

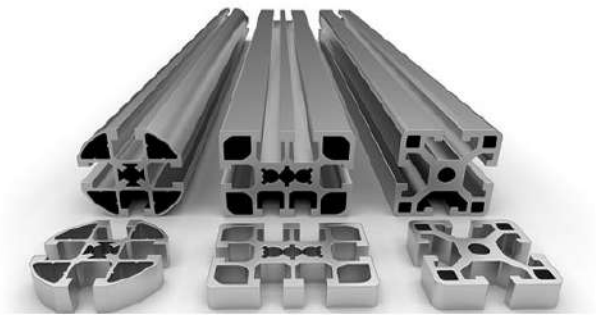
About Us

• ABOUT US

Excellence in Industrial Solutions Across the Globe

JHALCOS MANUFACTURES INC is a limited liability partnership (LLP) that was formed after realising the limitless potential of aluminium extrusions in the global market. By catering to the need for extruded aluminium products, a unit was set up in the KINFRA Industrial Centre located at Nadukani, Taliparamba in the Kannur District of North Kerala in the year 2015.

JHALCOS MANUFACTURES INC with the goal of manufacturing and delivering value-added aluminium products of the highest quality. The global aluminium market has had steady growth over the years. There is an ample market for aluminium products in the market if due quality is maintained. JHALCOS, by setting up their own commercial unit, tries to focus on the quality of the products and competitive pricing, which are the two major concerns in the market. JHALCOS manufactures the products locally by procuring raw materials locally. By providing high quality aluminium extruded products and superior customer service with a focus on value-added products, the customer gets ready to use products.



MISSION

To provide high quality Aluminium Extruded Products and superior customer service with a focus on value-added products to ensure the customers get ready to use products



VALUES

Commitments - Do whatever it takes to deliver superior customer value.

Courtesy - Towards our Customers, Employees, Vendors and the Society at large.

Integrity - Honesty in every action.

Speed - Act with urgency to deliver what we promise.

Team-work - Thinking and working together across hierarchy levels.



VISION

We shall strive to continuously expand our aluminum extrusion business and be the supplier of first choice to all our customers. We shall simultaneously look out for new and emerging business opportunities related to our field of competence.

Product Range

Standard Profiles

Flat bar,
hexagonal bar,
round bar,
square bar- we
have more than
100 Size

Hollow tubes
from
12.7 mm to 101 mm.
we have more than
100 size

Equal &
unequal angles.
We have more than
200 size

We also develop section to your requirements and size.

EQUAL TEE SECTIONS, UNEQUAL
TEE SECTIONS, AND SOME
CHANNELS

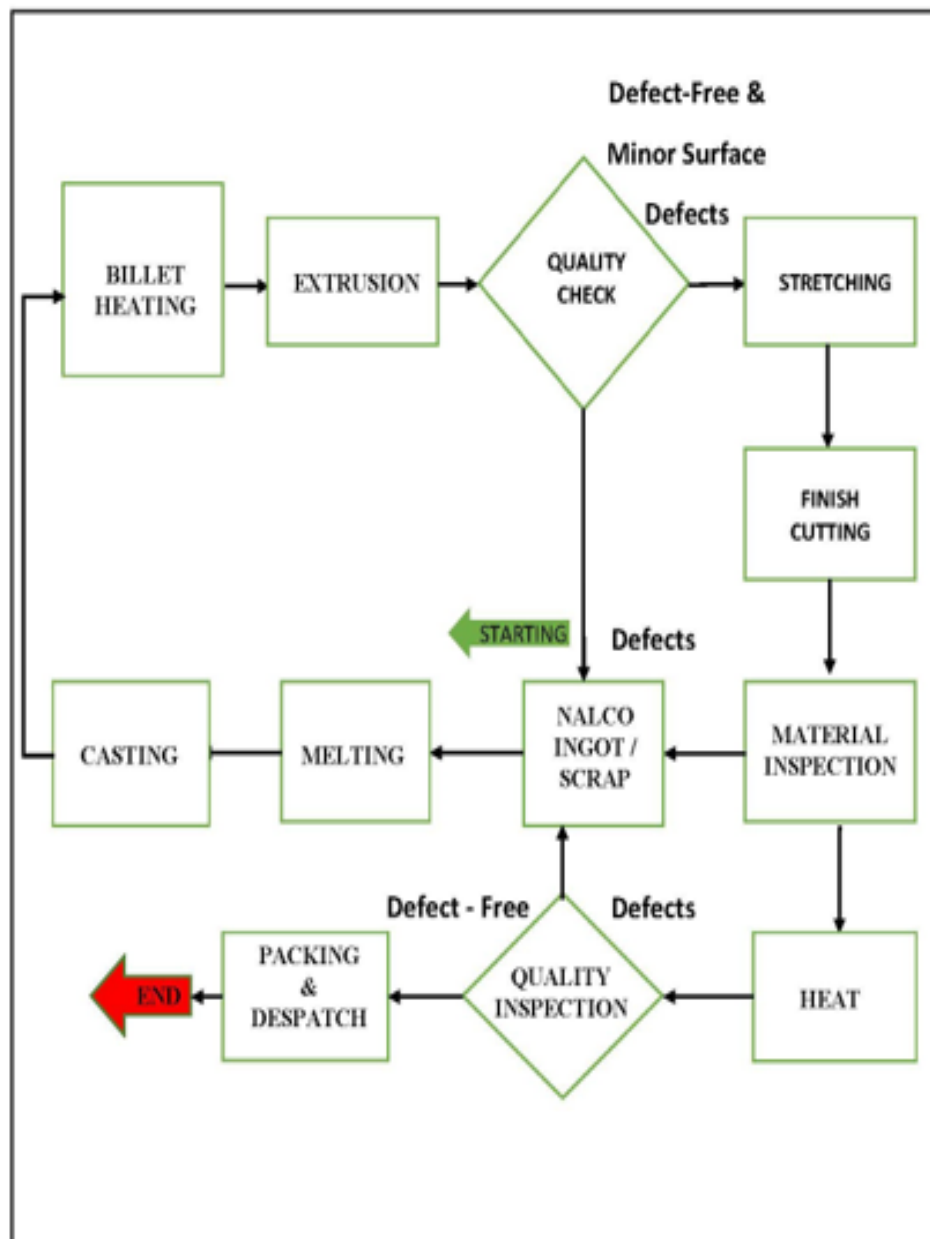
ARCHITECTURAL SECTIONS, DOOR
HANDLE, SLIDING DOOR, WINDOWS
SECTION AND DISPLAY SYSTEM.

MODULAR FURNITURE, SOLAR
PANNEL, ETC.

COOKER PATTI, TUBE CONECTOR
FOR AC SYSTEM, ETC.

PROFILE FOR AUTO COMPONENTS,
RAIL COACH AND BUS BODY
SECTIONS, ETC.

Production Process



Quality Assurance

THE COMPANY ADHERES TO STRINGENT QUALITY NORMS FOR ALL THE PROCESSES THE MATERIALS USED BY NARAYAN ALUMINIUM USES ARE OF VERY HIGH QUALITY AND COMPATIBLE TO THE MACHINERY AND PRODUCTION PROCESS. THE COMPANY'S TECHNICAL AND COMMERCIAL QUALITY GUIDELINES ARE SET TO HIGH STANDARD. A TEAM SUPERVISES THE QUALITY ASSURANCE AND CONTROL ASPECTS ALONG WITH THE ENTIRE PROCESS SYSTEM BY IDENTIFYING AND ASSOCIATING WITH THE QUALITY CIRCLE. QUALITY TESTS ARE CONDUCTED REGULARLY TO MAINTAIN A UNIFORM PRODUCT QUALITY.

Measuring & testing Instruments

Sr. No	INSTRUMENT NAME	RANGE	UTILITY
1.	UNIVERSAL TESTING MACHINE	0-200 KN	TO TEST THE TENSILE STRENGTH 0.2% PROOF STRESS & ELONGATION OF THE MATERIAL.
2.	VICKER CUM BRINELL HARDNESS TESTER	5.57-908 HBS	TO TEST THE HARDNESS OF THE MATERIAL.
3.	ROCKWELL HARDNESS TESTER	0-100 HRC	TO TEST THE HARDNESS OF THE MATERIAL.
4.	SPECTRO METER (METALPOWER)	-	TO TEST THE CHEMICAL COMPOSITION OF ALUMINIUM AND ITS ALLOYS.
5.	WEBSTER	0-20	TO TEST THE HARDNESS OF PROFILES.
6.	CONDUCTIVITY METER WITH DIGITAL DISPLAY	10%-102% <u>I.A.C.S</u>	TO TEST THE ELECTRICAL CONDUCTIVITY OF BUS BARS & IPS TUBES.
7.	MICRONMETER	0-63.5 MM	TO MEASURE THE COATING THICKNESS OF POWDER COATING & ANODISING PROFILES.
8.	DIGITAL MICROMETER	0-25 MM	TO MEASURE THE THICKNESS OF PROFILES.
9.	DIGITAL VERNIER CALIPER	0-150,0-300,0-600 MM	TO MEASURE THE DIMENSION OF PROFILES.
10.	ULTRASONIC FLAW DETECTOR	0-5000 MM	TO MEASURE THE DISCONTINUITY IN THE PROFILE.

TERMS & CONDITIONS

MINIMUM ORDER

A minimum quantity of 250 kg in one specification is acceptable in case of sections included in this catalogue. Marketing department to be contacted directly for any sections required not included in the catalogue.

LENGTH

Extrusions less than 1500 mm or more than 5000 mm long may be supplied only on request.

RANDOM LENGTH

Unless exact cut length is requested, material will be supplied in random length between 915 mm to 3660 mm.

WEIGHT

The weight per 3.660-meter length given in this catalogue is the nominal weight and should be treated as an indication only since in practice factor viz., tolerance and alloy will determine the actual weight of the section.

DIMENSION & TOLERANCES

Sections will be supplied in our standard dimensional tolerances. Although the dimensions have been indicated in the catalogue, to ensure that the correct section ordered, the full dimensions and tolerance should get confirmed by us.

SHIPPING TOLERANCES

Material will be supplied against ordered quantity within the shipping tolerance of $\pm 10\%$

HOW TO ORDER

For expeditious execution of orders and for supplies of right material, it is desirable that complete details regarding specification and application (end-use) of materials are indicated. For orders, kindly ensure to indicate the following:

- (a) Section No.
- (b) Alloy & Temper
- (c) Cut Length (in mm)
- (d) Quantity (in Kg)
- (e) End-Use
- (f) Mode of packing (Wooden box / Hessian / Naked)
- (g) Quality Criteria (Surface Finish / Mill Finish / Powder Coating / Anodizing)

In the following pages the information furnished on various wrought aluminum alloys is given for general guidance only and does not necessarily indicate availability.

[Chemical Composition of Wrought Aluminium and Aluminium Alloys Limits \(Percentage\)](#)

NEW (IS)	EQUIVALENT ALLOY (AA)	Si		Fe		Cu		Mn		Mg		Cr		Zn		Ti		Others TOTAL	Al (MIN.)
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.		
19000	1100	0.95 Si+ Fe				0.05	0.20	-	0.05	-	-	-	-	-	0.10	-	-	0.15	99.00
19500	1050	-	0.25	-	0.40	-	0.05	-	0.05	-	0.05	-	-	-	0.07	-	0.05	0.10	99.50
19501	-	-	0.15	-	0.35	-	0.04	-	0.02	-	-	0.02	-	-	0.02	-	-	0.10	99.50
19600	1060	-	0.25	-	0.35	-	0.05	-	0.03	-	0.03	-	-	-	0.05	-	0.03	-	99.60
24345	2014	0.50	1.20	-	0.70	3.90	5.00	0.40	1.20	0.20	0.80	-	0.10	-	0.25	-	0.15	0.15	Rem.
24534	2017	0.20	0.70	-	0.70	3.50	4.70	0.40	1.20	0.40	1.20	-	-	-	-	-	-	0.15	Rem.
-	2024	-	0.50	-	0.50	3.80	4.90	0.30	0.90	1.20	1.80	-	0.10	-	0.25	-	0.15	0.15	Rem.
31000	3003	-	0.60	-	0.70	0.05	0.20	1.00	1.50	-	-	-	-	-	0.10	-	-	0.15	Rem.
43000	4043	4.50	6.00	-	0.60	-	0.10	-	0.50	-	0.20	-	-	-	0.20	-	-	0.15	Rem.
52000	5052	-	0.25	-	0.40	-	0.10	-	0.10	2.20	2.80	0.15	0.35	-	0.10	-	-	0.15	Rem.
53000	5086	-	0.40	-	0.50	-	0.10	0.20	0.70	3.50	4.50	0.05	0.25	-	0.25	-	0.15	0.15	Rem.
54300	5083	-	0.40	-	0.40	-	0.10	0.40	1.00	4.00	4.90	0.05	0.25	-	0.25	-	0.15	0.15	Rem.
65032	-	0.40	0.80	-	0.70	0.15	0.40	0.20	0.80	0.70	1.20	0.15	0.35	-	0.20	-	0.20	0.15	Rem.
-	6061	0.40	0.80	-	0.70	0.15	0.40	-	0.15	0.80	1.20	0.04	0.35	-	0.25	-	0.15	0.15	Rem.
63400	6063	0.20	0.60	-	0.35	-	0.10	-	0.10	0.45	0.90	-	0.10	-	0.10	-	0.10	0.15	Rem.
-	6066	0.90	1.80	-	0.50	0.70	1.20	0.60	1.10	0.80	1.40	-	0.40	-	0.25	-	0.20	0.15	Rem.
-	6060	0.30	0.60	0.10	0.30	-	0.10	-	0.10	0.35	0.60	-	0.50	-	0.15	-	0.10	0.15	Rem.
63401	6101	0.30	0.70	-	0.50	-	0.05	-	0.03	0.40	0.90	-	0.03	-	0.10	-	0.10	0.10	Rem.
64430	6351	0.70	1.30	-	0.50	-	0.10	0.40	0.80	0.40	0.80	-	-	-	0.20	-	0.20	0.15	Rem.
-	6082	0.70	1.30	-	0.50	-	0.10	0.40	1.00	0.60	1.20	-	0.25	-	0.20	-	0.10	0.15	Rem.
74530	7039	-	0.40	-	0.70	-	0.20	0.20	0.70	1.00	1.50	-	0.20	4.00	5.00	-	0.20	0.15	Rem.
-	7075	-	0.40	-	0.50	1.20	2.00	-	0.30	2.10	2.90	0.18	0.28	5.10	6.10	-	0.20	0.15	Rem.

MECHANICAL PROPERTIES

Alloy	Temper	Reference	Tensile Strength (Mpa)	0.2 % Proof Stress (Mpa)	% E Or 50 mm GL (mm)	Conductivity at 20°C (min)	Bending Test
19000/1100	M/F	IS	65 (Min)	20 (Min)	18	-	-
		AA	75 (Max)	-	25	-	-
	O	IS	110 (Max)	-	25	-	-
		AA	90 (Max)	-	25	-	-
19500/1050	M/F	IS	65 (Min)	18 (Min)	23	-	-
		AA	60 (Min)	20 (Min)	23	-	-
	O	IS	100 (Max)	-	25	-	-
		AA	95 (Max)	20 (Min)	25	-	-
19501/1350	M/F	IS	60 (Min)	-	25	60	-
		AA	60 (Min)	-	23	61	-
19600	M/F	IS	65 (Min)	18 (Min)	23	-	-
	O	IS	95 (Max)	-	25	-	-
24345/2014	M/F	IS	150 (Min)	90 (Min)	12	-	-
	O	IS	240 (Max)	175 (Max)	12	-	-
		AA	250 (Max)	135 (Max)	12	-	-
	W/T4	IS	385 (Min)	235 (Max)	10	-	-
		AA	370 (Min)	230 (Max)	10	-	-
	WP/T6	IS	430 (Min)	375 (Min)	6	-	-
		AA	415 (Min)	370 (Min)	7	-	-
24534/2017	M/F	IS	150 (Min)	90 (Min)	12	-	-
	O	IS	240 (Max)	175 (Max)	12	-	-
		AA	250 (Max)	135 (Max)	10	-	-
	W/T4	IS	385 (Min)	235 (Max)	10	-	-
		AA	380 (Min)	260 (Max)	8	-	-
2024	O	AA	250 (Max)	150 (Max)	12	-	-
	T4	AA	395 (Min)	290 (Min)	10	-	-
31000/3003	M/F	IS	95 (Min)	-	16	-	-
		AA	95 (Min)	35 (Min)	25	-	-
	O	IS	130 (Max)	-	20	-	-
		AA	135 (Max)	35 (Min)	20	-	-
43000/4043	F	IS	90 (Min)	-	16	-	-
	O	IS	130 (Max)	-	18	-	-
		AA	130 (Max)	-	25	-	-
52000/5052	F	IS	160 (Min)	70 (Min)	14	-	-
		AA	170 (Min)	70 (Min)	13	-	-
	O	IS	240 (Max)	-	18	-	-
		AA	230 (Max)	70 (Min)	15	-	-
23000/5086	F	IS	215 (Min)	100 (Min)	14	-	-
		AA	240 (Min)	95 (Min)	10	-	-
	O	IS	260 (Max)	-	16	-	-
		AA	320 (Max)	95 (Min)	15	-	-

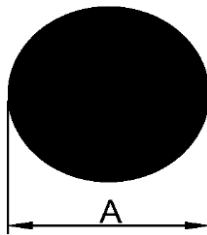
54300/5083	F	IS	265 (Min)	130 (Min)	11	-	-
		AA	270 (Min)	110 (Min)	10	-	-
	O	IS	350 (Max)	125 (Min)	13	-	-
		AA	270 (Min)	110 (Min)	10	-	-
65032	F/M	IS	110 (Min)	50 (Min)	12	-	-
	O	IS	150 (Max)	115 (Max)	16	-	-
	W	IS	185 (Min)	115 (Max)	14	-	-
	WP	IS	280 (Min)	235 (Min)	7	-	-
6061	O	AA	150 (Max)	100 (Max)	14	-	-
	T4	AA	180 (Min)	110 (Min)	13	-	-
	T6	AA	260 (Min)	240 (Min)	6	-	-
63400/6063	F	IS	110 (Min)	-	13	-	-
		AA	-	-	-	-	-
	O	IS	130 (Max)	-	18	-	-
		AA	130 (Max)	-	16	-	-
	W/T4	IS	140 (Min)	80 (Min)	14	-	-
		AA	130 (Min)	65 (Min)	12	-	-
	WP/T6	IS	185 (Min)	150 (Min)	7	-	-
		AA	215 (Min)	170 (Min)	8	-	-
6060	T4	AA	120 (Min)	60 (Min)	14	-	-
	T5	AA	160 (Min)	120 (Min)	6	-	-
	T6	AA	190 (Min)	150 (Min)	6	-	-
6066	O	AA	200 (Max)	124 (Max)	16	-	-
	T4	AA	276 (Min)	172 (Min)	14	-	-
	T6	AA	345 (Min)	310 (Min)	8	-	-
63401/6101	W/T4	IS	140 (Min)	80 (Min)	12	-	-
	WP RANGE-1	IS	170 (Min)	135 (Min)	12	56.5	-
	WP RANGE-2	IS	200 (Min)	170 (Min)	10	55.0	-
64430/6351	M/F	IS	110 (Min)	-	14	-	-
	W/T4	IS	185 (Min)	120 (Min)	14	-	-
		AA	205 (Min)	110 (Min)	12	-	-
	WP/T6	IS	295 (Min)	235 (Min)	7	-	-
		AA	310 (Min)	260 (Min)	6	-	-
6082	O	AA	160 (Max)	110 (Max)	12	-	-
	T4	AA	205 (Min)	110 (Min)	12	-	-
	T6	AA	310 (Min)	260 (Min)	6	-	-
74530/7039	W/T4	IS	255 (Min)	220 (Min)	9	-	-
		AA	255 (Min)	216 (Min)	9	-	-
	WP/T4	IS	285 (Min)	245 (Min)	7	-	-
		AA	284 (Min)	245 (Min)	7	-	-
7075	O	AA	275 (Max)	165 (Max)	8	-	-
	T6	AA	540 (Min)	480 (Min)	5	-	-

Sl. No	Alloy Designation		Reference	Application
	IS	AA		
1	19000	1100	IS	Panelling & moulding, refrigeration tubing, equipment for chemical, food and brewing industrial packaging, cooking utensils, architectural and builder's hardware, deep drawn parts, welding wire, cladding, electrical applications.
			AA	
2	19500	1050	IS	Corrosion resistant cladding on stronger alloys impact extruded containers; food, brewing and processing equipment; tanks & pipes, marine fittings, reflectors, presses and anodized utility items
			AA	
3	19501	1350	IS	Electrical application
			AA	
4	19600	-	IS	Corrosion resistant cladding on stronger alloys impact extruded containers; food, brewing and processing equipment; tanks & pipes, marine fittings, reflectors, presses and anodized utility items
5	24345	2014	IS	Heavy duty forging, structures with high mechanical properties, aircraft application of clad sheets, extrusions and armaments
			AA	
6	24534	2017	IS	Stresses parts in aircrafts and other structures with high strengths
			AA	
7	-	2024	AA	Aircraft structures, rivets, hardware, truck wheels, screw machine products
8	31000	3003	IS	Moderate strength applications for chemical equipment, irrigation tubing, heat exchangers, furnitures, condenser, air-conditioning, ducting, pressure vessels, detonator caps, vehicle panneling & etc
			AA	
9	43000	4043	IS	Filler wire for welding
			AA	
10	52000	5052	IS	Panneling & structures, sheet metal work and domestic appliances, marine application like sheathing/lining of boat bottom & etc
			AA	
11	53000	5086	IS	Ship building, rivets, pressure vessels and other processing tanks, cryogenics and welded structures
			AA	
12	54300	5083	IS	cryogenics applications, welded structures, structural marine applications, rail and road tank, cars, rivets and missile components.
			AA	
13	63400	6063	IS	Architectural uses and other similar applications where surface finish is important and medium strength would suffice.
			AA	
14	-	6060	AA	Architectural uses and other similar applications where surface finish is important and medium strength would suffice.
15	64430	6351	IS	Structural applications such as road and rail transport vehicles, bridges, cranes, roof trusses, rivets & etc, cargo containers, milk containers, deep-drawn containers and flooring.
			AA	
16	65032	6061	IS	Structural applications such as road and rail transport vehicles, bridges, cranes, roof trusses, rivets & etc, cargo containers, milk containers, deep-drawn containers and flooring.
			AA	
17	-	6066	AA	Forgings & extrusions for welded structures
18	63401	6101	IS	Bus bar application
			AA	
19	74530	-	IS	Stresses structural applications requiring welding such as bridges, chequered sheets, dump-truck bodies, pressure vessels, rail coaches & etc.
20	-	7039	AA	Cryogenics storage tanks, unfired pressure vessels, ordnance tanks, armour plate, missile structure & etc.
21	-	7075	AA	Aircraft structural parts & other highly stressed structural applications where very high strength & good corrosion resistance is required

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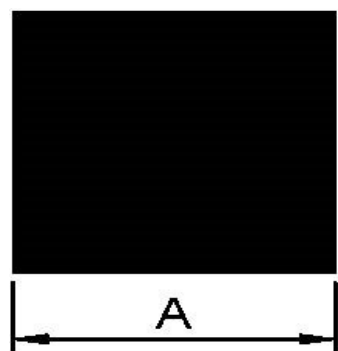
SL.NO.	PROFILE TYPES	PROFILE RANGE	PAGE NO.
1	ROUND ROD	10000-10025	
2	SQUARE ROD	10501-10502	
3	FLAT BAR	11000-11063	
4	UNEQUAL ANGLE	12000-12005	
5	EQUAL ANGLE	12500-12518	
6	ROUND TUBE	13000-13053	
7	FLUTED TUBE	14000-14002	
8	SQUAR TUBE	15000-15019	
9	RECTANGULAR TUBE	15500-15538	
10	GLAZING, U-CHANNEL	16000-16301	
11	DOUBLE GLASS CHANNEL	16400-16601	
12	WINDOW PARTITION	17000-20705	
13	CURTAIN WALL	21000-21030	
14	SOLAR SECTION	21500-22010	
15	LADDER SECTION	22500-23004	
16	MISCELLANEOUS SECTION	23500-23634	

ROUND BAR



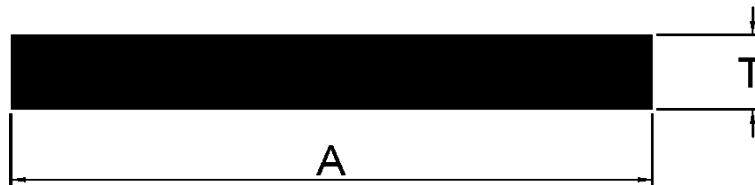
SECTION NO.	DIMENSION ARE IN MM	WEIGHT RANGE IN KG/12'
	A	
10000	8.00	0.500-0.525
10001	10.00	0.780-0.810
10002	15.88	2.000-2.200
10003	24.00	4.470-4.575
10004	28.80	6.400-6.600
10005	38.10	11.250-11.400
10006	50.00	19.000-20.900
10007	63.50	31.300-33.480
10008	70.00	38.000-39.900
10009	75.55	44.000-47.000
10010	12.00	1.100-1.300
10011	14.00	1.500-1.680
10012	19.00	2.800-3.100
10013	25.00	4.800-5.350
10014	30.00	6.980-7.700
10015	5.60	0.240-0.260
10016	7.30	0.410-0.450
10017	10.80	0.900-0.990
10018	13.00	1.310-1.440
10019	16.00	1.980-2.100
10020	17.10	2.260-2.490
10021	19.80	3.000-3.340
10022	21.00	3.420-3.760
10023	24.50	4.650-5.124
10024	25.00	4.800-5.300
10025	59.00	27.000-29.700

SQUARE BAR



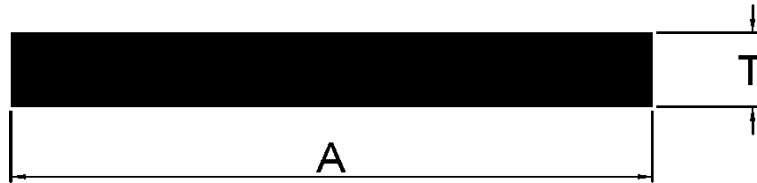
SECTION NO.	DIMENSION ARE IN MM	WEIGHT RANGE IN KG/12'
	A	
10501	31.75	9.950-10.650
10502	38.10	14.350-15.500

FLAT BAR



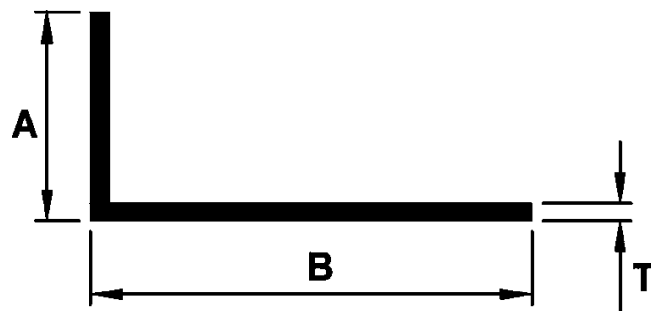
SECTION NO.	DIMENSION ARE IN MM		WEIGHT RANGE IN KG/12'
	A	T	
11000	19.00	6.00	1.100-1.250
11001	20.00	6.00	1.200-1.350
11002	20.00	10.00	1.900-2.100
11003	25.00	3.00	0.700-0.900
11004	25.00	6.00	1.500-1.700
11005	25.00	8.00	1.900-2.100
11006	25.00	10.00	2.500-2.800
11007	25.00	12.00	2.900-3.200
11008	30.00	10.00	3.000-3.400
11009	30.00	12.00	3.500-3.850
11010	30.00	6.00	1.700-1.900
11011	40.00	3.00	1.100-1.211
11012	40.00	5.00	2.000-2.200
11013	40.00	6.00	2.300-2.500
11014	40.00	8.00	3.100-3.400
11015	40.00	10.00	3.900-4.400
11016	40.00	12.00	4.700-5.200
11017	50.00	5.00	2.400-2.650
11018	50.00	6.00	2.900-3.200
11019	50.00	8.00	3.900-4.300
11020	50.00	10.00	4.850-5.350
11021	50.00	12.00	5.900-6.400
11022	50.00	16.00	7.850-8.650
11023	50.00	20.00	9.800-10.780
11024	60.00	6.00	3.500-3.850
11025	60.00	10.00	5.900-6.400
11026	60.00	12.00	7.000-7.500
11027	63.00	6.00	3.700-4.100
11028	63.00	10.00	6.200-6.800
11029	63.00	12.00	7.350-8.100
11030	75.00	6.00	4.350-4.750
11031	75.00	10.00	7.350-8.000
11032	75.00	12.00	8.800-9.300
11033	75.00	16.00	11.750-12.925
11034	75.00	20.00	14.800-16.280

FLAT BAR



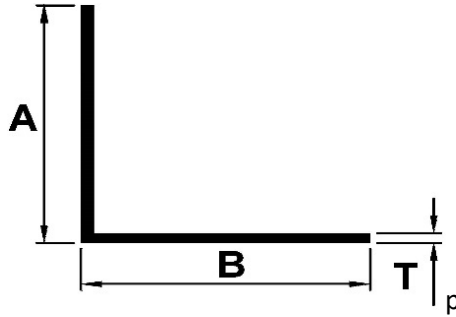
SECTION NO.	DIMENSION ARE IN MM		WEIGHT RANGE IN KG/12'
	A	T	
11035	80.00	6.00	4.700-5.200
11036	80.00	10.00	7.900-8.400
11037	80.00	12.00	9.400-10.000
11038	100.00	6.00	5.900-6.400
11039	100.00	10.00	9.900-10.700
11040	100.00	12.00	11.700-12.700
11041	100.00	16.00	15.800-17.400
11042	100.00	20.00	19.700-21.670
11043	120.00	10.00	11.800-12.900
11044	125.00	6.00	7.400-8.100
11045	125.00	10.00	12.300-13.500
11046	125.00	12.00	14.800-16.300
11047	150.00	6.00	8.900-9.700
11048	150.00	10.00	14.800-16.200
11049	150.00	12.00	17.700-19.500
11050	160.00	10.00	15.700-17.300
11051	200.00	6.00	11.700-12.900
11052	200.00	10.00	19.700-21.500
11053	200.00	12.00	23.700-25.900
11054	75.00	3.00	2.223-2.445
11055	60.00	2.00	1.185-1.304
11056	80.00	3.00	2.371-2.608
11057	87.00	3.00	2.579-2.836
11058	25.00	1.00	0.247-0.271
11059	19.00	1.00	0.187-0.206
11060	20.00	3.00	0.592-0.652
11061	50.00	3.00	1.480-1.630
11062	30.00	5.00	1.480-1.620
11063	40.00	2.00	0.790-0.860

UNEQUAL ANGLE



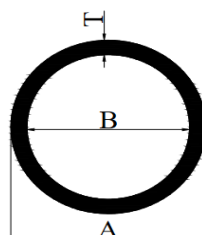
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
12000	38.10	25.40	1.90	1.100-1.210
12001	38.10	25.40	2.20	1.300-1.430
12002	38.10	25.40	2.60	1.600-1.760
12003	50.00	25.00	3.00	2.200-2.420
12004	75.00	50.00	5.00	6.100-6.700
12005	100.00	50.00	5.00	7.300-8.000

EQUAL ANGLE



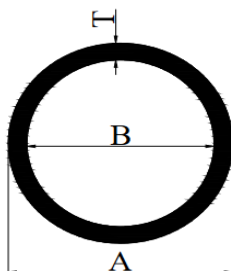
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
12500	25.00	25.00	0.80	0.300-0.350
12501	25.00	25.00	2.00	1.000-1.100
12502	25.00	25.00	3.00	1.400-1.550
12503	25.00	25.00	0.70	0.250-0.300
12504	32.00	32.00	5.00	3.100-3.400
12505	38.00	38.00	6.00	4.450-4.900
12506	38.00	38.00	4.00	2.900-3.200
12507	38.00	38.00	4.76	3.500-3.850
12508	38.00	38.00	3.00	2.000-2.200
12509	19.00	19.00	2.00	0.700-0.800
12510	50.00	50.00	4.50	4.200-4.600
12511	50.00	50.00	5.00	4.850-5.335
12512	50.00	50.00	3.00	3.000-3.300
12513	75.00	75.00	6.00	8.800-9.680
12514	50.00	50.00	3.00	2.875-3.163
12515	38.00	38.00	2.00	1.462-1.608
12516	25.00	25.00	1.00	0.484-0.532
12517	50.80	50.80	4.75	4.540-5.000
12518	40.00	40.00	2.50	1.800-1.950
12519	12.00	12.00	3.00	0.620-0.680
12520	19.00	19.00	1.60	0.570-0.630

ROUND TUBE



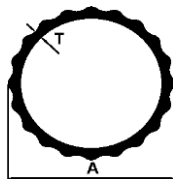
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
13000	18.00	14.00	2.00	1.000-1.100
13001	17.10	12.90	2.10	0.980-1.100
13002	18.00	16.00	1.00	0.500-0.600
13003	21.50	16.50	2.50	1.450-1.600
13004	24.00	18.50	2.75	1.800-1.980
13005	25.00	23.60	0.70	0.500-0.550
13006	25.00	23.00	1.00	0.750-0.825
13007	27.00	20.60	3.20	2.350-2.585
13008	29.30	19.80	4.75	3.620-3.982
13009	31.00	24.00	3.50	2.950-3.245
13010	32.30	22.80	4.75	4.060-4.470
13011	32.00	27.00	2.50	2.250-2.475
13012	36.00	28.00	4.00	3.950-4.345
13013	48.00	31.00	8.50	10.400-11.440
13014	54.00	34.00	10.00	13.650-15.000
13015	70.00	64.20	2.90	6.000-6.600
13016	48.00	34.00	7.00	8.910-9.380
13017	17.50	13.20	2.15	1.025-1.125
13018	48.26	40.90	3.68	5.090-5.600
13019	5.50	3.50	1.00	0.140-0.150
13020	7.40	4.40	1.50	0.275-0.300
13021	8.30	5.40	1.45	0.310-0.340
13022	10.00	7.20	1.40	0.375-0.410
13023	10.80	8.00	1.40	0.410-0.450
13024	12.70	9.50	1.60	0.550-0.600
13025	13.00	9.30	1.85	0.640-0.700
13026	16.00	11.60	2.20	0.940-1.040
13027	19.30	14.90	2.20	1.170-1.290
13028	19.60	14.80	2.40	1.280-1.410
13029	21.20	16.80	2.20	1.300-1.430
13030	23.50	18.80	2.35	1.545-1.700

ROUND TUBE



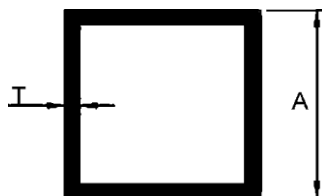
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
13031	28.00	22.00	3.00	2.330-2.560
13032	30.50	24.50	3.00	2.560-2.815
13033	41.00	30.00	5.50	6.060-6.660
13034	46.00	35.00	5.50	6.915-7.600
13035	57.00	43.50	6.75	10.530-11.580
13036	13.50	10.10	1.70	0.620-0.680
13037	14.50	10.20	2.15	0.825-0.900
13038	16.90	12.00	2.45	1.100-1.210
13039	19.00	13.70	2.65	1.350-1.485
13040	21.10	15.10	3.00	1.690-1.860
13041	23.90	16.60	3.65	2.300-2.530
13042	26.10	18.60	3.75	2.600-2.860
13043	27.20	19.30	3.95	2.850-3.130
13044	30.20	21.80	4.20	3.390-3.730
13045	35.00	27.50	3.75	3.640-4.000
13046	39.10	28.20	5.45	5.690-6.260
13047	44.40	31.70	6.35	7.500-8.250
13048	56.00	41.00	7.50	11.290-12.420
13049	20.00	15.00	2.50	1.360-1.500
13050	24.00	18.65	2.70	1.770-1.980
13051	48.74	41.30	3.81	5.200-5.700
13052	38.00	30.60	3.70	3.900-4.300
13053	30.1	25.70	2.20	1.900-2.050
13054	45.00	35.00	5.00	6.200-6.800
13055	35.70	26.20	4.75	4.550-5.000
13056	15.80	11.60	2.10	0.890-0.980

FLUTED TUBE



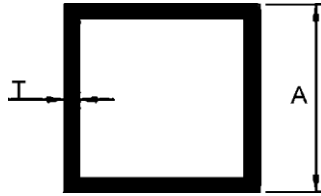
SECTION NO.	DIMENSION ARE IN MM		WEIGHT RANGE IN KG/12'
	A	T	
14000	25.00	1.55	0.750-0.950
14001	25.00	1.80	1.400-1.600
14002	25.00	3.00	1.700-1.900
14003	25.50	3.00	1.800-2.000

