



NARAYAN

ALUMINIUM ALLOY PVT. LTD

CATALOGUE

TRANGLE OF TRUST, QUALITY AND COMMITMENT

WE SPECIALIZE IN MARKET AND INDUSTRIAL
ALUMINIUM PROFILE





VISION

To be a premium metals major, global in size and reach, excelling in everything we do.

MISSION

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



About us

We are pleased to introduce our company M/s Narayan Aluminium Alloys Pvt. Ltd., based at Khorda, Bhubaneswar – Odisha. We are one of the leading manufacturers of the various kinds of Aluminium Extrusions products with monthly production capacity of 750 MT, having 2 press of 900 Ton & 1650 MT.

We are also well equipped with latest testing facility in our Factory with Qualified & highly experienced Team. We also have in house Powder Coating as well as Anodizing facility to meets the needs of our Clients.

Initially we our focusing over the Architectural Segment, Industrial Sections, Bus Bars, Lugs, Electrical Profiles , Ferrules , Rods & Flats, (In Alloys 1050 / 1350/1100 / 6063/6082/6061/6351/ 6101 / 5052) With best possible competitive price with good quality of Products.

We at Narayan Aluminium Alloy Pvt. Ltd. believe in achieving total customer satisfaction, professional approach for a continuous technological upgradation and consistence in quality without compromise. Our focus is on adding economic values for our customers whom products supported by innovation service, improved process capability in a more efficient way.

Product Range

Standard Section

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 angels.
We have more than
200 size

We also develop section to your requirements and size.

Equal tee sections, unequal
tee sections, and some
channels.

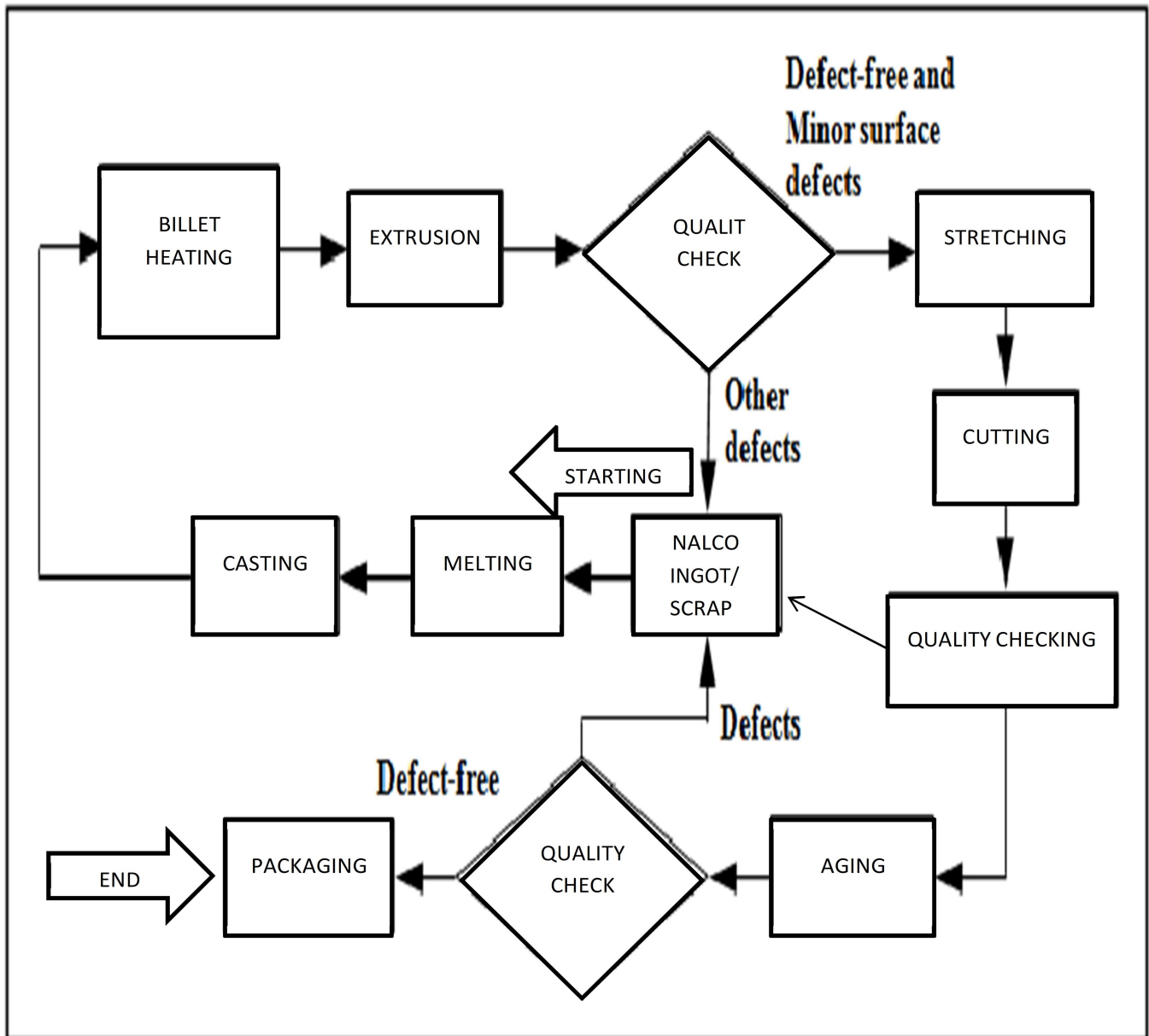
ARCHITECTURAL SECTION,
DOOR HANDLE, SLIDING
DOOR, WINDOWS SECTION
AND DISPLAY SYSTEM.

MODULAR FURNITURE, SOLAR
PANNEL, ETC.

GEAR PUMP, PUMP CONSIST,
COOKER PATTI, TUBE
CONNECTOR FOR AC SYSTEM,
ETC.

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

Production Process



Quality Control

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

Measuring Instrument

SR. NO	INSTRUMENT NAME	RANGE	UTILITY
1	UNIVERSAL TESTING MACHINES	0- 400 KN	TO TEST THE TENSILE STRENGTH.
2	HARDNESS TESTER (H.R.B.)	22-1411BHM	TO TEST THE BRINELL HARDNESS.
3	HARDNESS TESTER (H.R.C.)	0-100	TO TEST THE ROCKWELL HARDNESS.
4	SPECTRO MITER (METAL POWER)		TO TEST THE CHEMICAL ANALYSIS OF ALUMINIUM AND, IT,S ALLOY.
5	WEBSTAR	0-20	TO TEST OF HARDNESS OF PROFILES.
6	CONDUCTIVITY MITER WITH DISPLAY	10% - 102% I.A.C.S.	TO TEST ELECTRICAL CONDUCTIVITY.
7	MICRONMITER	0-25 MICRON	TO TEST COATING THIKNESS OF POWDER COATING AND ANODIGING.
8	VERNIER MITER/ CALRLIPRER	0-150,300,600 MM	TO TEST ODAND ID OF PROFILE.

SUSTAINABILITY POLICY

OUR SUSTANABILITY POLICY CONSISTS MAJORLY OF 4 ELEMENT.

- **OUR VISION IS TO MEET THE NEEDS AND WANTS OF CONSUMER DEMANDS BY PROVIDING QUALITY PRODUCT WITH IN THE VALUE OF THE MONEY.**
- **WE UPHOLD STRONG VALUES OF EXCELLENCE IN PRODUCT PROVISION AS WELL AS IN SERVICE PROVISION.**
- **OUR OBJECTIVE IS OUR TAG LINE WITH STATES TRANGLE OF TRUST, QUALITY AND COMMITMENT.**
- **OUR GOAL COULD BE DIVIDED INTO TWO SECTION FRISTLY ATTENDING COSTUMER SATISFACTION. SECONDLY BECOMING ONE OF THE LEADING PRODUCTION ALUMINIUM EXTRUSION IN THE ESTERN PARK OF INDIA.**

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. When extrusions are ordered cut to length, the tolerances on length shall be as shown in table N0.9.

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 3.66 meter length given in this catalogue is the nominal weight and should be treated as an indication only since in practice factors viz., tolerance and alloy wtU determine the actual weight of the section.

DIMENSION AND 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. Made of packing (Wooden box / Hessian/Naked)

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

Wrought alloys: Chemical composition limits (per cent)

Alloy (ISS) Old	New	Equivalent alloy (AA) U.S.A.	Copper		Magnesium		Silicon		Iron Max.	Manganese		*Other s(Total) Max.	Remarks
			Min.	Max.	mMin.	Max.	Min.	Max.		Min.	Max.		
1C	19000	1100	-	0.10	-	-	-	0.5	0.6	-	0.1	0.1	Aluminium 99.0% Min
1 B	19500	1050	-	0.05	-	-	-	0.25	0.4	-	0.05	0.1	Aluminium 99.5% Min
1 E	19501	-	-	0.04	-	-	-	0.15	0.35	-	0.03	0.1	Aluminium 99.5% Min
-	19600	1060	-	0.05	-	-	-	0.25	0.35	-	0.03	0.1	Aluminium 99.6% Min
H 15	24345	2014	3.8	5.0	0.2	0.8	0.5	1.2	0.7	0.3	1.2	0.5	-
H 14	24534	2017	3.5	4.7	0.4	1.2	0.2	0.7	0.7	0.4	1.2	0.5	-
		2024	3.8	4.9	1.2	1.8	-	0.5	0.5	0.3	0.9	0.15	Zn 0.25
N 3	91000	3003	-	0.1	-	0.1	-	0.6	0.7	1.0	1.5	0.4	-
		4032	0.8	1.3	0.8	1.3	-	13.5	0.6	-	0.2	0.15	Ni 0.8 - 1.3
N 4	52000	5052	-	0.1	1.7	2.6	-	0.6	0.5	-	0.5	0.4	Cr + Mn = 0.5
M 5	53000	5086	-	0.1	2.8	4.0	-	0.6	0.5	-	0.5	0.4	Cr + Mn = 0.5
N 8	54300	5083	-	0.1	4.0	4.9	-	0.4	0.7	0.5	1.0	0.4	Chromium up to 0.25
H 20	65032	-	0.15	0.4	0.7	1.2	0.4	0.8	0.7	0.2	0.8	0.4	**Cr = 0.15 - 0.35
-	-	6061	0.15	0.4	0.8	1.2	0.4	0.8	0.7	-	0.15	0.4	Chromium 0.04 to 0.35
H 9	63400	6063	-	0.1	0.4	0.9	0.3	0.7	0.6	-	0.3	0.4	-
-	-	6066	0.7	1.2	0.8	1.4	0.9	1.8	0.7	0.6	1.1	0.4	-
-	64423	-	0.5	1.0	0.5	1.3	0.7	1.3	0.8	-	1.0	-	-
9 1E	63401	6101	-	0.05	0.4	0.9	0.3	0.7	0.5	-	0.03	0.1	-
H 30	64430	6351	-	0.1	0.4	1.2	0.6	1.3	0.6	0.4	1.0	0.3	-
		6082	-	0.1	0.6	1.2	0.7	1.3	0.5	0.4	1.0	0.3	Chromium up to 0.25
-	74530	7039	-	0.2	1.0	1.5	-	0.4	0.7	0.2	0.7	0.4	Zinc 4.0 - 5.0 %
-	-	7075	1.2	2.0	2.1	2.9	-	0.5	0.5	-	0.3	0.2	Zinc (5.1 - 6.1) % & Chromium(0.18- 0.28) %

* Titanium and/or other grain refining elements

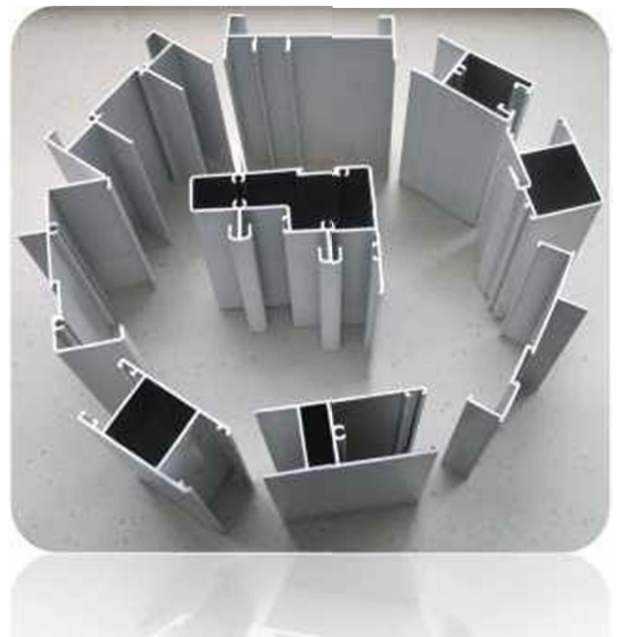
** Either Mn or Cr shall be present

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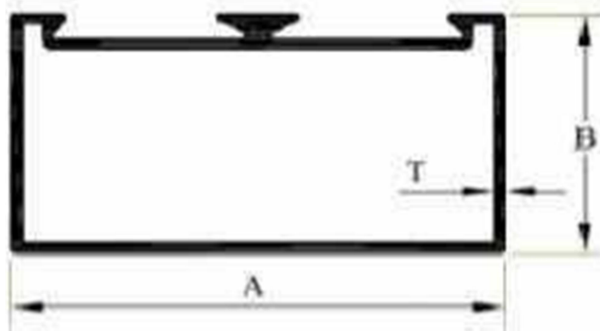
ARCHITECTURAL SECTIONS



ARCHITECTURAL SECTIONS

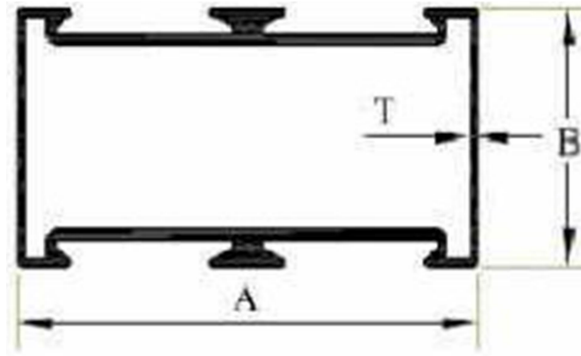
DOORS AND PARTITIONS

SINGLE PARTITION



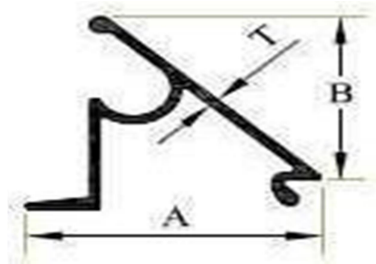
Section No.	Dimension in mm			Weight Range KG/ 12 FT
	A	B	T	
17001	50.00	25.00	0.75	1.300-1.450
17002	50.00	25.00	1.1	1.600-1.800
17003	50.00	25.00	1.3	2.000-2.200
17008	63.50	38.10	0.8	1.800-2.000
17009	63.50	38.10	0.95	2.000-2.200
17011	63.50	38.10	1.10	2.300-2.530
17012	63.50	38.10	1.30	2.700-3.000
17014	63.50	38.10	1.50	3.000-3.300
17015	63.50	38.10	1.65	3.400-3.700
17017	63.50	38.10	2.00	4.100-4.500
17019	63.50	38.10	2.40	5.100-5.600
17022	63.50	38.10	3.20	6.500-7.150
17026	101.6	44.45	1.25	3800-4.200
17027	101.6	44.45	1.40	4.100-4.510
17028	101.6	44.45	1.60	4.800-5.200
17029	101.6	44.45	1.80	5.300-5.800
17034	101.60	44.45	3.00	8.700-9.570

DOUBLE PARTITION



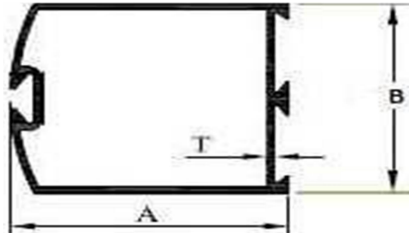
Section No.	Dimension in mm			Weight Range
	A	B	T	KG/ 12 FT
17041	50.8	25.4	0.75	1.300-1.450
17042	50.8	25.4	1.10	1.600 – 1.750
17048	63.50	38.10	0.80	1.800-2.000
17049	63.50	38.10	0.95	2.100-2.300
17051	63.50	38.10	1.10	2.400-2.650
17052	63.50	38.10	1.30	2.700-3.000
17054	63.50	38.10	1.65	3.400-3.700
17062	101.60	44.45	1.25	3.800-4.180
17064	101.60	44.45	1.60	4.800-5.280
17065	101.60	44.45	1.80	5.300-5.800
17066	101.60	44.45	3.00	9.000-9.900

GLAZING CLIP



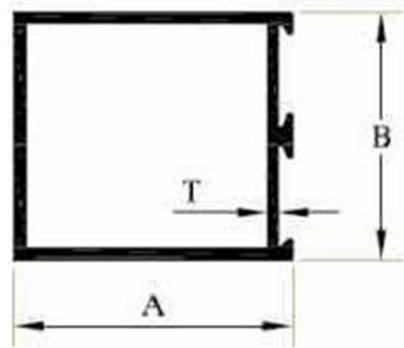
Section No.	Dimension in mm			Weight Range
	A	B	T	KG/ 12 FT
17090	19.05	17.32	0.52	0.200-0.280
17091	19.05	17.32	1.00	0.350-0.450

DOOR VERTICAL GROOVED



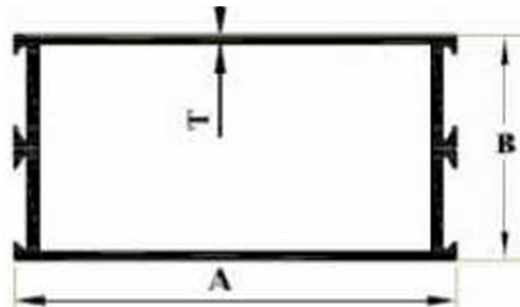
Section No.	Dimension in mm			Weight Range
	A	B	T	KG/ 14 FT
17182	47.60	44.45	1.00	2.000-2.300
17183	47.60	44.45	1.20	2.300-2.550
17102	47.60	44.45	1.35	2.700-3.000
17203	47.60	44.45	1.70	3.300-3.700
17206	47.60	44.45	12.60	4.800-5.300
17116	83.50	44.45	1.70	4.400-4.800
17118	83.50	44.45	3.00	7.000-7.500

DOOR MIDDLE SINGLE



Section No.	Dimension in mm			Weight Range
	A	B	T	KG/ 12 FT
17127	47.60	44.45	1.10	2.200-2.420
17128	47.60	44.45	1.45	2.700-2.980
17137	83.50	44.45	1.60	4.100-4.510
17138	83.50	44.45	2.00	5.000-5.500

DOOR MIDDLE DOUBLE



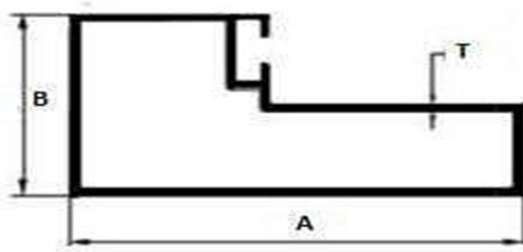
Section No.	Dimension in mm			Weight Range
	A	B	T	KG/ 12 FT
17142	47.60	44.45	1.10	2.300-2.530
17143	47.60	44.45	1.35	2.700-3.000
17146	47.60	44.45	2.50	4.500-5.000
17153	83.5	44.45	1.25	3.400-3.800
17162	100.00	44.45	1.70	4.500-5.000

DOOR TOP & BOTTOM



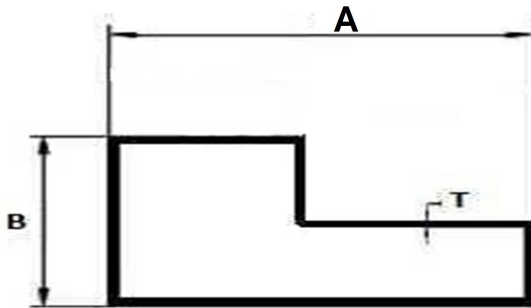
Section No.	Dimension in mm			Weight Range KG/ 12 FT
	A	B	T	
17181	47.60	10.00	1.00	2.000-2.200
17183	47.60	10.00	1.45	2.700-3.000
17184	47.60	10.00	1.75	4.400-4.700
17166	83.10	10.00	1.75	4.400-4.700
17173	95.00	25.00	1.75	4.800-5.300
17174	101.00	44.45	1.60	4.000-4.500
17175	101.00	44.45	1.70	4.500-5.200

L. PIPE / DOOR FRAME



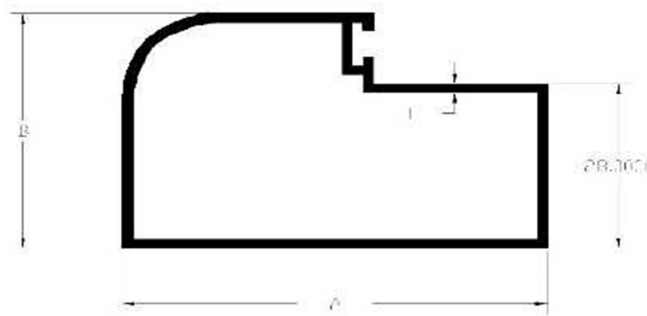
Section No.	Dimension in mm			Weight Range KG/ 12 FT
	A	B	T	
17996	63	38	1.59	4.000-4.500

L. PIPE



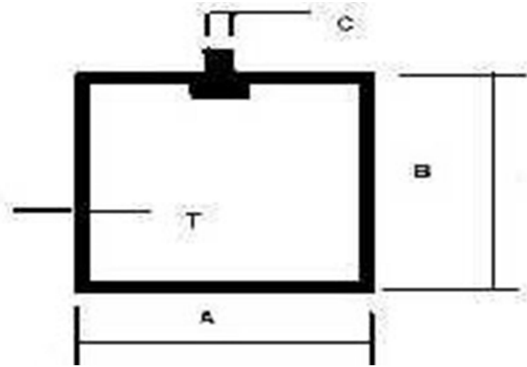
Section No.	Dimension in mm			Weight Range KG/ 12 FT
	A	B	T	
18000	50.40	32.40	1.00	1.300-1.600
18001	50.4	32.6	1.20	1.700-2.000

MOULDING CHOUKHAT (63x 38)



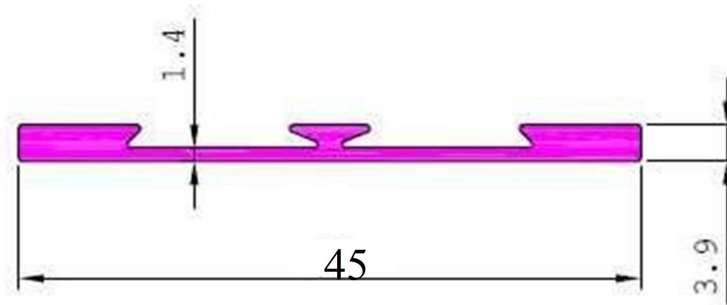
Section No.	Dimension in mm			Weight Range KG/ 12 FT
	A	B	T	
18005	63	28	1.05	2.000-2.300

CURTAIN WALL



Section No.	Dimension in mm			Weight RangeKG/ 12 FT
	A	B	T	
19022	50.00	50.00	1.00	2.900-3.200

GLAZING PLATE

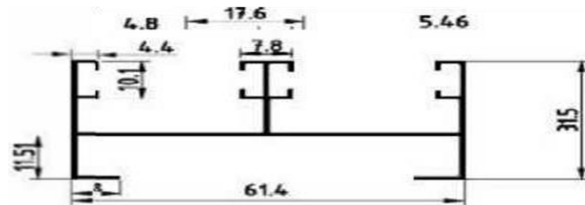


	Dimension in mm			Weight RangeKG/ 12 FT
	A	B	T	
17096	44.00	3.40	0.80	0.550-0.700
17097	44.00	3.40	1.00	0.700-0.800

ARCHITECTURAL SECTIONS

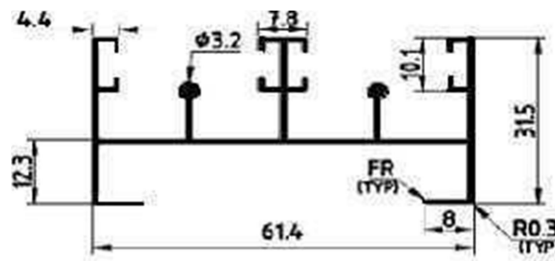
WINDOW SECTIONS

TWO TRACK TOP (18MM SERIES)



