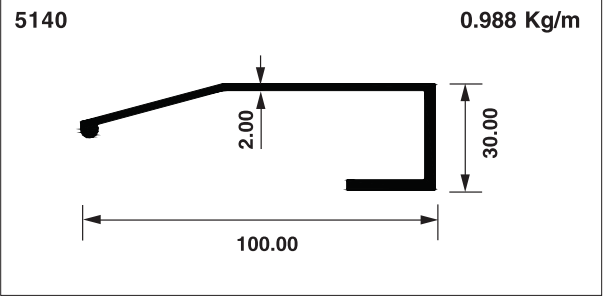
Door Steps



Hand Rails



Handles





Partitions

Sec	A	B	C	Kg/m
8945	50.20	24.80	1.00	0.441
9235	50.20	24.80	1.50	0.667
8849	50.80	24.80	1.20	0.520
9214	50.80	25.40	1.80	0.789
9245	61.90	36.50	1.20	0.698
9238	62.50	37.10	1.50	0.855
8903	63.50	38.10	1.15	0.672
8890	63.50	38.10	1.28	0.740
9223	63.50	38.10	2.00	1.126
9210	63.50	38.10	2.50	1.378
9231	88.90	31.75	2.50	1.630
9282	101.50	44.45	1.50	1.234
9248	101.50	44.45	2.00	1.609
9221	101.50	44.45	2.50	1.978
9205	101.50	44.45	3.00	2.342

Single Partition

Sec	A	B	C	Kg/m
8944	50.20	24.80	1.00	0.489
8848	50.20	24.80	1.20	0.575
9236	50.20	24.80	1.50	0.748
9215	50.80	25.40	1.80	0.870
9244	61.90	36.50	1.20	0.764
9237	62.50	37.10	1.50	0.925
8904	63.50	38.10	1.15	0.724
8889	63.50	38.10	1.28	0.793
9295	63.50	38.10	1.80	1.076
9222	63.50	38.10	2.00	1.206
9207	63.50	38.10	2.50	1.424
9230	88.90	31.75	2.50	1.679
9283	101.50	44.45	1.50	1.306
9249	101.50	44.45	2.00	1.685
9220	101.50	44.45	2.50	2.005
9204	101.50	44.45	3.00	2.420

Double Partition

Sec	A	B	C	Kg/m
4291	50.80	25.40	1.20	0.448
4047	63.50	38.10	2.00	0.892

Split Partition

Sec	A	B	C	Kg/m
9228	101.50	44.45	2.50	2.030

Double Glazing Double Partition

Sec	A	B	C	Kg/m
9229	101.50	44.45	2.50	2.001

Double Glazing Single Partition

Partitions



Sec	A	B	C	D	Kg/m
9224	101.60	44.45	2.60	12.700	2.067
9548	101.60	44.45	3.18	12.700	2.508

9243 0.952 Kg/m

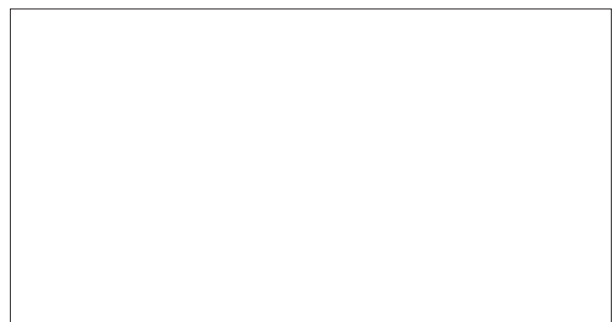
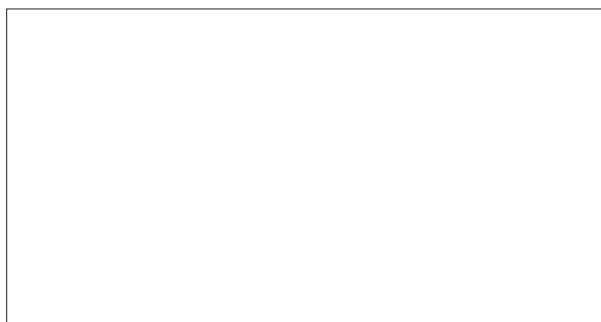
Bay Window Partition

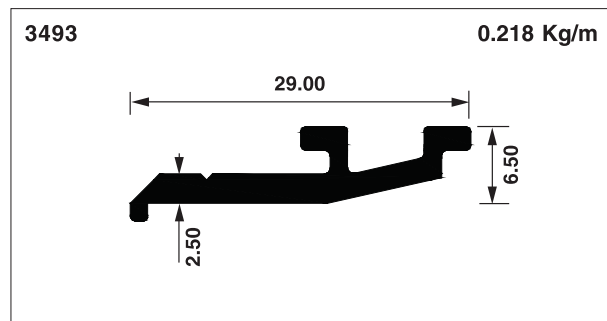
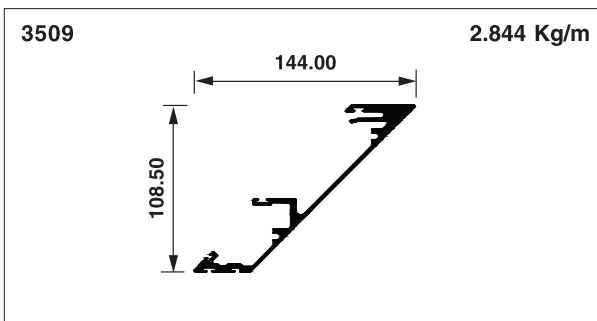
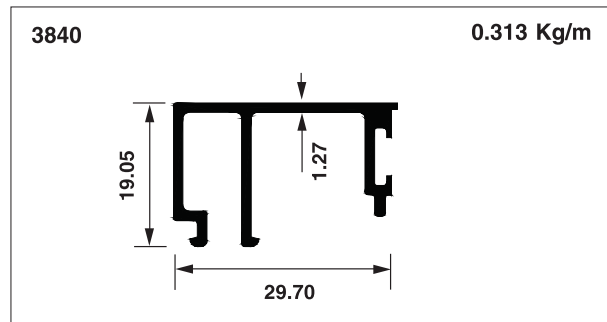
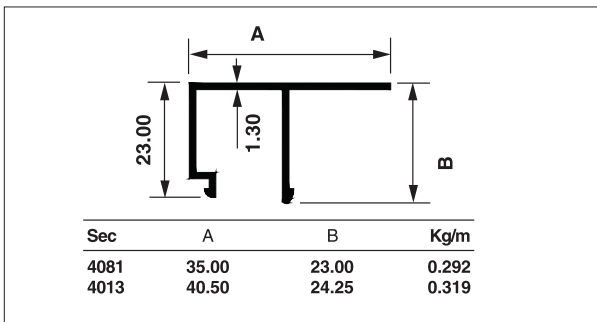
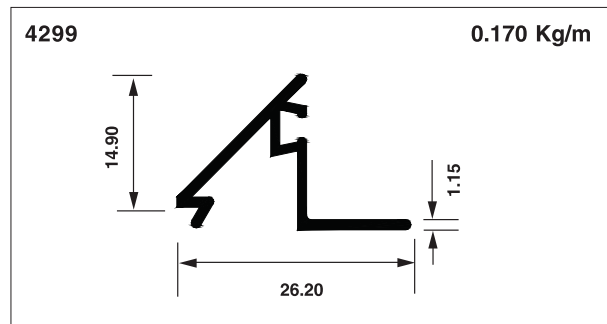
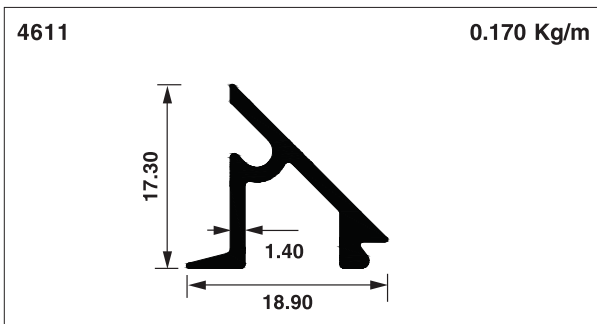
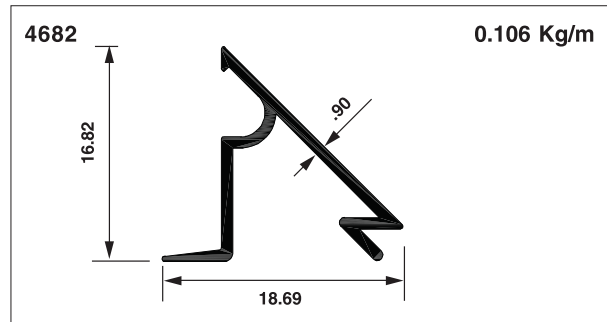
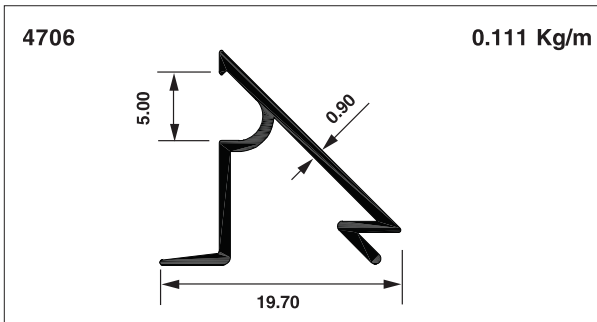
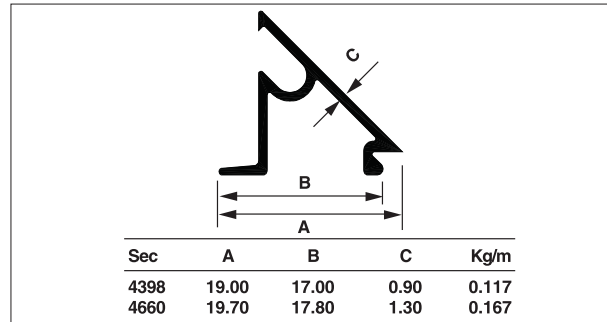
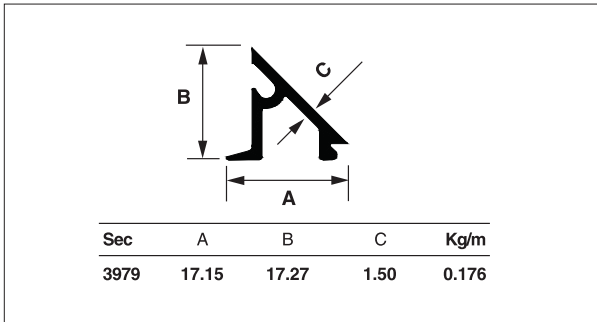
9116 1.092 Kg/m

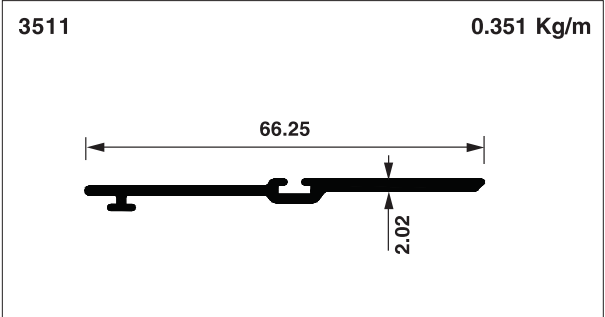
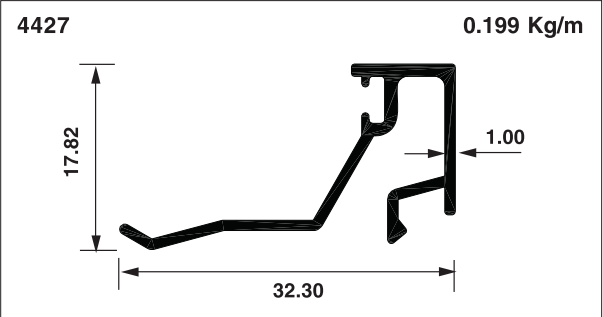
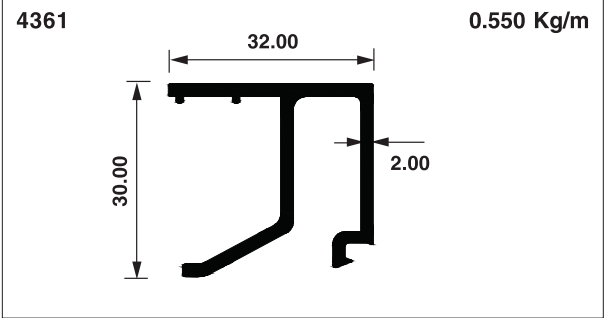
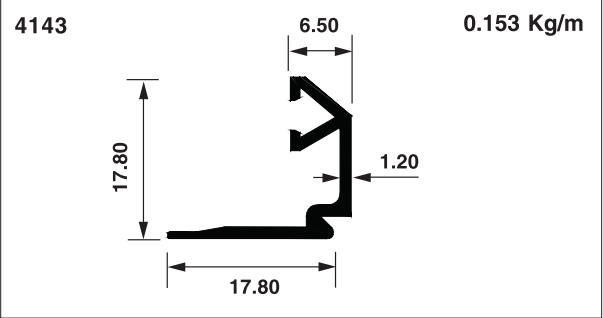
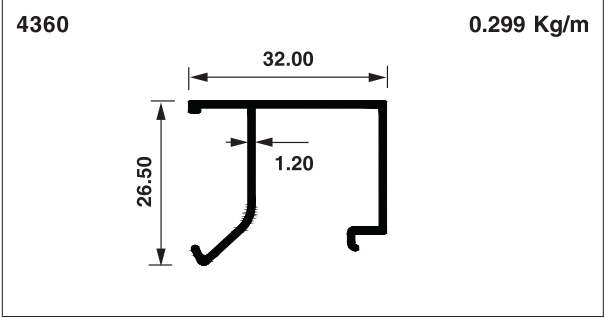
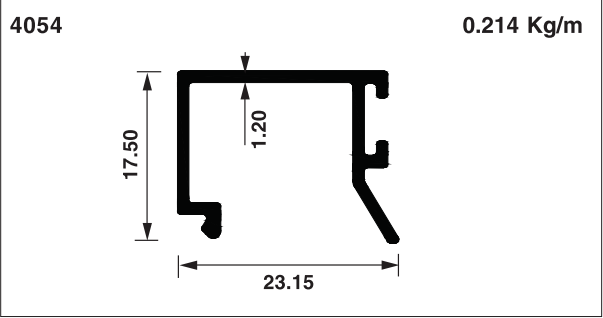
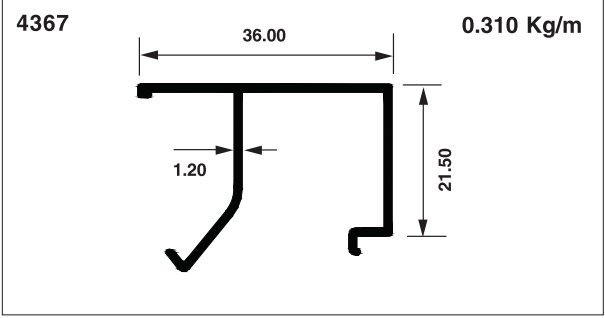
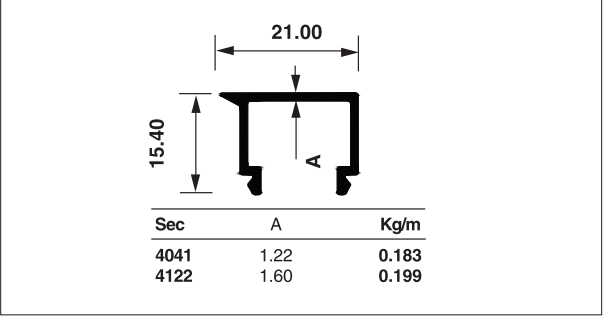
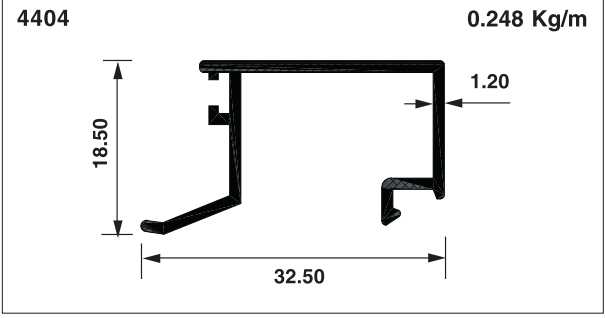
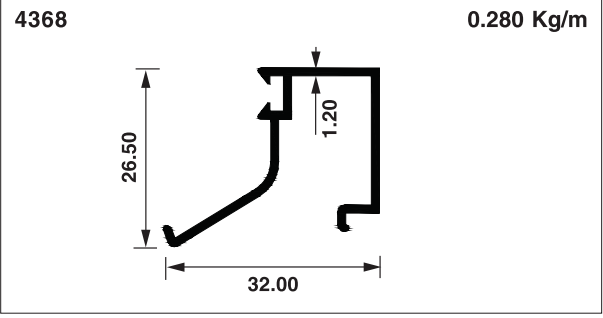
9117 1.218 Kg/m

9312 1.472 Kg/m

Corner Partition

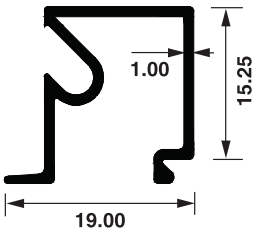
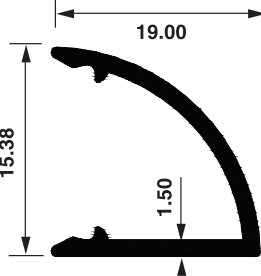
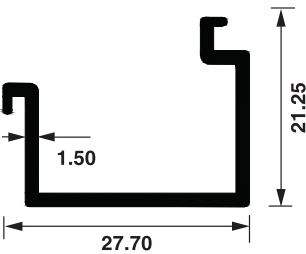

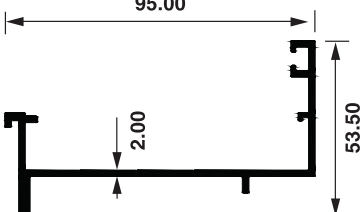

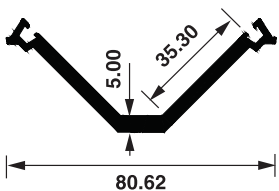
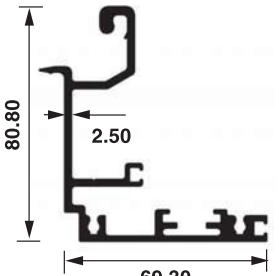
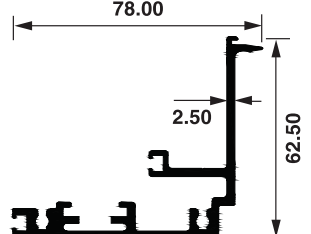
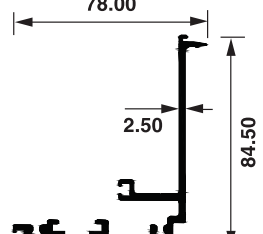


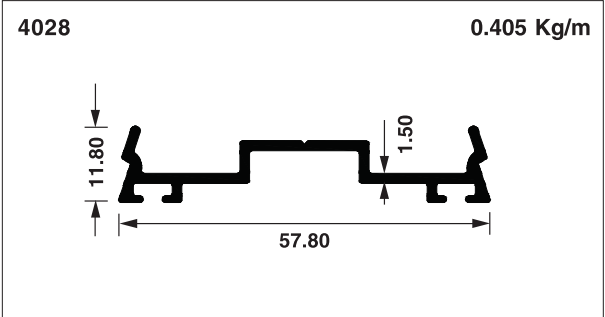
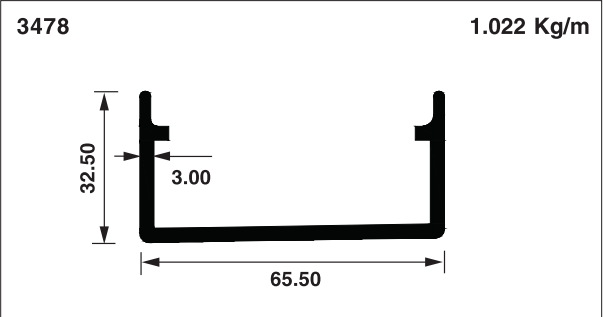
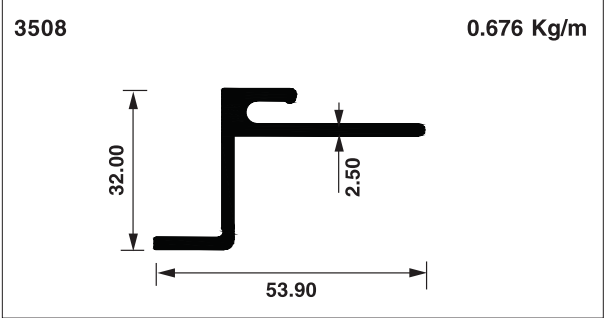
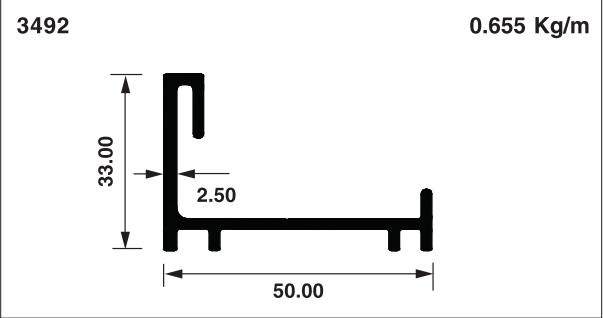
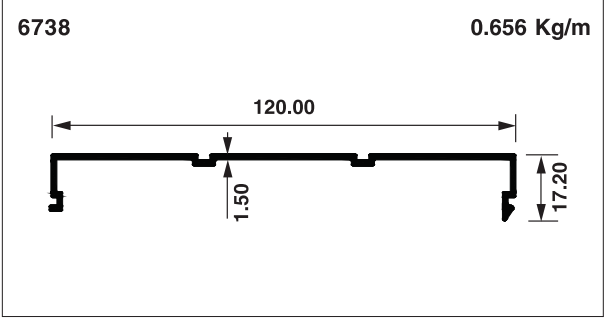
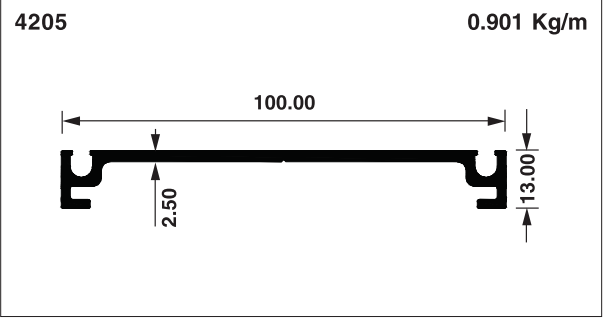
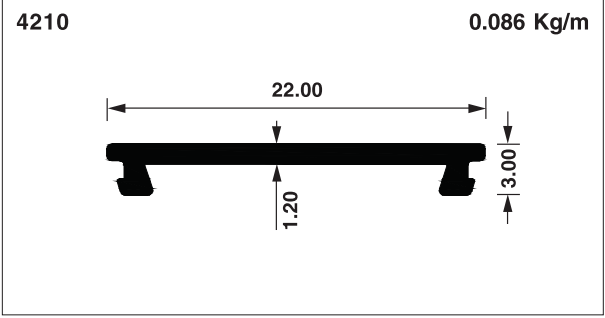
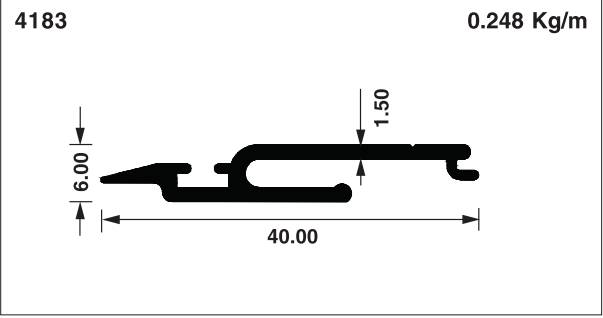
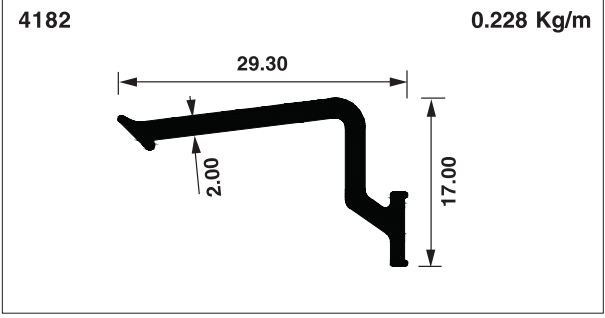
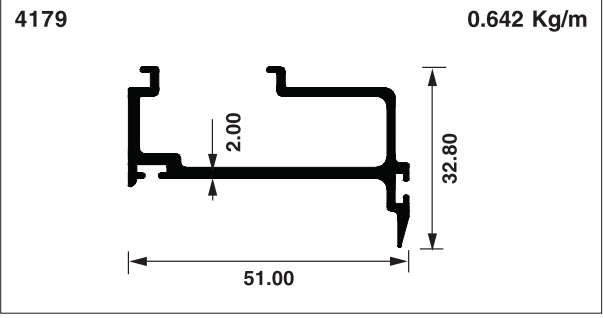






