



**ALPRO EXTRUSION**  
Private Limited



**ALPRO EXTRUSION [P] LTD**  
(SSI UNIT)

Manufacturer Of Aluminium Extrusions

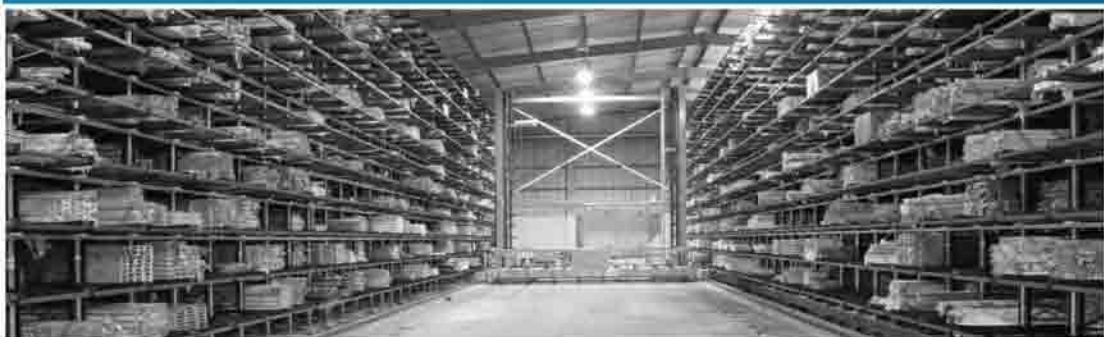
“Let's create a stronger  
World in nature friendly way”

Formerly known as Crown Utensils [P] Ltd

Alpro Extrusion [P] Ltd, formerly known as Crown Utensils [P] Ltd came into existence in 2010. The journey from manufacturing aluminium extrusion to becoming one of the best makers of Quality Aluminium Extrusions have been filled with accomplishments and accolades. Alpro Extrusion aims to have a global presence as a leading global manufacturer of high quality Aluminium extrusion and their components. The endeavours of the organization are focussed towards achieving all-round excellence. The organization seeks to accomplish a fusion of traditional methods and innovative concepts to supply the best quality product. Alpro Extrusion manufactures wide variety Aluminium extrusions that meet diversified usage.

Alpro Extrusion has been maintaining its utmost standards of precision and quality and founded on the philosophy of ensuring uncompromising satisfaction to our customers. We have excellent time delivery of all the versatile extrusion products and these products are adding a new dimension to the modern building construction technology and to our business. Alpro Extrusion [P] Ltd as the acknowledged market leaders have set up benchmarks for quality, timely delivery and client satisfaction. We have a unique combination of being flexible and an ability to react very quickly to changes in designs and specifications. This has ensured that our products and services to all our customers have been acclaimed internationally. From the beginning, we have always had a strong foundation of adaptability and experience. Always working very closely with customers, we have developed our products and services in tune with the market developments and requirements.

"Meeting with customer's need and satisfaction is the true achievement", Alpro Extrusion believes and follows this only statement at the time of manufacturing the products. This idea has helped Alpro Extrusion to set a clear picture towards company's goal. Alpro Extrusion is all set to have a wide range of all kind extrusions in near future. Alpro Extrusion have well known in eastern part of the country.



ALPRO EXTRUSION currently has automatic hydraulic presses with a production capacity of 3,000 MT per annum. The company offers the standard extrusions profiling and also is able to take care of specific designs and requirements.

- ✓ Automated Hydraulic Extrusion Presses
- ✓ Capacity: 3000 MT per annum
- ✓ Die Library: 1000
- ✓ We produce profiles ranging from 10mm - 150 mm CCD
- ✓ Section weight up to 17 kg per piece
- ✓ Wall thicknesses minimum 0.5mm - 20 mm
- ✓ Cut lengths up to 6-7m
- ✓ Standard alloy range: 6000 series, 1000 series (6351, 6063, 6061, 1050, 1100)

## MISSION

To become the most preferred extrusion company, focusing on manufacturing the high quality product with excellent service consistently.

## VISION

We shall be producing high quality aluminium extrusions with our organizational expansion so that we shall always be able to meet the expectations of our all business associated people and specially our consumers.