SQUARE TUBE



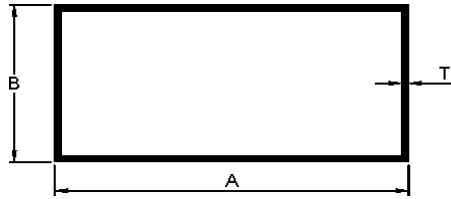
SECTION NO.	DIMENSION ARE IN MM		WEIGHT RANGE IN KG/12'
	A	T	
15000	12.00	1.00	0.400-0.500
15001	19.50	1.00	0.650-0.720
15002	19.00	1.20	0.900-1.000
15003	19.00	1.50	1.100-1.210
15004	19.00	3.00	2.250-2.500
15005	25.40	0.70	0.700-0.800
15006	25.40	2.00	1.700-1.900
15007	38.00	0.70	1.100-1.210
15008	38.00	1.00	1.400-1.500
15009	38.00	1.50	2.200-2.400
15010	38.00	2.00	2.800-3.000
15011	50.00	1.00	1.900-2.100
15012	50.00	1.45	2.800-3.100
15013	100.00	3.00	11.800-13.000
15014	100.00	8.00	31.000-34.000
15015	50.00	3.00	5.573-6.130
15016	50.00	2.00	3.790-4.170
15017	25.40	1.50	1.410-1.550
15018	50.00	1.25	2.400-2.600
15019	75.00	3.00	8.500-9.300
15020	60.00	4.00	8.800-9.700

SQUARE TUBE



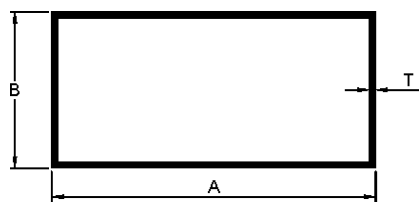
SECTION NO.	DIMENSION ARE IN MM		WEIGHT RANGE IN KG/12'
	A	T	
15021	72.00	3.20	8.700-9.500
15022	38.00	3.00	4.150-4.560
15023	25.00	3.00	2.600-2.860
15024	50.00	3.00	5.570-6.130
15025	50.00	1.60	3.050-3.350

RECTANGULAR TUBE



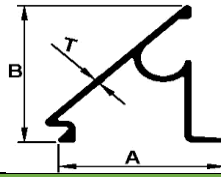
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
15500	40.00	20.00	1.20	1.400-1.550
15501	38.00	25.40	0.75	0.650-0.750
15502	38.00	25.00	1.00	0.900-1.000
15503	38.00	25.00	2.00	2.200-2.400
15504	38.00	25.00	1.50	1.750-1.950
15505	50.00	25.00	0.75	1.100-1.210
15506	50.00	25.00	0.95	1.300-1.450
15507	50.00	25.00	1.10	1.500-1.650
15508	50.00	25.00	1.25	1.800-2.000
15509	50.00	25.00	1.50	2.200-2.420
15510	50.00	25.00	2.00	2.900-3.200
15511	63.00	38.00	0.70	1.500-1.700
15512	63.00	38.00	1.50	2.800-3.100
15513	63.00	38.00	2.00	3.600-4.000
15514	63.00	45.00	3.00	6.300-6.900
15515	75.00	25.00	2.00	4.000-4.450
15516	83.00	38.00	1.50	3.500-3.700
15517	100.00	44.00	2.00	5.600-6.160
15518	101.00	25.00	2.00	5.500-6.100
15519	101.00	44.45	3.00	8.500-9.300
15520	100.00	50.00	3.00	8.800-9.000
15521	120.00	60.00	3.00	10.500-11.500
15522	125.00	25.00	2.00	5.850-6.435
15523	150.00	50.00	2.00	7.850-8.635
15524	38.00	50.00	3.00	5.200-5.700
15525	75.00	25.00	1.50	2.875-3.163
15526	75.00	35.00	2.50	5.180-5.700
15527	80.00	50.00	2.00	4.980-5.480
15528	38.00	25.00	1.25	1.450-1.600
15529	63.00	38.00	1.25	2.400-2.620
15530	50	38	2.00	3.300-3.600

RECTANGULAR TUBE



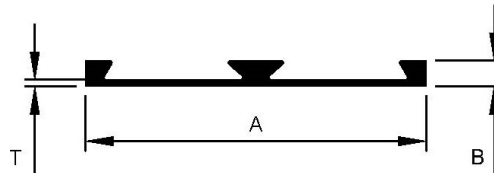
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
15531	150	38	2.00	7.270-8.000
15532	50	25	3.00	4.100-4.500
15533	101.00	44.00	1.50	4.200-4.600
15534	83.00	38.00	1.20	2.800-3.050
15535	100.00	50.00	1.50	4.350-4.790
15536	48.00	24.00	1.20	1.600-1.800
15537	48.00	24.00	0.80	1.110-1.220
15538	75.00	25.00	1.30	2.500-2.750
15539	100.00	50.00	2.00	5.760-6.340
15540	50.00	25.00	1.20	1.720-1.890
15541	101.50	25.50	0.85	2.100-2.300

GLAZING CLIP



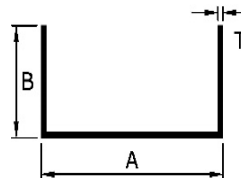
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
16000	19.05	17.32	0.52	0.200-0.280
16001	19.05	17.32	0.74	0.280-0.350
16002	19.05	17.32	1.00	0.350-0.450

GLAZING PLATE



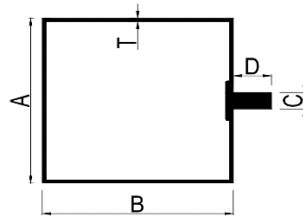
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
16100	44.00	3.40	0.80	0.550-0.700
16101	44.00	3.40	1.00	0.700-0.800

U -CHANNEL



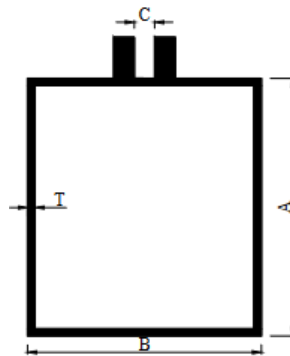
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
16200	9.00	9.00	0.60	0.150-0.200
16201	12.00	12.00	0.70	0.250-0.300
16202	15.00	15.00	1.30	0.550-0.610
16203	25.00	12.00	0.70	0.330-0.430
16204	25.00	25.00	3.00	2.050-2.300
16205	30.00	25.00	3.80	2.480-2.700
16206	30.00	20.00	2.00	1.400-1.540
16207	50.00	40.00	2.50	3.100-3.400
16208	19.00	11.00	0.85	0.330-0.360
16209	50.00	25.00	2.50	2.900-3.200
16210	114.20	50.00	3.60	7.350-8.050
16211	60.00	50.00	6.00	9.300-10.300
16212	60.00	60.00	6.00	9.900-10.900

CURTAIN WALL



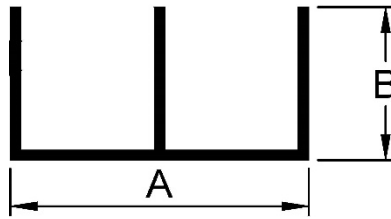
SECTION NO.	DIMENSION ARE IN MM					WEIGHT RANGE IN KG/12'
	A	B	C	D	T	
16150	50.00	50.00	5.00	10.00	1.00	2.900-3.200
16151	45.00	45.00	2.00	10.00	1.40	2.600-2.900
16152	45.00	45.00	2.00	10.00	1.80	3.200-3.600
16153	57.00	63.00	5.00	10.00	1.40	3.700-4.100
16154	57.00	63.00	5.00	10.00	1.80	4.600-5.100

CURTAIN WALL



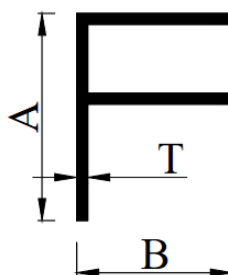
SECTION NO.	DIMENSION ARE IN MM				WEIGHT RANGE IN KG/12'
	A	B	C	T	
16300	63.00	57.00	5.00	1.80	5.128-5.641
16301	45.00	45.00	5.00	1.80	4.061-4.468

DOUBLE GLASS CHANNEL



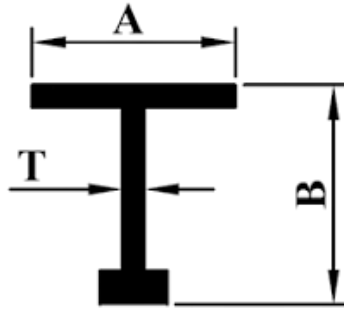
	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
16400	18.00	11.00	0.55	0.280-0.340
16401	18.00	11.00	0.70	0.340-0.400
16402	18.00	11.00	0.85	0.400-0.460
16403	22.00	11.00	0.55	0.250-0.310
16404	22.00	11.00	0.60	0.315-0.346
16405	22.00	11.00	0.75	0.350-0.410
16406	22.00	11.00	0.90	0.440-0.500
16407	25.40	11.00	0.65	0.300-0.450
16408	25.40	11.00	0.80	0.450-0.600
16409	25.00	11.00	1.10	0.594-0.654
16410	22.00	11.00	0.40	0.212-0.333
16411	38.00	11.00	0.80	0.542-0.596
16412	30.00	11.00	0.70	0.420-0.460

F CHANNEL



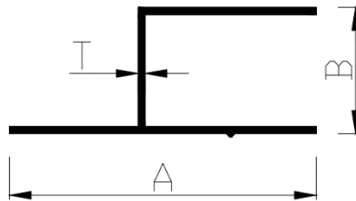
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
16450	20.80	15.60	0.7	0.350-0.385
16451	20.80	15.60	1.1	0.541-0.595

T-BULB



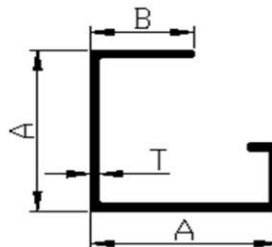
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
16500	25.40	25.40	0.60	0.300-0.400
16501	25.40	25.40	0.90	0.450-0.600
16502	38.00	38.00	1.70	1.274-1.402

Y-CHANNEL



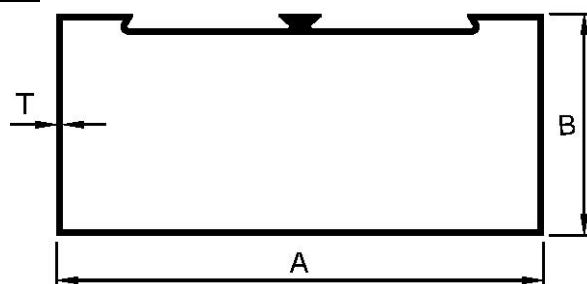
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
16530	31.00	12.00	0.70	0.413-0.455
16531	31.00	12.00	1.00	0.607-0.668

G – CHANNEL



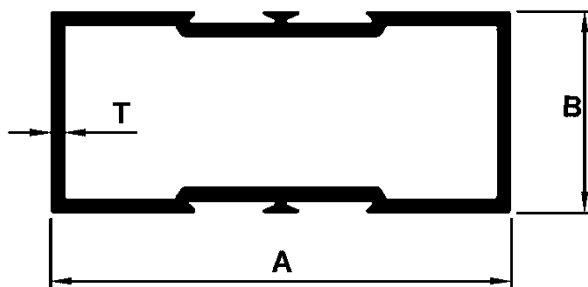
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
16600	40.00	39.00	1.70	2.000-2.200
16601	40.00	39.00	1.40	1.650-1.810

SINGLE PARTITION



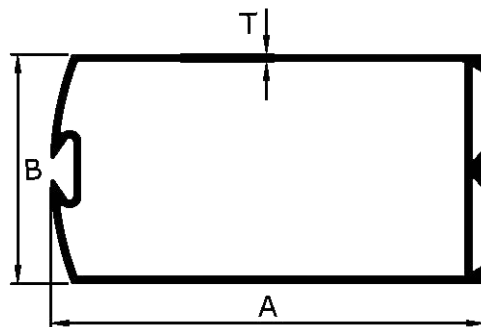
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
17000	50.00	25.00	0.75	1.300-1.450
17001	50.00	25.00	1.10	1.600-1.800
17002	50.00	25.00	1.30	2.000-2.200
17003	63.50	38.10	0.80	1.800-2.000
17004	63.50	38.10	0.95	2.000-2.200
17005	63.50	38.10	1.10	2.300-2.530
17006	63.50	38.10	1.30	2.700-3.000
17007	63.50	38.10	1.50	3.000-3.300
17008	63.50	38.10	1.65	3.400-3.700
17009	63.50	38.10	2.00	4.100-4.500
17010	63.50	38.10	2.40	5.100-5.600
17011	63.50	38.10	3.20	6.500-7.150
17012	101.60	44.45	1.25	3.800-4.200
17013	101.60	44.45	1.40	4.100-4.510
17014	101.60	44.45	1.60	4.800-5.200
17015	101.60	44.45	1.80	5.300-5.800
17016	101.60	44.45	3.00	8.700-9.570
17017	83.00	38.50	3.30	7.787-8.561
17018	101.60	44.45	2.00	5.890-6.480
17019	50.00	25.00	1.50	2.390-2.630

DOUBLE PARTITION



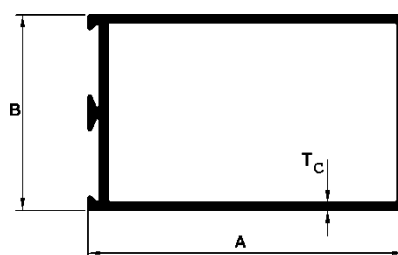
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
17500	50.80	25.40	0.75	1.300-1.450
17501	50.80	25.40	1.10	1.600-1.750
17502	63.50	38.10	0.80	1.800-2.000
17503	63.50	38.10	0.95	2.100-2.300
17504	63.50	38.10	1.10	2.400-2.650
17505	63.50	38.10	1.30	2.700-3.000
17506	63.50	38.10	1.65	3.400-3.700
17507	101.60	44.45	1.25	3.800-4.180
17508	101.60	44.45	1.60	4.800-5.280
17509	101.60	44.45	1.80	5.300-5.800
17510	101.60	44.45	3.00	9.000-9.900

DOOR VERTICAL GROOVED



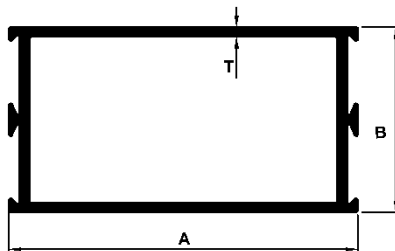
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
18000	47.60	44.45	1.00	2.000-2.300
18001	47.60	44.45	1.20	2.300-2.500
18002	47.60	44.55	1.35	2.700-3.000
18003	47.60	44.55	1.70	3.300-3.700
18004	47.60	44.55	2.60	4.800-5.300
18005	83.50	44.45	1.70	4.400-4.800
18006	83.50	44.45	3.00	7.000-7.500
18007	47.60	44.45	2.50	4.660-5.126
18008	47.60	44.45	3.00	5.414-5.956
18009	83.50	44.45	2.00	5.250-5.800

DOOR MIDDLE SINGLE PARTITION



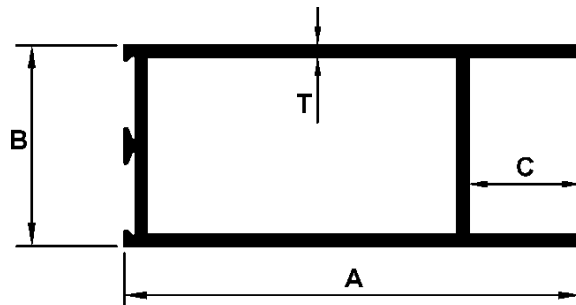
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
18200	47.60	44.45	1.10	2.200-2.400
18201	47.60	44.45	1.45	2.700-2.900

DOOR MIDDLE DOUBLE PARTITION



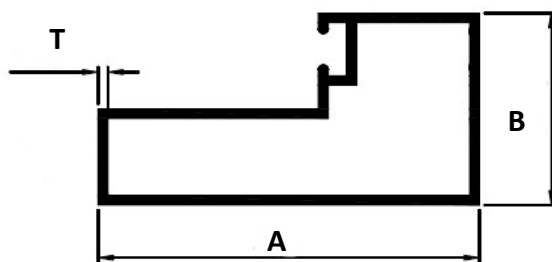
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
18300	47.60	44.45	1.10	2.200-2.400
18301	47.60	44.45	1.45	2.700-2.900
18302	83.50	44.45	1.60	4.100-4.500
18303	83.50	44.45	2.00	5.000-5.500
18304	100.00	44.45	1.70	4.500-5.000
18305	47.00	44.45	3.00	5.500-6.051
18306	100.00	44.45	2.00	5.850-6.470

DOOR TOP & BOTTOM



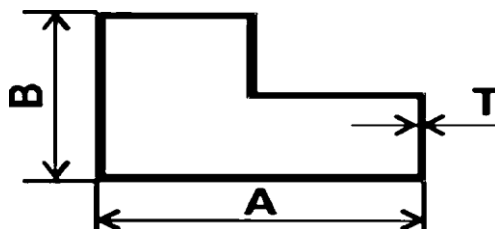
SECTION NO.	DIMENSION ARE IN MM				WEIGHT RANGE IN KG/12'
	A	B	C	T	
18400	47.60	44.00	10.00	1.00	2.000-2.200
18401	47.60	44.00	10.00	1.45	2.700-3.000
18402	47.60	44.00	10.00	1.75	4.400-4.700
18403	83.10	44.00	10.00	1.75	4.400-4.700
18404	95.00	25.00	25.00	1.75	4.800-5.300
18405	101.00	44.45	25.00	1.60	4.000-4.500
18406	101.00	44.45	25.00	1.70	4.500-5.200
18407	101.00	44.45	25.00	2.50	7.100-7.600
18408	47.60	44.45	10.00	2.10	3.814-4.196
18409	47.60	44.45	10.00	3.00	5.221-5.743
18410	101.00	44.45	25.00	2.00	5.750-6.325

L PIPE/DOOR FRAME



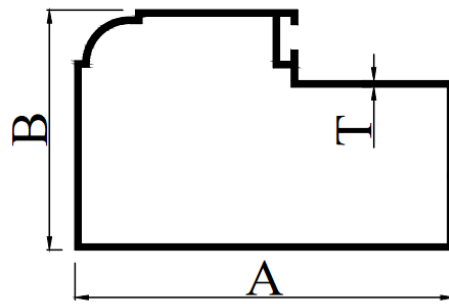
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
18500	63.00	38.00	1.59	4.000-4.500

L PIPE



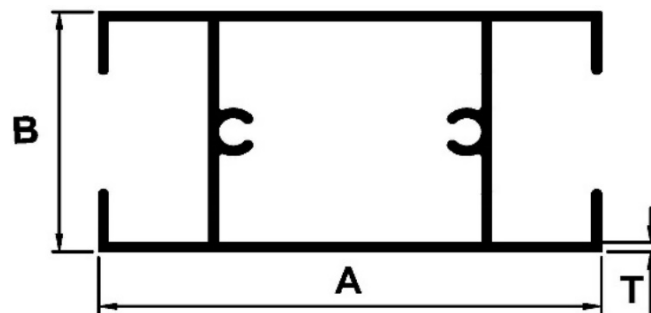
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
18600	50.40	32.40	1.00	1.300-1.600
18601	50.40	32.40	1.20	1.700-2.000

MOULDING CHAUKHAT



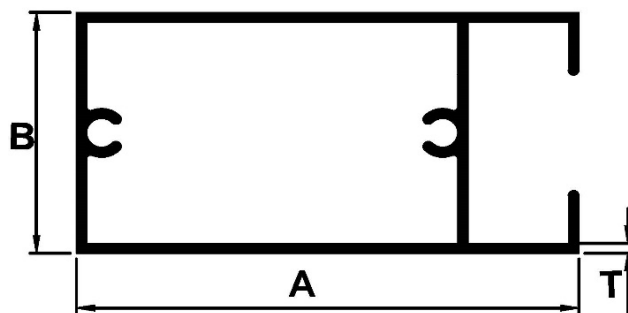
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
18700	63.00	40.00	1.00	2.030-2.300

SHUTTER SECTION BOTH SIDE OPEN



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
18800	75.00	25.40	1.00	2.600-2.800
18801	80.00	18.00	1.00	1.870-2.000

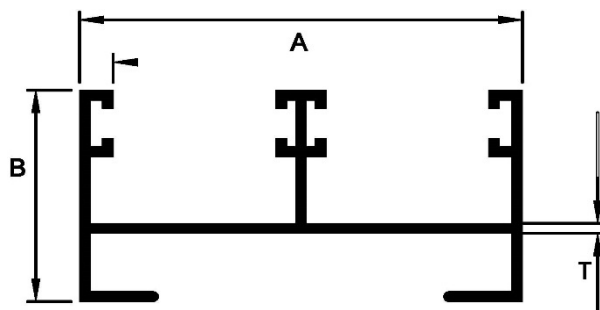
SLIDING WINDOW ONE SIDE OPEN



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
18850	50.00	25.00	1.02	1.700-2.000

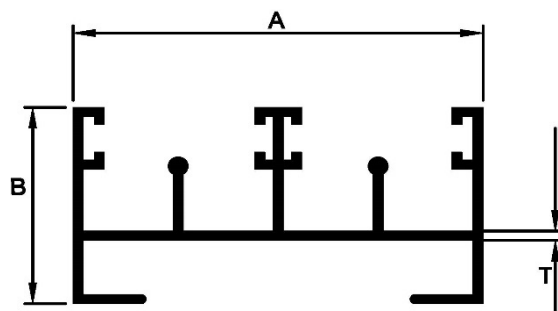
18mm SERIES

TWO TRACK TOP & SIDE



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19000	62.00	32.00	0.80	1.300-1.500

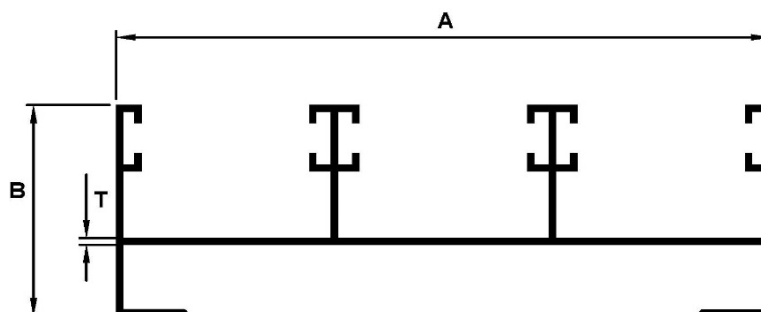
TWO TRACK BOTTOM



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19050	62.00	32.00	0.80	1.500-1.700

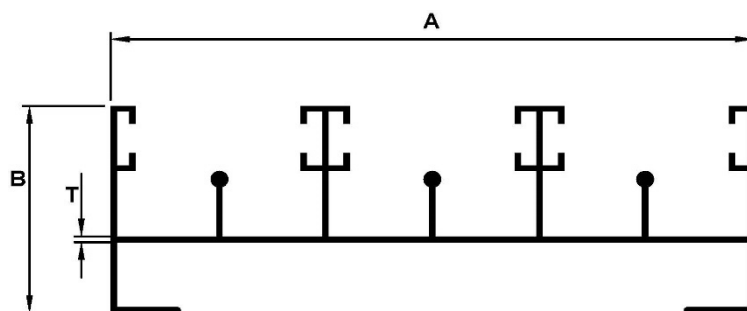
18mm SERIES

THREE TRACK TOP & SIDE



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19100	92.00	32.00	0.80	2.000-2.200

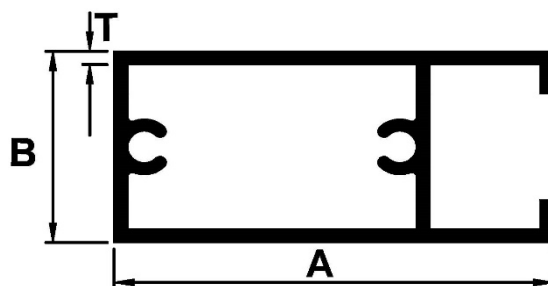
THREE TRACK BOTTOM



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19150	92.00	32.00	0.80	2.500-2.700

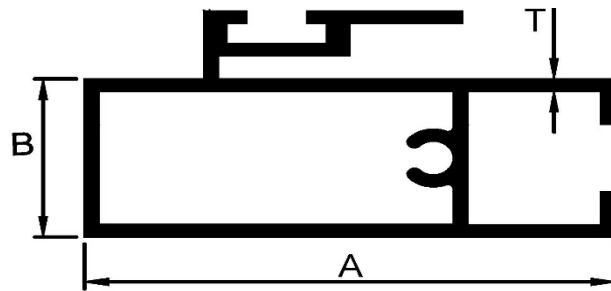
18mm SERIES

SLIDING WINDOW ONE SIDE OPEN



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19200	40.00	18.00	0.70	0.900-1.100
19201	40.00	18.00	1.45	1.800-2.000
19202	40.00	18.00	1.25	1.650-1.850

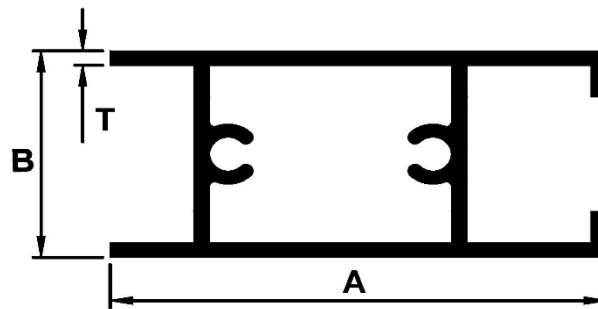
INTERLOCK



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19250	40.00	18.00	0.70	1.100-1.300
19251	40.00	18.00	1.25	1.850-2.035
19252	40.00	18.00	0.85	1.350-1.500

18mm SERIES

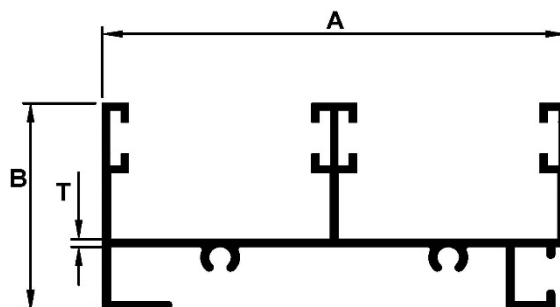
SHUTTER BOTH SIDE OPEN



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19300	40.00	18.00	0.70	0.900-1.100
19301	40.00	18.00	1.40	1.818-2.000

20mm SERIES

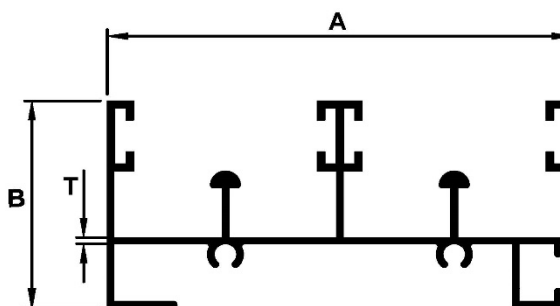
TWO TRACK TOP & SIDE



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19350	62.00	29.50	0.60	1.400-1.600
19351	62.00	29.50	0.70	1.600-1.760
19352	62.00	29.50	0.95	1.800-2.000
19353	62.00	29.50	1.10	2.100-2.300
19354	62.00	29.50	1.30	2.400-2.640
19355	62.00	29.50	1.50	2.900-3.200
19356	62.00	29.50	2.00	3.500-3.850

20mm SERIES

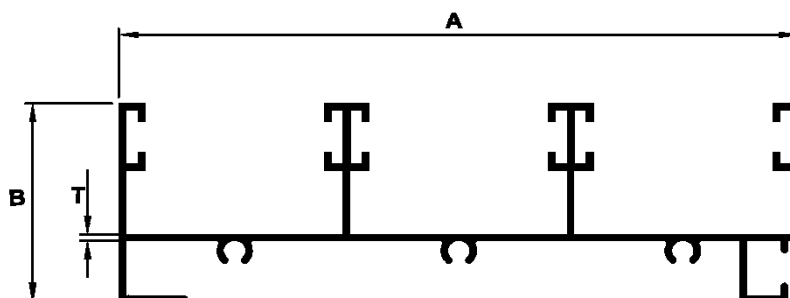
TWO TRACK BOTTOM



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19400	62.00	29.50	0.70	1.600-1.800
19401	62.00	29.50	0.95	1.900-2.100
19402	62.00	29.50	1.10	2.250-2.475
19403	62.00	29.50	1.30	2.700-3.000
19404	62.00	29.50	1.50	3.100-3.400
19405	62.00	29.50	1.75	3.300-3.630

20mm SERIES

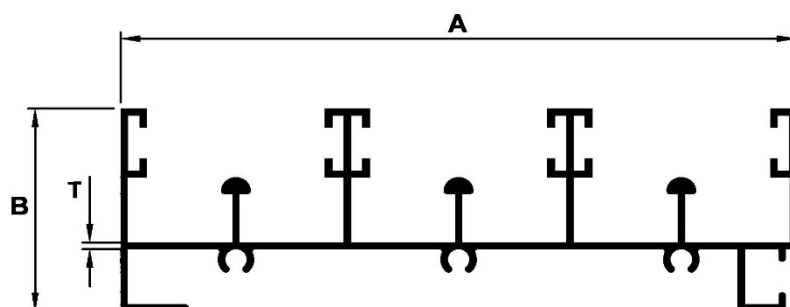
THREE TRACK TOP & SIDE



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19450	92.00	30.00	0.70	2.100-2.300
19451	92.00	30.00	0.85	2.500-2.750
19452	92.00	30.00	1.10	2.800-3.100
19453	92.00	30.00	1.30	3.100-3.400
19454	92.00	30.00	1.50	3.500-3.850
19455	92.00	30.00	1.65	3.900-4.300

20mm SERIES

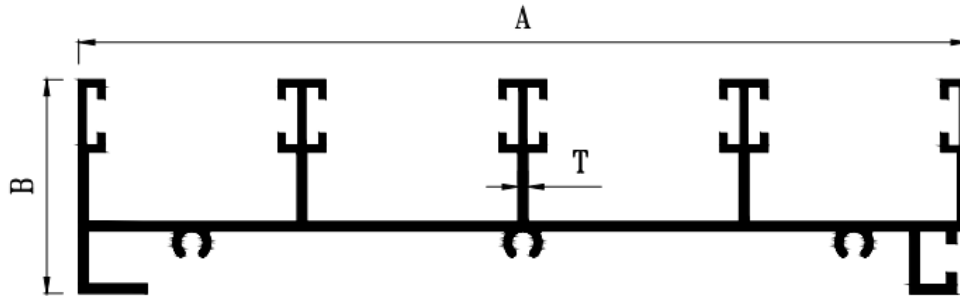
THREE TRACK BOTTOM



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19480	92.00	30.00	0.75	2.300-2.500
19481	92.00	30.00	0.85	2.700-3.000
19482	92.00	30.00	0.90	3.000-3.300
19483	92.00	30.00	1.10	3.300-3.600
19484	92.00	30.00	1.30	3.600-3.900
19485	92.00	30.00	1.55	4.300-4.700
19486	92.00	30.00	2.00	4.800-5.200

20mm SERIES

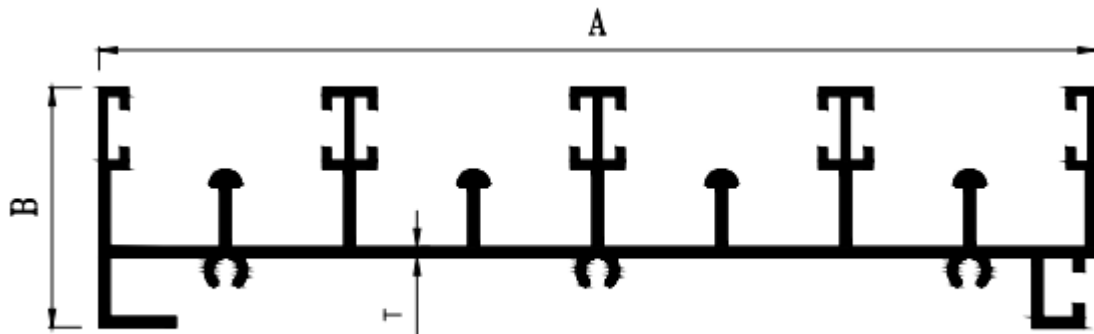
FOUR TRACK TOP & SIDE



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19510	123	30	1.30	4.200-4.400

20mm SERIES

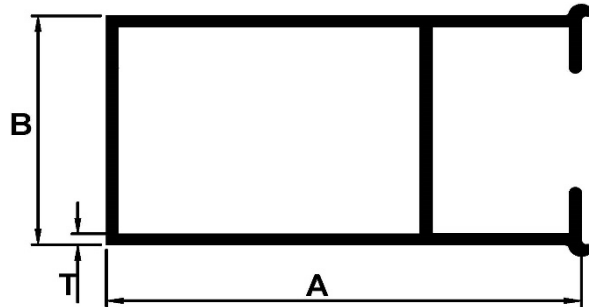
FOUR TRACK BOTTOM



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19540	123.00	30.00	1.30	4.400-4.600

20mm SERIES

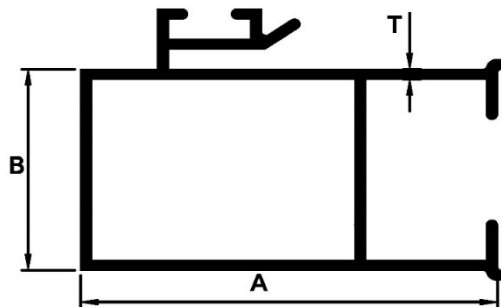
SLIDING WINDOW ONE SIDE OPEN



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19570	38.00	20.00	0.85	1.000-1.150
19571	38.00	20.00	1.10	1.200-1.350
19572	38.00	20.00	1.30	1.500-1.650
19573	38.00	20.00	1.50	1.700-1.900
19574	38.00	20.00	1.65	2.000-2.200
19575	38.00	20.00	2.00	2.300-2.530

20mm SERIES

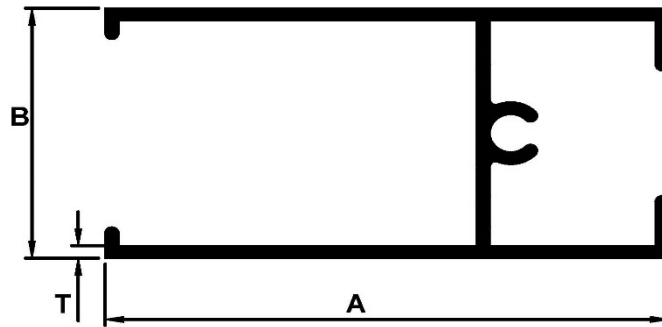
INTERLOCK



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19600	38.00	20.00	0.80	1.100-1.300
19601	38.00	20.00	1.00	1.300-1.500
19602	38.00	20.00	1.15	1.500-1.700
19603	38.00	20.00	1.30	1.700-2.000
19604	38.00	20.00	1.45	2.000-2.200
19605	38.00	20.00	2.00	2.700-2.970

20mm SERIES

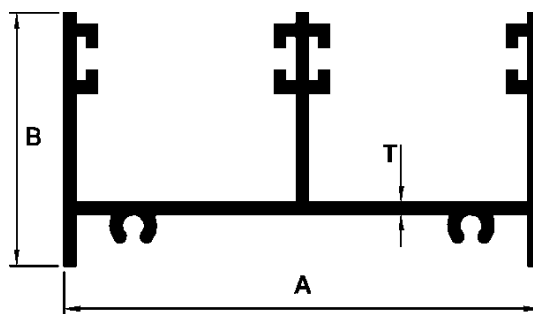
SHUTTER SECTION BOTH SIDE OPEN



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19630	41.00	20.00	0.85	1.000-1.200
19631	41.00	20.00	1.00	1.200-1.400
19632	41.00	20.00	1.20	1.400-1.700
19633	41.00	20.00	1.50	1.800-2.100
19634	41.00	20.00	1.65	2.000-2.200
19635	60.00	29.20	1.50	2.880-3.170
19636	41.00	20.00	2.00	2.180-2.390

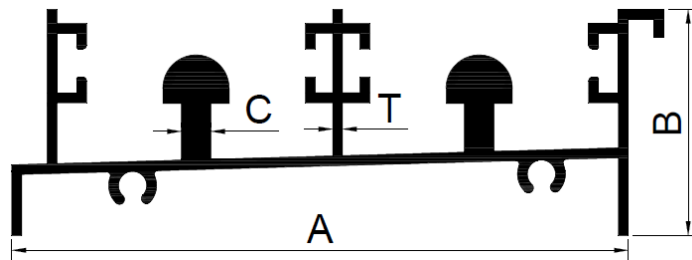
25mm SERIES

TWO TRACK TOP & SIDE



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19660	82.80	44.00	1.20	3.200-3.400
19661	82.80	44.00	1.40	4.650-5.130

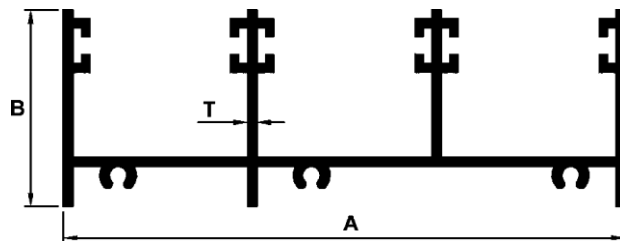
TWO TRACK BOOTM



SECTION NO.	DIMENSION ARE IN MM				WEIGHT RANGE IN KG/12'
	A	B	C	T	
19690	93.00	32.00	2.00	1.40	4.800-5.280
19691	93.00	32.00	4.20	1.40	5.110-5.620