Clips

<p>4052 0.173 Kg/m</p> 	<p>4370 0.191 Kg/m</p> 
<p>4661 0.265 Kg/m</p> 	<p>4026 0.316 Kg/m</p> 
<p>3480 1.085 Kg/m</p> 	<p>3479 0.665 Kg/m</p> 
<p>4110 1.111 Kg/m</p> 	<p>3489 1.847 Kg/m</p> 
<p>3490 1.414 Kg/m</p> 	<p>3491 1.562 Kg/m</p> 

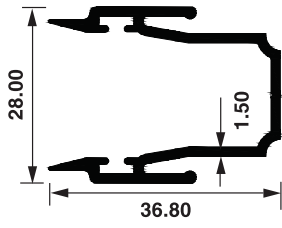




Clips

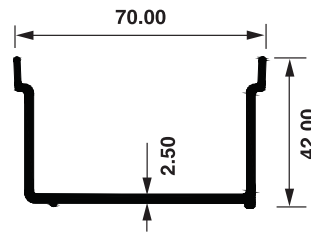
4185

0.477 Kg/m



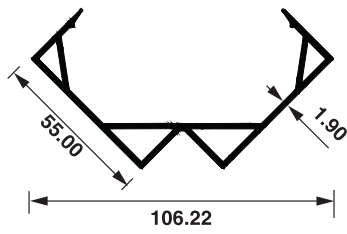
4186

0.952 Kg/m



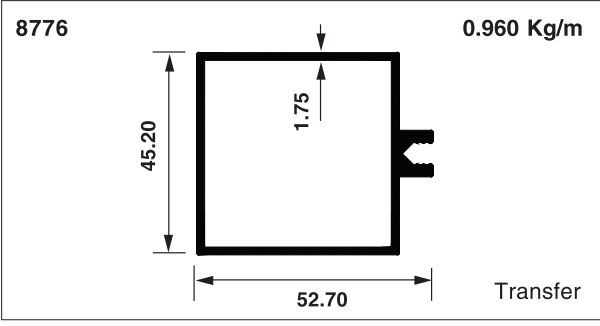
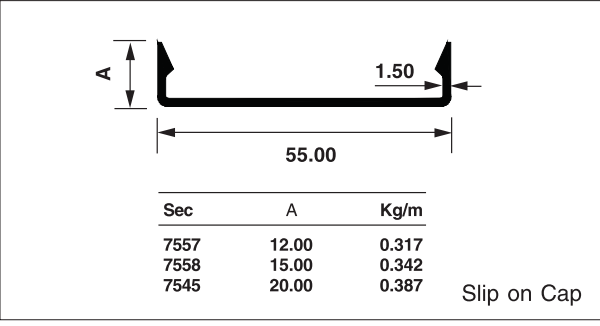
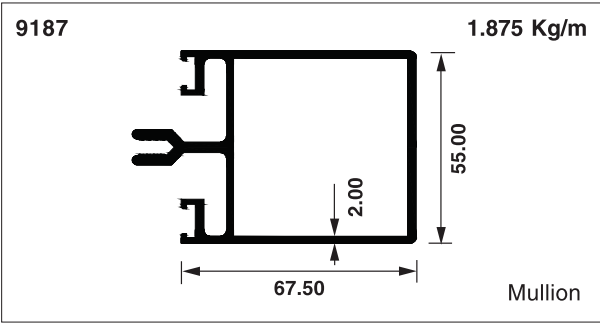
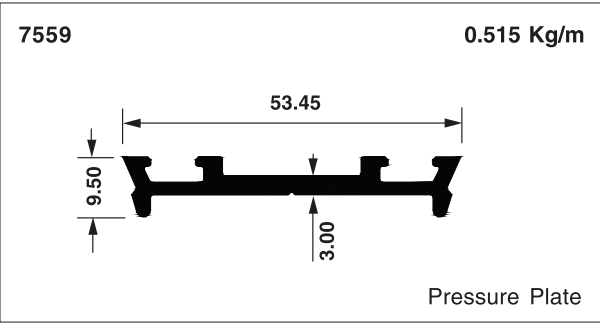
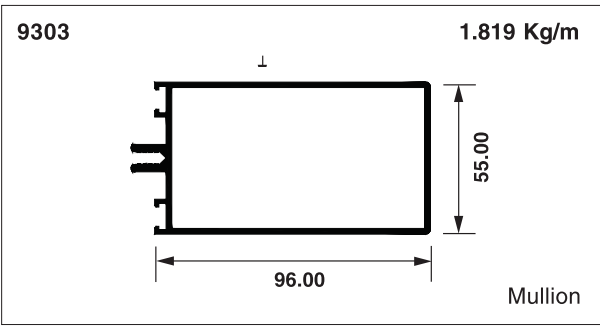
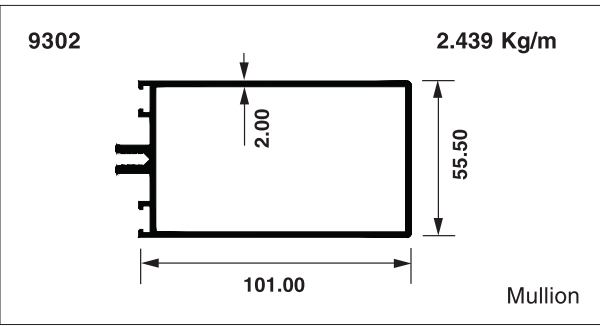
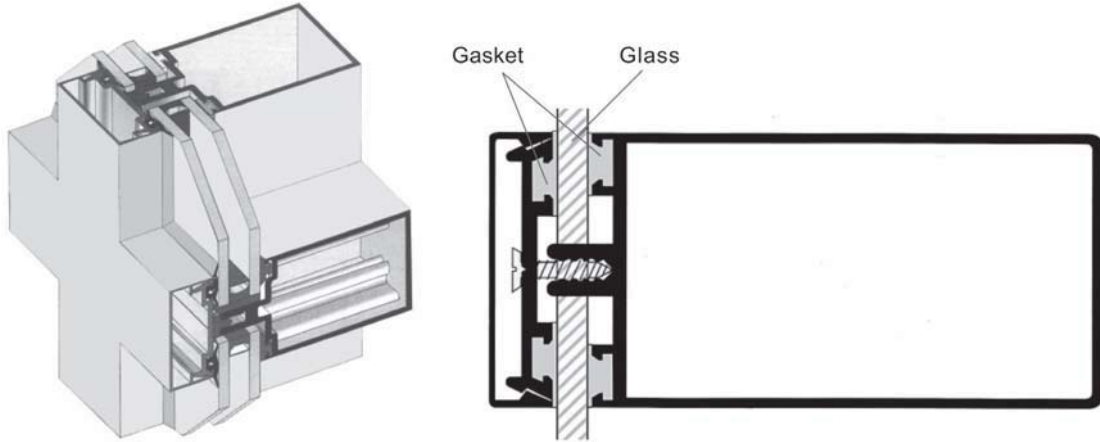
85057

1.421 Kg/m



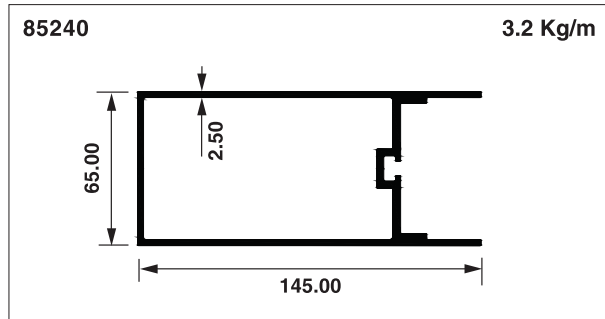
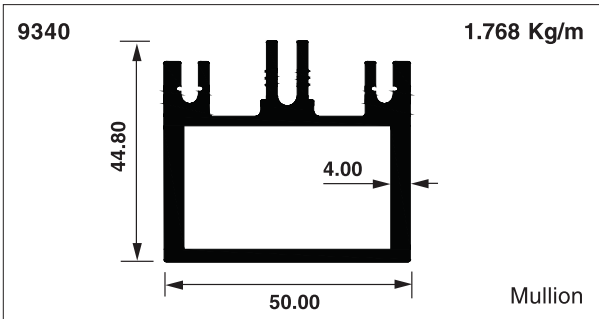
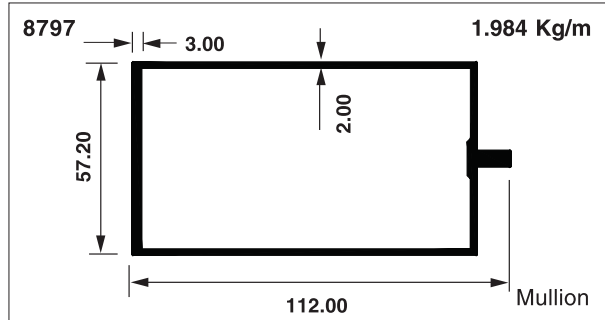
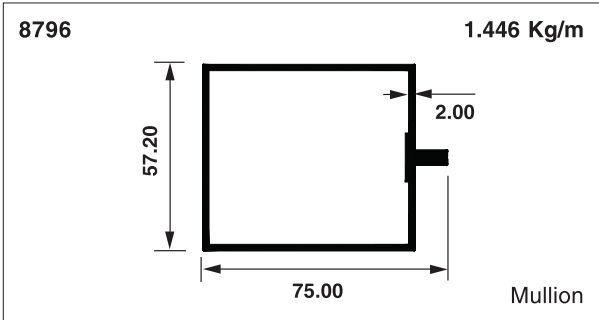
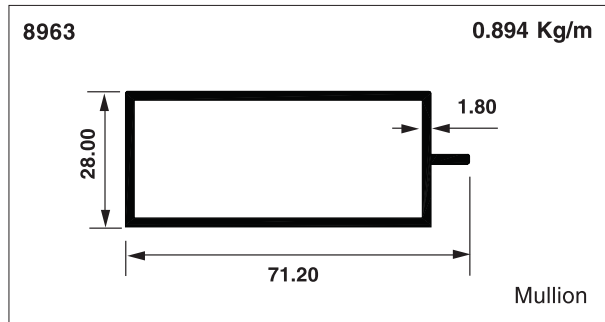
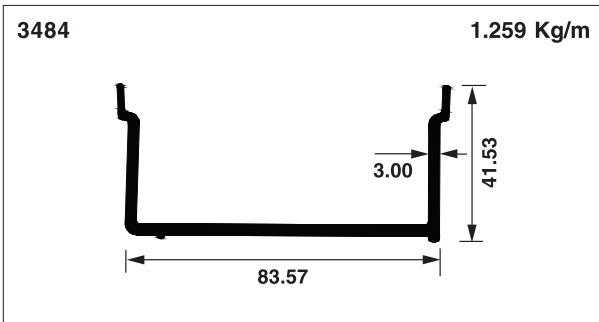
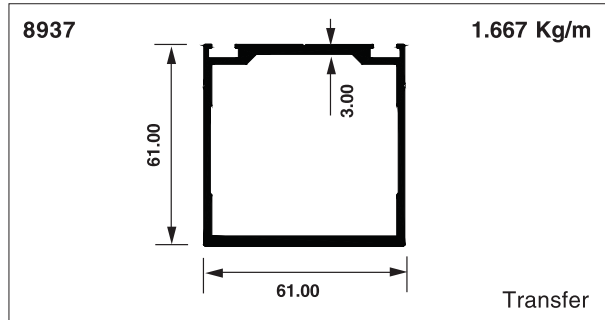
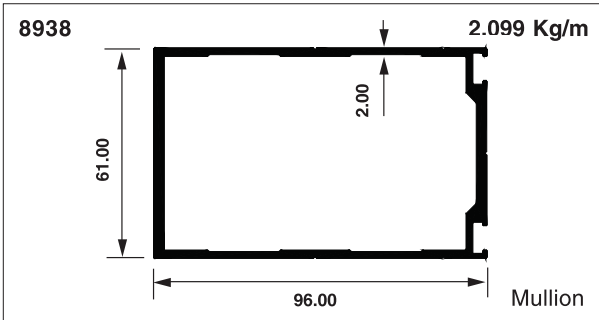
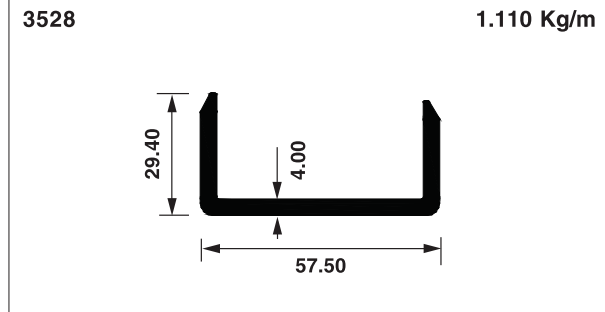
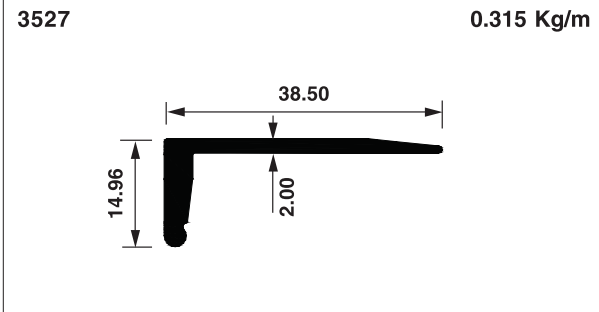


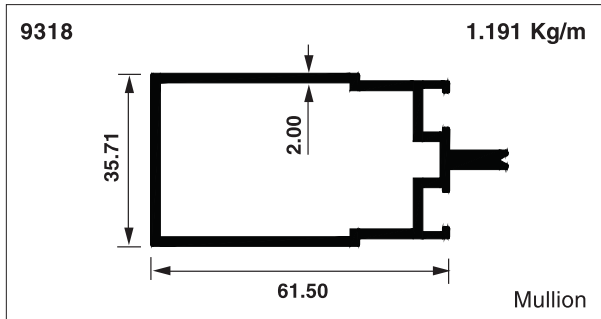
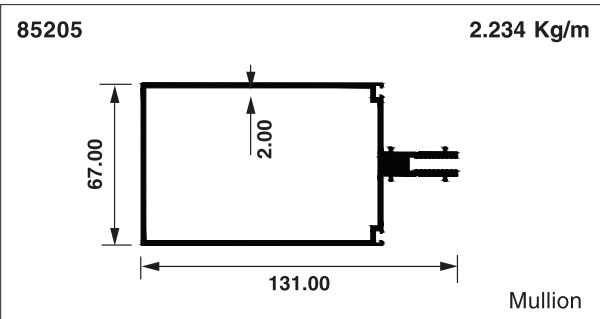
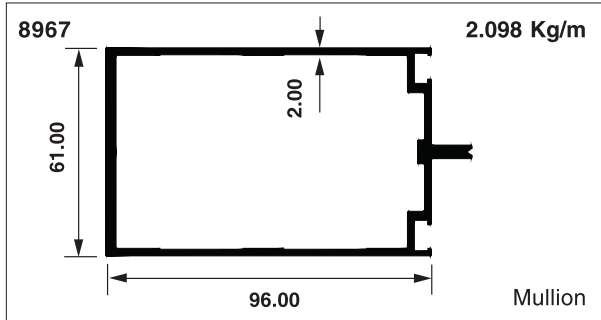
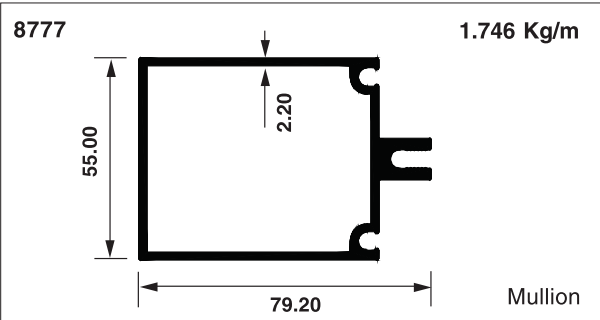
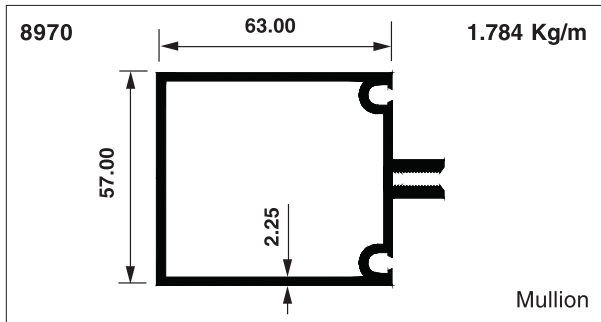
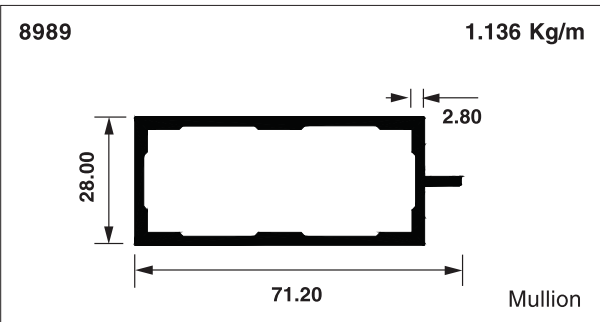
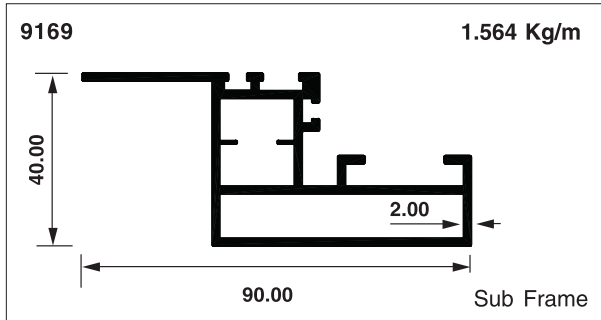
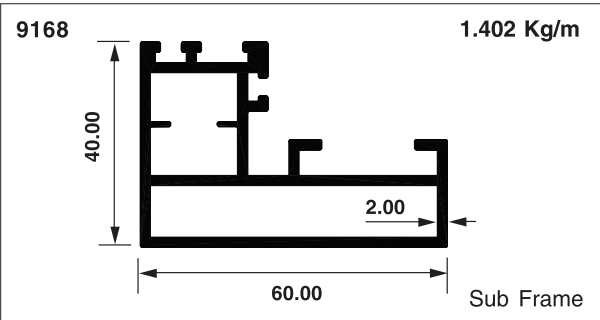
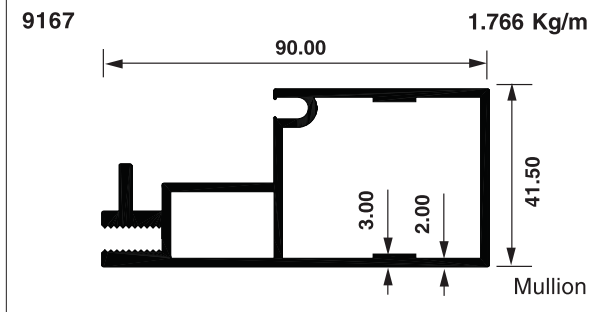
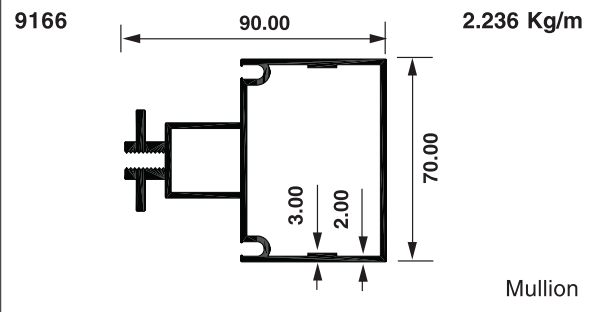
Curtain Walls Assembly