## QUALITY CONTROL AND COMPLIANCES


At Alpro Extrusion, we do not compromise on quality; we walk an extra mile to sustain the quality. What we have done is that we have standardized the process of quality compliance checks. The quality compliance tests are not carried out randomly but it is a well defined process carried out continuously at every stage of production. An error does not become a mistake until you refuse to correct it. With this principle the Alpro Extrusion has in place a complete traceability system to trace down the root cause of deviation, should they happen to occur. We are fully geared with the requisite technical expertise and quality control mechanism, which leads us to successfully meet even the bulk orders of the clients. Additionally, our streamlined administration, regular follow-ups with the clients and quick order dispatch has enabled us to win the faith and trust of the clients.




**Technical Specification**
**Wrought alloys : Near equivalent designations**

INDIA		U.S.A.	BRITAIN	CANADA	GERMANY	RUSSIA	I.S.O.	FRENCH
NEW I.S.	OLD I.S.	(A.A.)	(B.S.)		(DIN)			ND
19501	1E	1050(E.C.)	1E	C 1S	E-Al 99.5	-	-	-
19500	1B	1050	1B	1S	A-99.5	-	Al-99.5	1050A
19600	-	1060	-	-	-	-	-	-
19700	-	1070	-	-	Al-99.7	-	Al-99.7	-
19800	1A	1080	1A	-	-	-	Al-99.8	-
19000	1C	1100	1C	2S	Al-99.0	AD	Al-99.0	1200
-	-	2011	FC1	28S	Al-Cu-Bi-Pb	-	Al-Cu-6 Bi Pb	2011
24345	H15	2014	H15	B26S	Al-Cu-Si	AK	-	-
24534	H14	2017	H14	17S/16S	-	D1	Al-Cu-4Mg Si	-
-	-	2024	-	24S	Al-Cu-Mg,2	-	Al-Cu-4Mg 1	2024
31000	N3	3003	N3	3S	Al-Mn	A-Mn	Al-Mn 1	3003
43000	N21	4043	N21	33S	Al-Si-5	AK	Al-Si5	4043
46000	N2	4047	N2	35S	-	-	-	-
51000	-	5005	-	B57S	-	-	Al-Mg-1	-
52000	N4	5052	N4	M57S	Al-Mg,2	A-Mg	Al-Mg-2.5	5051
53000	N5	5086	N5	54S	-	A,Mg-3	Al-Mg-4	-
54300	N8	5083	N8	D54S	Al-Mg-4.5 Mn	-	Al-Mg-4.5 Mn	5083
55000	N6	5056	N6	A56S	Al-Mg,5	-	Al-Mg,5	5356
65032	H20	6061	H20	65S	Al-Mg-Si Cu	-	Al-Mg-1Si Cu	-
63400	H9	6063	H9	50S	Al-Mg-Si 0.5	-	Al-Mg-Si	-
64430	H30	6351	H30	B51S	Al-Mg-Si 1	AV	Al-Si-1 Mg	6081
64423	H11	6066	H11	C62S	-	-	-	-
62400	-	6005	-	C51S	-	-	-	-
63401	91E	6101	91E	D50S	E,Al,Mg,Si 0.5	-	-	-
64401	-	6201	-	-	-	-	-	-
74530	-	7039	-	D74S	Al-Zn-Mg, 1	-	-	3004
-	-	7075	DTD	75S	Al-Zn-Mg Cu 1.5	-	Al-Zn 6 Mg Cu	7075
			5124					