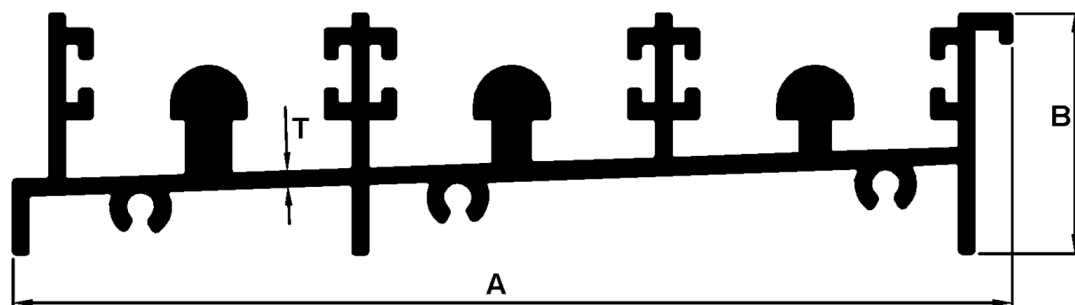
25mm SERIES

THREE TRACK TOP & SIDE



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19720	123.00	44.00	1.20	4.600-5.000

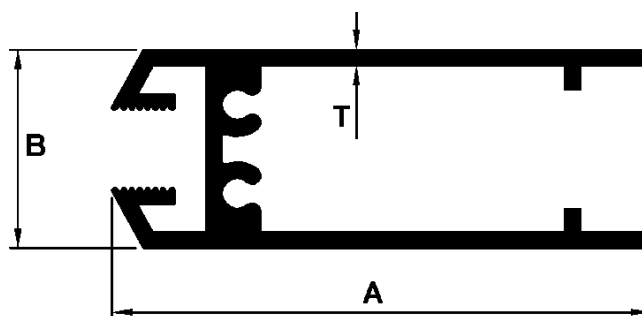
THREE TRACK BOTTOM



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19750	133.00	32.00	1.40	5.600-6.200

25mm SERIES

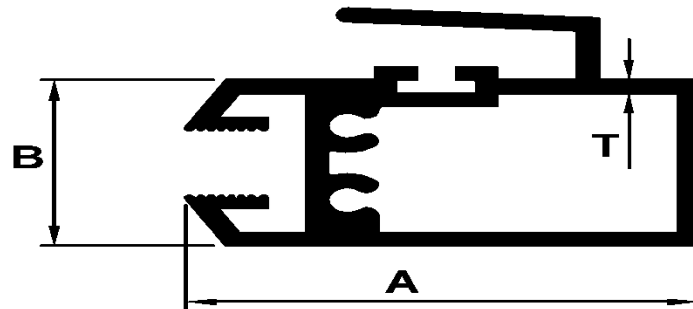
SHUTTER SECTION BOTH SIDE OPEN



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19780	69.00	25.00	1.20	2.700-2.900

25mm SERIES

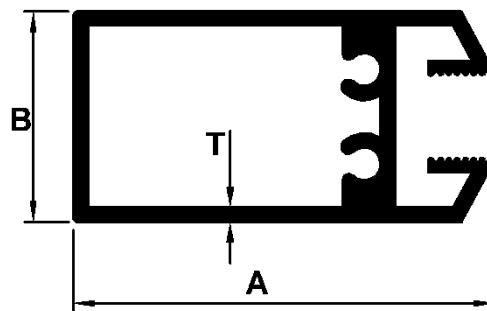
INTERLOCK



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19810	50.00	25.00	1.20	2.900-3.000
19811	50.80	25.40	1.50	3.390-3.730

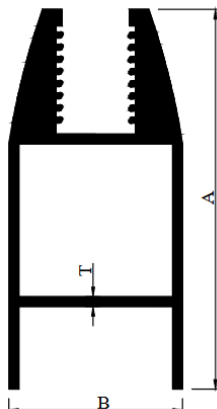
25mm SERIES

A SECTION ONE SIDE OPEN



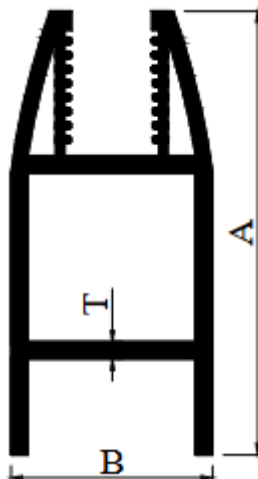
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19840	50.00	25.00	1.20	2.900-3.000
19841	50.00	25.00	2.00	3.380-3.720

TWINSTYLE SOLID DOOR SECTION



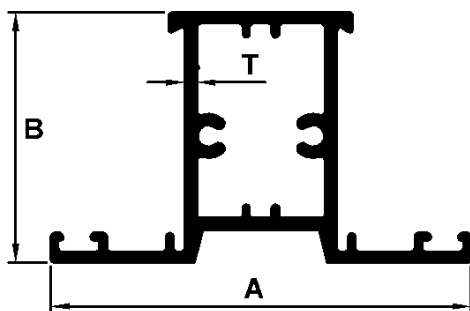
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19845	87.50	40.00	2.30	8.750-9.625

TWINSTYLE HOLLOW DOOR SECTION



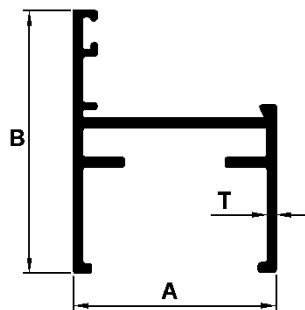
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19850	88.00	40.00	3.40	9.088-9.997
19851	88.00	40.00	2.10	6.140-6.760

OUTER MULLION



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19870	57.00	34.00	1.50	3.000-3.300

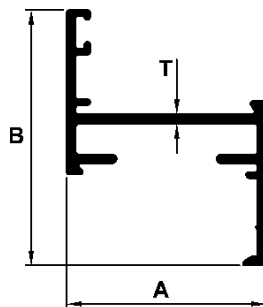
OUTER 34'



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19890	34.35	44.45	1.20	1.300-1.600
19891	34.35	44.45	1.45	1.700-2.000

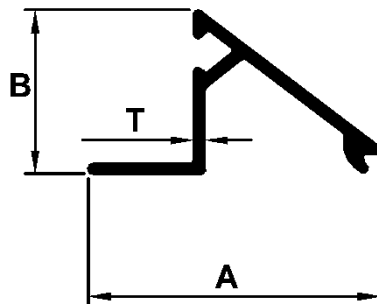
34mm SERIES

MULLION Z



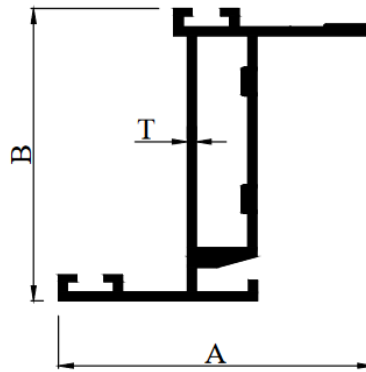
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19900	34.00	43.50	1.70	1.700-1.900
19901	34.00	43.50	1.45	1.450-1.640

MULLION CLIP



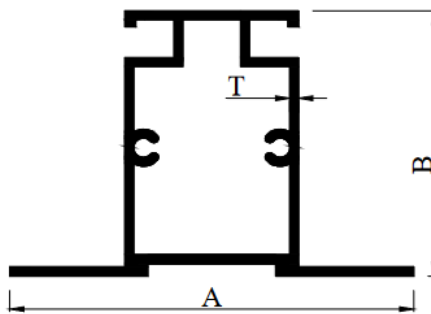
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19910	30.42	17.54	1.30	0.500-0.700

SOUTER FRAME

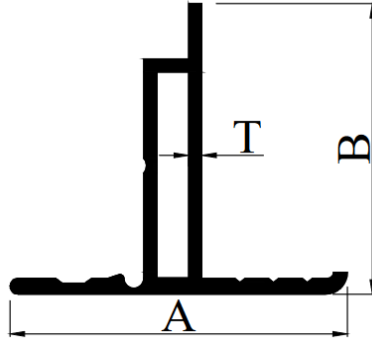


SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19925	46.10	42.80	1.30	2.164-2.380

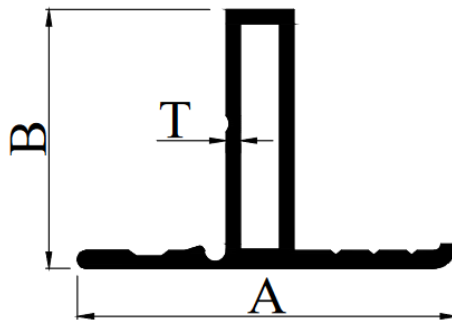
MULLION/TRANSOM



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19930	63.20	41.50	1.40	2.940-3.234



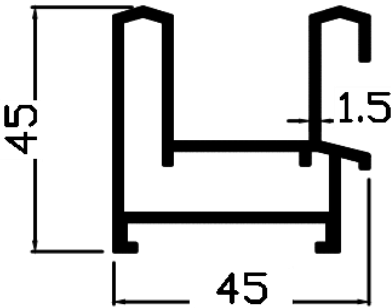
SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19935	51.00	44.00	2.00	2.700-2.970



SECTION NO.	DIMENSION ARE IN MM			WEIGHT RANGE IN KG/12'
	A	B	T	
19940	51.00	34.80	1.90	2.450-2.700

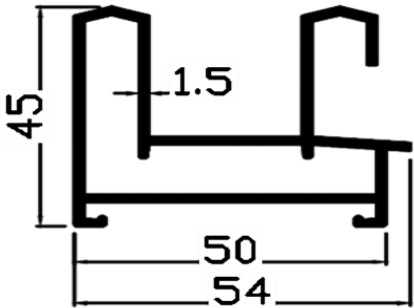
27 MM EURO SLIDING SERIES

SEC NO 20100



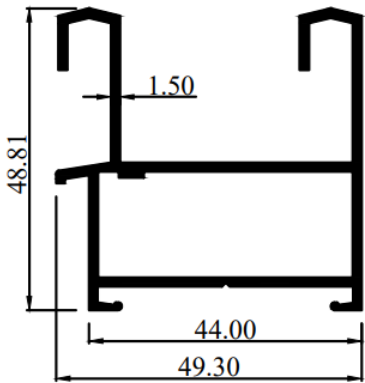
Wt- 3.260 Kg/12'

SEC NO 20101



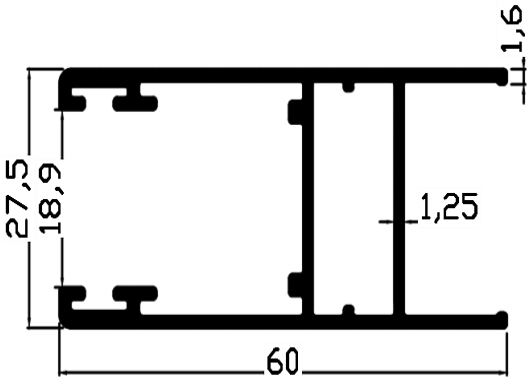
Wt- 3.550 Kg/12'

SEC NO 20102



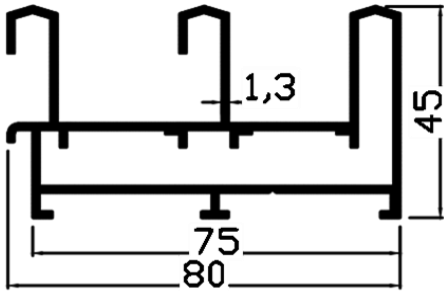
Wt- 3.250 Kg/12'

SEC NO 20103



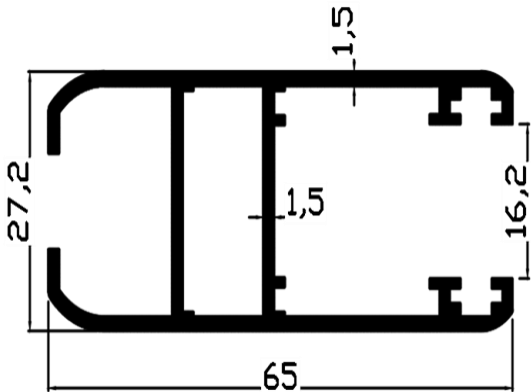
Wt- 2.600 Kg/12'

SEC NO 20104



Wt- 4.550 Kg/12'

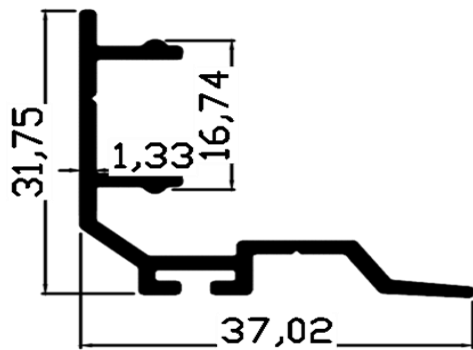
SEC NO 20105



Wt- 3.150 Kg/12'

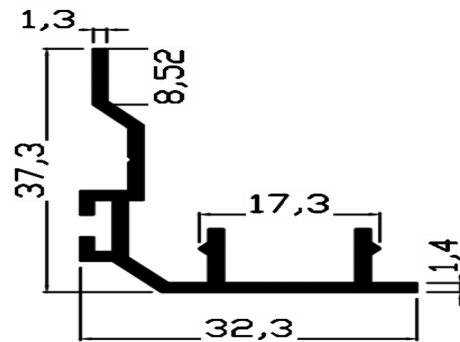
27 MM EURO SLIDING SERIES

SEC NO 20106



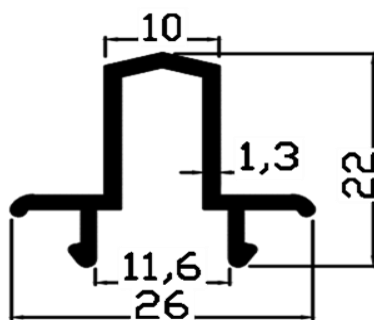
Wt- 1.200 Kg/12'

SEC NO 20107



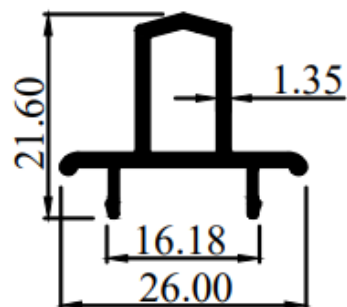
Wt-1.250 Kg/12'

SEC NO 20108



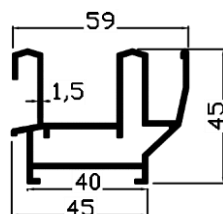
Wt- 0.820 Kg/12'

SEC NO 20109



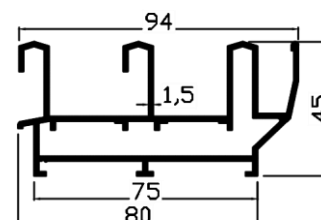
Wt- 0.900 Kg/12'

SEC NO 20110



Wt- 3.800 Kg/12'

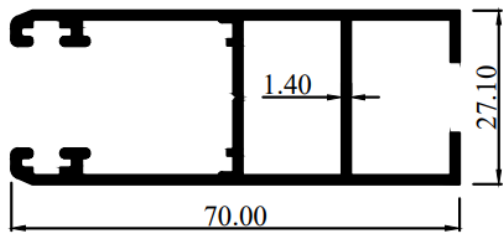
SEC NO 20111



Wt- 5.700 Kg/12'

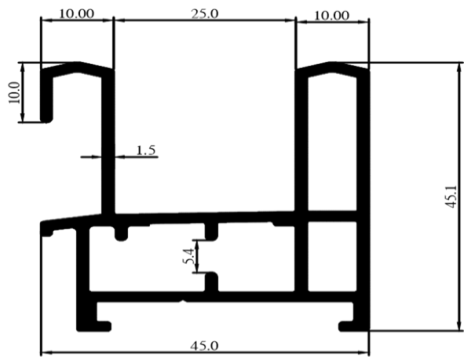
27 MM EURO SLIDING SERIES

SEC NO 20112



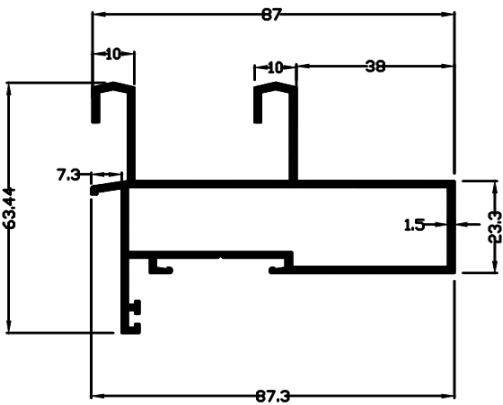
Wt- 3.200 Kg/12'

SEC NO 20113



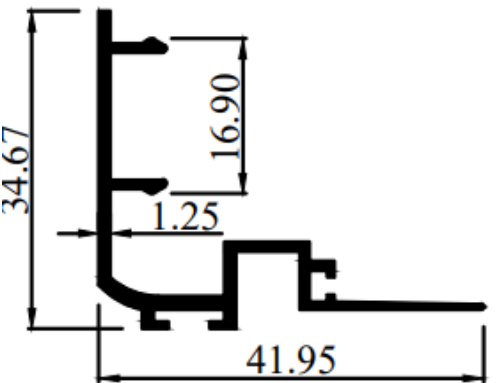
Wt- 3.640Kg/12'

SEC NO 20114



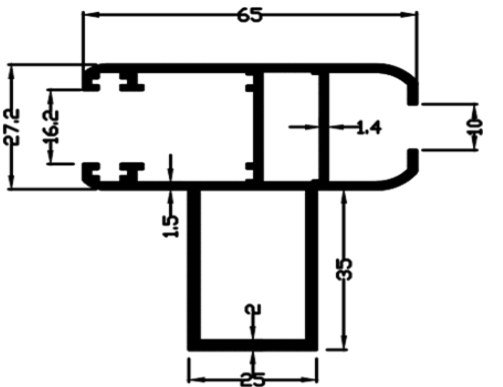
Wt- 4.700 Kg/12'

SEC NO 20115



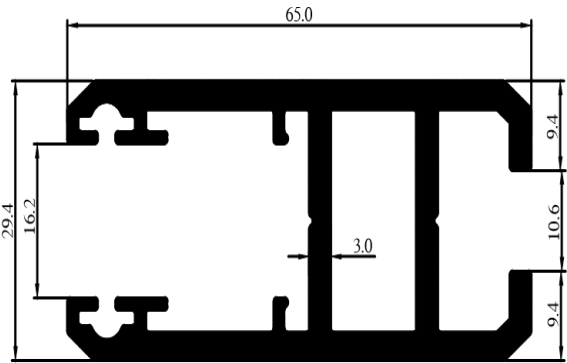
Wt- 1.200 Kg/12'

SEC NO 20116



Wt- 4.900 Kg/12'

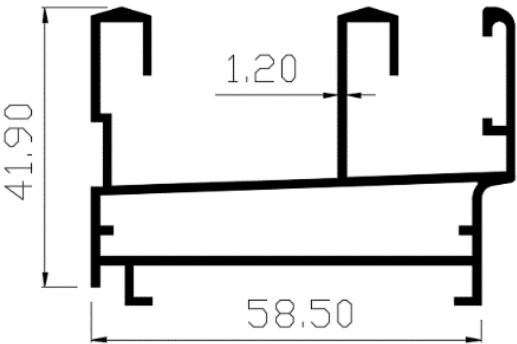
SEC NO 20117



Wt- 5.980 Kg/12'

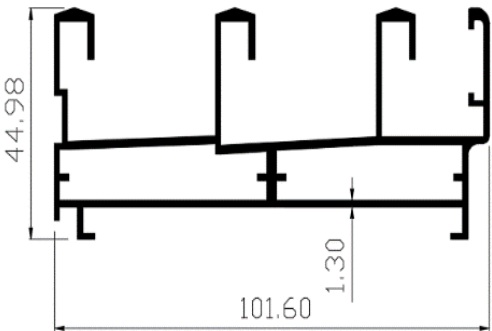
27 MM EURO SLIDING SERIES

SEC NO 20118



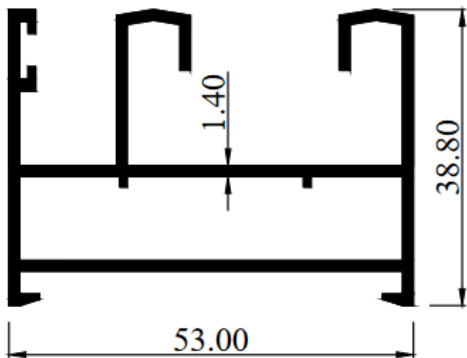
Wt- 3.450 Kg/12'

SEC NO 20119



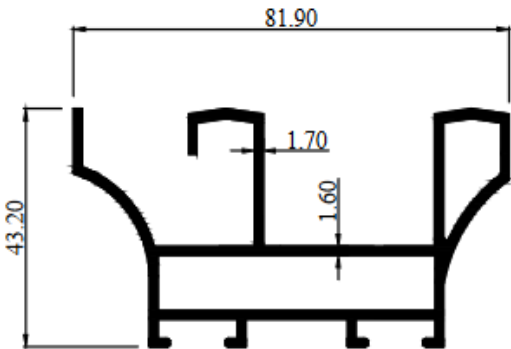
Wt- 5.600 Kg/12'

SEC NO 20120



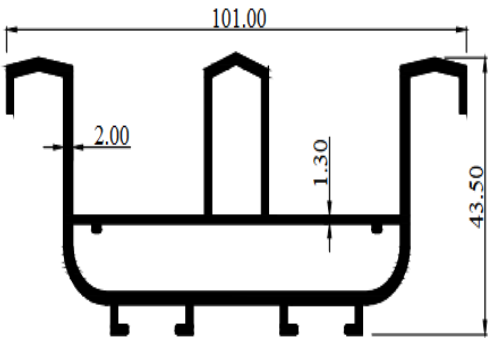
Wt-3.300 Kg/12'

SEC NO 20121



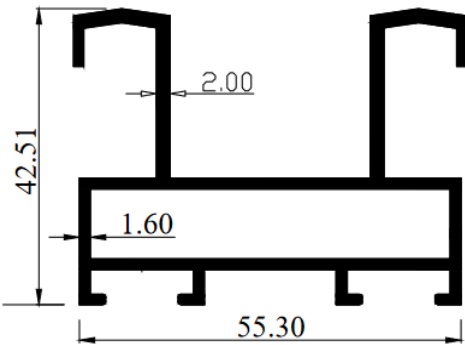
Wt-4.850 Kg/12'

SEC NO 20122



Wt-5.700 Kg/12'

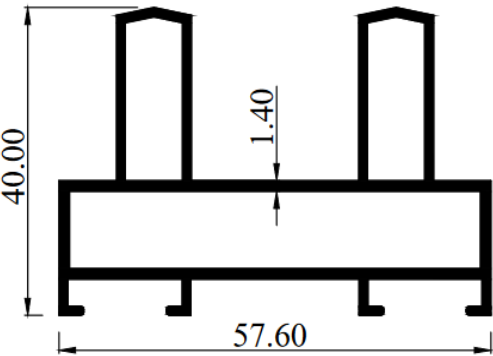
SEC NO 20123



Wt-4.000 Kg/12'

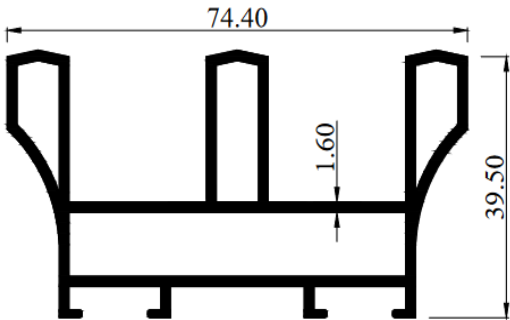
27 MM EURO SLIDING SERIES

SEC NO 20124



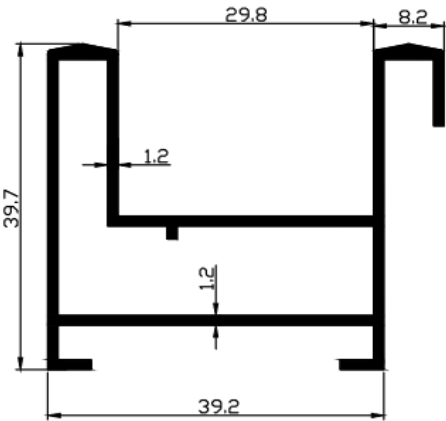
Wt-3.350 Kg/12'

SEC NO 20125



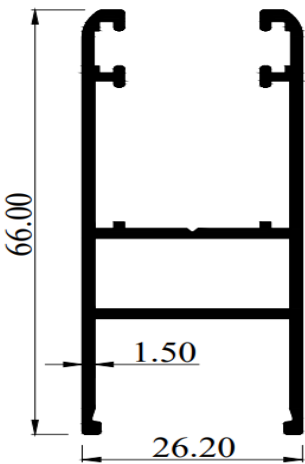
Wt-5.000 Kg/12'

SEC NO 20126



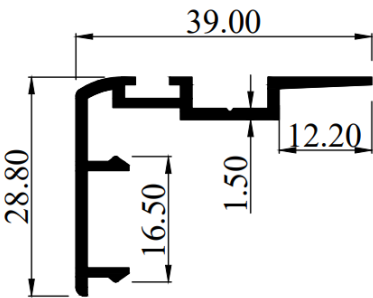
Wt-2.350 Kg/12'

SEC NO 20127



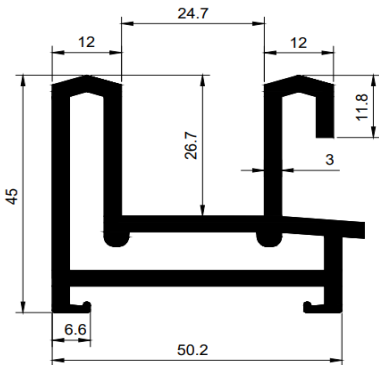
Wt-2.900Kg/12'

SEC NO 20128



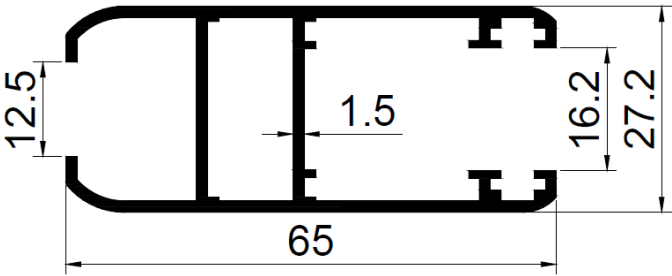
Wt-1.230 Kg/12'

SEC NO 20129



Wt-6.850 Kg/12'

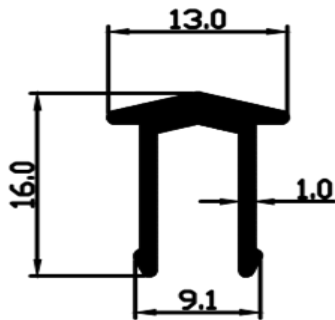
SEC NO 20130



Wt-3.120 Kg/12'

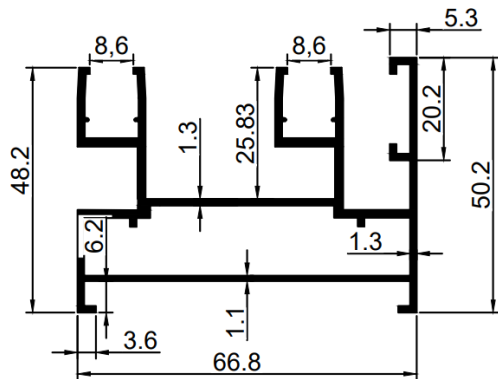
29 MM EURO SLIDING SERIES

SEC NO 20200



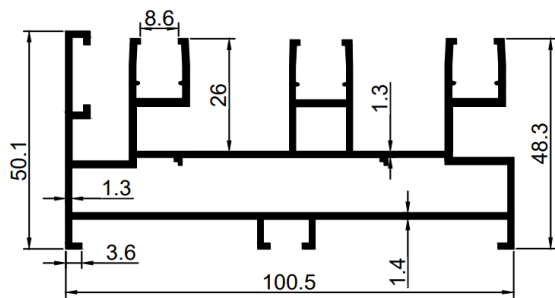
Wt- 0.510 Kg/12'

SEC NO 20201



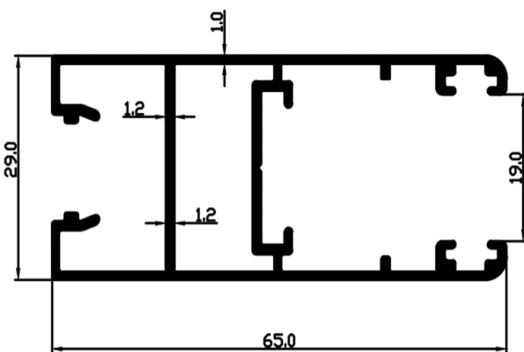
Wt- 4.400Kg/12'

SEC NO 20202



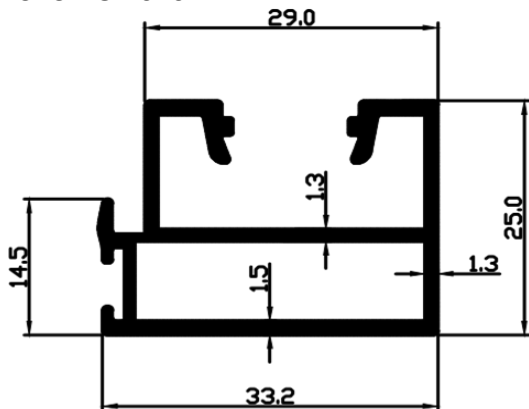
Wt-6.500 Kg/12'

SEC NO 20203



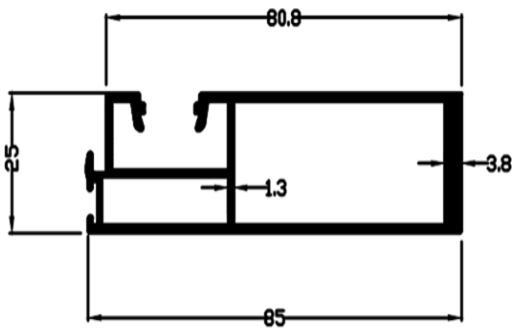
Wt- 2.700 Kg/12'

SEC NO 20204



Wt- 1.900 Kg/12'

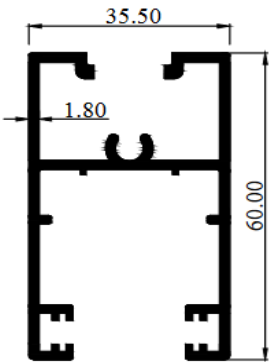
SEC NO 20205



Wt- 4.250 Kg/12'

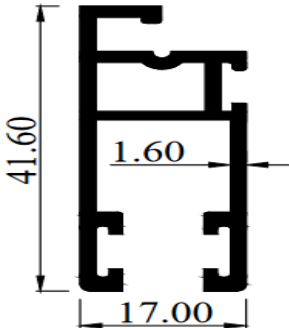
29 MM EURO SLIDING SERIES

SEC NO 20206



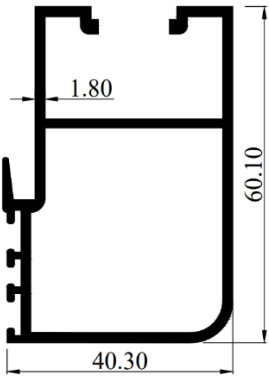
Wt-3.940 Kg/12'

SEC NO 20207



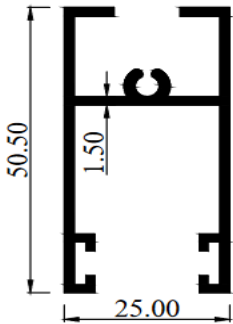
Wt-2.000 Kg/12'

SEC NO 20208



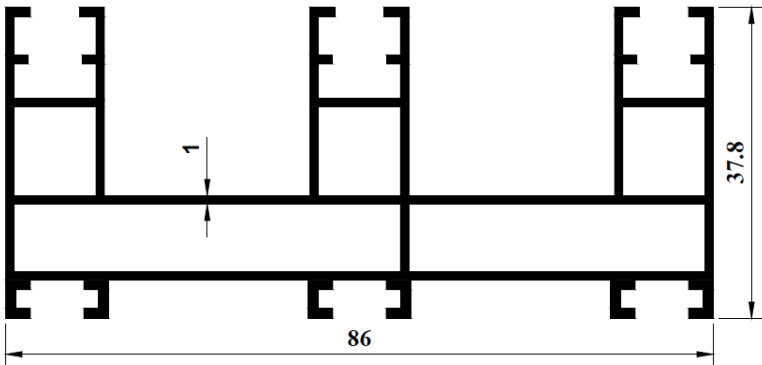
Wt- 4.000 Kg/12'

SEC NO 20209



Wt- 2.400 Kg/12'

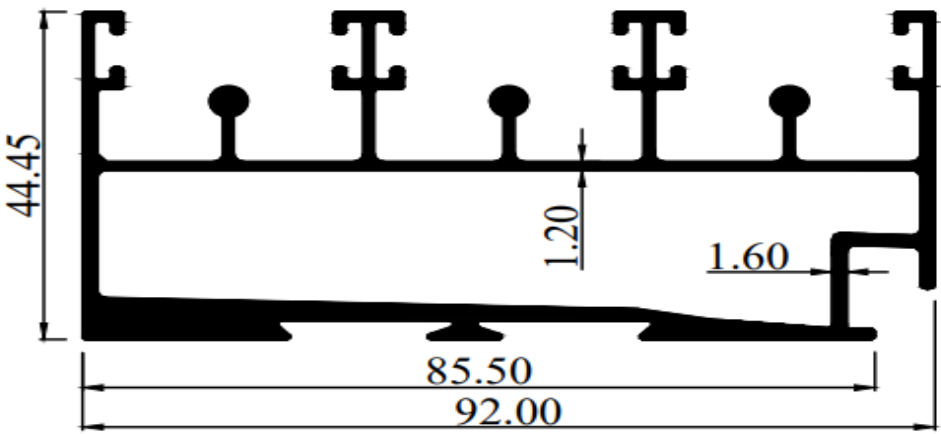
SEC NO 20210



Wt- 4.440 Kg/12'

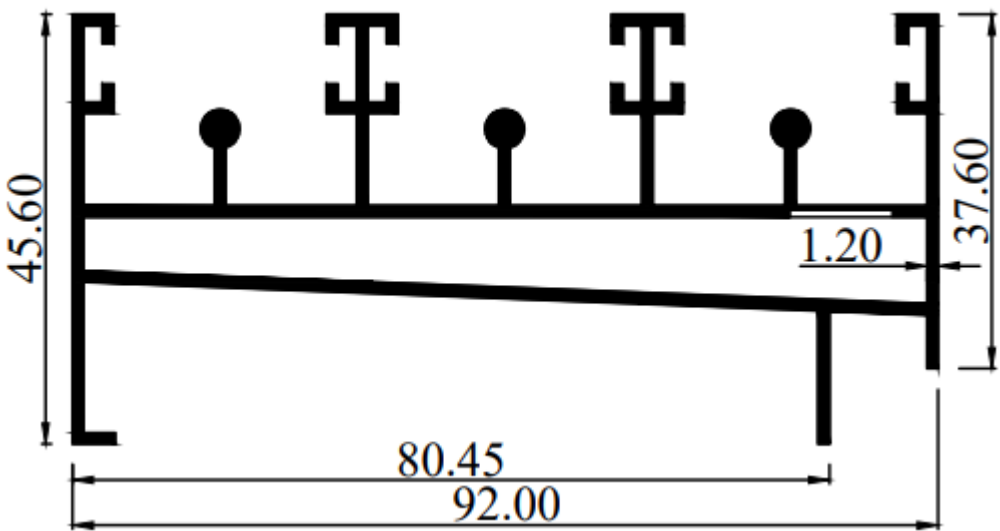
30 MM EURO SLIDING SERIES

SEC NO 20300



Wt- 6.900 Kg/12'

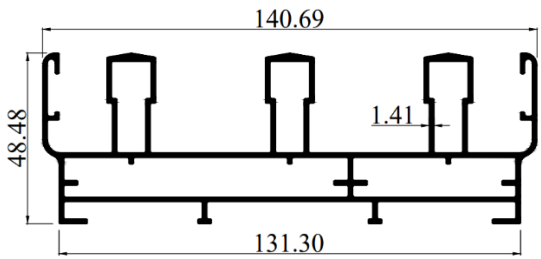
SEC NO 20350



Wt- 5.100 Kg/12'

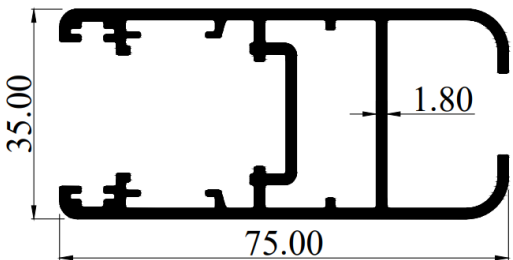
35 MM EURO SLIDING SERIES

SEC NO 20400



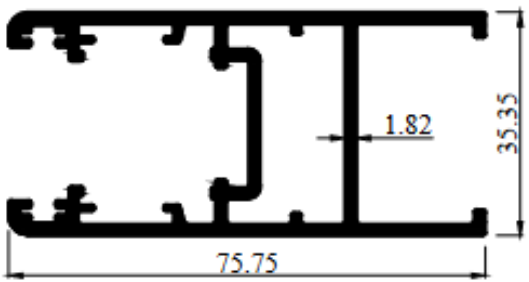
Wt- 9.200 Kg/12'