Curtain Walls

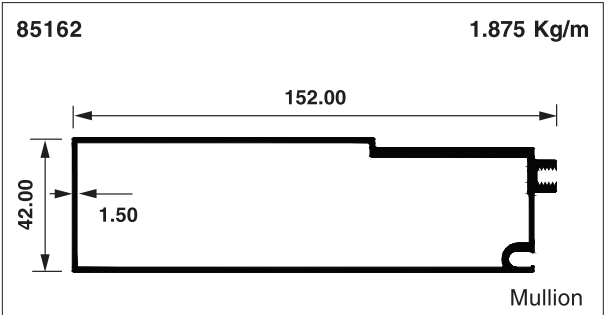
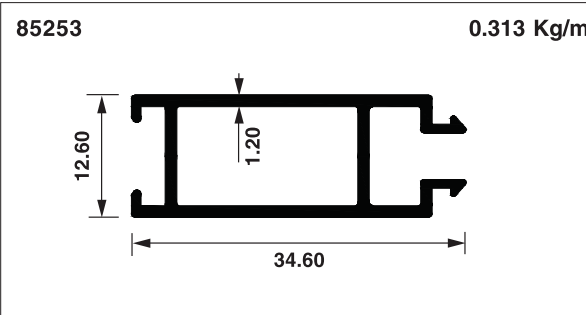
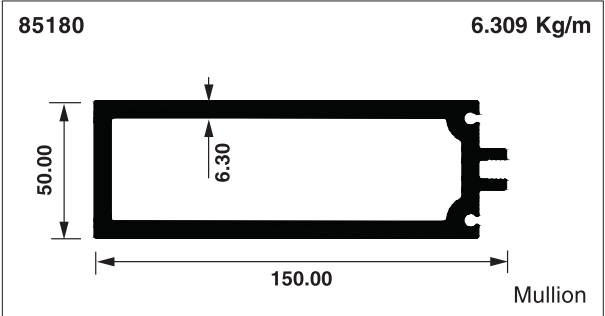
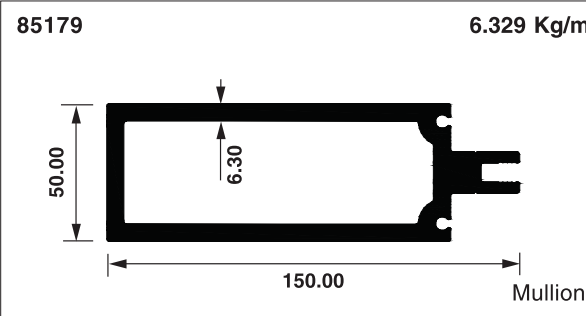
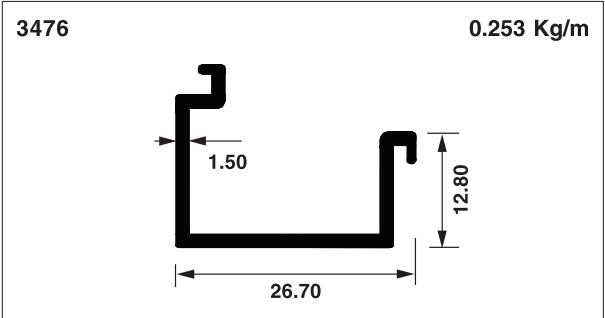
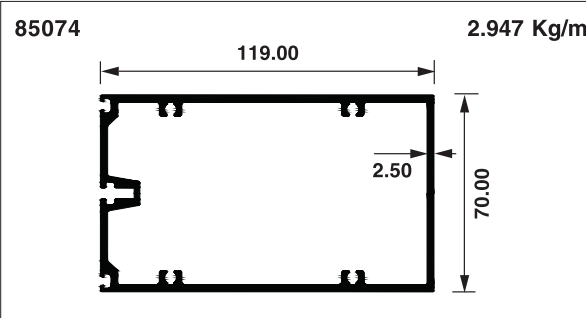
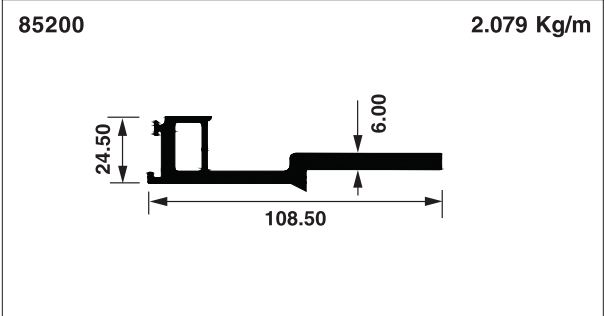
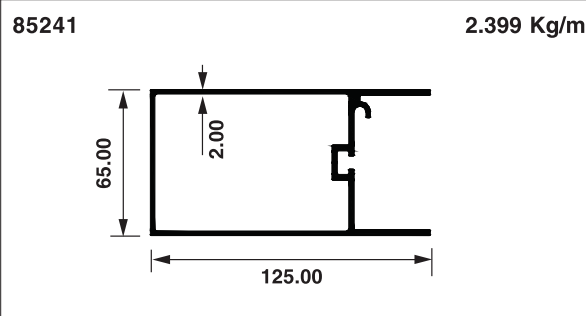
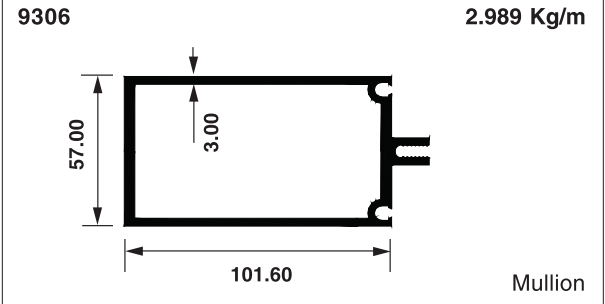
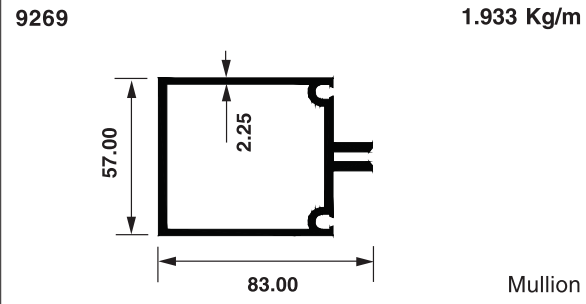






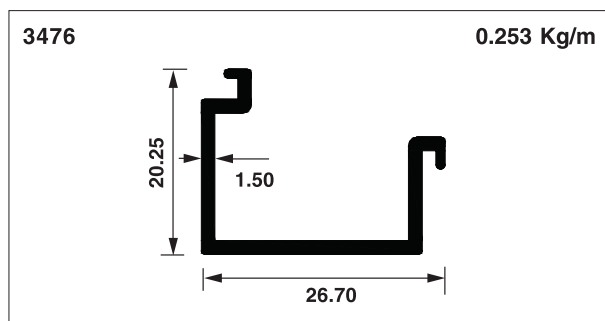
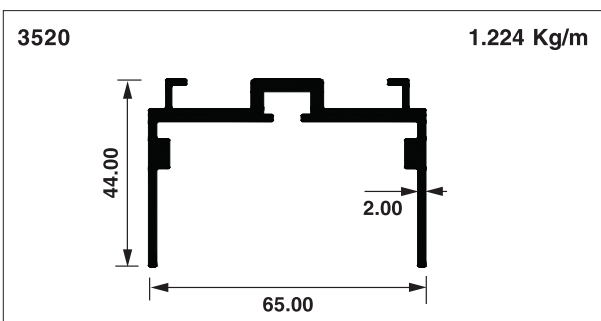
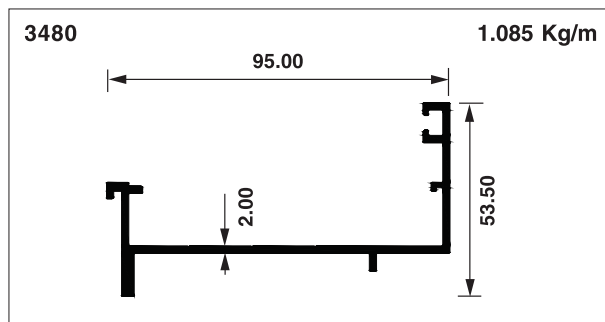
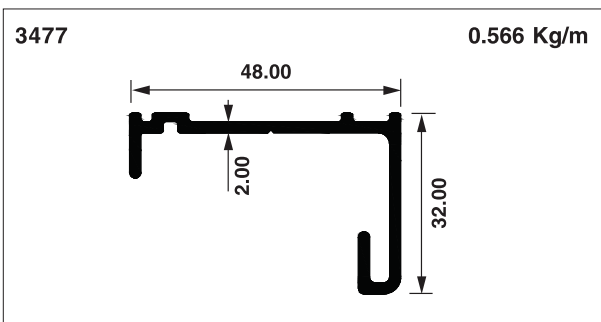
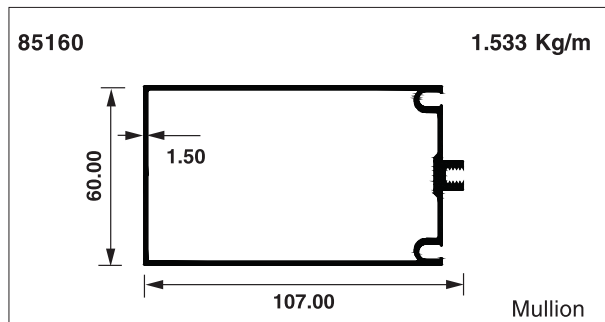
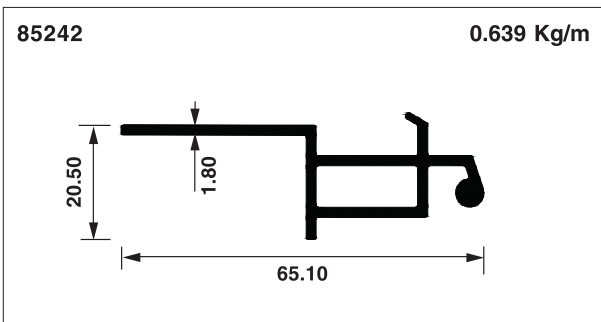
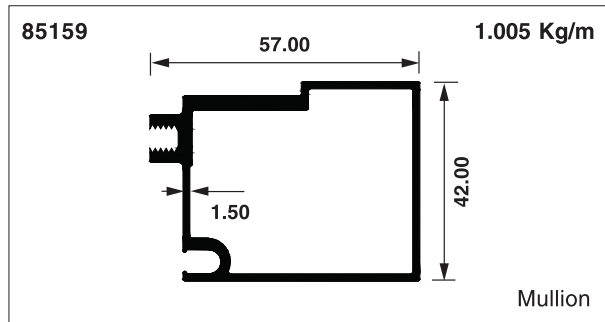
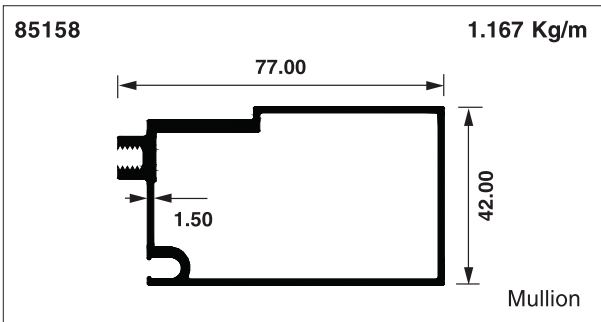
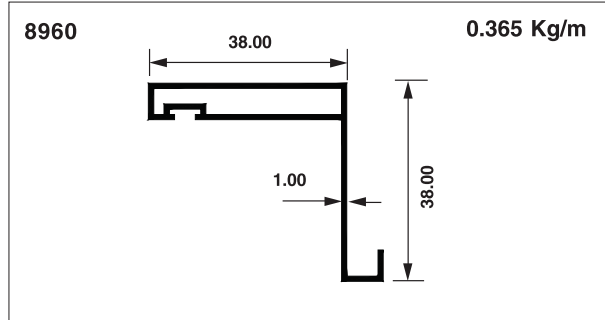
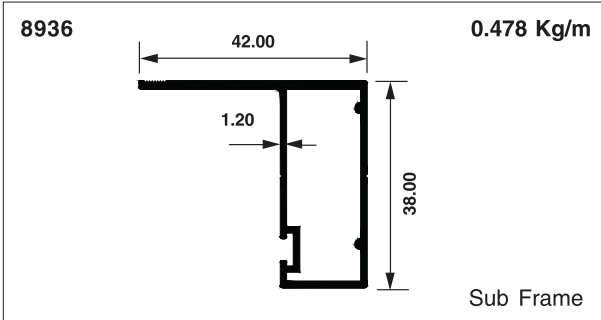
Curtain Walls

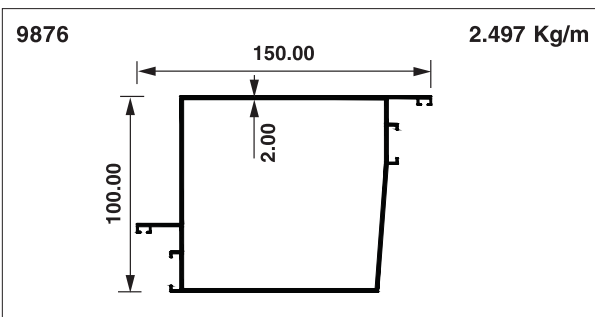
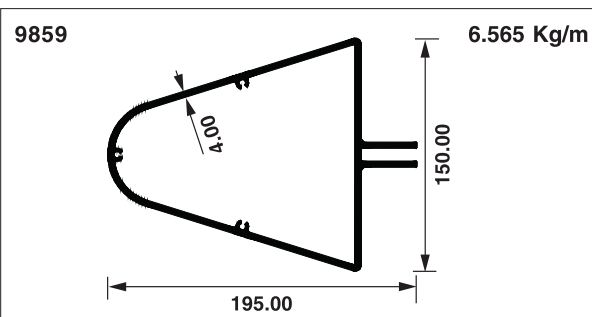
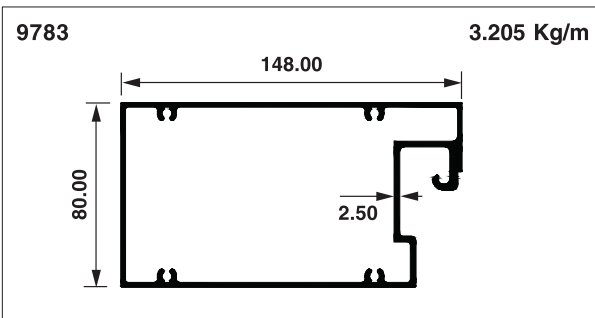
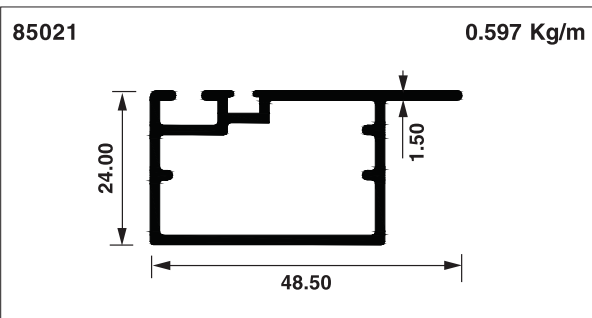
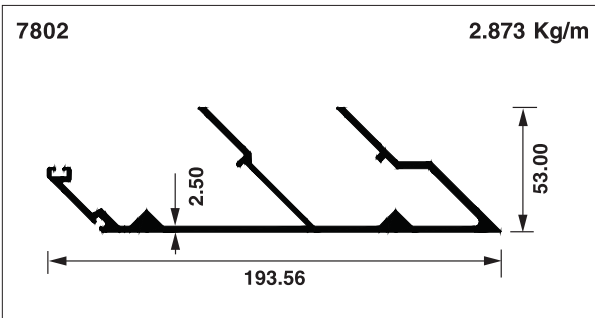
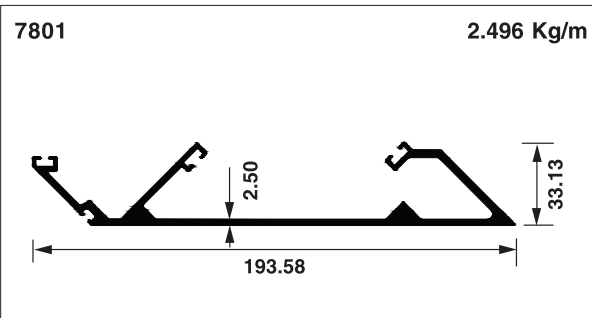
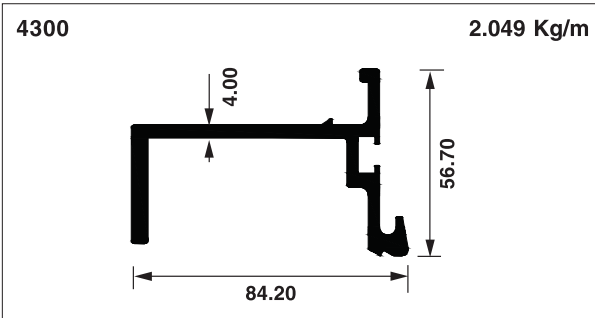
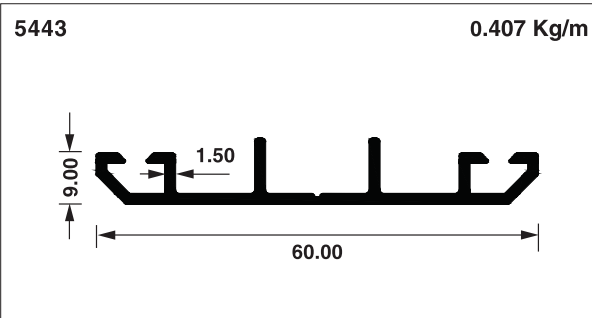
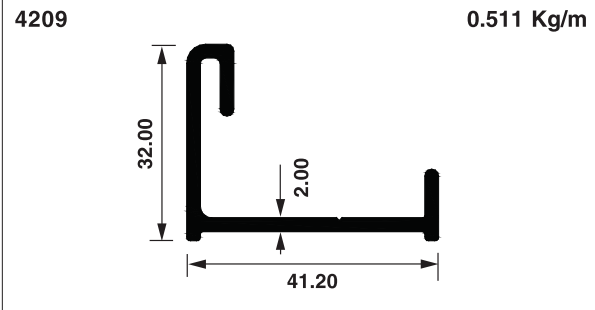
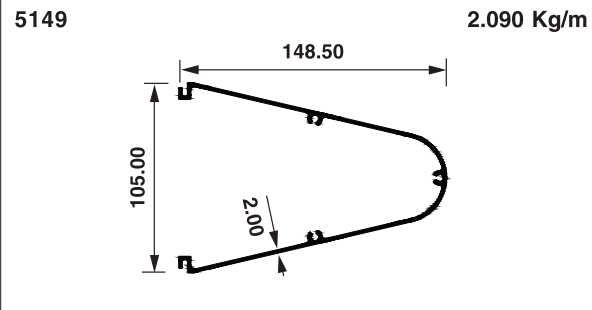
<p>85207 0.811 Kg/m</p> <p style="text-align: right;">Sub Frame</p>	<p>85222 0.824 Kg/m</p> <p style="text-align: right;">Mullion</p>
<p>85154 1.389 Kg/m</p> <p style="text-align: right;">Mullion</p>	<p>85155 1.273 Kg/m</p> <p style="text-align: right;">Mullion</p>
<p>85156 2.294 Kg/m</p> <p style="text-align: right;">Mullion</p>	<p>85157 1.714 Kg/m</p> <p style="text-align: right;">Mullion</p>
<p>8718 2.163 Kg/m</p> <p style="text-align: right;">Mullion</p>	<p>8791 1.793 Kg/m</p> <p style="text-align: right;">Mullion</p>
<p>8768 1.366 Kg/m</p> <p style="text-align: right;">Mullion</p>	<p>9325 1.481 Kg/m</p> <p style="text-align: right;">Transfer</p>