**Technical Specification**
**Wrought alloys : Chemical composition limits (per cent)**

Alloy (ISS)	Old	New	Equivalent alloy (AA) U.S.A.	Copper		Magnesium		Silicon		Iron	Manganese		* Others (Total) Max	Remarks	
				Min.	Max.	Min.	Max.	Min.	Max.	Max.	Min.	Max.			
1 C	19000	1100	-	0.10	-	-	-	0.5	0.6	-	0.1	0.1	0.1	Aluminium 99.0% Min	
		1200	-	0.05	-	-	-	Si+Fe 1.0		-	0.05	0.1	0.1	Aluminium 99.0% Min	
1 B	19500	1050	-	0.05	-	-	-	0.25	0.4	-	0.05	0.1	0.1	Aluminium 99.5% Min	
1 E	19501	-	-	0.04	-	-	-	0.15	0.35	-	0.03	0.1	0.1	Aluminium 99.5% Min	
		1350	-	0.05	-	-	-	0.10	0.40	-	0.01	0.1	0.1	Aluminium 99.5% Min	
		19600	1060	-	0.05	-	-	0.25	0.35	-	0.03	0.1	0.1	Aluminium 99.6% Min	
		19700	1070	-	0.03	-	-	0.2	0.25	-	0.03	0.1	0.1	Aluminium 99.7% 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	-	-	
N3	31000	3003	-	0.1	-	0.1	-	0.6	0.7	1.0	1.5	0.4	-	-	
N21	43000	4043	-	0.1	-	0.2	4.5	6.0	0.6	-	0.5	0.2	-	-	
N2	46000	4047	-	0.1	-	0.2	10.0	13.0	0.6	-	0.5	0.2	-	-	
N4	52000	5052	-	0.1	1.7	2.6	-	0.6	0.5	-	0.5	0.4	-	Cr + Mn = 0.5 %	
N5	53000	5086	-	0.1	2.8	4.0	-	0.6	0.5	-	0.5	0.4	-	Cr + Mn = 0.5 %	
N6	55000	5056	-	0.1	4.5	5.6	-	0.6	0.7	-	0.5	0.4	-	Chromium upto 0.25 %	
N8	54300	5083	-	0.1	4.0	4.9	-	0.4	0.7	0.5	1.0	0.4	-	Chromium upto 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	-	-	-	
91E	63401	6101	-	0.05	0.4	0.9	0.3	0.7	0.5	-	0.03	0.1	-	-	
		64401	6201	-	0.1	0.6	0.9	0.5	0.9	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 upto 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


**Technical Specification**
**Wrought alloys : Mechanical properties**

<b>Non - Heat Treatable Alloys</b>					
Alloy AA Old (ISS) New (ISS)	Temper	Ultimate Tensile Strength Kg/mm <sup>2</sup>		0.2% Proof Stress Kg/mm <sup>2</sup>	Elongation On 50 mm GL
		Min.	Max.		
1100[1C][19000]	O	-	11.0	-	25
1050[1B][19500]	O	-	10.0	-	25
1060[19600]	O	-	9.5	-	25
1070[19700]	O	-	9.5	-	25
4043[N21][43000]	O	-	13.0	-	18
4047[N2] [46000]	O	-	15.0	-	12
5052[N4] [52000]	O	-	24.5	-	18
5086[N5] [53000]	O	-	26.5	-	16
5056[N6] [55000]	O	-	34.5	-	15
5083[N8] [54300]	O	-	35.5	-	13
<b>Heat Treatable Alloys</b>					
2014 [H15] [24345]	T4[W] T6 [WP]	39 49	- -	24.0 43.0	10 6
2017 [H14] [24534]	T4[W]	39	-	24.0	10
6063 [H9] [63400]	T4[W] T6 [WP]	14 19	- -	8.0 15.5	14 7
6061 [H20] [65032]	M or O T4[W] T6 [WP]	- 19 28.5	15.0 - -	- 11.5 24.0	16 14 7
6351[H30] [64430]	M or O T4[W] T6 [WP]	- 19 31.5	15 - -	- 12.0 27.5	16 14 7
6066	O T4[W] T6 [WP]	- 28 35	20.5 - -	- 17.5 31.5	16 14 7
6101[91E] [63401]	T4[W] T6 [WP]	14 20.5	- -	8.0 17.0	12 10
6201 [64401]	T4[W] T8 [WDP]	16 32	- -	7.0 -	14 3
7039 [74530]	T4[W] T6 [WP]	28 31.5	- -	23.5 26.5	9 7
7075	T6 [WP]	54	-	46.5	6

Properties indicated herein are typical properties and are given for information only. However properties of all the profiles in specific alloy shall be as per I.S. Specification.