SEC NO 20401



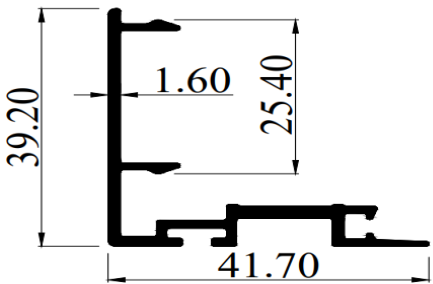
Wt- 4.970 Kg/12'

SEC NO 20402



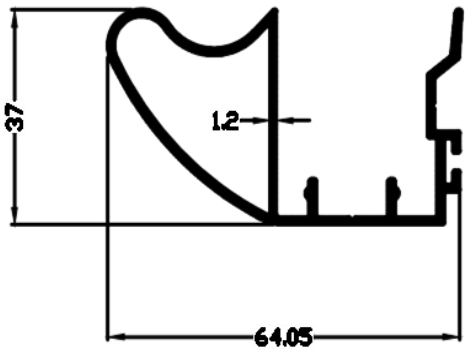
Wt- 4.900 Kg/12'

SEC NO 20403



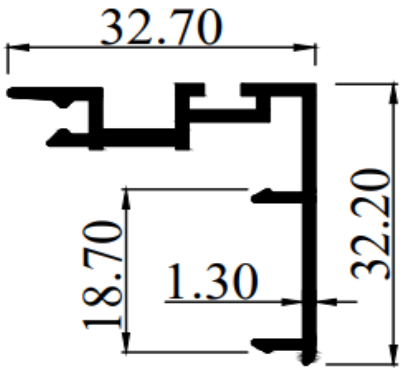
Wt- 1.700 Kg/12'

SEC NO 20404



Wt- 2.570 Kg/12'

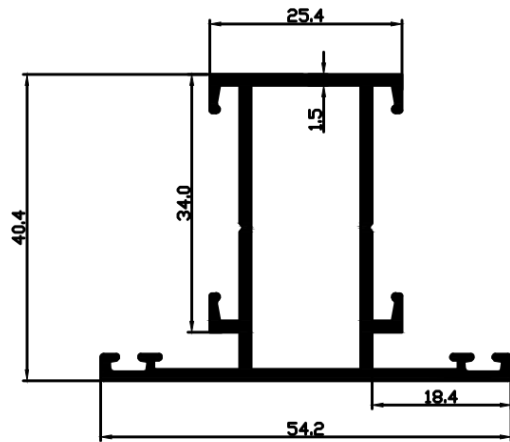
SEC NO 20405



Wt- 1.270 Kg/12'

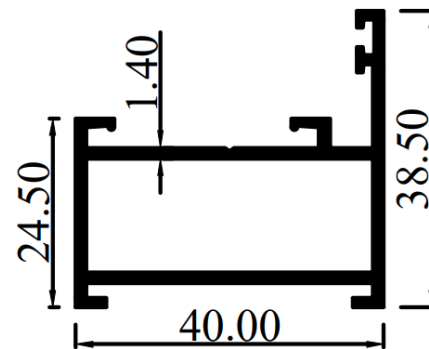
40 MM EURO SLIDING SERIES

SEC NO 20500



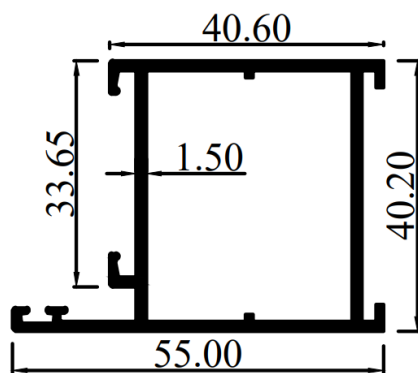
Wt- 2.500 Kg/12'

SEC NO 20501



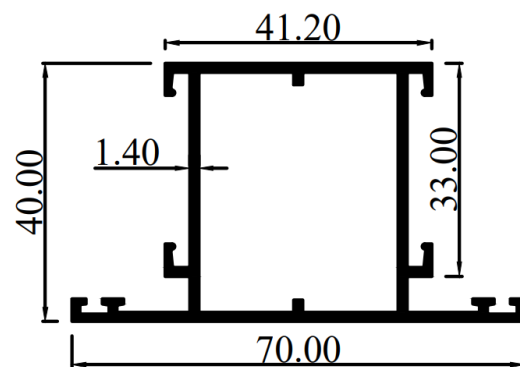
Wt- 2.140 Kg/12'

SEC NO 20502



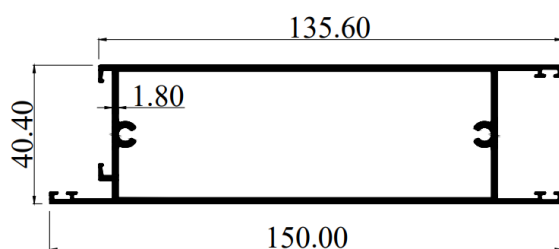
Wt- 2.700 Kg/12'

SEC NO 20503



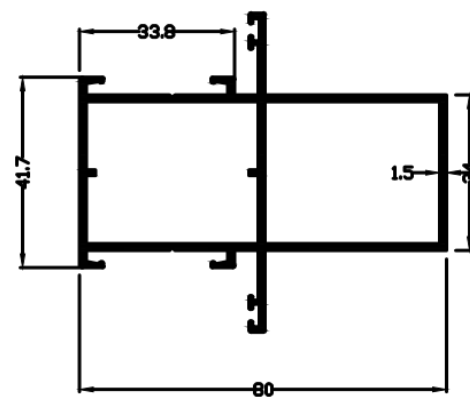
Wt- 3.000 Kg/12'

SEC NO 20504



Wt- 6.830 Kg/12'

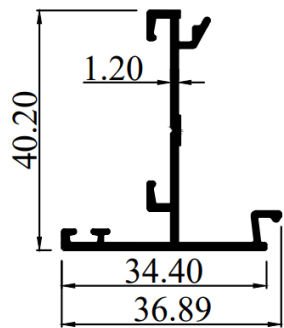
SEC NO 20505



Wt- 4.780 Kg/12'

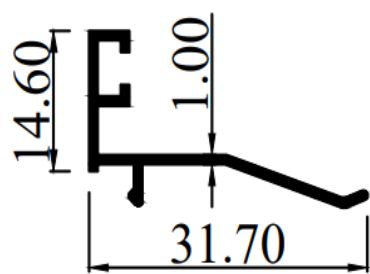
40 MM EURO SLIDING SERIES

SEC NO 20506



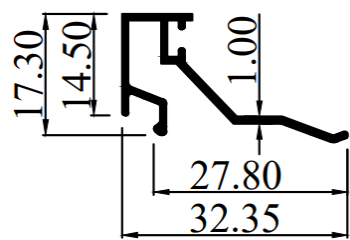
Wt- 1.320 Kg/12'

SEC NO 20507



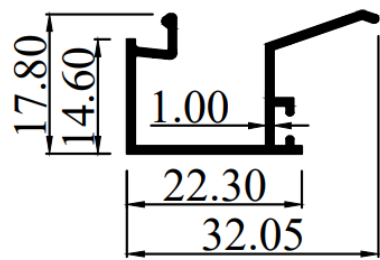
Wt- 0.590Kg/12'

SEC NO 20508



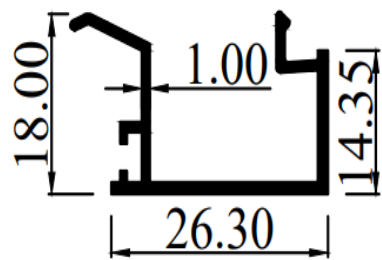
Wt- 0.660 Kg/12'

SEC NO 20509



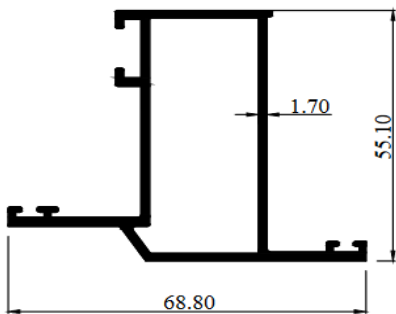
Wt- 0.760 Kg/12'

SEC NO 20510



Wt- 0.840 Kg/12'

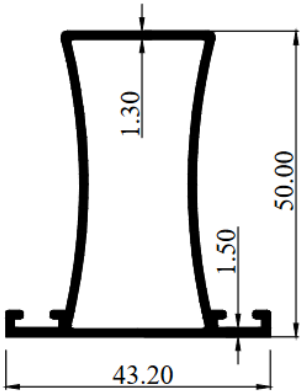
SEC NO 20511



Wt-3.850 Kg/12'

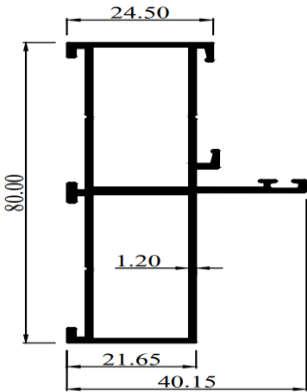
40 MM EURO SLIDING SERIES

SEC NO 20512



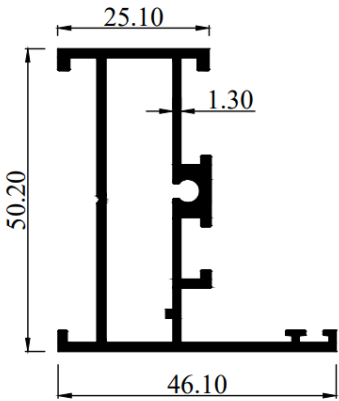
Wt-2.300 Kg/12'

SEC NO 20513



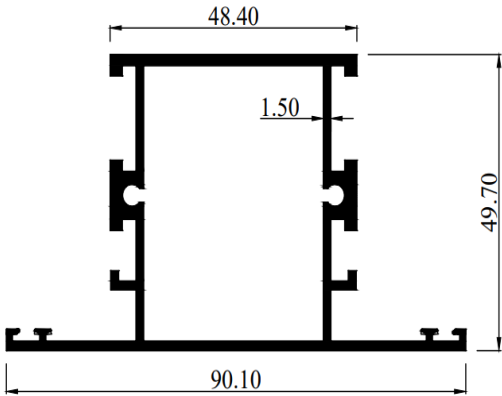
Wt-3.350 Kg/12'

SEC NO 20514



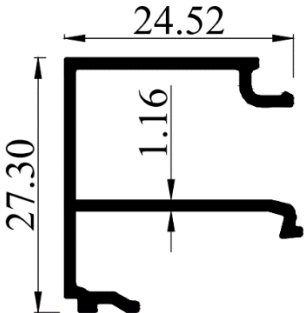
Wt-3.000 Kg/12'

SEC NO 20515



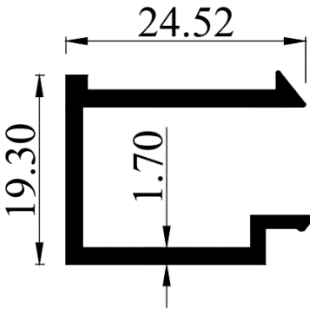
Wt-4.850 Kg/12'

SEC NO 20516



Wt-1.050 Kg/12'

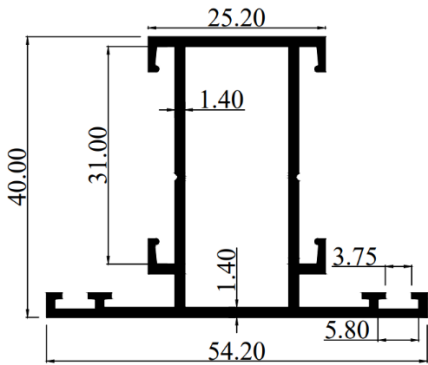
SEC NO 20517



Wt-1.130 Kg/12'

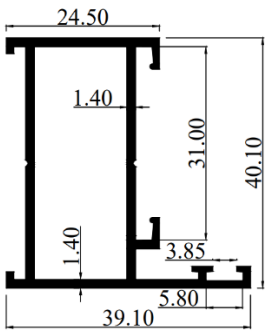
40 MM EURO SLIDING SERIES

SEC NO 20518



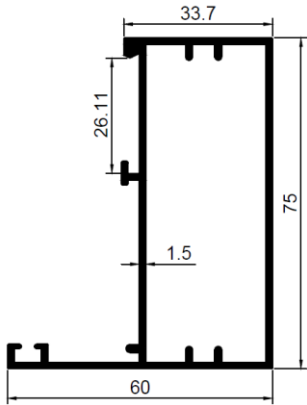
Wt-2.500 Kg/12'

SEC NO 20519



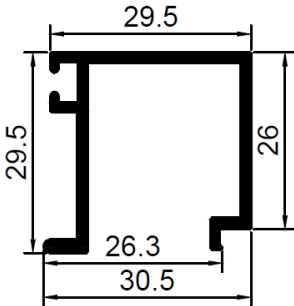
Wt- 2.100Kg/12'

SEC NO 20520



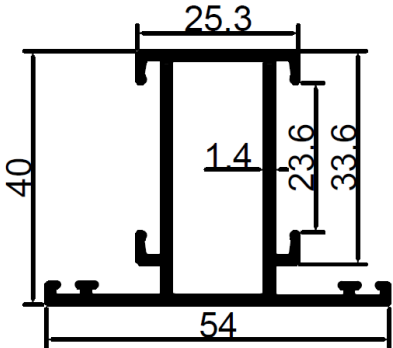
Wt-4.100 Kg/12'

SEC NO 20521



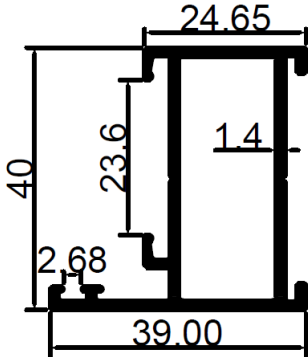
Wt-1.500 Kg/12'

SEC NO 20522



Wt-2.450 Kg/12'

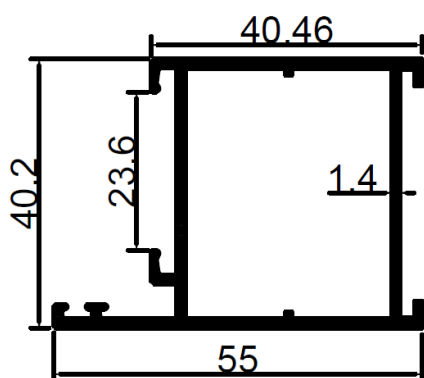
SEC NO 20523



Wt- 2.150 Kg/12'

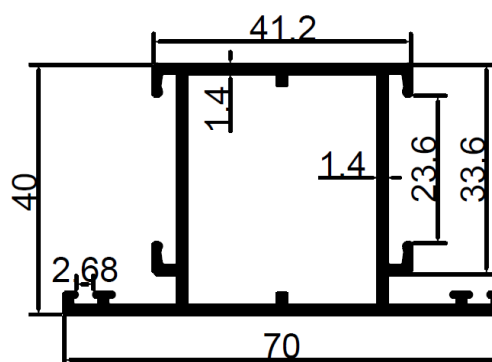
40 MM EURO SLIDING SERIES

SEC NO 20524



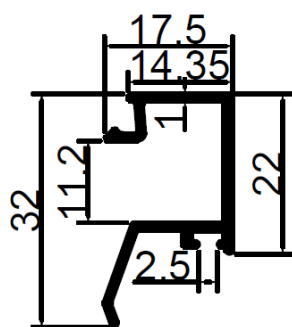
Wt-2.600 Kg/12'

SEC NO 20525



Wt- 3.000 Kg/12'

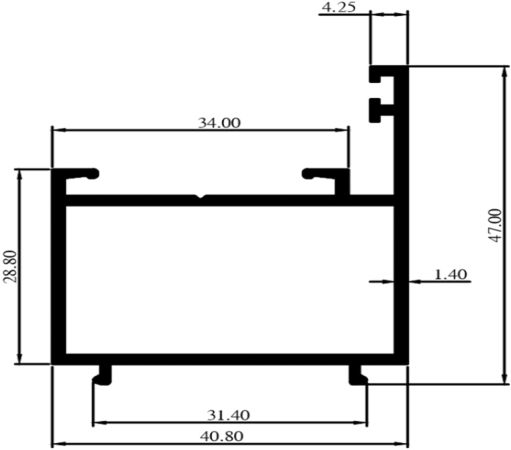
SEC NO 20526



Wt-0.800 Kg/12'

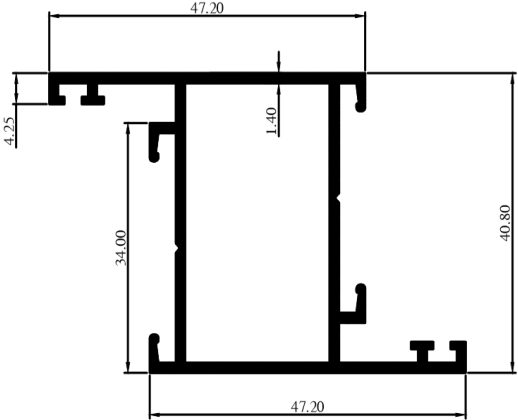
45 MM EURO SLIDING SERIES

SEC NO 20600



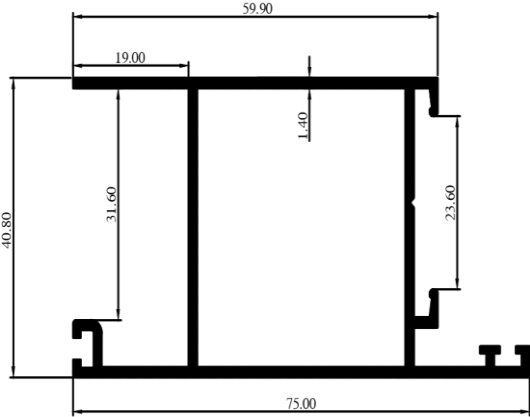
Wt- 2.350 Kg/12'

SEC NO 20601



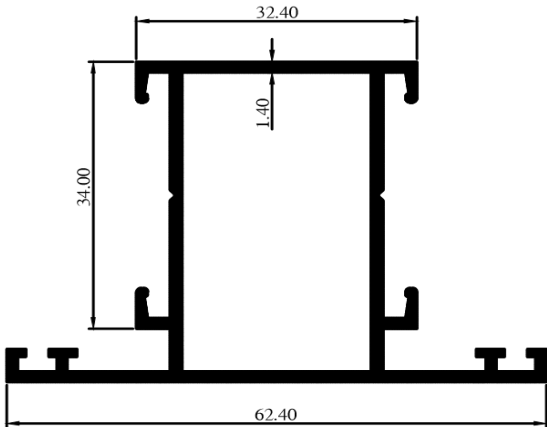
Wt-2.800 Kg/12'

SEC NO 20602



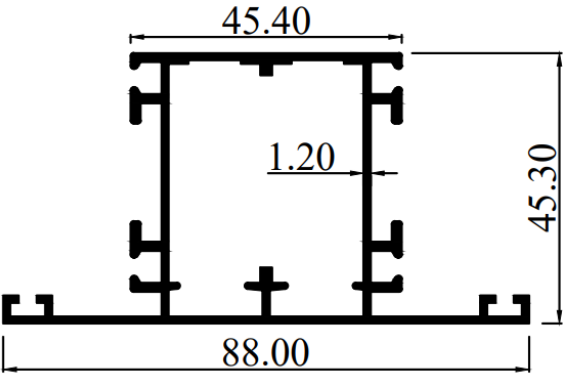
Wt-3.270 Kg/12'

SEC NO 20603



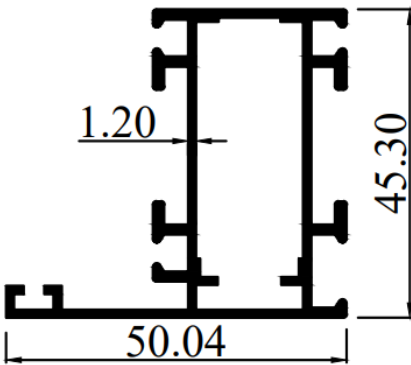
Wt-2.800 Kg/12'

SEC NO 20604



Wt-4.000 Kg/12'

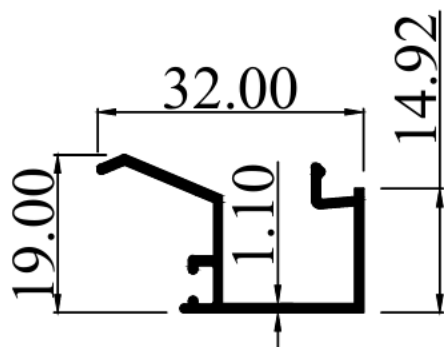
SEC NO 20605



Wt- 2.950 Kg/12'

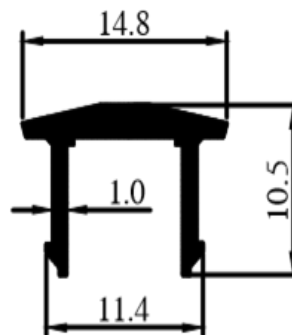
45 MM EURO SLIDING SERIES

SEC NO 20606



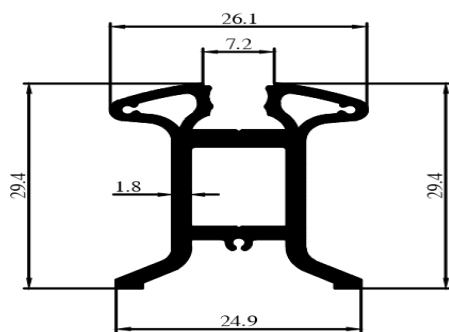
Wt- 0.800Kg/12'

SEC NO 20607



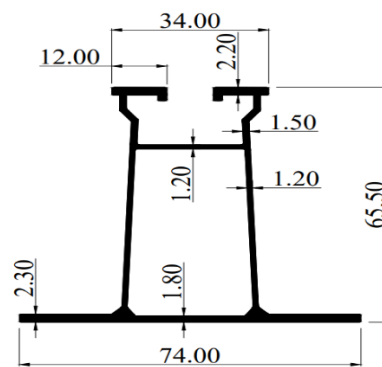
Wt-0.390 Kg/12'

SEC NO 20608



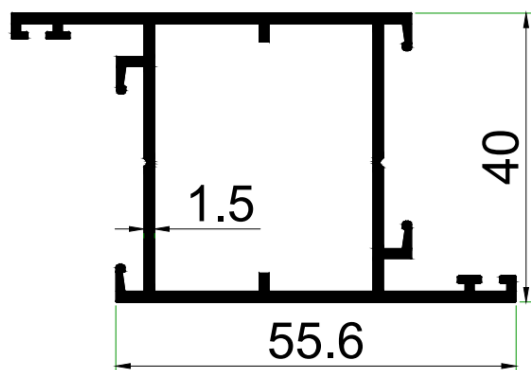
Wt- 7.130 Kg/12'

SEC NO 20609



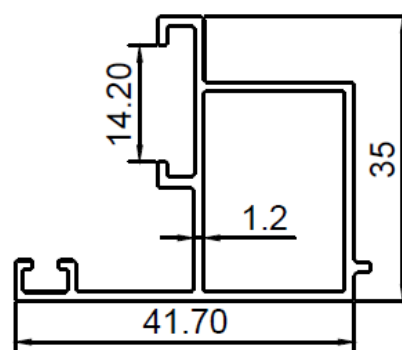
Wt- 4.000 Kg/12'

SEC NO 20610



Wt- 3.200 Kg/12'

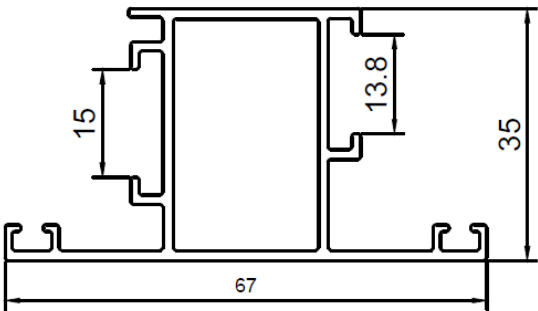
SEC NO 20611



Wt- 1.670 Kg/12'

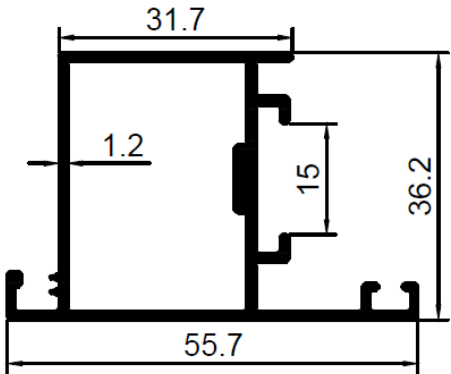
45 MM EURO SLIDING SERIES

SEC NO 20612



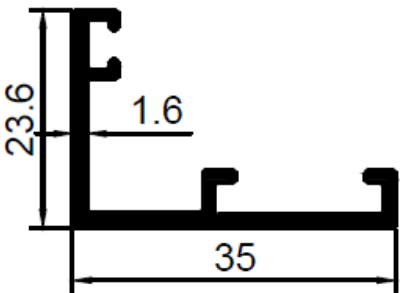
Wt-2.720 Kg/12'

SEC NO 20613



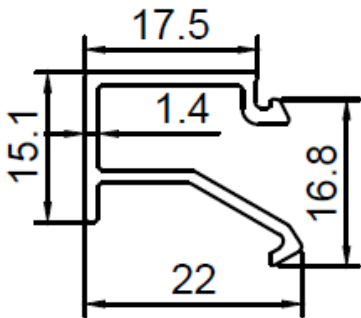
Wt-2.350 Kg/12'

SEC NO 20614



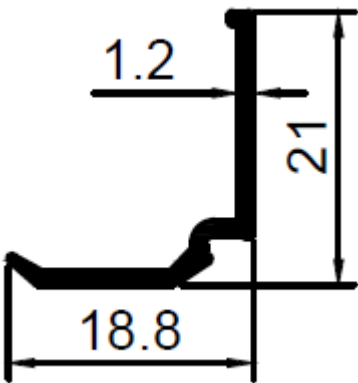
Wt-1.130 Kg/12'

SEC NO 20615



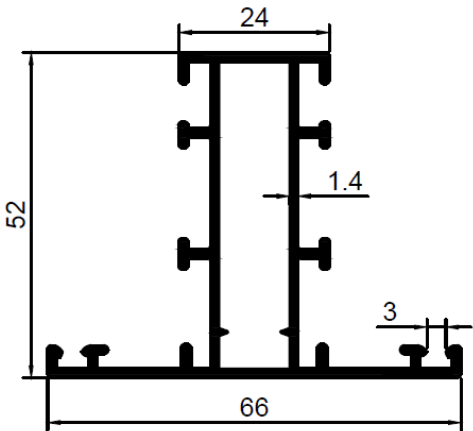
Wt-0.830 Kg/12'

SEC NO 20616



Wt-0.450 Kg/12'

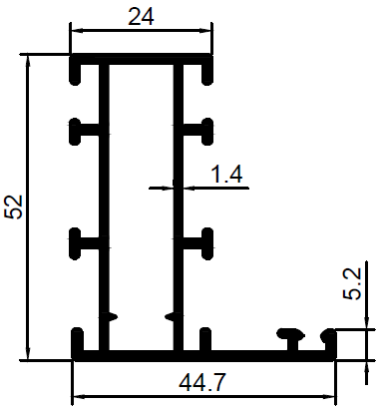
SEC NO 20617



Wt- 3.730 Kg/12'

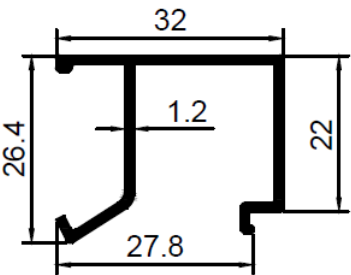
45 MM EURO SLIDING SERIES

SEC NO 20618



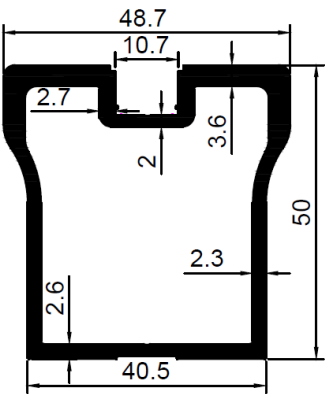
Wt-3.250 Kg/12'

SEC NO 20619



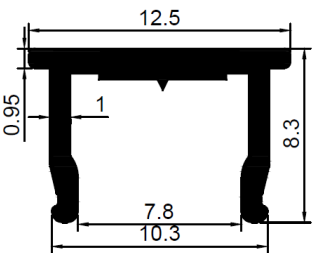
Wt-1.100 Kg/12'

SEC NO 20620



Wt-5.150 Kg/12'

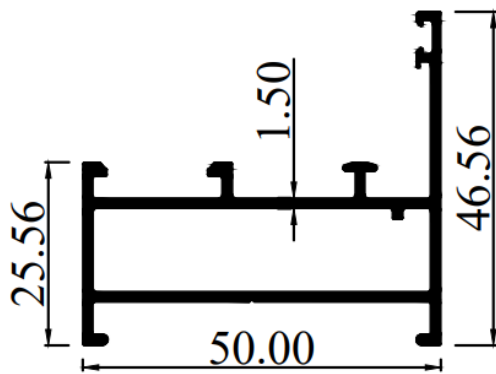
SEC NO 20621



Wt-0.300 Kg/12'

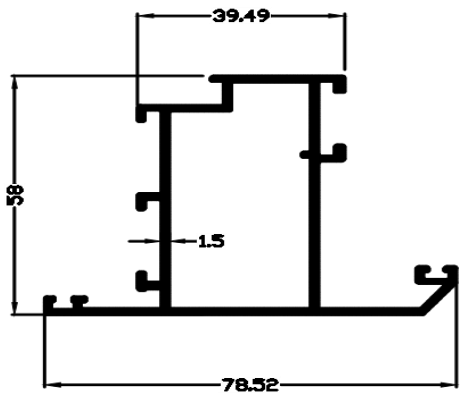
50 MM EURO SLIDING SERIES

SEC NO 20700



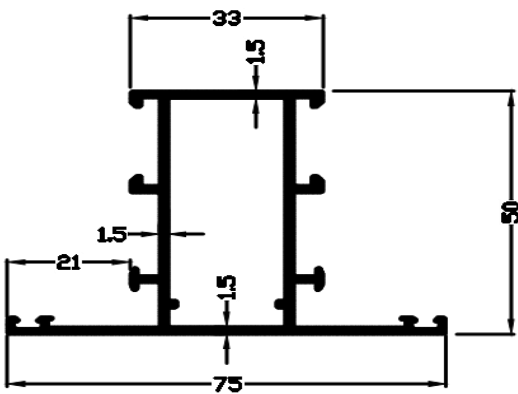
Wt-2.800 Kg/12'

SEC NO 20701



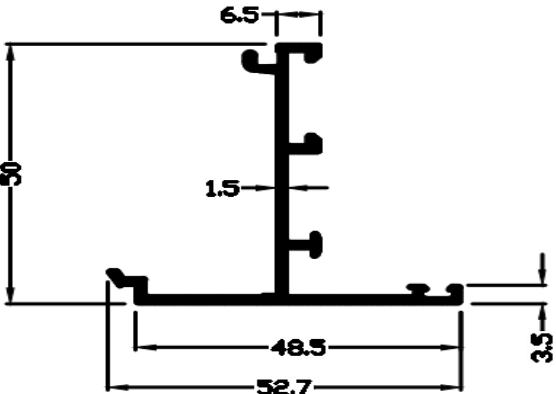
Wt- 4.130 Kg/12'

SEC NO 20702



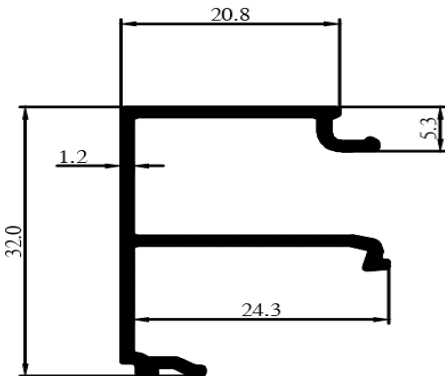
Wt-3.600 Kg/12'

SEC NO 20703



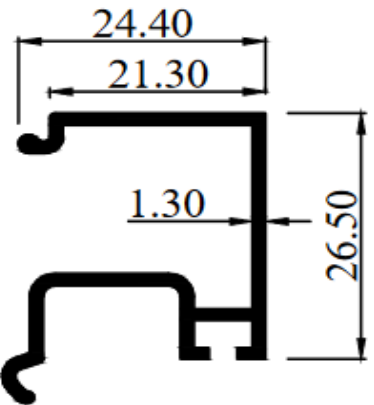
Wt- 2.000 Kg/12'

SEC NO 20704



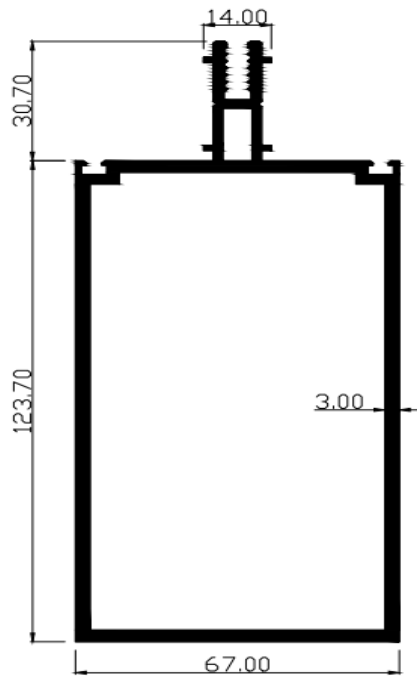
Wt- 1.100 Kg/12'

SEC NO 20705



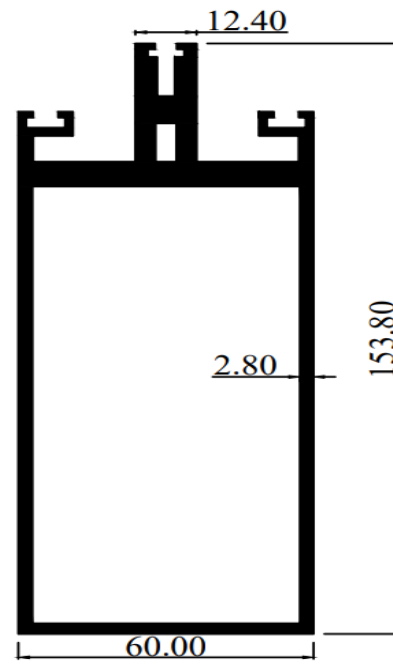
Wt-1.260 Kg/12'

SEC NO 21000



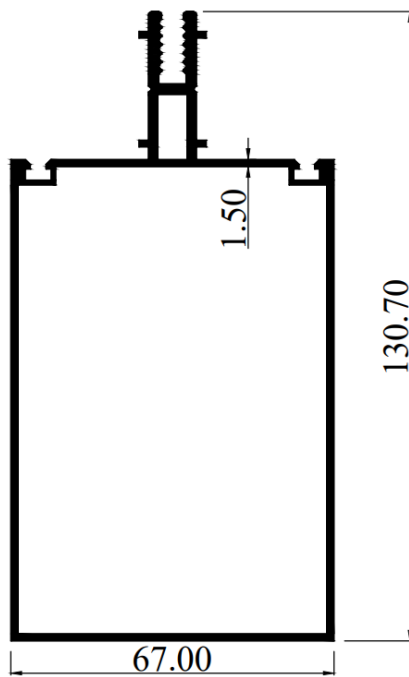
Wt-12.450 Kg/12'

SEC NO 21001



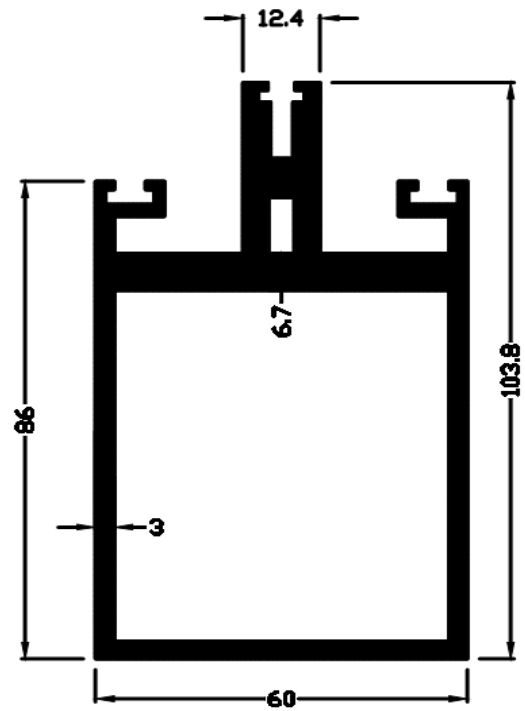
Wt-15.800 Kg/12'