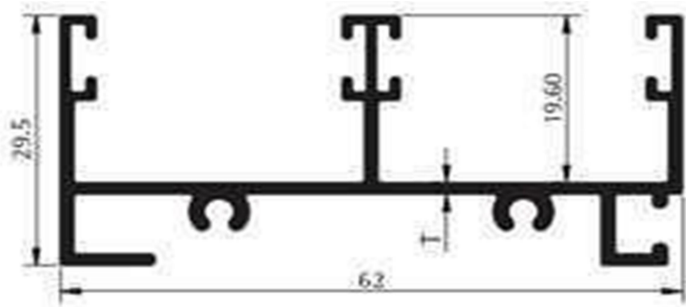
Section No.	Dimension in mm			Weight Range KG/ 12 FT
	A	B	T	
18199	62	32	0.80	1.300-1.500

TWO TRACK BOTTOM (18MM SERIES)



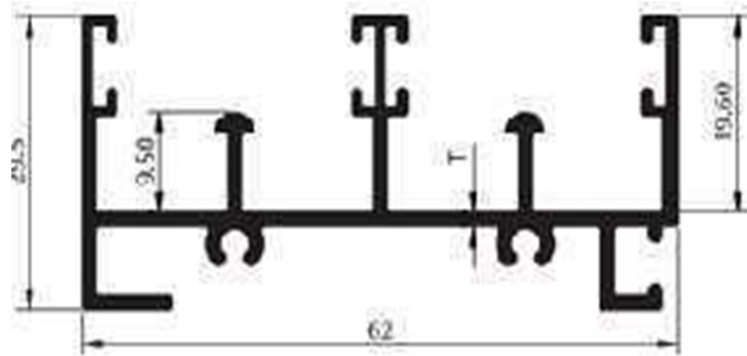
Section No.	Dimension in mm			Weight Range KG/ 12 FT
	A	B	T	
18209	62	32	0.80	1.500-1.700

TWO TRACK TOP (20MM SERIES)



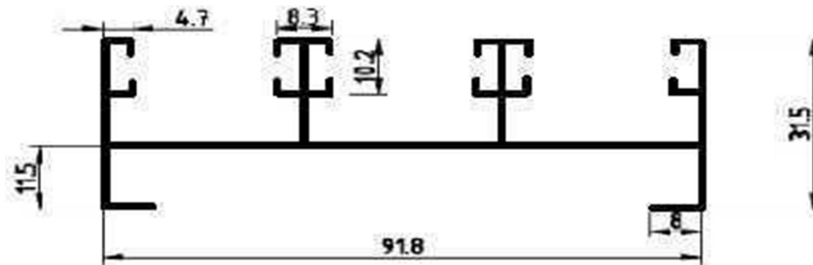
Section No.	Dimension in mm			Weight RangeKG/ 12 FT
	A	B	T	
17198	62.00	29.50	0.60	1.400-1.600
17199	62.00	29.50	0.70	1.600-1.760
17200	62.00	29.50	0.95	1.800-2.000
17201	62.00	29.50	1.10	2.100-2.300
17202	62.00	29.50	1.30	2.400-2.640
17204	62.00	29.50	1.60	2.900-3.200

TWO TRACK BOTTOM (20MM SERIES)



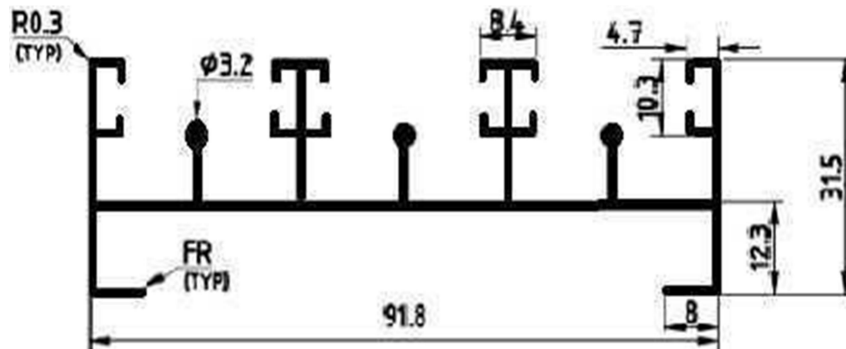
Section No.	Dimension in mm			Weight RangeKG/ 12 FT
	A	B	T	
17209	62.00	29.50	0.70	1.600-1.800
17210	62.00	29.50	0.95	1.900-2.100
17211	62.00	29.50	1.10	2.250-2.475
17212	62.00	29.50	1.30	2.700-3.000
17213	62.00	29.50	1.50	3.100-3.400

THREE TRACK TOP (18MM SERIES)



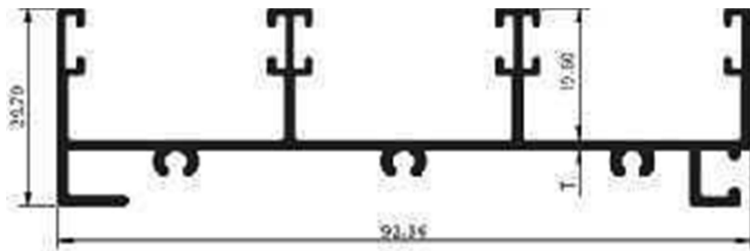
Section No.	Dimension in mm			Weight Range
	A	B	T	KG/ 12 FT
18229	92	32	0.80	2.000-2.200

THREE TRACK BOTTOM (18MM SERIES)



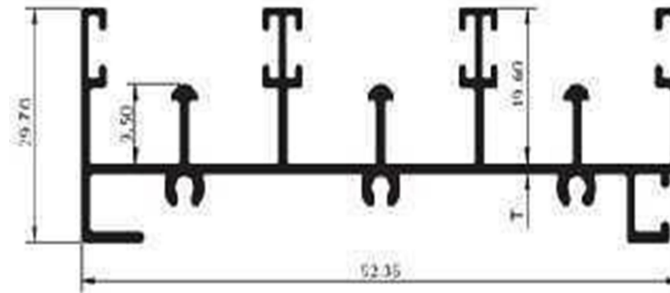
Section No.	Dimension in mm			Weight Range
	A	B	T	KG/ 12 FT
18239	92	32	0.80	2.500-2.700

THREE TRACK TOP (20MM SERIES)



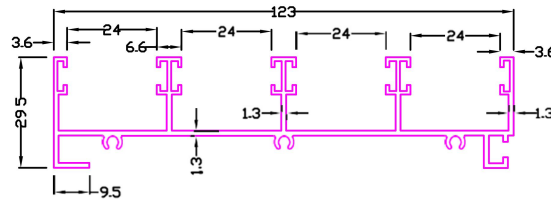
Section No.	Dimension in mm			Weight Range
	A	B	T	KG/ 12 FT
17229	92.00	30.00	0.70	2.100-2.300
17230	92.00	30.00	0.85	2.500-2.750
17231	92.00	30.00	1.10	2.800-3.100
17232	92.00	30.00	1.30	3.100-3.400
17233	92.00	30.00	1.50	3.500-3.850
17235	92.00	30.00	1.65	3.900-4.300

THREE TRACK BOTTOM (20MM SERIES)



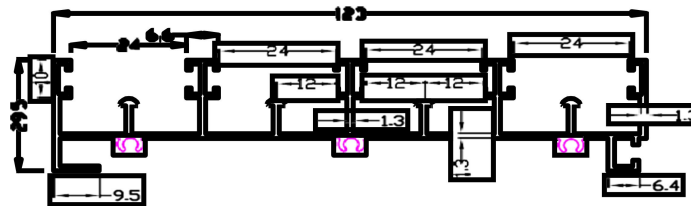
Section No.	Dimension in mm			Weight Range KG/ 12 FT
	A	B	T	
17239	92.00	30.00	0.75	2.300-2.550
17240	92.00	30.00	0.90	3.000-3.300
17241	92.00	30.00	1.10	3.300-3.650
17242	92.00	30.00	1.30	3.600-3.960
17245	92.00	30.00	1.55	4.300-4.730
17249	92.00	30.00	2.00	4.800-5.280
17250	92.00	30.00	0.85	2.700-3.000

FOUR TRACK TOP (20MM SERIES)



Section No.	Dimension in mm			Weight Range
	A	B	T	KG/ 12 FT
17252	123	30	1.30	4.200-4.400

FOUR TRACK BOTTOM (20MM SERIES)

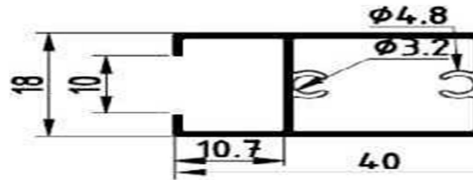


Section No.	Dimension in mm			Weight Range
	A	B	T	KG/ 12 FT
17257	123	30	1.30	4.400-4.600

ARCHITECTURAL SECTIONS

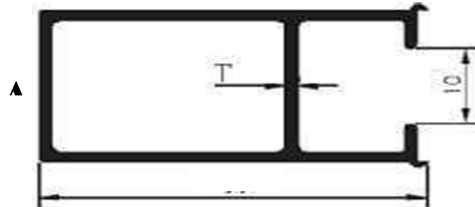
WINDOW SECTIONS

HANDLE (18MM SERIES)/ A SEC



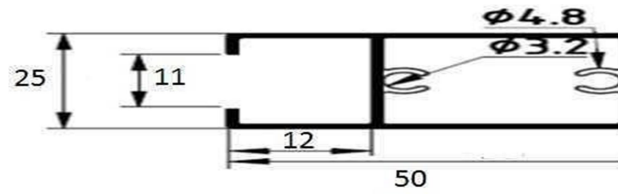
Section No.	Dimension in mm			Weight Range KG/ 12 FT
	A	B	T	
17300	40	18	0.70	900-1.100

HANDLE (20 MM SERIES)/ A SEC



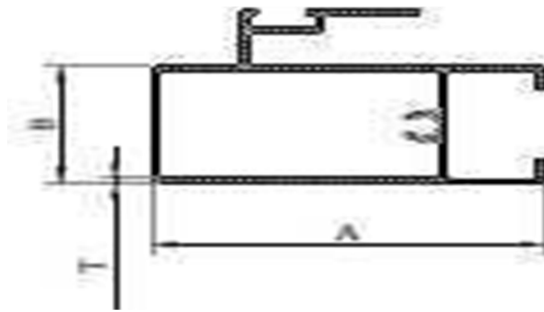
Section No.	Dimension in mm			Weight Range KG/ 12 FT
	A	B	T	
17599	38.00	20.00	0.85	1.00-1.150
17600	38.00	20.00	1.10	1.200-1.350
17601	38.00	20.00	1.30	1.500-1.650
17602	38.00	20.00	1.50	1.700-1.900
17603	38.00	20.00	1.65	2.000-2.200

HANDLE (2X1)/ A SEC



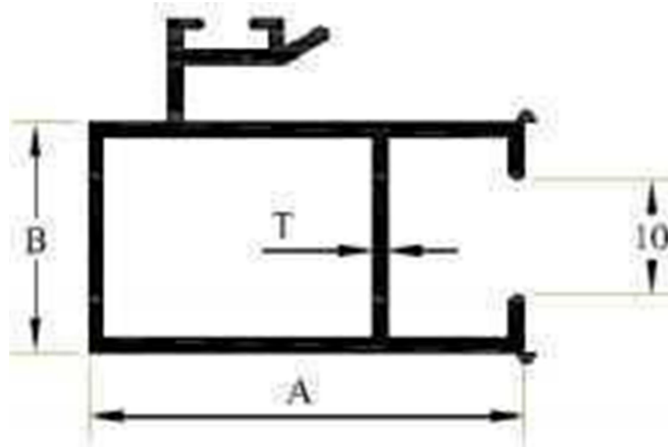
Section No.	Dimension in mm			Weight Range KG/ 12 FT
	A	B	T	
17610	50.00	25.00	1.20	1.700-2.000

INTERLOCK (18MM)



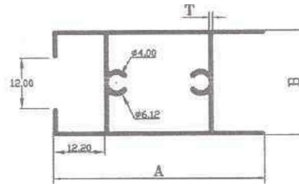
Section No.	Dimension in mm			Weight Range KG/ 12 FT
	A	B	T	
18500	40	18	0.70	1.100-1.300

INTERLOCK (20 MM)



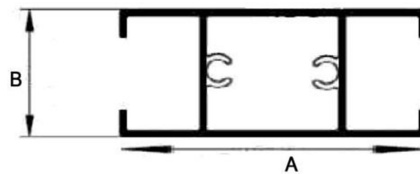
Section No.	Dimension in mm			Weight
	A	B	T	RangeKG/ 12 FT
17499	38.00	20.00	0.80	1.100-1.300
17500	38.00	20.00	1.00	1.300-1.500
17501	38.00	20.00	1.15	1.500-1.700
17502	38.00	20.00	1.30	1.700-2.000
17503	38.00	20.00	1.45	2.000-2.200

TOP BOTTOM 2x1



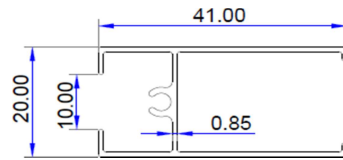
Section No.	Dimension in mm			Weight Range KG/ 12 FT
	A	B	T	
18650	40	18	0.70	0.900-1.100

MIDDLE WITH GROUP (H SEC/ METTING SEC)



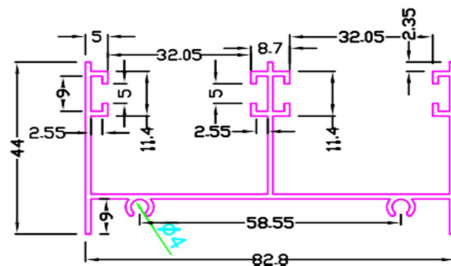
Section code	Dimension in mm			Weight Range KG/ 12 FT
	A	B	T	
17401	75.00	25.40	1.00	2.600-2.800
17402	80.00	18.00	1.00	1.870-2.060

H SEC (20 mm)



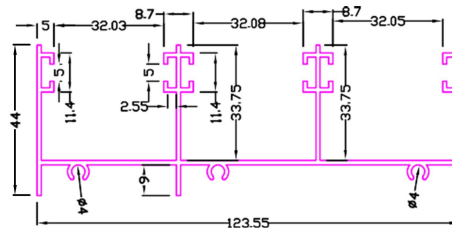
Section No.	Dimension in mm			Weight Range KG/ 12 FT
	A	B	T	
17650	41.00	20.00	0.85	1.000-1.200
17651	41.00	20.00	1.00	1.200-1.400
17652	41.00	20.00	1.20	1.400-1.700
17653	41.00	20.00	1.50	1.800-2.100
17654	41.00	20.00	1.65	2.000-2.200

SLIDING 25 MM SERIES (TWO TRACK TOP)



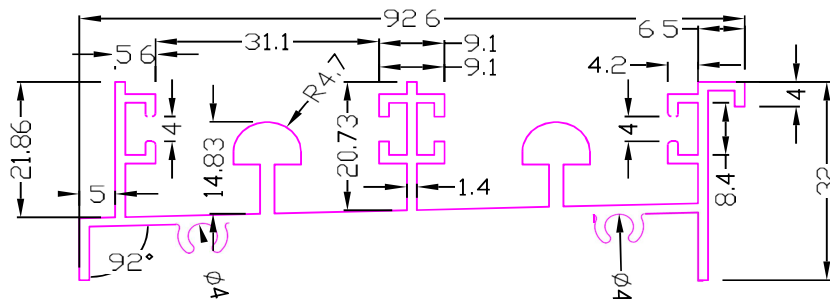
Section No.	Dimension in mm			Weight RangeKG/ 12 FT
	A	B	T	
17261	82.80	44.00	1.20	3.200-3.400

SLIDING 25 MM SERIES (THREE TRACK TOP)



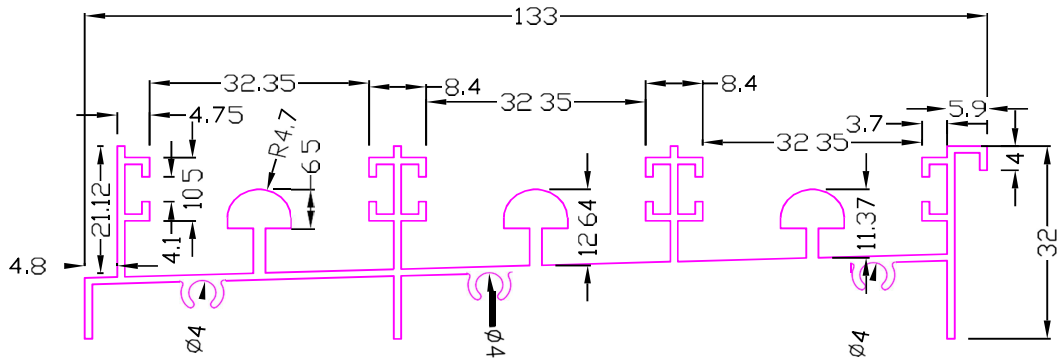
Section No.	Dimension in mm			Weight RangeKG/ 12 FT
	A	B	T	
17270	123	44	1.20	4.600-5.000

SLIDING 25 MM SERIES (TWO TRACK BOTTOM)



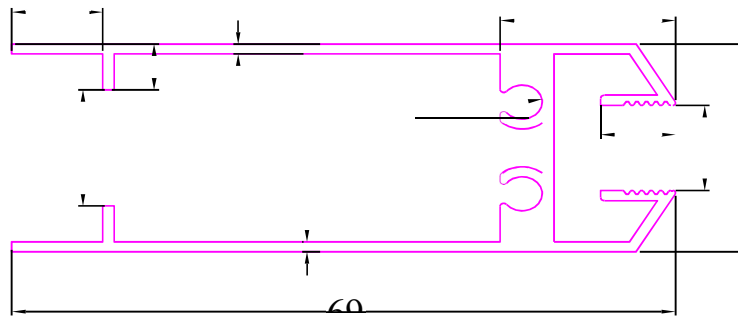
Section No.	Dimension in mm			Weight RangeKG/ 12 FT
	A	B	T	
17266	93	32	1.40	4.600-5.000

SLIDING 25 MM SERIES (THREE TRACK BOTTOM)



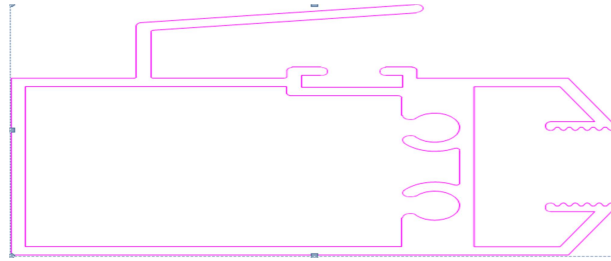
Section No.	Dimension in mm			Weight RangeKG/ 12 FT
	A	B	T	
17276	133	32	1.40	4.600-5.000

25 MM SERIES H SECTION



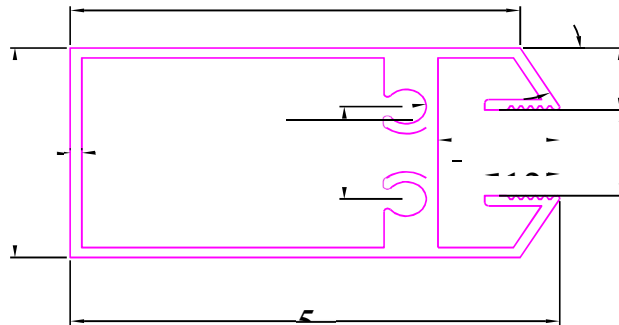
Section No.	Dimension in mm			Weight RangeKG/ 12 FT
	A	B	T	
17800	69	25	1.20	2.700-2.900

25 MM SERIES INTERLOCK



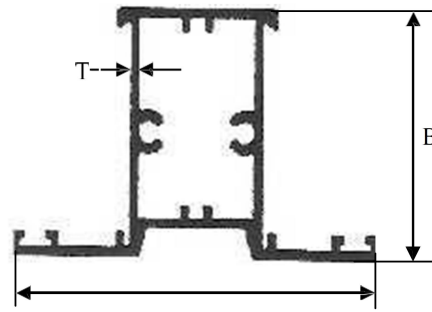
Section No.	Dimension in mm			Weight RangeKG/ 12 FT
	A	B	T	
17850	58	25	1.20	2.900-3.000

25 MM SERIES A SEC



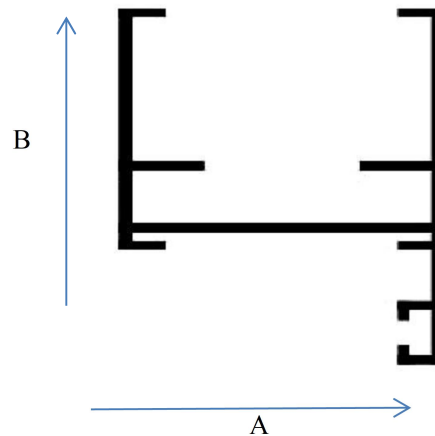
Section No.	Dimension in mm			Weight RangeKG/ 12 FT
	A	B	T	
17825	50	25	1.20	2.900-3.000

OUTER MULLION



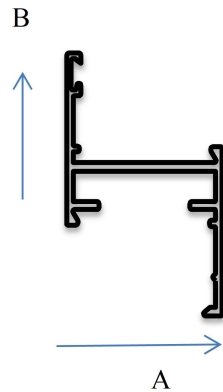
Section No.	Dimension in mm			Weight RangeKG/ 12 FT
	A	B	T	
17770	57.00	4.00	1.50	0.900-3.300

OUTER 34'



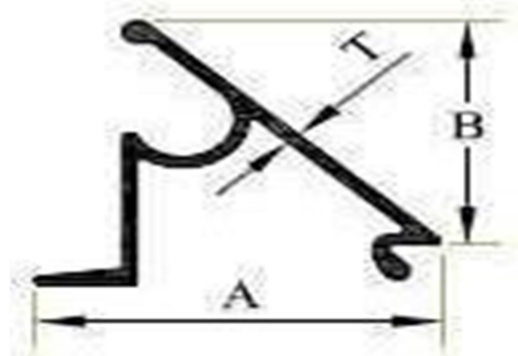
Section No.	Dimension in mm			Weight RangeKG/ 12 FT
	A	B	T	
17724	34.35	44.45	1.20	1.300-1.600
17725	34.35	44.45	1.45	1.700-2.000

Mullion Z



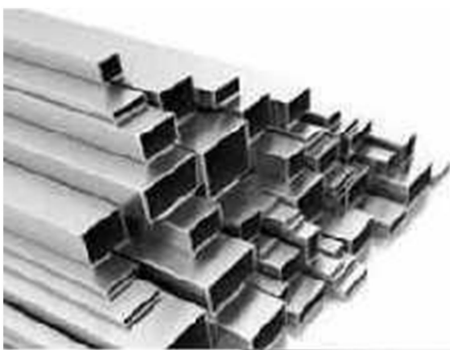
Section No.	Dimension in mm			Weight RangeKG/ 12 FT
	A	B	T	
17750	34.00	43.50	1.70	1.700-1.900

Mullion clip



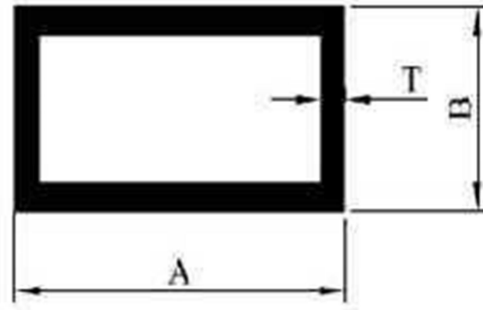
Section No.	Dimension in mm			Weight RangeKG/ 12 FT
	A	B	T	
17771	30.42	17.54	1.30	0.500-0.700