**Technical Specification**
**Solid sections : Thickness tolerance**

Specified** Thickness mm	Width of Section (mm)														
	12	16	20	25	32	40	50	63	80	100	125	160	200	250	320
1.2	0.20	0.20	0.20	0.20	0.20	*	*	*	*	*	*	*	*	*	*
1.6	0.18	0.20	0.20	0.20	0.20	*	*	*	*	*	*	*	*	*	*
2.0	0.18	0.20	0.20	0.20	0.20	0.23	0.25	0.28	0.30	0.33	0.36	0.38	0.41	0.46	*
2.5	0.18	0.20	0.20	0.20	0.20	0.23	0.25	0.28	0.30	0.33	0.36	0.38	0.41	0.46	*
3.2	0.18	0.20	0.20	0.20	0.23	0.25	0.28	0.30	0.33	0.36	0.38	0.41	0.43	0.48	*
4.0	0.20	0.23	0.23	0.23	0.25	0.28	0.30	0.33	0.36	0.38	0.43	0.43	0.46	0.51	*
5.0	0.20	0.23	0.23	0.23	0.25	0.28	0.30	0.33	0.36	0.38	0.41	0.43	0.46	0.51	*
6.0	0.20	0.23	0.23	0.23	0.25	0.28	0.30	0.33	0.36	0.41	0.46	0.51	0.56	0.66	*
8.0	0.23	0.25	0.25	0.25	0.28	0.30	0.33	0.36	0.38	0.43	0.48	0.53	0.58	0.71	*
10.0	0.23	0.25	0.25	0.25	0.28	0.30	0.33	0.36	0.38	0.43	0.48	0.53	0.58	0.71	*
12.0	0.25	0.28	0.28	0.28	0.30	0.33	0.36	0.38	0.41	0.46	0.48	0.53	0.58	0.74	0.97
16.0	0.28	0.30	0.30	0.30	0.33	0.36	0.38	0.41	0.43	0.48	0.51	0.56	0.61	0.76	1.02
20.0	-	0.30	0.30	0.30	0.36	0.38	0.41	0.43	0.46	0.51	0.53	0.61	0.69	0.79	1.04
25.0	-	0.30	0.30	0.30	0.36	0.38	0.41	0.43	0.46	0.51	0.53	0.61	0.69	0.79	1.04
32.0	-	-	-	-	0.38	0.41	0.43	0.46	0.48	0.53	0.56	0.66	0.74	-	-
40.0	-	-	-	-	-	0.46	0.48	0.51	0.53	0.56	0.61	0.71	0.79	-	-
50.0	-	-	-	-	-	-	0.53	0.56	0.58	0.61	0.66	0.76	0.84	-	-
63.0	-	-	-	-	-	-	-	0.61	0.64	0.66	0.71	0.81	0.89	-	-
80.0	-	-	-	-	-	-	-	-	0.69	0.71	0.74	0.86	0.94	-	-
100.0	-	-	-	-	-	-	-	-	-	0.76	0.79	0.91	0.99	-	-
125.0	-	-	-	-	-	-	-	-	-	-	0.89	0.97	1.04	-	-

\* To be regarded as special sections.

\*\* For intermediate size, take tolerance for the next higher value.

**Round Tubes : Wall Thickness Tolerance**

Specified Wall Thickness (mm)	Tolerance (mm)	
	Class 1 ±	Class 2 ±
Upto 1.2	0.30	-
1.60	0.30	-
1.80	0.30	-
2.00	0.30	-
2.24	0.30	-
2.50	0.33	-
2.80	0.36	-
3.15	0.40	0.90
3.55	0.43	0.94
4.00	0.48	0.97
4.50	0.51	1.02
5.00	0.56	1.07
5.50	0.61	1.12
6.30	0.67	1.18
7.10	0.76	1.27
8.00	0.97	1.47
9.00	1.10	1.60
10.00	1.22	1.73
11.20	1.28	1.79
12.50	1.35	1.85