SEC NO 21002



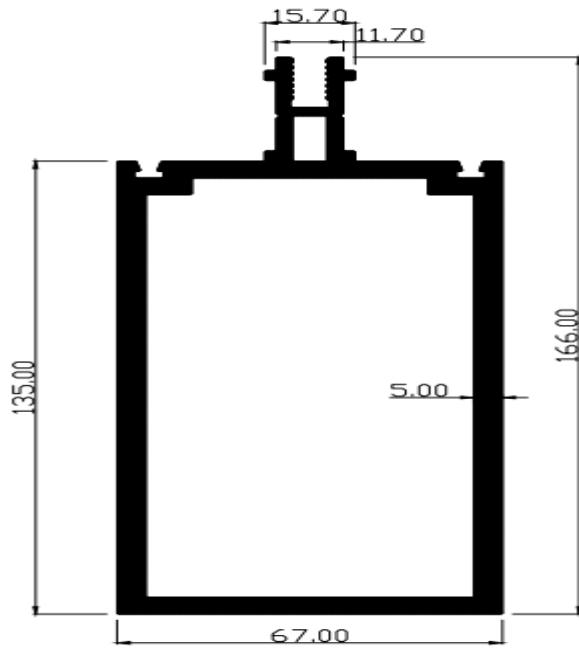
Wt-6.600 Kg/12'

SEC NO 21003



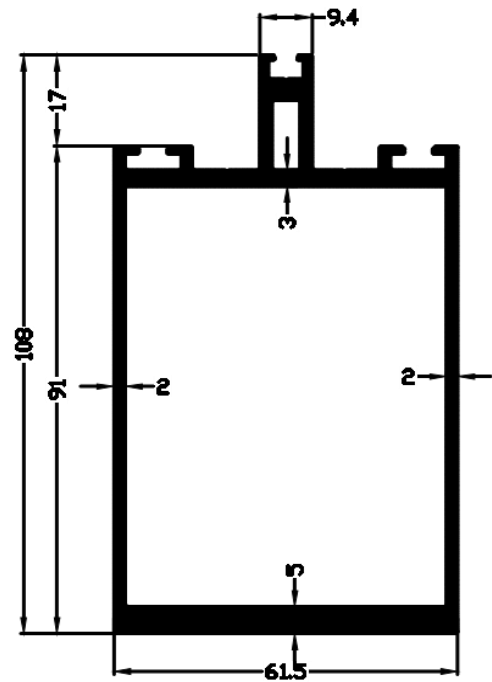
Wt-13.500 Kg/12'

SEC NO 21004



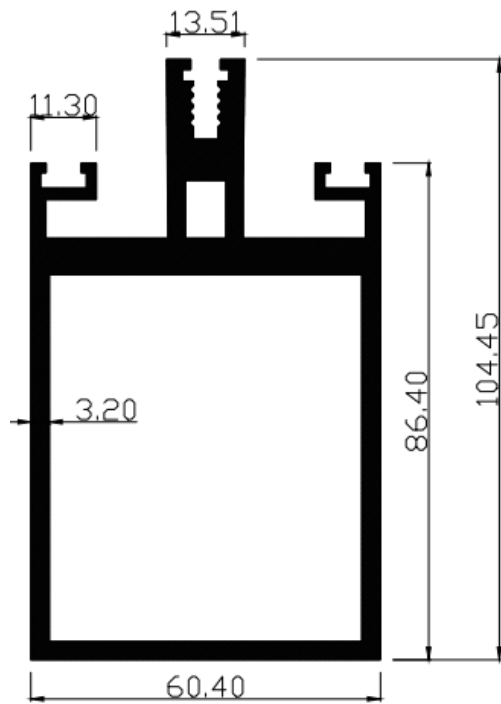
Wt-21.400 Kg/12'

SEC NO 21005



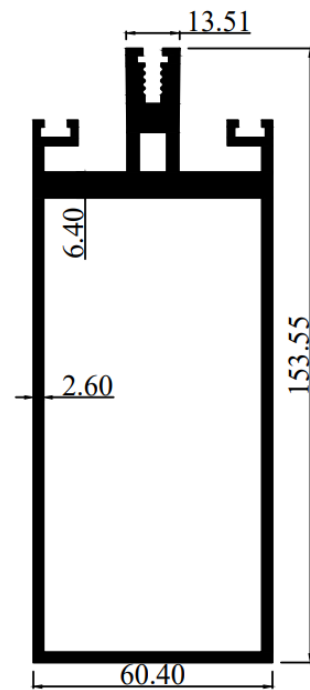
Wt-9.480 Kg/12'

SEC NO 21006



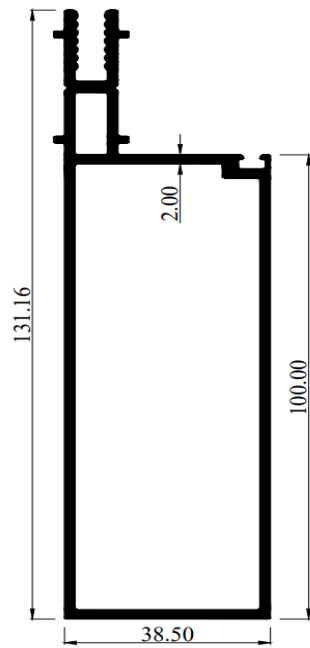
Wt-13.500 Kg/12'

SEC NO 21007



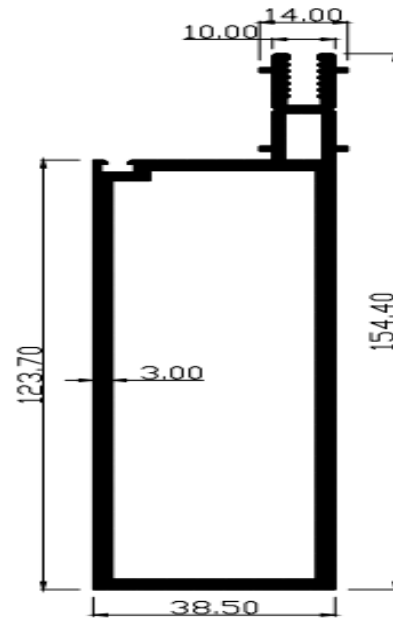
Wt-15.000Kg/12'

SEC NO 21008



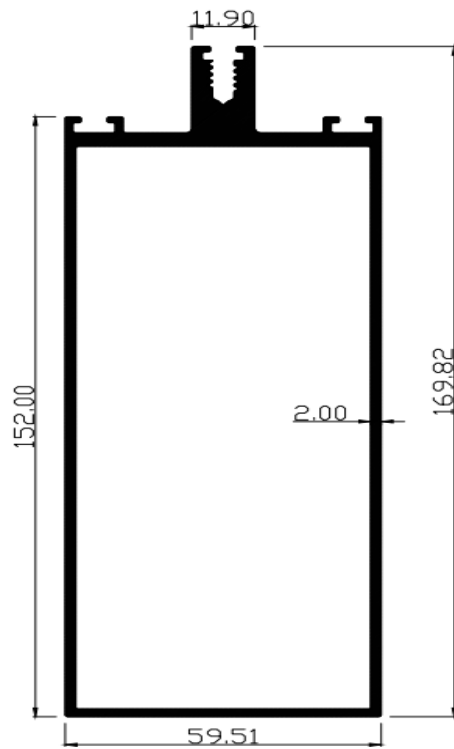
Wt-6.900 Kg/12'

SEC NO 21009



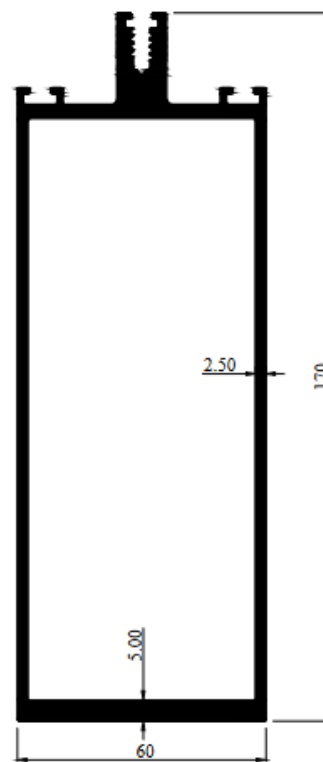
Wt-10.770 Kg/12'

SEC NO 21010



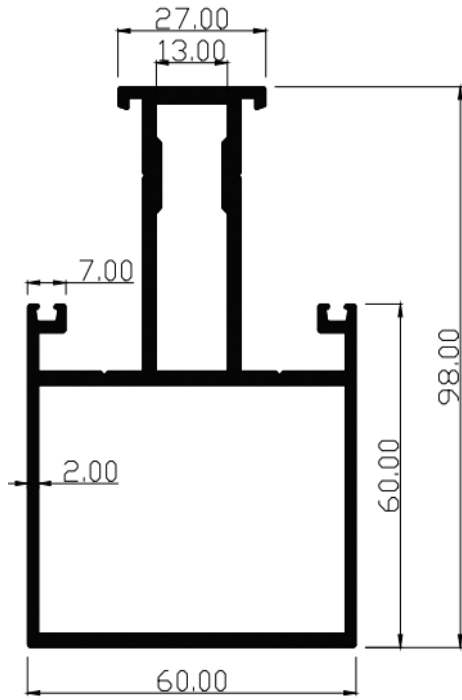
Wt-11.000 Kg/12'

SEC NO 21011



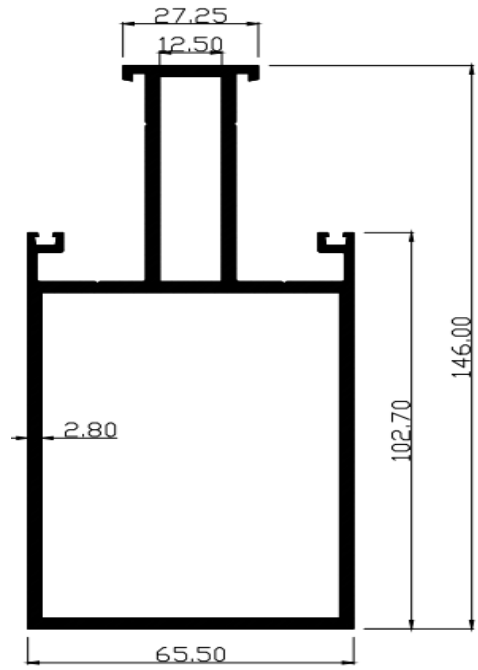
Wt-13.940 Kg/12'

SEC NO 21012



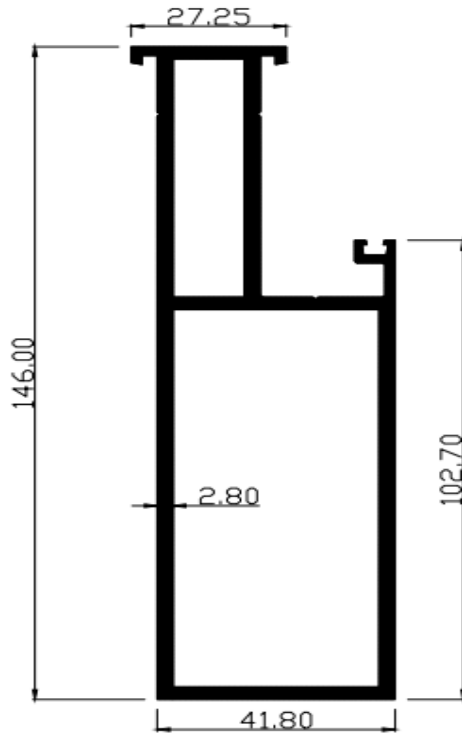
Wt-8.660 Kg/12'

SEC NO 21013



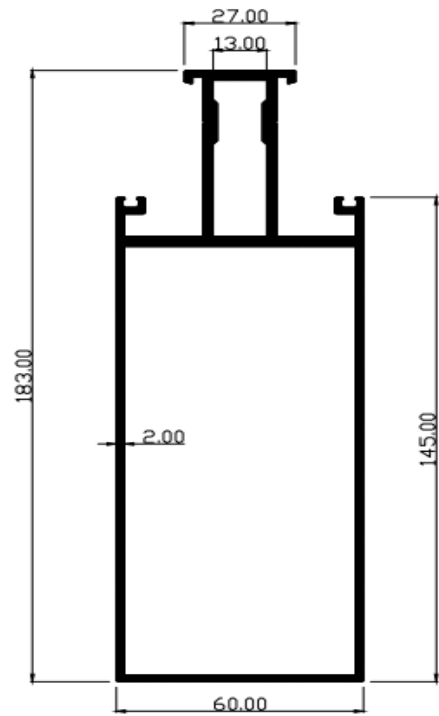
Wt-12.600 Kg/12'

SEC NO 21014



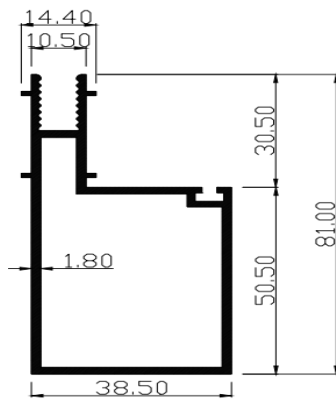
Wt-10.950 Kg/12'

SEC NO 21015



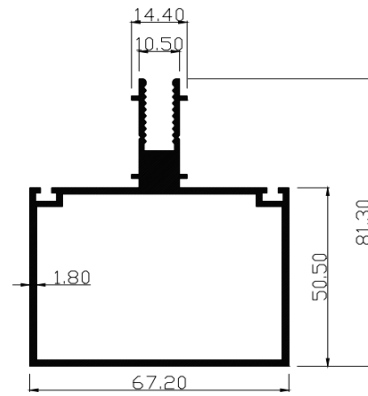
Wt-12.000 Kg/12'

SEC NO 21016



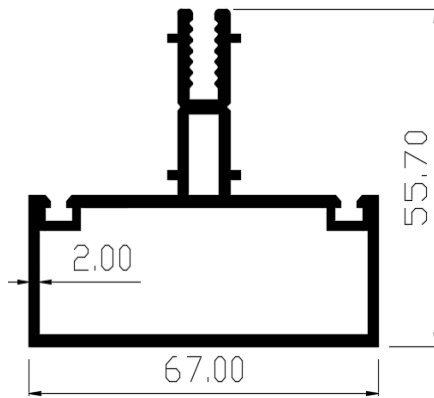
Wt-4.160 Kg/12'

SEC NO 21017



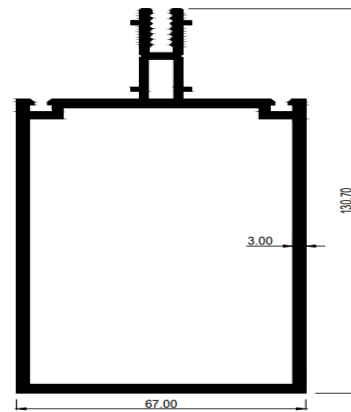
Wt-5.920 Kg/12'

SEC NO 21018



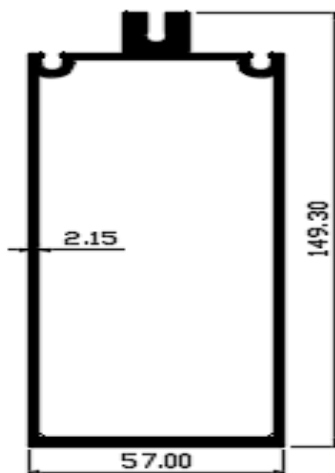
Wt-5.300 Kg/12'

SEC NO 21019



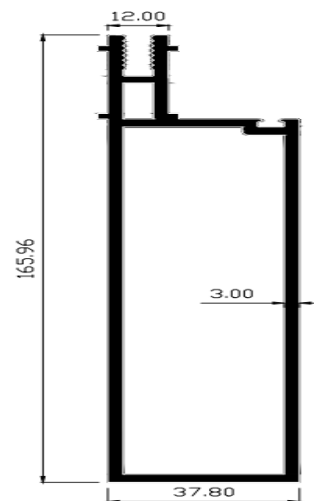
Wt-10.600 Kg/12'

SEC NO 21020



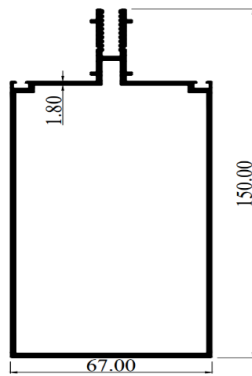
Wt-10.300 Kg/12'

SEC NO 21021



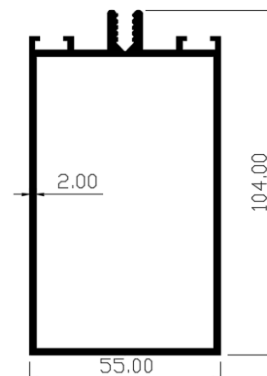
Wt-12.200 Kg/12'

SEC NO 21022



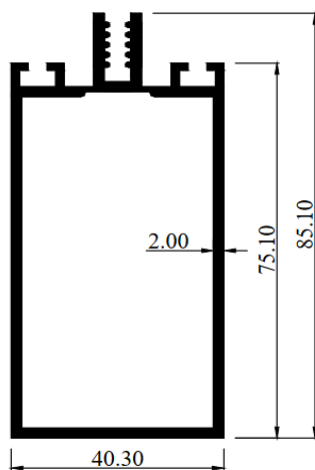
Wt-8.200 Kg/12'

SEC NO 21023



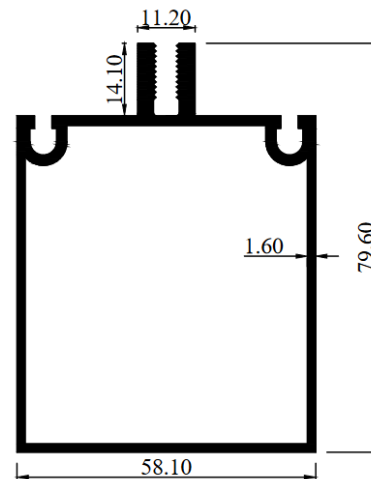
Wt-6.570 Kg/12'

SEC NO 21024



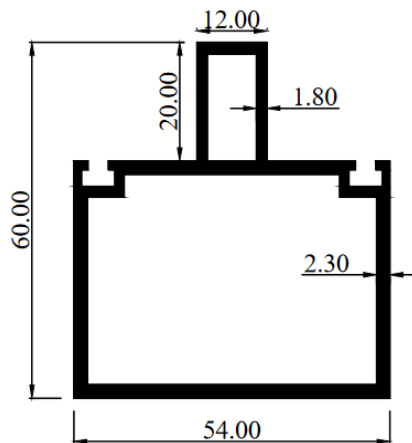
Wt-5.200 Kg/12'

SEC NO 21025



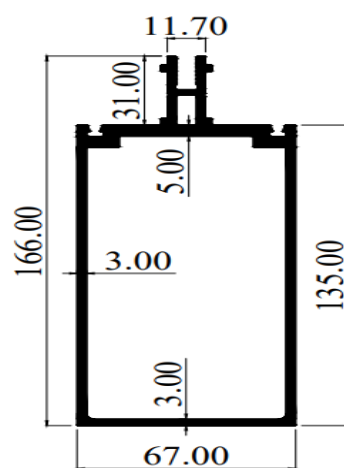
Wt-5.370 Kg/12'

SEC NO 21026



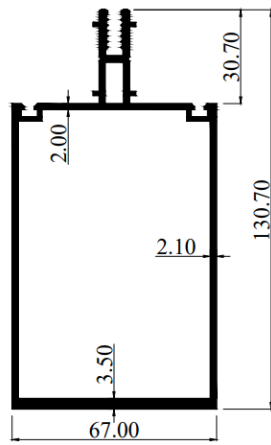
Wt-5.000 Kg/12'

SEC NO 21027



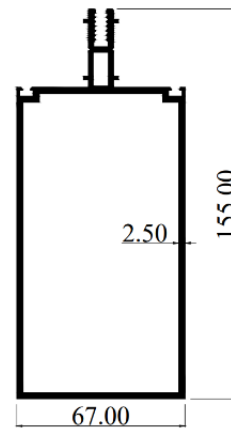
Wt-15.500 Kg/12'

SEC NO 21028



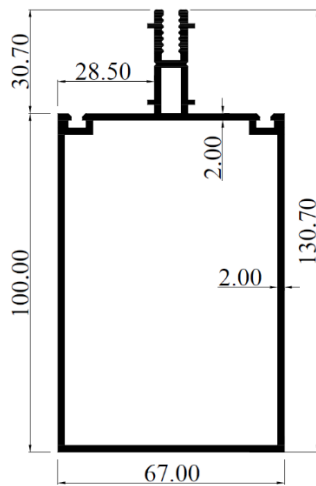
Wt-9.300 Kg/12'

SEC NO 21029



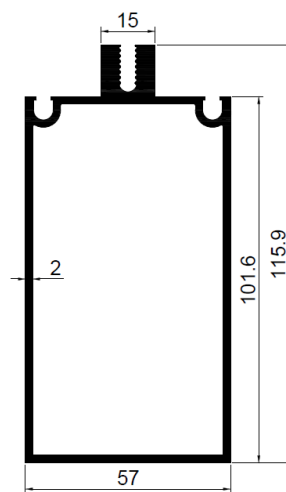
Wt-10.900 Kg/12'

SEC NO 21030



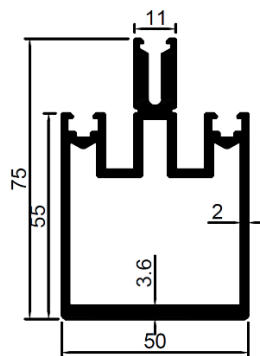
Wt-8.350 Kg/12'

SEC NO 21031



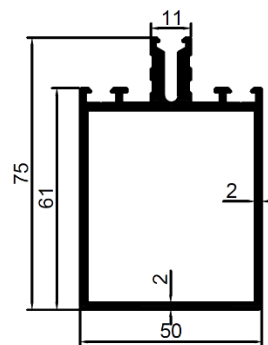
Wt-7.950 Kg/12'

SEC NO 21032



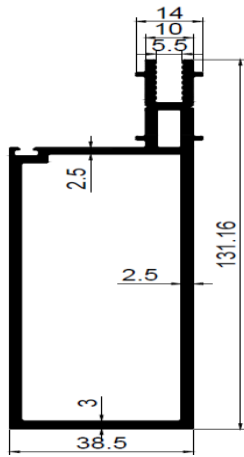
Wt-7.200Kg/12'

SEC NO 21033



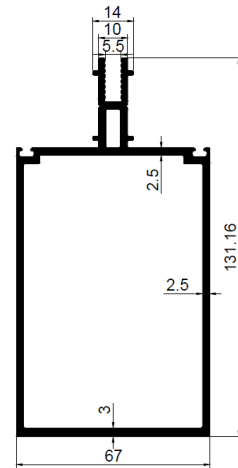
.Wt-5.450 Kg/12'

SEC NO 21034



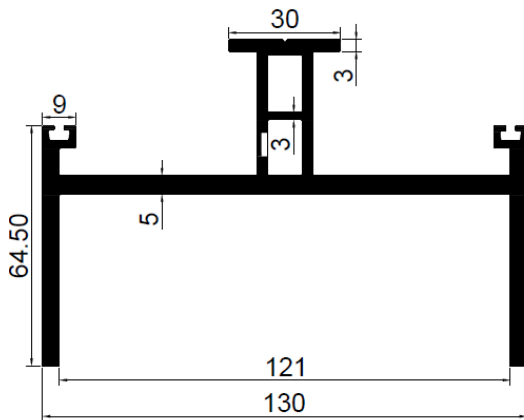
Wt-8.440 Kg/12'

SEC NO 21035



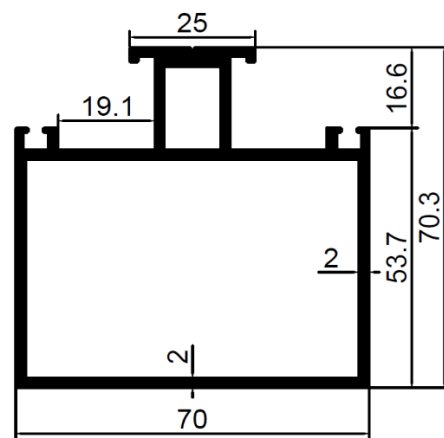
Wt-10.000 Kg/12'

SEC NO 21036



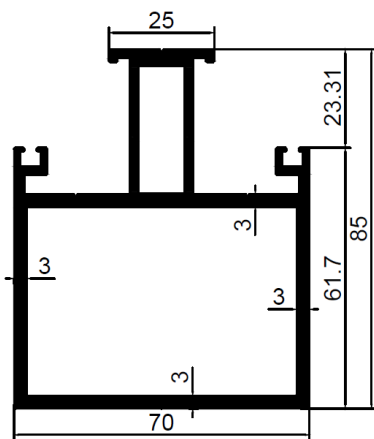
Wt-14.840 Kg/12'

SEC NO 21037



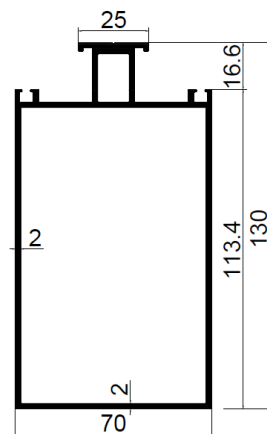
Wt-6.350 Kg/12'

SEC NO 21038



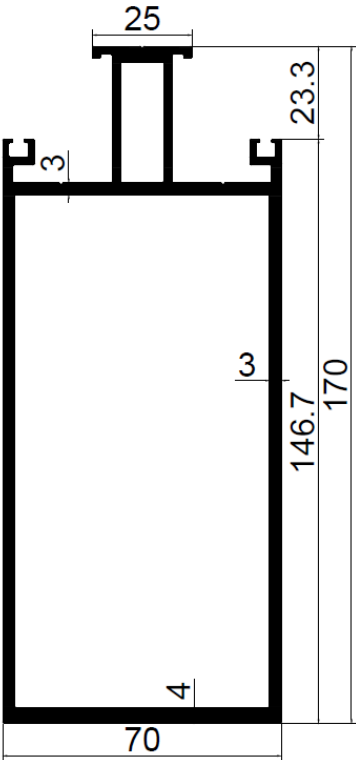
Wt-9.650 Kg/12'

SEC NO 21039



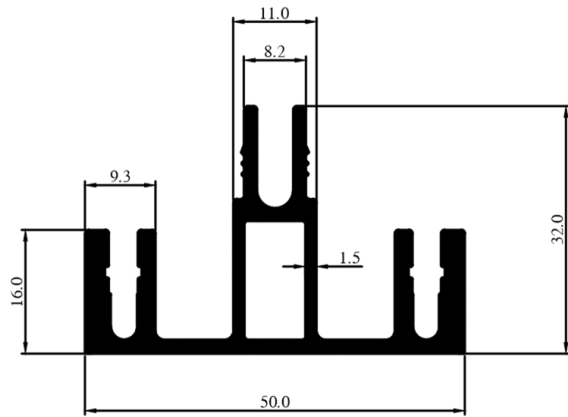
Wt-8.700 Kg/12'

SEC NO 21040



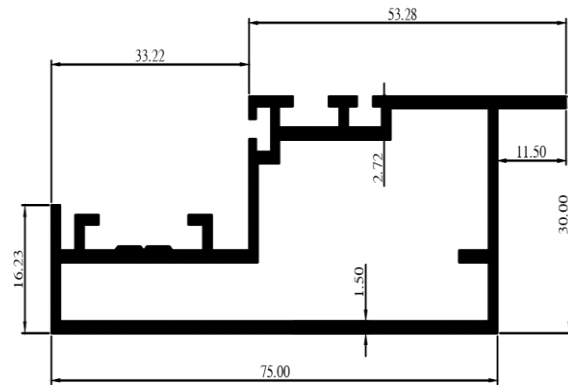
Wt-15.300 Kg/12'

SEC NO 21500



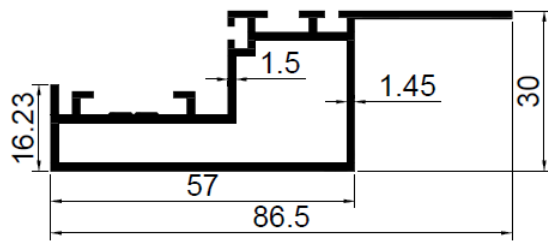
Wt-3.600 Kg/12'

SEC NO 21501



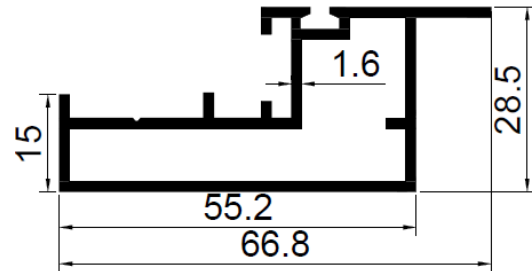
Wt-3.860 Kg/12'

SEC NO 21502



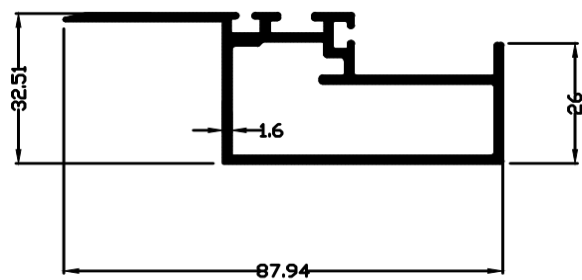
Wt-3.430 Kg/12'

SEC NO 21503



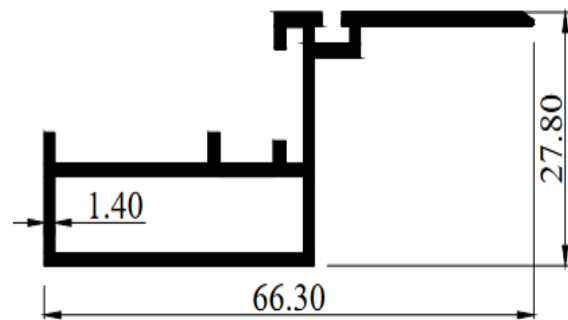
Wt-3.100 Kg/12'

SEC NO 21504



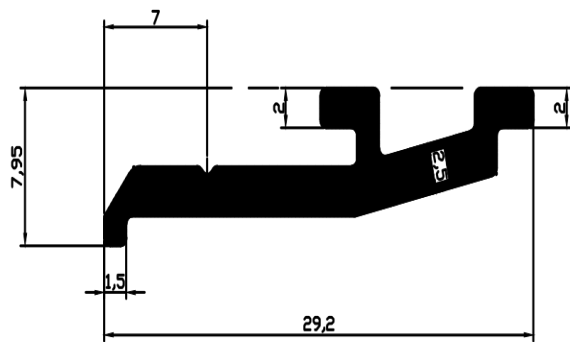
Wt-3.640 Kg/12'

SEC NO 21505



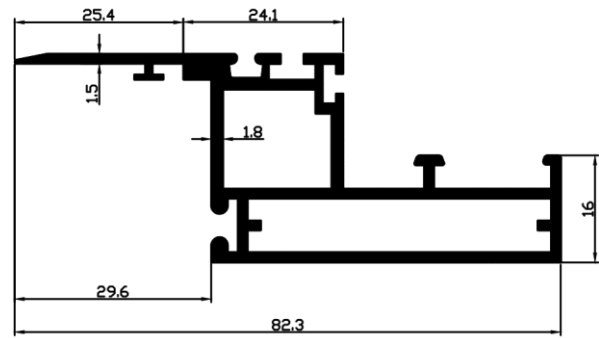
Wt-2.230 Kg/12'

SEC NO 21506



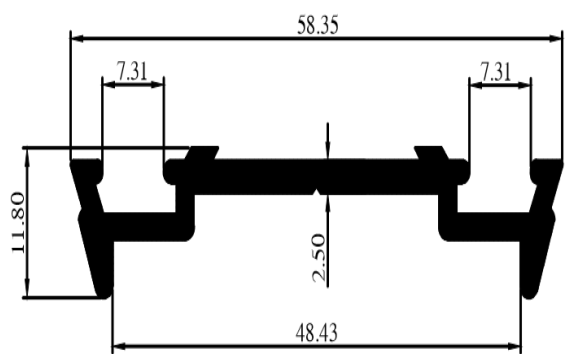
Wt-0.830 Kg/12'

SEC NO 21507



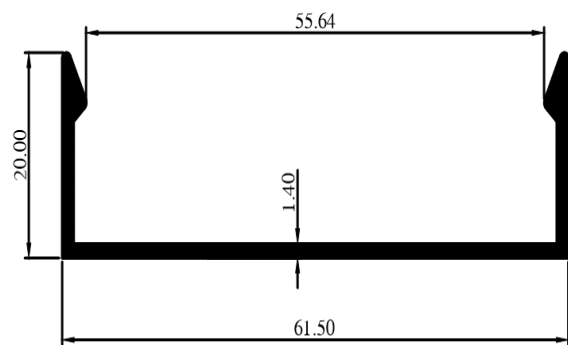
Wt-3.860 Kg/12'

SEC NO 21508



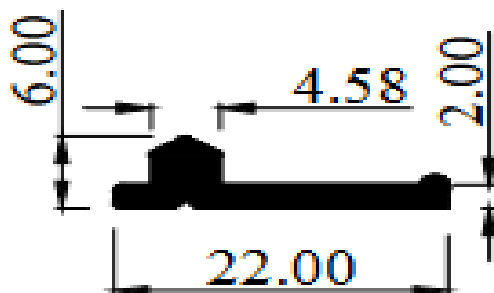
Wt-1.940 Kg/12'

SEC NO 21509



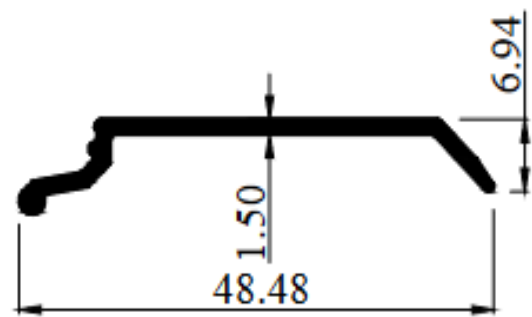
Wt-1.430 Kg/12'

SEC NO 21510



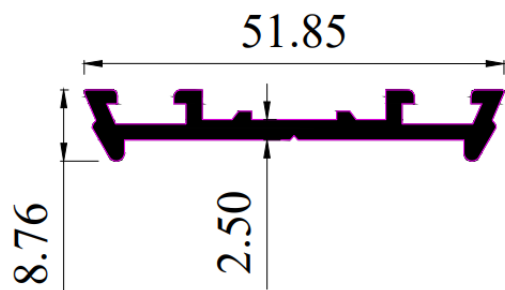
Wt-0.580 Kg/12'

SEC NO 21511



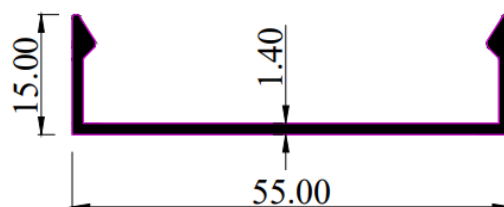
Wt-0.830 Kg/12'

SEC NO 21512



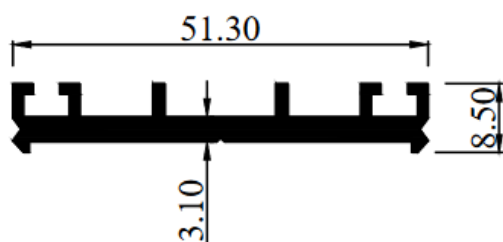
Wt-1.600 Kg/12'

SEC NO 21513



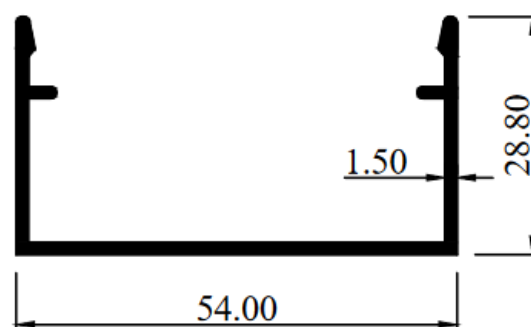
Wt-1.200 Kg/12'

SEC NO 21514



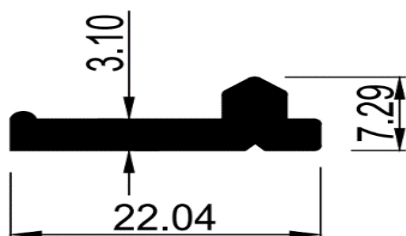
Wt-1.950 Kg/12'

SEC NO 21515



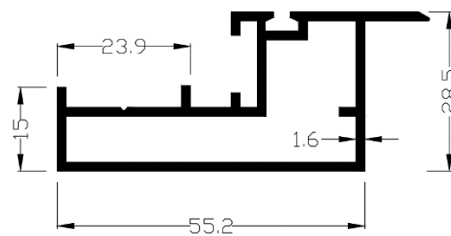
Wt-1.720 Kg/12'

SEC NO 21516



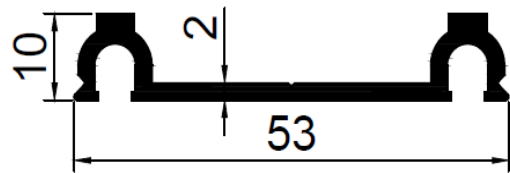
Wt-0.830 Kg/12'

SEC NO 21517



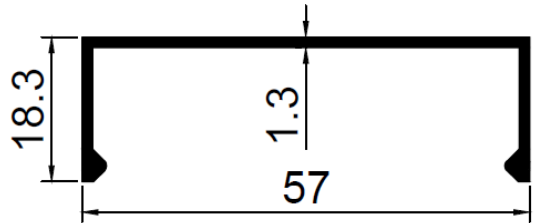
Wt-3.123 Kg/12'