PIPES & TUBES



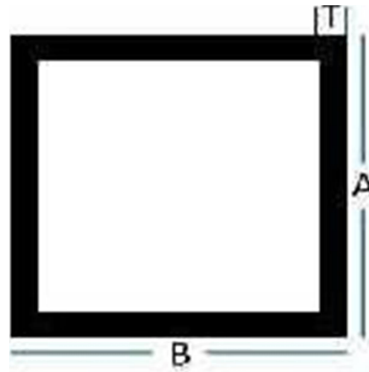
PIPES & TUBES

RECTANGULAR TUBE



Section code	Dimension in mm			Weight Range KG/ 12 FT
	A	B	T	
16200	40.00	20.00	1.20	
16201	38.00	25.40	0.75	0.650-0.750
16202	38.00	25.00	1.00	0.900-1.00
16217	38.00	25.00	2.00	2.200-2.400
16211	50.00	25.00	0.75	0.800-0.900
16212	50.00	25.00	0.95	1.100-1.210
16213	50.00	25.00	1.1	1.300-1.450
16214	50.00	25.00	1.25	1.500-1.650
16215	50.00	25.00	1.5	1.800-2.00
16216	75.00	25.00	2.00	4.200-4.650
16226	63.50	38.10	0.70	1.500-1.700
16227	63.00	38.00	1.20	1.700-1.870
16228	63.00	38.00	1.50	2.800-3.100
16229	63.00	38.00	2.00	3.600-4.00
16230	63.00	45.00	3.00	6.300-6.900
16231	83.00	38.00	1.50	3.500-3.700
16240	101.00	25.00	2.00	5.500-6.100
16242	101.00	44.45	3.00	8.500-9.300
16243	100.00	50.00	3.00	8.850-9.000
16244	120.00	60.00	3.00	10.500-11.550

SQUARE TUBE



Section code	Dimension in mm			Weight RangeKG/12 FT
	A	B	T	
16002	19.5	19.5	1.00	0.650-0.720
16003	19.00	19.00	1.2	0.900-1.00
16004	19.00	19.00	1.5	1.100-1.210
16022	25.40	25.40	0.7	0.700-0.800
16025	25.40	25.40	2.00	1.700-1.900
16012	38.00	38.00	0.7	1.100-1.210
16013	38.00	38.00	1.00	1.400-1.540
16014	38.00	38.00	1.50	2.200-2.420
16015	38.00	38.00	2.00	2.800-3.00
16050	50.00	50.00	1.00	1.900-2.100
16052	50.00	50.00	1.45	2.800-3.100
16051	100.00	100.00	3.00	11.800-13.000

ROUND PIPE



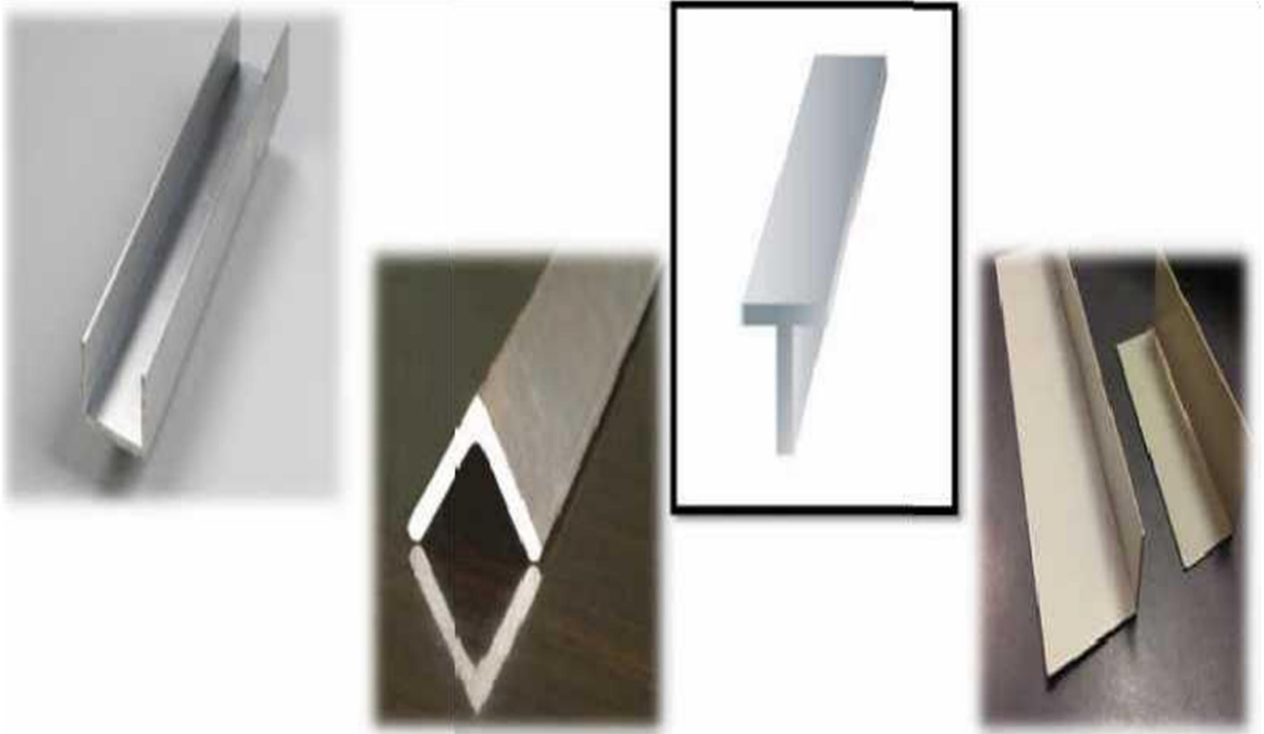
Section code	Dimension in mm		Weight Range
	OD	T	KG/ 12 FT
14004	17.10	4.20	
14000	18.00	0.70	0.370-0.500
14005	18.00	1.00	0.500-0.650
14019	24.00	5.50	
14020	25.00	0.70	0.500-0.700
14025	25.00	1.00	0.750-0.950
14028	28.80	4.50	3.600-3.800
14031	31.80	4.50	3.700-3.900
14032	32.00	2.50	
14048	48.00	17.00	
14052	54.00	20.00	
14070	70.00	5.80	

Fluted pipe 24 mm



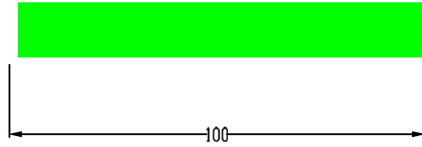
Section code	Dimension in mm		Weight
	OD	T	RangeKG/ 12 FT
14502	25.00	1.55	0.750-0.950
14503	25.00	1.80	1.400-1.600

ANGLES & CHANNELS



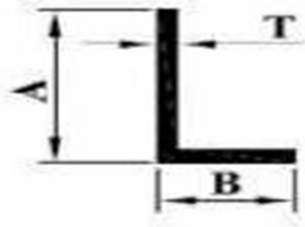
ANGLE, CHANNELS & FLAT BAR

FLAT BAR



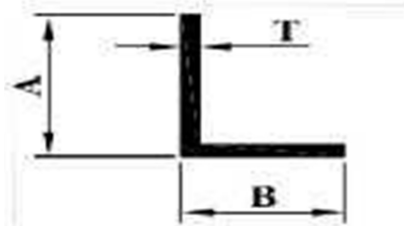
SEC. NO	A	T	WEIGHT IN 12'
11119	19.0	3.00	0.525-0.600
11004	25.00	2.00	0.500-0.600
11005	25.00	3.00	0.700-0.900
11007	25.00	5.00	0.800-1.00
11008	25.00	6.00	1.500-1.800
11010	25.00	10.00	2.500-2.800
11011	30.00	10.00	3.00-3.400
11012	40.00	5.00	2.00-2.400
11014	40.00	10.00	2.900-4.400
11039	50.00	5.00	2.600-2.800
11040	50.00	6.00	2.900-3.200
11042	50.00	10.00	4.850-5.350
11019	50.00	12.00	5.900-6.400
11025	60.00	10.00	5.900-6.400
11028	60.00	12.00	7.00-7.500
11031	75.00	3.00	2.300-2.500
11032	75.00	6.00	4.350-4.750
11035	75.00	10.00	7.350-7.850
11036	75.00	12.00	8.800-9.300
11038	80.00	10.00	7.900-8.400
11039	80.00	12.00	9.400-10.000
11043	100.00	6.00	5.900-6.400
11044	100.00	10.00	9.900-10.700
11045	100.00	12.00	11.700-12.700
11046	125.00	10.00	12.300-12.700
11047	150.00	10.00	14.800-15.000
11048	150.00	12.00	17.800-18.000
11049	160.00	10.00	15.700-16.000
11050	200.00	6.00	11.700-12.700
11051	200.00	10.00	19.700-20.000
11052	200.00	12.00	23.700-24.000
11053	150.00	6.00	8.900-9.200

UNEQUAL ANGLES



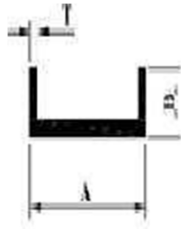
Section code	Dimension in mm			Weight RangeKG/12 FT
	A	B	T	
13110	37.00	24.00	1.9	1.100-1.210
13113	38.10	25.40	2.20	1.300-1.430
13115	28.10	25.40	2.60	1.600-1.760
13155	50.00	25.00	3.00	2.200-2.420

EQUAL ANGLES



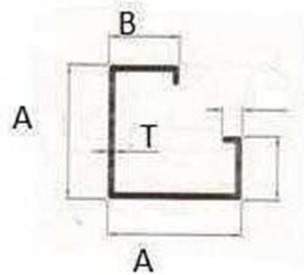
Section code	Dimension in mm			Weight RangeKG/12 FT
	A	B	T	
13014	25.40	25.40	0.8	0.300-0.350
13015	25.40	25.40	2.00	1.00-1.100
13016	25.00	25.00	3.00	1.400-1.550
13022	38.00	38.00	6.00	4.450-4.900
13023	38.00	38.00	4.00	2.900-3.200
13024	38.00	38.00	3.00	2.000-2.200
13026	19.00	19.00	2.00	0.700-0.800
13030	50.00	50.00	4.5	4.200-4.600
13025	50.00	53.00	3.00	3.000-3.300

U-CHANNEL



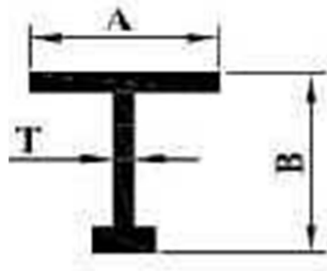
Section code	Dimension in mm			Weight RangeKG/ 12 FT
	A	B	T	
13250	9.00	9.00	0.60	0.150-0.200
13258	12.00	12.00	0.701	0.250-0.300
13265	15.00	15.00	1.30	0.550-0.610
13275	25.00	12.00	0.70	0.330-0.430
13276	25.00	25.00	2.00	1.400-1.600
13277	30.00	25.00	3.80	2.480-2.700

G-CHANNEL



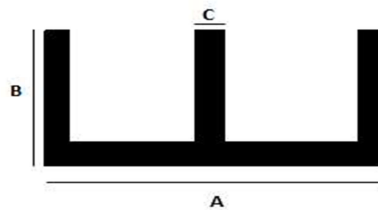
Section code	Dimension in mm			Weight RangeKG/ 12 FT
	A	B	T	
13500	40.00	39.00	1.70	2.000-2.200

BULB T



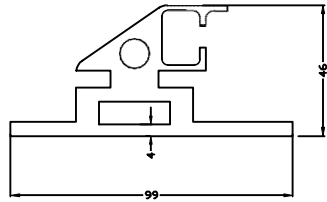
Section code	Dimension in mm			Weight RangeKG/ 12 FT
	A	B	T	
13355	25.40	25.40	0.60	0.300-0.400
13356	25.40	25.40	0.90	0.450-0.600

DOUBLE GLASS CHANNEL



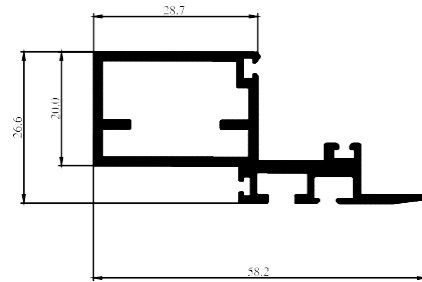
Section code	Dimension in mm			Weight RangeKG/ 12 FT
	A	B	T	
13355	25.40	11.00		0.300-0.450
13356	25.40	11.00		0.450-0.600
13357	18.00	11.00		0.280-0.340
13358	18.00	11.00		0.340-0.400
13359	18.00	11.00		0.400-0.460
13360	22.00	11.00		0.250-0.310
13361	22.00	11.00		0.300-0.360
13362	22.00	11.00		0.350-0.410
13363	22.00	11.00		0.440-0.500

SEC NO-23000



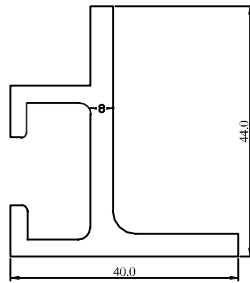
Wt- 12.680 kg/12'

SEC NO-23001



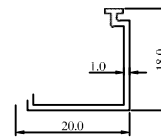
Scale - 2:1

SEC NO-23002



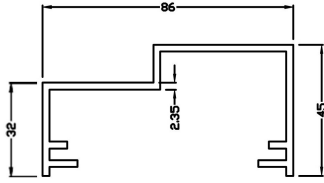
Wt- 3.800 kg/12'

SEC NO-23003



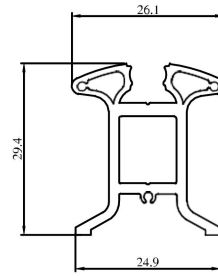
Scale - 2:1
Wt- 0.430 kg/12'
Madhurai Project

SEC NO-23004



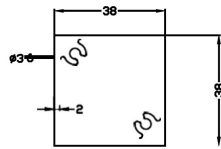
Scale - 1:1
Wt- 4.660 kg/12

SEC NO-23005



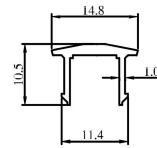
Scale - 1:1
Wt- 7.130 kg/12'
DIE NO AF-1

SEC NO-23006



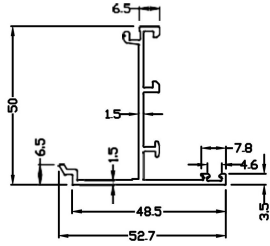
Scale - 1:1
Wt- 3.700 kg/12'
Model No. 103

SEC NO-23007



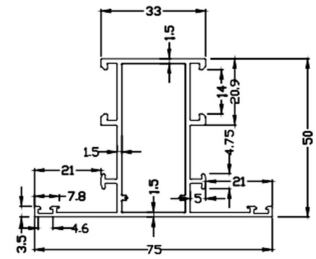
Scale - 1:1
Wt- 0.390 kg/12'
DIE NO AF-2

SEC NO-23008



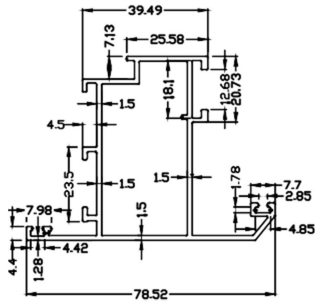
Scale - 1:1
Wt- 2,000 kg/12'
ACE-40

SEC NO-23009



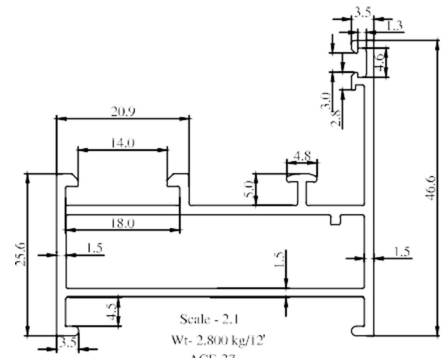
Scale - 1:1
Wt- 3,560 kg/12'
ACE-39

SEC NO-23010



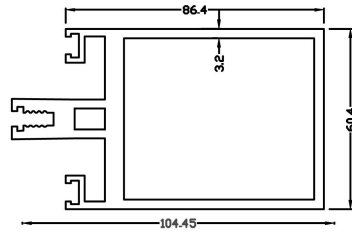
Scale - 1:1
Wt- 4,130 kg/12'
ACE-38

SEC NO-23011



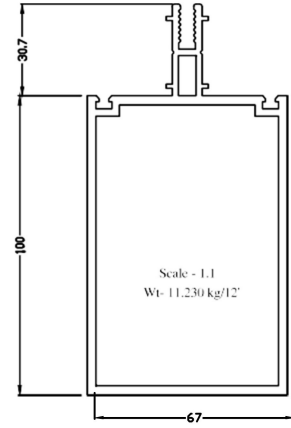
Scale - 2:1
Wt- 2,800 kg/12'
ACE-37

SEC NO-23012



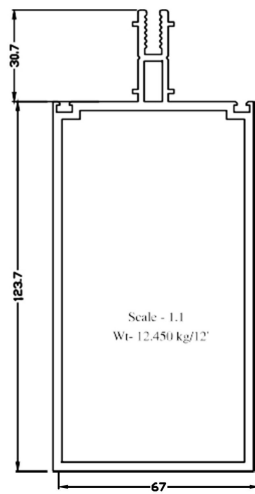
Scale - 1:1
Wt- 13,440 kg/12

SEC NO-23013



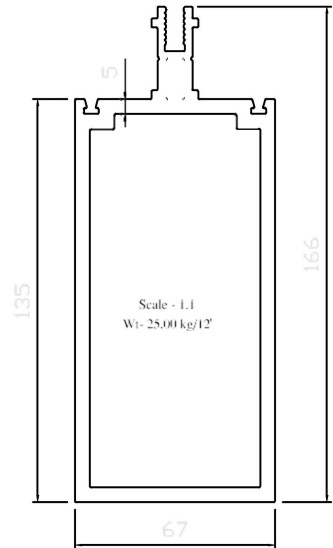
Scale - 1:1
Wt- 11,230 kg/12

SEC NO-23014



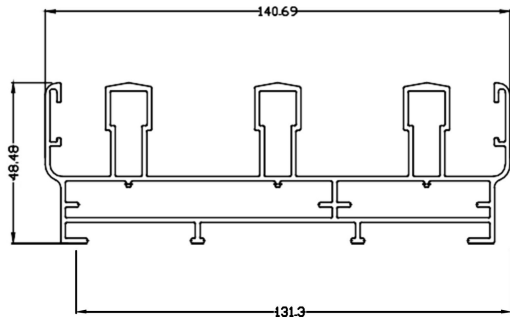
Scale - 1:1
Wt- 12,450 kg/12

SEC NO-23015



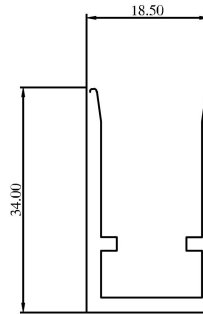
Scale - 1:1
Wt- 25,000 kg/12

SEC NO-23032



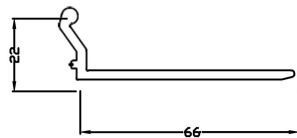
Scale - 1:1
Wt- 9.180 kg/12'

SEC NO-23033



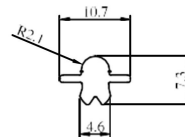
Scale - 2:1
Wt- 0.622 kg/12'

SEC NO-23034



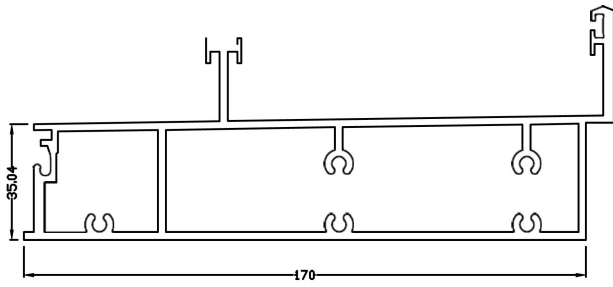
Scale - 2:1
Wt- 0.622 kg/12'

SEC NO-23035



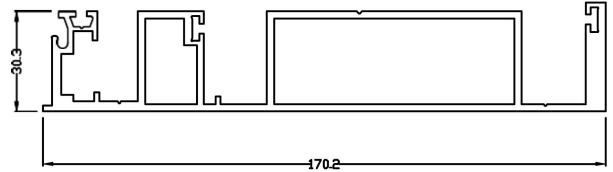
Scale - 2:1
Wt- 0.330 kg/12'

SEC NO-23036



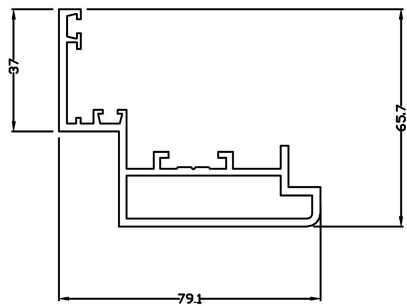
Scale - 1:1
Wt- 11.120 kg/12'

SEC NO-23037



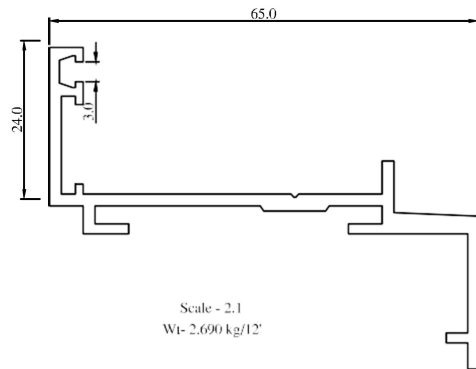
Scale - 1:1
Wt- 11.120 kg/12'

SEC NO-23038



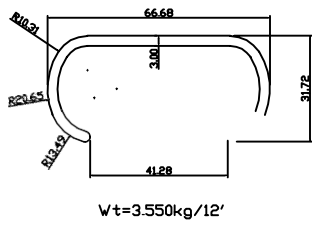
Scale - 1:1
Wt- 5.670 kg/12'

SEC NO-23039

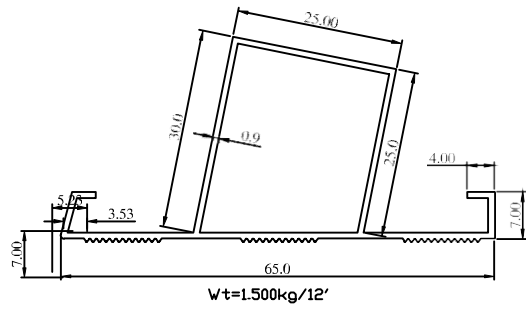


Scale - 2:1
Wt- 2.690 kg/12'

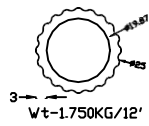
SEC NO-20520



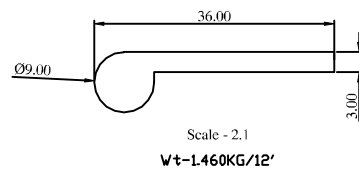
SEC NO-20550



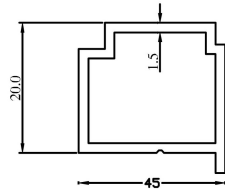
SEC NO-14500



SEC NO-15000

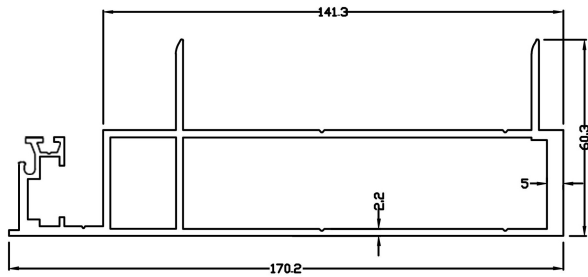


SEC NO-23040



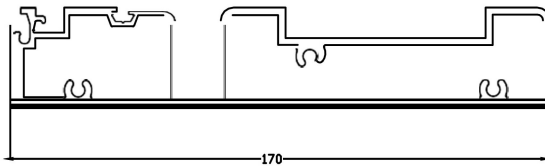
Scale - 2:1
Wt- 1,200 kg/12'

SEC NO-23041



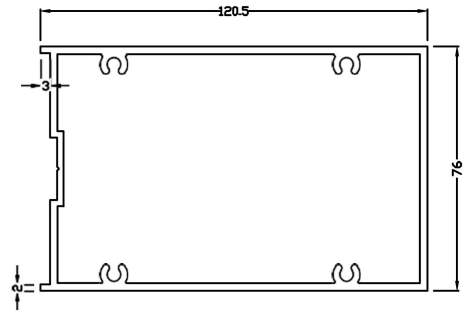
Scale - 1:1
Wt- 11,850 kg/12'

SEC NO-23042



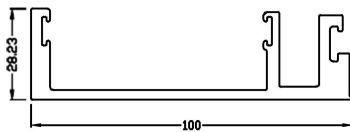
Wt- 11.480 kg/12'

SEC NO-23043



Scale - 1:1
Wt- 10.150 kg/12'