**Notes :**

1. Tubes with wall thickness intermediate between standard sizes will have the tolerance of the next higher wall thickness.
2. Tolerance on standard wall thickness above 12.50 mm may be as agreed to between the purchaser and the supplier.
3. For Al-Zn-Mg, Al-Mg and Al-Cu alloys, class 2 tolerances shall apply.
4. For Al, Al-Mn and Al-Mg-Si alloys, class 1 tolerances

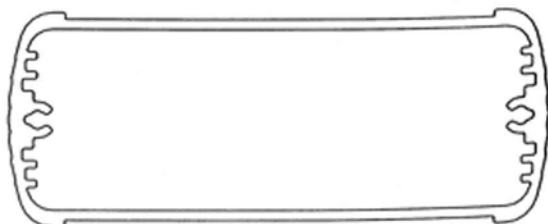
## Technical Specification

### Hollow Sections: Wall Thickness Tolerance

Wall Thickness mm		Width or overall dimensions (mm)														
		Over 10.0	20.0	30.0	40.0	50.0	60.0	80.0	100.0	120.0	140.0	160.0	180.0	200.0	225.0	250.0
Upto		20.0	33.0	40.0	50.0	60.0	80.0	100.0	120.0	140.0	160.0	180.0	200.0	225.0	250.0	
<b>Class B</b>																
<b>Over</b>	<b>Upto</b>															
1.0	1.5	0.28	0.28	0.28	0.30	-	-	-	-	-	-	-	-	-	-	-
1.5	2.0	0.30	0.33	0.33	0.36	-	-	-	-	-	-	-	-	-	-	-
2.0	2.5	0.33	0.33	0.36	0.38	0.43	0.46	-	-	-	-	-	-	-	-	-
2.5	3.0	0.41	0.43	0.46	0.48	0.51	0.53	0.56	-	-	-	-	-	-	-	-
3.0	4.0	0.53	0.56	0.58	0.61	0.64	0.66	0.69	0.71	0.74	-	-	-	-	-	-
4.0	5.0	-	0.71	0.74	0.76	0.79	0.81	0.84	0.86	0.89	0.91	0.94	1.02	-	-	-
5.0	6.0	-	-	0.97	0.99	1.02	1.04	1.07	1.09	1.12	1.14	1.17	1.19	1.22	1.24	-
6.0	8.0	-	-	-	1.22	1.24	1.27	1.30	1.32	1.35	1.37	1.40	1.42	1.45	1.47	-
8.0	10.0	-	-	-	-	1.47	1.50	1.52	1.55	1.57	1.60	1.63	1.65	1.68	1.70	-
10.0	12.0	-	-	-	-	1.73	1.75	1.78	1.8	1.83	1.85	1.88	1.90	1.93	1.96	-
12.0	16.0	-	-	-	-	-	1.98	2.00	2.03	2.06	2.08	2.11	2.13	2.16	2.18	-
16.0	20.0	-	-	-	-	-	-	2.24	2.26	2.29	2.31	2.34	2.36	2.39	2.41	-
20.0	25.0	-	-	-	-	-	-	2.49	2.51	2.54	2.57	2.59	2.62	2.64	2.67	-
<b>Class A</b>																
1.5	2.0	0.28	0.30	0.30	0.33	-	-	-	-	-	-	-	-	-	-	-
2.0	2.5	0.30	0.30	0.33	0.36	0.41	0.43	-	-	-	-	-	-	-	-	-
2.5	3.0	0.30	0.30	0.36	0.38	0.43	0.46	0.51	-	-	-	-	-	-	-	-
3.0	4.0	0.33	0.36	0.38	0.41	0.46	0.51	0.56	0.61	0.69	-	-	-	-	-	-
4.0	5.0	-	0.41	0.43	0.46	0.51	0.56	0.61	0.69	0.76	0.84	0.91	0.99	-	-	-
5.0	6.0	-	-	0.46	0.51	0.56	0.61	0.69	0.76	0.84	0.91	0.99	1.07	-	-	-
6.0	8.0	-	-	-	0.56	0.61	0.69	0.76	0.84	0.91	0.99	1.07	1.14	-	-	-
8.0	10.0	-	-	-	-	0.69	0.76	0.84	0.91	0.99	1.07	1.14	1.22	-	-	-
10.0	12.0	-	-	-	-	0.76	0.84	0.91	0.99	1.07	1.14	1.22	1.30	-	-	-
12.0	16.0	-	-	-	-	-	0.91	0.99	1.07	1.14	1.22	1.30	1.37	-	-	-
16.0	20.0	-	-	-	-	-	-	1.07	1.14	1.22	1.30	1.37	1.45	-	-	-
20.0	25.0	-	-	-	-	-	-	1.14	1.22	1.30	1.37	1.45	1.52	-	-	-