SEC NO 21518



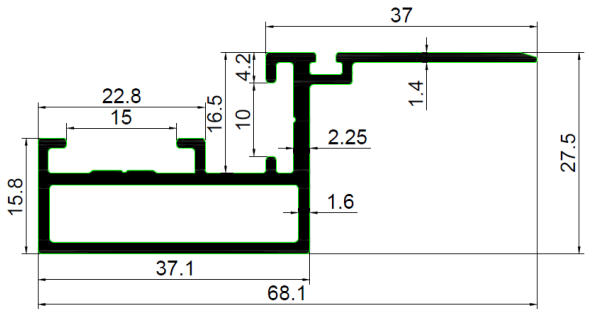
Wt-1.570 Kg/12'

SEC NO 21519



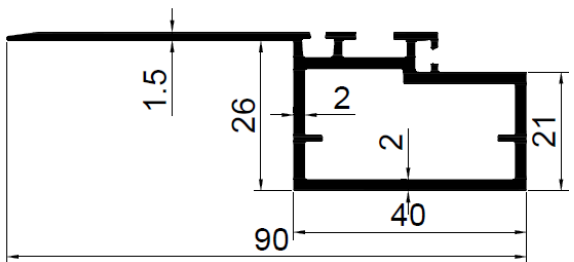
Wt-1.250 Kg/12'

SEC NO 21520



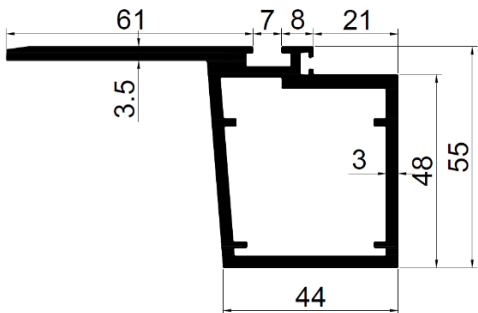
Wt-2.600 Kg/12'

SEC NO 21521



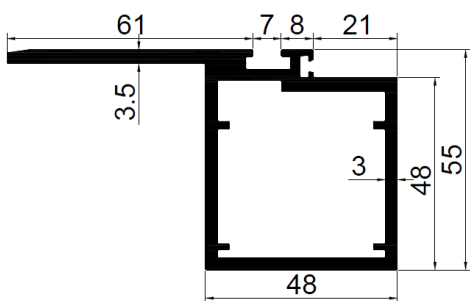
Wt-3.500 Kg/12'

SEC NO 21522



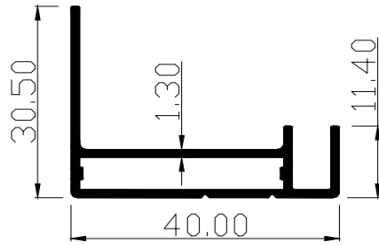
Wt-8.100 Kg/12'

SEC NO 21523



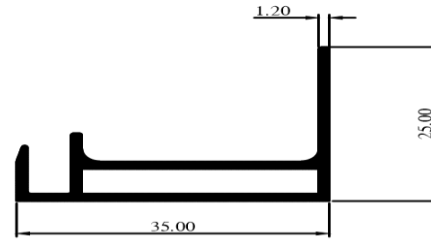
Wt-8.200 Kg/12'

SEC NO 22000



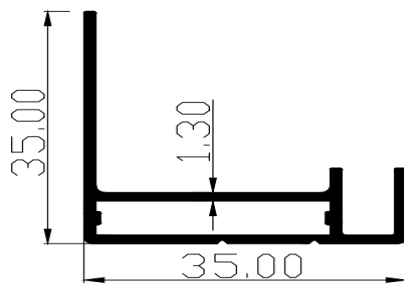
Wt-1.540 Kg/12'

SEC NO 22001



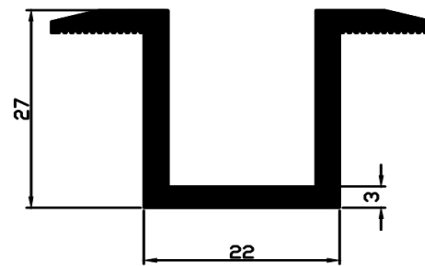
Wt-1.220 Kg/12'

SEC NO 22002



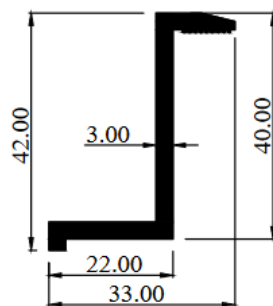
Wt-1.450 Kg/12'

SEC NO 22003



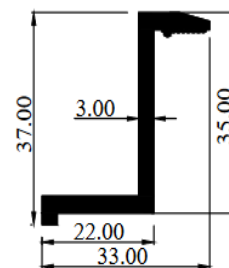
Wt-2.600 Kg/12'

SEC NO 22004



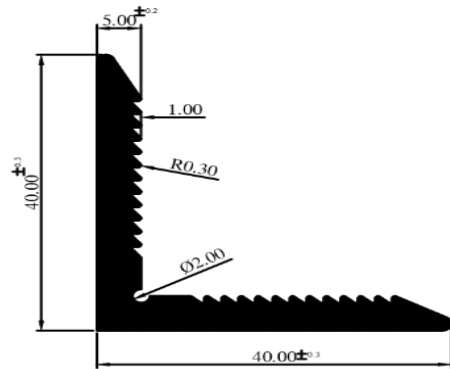
Wt-2.100 Kg/12'

SEC NO 22005



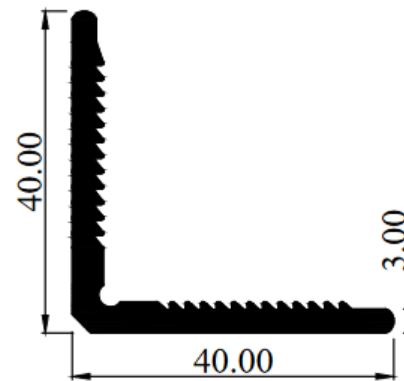
Wt-1.900 Kg/12'

SEC NO 22006



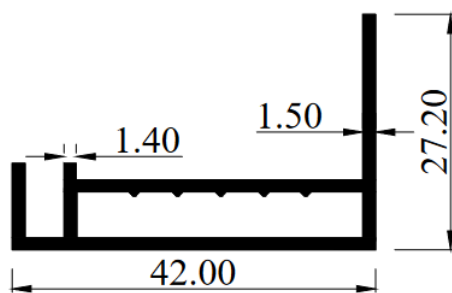
Wt-3.200 Kg/12'

SEC NO 22007



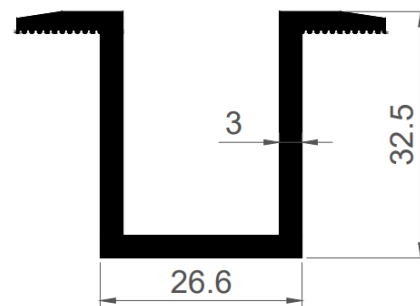
Wt-2.520 Kg/12'

SEC NO 22008



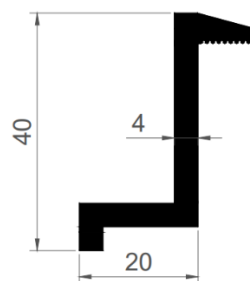
Wt-1.700 Kg/12'

SEC NO 22009



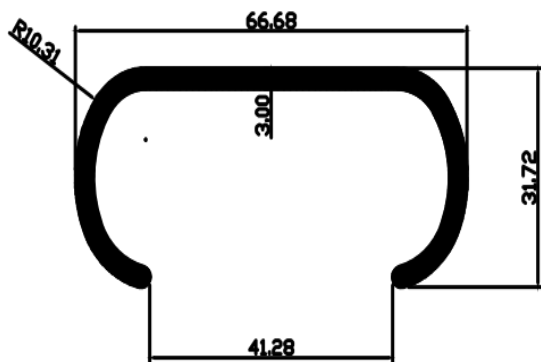
Wt-3.000 Kg/12'

SEC NO 22010



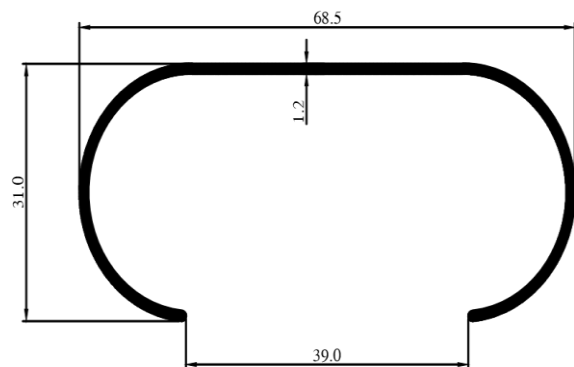
Wt-2.500 Kg/12'

SEC NO 22500



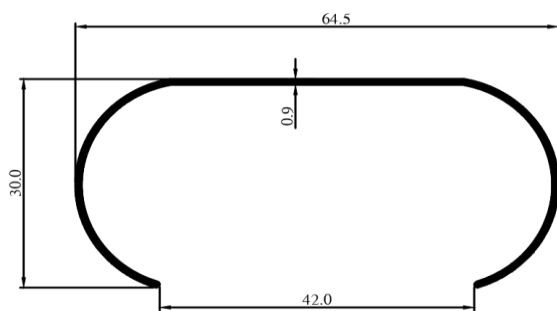
Wt-3.550 Kg/12'

SEC NO 22501



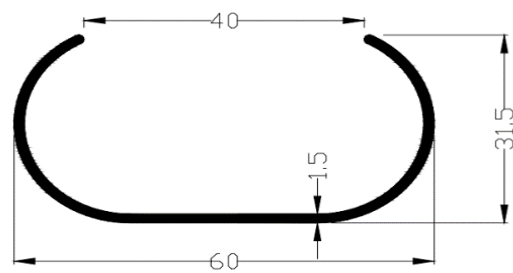
Wt-1.520 Kg/12'

SEC NO 22502



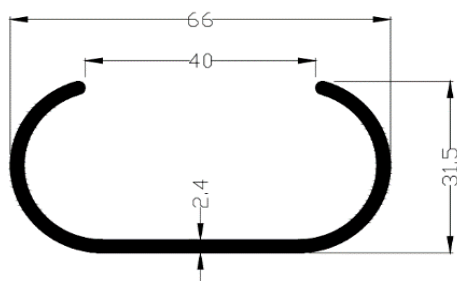
Wt-0.950 Kg/12'

SEC NO 22503



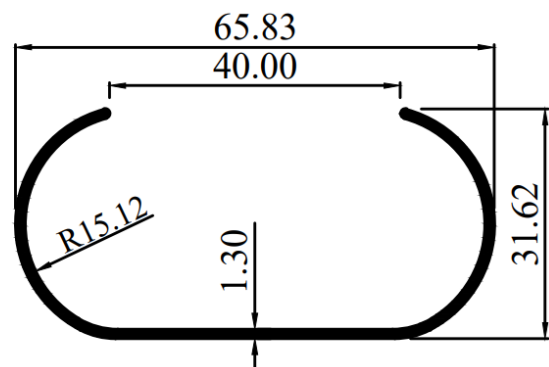
Wt-1.650 Kg/12'

SEC NO 22504



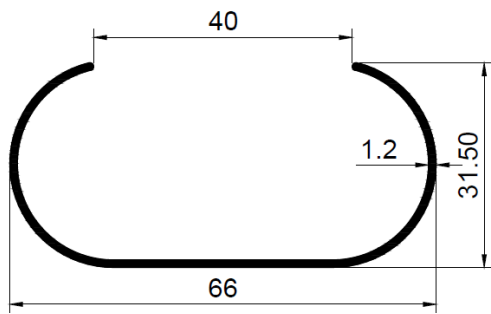
Wt-2.850 Kg/12'

SEC NO 22505



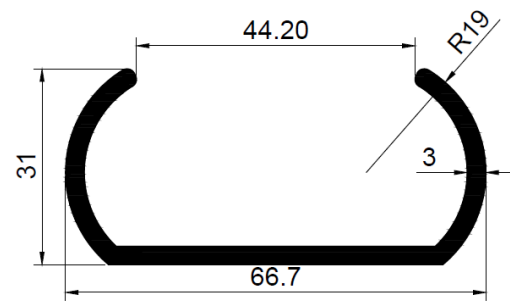
Wt-1.580 Kg/12'

SEC NO 22506



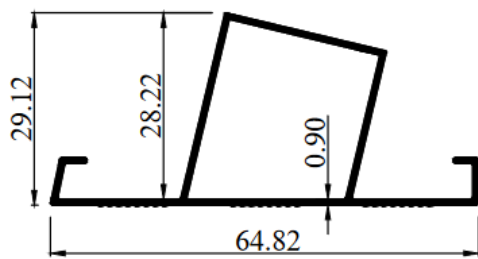
Wt-1.460 Kg/12'

SEC NO 22507



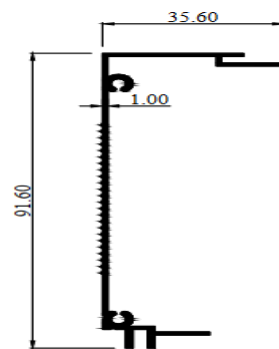
Wt-3.520 Kg/12'

SEC NO 22551



Wt-1.400 Kg/12'

SEC NO 22552



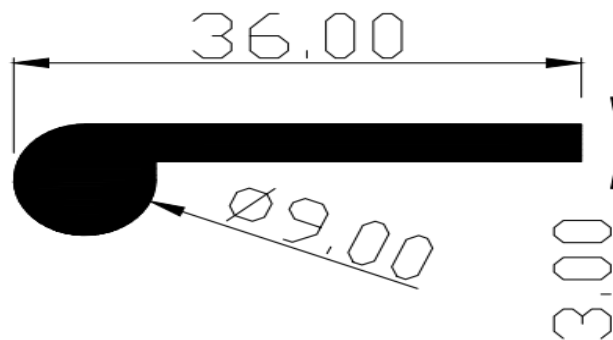
Wt-1.950 Kg/12'

SEC NO 22600



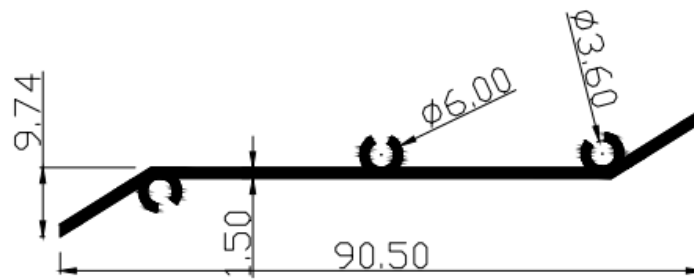
Wt-1.170 Kg/12'

SEC NO 22601



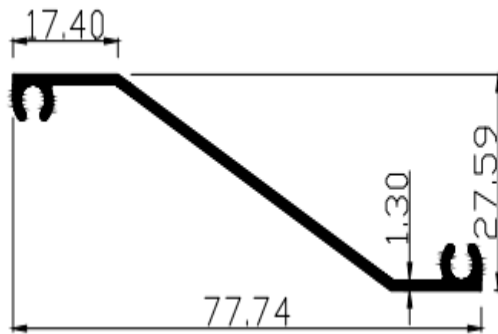
Wt-1.460 Kg/12'

SEC NO 23000



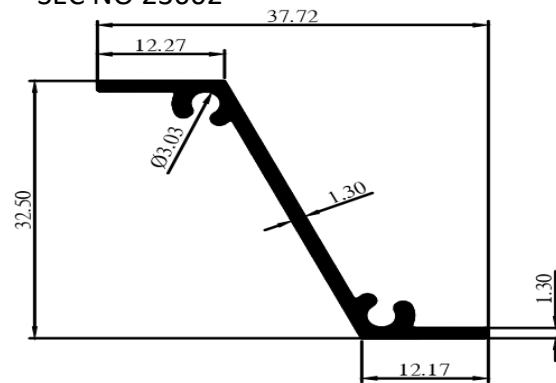
Wt-1.700 Kg/12'

SEC NO 23001



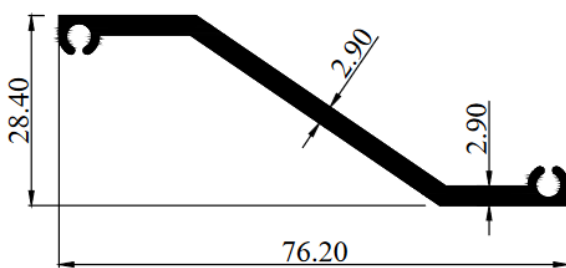
Wt-1.330 Kg/12'

SEC NO 23002



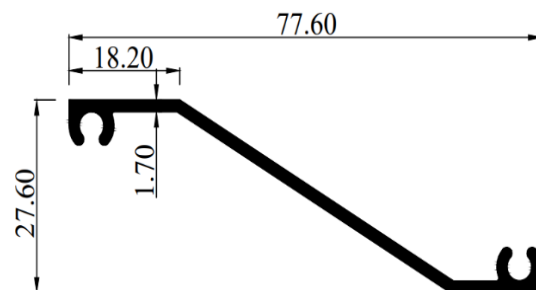
Wt-0.900 Kg/12'

SEC NO 23003



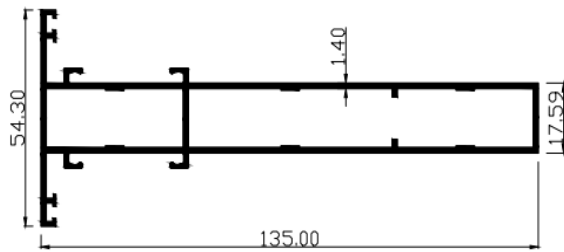
Wt-2.450 Kg/12'

SEC NO 23004



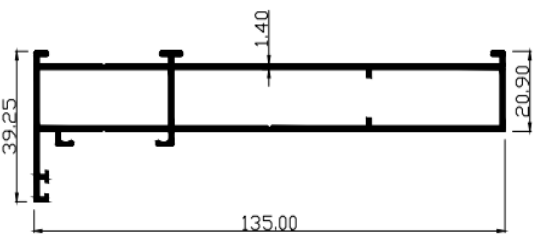
Wt-1.770 Kg/12'

SEC NO 23500



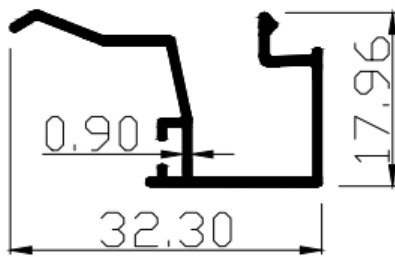
Wt-5.500 Kg/12'

SEC NO 23501



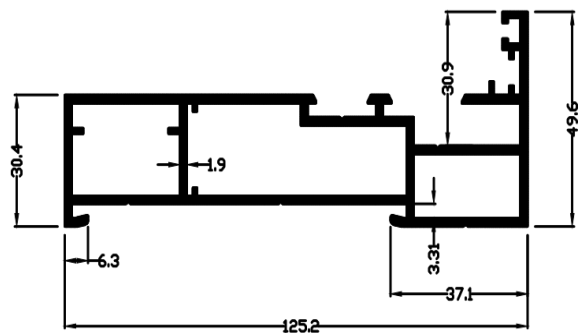
Wt-5.120 Kg/12'

SEC NO 23502



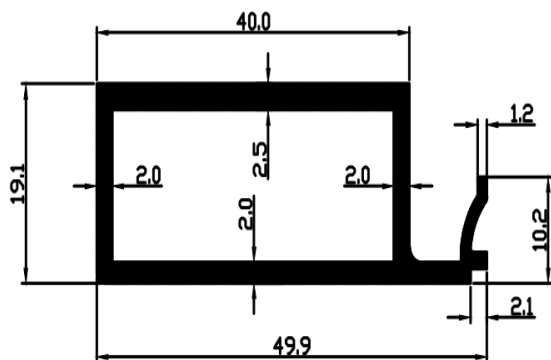
Wt-0.700 Kg/12'

SEC NO 23503



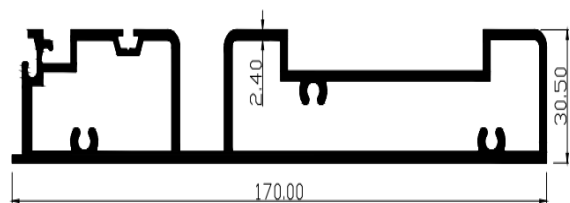
Wt-7.960 Kg/12'

SEC NO 23504



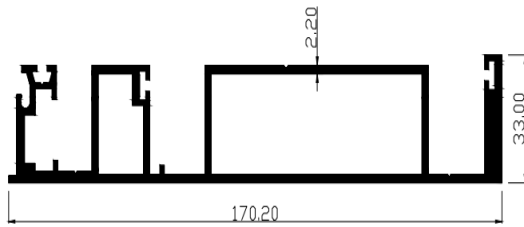
Wt-2.625 Kg/12'

SEC NO 23505



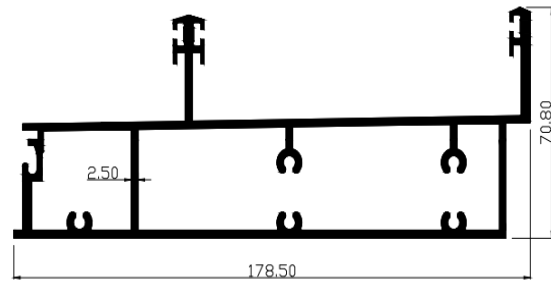
Wt-11.480Kg/12'

SEC NO 23506



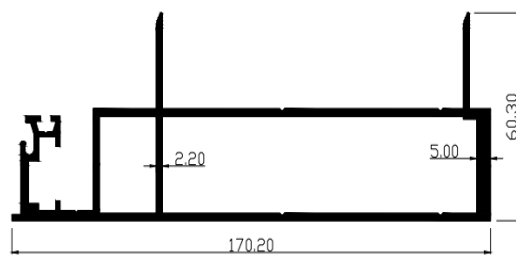
Wt-11.120 Kg/12'

SEC NO 23507



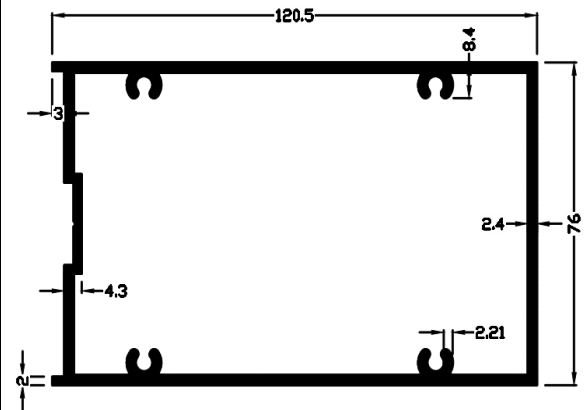
Wt-15.000 Kg/12'

SEC NO 23508



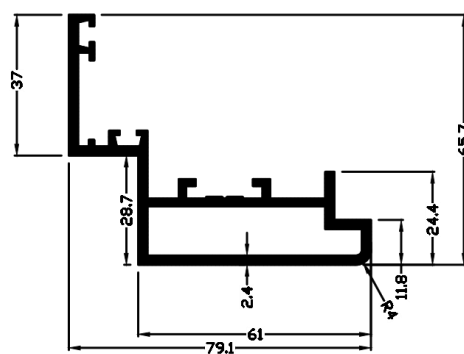
Wt- 11.850 Kg/12'

SEC NO 23509



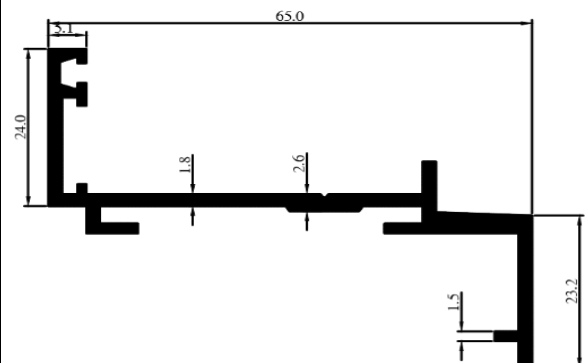
Wt- 10.150 Kg/12'

SEC NO 23510



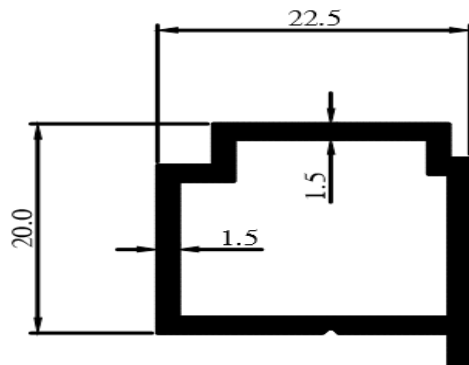
Wt-5.670 Kg/12'

SEC NO 23511



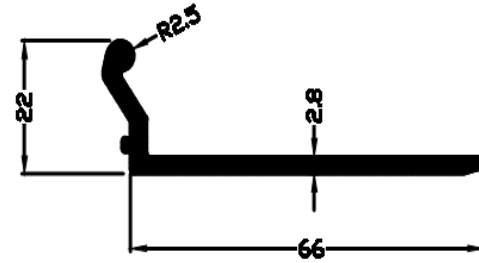
Wt-2.690 Kg/12'

SEC NO 23512



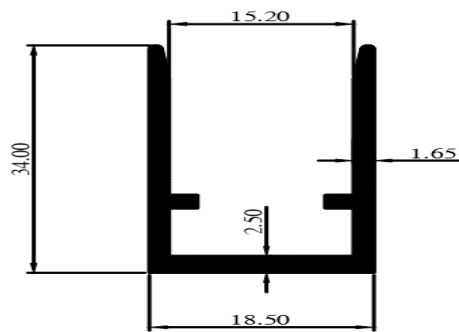
Wt-1.200 Kg/12'

SEC NO 23513



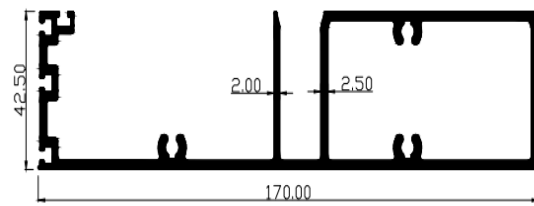
Wt-0.622 Kg/12'

SEC NO 23514



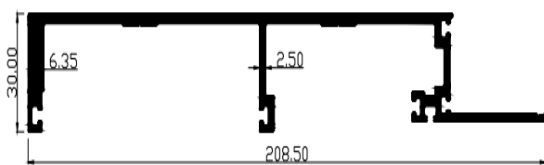
Wt-1.520 Kg/12'

SEC NO 23516



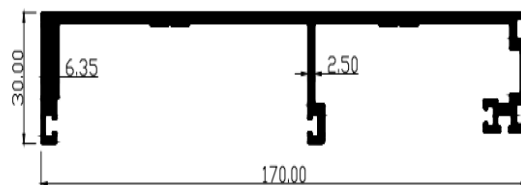
Wt-11.177 Kg/12'

SEC NO 23517



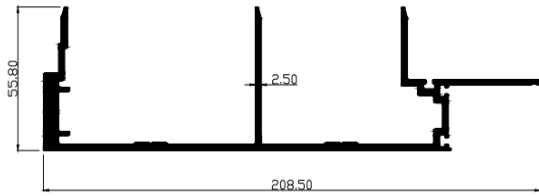
Wt-8.600 Kg/12'

SEC NO 23518



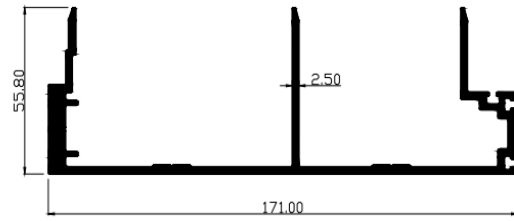
Wt-7.857 Kg/12'

SEC NO 23519



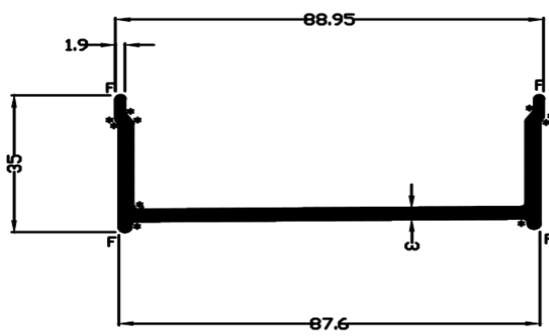
Wt-10.890 Kg/12'

SEC NO 23520



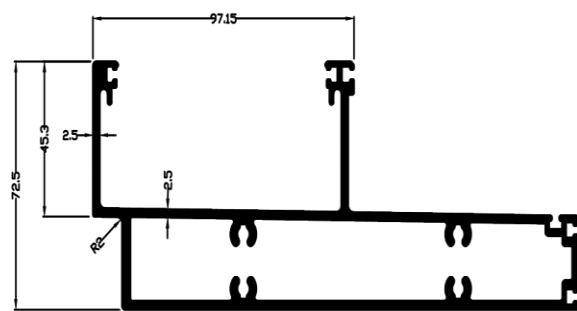
Wt-10.124 Kg/12'

SEC NO 23521



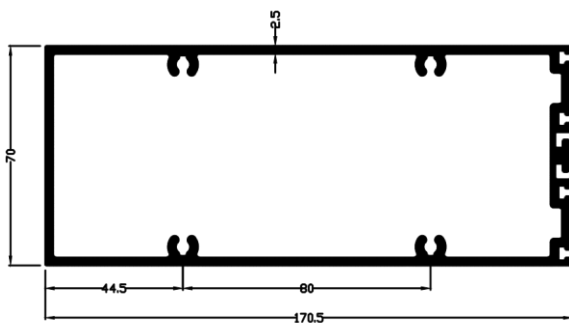
Wt-4.290 Kg/12'

SEC NO 23522



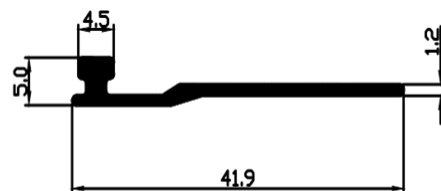
Wt-14.500 Kg/12'

SEC NO 23523



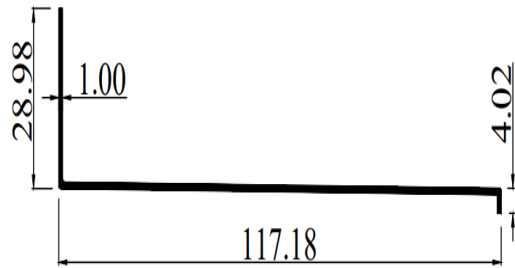
Wt-13.720 Kg/12'

SEC NO 23524



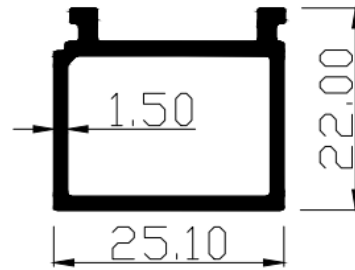
Wt-0.600 Kg/12'

SEC NO 23525



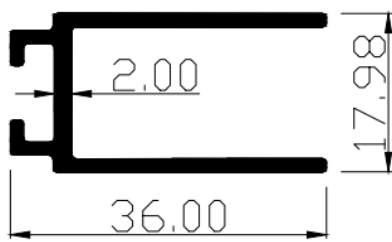
Wt-1.400 Kg/12'

SEC NO 23526



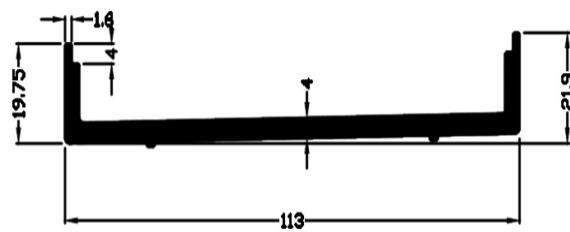
Wt-1.300 Kg/12'

SEC NO 23527



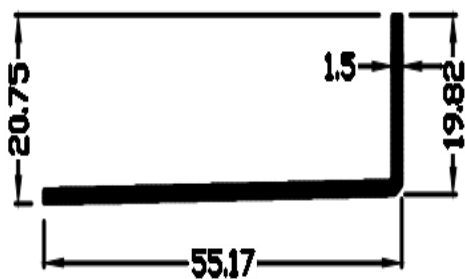
Wt-1.430 Kg/12'

SEC NO 23528



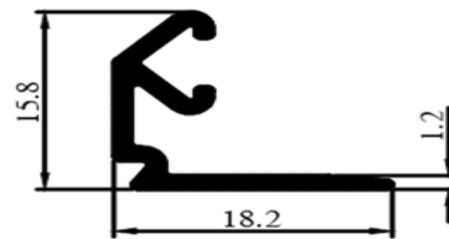
Wt-5.400 Kg/12'

SEC NO 23529



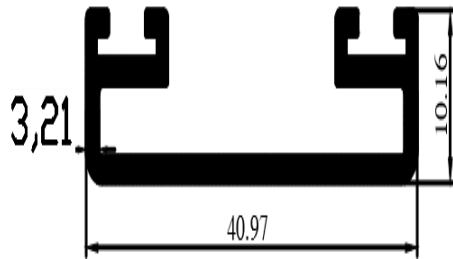
Wt-1.000 Kg/12'

SEC NO 23530



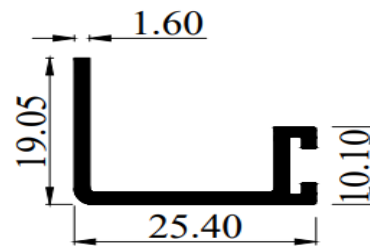
Wt-0.510 Kg/12'

SEC NO 23531



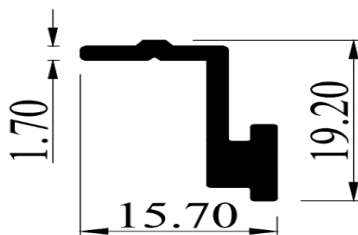
Wt-1.300 Kg/12'

SEC NO 23532



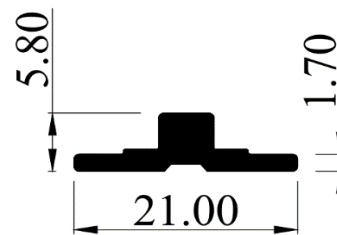
Wt-0.860 Kg/12'

SEC NO 23533



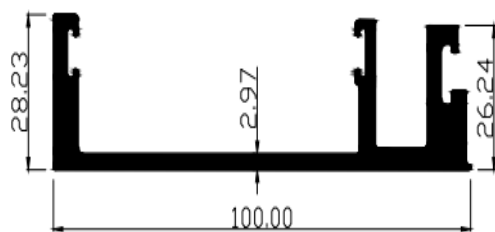
Wt-0.750 Kg/12'

SEC NO 23534



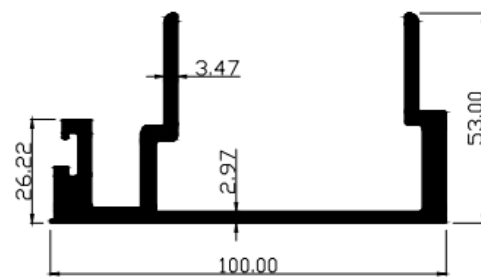
Wt-0.560 Kg/12'

SEC NO 23535



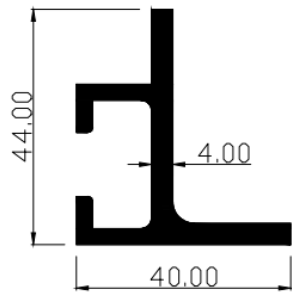
Wt-6.680 Kg/12'

SEC NO 23536



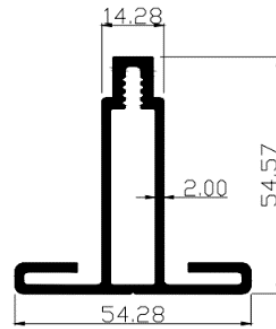
Wt-9.000 Kg/12'

SEC NO 23537



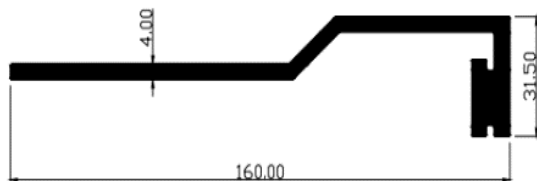
Wt-3.800 Kg/12'

SEC NO 23538



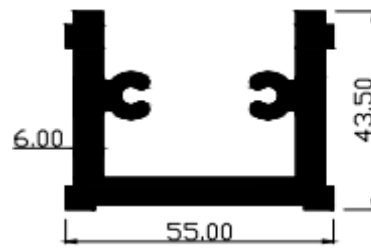
Wt-4.140 Kg/12'

SEC NO 23539



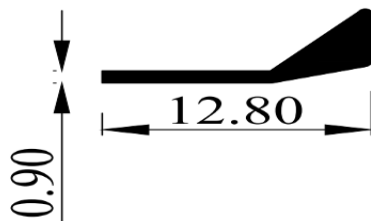
Wt-9.100 Kg/12'

SEC NO 23540



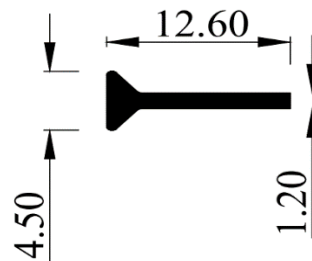
Wt-8.930 Kg/12'