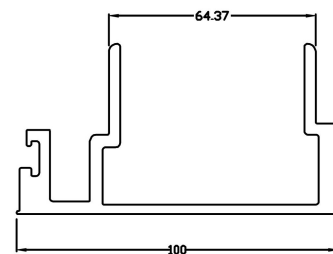
SEC NO-23044



ACE-35

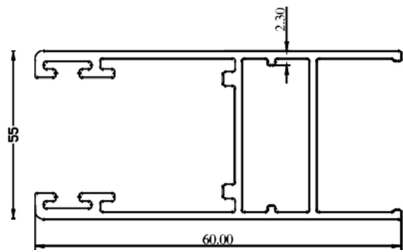
Scale - 1:1
Wt- 6.680 kg/12'

SEC NO-23045



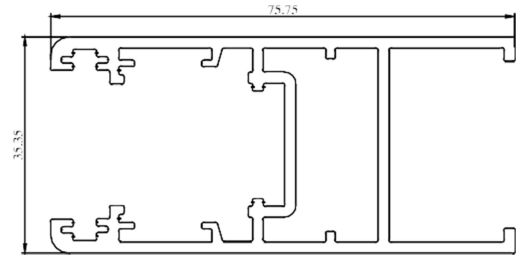
Scale - 1:1
Wt- 9.000 kg/12'

SEC NO-23046



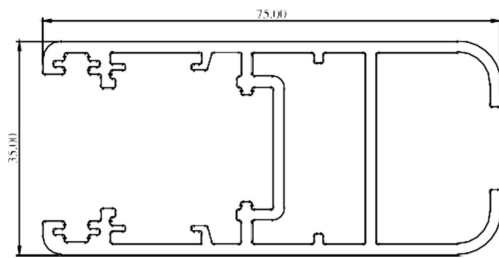
Scale - 2.1
Wt- 2.600 kg/12'

SEC NO-23047



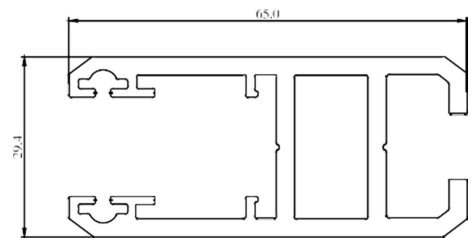
Scale - 2.1
Wt- 4.900 kg/12'

SEC NO-23048



Scale - 1.1
Wt- 2.570 kg/12'

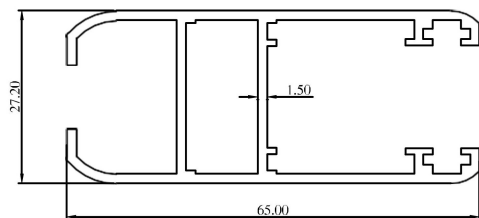
SEC NO-23049



Scale - 1.1
Wt- 3.350 kg/12'

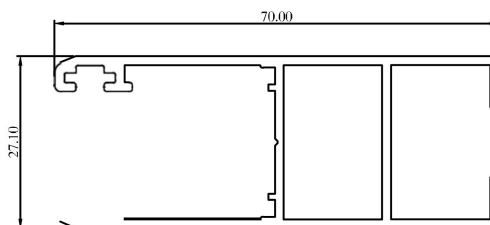
ACE-25

SEC NO-23050



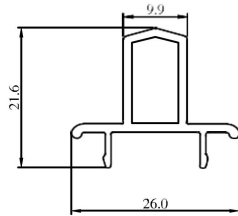
Scale - 2:1
Wt- 3.150 kg/12

SEC NO-23051



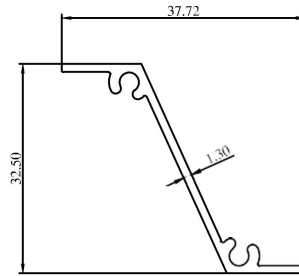
Scale - 2:1
Wt- 3.200 kg/12

SEC NO-23060



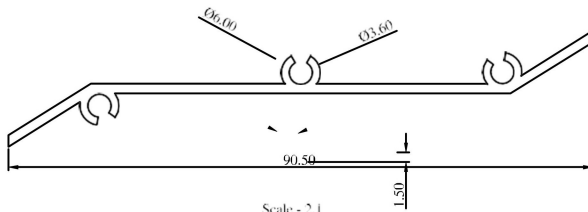
Scale - 2.1
Wt- 0.900 kg/12'
ACE-27

SEC NO-23061



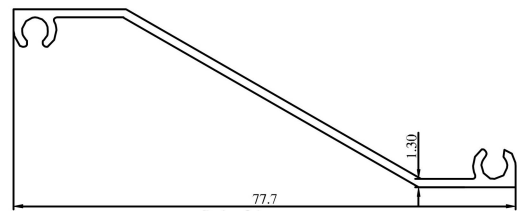
Scale - 2.1
Wt-0.900 KG/12'

SEC NO-23062



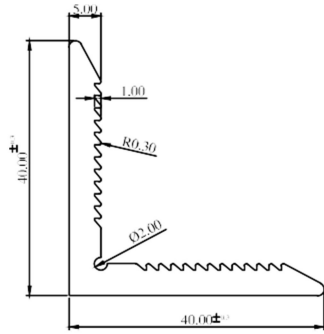
Scale - 2.1
Wt- 1.700 kg/12'

SEC NO-23063



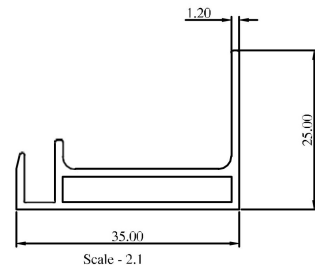
Scale - 2.1
Wt- 1.330 kg/12'
ACE-23

SEC NO-23070



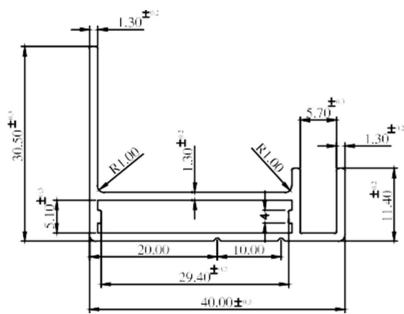
Scale - 2.1
Wt: 3.216 KG/12

SEC NO-23071



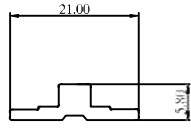
Scale - 2.1

SEC NO-23072



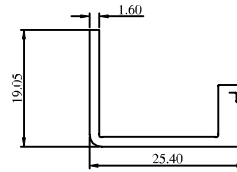
Scale - 2.1
Wt: 1.540 KG/12
40x30

SEC NO-23075



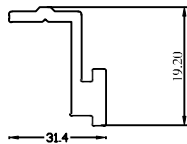
Scale - 2.1
Wt-0.500 KG/12

SEC NO-23076



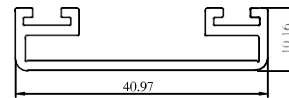
Scale - 2.1
Wt-0.860 KG/12

SEC NO-23077



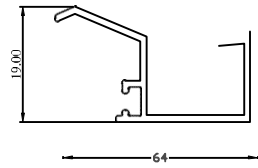
Scale - 2.1
Wt-0.750 KG/12

SEC NO-23078



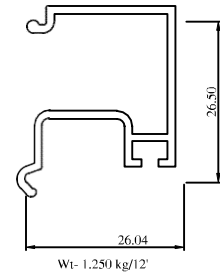
Scale - 2.1
Wt-1.300 KG/12

SEC NO-23079



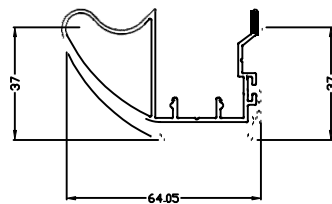
Scale - 2:1
Wt- 0.800 kg/12'

SEC NO-23080



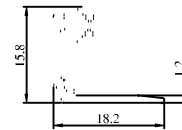
Wt- 1.250 kg/12'

SEC NO-23081



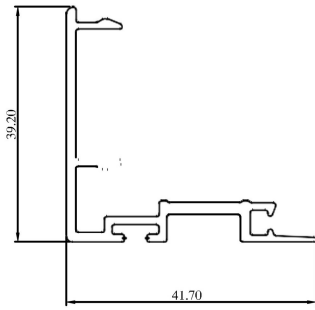
Scale - 1:1
Wt- 2.570 kg/12'

SEC NO-23082



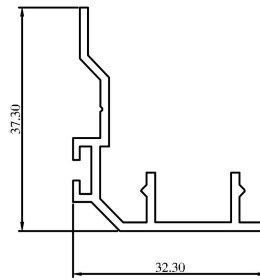
Scale - 2:1
Wt- 0.510 kg/12'
ACE-28

SEC NO-23083



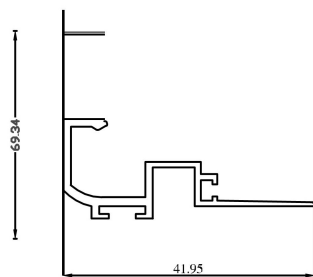
Scale - 2:1
Wt- 1.700 kg/12'

SEC NO-23084



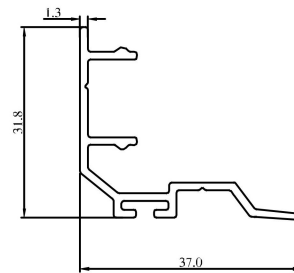
Scale - 2:1
Wt- 2.170 kg/12'

SEC NO-23085



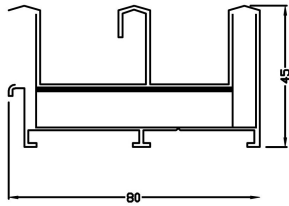
Scale - 2:1
Wt- 1.180 kg/12'

SEC NO-23086



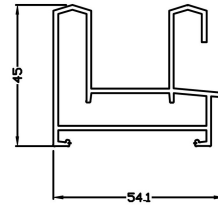
Scale - 2:1
Wt- 1.190 kg/12'
ACE-26

SEC NO-23087



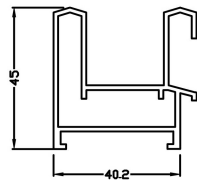
Scale - 1:1
Wt- 4,550 kg/12

SEC NO-23088



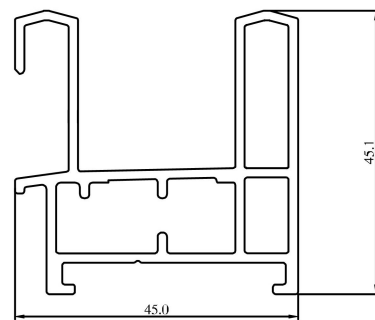
Scale - 1:1
Wt- 3,550 kg/12

SEC NO-23088



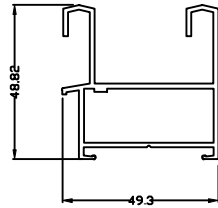
Scale - 1:1
Wt- 3,260 kg/12

SEC NO-23089



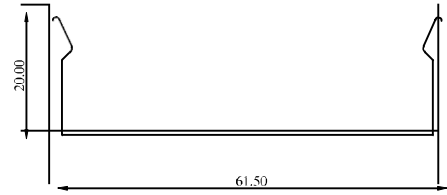
Scale - 2:1
Wt- 3,640 kg/12

SEC NO-23090



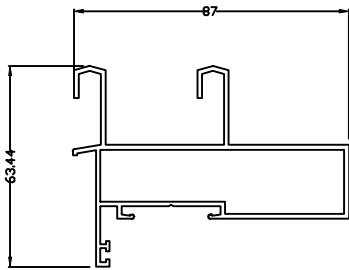
Scale - 1:1
Wt- 3.250 kg/12'

SEC NO-24001



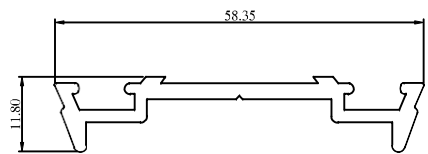
Scale - 2:1
Wt- 1.430kg/12'

SEC NO-23091



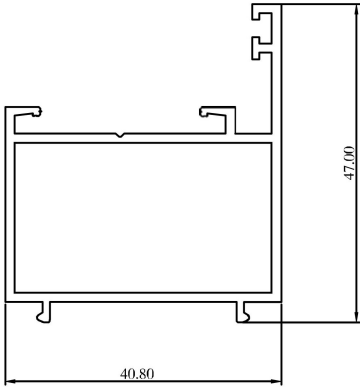
Scale - 1:1
Wt- 4.680 kg/12'

SEC NO-24002



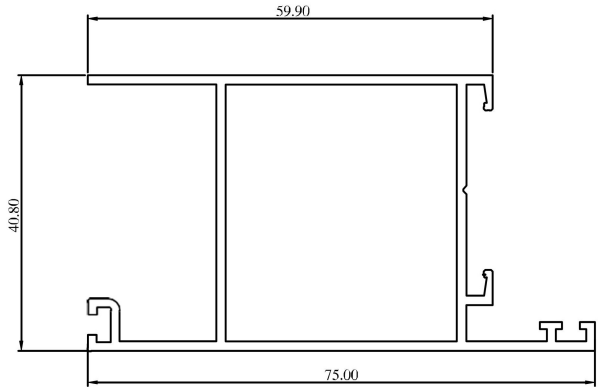
Scale - 2:1
Wt- 1.940 kg/12'

SEC NO-24003

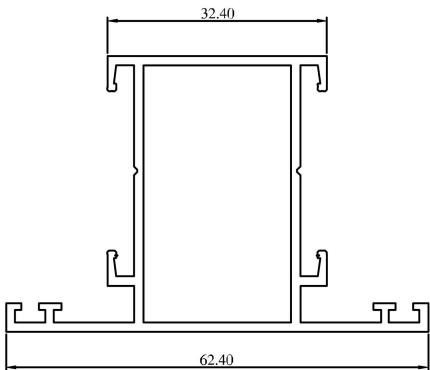


Scale - 2.1
Wt- 2.350 kg/12

SEC NO-24004

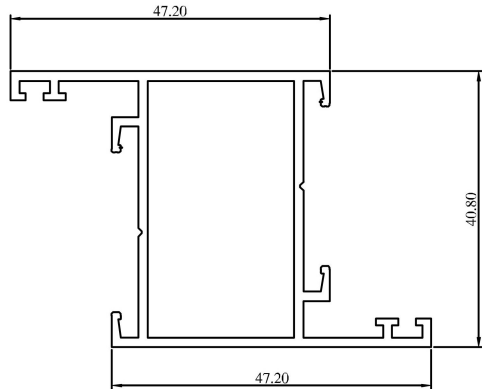


SEC NO-24005



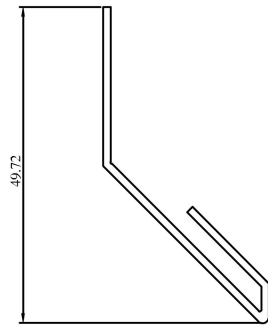
Scale - 2.1
Wt- 2.800 kg/12

SEC NO-24006



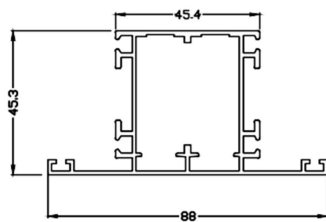
Scale - 2.1
Wt- 2.800 kg/12

SEC NO-24007



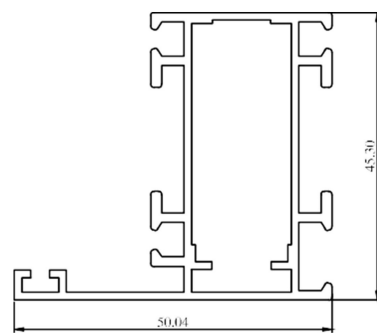
Scale - 2.1
Wt- 0.960 kg/12

SEC NO-24008



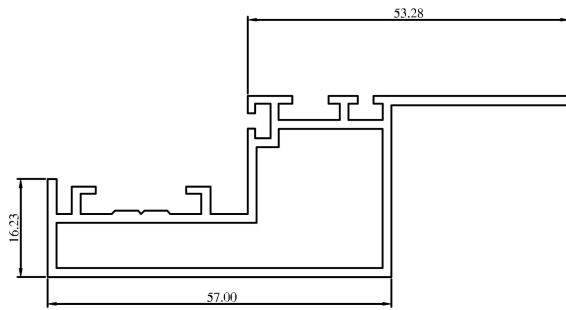
Scale - 1.1
Wt- 3.970 kg/12

SEC NO-24009



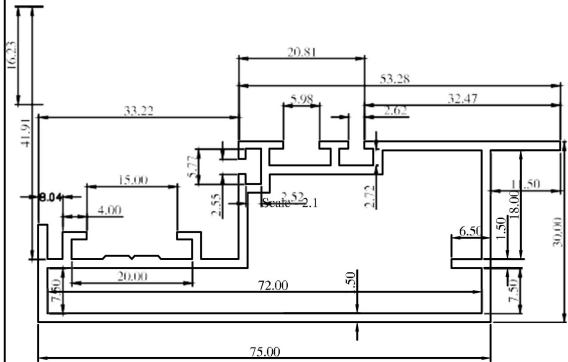
Scale - 2.1
Wt- 2.950 kg/12

SEC NO-24011



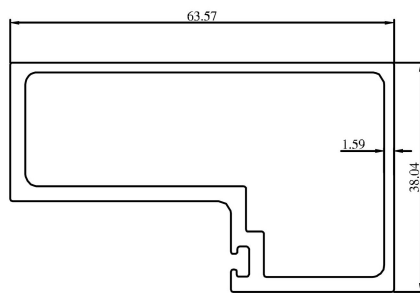
Scale - 2.1
Wi- 3.430 kg/12

SEC NO-24012



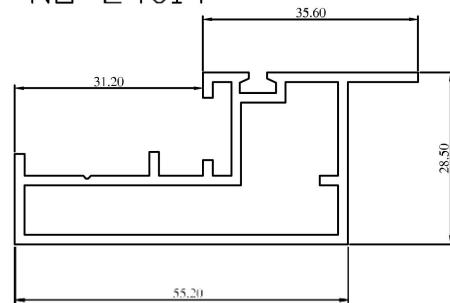
Wi- 3.840 kg/12

SEC NO-24013



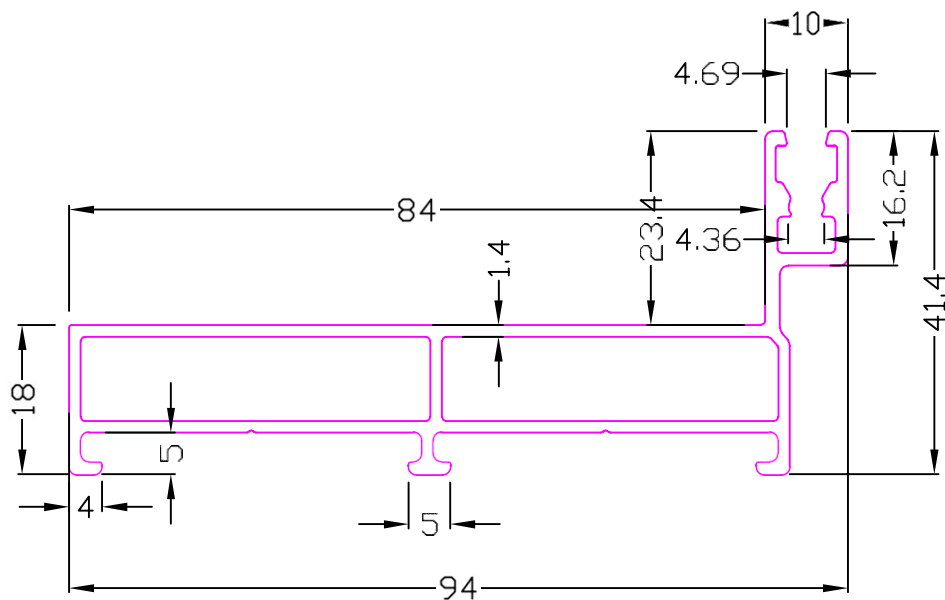
Scale - 2.1
Wi-1.000 KG/12

SEC NO-24014



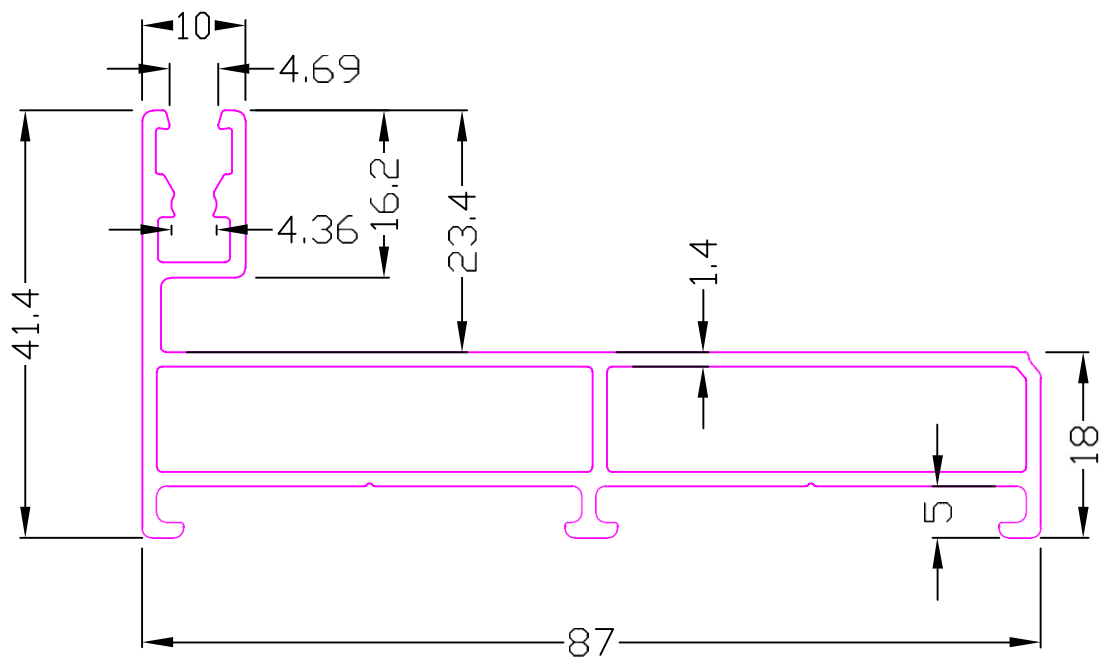
Scale - 2.1
Wi- 3.108 kg/12

SECTION NO- 28010



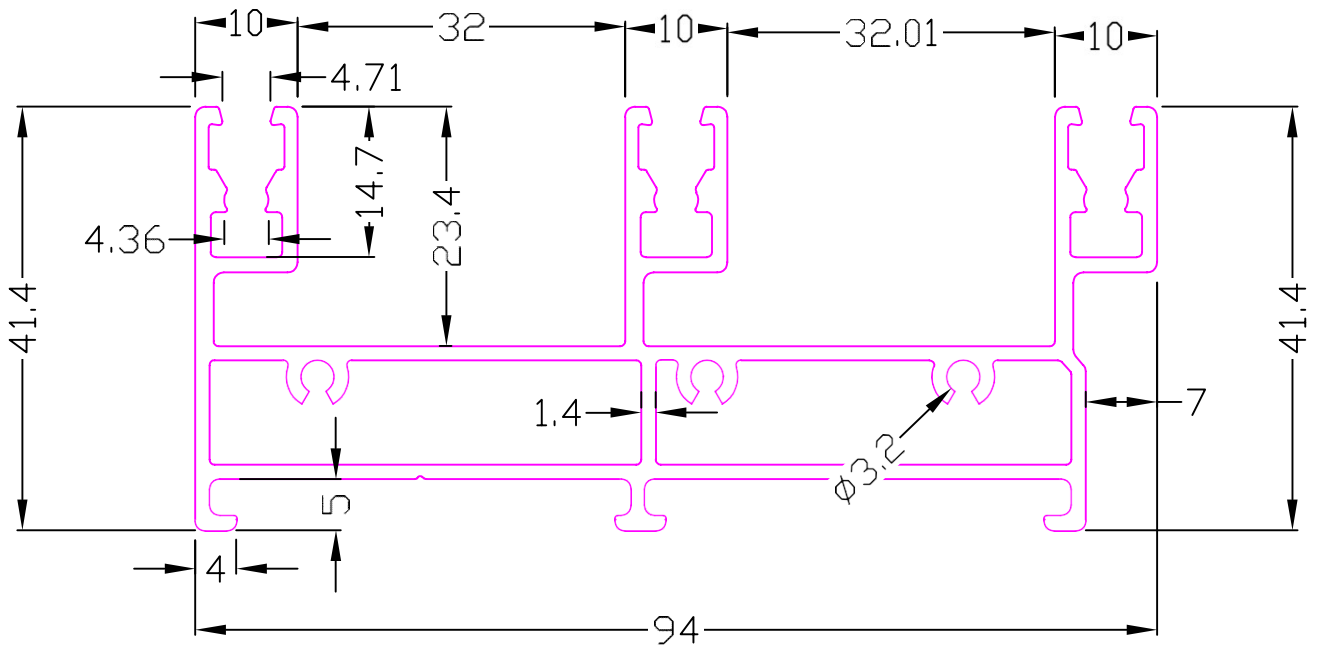
Scale - 1.1
Wt- 3.960/12'