#### Notes:

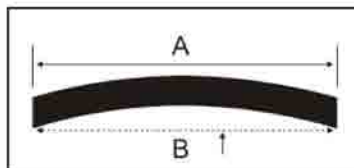
1. These tolerances are applicable to hollow sections other than round tubes.
2. For non-heat-treatable alloys, these tolerances are applicable when wall thickness of the section is at least 1.5 mm or 1/32 of overall width, whichever is greater. For heat-treated alloys, these tolerances are applicable when wall thickness is at least 1.5 mm or 1/24 of overall width, whichever is greater.
3. Unless otherwise specified, class B tolerances will be applicable.
4. For high-magnesium non-heat-treatable alloys (5052, 5056, 5083, 5086), an extra tolerance of 50% shall be allowed.





## Technical Specification

### Solid & Hollow Sections: Flatness Tolerance



Width of section (mm) A		Tolerance B
Over	Upto & including	±mm
-	25	0.18
25	38	0.25
38	50	0.30
50	-	0.30 plus 0.13 mm for every 25 mm of width (see ex.below)

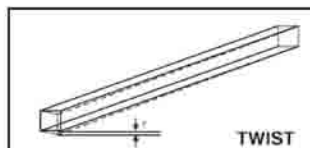
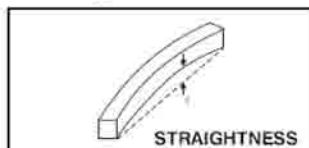
Example : The tolerances for a solid section of 150 mm width shall be as follows:

$$\pm(0.30 + 0.13 \times \frac{150}{25}) = (0.30 \pm 0.13 \times 6) = \pm 1.08 \text{ mm}$$

#### Notes :

- Flatness tolerance is measure of concavity or convexity.
- While measuring convexity, the straight edge shall be balanced at the middle of the section.

### Solid & Hollow Section: Twist & Straightness Tolerance



Diameter of circumscribing circle mm	Allowable deviation from straightness mm per metre or length
Upto & including 25.0	2.1
Over 25.0	1.7

#### Notes :

- Tolerance values are same for straightness and twist.
- Twist is normally measured by placing the extruded section on a flat surface and measuring the maximum distance at any point along its length between the bottom surface of the section and the flat surface. From this measurement, the deviation from true straightness of the section is subtracted. The remainder is the twist. To convert the standard twist tolerance to an equivalent inner value, the tangent of the standard tolerance is multiplied by the width of the surface of the section that is one of the flat surface.

### Solid & Hollow Section: Cut Length Tolerance

Width or diameter mm	Length tolerance mm ±
Upto 50.0	6
50.1 to 100.0	8
100.1 to 150.0	10
150.1 and above	12

## **Industrial Profiles**

Round Tube

### **Solid Section**

Rectangular Bar

Round Bar

Square Bar

Hex Bar

Flat bar

### **Angles**

Equal Angle

Unequal Angle

### **Ladder Section**

Fluted Tube

C Section

Stapazing

Hinge

### **Double Roller Section**

### **Water Channel**

### **L Section**

## **Architectural Profiles**

### **Door & Partition Series**

Single Partition

Double Partition

Door Top

Door Middle Single

Door Middle Double

Door Bottom

Door Vertical

Glazing Clip (Taper Clip)