SEC NO 23541



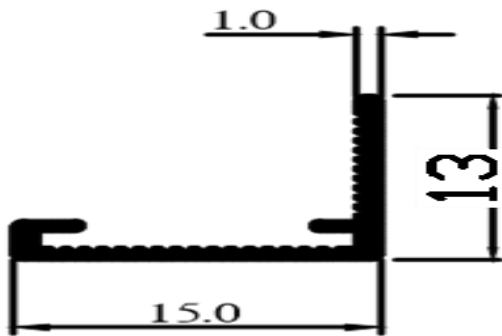
Wt-0.190 Kg/12'

SEC NO 23542



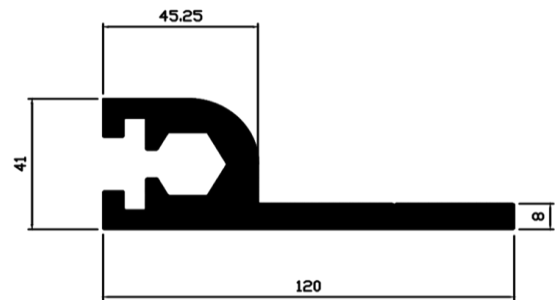
Wt-0.190 Kg/12'

SEC NO 23543



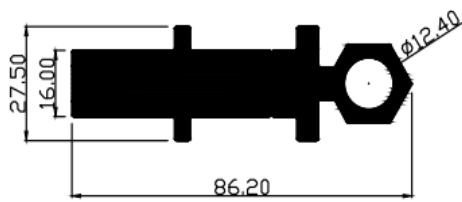
Wt-0.280 Kg/12'

SEC NO 23544



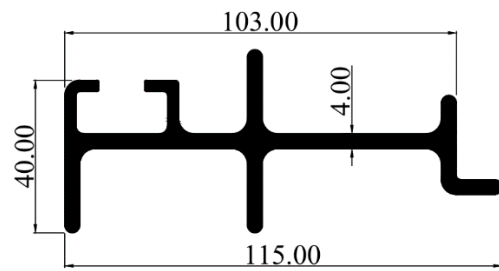
Wt-16.800 Kg/12'

SEC NO 23545



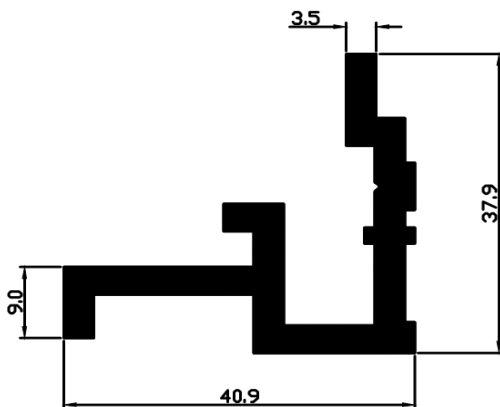
Wt-12.980 Kg/12'

SEC NO 23546



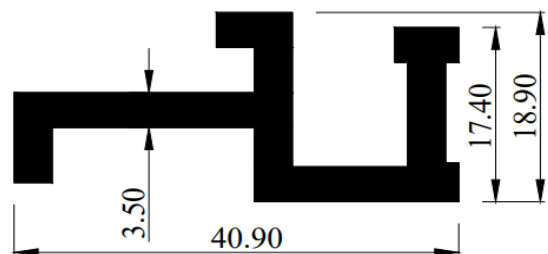
Wt-9.270 Kg/12'

SEC NO 23547



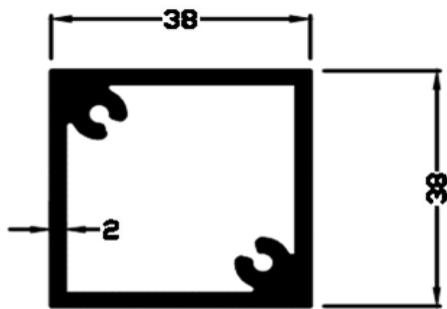
Wt-3.650 Kg/12'

SEC NO 23548



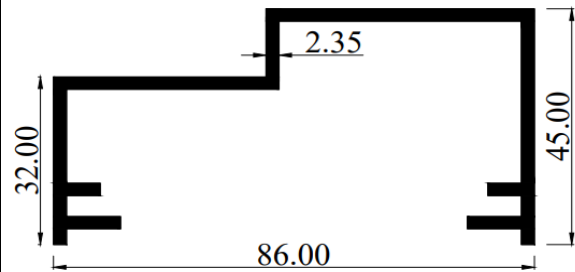
Wt-2.800 Kg/12'

SEC NO 23549



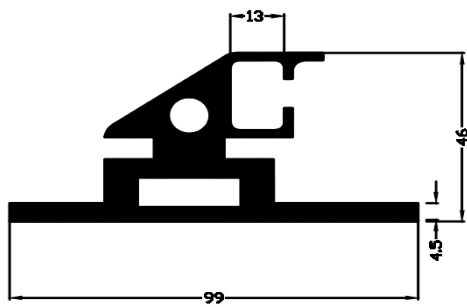
Wt-3.700 Kg/12'

SEC NO 23550



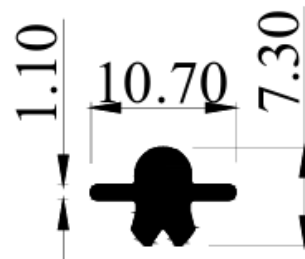
Wt-4.660 Kg/12'

SEC NO 23551



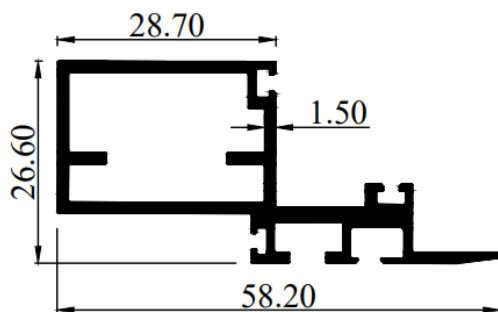
Wt-12.700 Kg/12'

SEC NO 23552



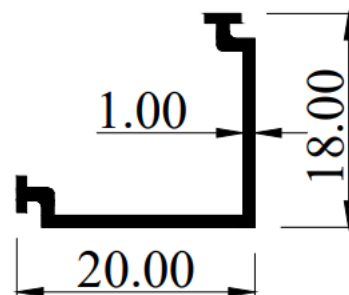
Wt-0.330 Kg/12'

SEC NO 23553



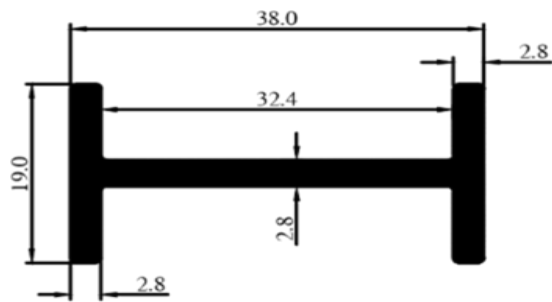
Wt-2.500 Kg/12'

SEC NO 23554



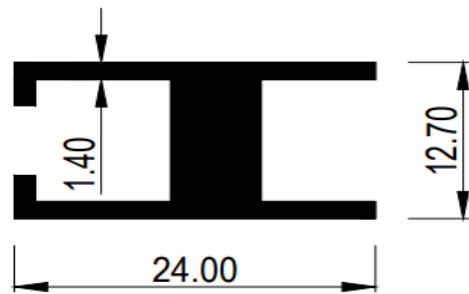
Wt-0.430 Kg/12'

SEC NO 23555



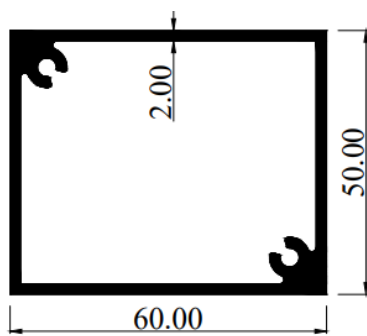
Wt-1.930 Kg/12'

SEC NO 23556



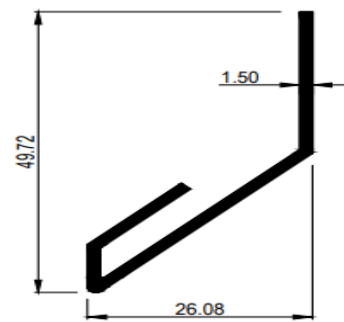
Wt-1.300 Kg/12'

SEC NO 23557



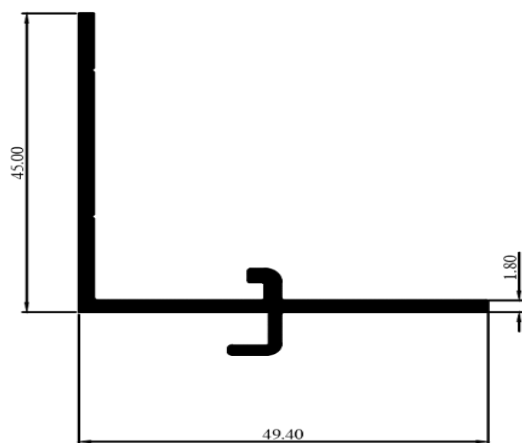
Wt-4.900 Kg/12'

SEC NO 23558



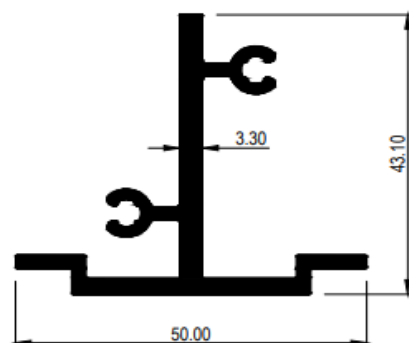
Wt-1.200 Kg/12'

SEC NO 23559



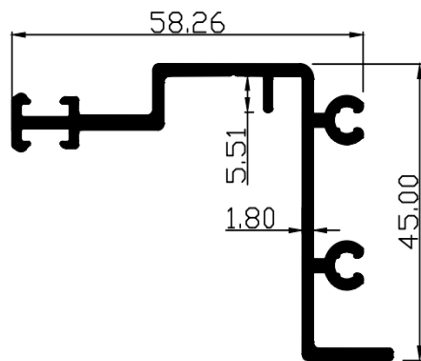
Wt-1.900 Kg/12'

SEC NO 23560



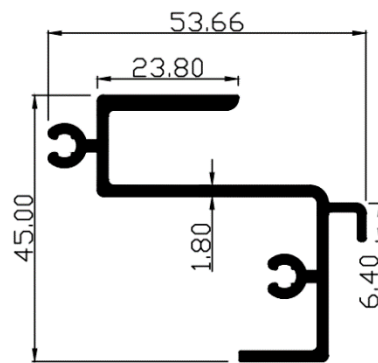
Wt-3.220 Kg/12'

SEC NO 23561



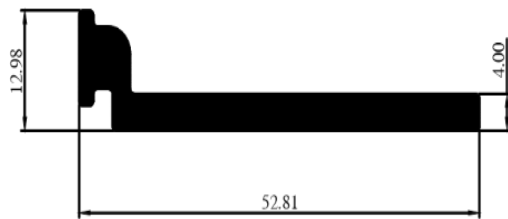
Wt-2.900 Kg/12'

SEC NO 23562



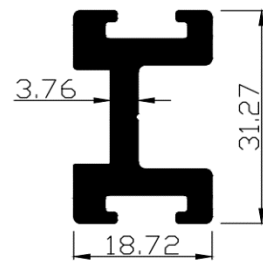
Wt-2.900 Kg/12'

SEC NO 23563



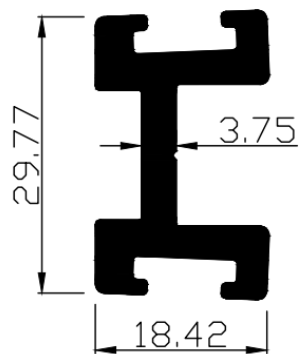
Wt-2.400 Kg/12'

SEC NO 23564



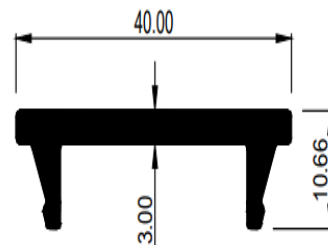
Wt-2.740 Kg/12'

SEC NO 23565



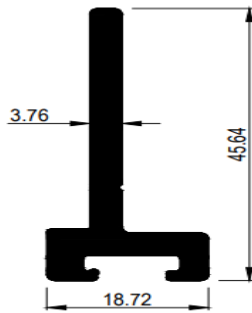
Wt-2.570 Kg/12'

SEC NO 23566



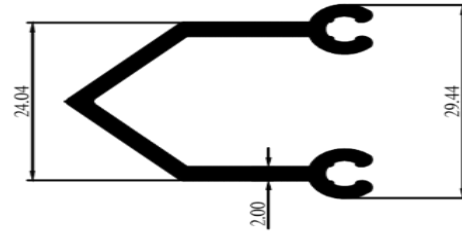
Wt-1.600 Kg/12'

SEC NO 23567



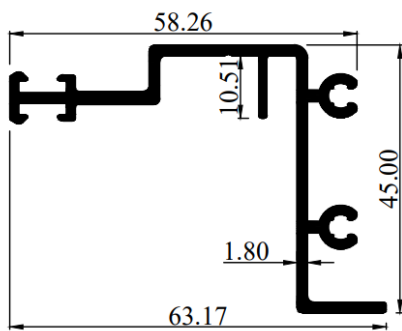
Wt-2.470 Kg/12'

SEC NO 23568



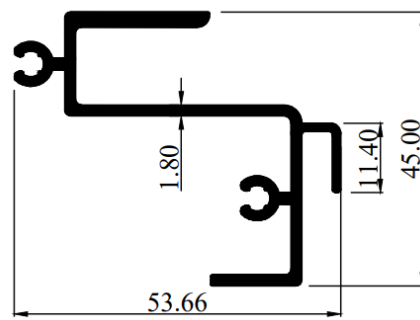
Wt-1.530 Kg/12'

SEC NO 23569



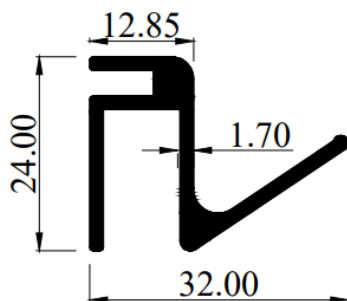
Wt-2.980Kg/12'

SEC NO 23570



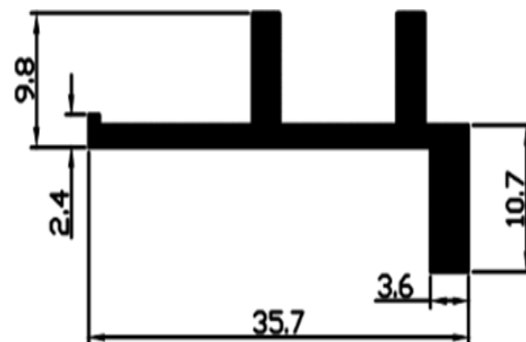
Wt-2.960 Kg/12'

SEC NO 23571



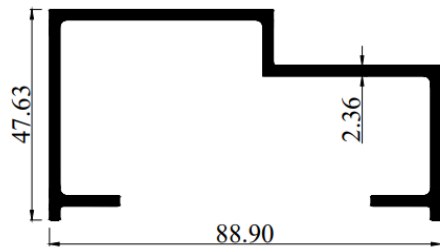
Wt-1.600 Kg/12'

SEC NO 23572



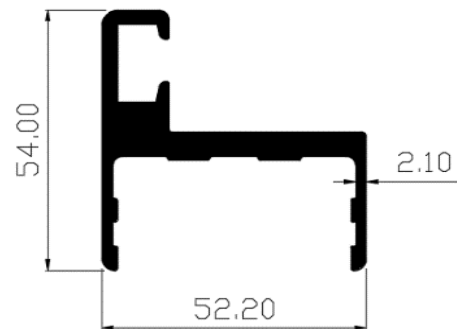
Wt-1.300 Kg/12'

SEC NO 23575



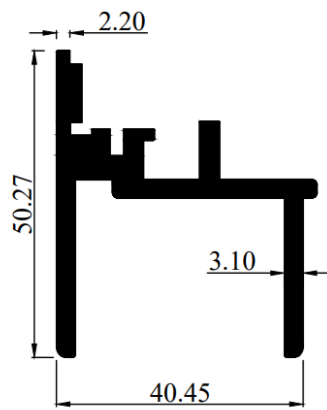
Wt-4.840 Kg/12'

SEC NO 23576



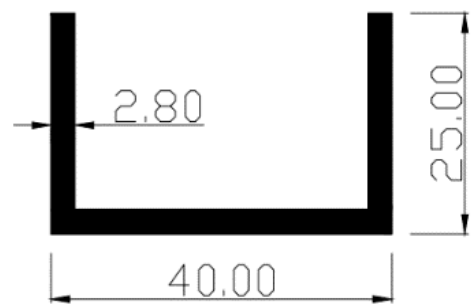
Wt-5.630 Kg/12'

SEC NO 23577



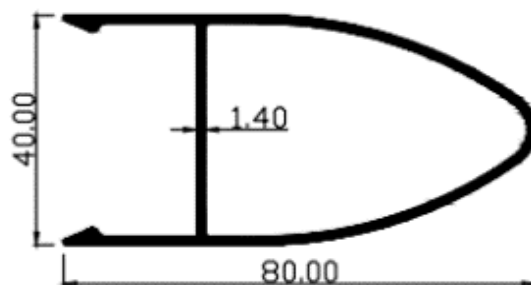
Wt-4.550 Kg/12'

SEC NO 23578



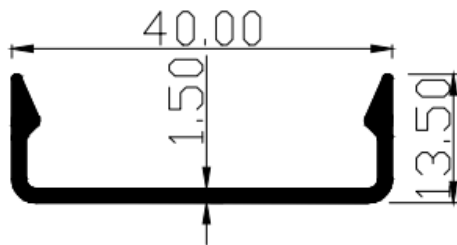
Wt-2.300 Kg/12'

SEC NO 23580



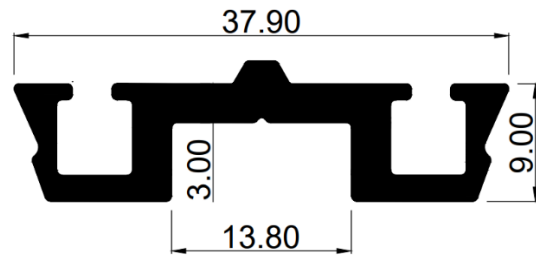
Wt-2.960 Kg/12'

SEC NO 23581



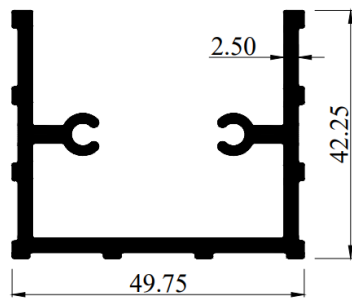
Wt-0.980 Kg/12'

SEC NO 23582



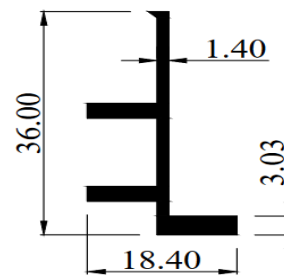
Wt-1.600 Kg/12'

SEC NO 23583



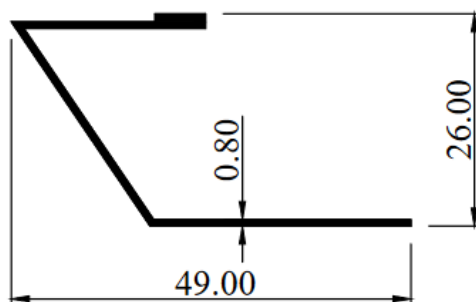
Wt-4.200 Kg/12'

SEC NO 23584



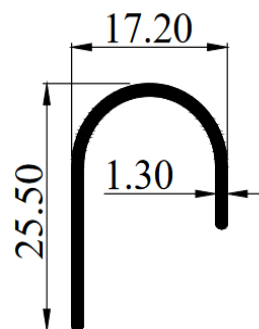
Wt-1.160 Kg/12'

SEC NO 23585



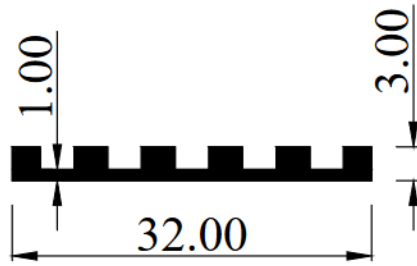
Wt-0.726 Kg/12'

SEC NO 23586



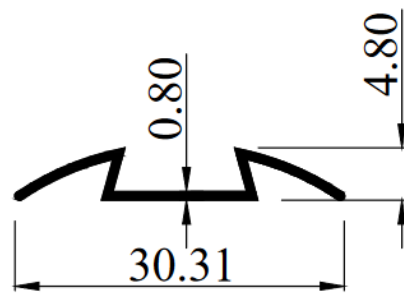
Wt-0.617 Kg/12'

SEC NO 23587



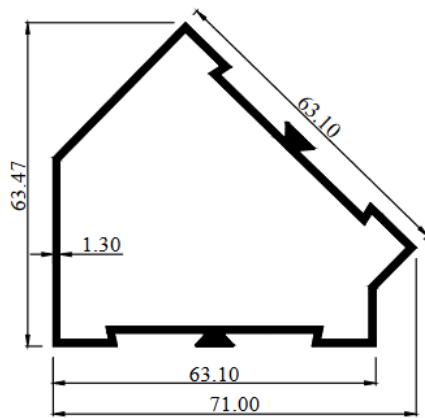
Wt-0.652 Kg/12'

SEC NO 23588



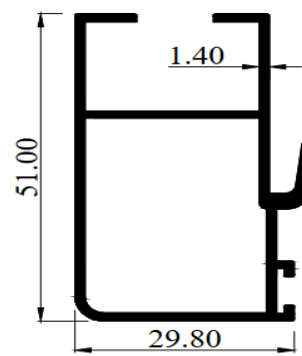
Wt-0.332Kg/12'

SEC NO 23589



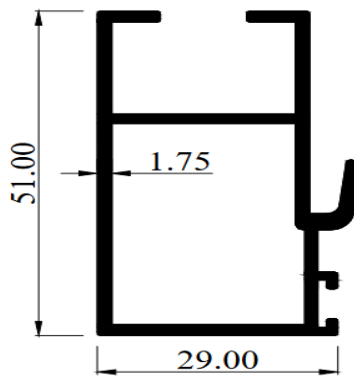
Wt-3.243 Kg/12'

SEC NO 23590



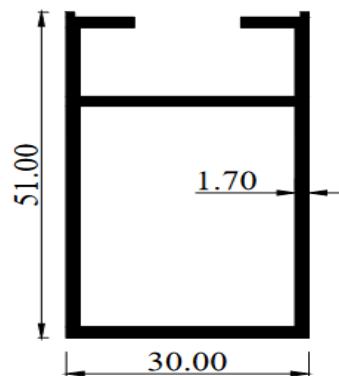
Wt-2.500 Kg/12'

SEC NO 23591



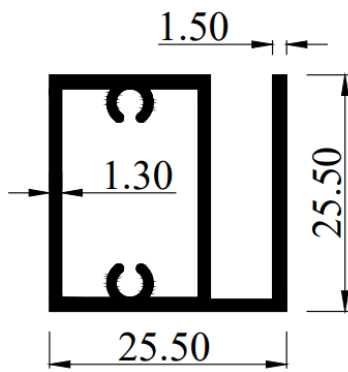
Wt-3.000 Kg/12'

SEC NO 23592



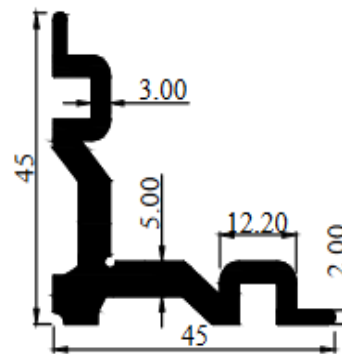
Wt-2.700 Kg/12'

SEC NO 23593



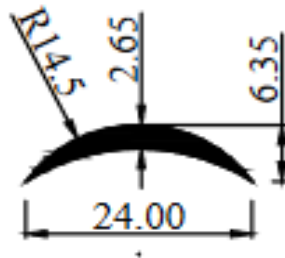
Wt-1.700 Kg/12'

SEC NO 23594



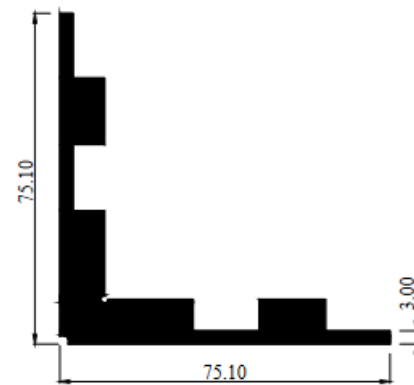
Wt-3.950 Kg/12'

SEC NO 23595



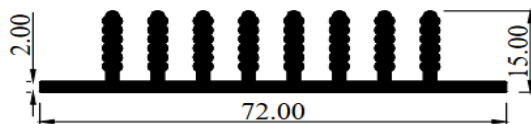
Wt-0.450 Kg/12'

SEC NO 23596



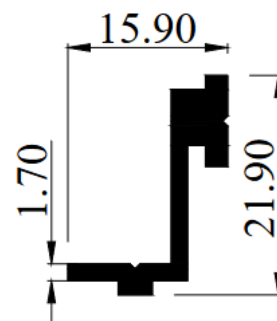
Wt-9.820 Kg/12'

SEC NO 23597



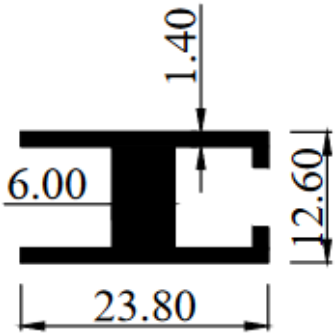
Wt-4.000 Kg/12'

SEC NO 23598



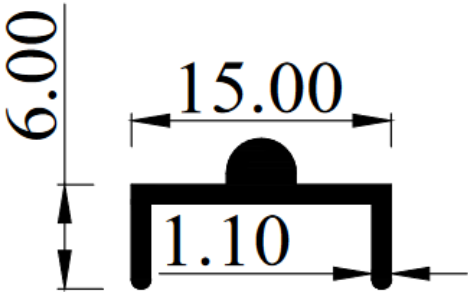
Wt-0.810 Kg/12'

SEC NO 23599



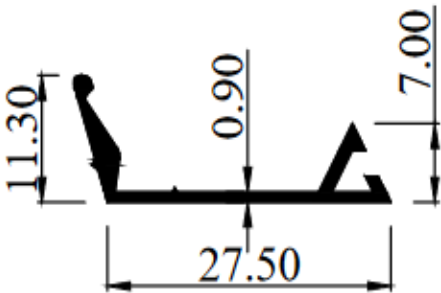
Wt-1.280 Kg/12'

SEC NO 23600



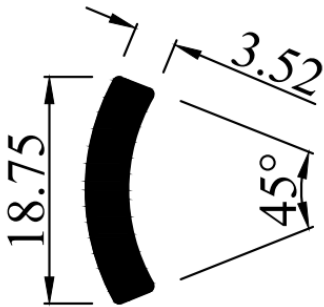
Wt-0.350 Kg/12'

SEC NO 23601



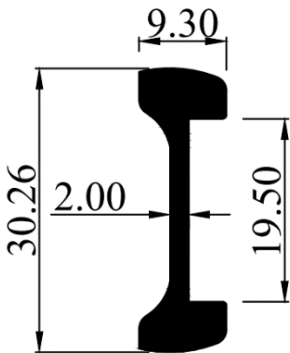
Wt-0.500 Kg/12'

SEC NO 23602



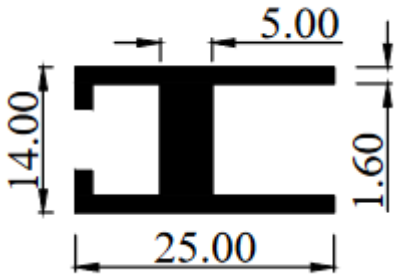
Wt-0.640 Kg/12'

SEC NO 23603



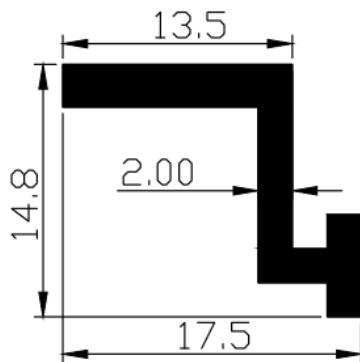
Wt-1.290 Kg/12'

SEC NO 23604



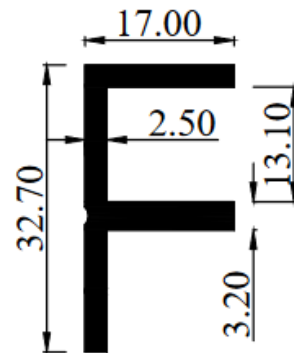
Wt-1.350 Kg/12'

SEC NO 23605



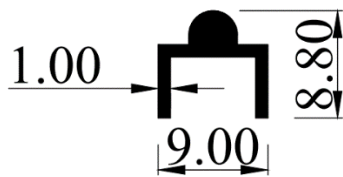
Wt-2.780 Kg/12'

SEC NO 23606



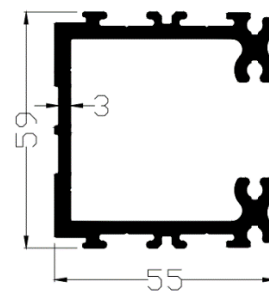
Wt-1.600 Kg/12'

SEC NO 23607



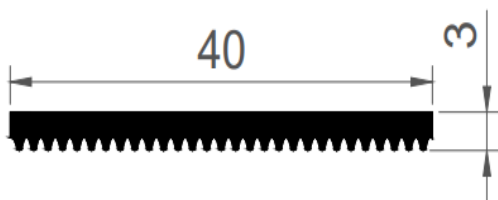
Wt-0.280 Kg/12'

SEC NO 23608



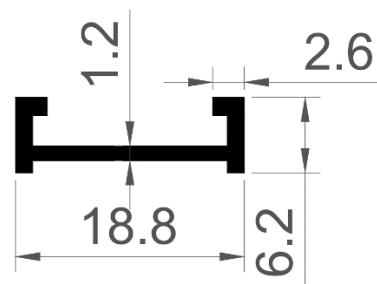
Wt-7.300 Kg/12'

SEC NO 23609



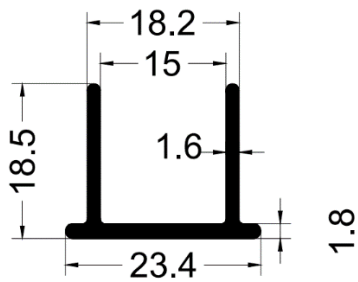
Wt-0.980 Kg/12'

SEC NO 23610



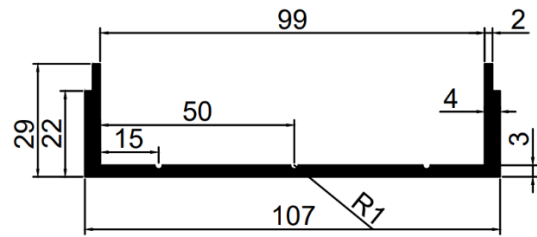
Wt-0.390 Kg/12'

SEC NO 23611



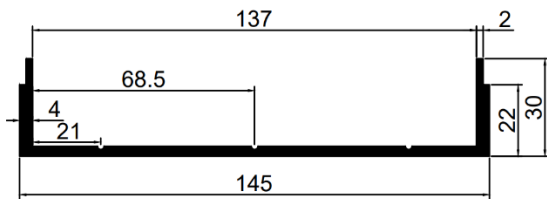
Wt-0.930 Kg/12'

SEC NO 23612



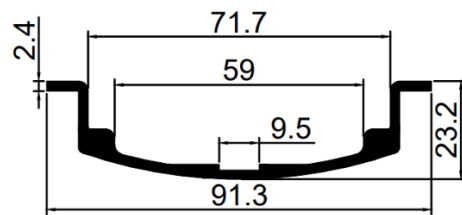
Wt-4.900 Kg/12'

SEC NO 23613



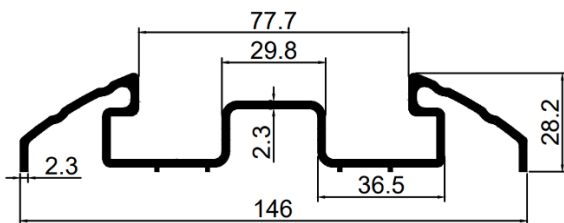
Wt-6.000 Kg/12'

SEC NO 23614



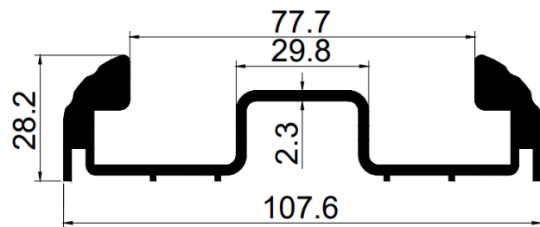
Wt-3.450 Kg/12'

SEC NO 23615



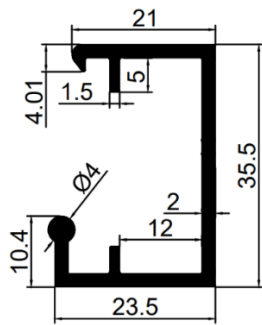
Wt-6.400 Kg/12'

SEC NO 23616



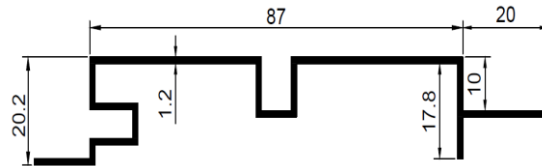
Wt-6.730 Kg/12'

SEC NO 23617



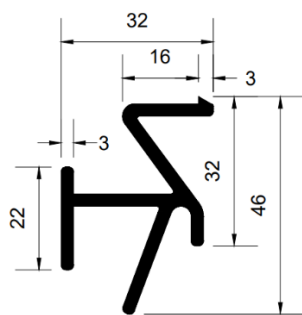
Wt-1.850 Kg/12'

SEC NO 23618



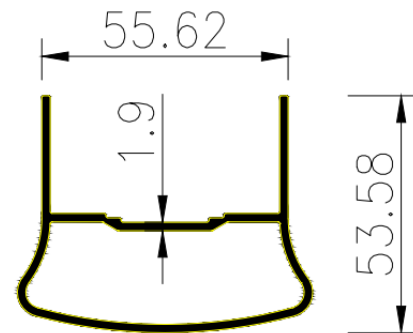
Wt-2.350 Kg/12'

SEC NO 23619



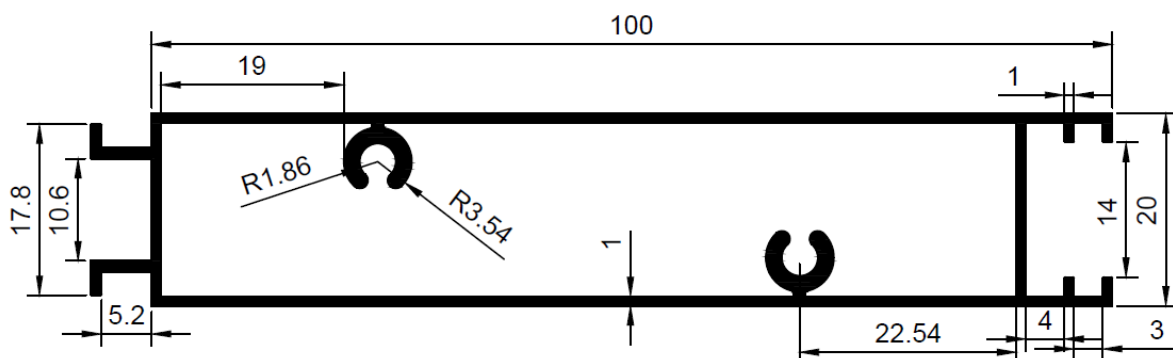
Wt-3.100 Kg/12'

SEC NO 23620



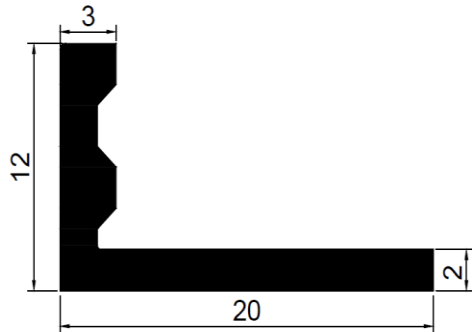
Wt-4.100 Kg/12'

SEC NO 23621



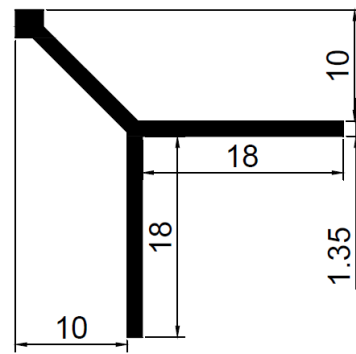
Wt-3.050 Kg/12'