SECTION NO:-28011



Scale - 1.1
Wt- 3.960/12'

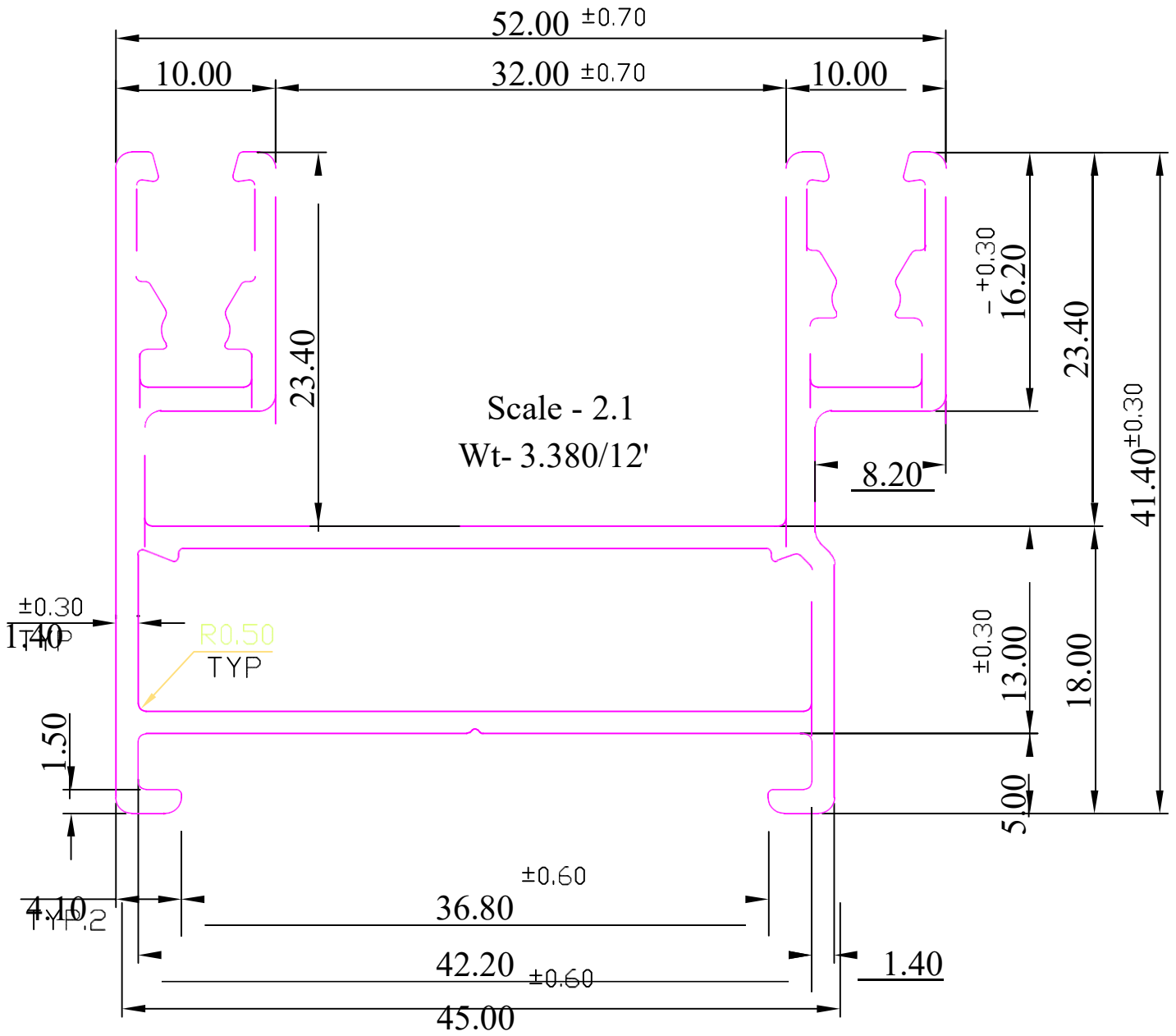
SECTION NO- 28012



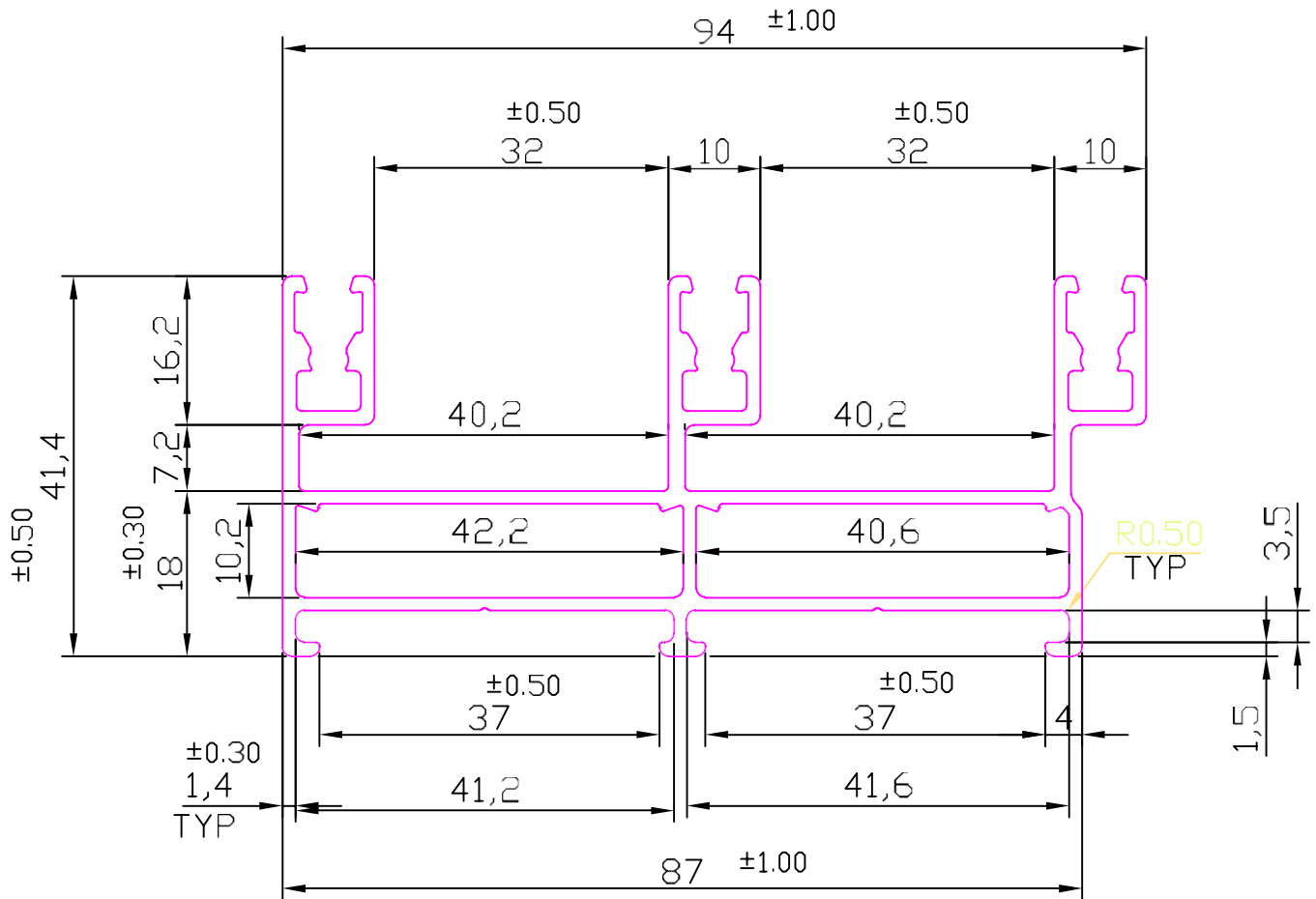
Scale - 1.1

Wt- 5.960/12'

SECTION NO- 28014

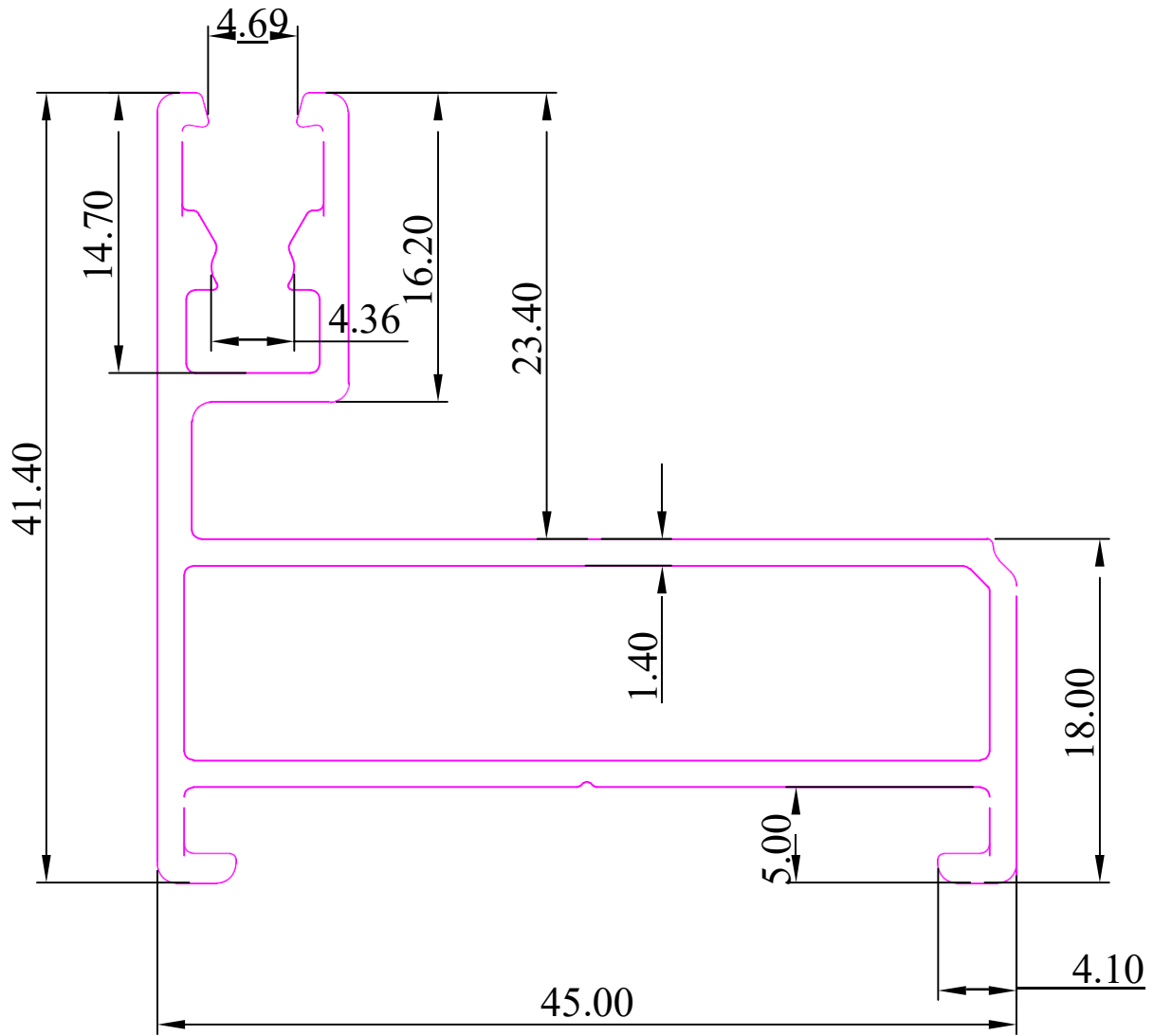


SECTION NO - 28013



Scale - 1.1
Wt- 5.660/12'

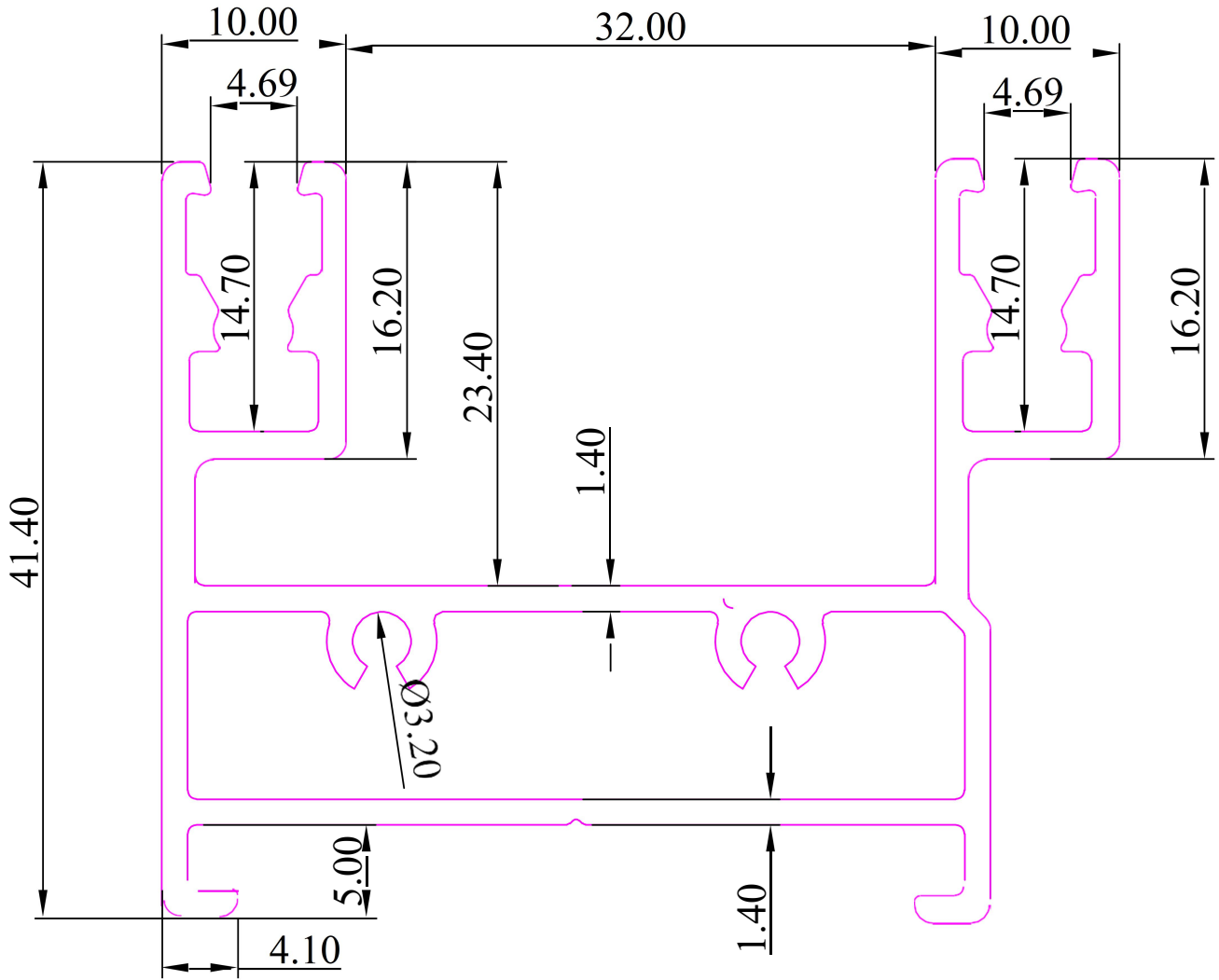
SECTION NO - 28015



Scale - 2.1

Wt- 2.500 kg/12'

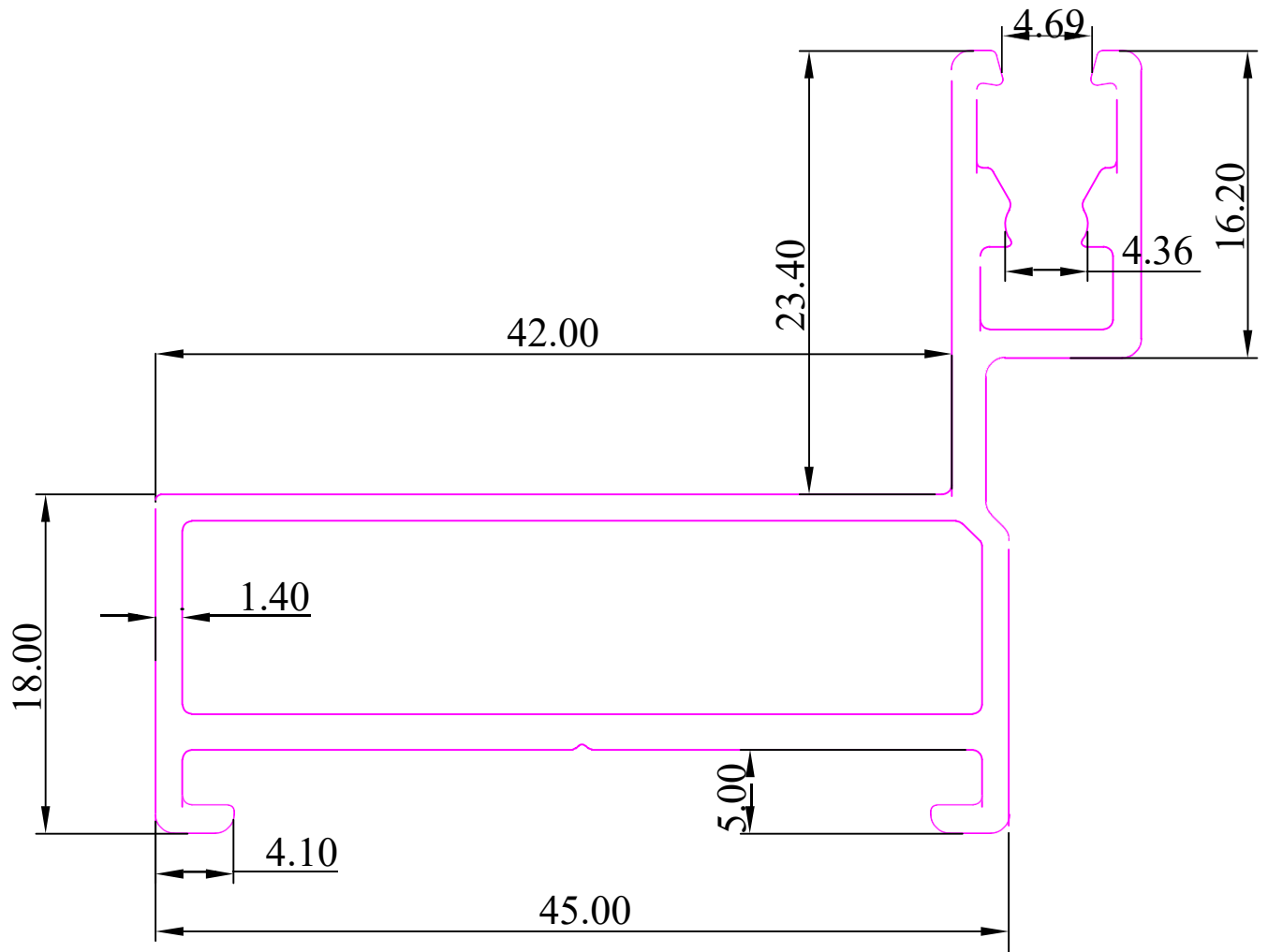
SECTION NO - 28017



Scale - 2.1

Wt- 3.600/12'

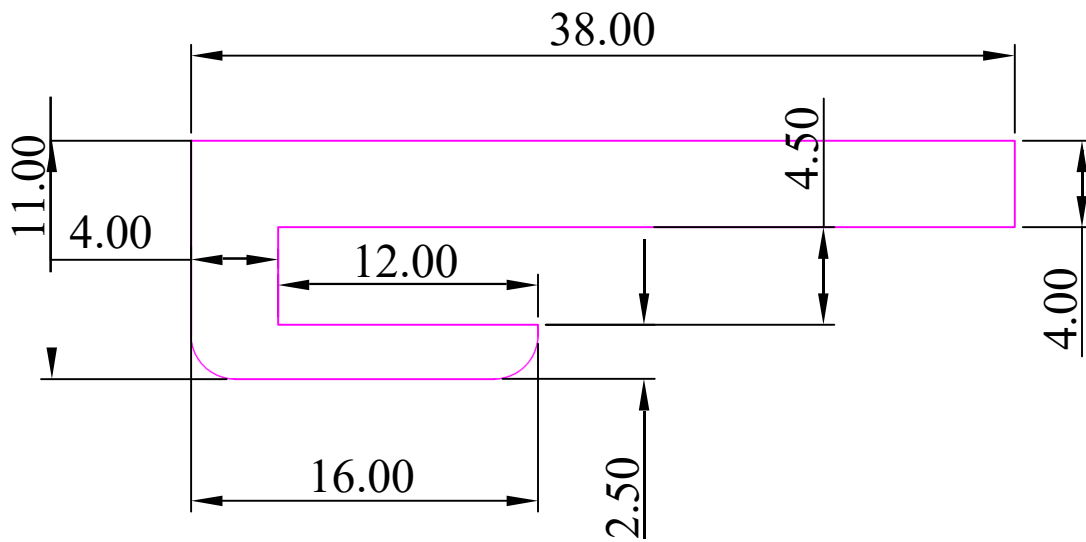
SECTION NO- 28016



Scale - 2.1

Wt- 2.500 kg/12'

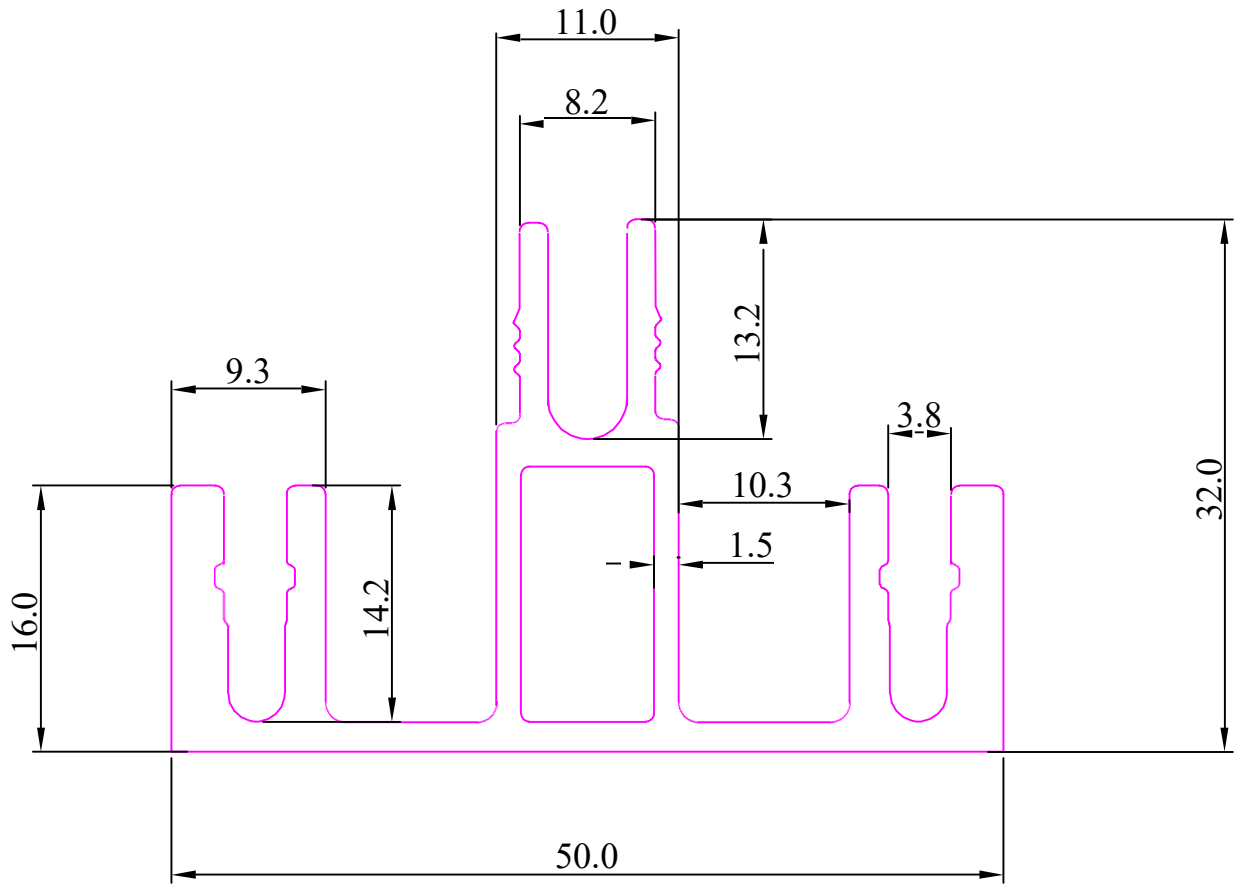
SECTION NO- 28027



Scale - 2.1

Wt- 2.000/12'