Curtain Walls



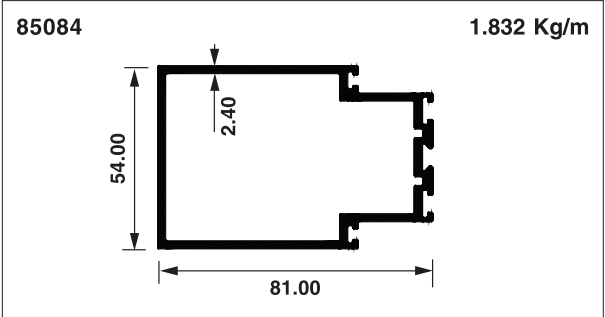
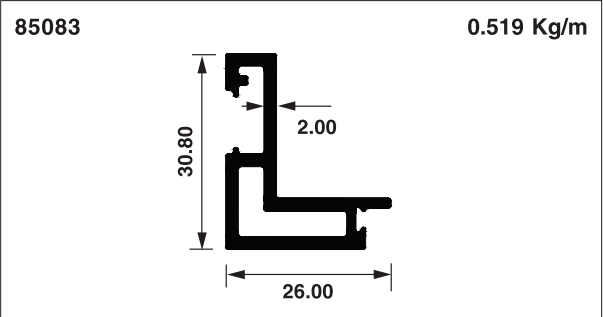
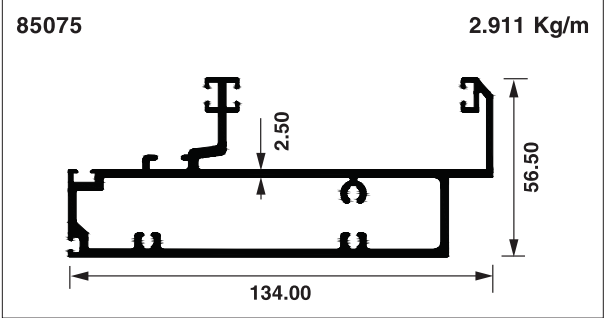
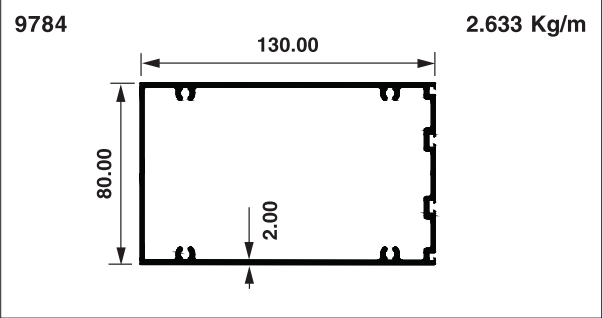
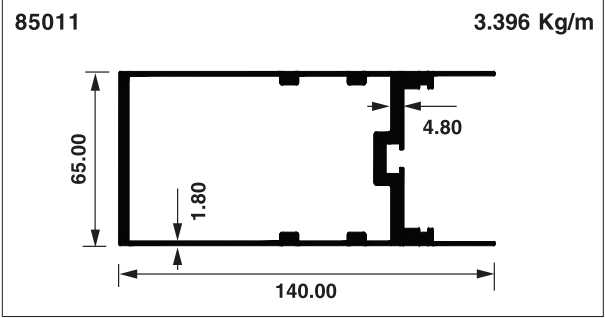
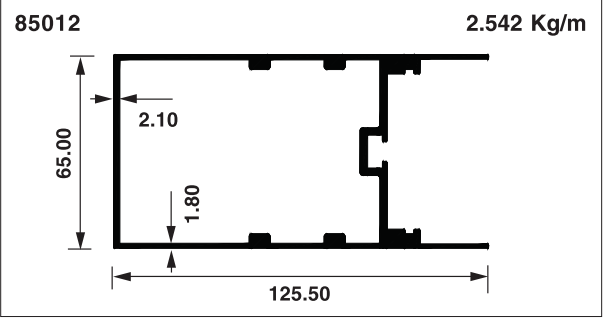
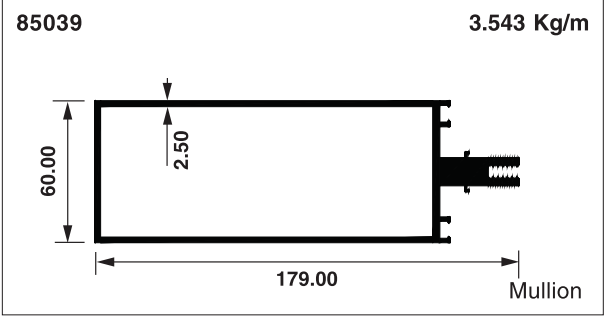
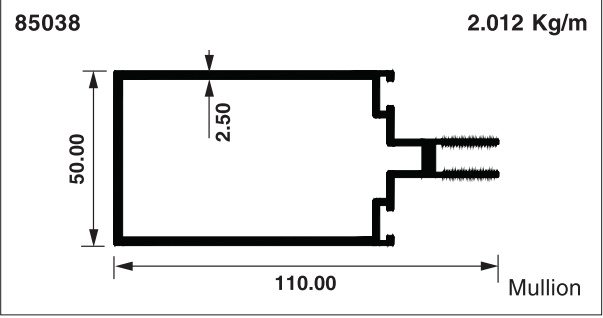
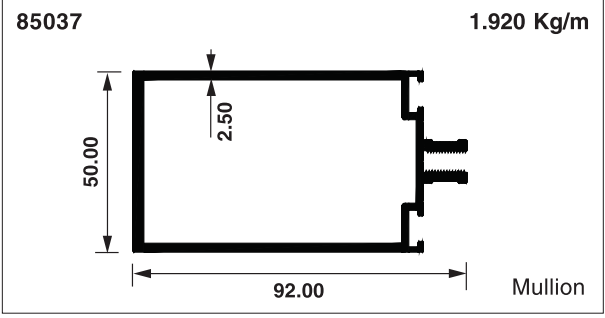
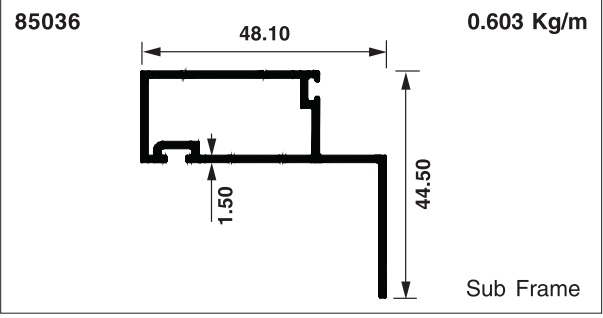




Curtain Walls

<p>85022 0.502 Kg/m</p> <p>24.00 48.50 1.50 Sub Frame</p>	<p>85023 1.117 Kg/m</p> <p>42.00 57.00 1.50 Mullion</p>
<p>85206 1.901 Kg/m</p> <p>38.50 131.00 2.00 Mullion</p>	<p>85025 1.138 Kg/m</p> <p>56.48 83.00 1.50 Mullion</p>
<p>85026 1.447 Kg/m</p> <p>60.00 57.00 2.00 Mullion</p>	<p>85027 1.860 Kg/m</p> <p>60.00 77.00 2.50 Mullion</p>
<p>85028 1.931 Kg/m</p> <p>42.00 132.00 2.00 Mullion</p>	<p>85029 2.636 Kg/m</p> <p>60.00 132.00 2.50 Mullion</p>
<p>85161 2.867 Kg/m</p> <p>60.00 152.00 2.50 Mullion</p>	<p>85247 2.735 Kg/m</p> <p>75.52 143.50 2.00 Mullion</p>

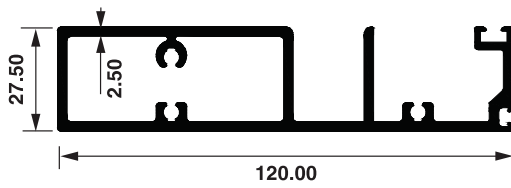
Curtain Walls



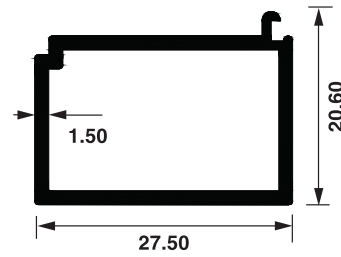


Curtain Walls

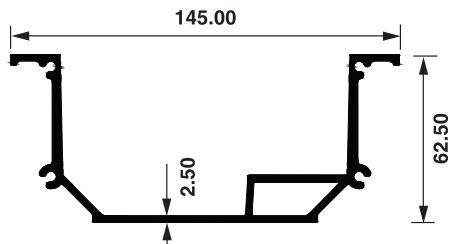
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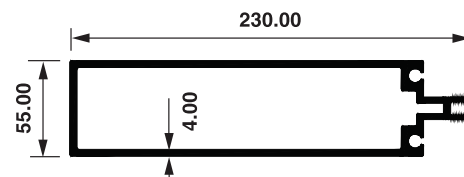
85110 0.350 Kg/m



85125 2.421 Kg/m

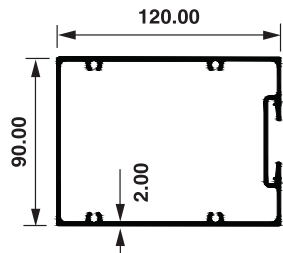


9798 6.204 Kg/m

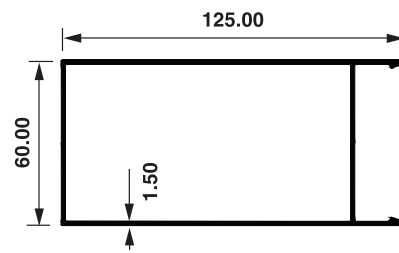


Mullion

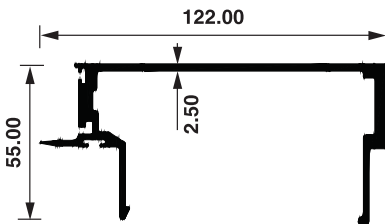
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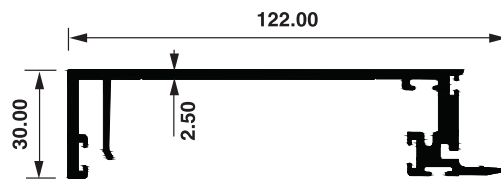
85152 1.496 Kg/m



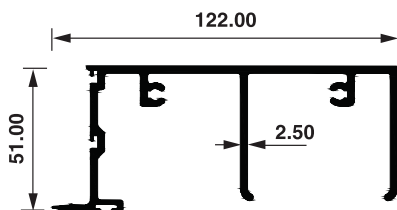
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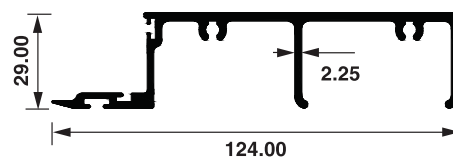
3469 1.665 Kg/m



3470 2.150 Kg/m

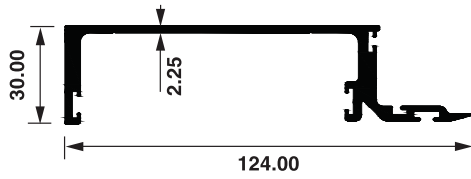


3471 1.496 Kg/m

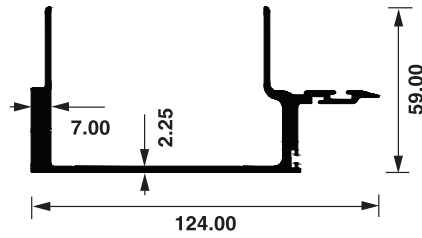




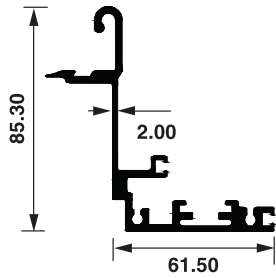
3472 1.493 Kg/m



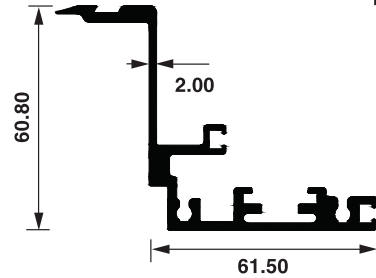
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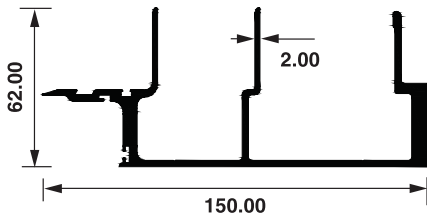
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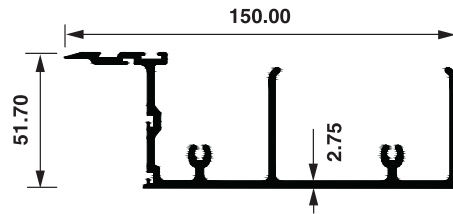
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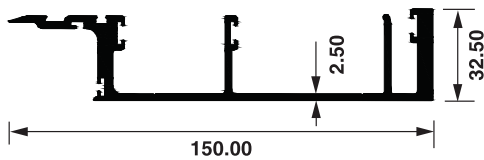
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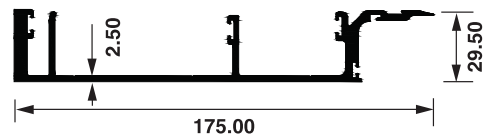
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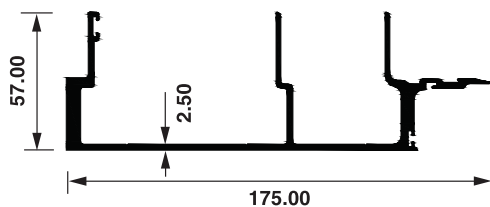
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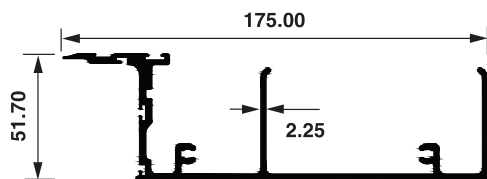
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3487 2.796 Kg/m



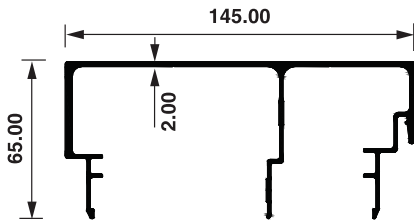
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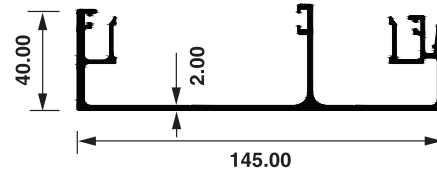


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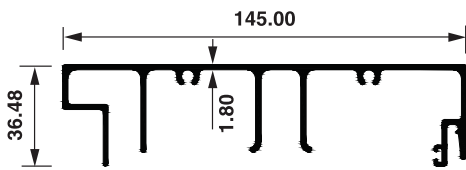
3524 2.093 Kg/m



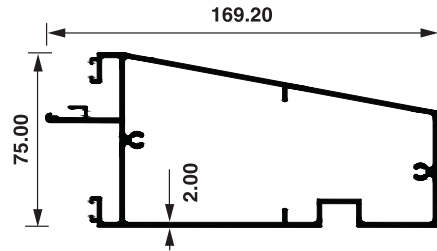
3525 2.004 Kg/m



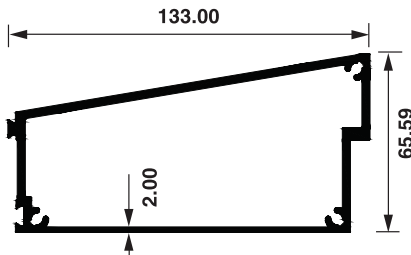
3526 1.901 Kg/m



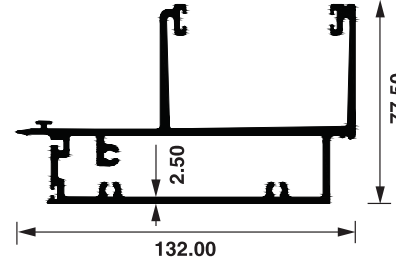
85034 2.991 Kg/m



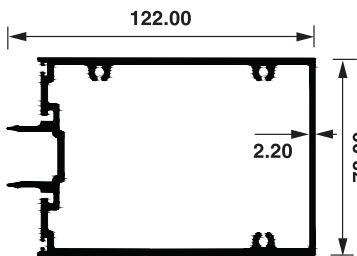
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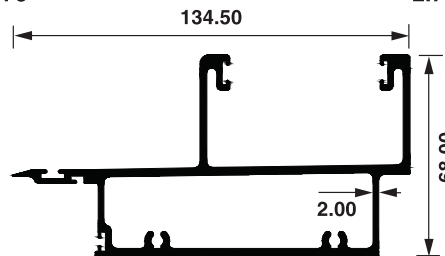
85164 3.385 Kg/m



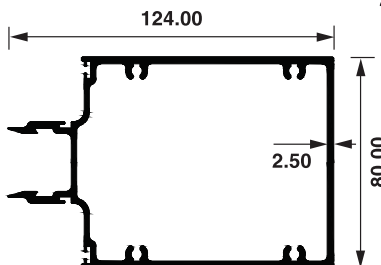
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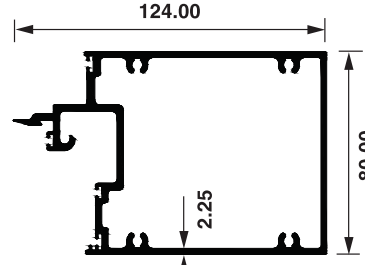
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85176 2.905 Kg/m

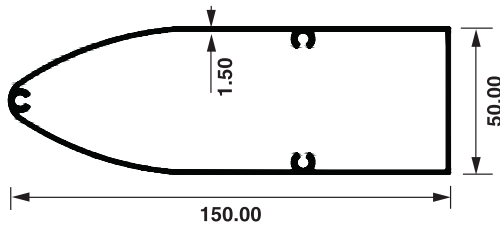


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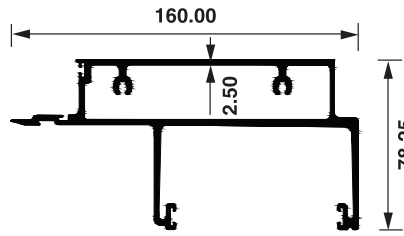




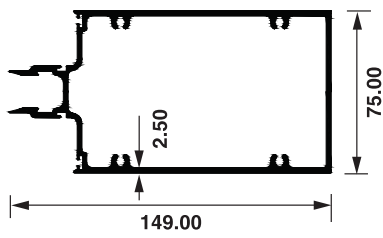
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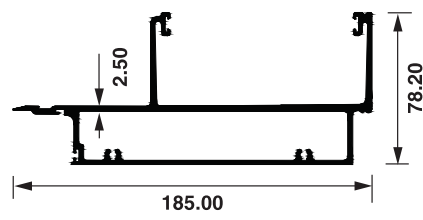
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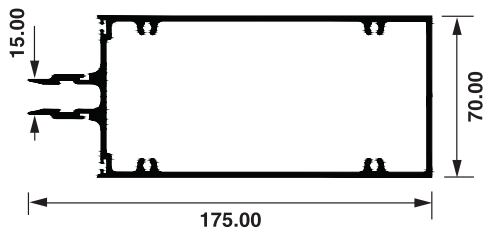
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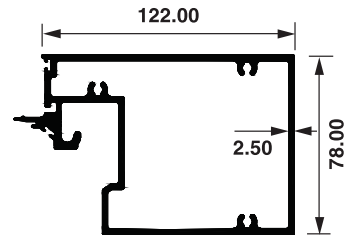
85195 3.752 Kg/m



85196 3.374 Kg/m

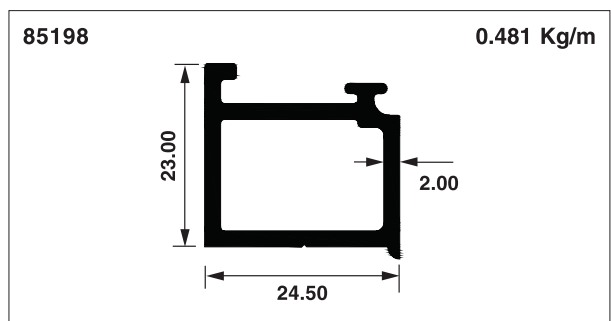
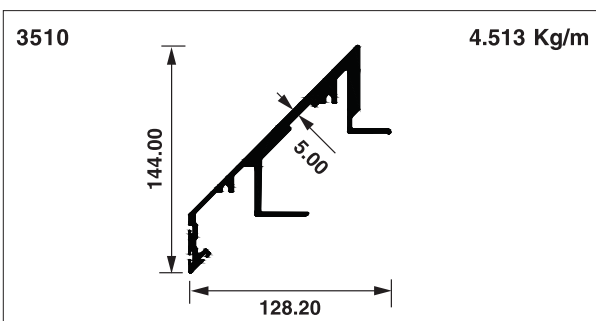
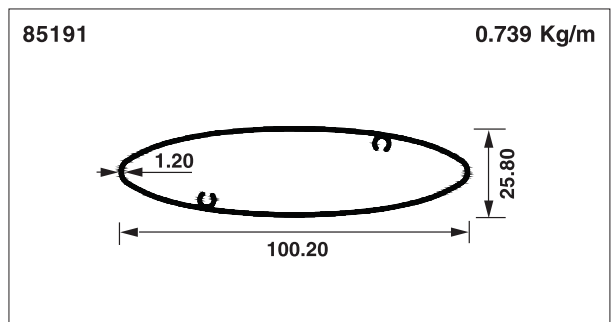
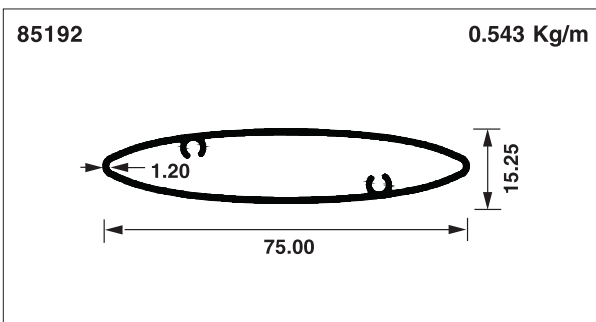
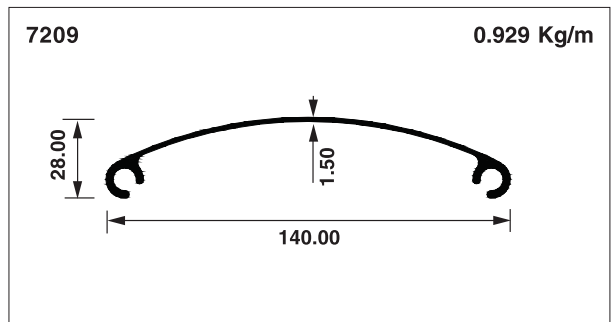
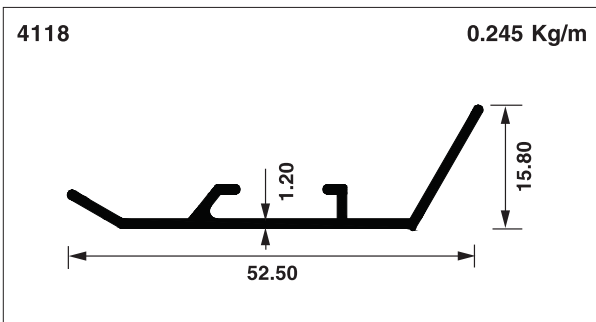
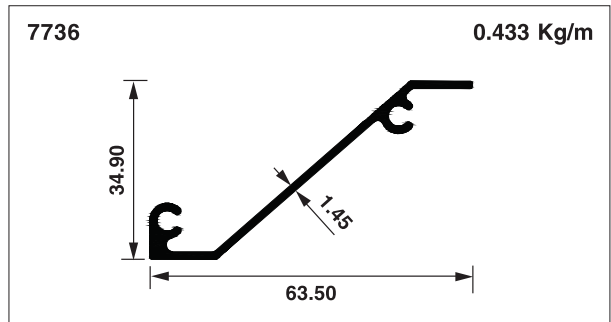
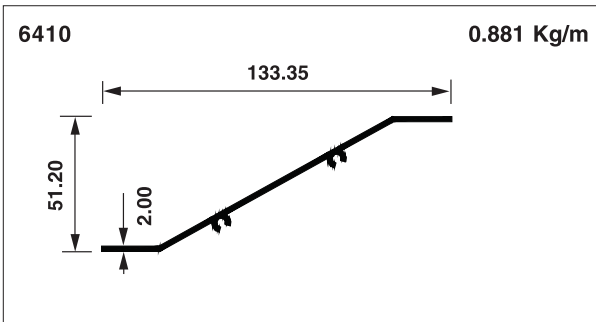
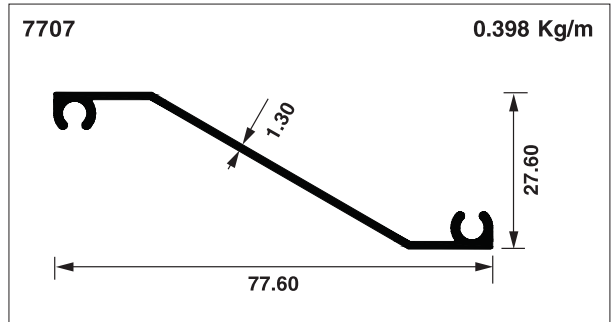
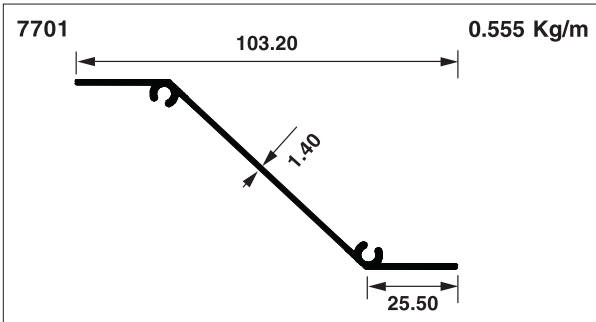