SEC NO 23622



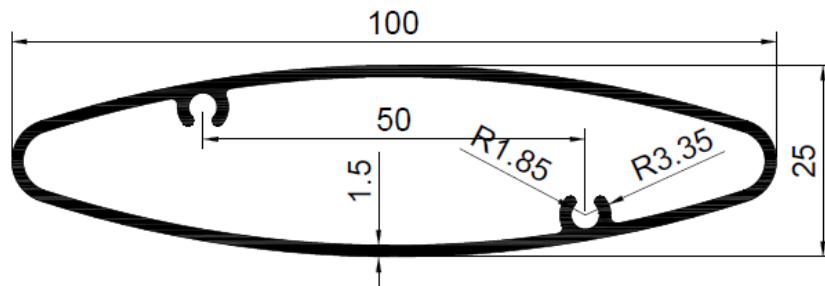
Wt-0.640 Kg/12'

SEC NO 23623



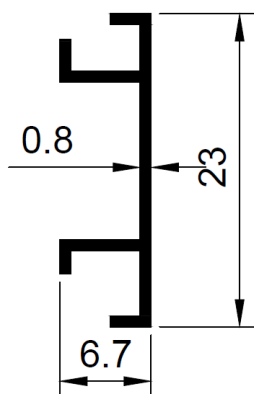
Wt-0.700 Kg/12'

SEC NO 23624



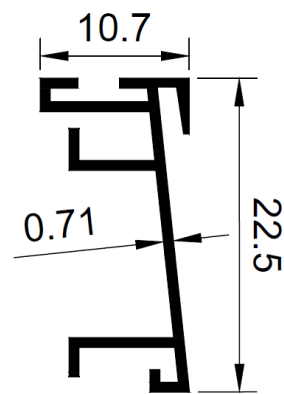
Wt-3.400 Kg/12'

SEC NO 23625



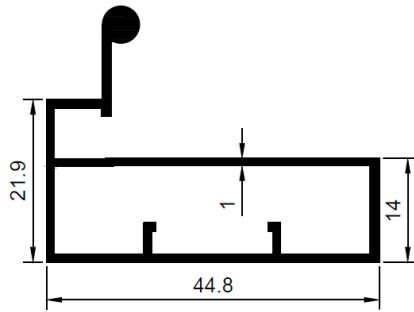
Wt-0.340 Kg/12'

SEC NO 23626



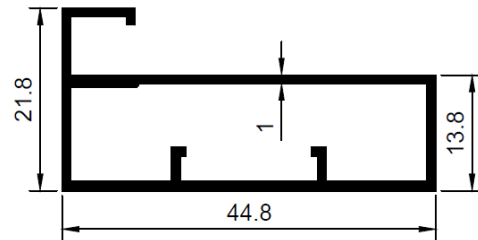
Wt-0.430 Kg/12'

SEC NO 23627



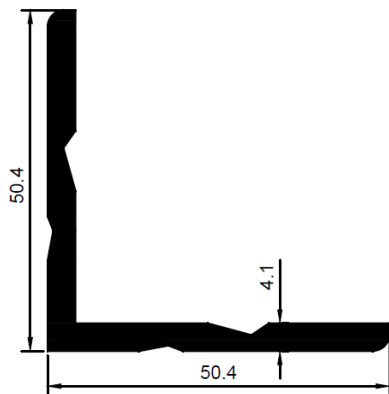
Wt-1.760 Kg/12'

SEC NO 23628



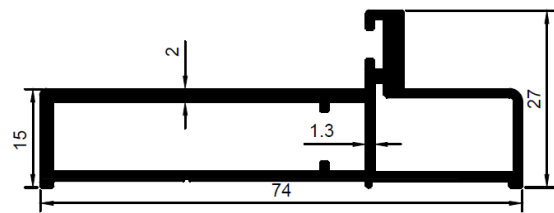
Wt-1.450 Kg/12'

SEC NO 23629



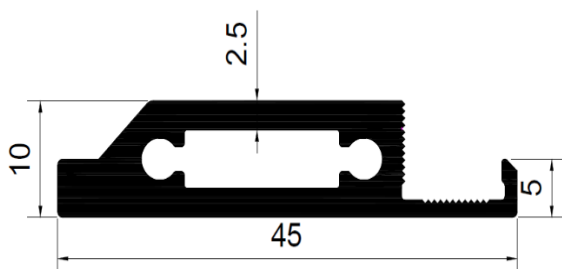
Wt-3.680 Kg/12'

SEC NO 23630



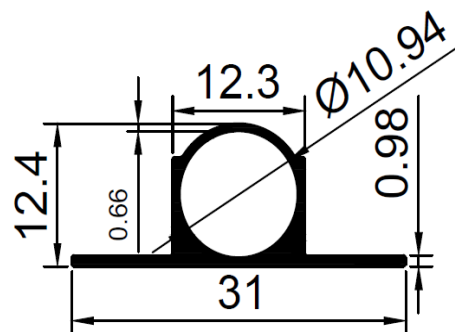
Wt-3.380 Kg/12'

SEC NO 23631



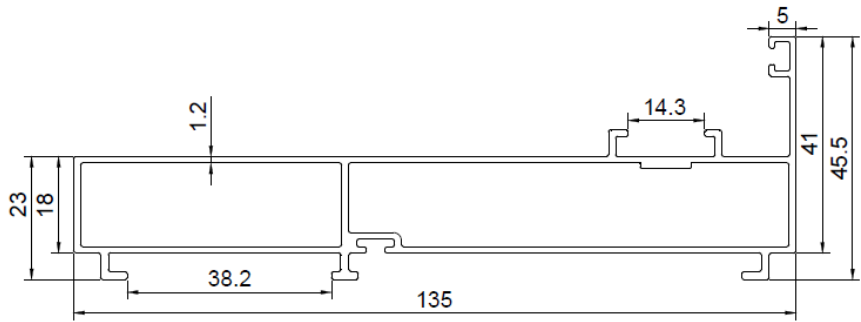
Wt-2.230 Kg/12'

SEC NO 23632



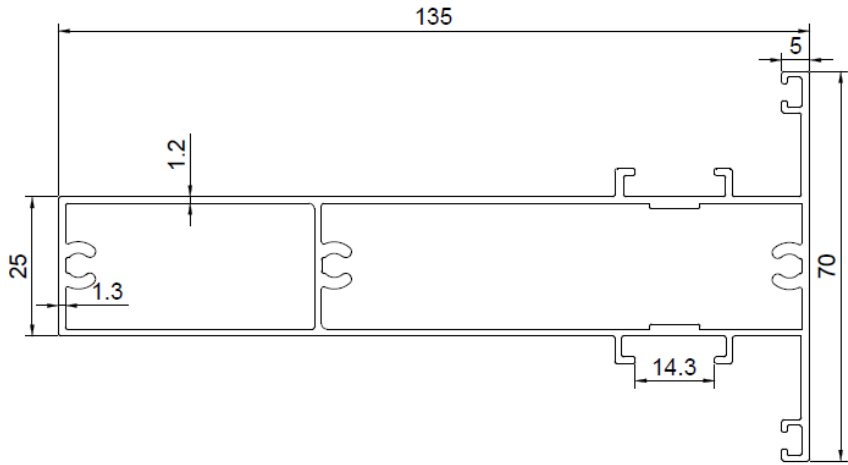
Wt-0.610 Kg/12'

SEC NO 23633



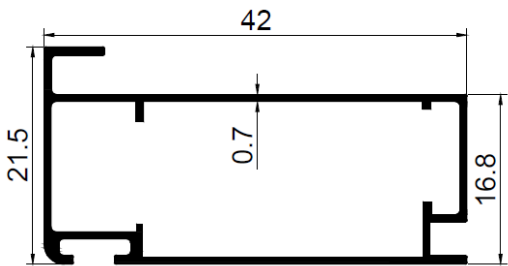
Wt-4.820 Kg/12'

SEC NO 23634



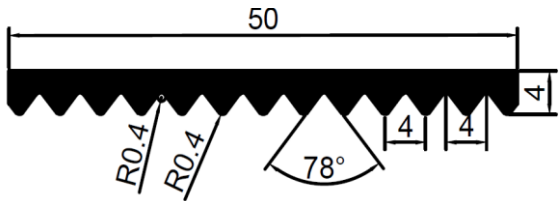
Wt-6.100 Kg/12'

SEC NO 23635



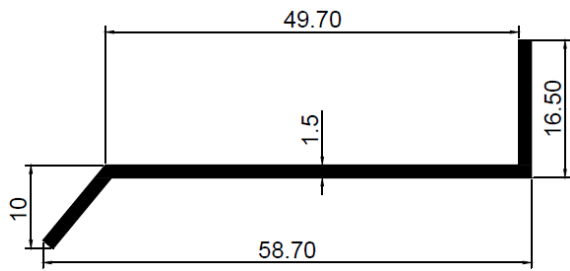
Wt-1.000 Kg/12'

SEC NO 23636



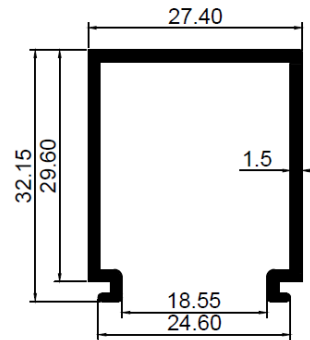
Wt-1.470 Kg/12'

SEC NO 23638



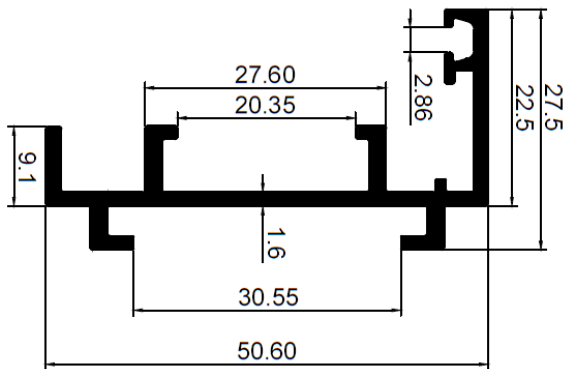
Wt-1.150 Kg/12'

SEC NO 23639



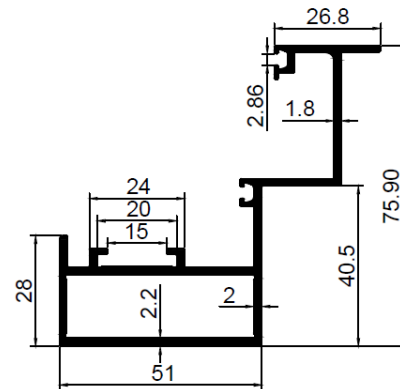
Wt-1.400 Kg/12'

SEC NO 23640



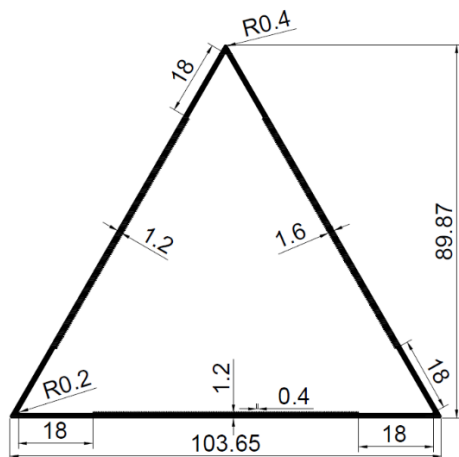
Wt-2.000 Kg/12'

SEC NO 23641



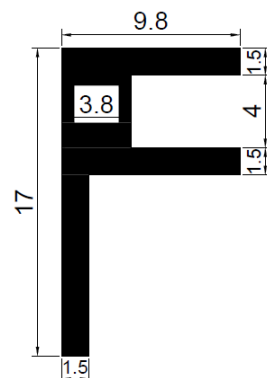
Wt-5.200 Kg/12'

SEC NO 23642



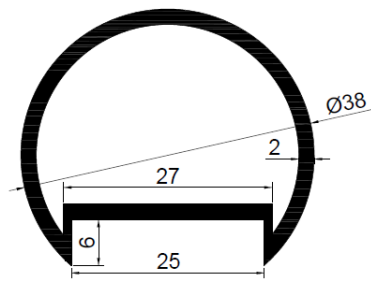
Wt-4.000 Kg/12'

SEC NO 23643



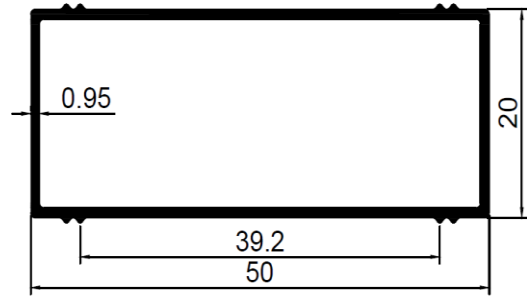
Wt-0.580 Kg/12'

SEC NO 23644



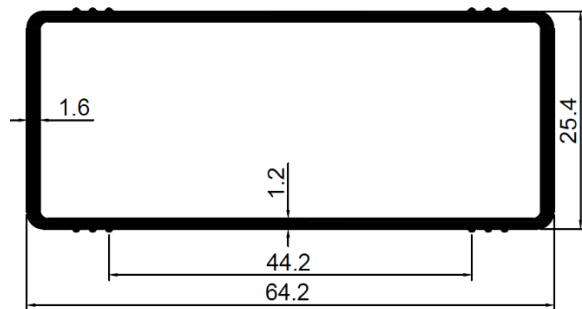
Wt-2.270 Kg/12'

SEC NO 23645



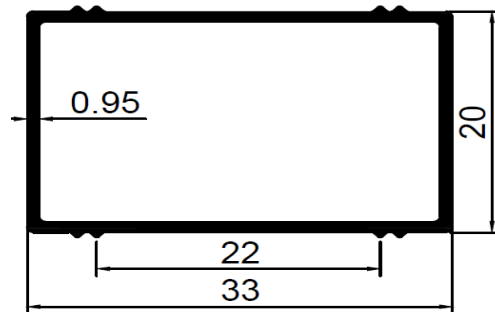
Wt-1.300 Kg/12'

SEC NO 23646



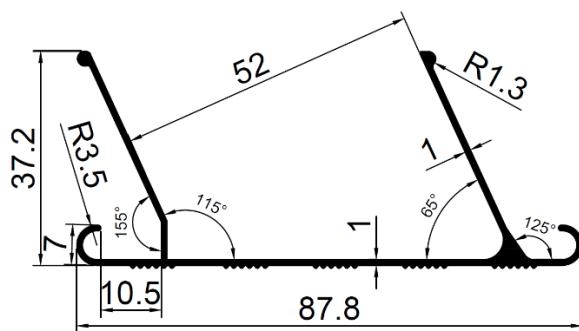
Wt-2.200 Kg/12'

SEC NO 23647



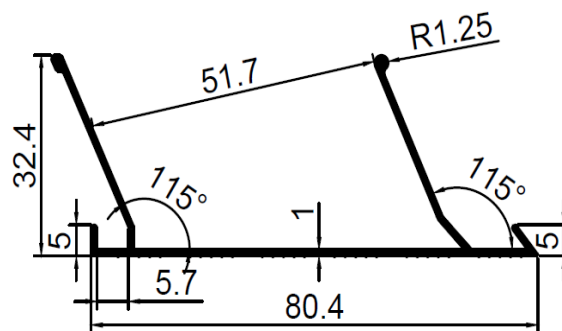
Wt-0.980Kg/12'

SEC NO 23648



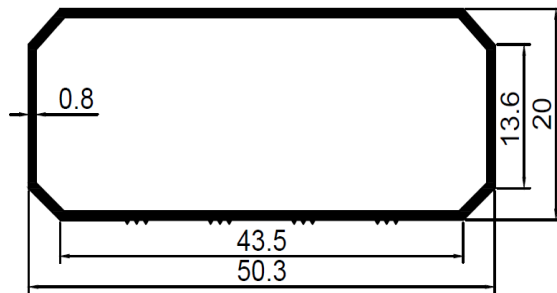
Wt-2.000 Kg/12'

SEC NO 23649



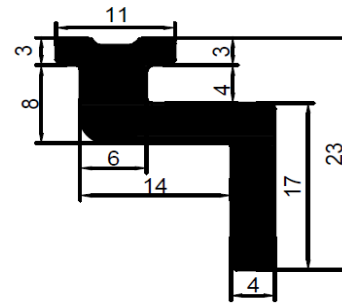
Wt-1.600 Kg/12'

SEC NO 23650



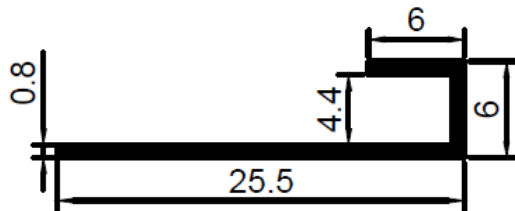
Wt-1.000 Kg/12'

SEC NO 23651



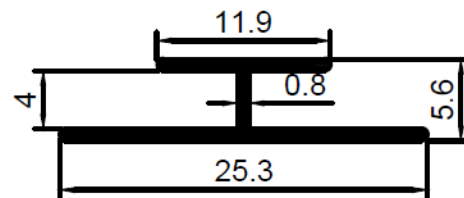
Wt-1.160 Kg/12'

SEC NO 23652



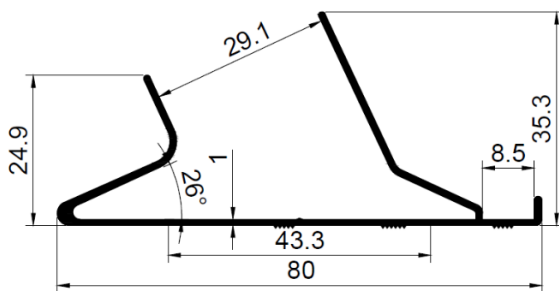
Wt-0.280 Kg/12'

SEC NO 23653



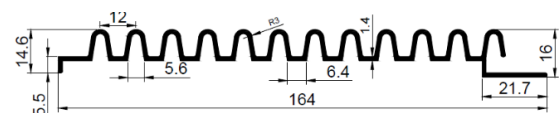
Wt-0.320 Kg/12'

SEC NO 23654



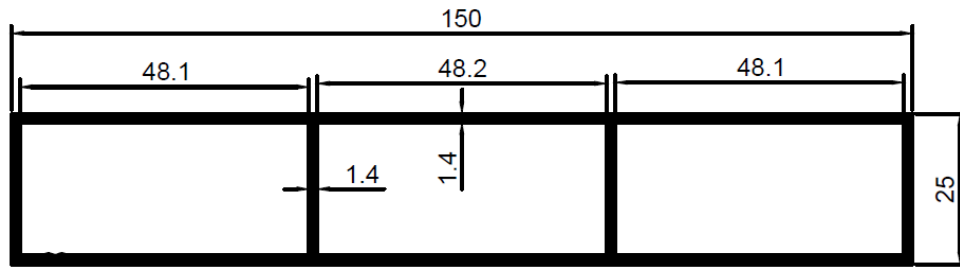
Wt-1.750 Kg/12'

SEC NO 23655



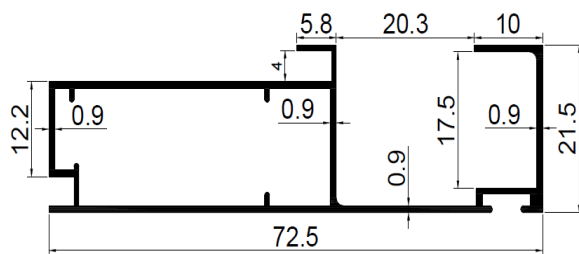
Wt-4.820 Kg/12'

SEC NO 23656



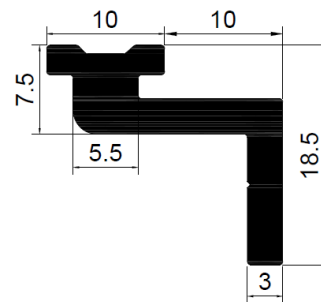
Wt-5.380 Kg/12'

SEC NO 23657



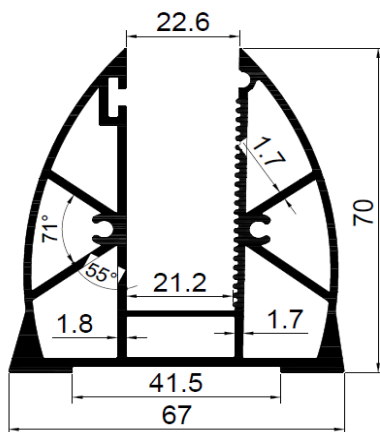
Wt-1.700 Kg/12'

SEC NO 23658



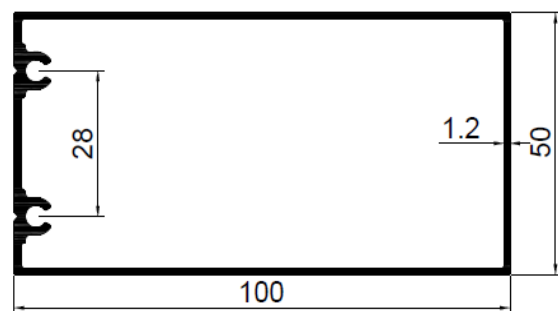
Wt-1.170 Kg/12'

SEC NO 23659



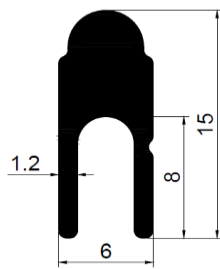
Wt-8.200 Kg/12'

SEC NO 23660



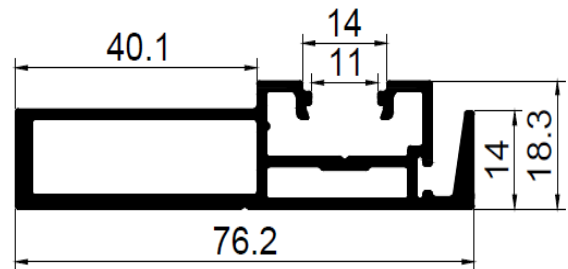
Wt-4.100 Kg/12'

SEC NO 23661



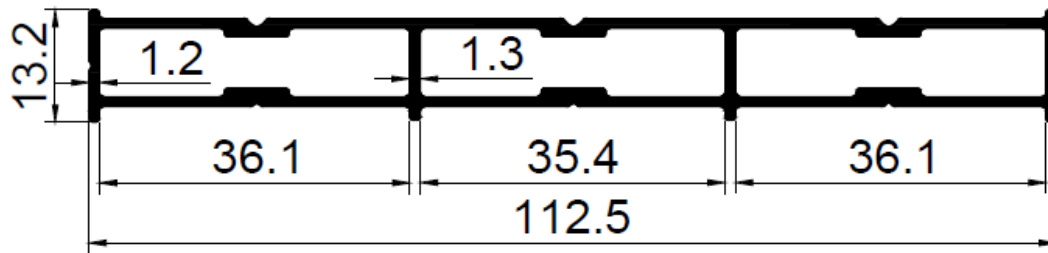
Wt-0.550 Kg/12'

SEC NO 23662



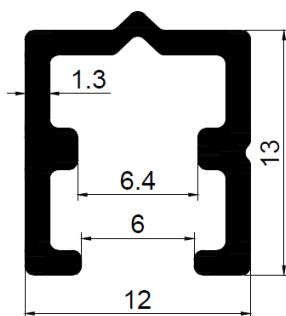
Wt-3.850 Kg/12'

SEC NO 23663



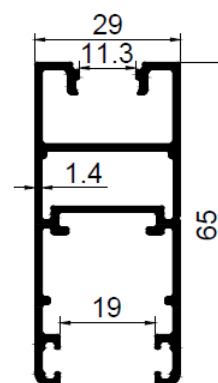
Wt-3.550 Kg/12'

SEC NO 23664



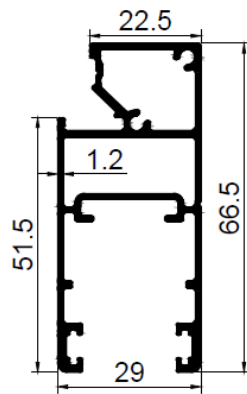
Wt-0.550 Kg/12'

SEC NO 23665



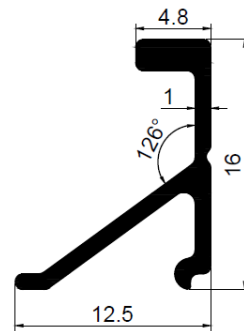
Wt-3.500 Kg/12'

SEC NO 23666



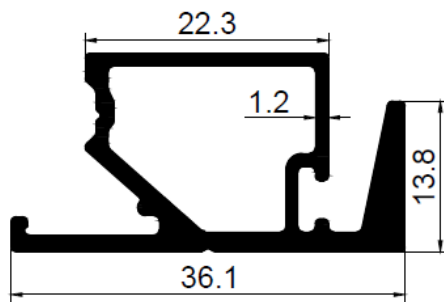
Wt-3.300 Kg/12'

SEC NO 23667



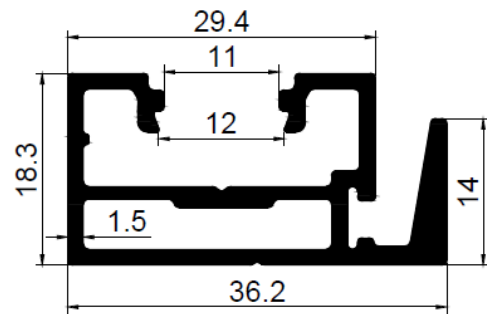
Wt-0.350 Kg/12'

SEC NO 23668



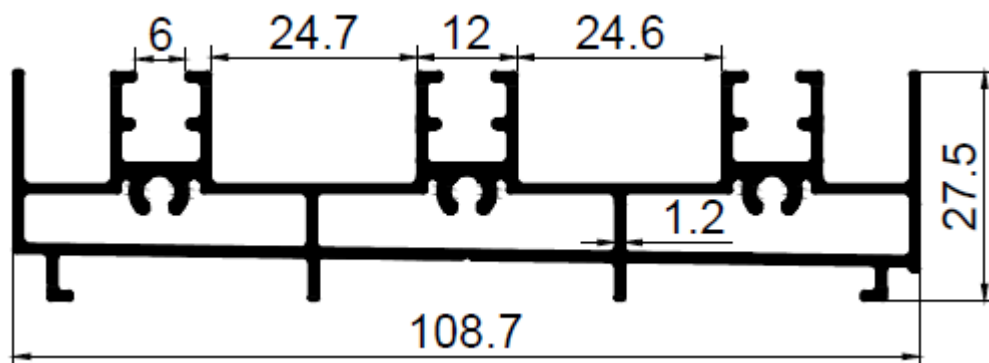
Wt-1.750 Kg/12'

SEC NO 23669



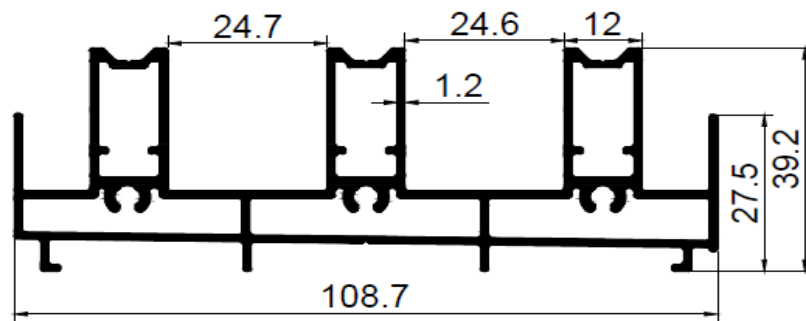
Wt- 2.150Kg/12'

SEC NO 23670



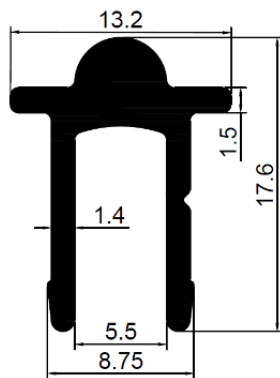
Wt-5.300 Kg/12'

SEC NO 23671



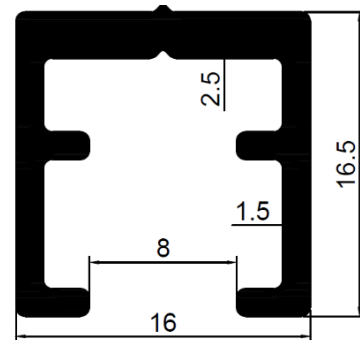
Wt-6.450 Kg/12'

SEC NO 23672



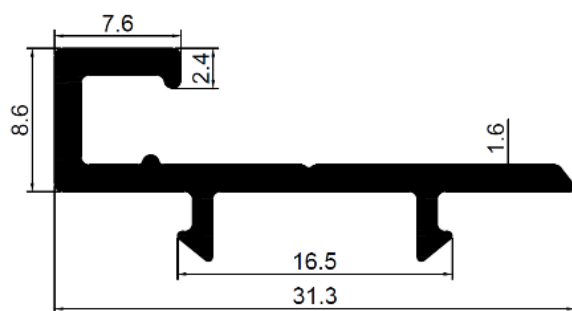
Wt-0.750Kg/12'

SEC NO 23673



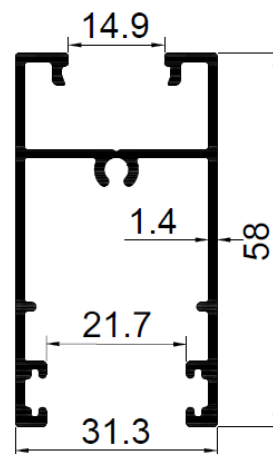
Wt-0.950 Kg/12'

SEC NO 23674



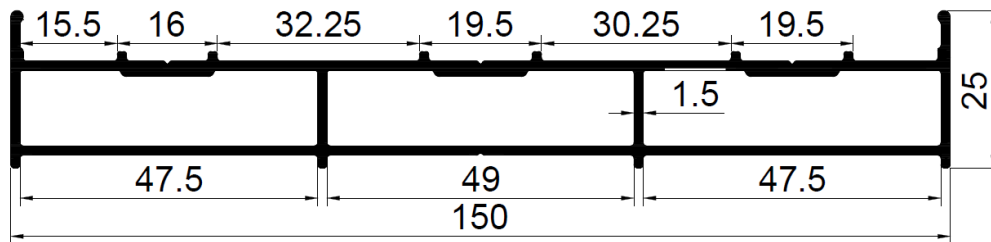
Wt-0.800 Kg/12'

SEC NO 23675



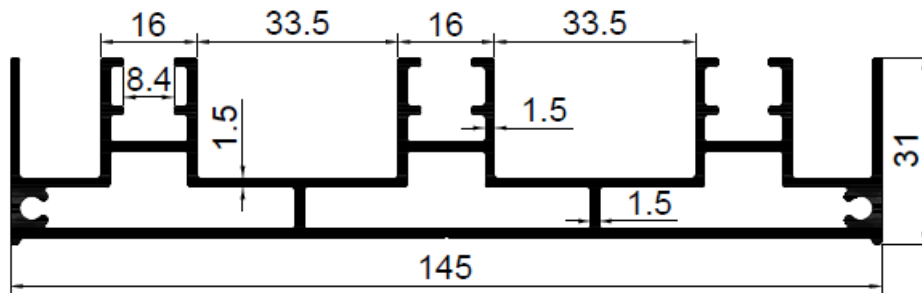
Wt-2.750 Kg/12'

SEC NO 23676



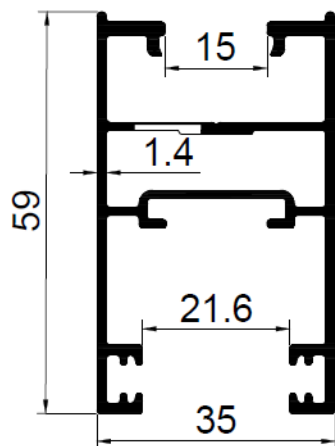
Wt-6.100 Kg/12'

SEC NO 23677



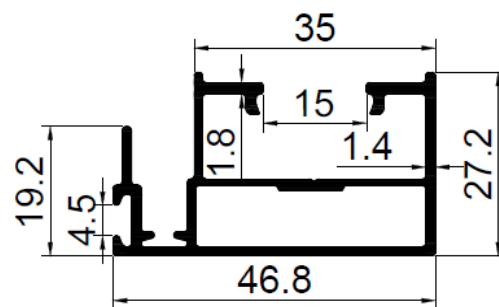
Wt-7.850 Kg/12'

SEC NO 23678



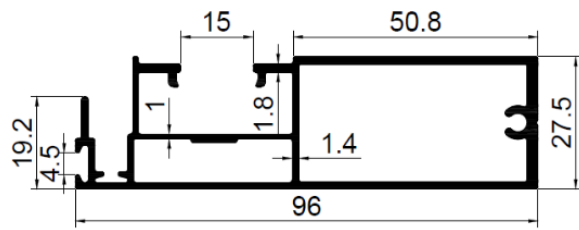
Wt-3.450 Kg/12'

SEC NO 23679



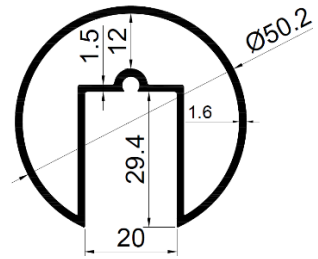
Wt-2.450 Kg/12'

SEC NO 23680



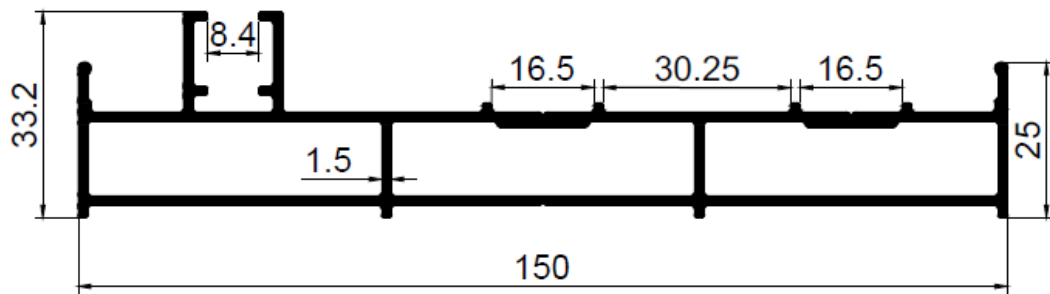
Wt-4.650 Kg/12'

SEC NO 23681



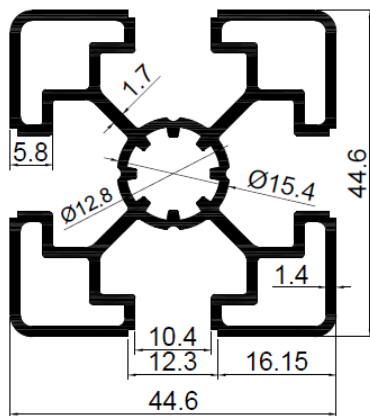
Wt-3.300 Kg/12'

SEC NO 23682



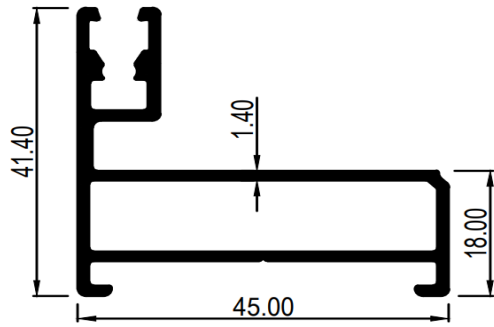
Wt-6.500 Kg/12'

SEC NO 23683



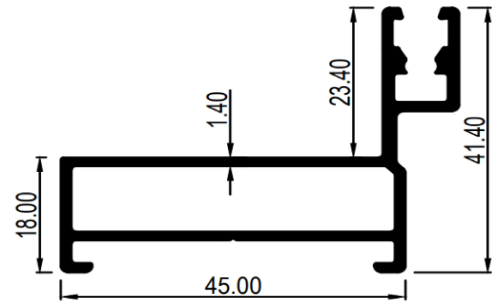
Wt-4.500 Kg/12'

SEC NO 25001



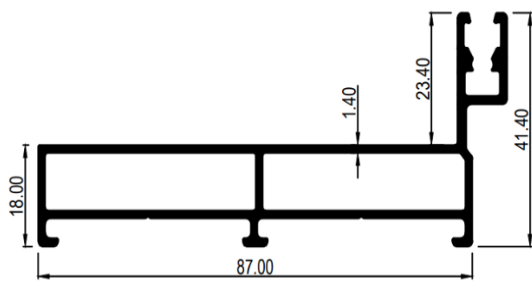
Wt-2.500 Kg/12'

SEC NO 25002



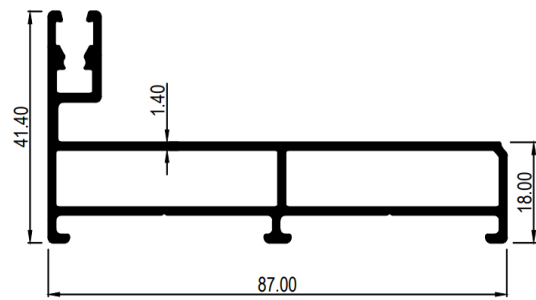
Wt-2.500 Kg/12'

SEC NO 25003



Wt-3.960 Kg/12'

SEC NO 25004



Wt-3.960 Kg/12'

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