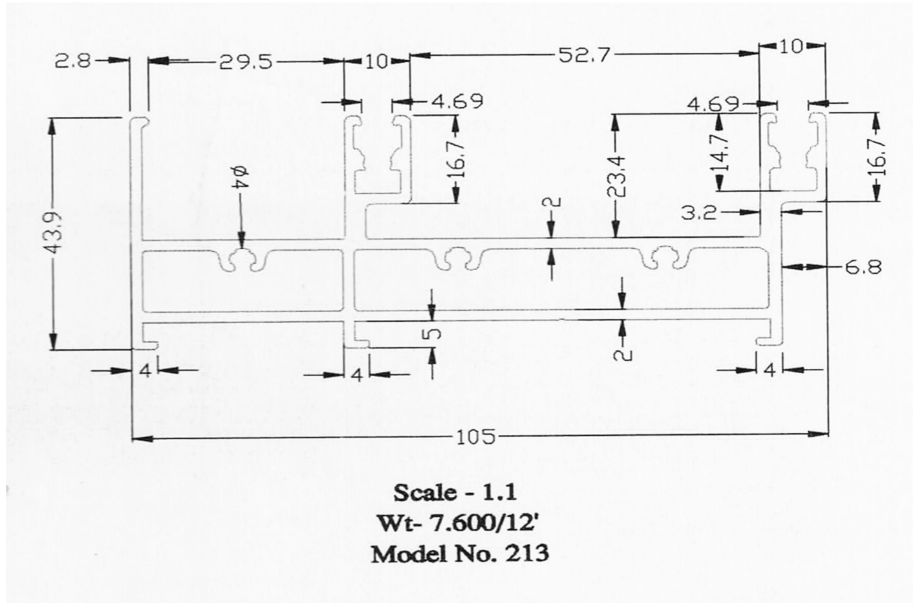
SECTION NO -28029



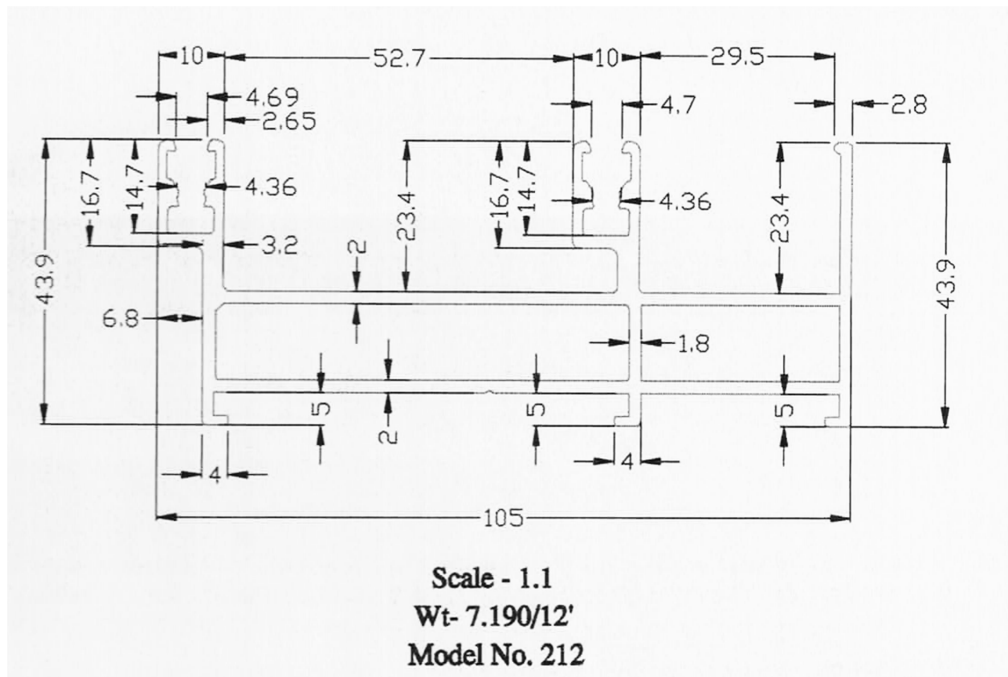
Scale - 2.1

Wt- 3.580 kg/12'

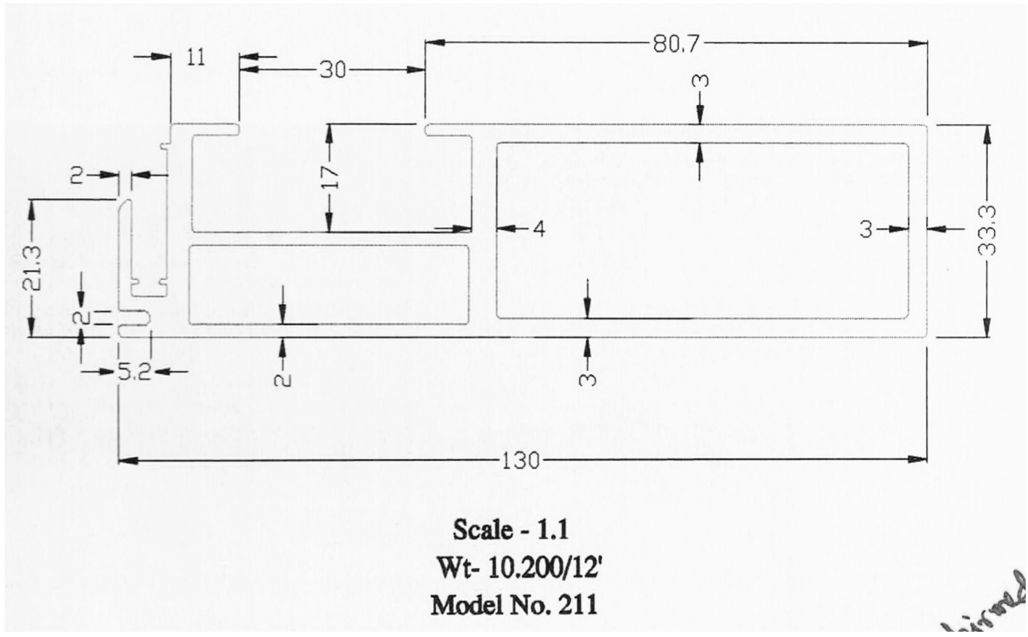
SECTION NO- 28018



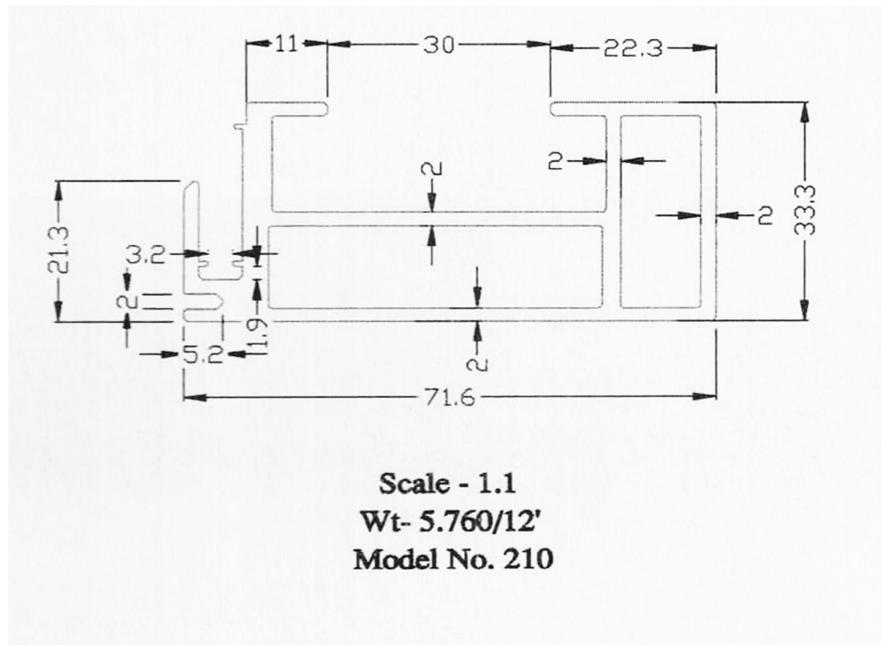
SECTION NO- 28019



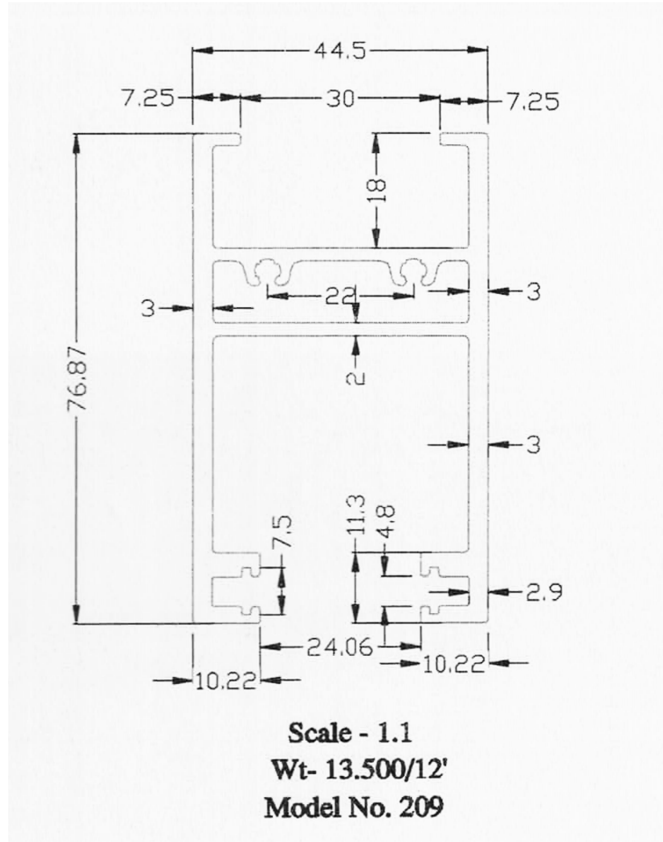
SECTION NO- 28020



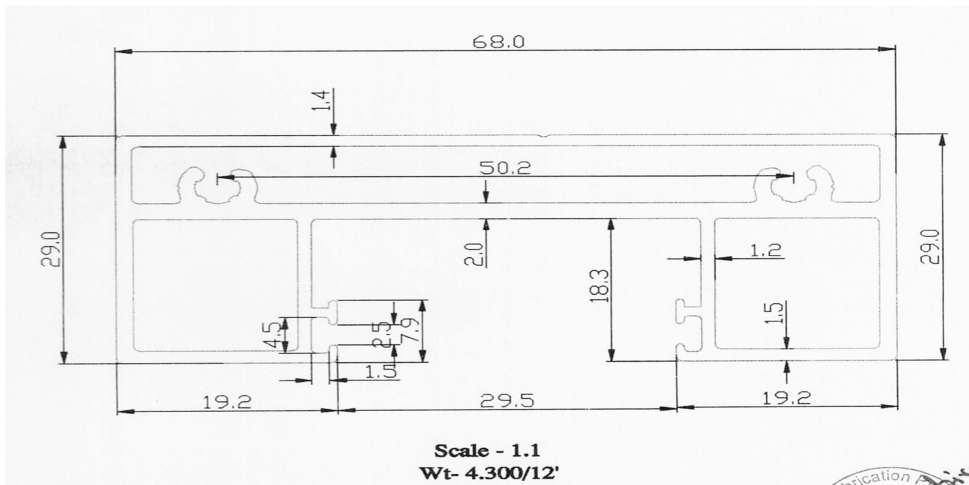
SECTION NO- 28021



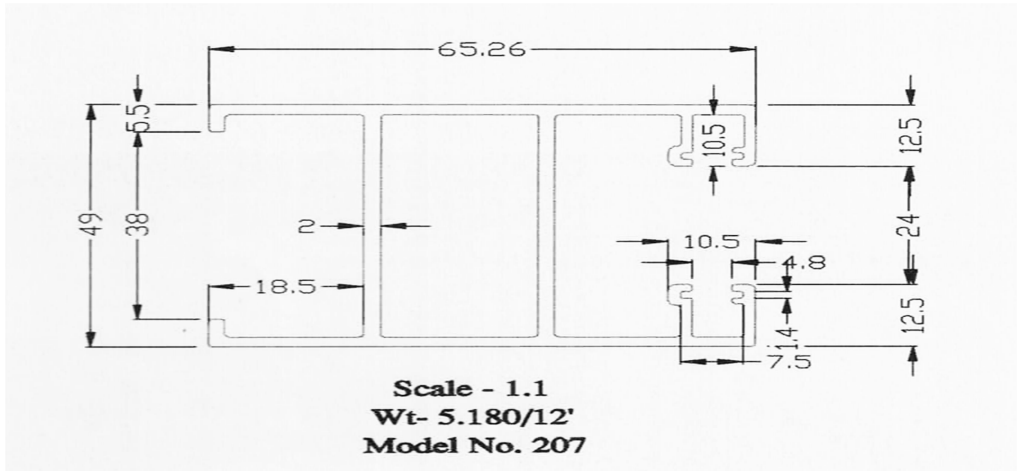
SECTION NO- 28022



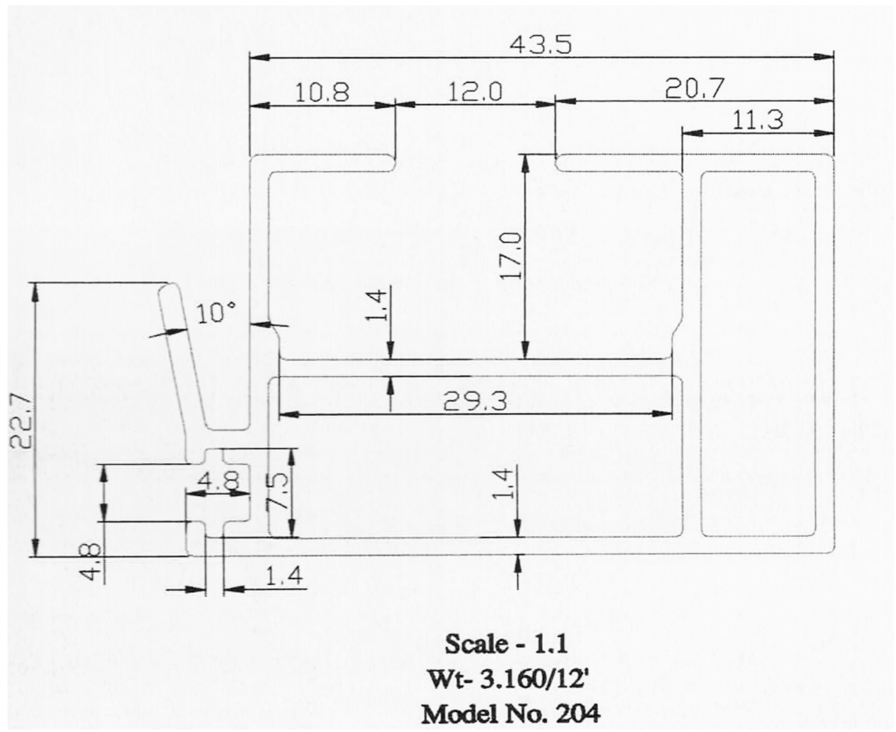
SECTION NO- 28023



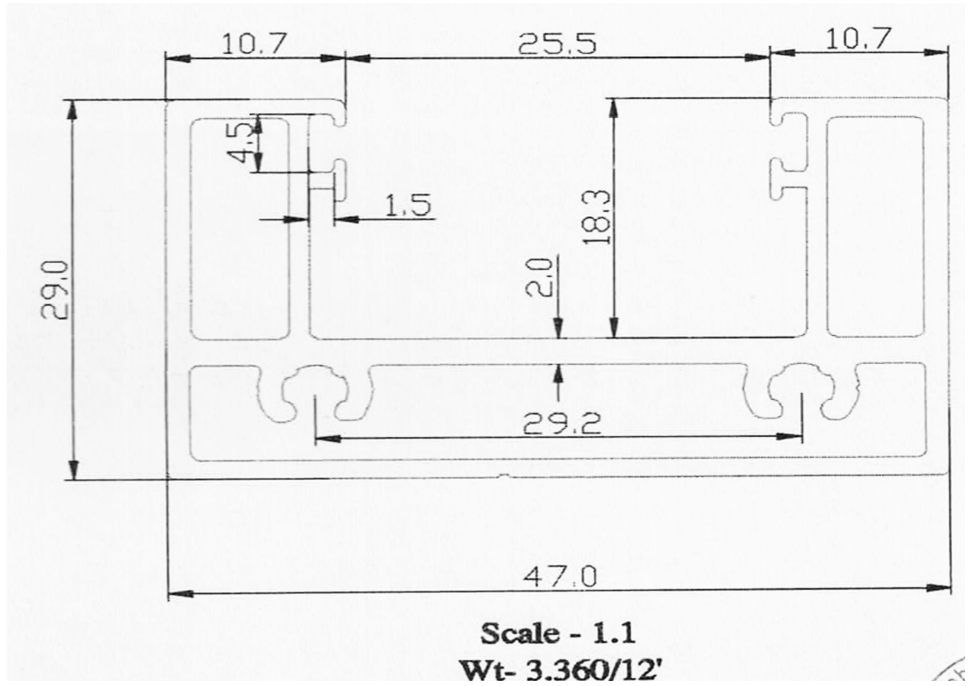
SECTION NO- 28024



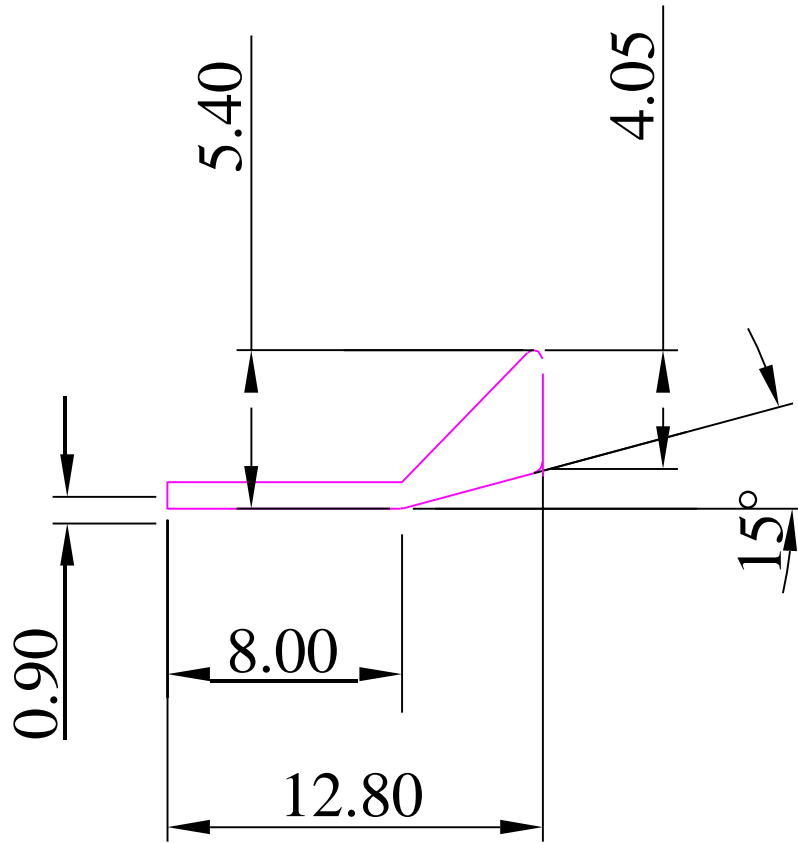
SECTION NO- 28025



SECTION NO- 28025



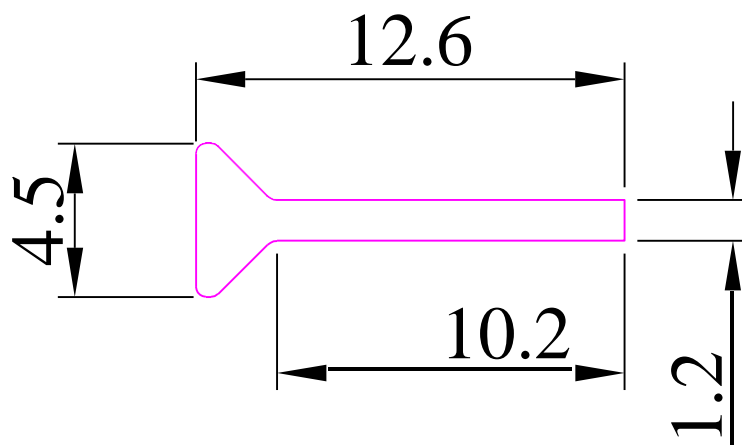
SECTION NO-21200



Scale - 1.1

Wt- 0.190 kg/12'

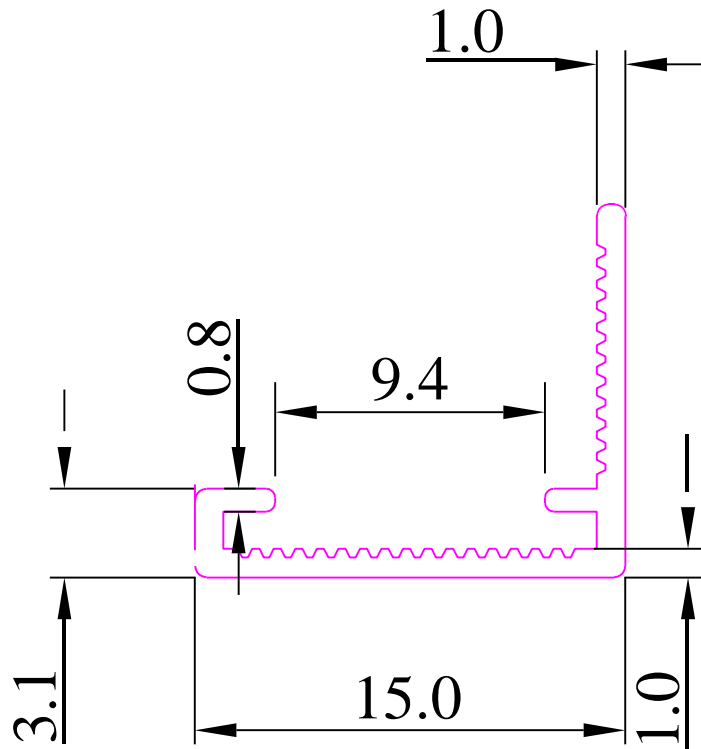
SECTION NO-21300



Scale - 2.1

Wt- 0.190 kg/12'

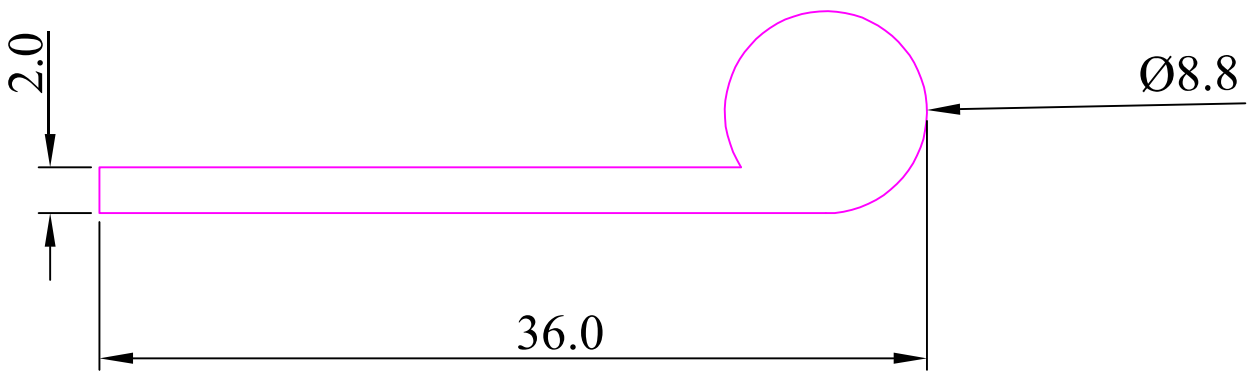
SECTION NO-21035



Scale - 2.1

Wt- 0.280 kg/12'