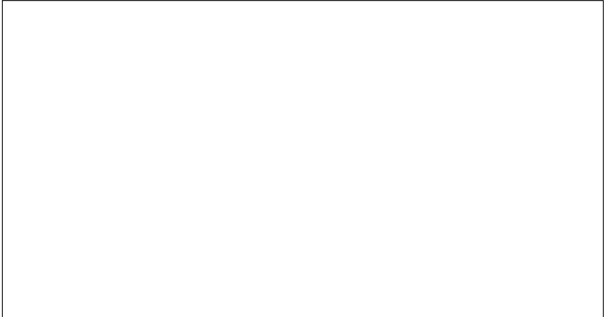
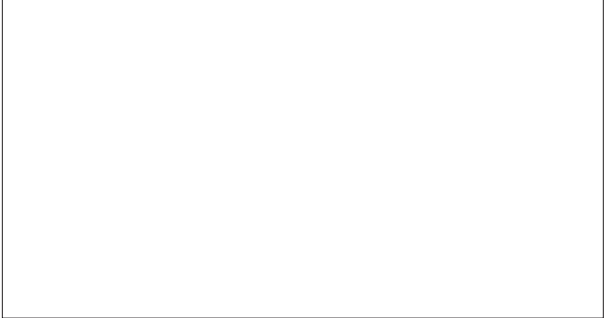
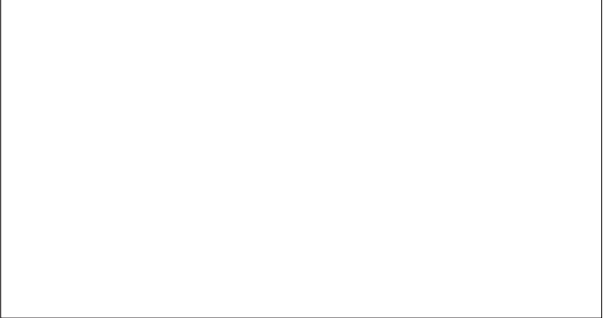
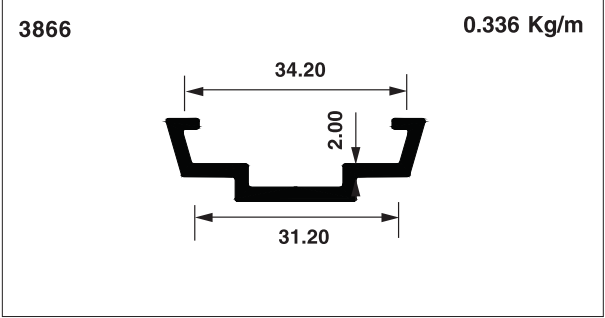
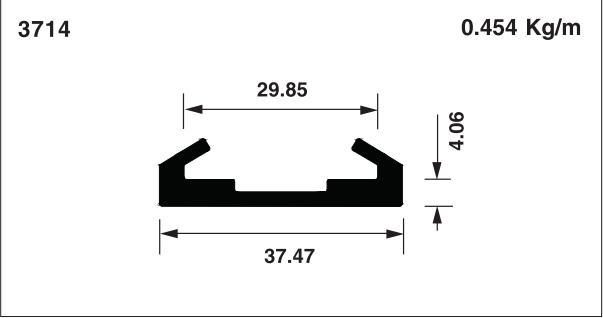
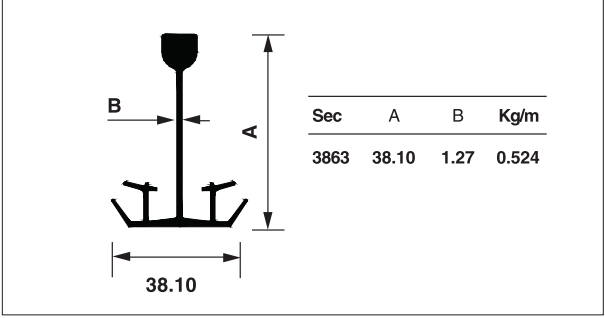
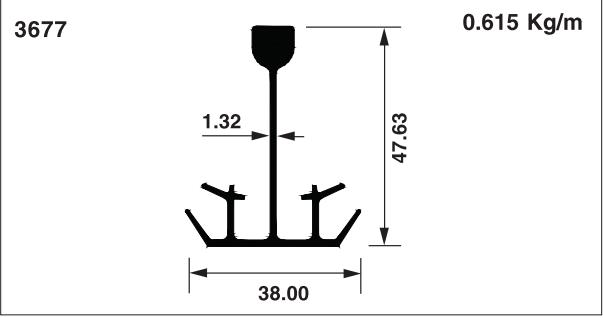
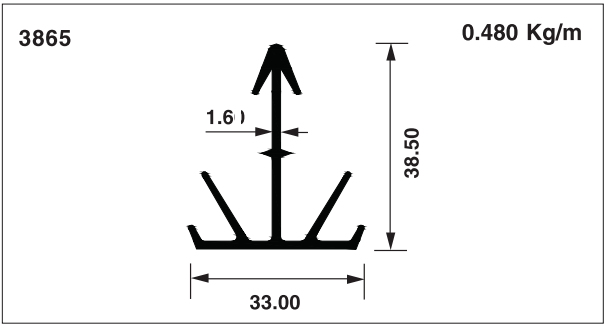
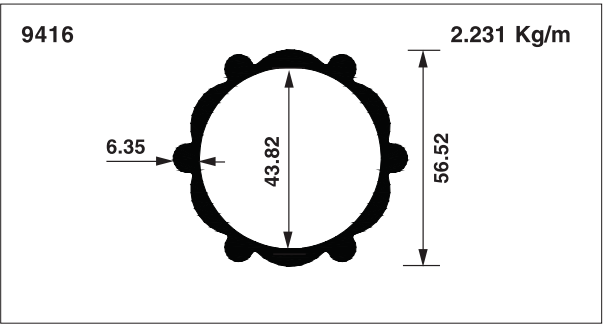
85199 3.208 Kg/m





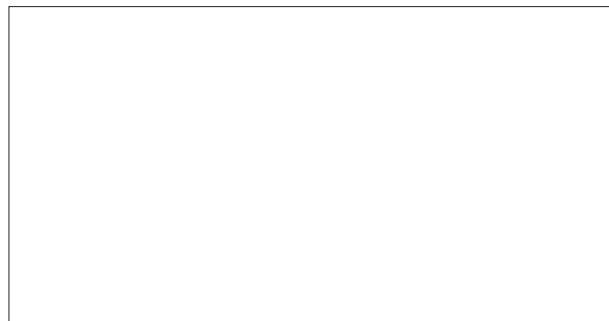
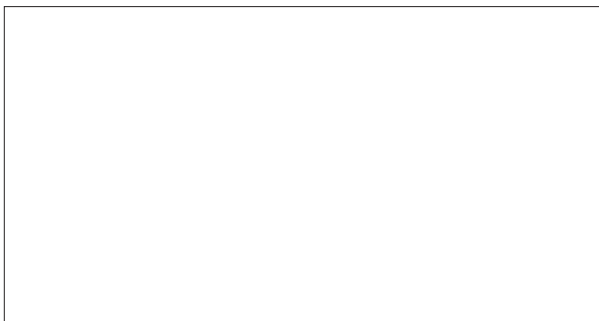
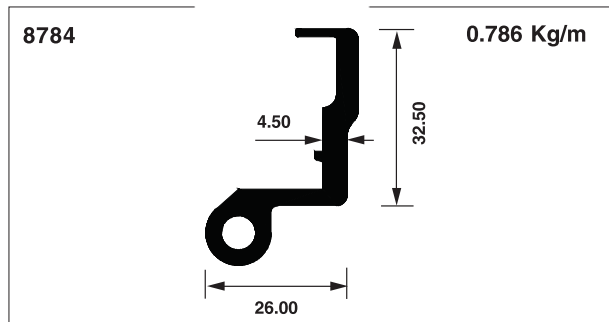
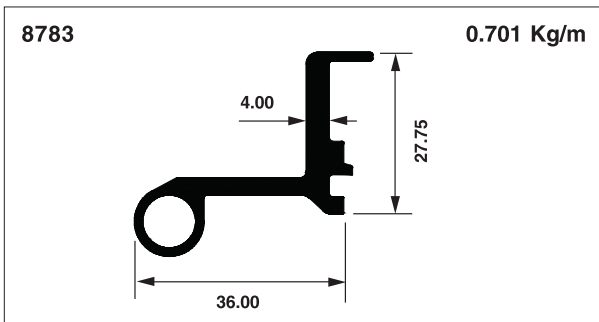
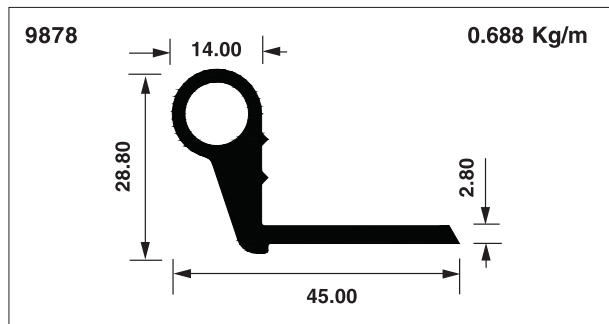
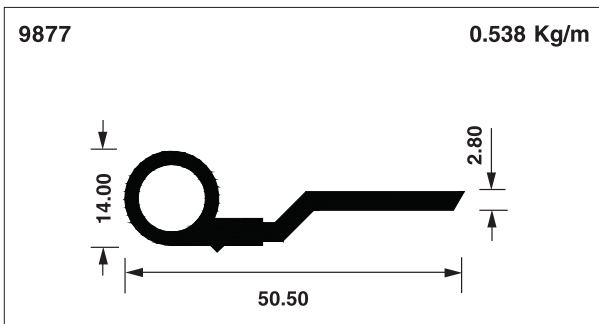
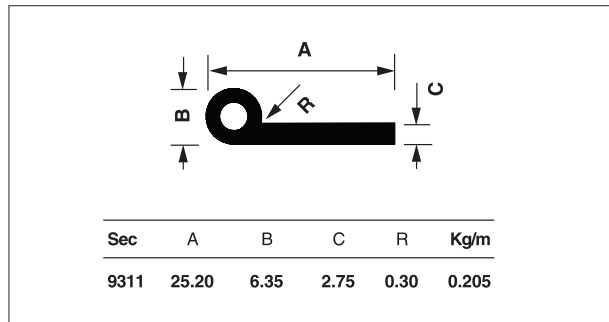
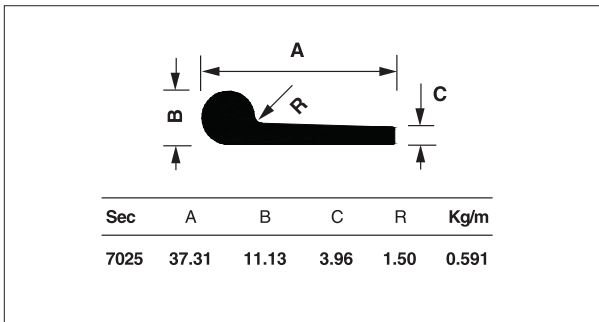
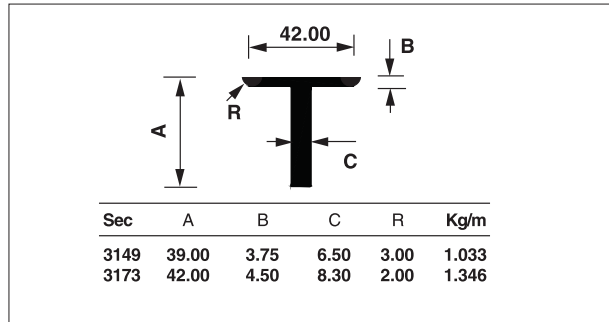
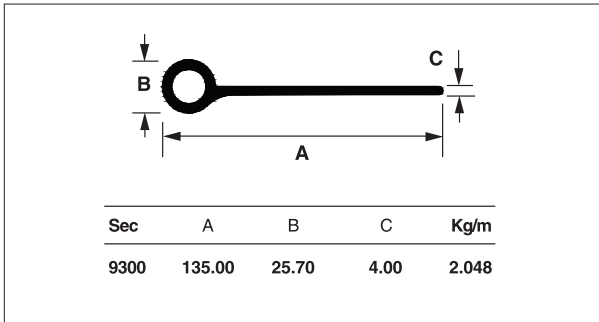
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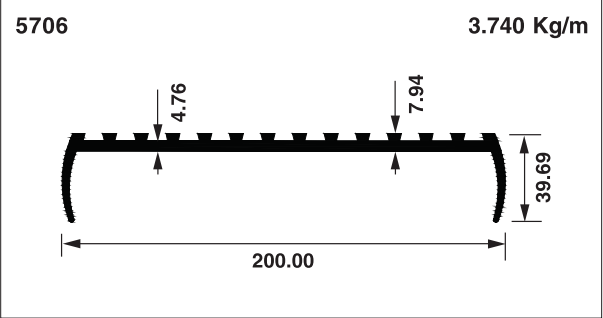
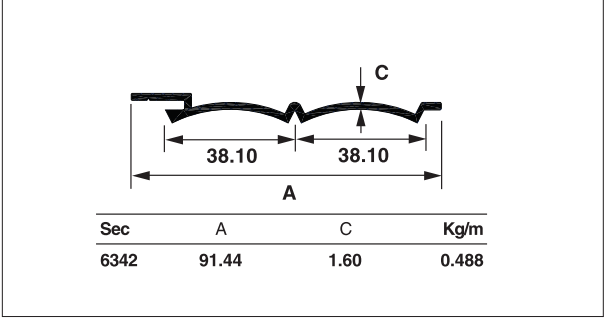
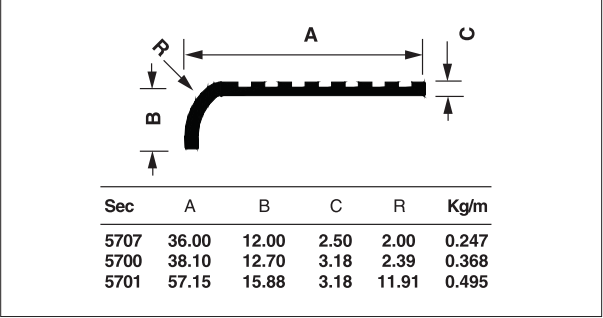
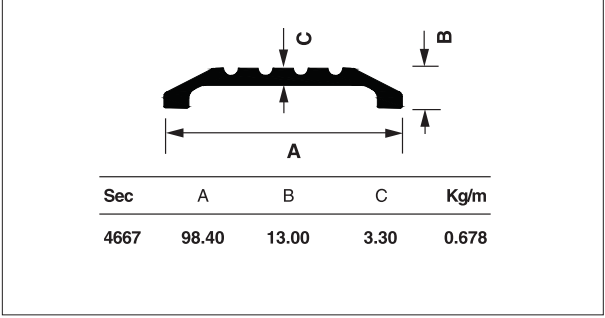
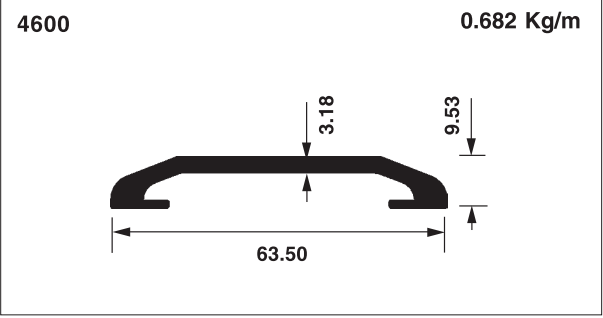
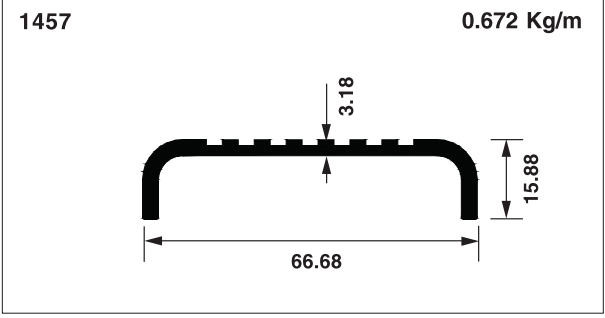
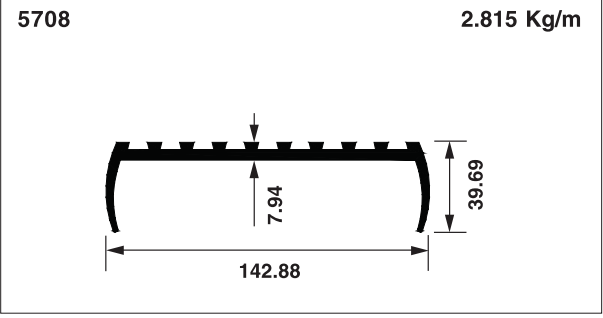




Aldrop & Hinges

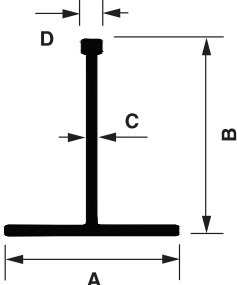


Wall Facing & Step Edging

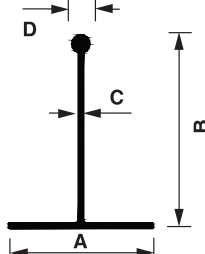




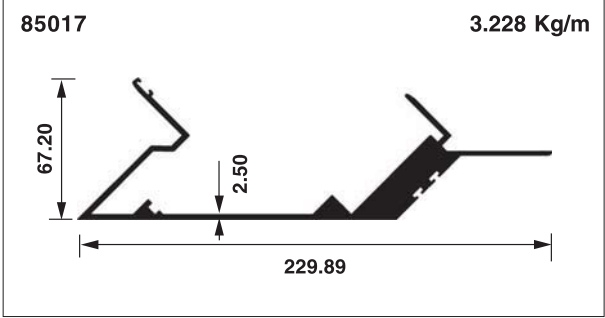
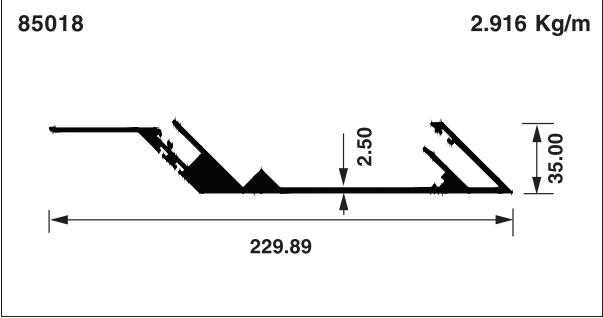
False Ceiling



Sec	A	B	C	D	Kg/m	Sec	A	B	C	D	Kg/m
3190	23.50	26.40	1.45	2.80	0.196	3218	25.40	25.40	1.50	3.80	0.223
3247	23.50	20.00	1.10	2.50	0.137	3142	25.40	34.90	3.00	5.00	0.478
3210	23.50	35.00	1.50	3.00	0.250	3216	25.40	36.50	1.60	3.80	0.283
3209	23.50	24.00	1.50	3.00	0.205	3139	26.00	40.00	2.00	6.00	0.390
3122	23.50	23.80	1.57	3.18	0.215	3134	32.00	32.00	1.20	2.20	0.211
3121	23.50	36.50	1.57	3.18	0.268	3133	32.00	32.00	1.40	2.20	0.243
3183	25.00	38.00	1.50	4.00	0.276	3138	32.00	32.00	1.50	2.50	0.261
3136	25.00	30.00	1.27	2.50	0.208	3191	38.00	38.00	1.40	3.00	0.303
3245	25.00	25.00	1.00	3.00	0.144	3192	38.00	38.00	1.50	3.00	0.321
3135	25.00	25.00	1.27	2.50	0.176	3193	38.10	38.10	1.60	3.00	0.341
3137	25.00	38.00	1.27	4.00	0.255	3207	38.10	50.80	1.60	5.00	0.409
3185	25.00	25.00	1.40	2.50	0.193	3193	38.10	38.10	1.60	3.00	0.341
3215	25.40	25.40	1.60	3.80	0.235						



Sec	A	B	C	D	Kg/m
3206	22.23	27.00	1.60	3.96	0.221
3166	25.00	26.60	1.60	3.00	0.222
3205	25.40	27.00	1.60	5.20	0.255
3142	25.40	34.90	3.00	5.00	0.476



Grill Frames



Sec	A	B	C	Kg/m
2775	17.75	10.50	0.75	0.095
2136	22.00	11.50	0.90	0.131
2101	22.00	11.50	1.10	0.158

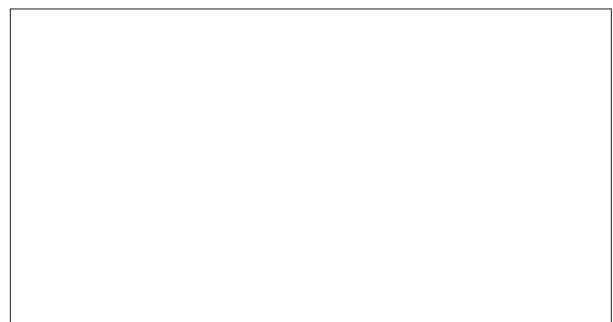
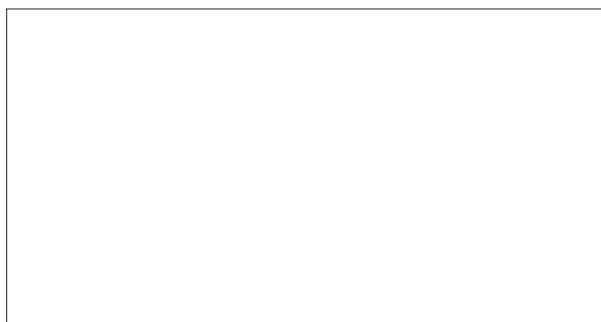
9948 **0.247 Kg/m**

9949 **0.291 Kg/m**

4723 **0.192 Kg/m**

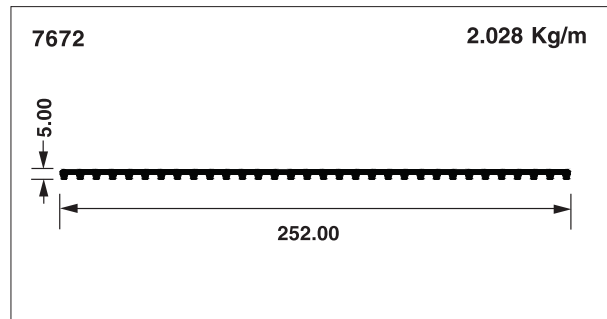
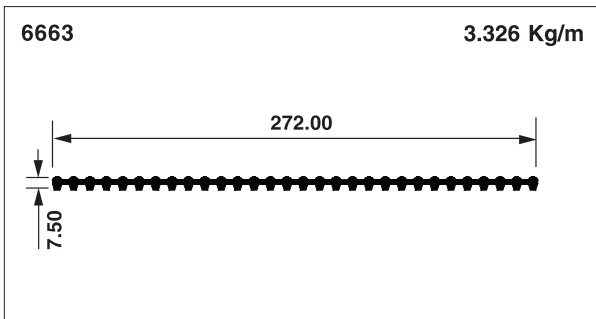
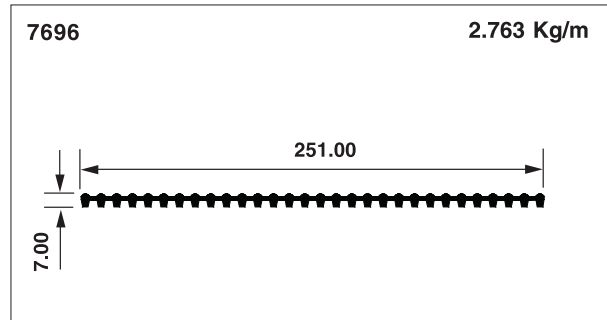
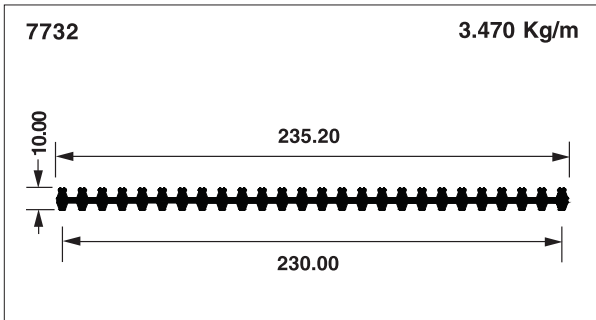
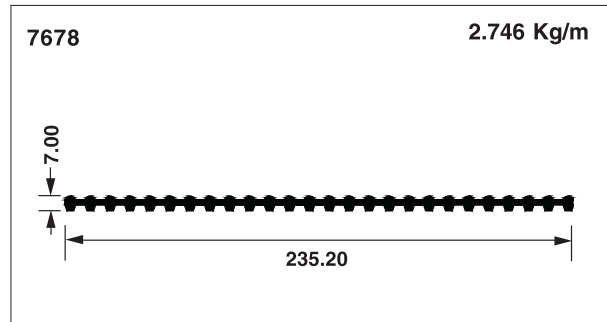
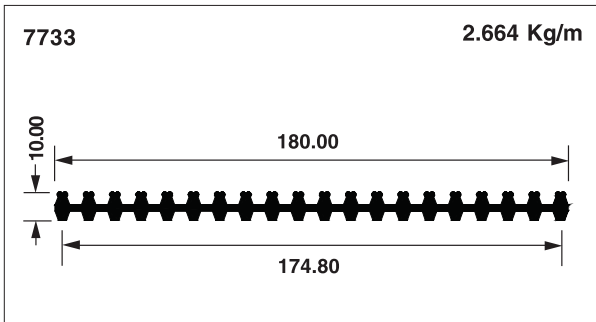
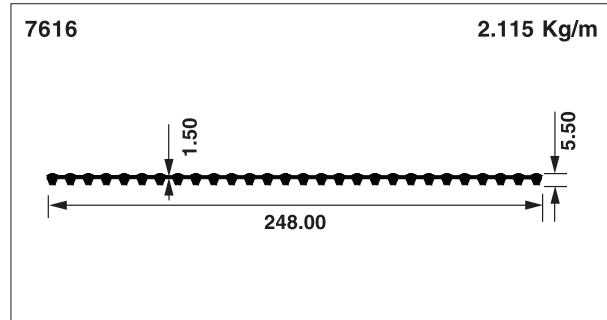
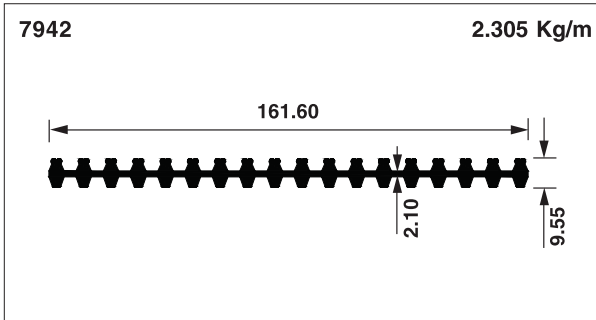
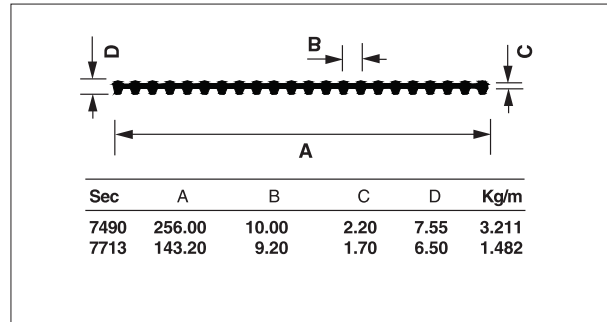
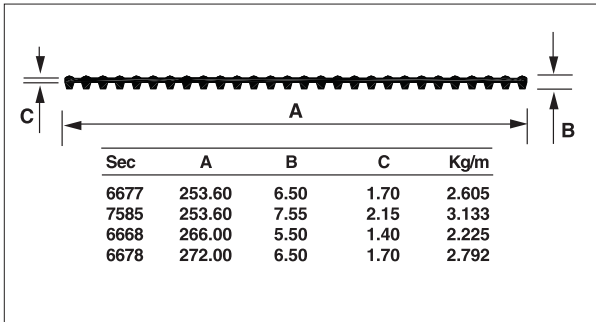
4725 **0.157 Kg/m**

8799 **0.203 Kg/m**

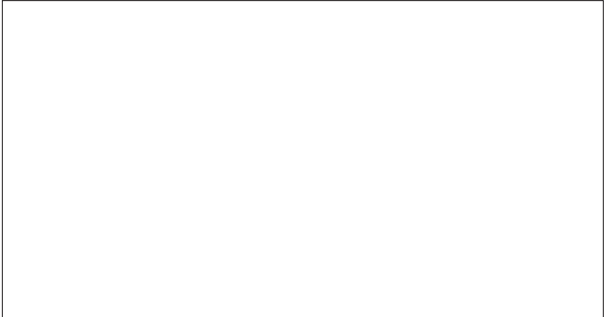
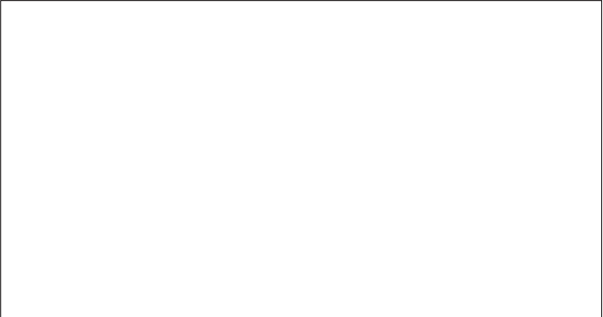
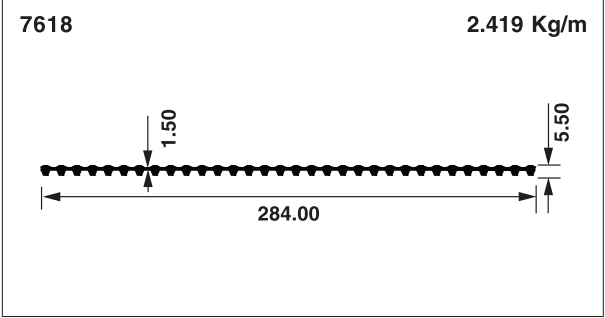
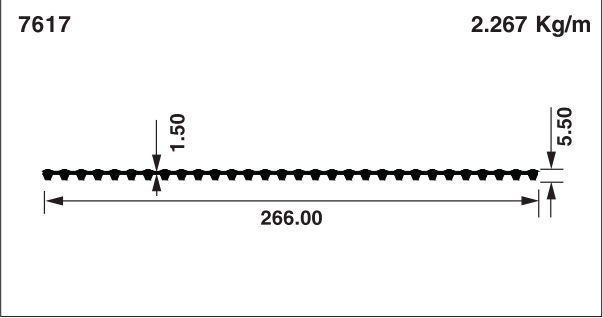
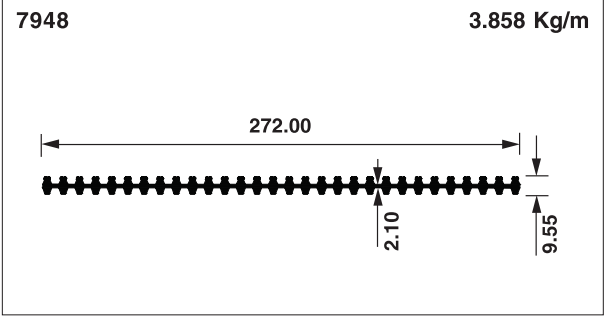
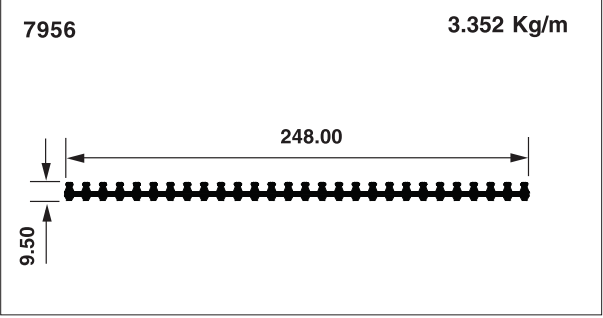
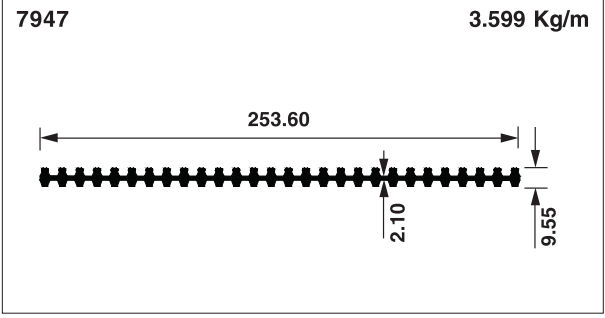
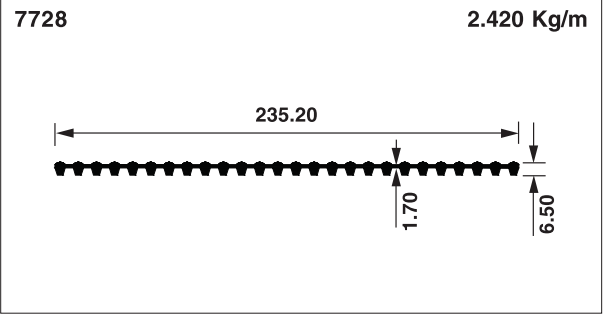




Expandable Grills

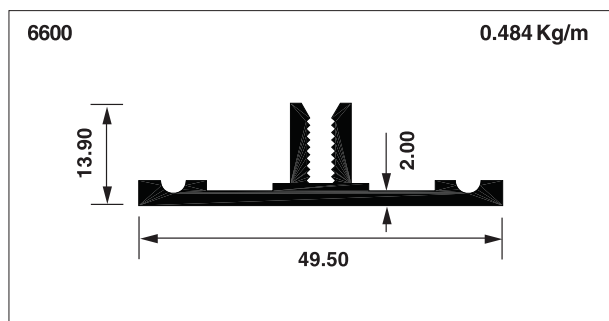
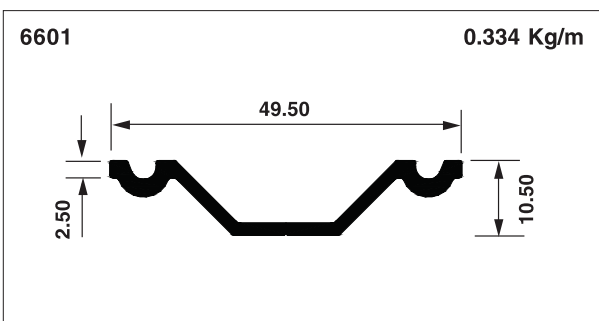
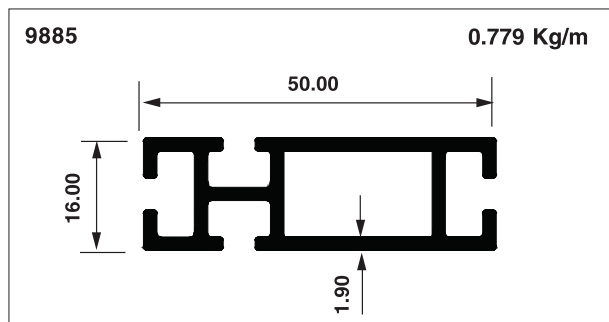
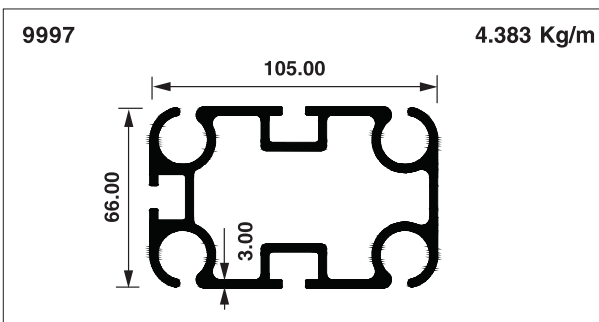
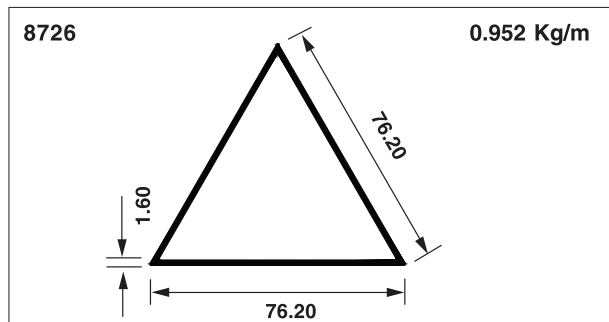
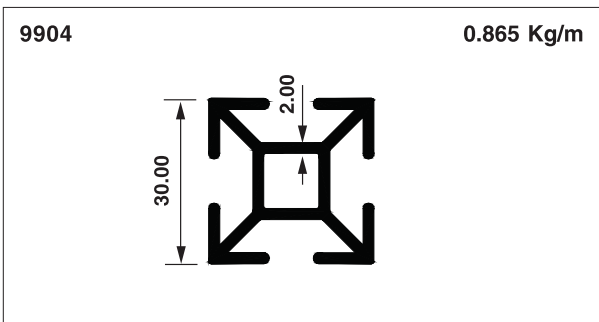
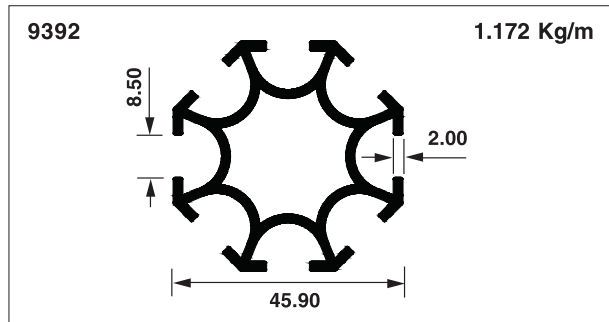
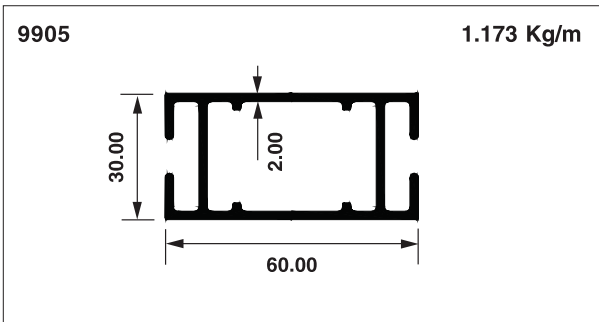
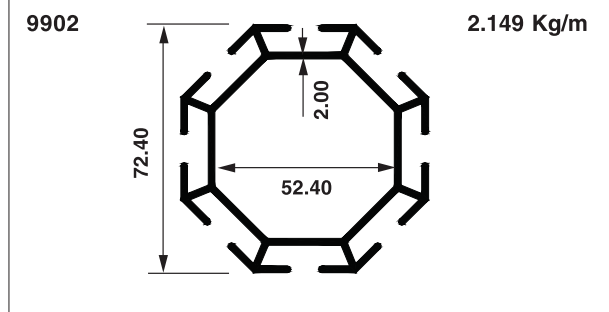
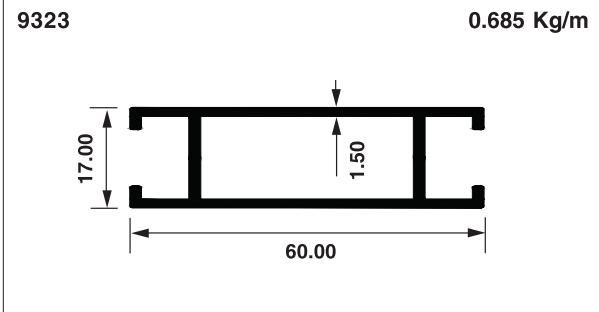