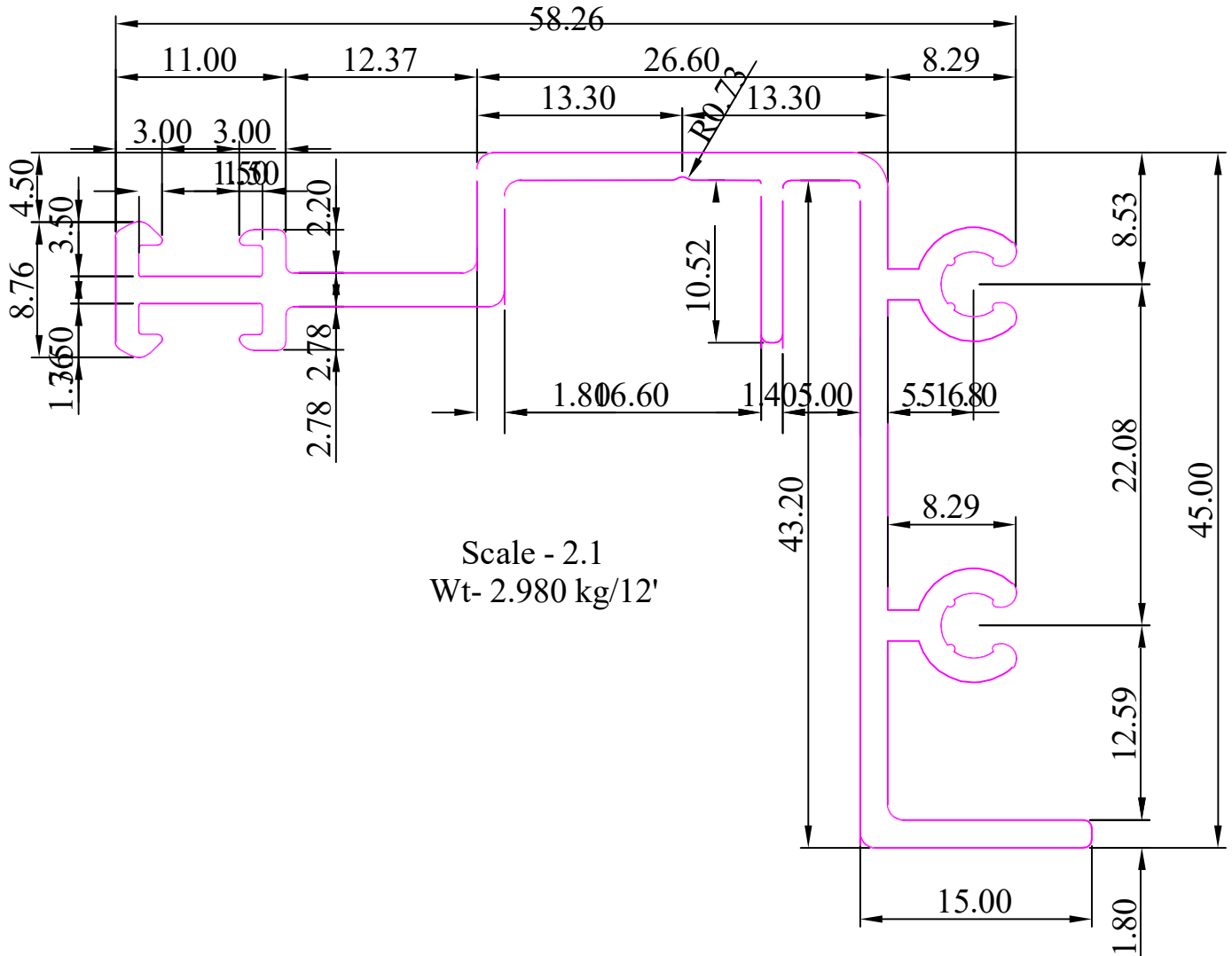
SECTION NO -26010



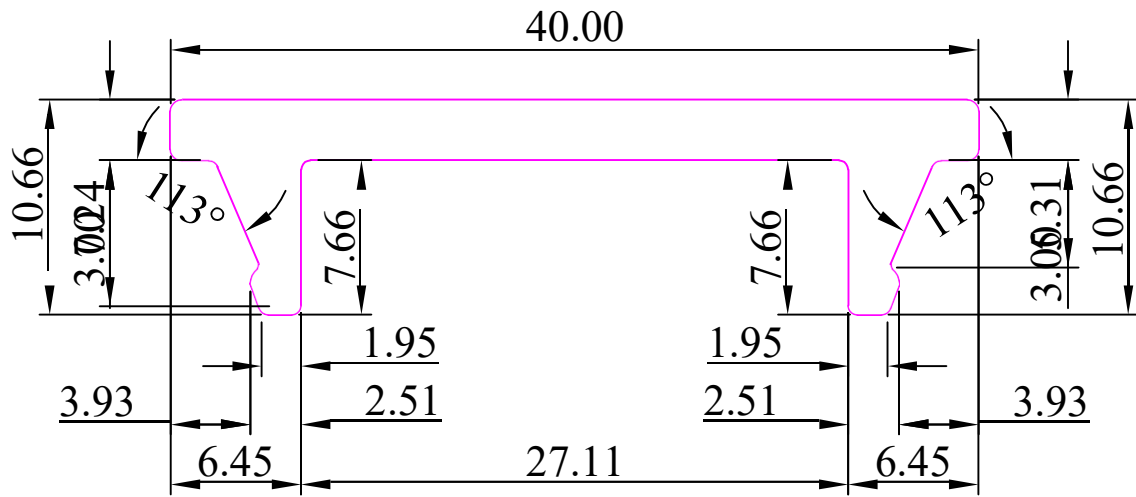
Scale - 2.1

Wt- 1.164 kg/12'

SECTION NO-26012

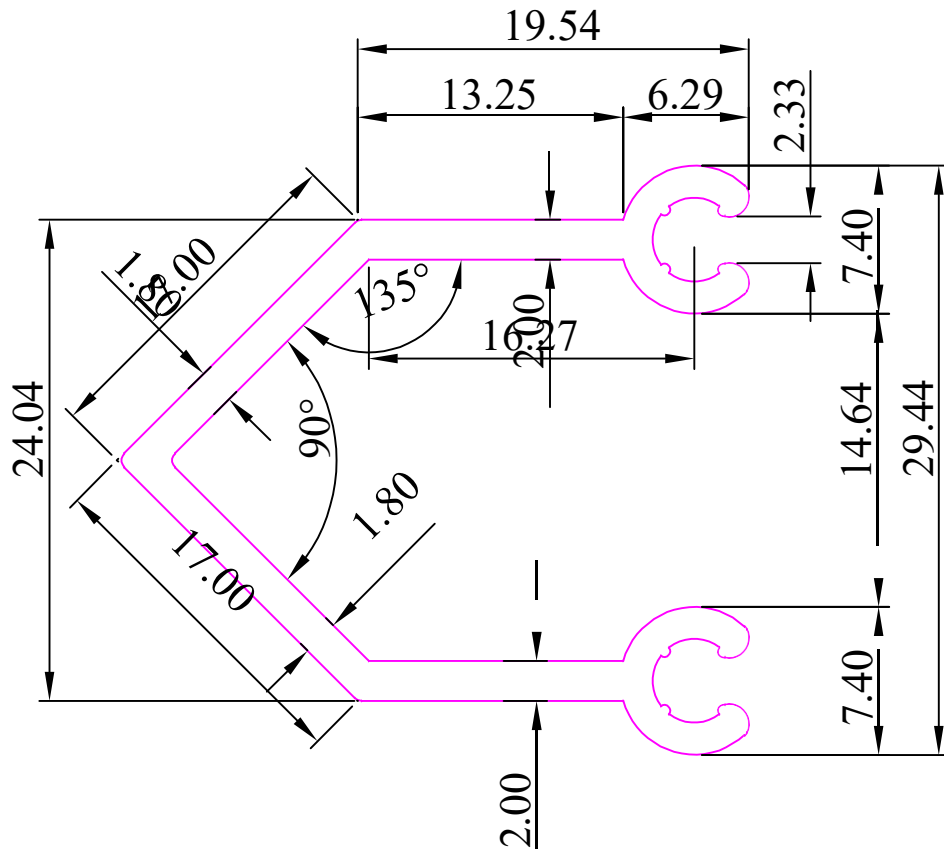


SECTION NO -26014



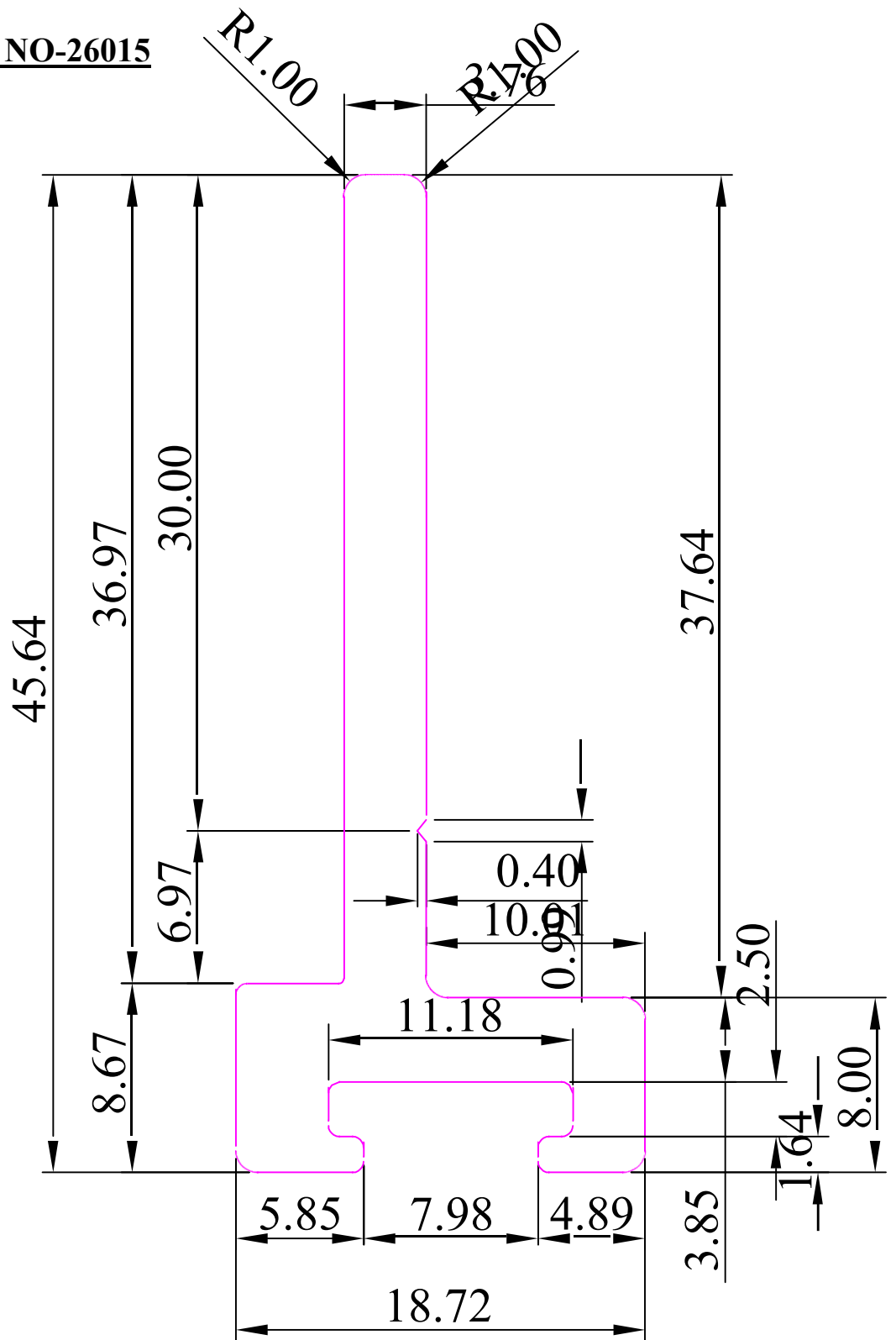
Scale - 2.1
Wt- 1.600 kg/12'

SECTION NO-26013



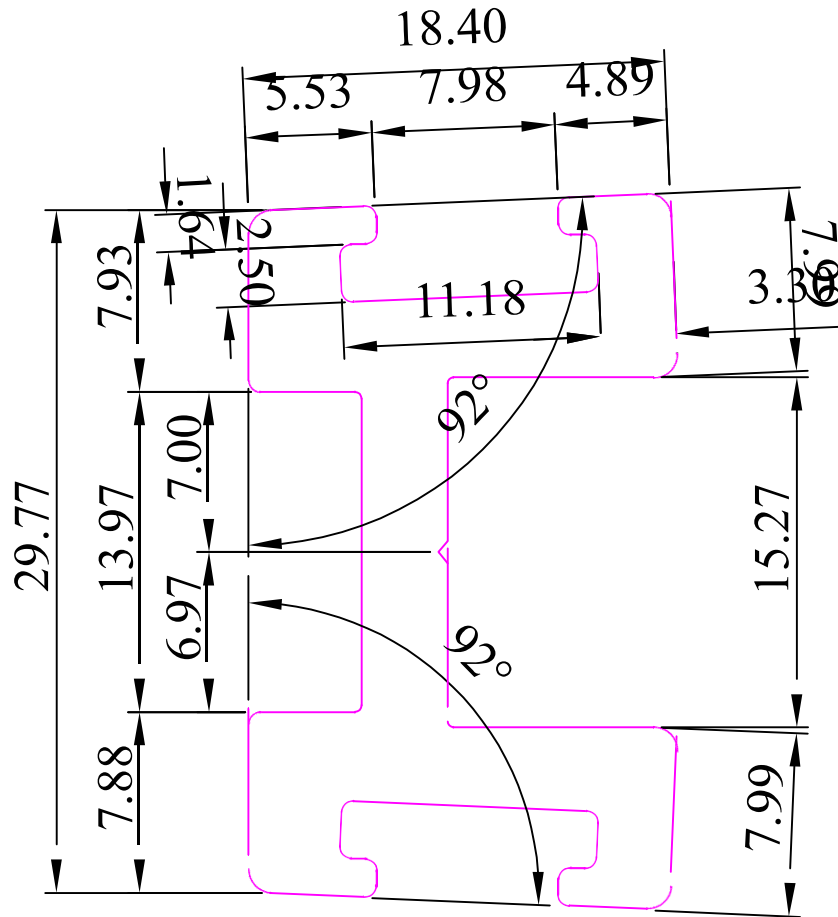
Scale - 2.1
Wt- 1.530 kg/12'

SECTION NO-26015



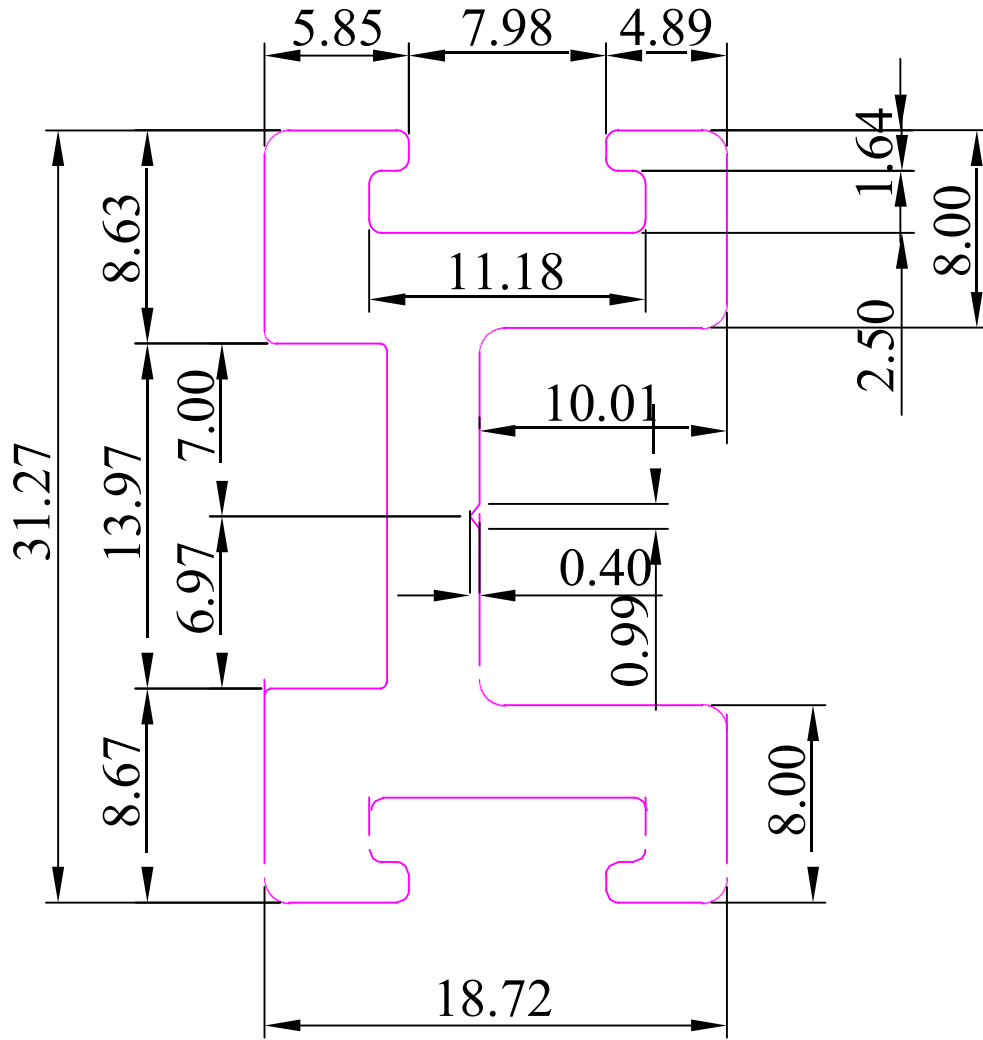
Scale - 2.1
Wt- 2.470kg/12'

SECTION NO-256016



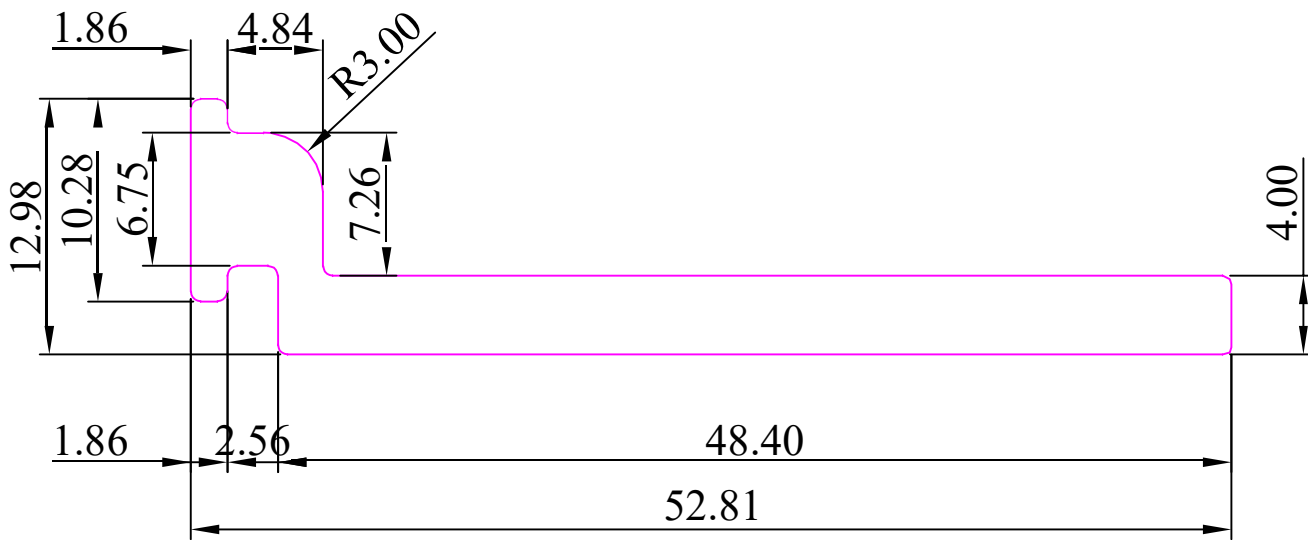
Scale - 2.1
Wt- 2.570kg/12'

SECTION NO-26017



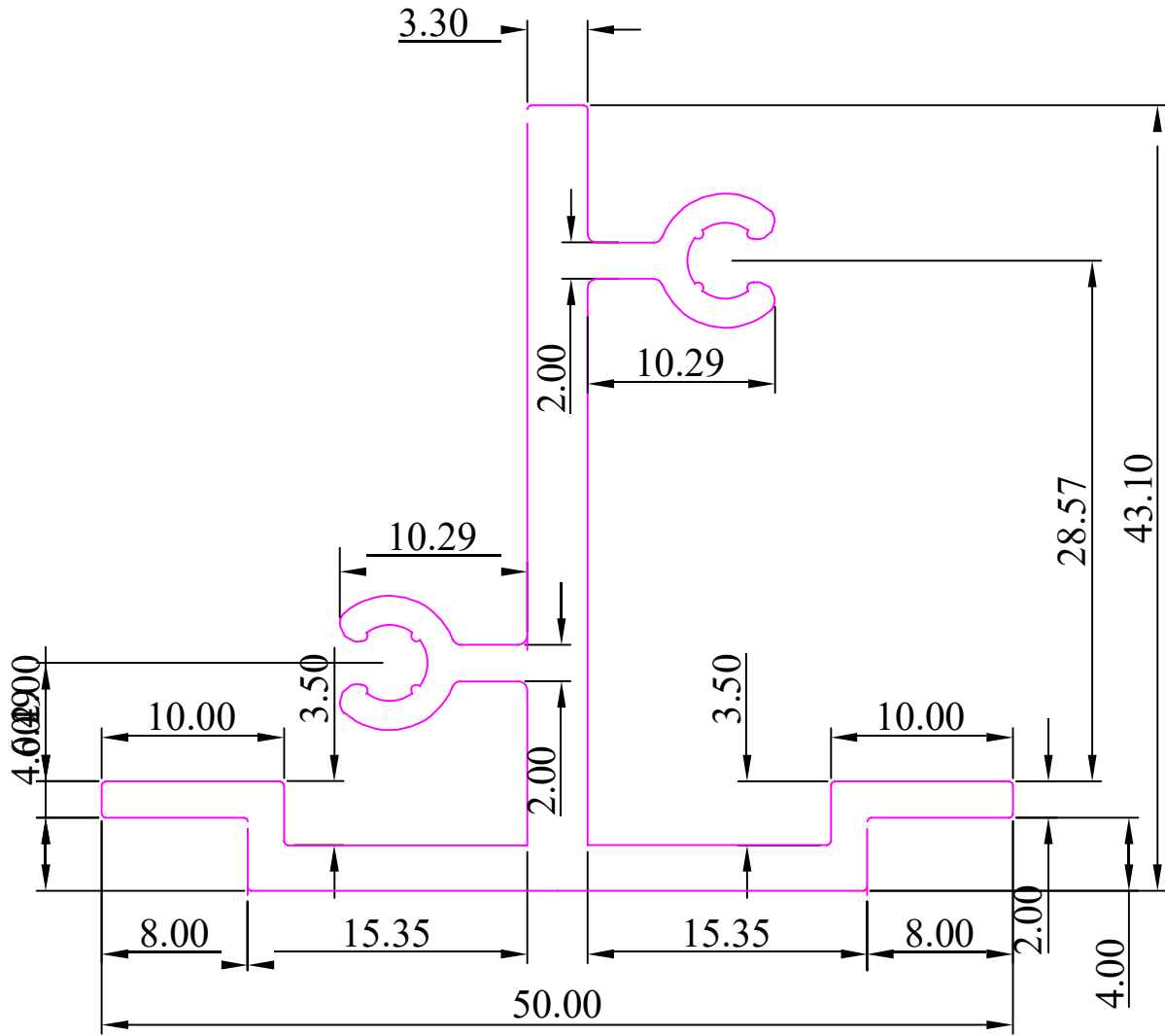
Scale - 2.1
Wt- 2.740kg/12'