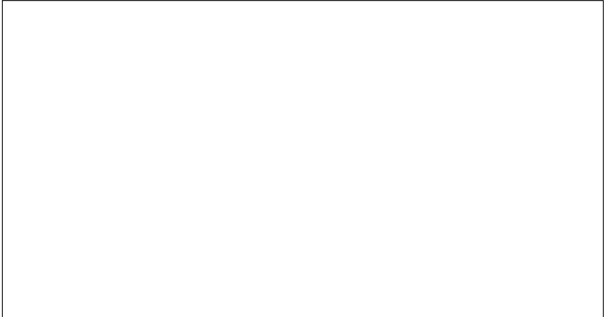
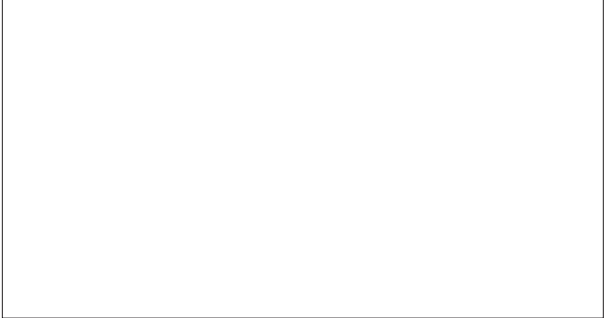
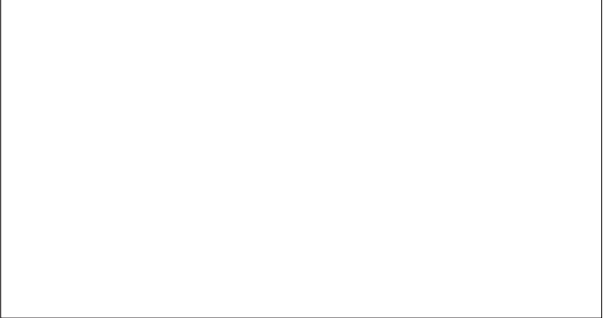
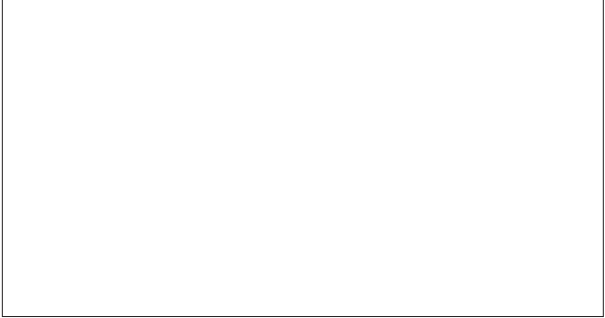
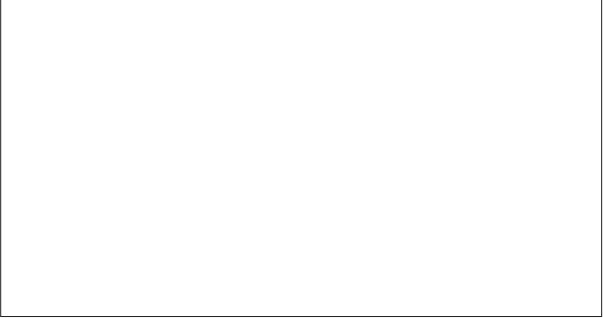
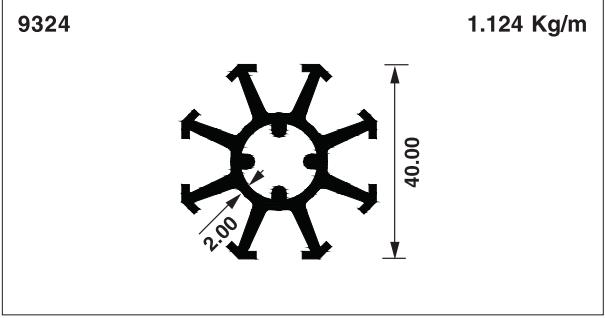
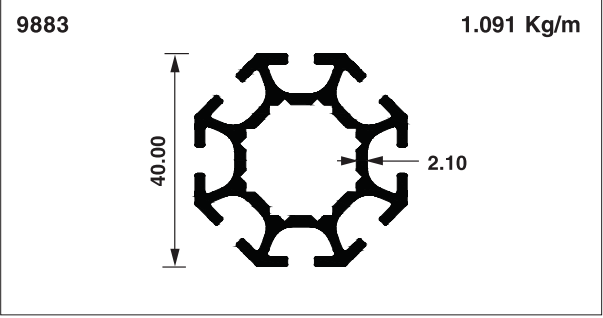
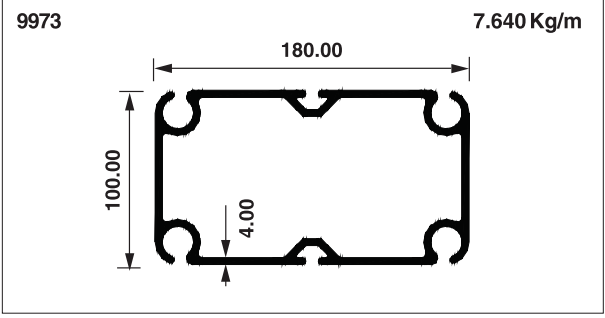
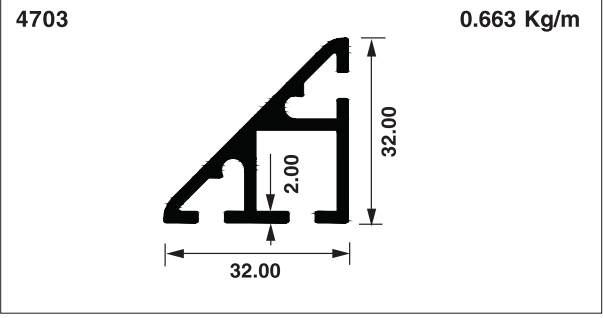
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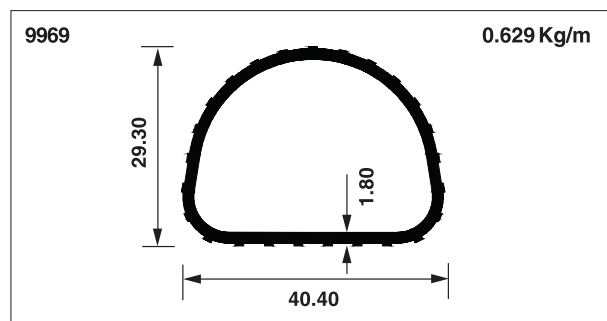
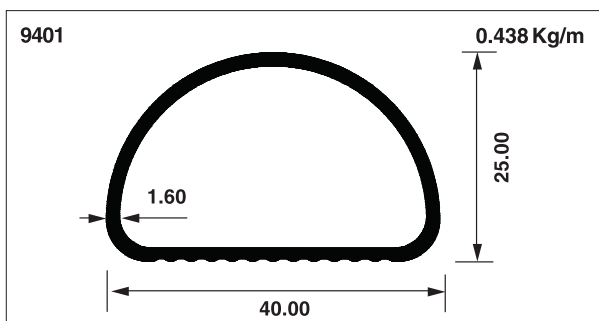
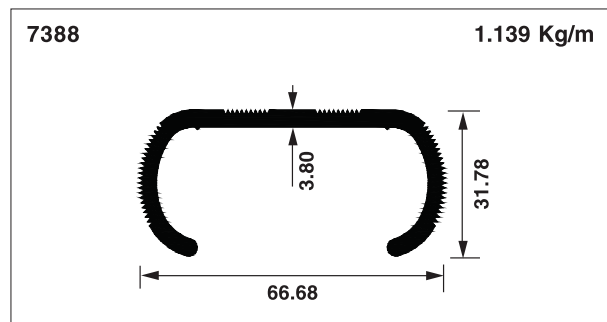
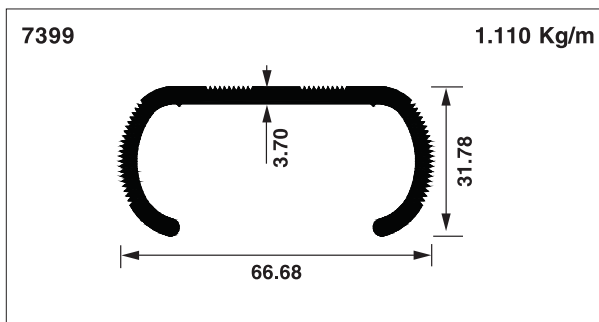
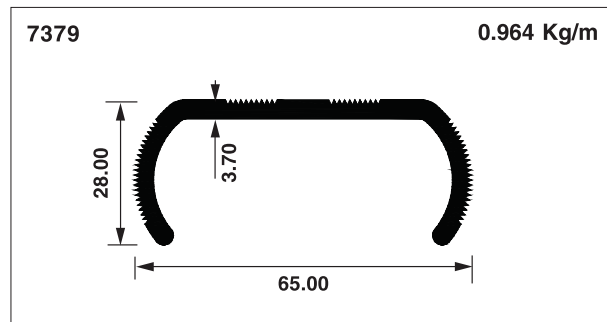
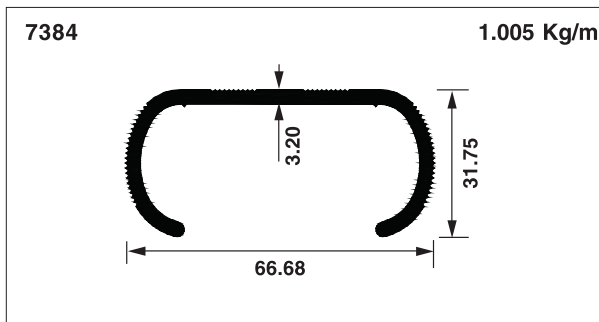
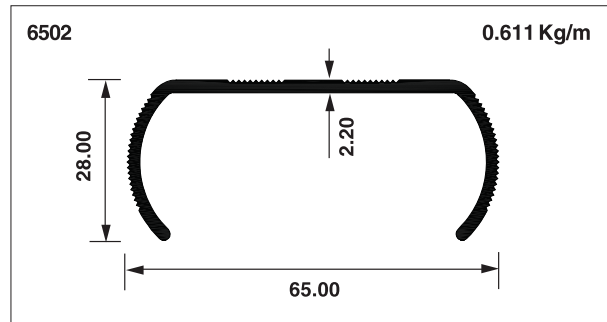
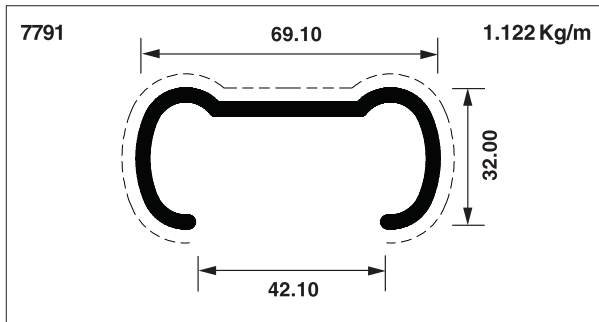
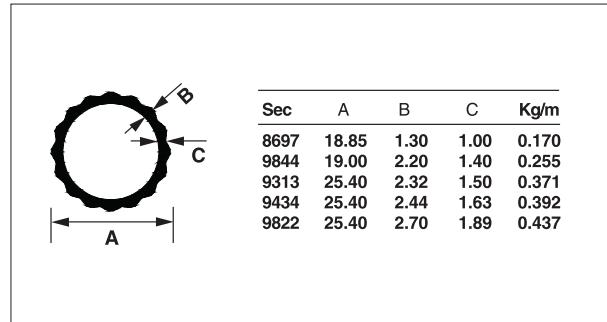
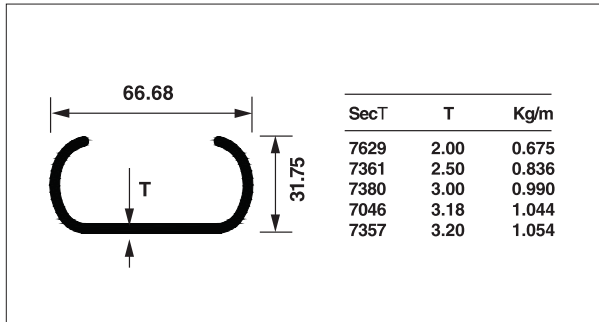




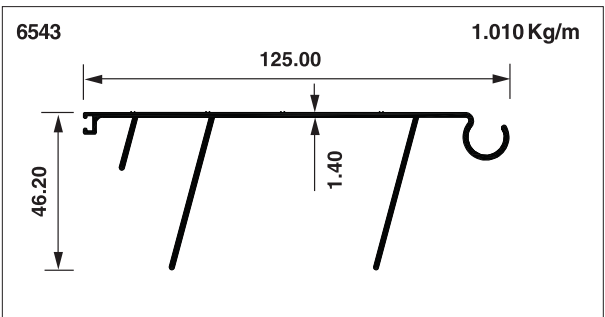
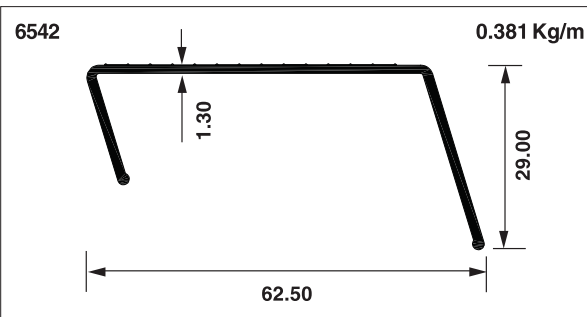
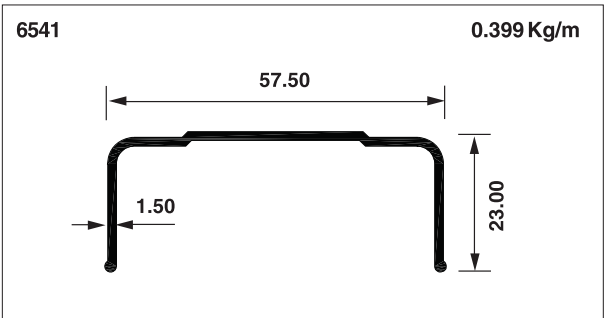
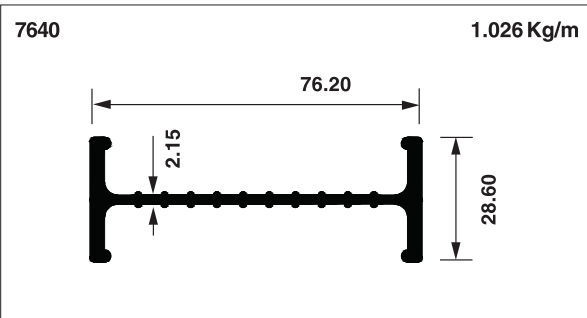
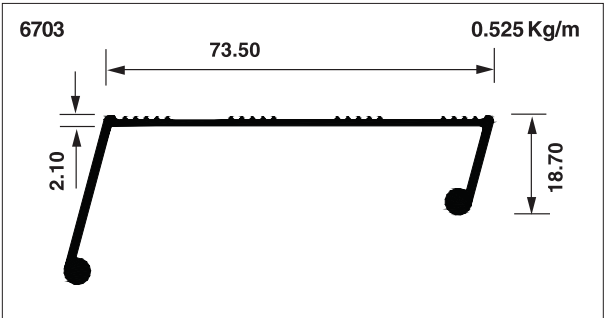
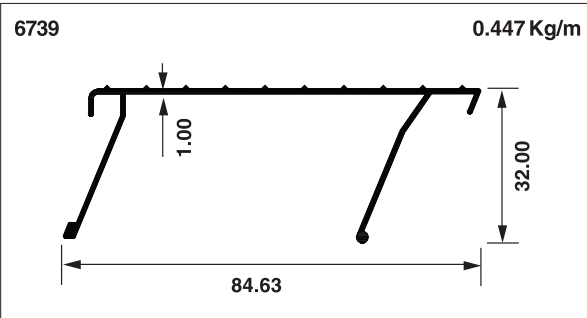
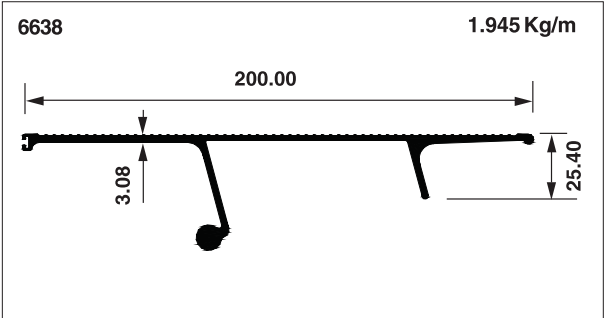
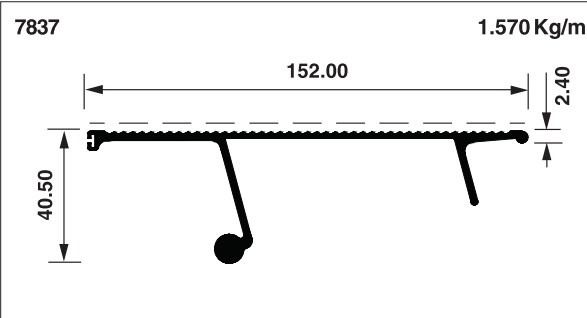
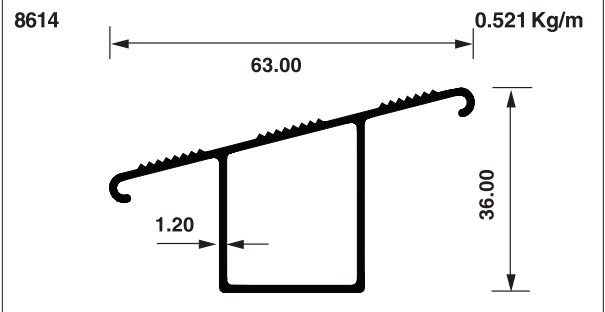
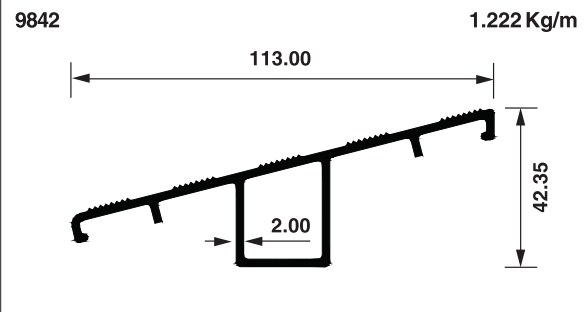
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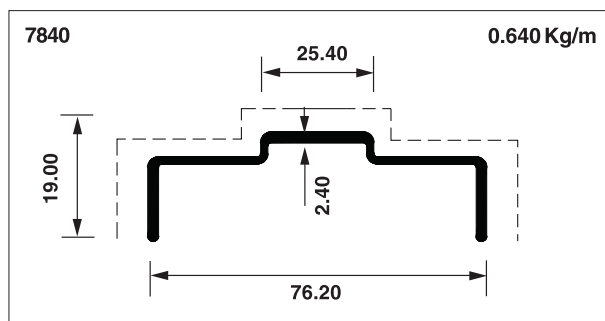
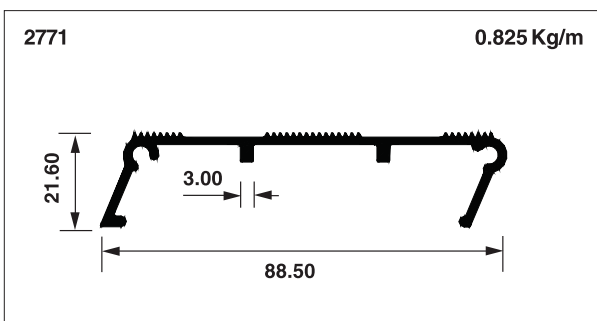
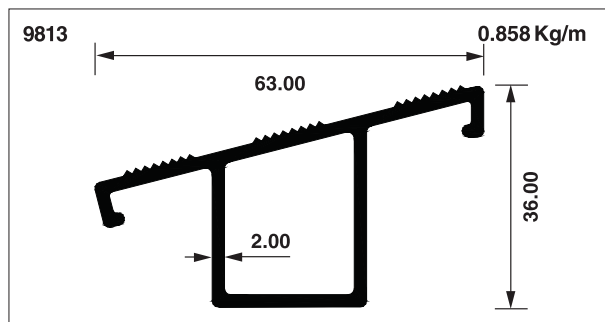
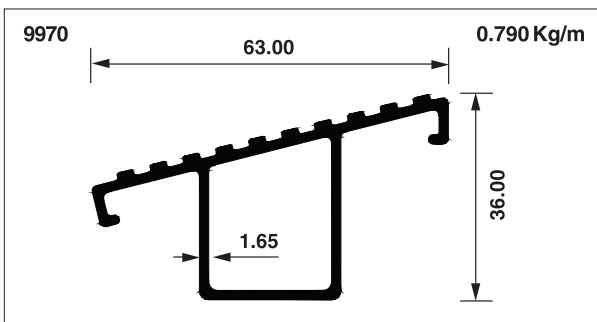
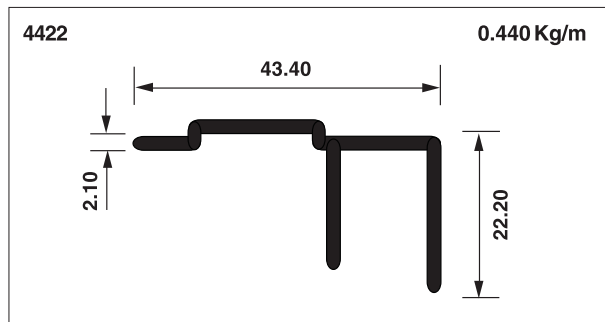
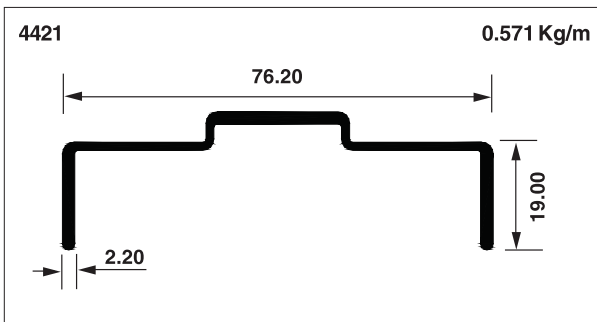
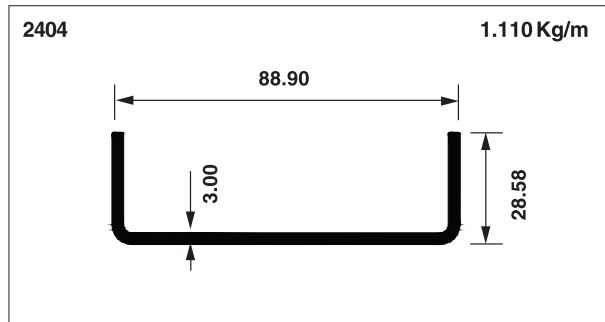
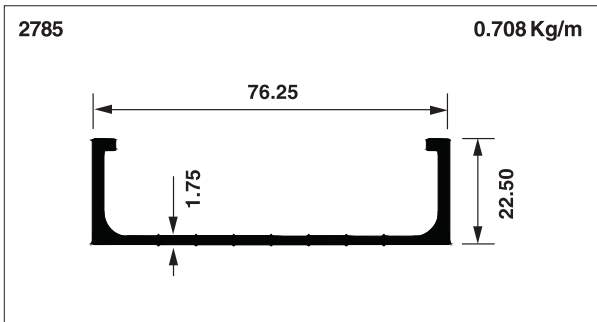
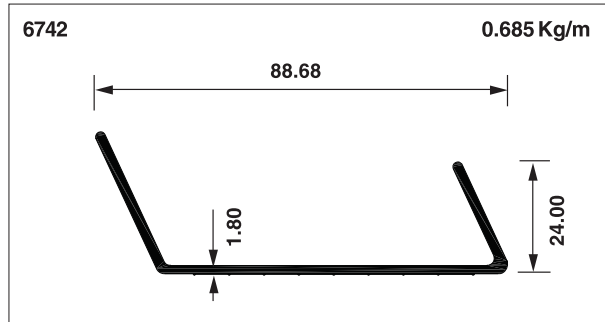
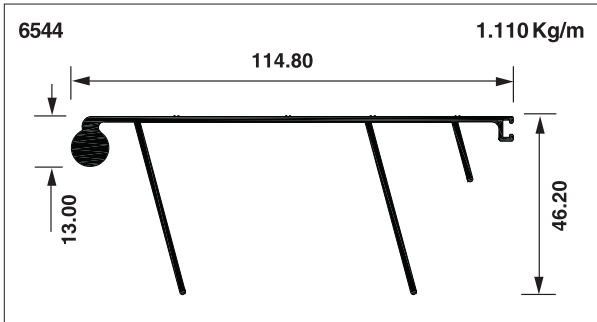


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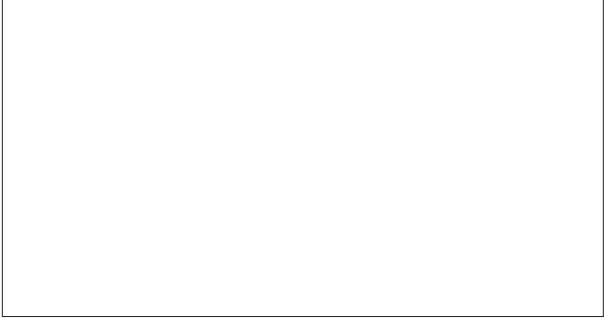
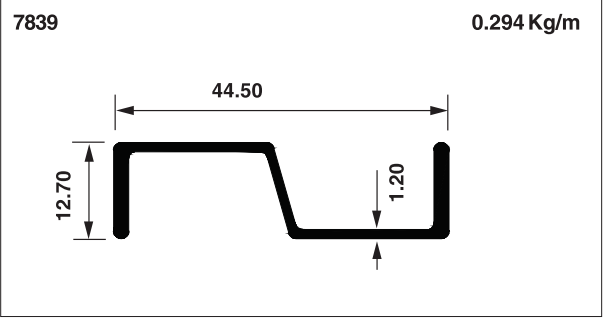
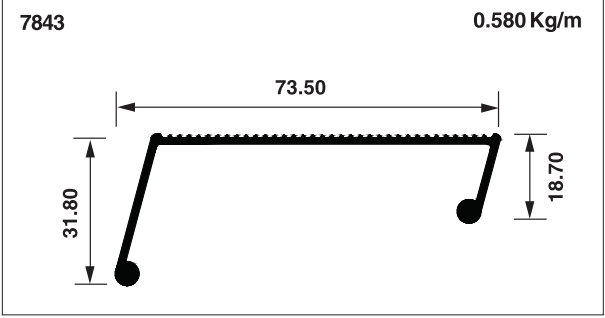
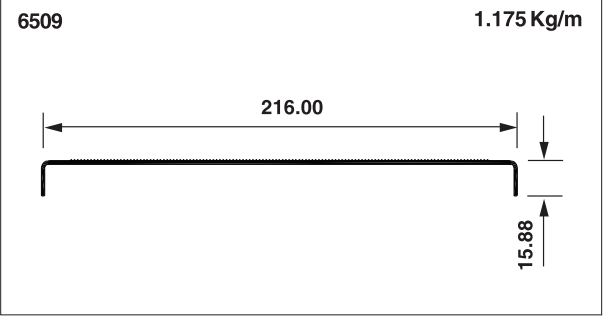
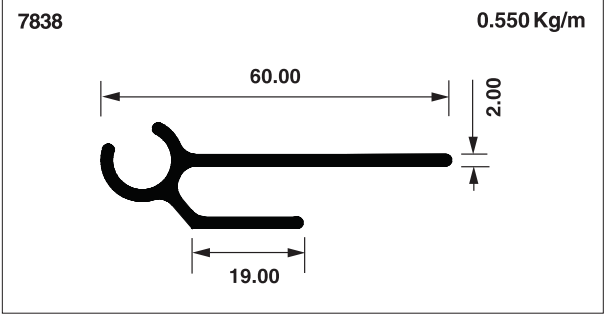
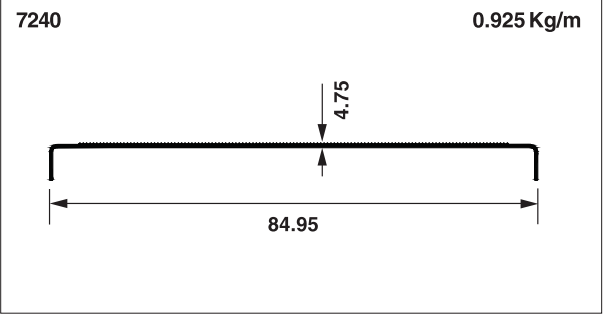




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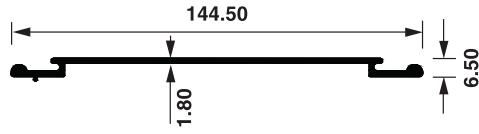
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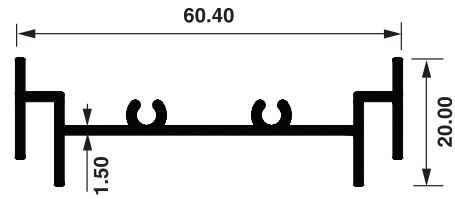


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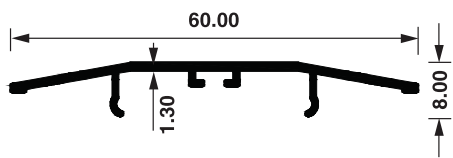
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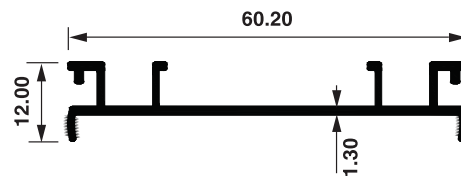
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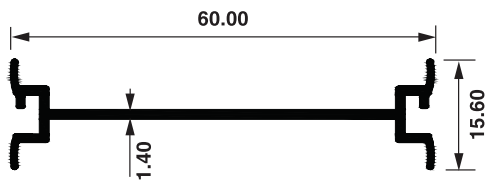
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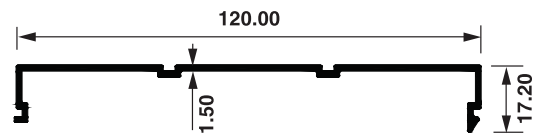
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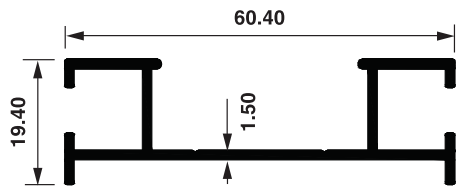
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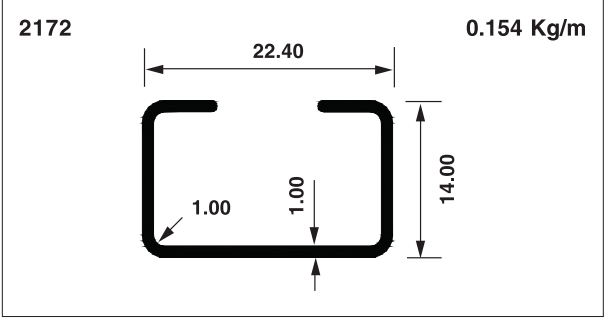
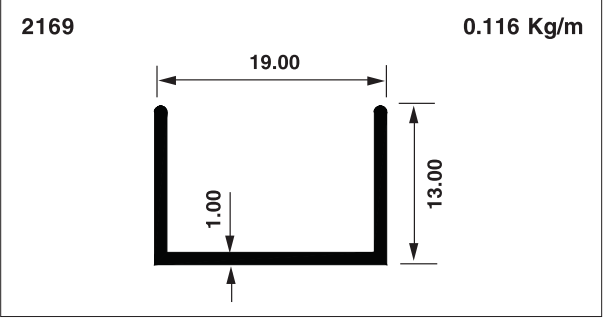
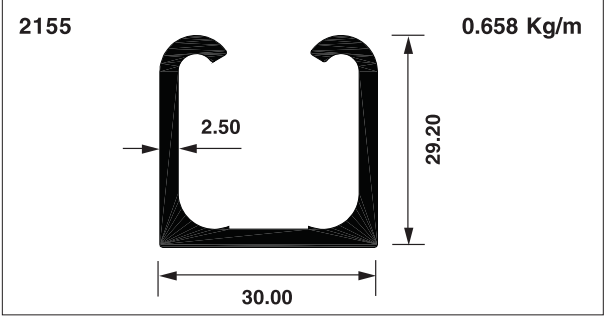
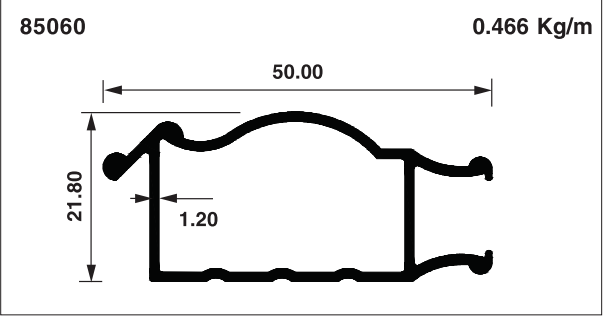
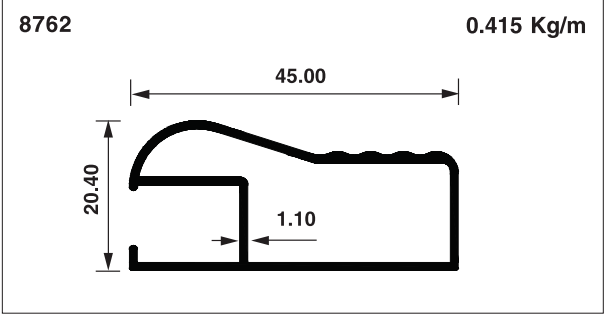
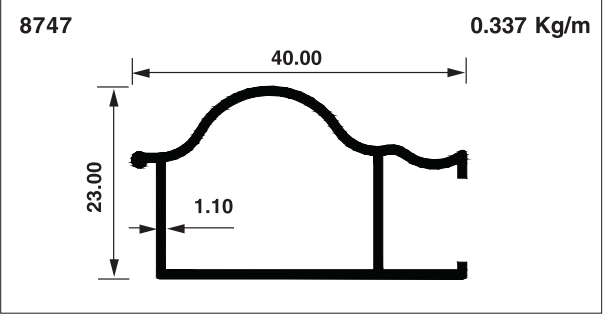


6738 0.656 Kg/m

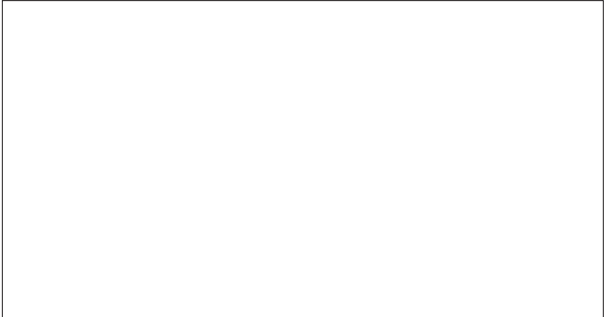
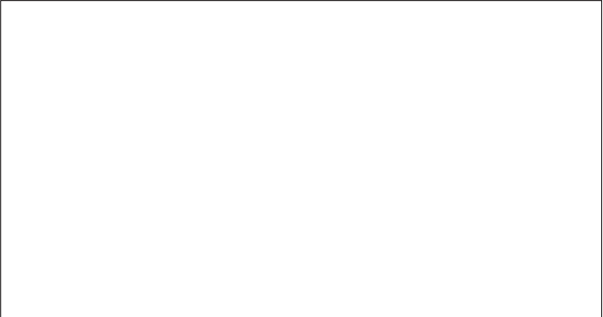


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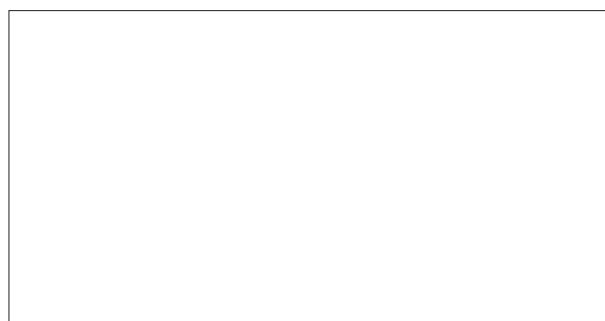
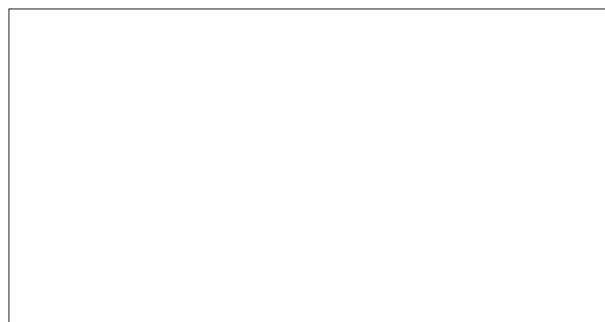
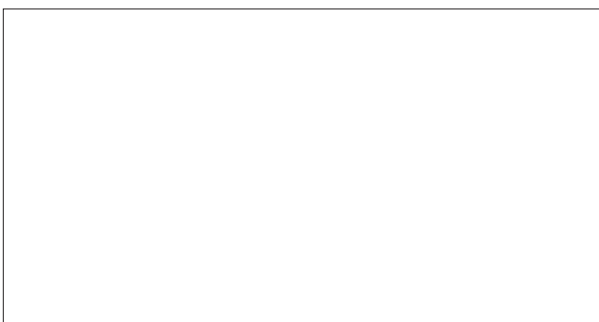
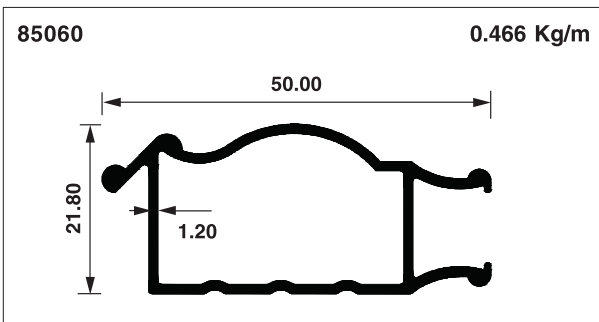
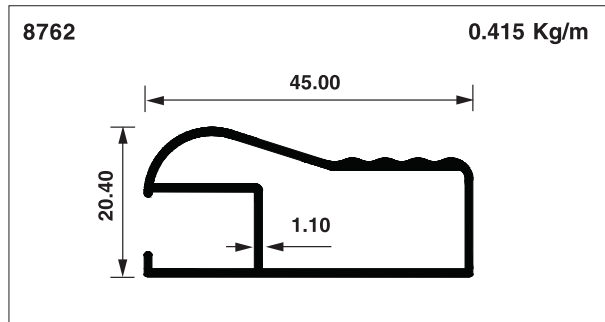
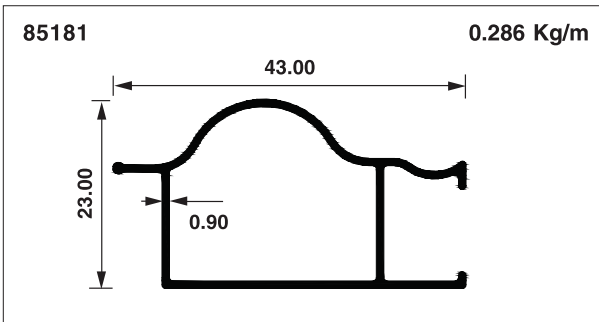
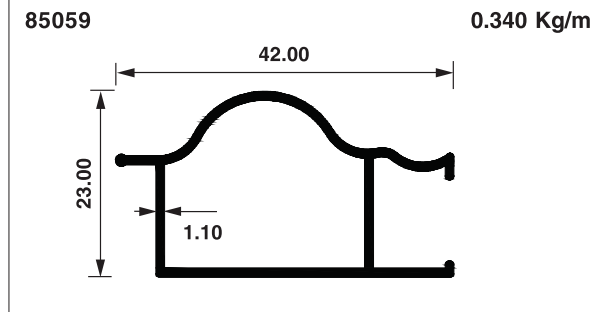
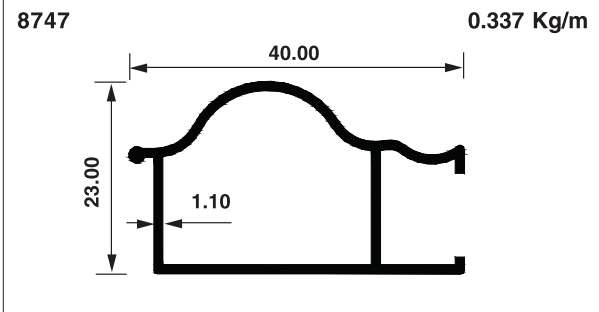


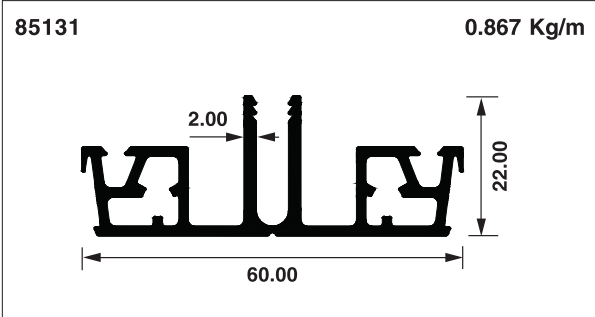
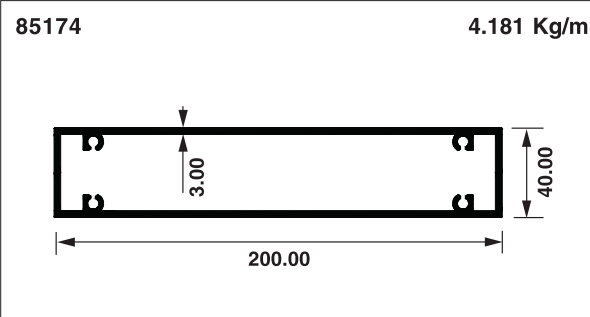
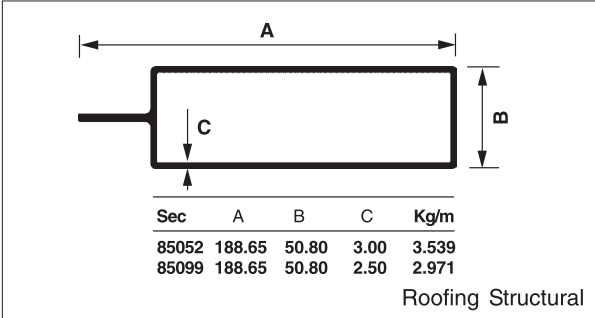
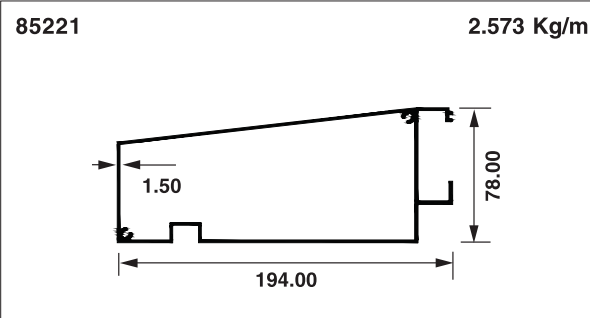
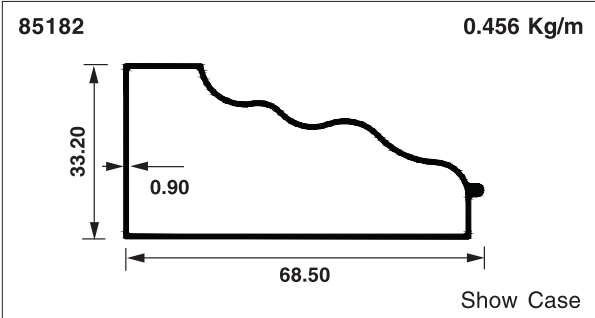
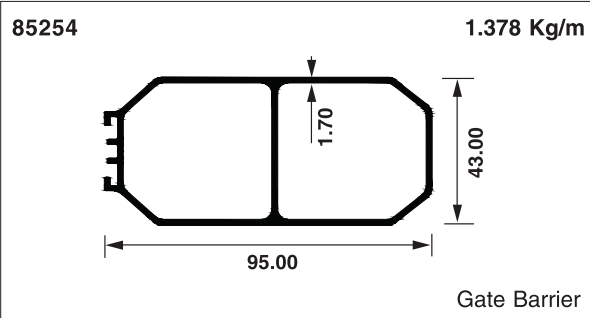
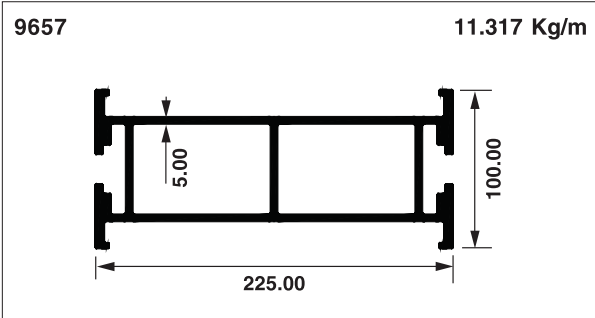
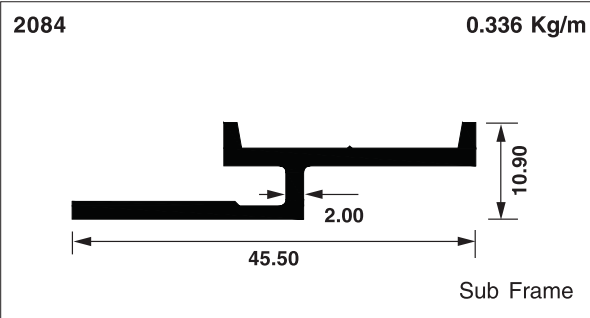
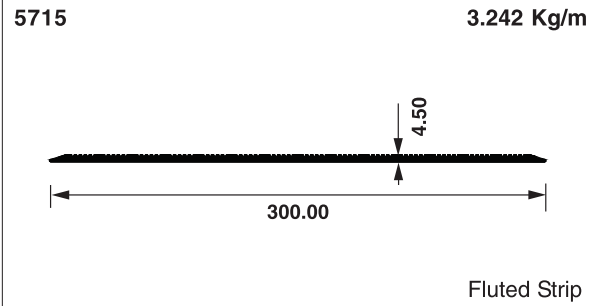
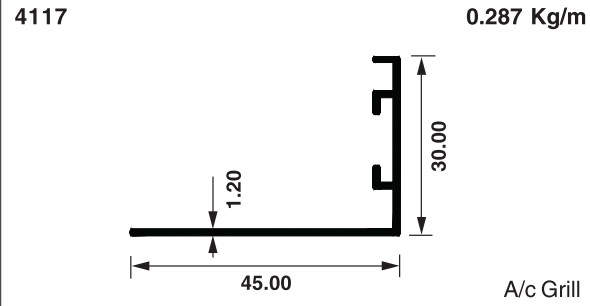
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2162	20.85	11.70	0.90	0.127





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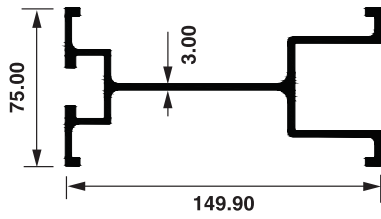




Miscellaneous

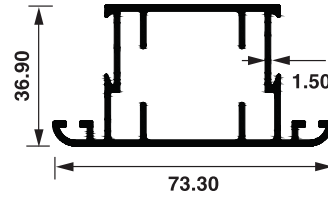
5659

3.278 Kg/m



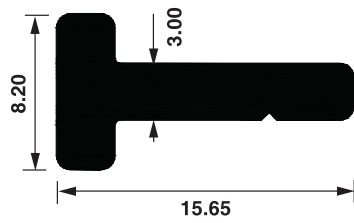
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3014

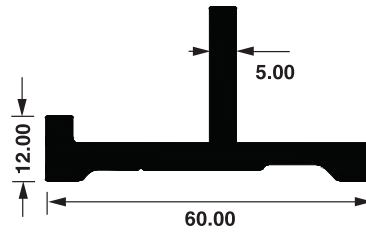
0.168 Kg/m



Toggle Cleat

3435

1.266 Kg/m



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