SECTION NO-26018



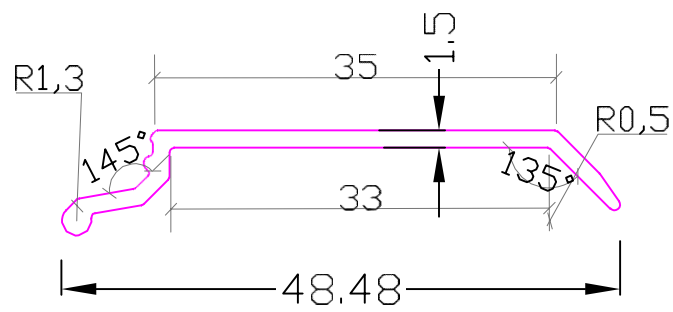
Scale - 2.1
Wt- 2.400 kg/12'

SECTION NO-26019



Scale - 2.1
Wt- 3.220 kg/12'

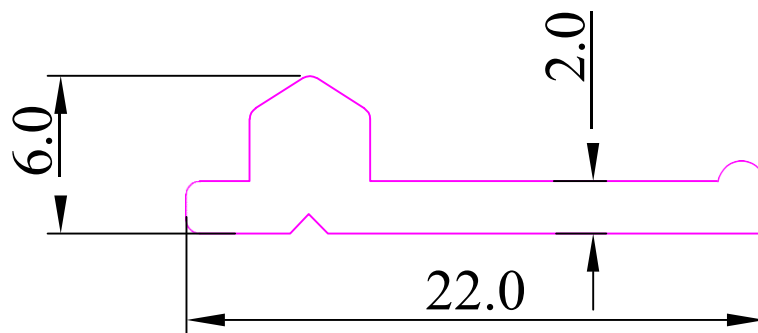
SECTION NO-26021



Scale - 1.1

Wt- 0.830 kg/12'

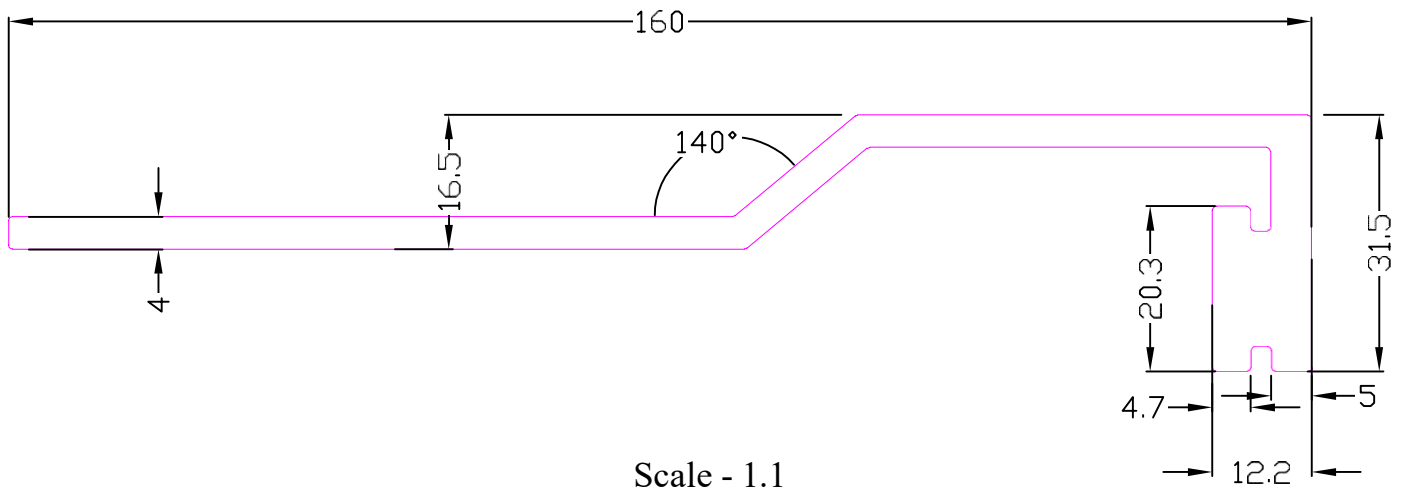
SECTION NO-26022



Scale - 2.1

Wt- 0.580 kg/12'

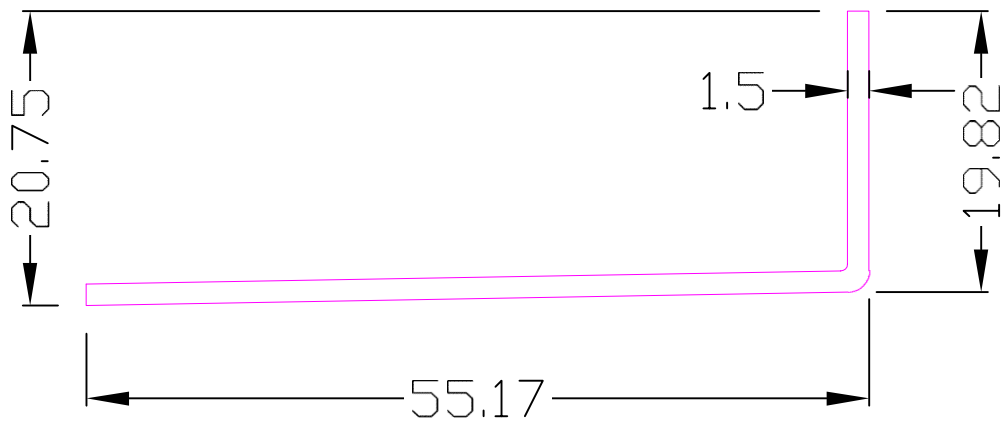
SECTION NO-26023



Scale - 1.1

Wt- 9.000 kg/12'

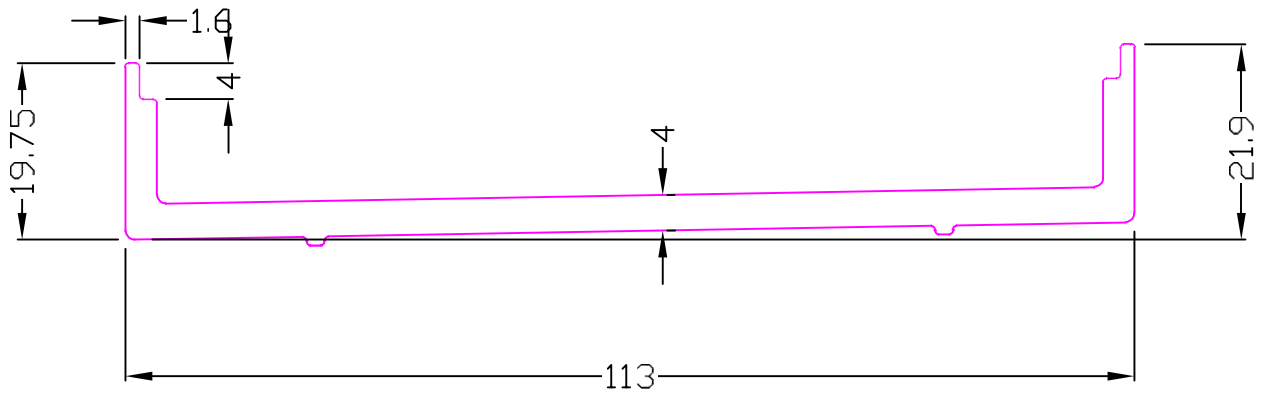
SECTION NO-26024



Scale - 1.1

Wt- 1.000 kg/12'

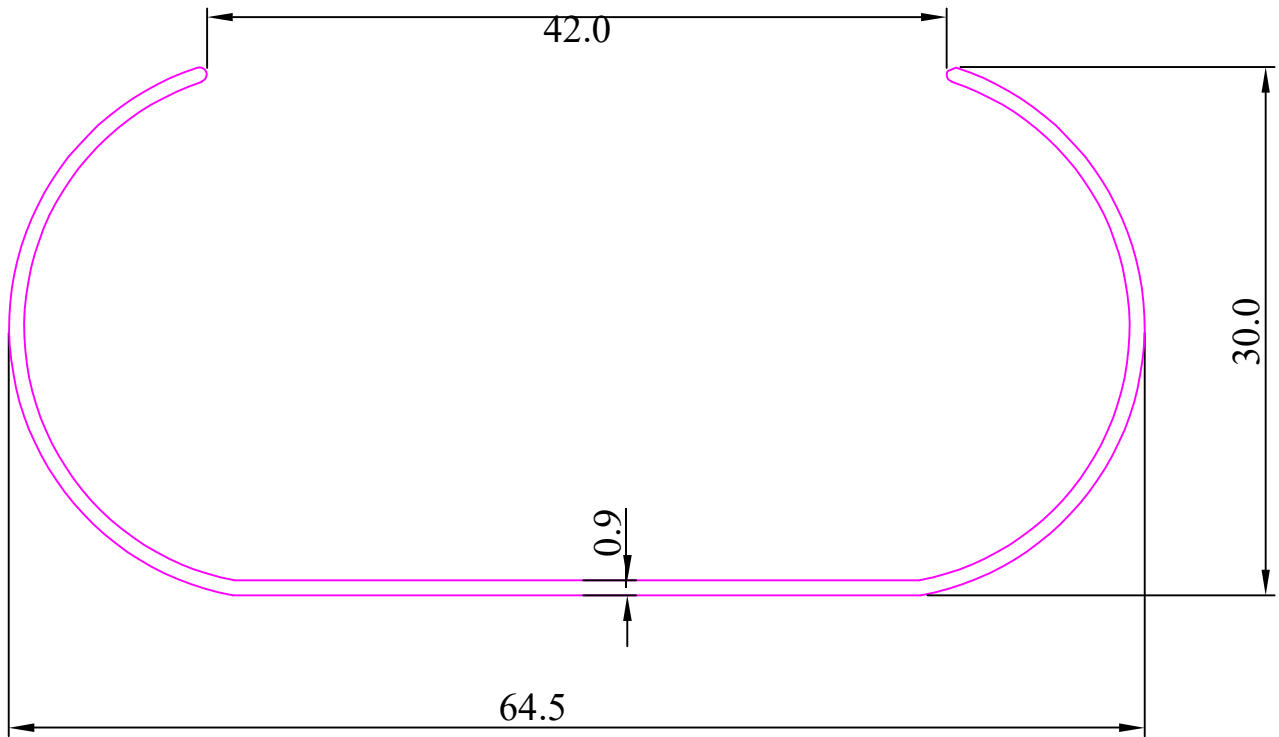
SECTION NO-26025



Scale - 1.1

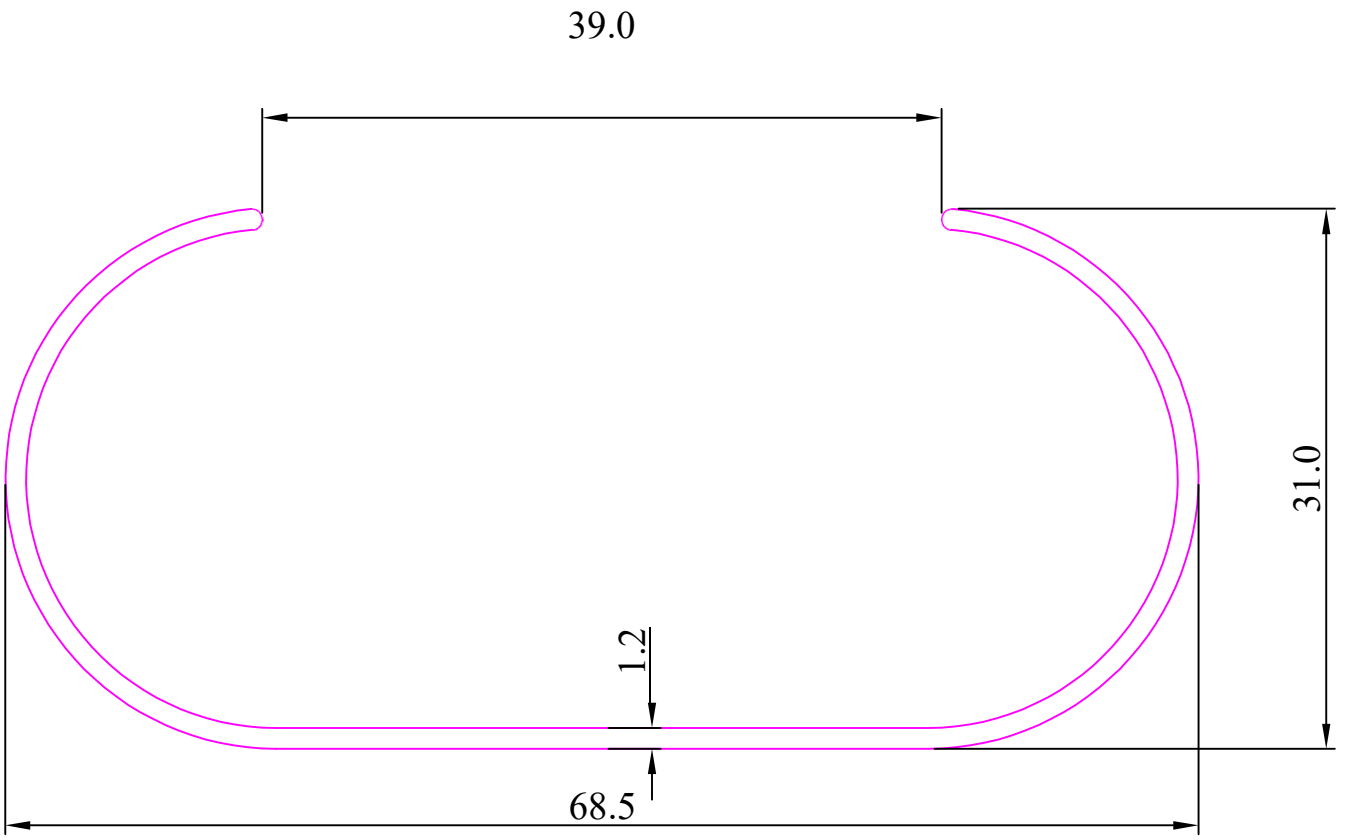
Wt- 5.400 kg/12'

SECTION NO-20500



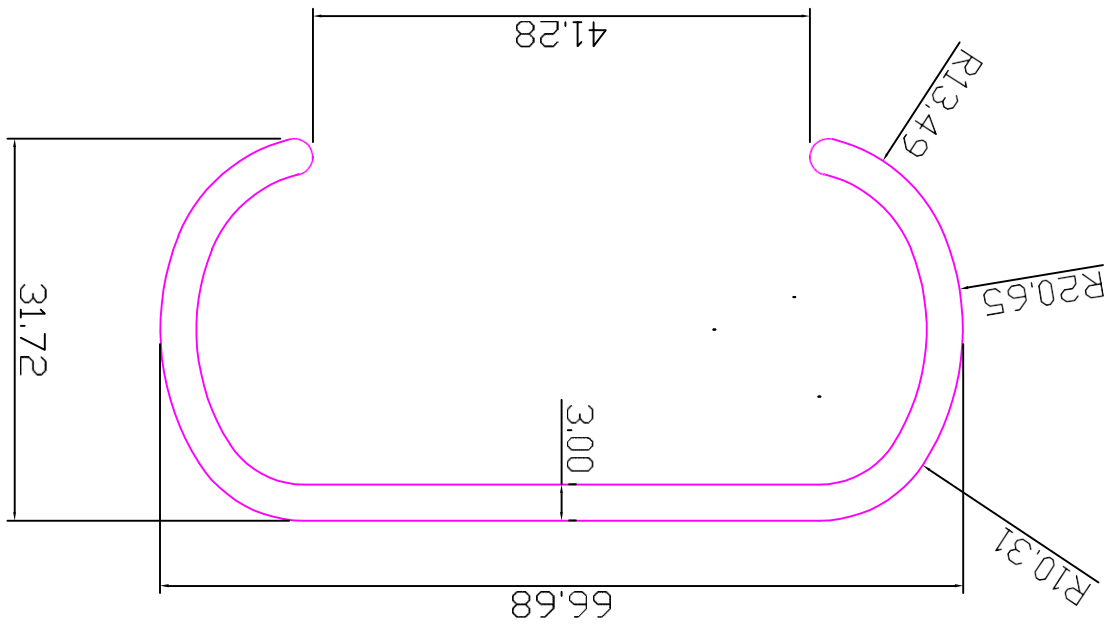
Scale - 2.1
Wt- 0.950 kg/12'

SECTION NO-20501



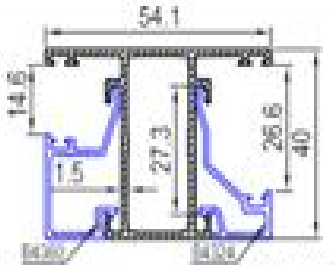

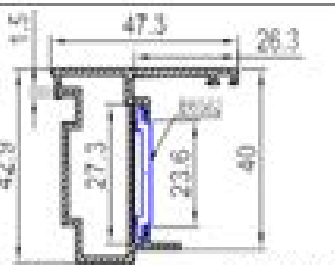
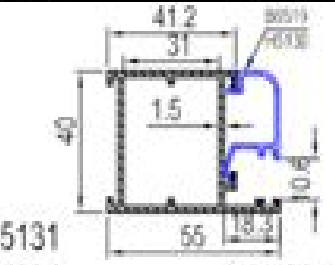
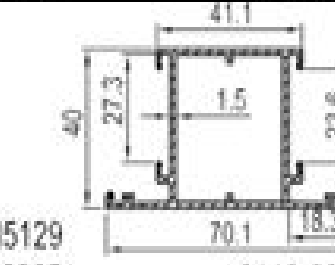

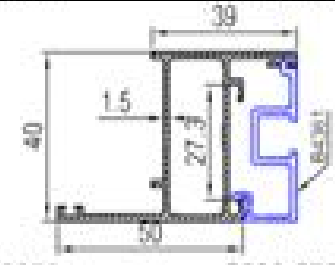
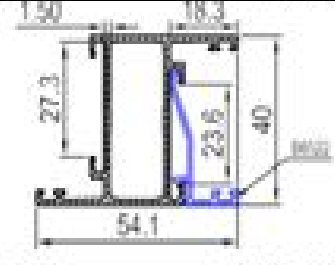
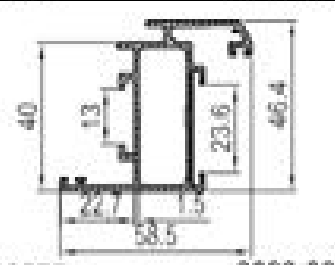
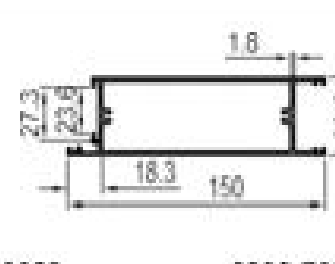
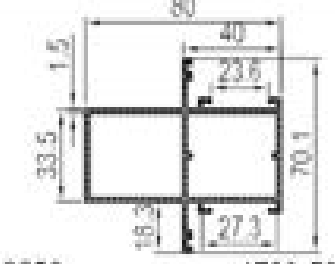
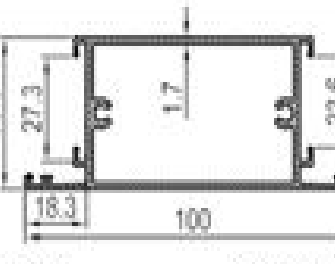
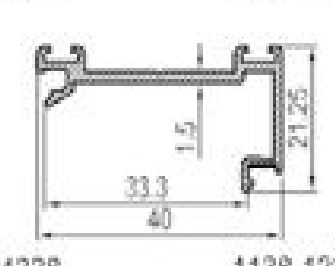

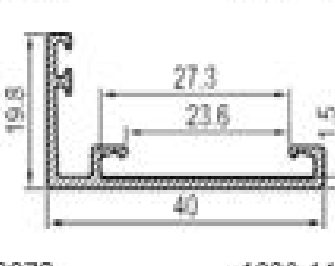

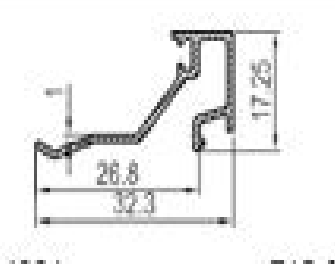
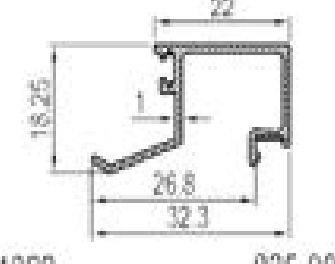
Scale - 2.1
Wt- 1.520 kg/12'

SECTION NO - 20525

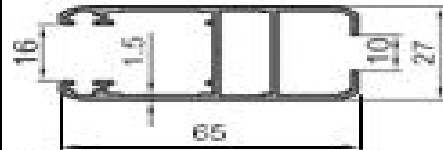


wt = 3.550 kg/12'

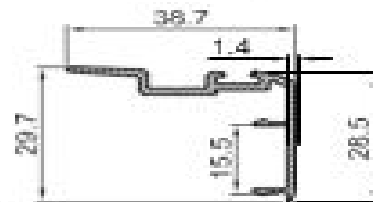
40 mm.(Type-3) Casement Series.

 <p>B8857 2423-2665</p>	 <p>B8858 2108-2319</p>	 <p>B8863 2423-2665</p>
 <p>H5131 B8864 2840-3065</p>	 <p>H5129 B8865 3110-3360</p>	 <p>B8866 3118-3430</p>
 <p>B8873 2503-2753</p>	 <p>B8876 2419-2661</p>	 <p>B8877 3023-3325</p>
 <p>B8868 6936-7629</p>	 <p>B8850 4739-5213</p>	 <p>B8867 4729-5202</p>
 <p>B4338 1138-1232</p>	 <p>B6518 1416-1557</p>	 <p>B6678 1030-1190</p>
 <p>B6522 587-645</p>	 <p>B4324 745-820</p>	 <p>B4360 825-905</p>

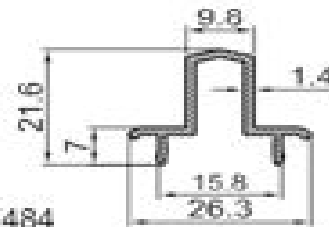
27 mm. Euro Sliding Series



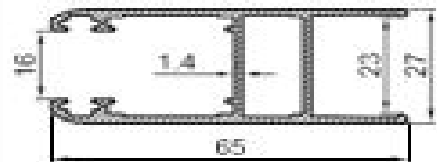
H7486
B8861 3126-3438



H7483
B6521 1121-1233

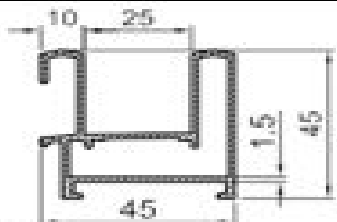


H7484
B6527 770-950

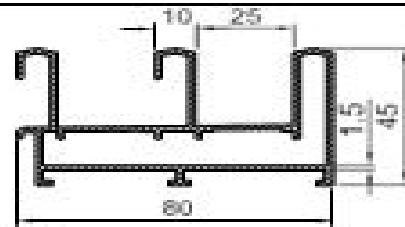


B8862 2830-3170

Two & Three Track Bottom

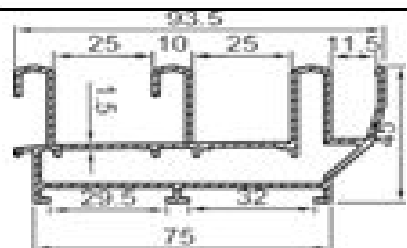


H7485
B8856 3342-3676

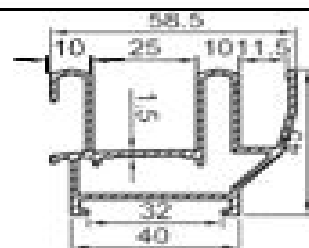


H7487
B8883 5160-5676

Two Track & Three Track Bottom .



B8780 5710 - 6295



B8779 3865 - 4235