Twinstyle Door Series

### **Casement (Openable) Window Series**

34 Series

40 Series

Cleat Angle

### **Sliding Window Series**

18 MM Series

20 MM Series

### **Sliding Door Series**

### **Curtain Wall**

### **Hollow Section**

Rectangular Tube

Square Tube

### **Tee**

Bulb Tee

Plain Tee

### **G Section**

## **Transport Profiles**

### **Bus Body**

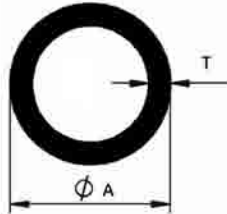
H Section

F Section




**INDUSTRIAL PROFILES**

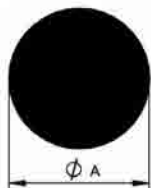
Round Tube



Section Number	Dimension In MM		Weight Range		
	A	T	12'		
1611	25.00	4.5	2.800	-	3.000
1621	30.00	6.5	4.700	-	4.900
1625	32.00	6.0	4.800	-	5.000
1628	33.00	6.0	5.000	-	5.200
1631	38.00	7.5	7.100	-	7.400
1641	48.00	8.5	10.380	-	10.680
1651	54.00	10.00	13.800	-	14.200


**INDUSTRIAL PROFILES**
**SOLID SECTION**

Round Rod



Section Number	A (MM)	Weight Range 12'	
7203	12.00	1.100	1.300
7205	15.80	1.900	2.100
7207	19.00	2.700	2.900
7211	25.40	4.900	5.100
7213	30.00	6.900	7.200
7219	32.00	7.900	8.200
7221	36.00	9.900	10.200

Square Bar



Section Number	A (MM)	Weight Range 12'	
7001	12.70	1.600	1.800
7003	15.80	2.500	2.700
7004	19.00	3.600	3.800
7005	25.40	6.300	6.500
7007	32.00	10.100	10.500
7009	38.00	14.300	15.000

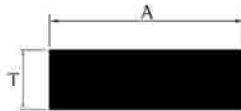

**INDUSTRIAL PROFILES**
**SOLID SECTION**

Hex Bar



Section Number	A (MM)	Weight Range		
		12'		
7601	13.00	1.230	-	1.300
7603	16.00	1.900	-	2.000
7605	19.00	2.750	-	2.850

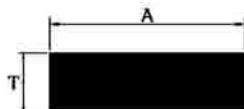
Flat Bar



Section Number	Dimension in MM		Weight Range in 12'
	A	T	
7400	17.00	4.00	0.680 - 0.780
7401	19.00	1.00	0.190 - 0.290
7401A	19.00	1.50	0.280 - 0.300
7401B	19.00	2.00	0.370 - 0.400
7402	19.00	3.00	0.570 - 0.670
7403	19.00	6.00	1.140 - 1.240
7404	25.00	1.00	0.250 - 0.350
7404A	25.00	1.50	0.370 - 0.400
7404B	25.00	2.00	0.490 - 0.520
7404C	25.00	2.50	0.600 - 0.700
7405	25.00	3.00	0.750 - 0.850
7406	25.00	5.00	1.250 - 1.350
7407	25.00	6.00	1.500 - 1.700
7408	25.00	9.50	2.375 - 2.575
7409	25.00	12.00	3.000 - 3.200
7411	38.00	3.00	1.100 - 1.300
7413	38.00	6.00	2.280 - 2.480

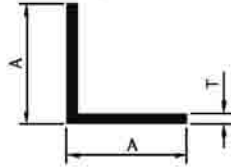

**INDUSTRIAL PROFILES**
**SOLID SECTION**

Flat Bar

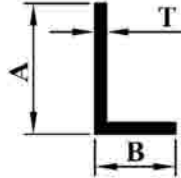


Section Number	Dimension in MM		Weight Range in 12'
	A	T	
7414	38.00	9.50	3.610 - 3.810
7426	40.00	3.00	1.200 - 1.400
7427	40.00	6.00	2.400 - 2.600
7428	40.00	10.00	4.000 - 4.200
7430	50.00	4.50	2.250 - 2.450
7431	50.00	6.00	3.000 - 3.200
7433	50.00	10.00	5.000 - 5.200
7435	50.00	12.00	6.000 - 6.200
7436	50.00	12.50	6.250 - 6.450
7441	63.00	9.50	5.985 - 6.185
7442	63.00	10.00	6.300 - 6.500
7443	63.00	12.00	7.560 - 7.760
7445	75.00	6.00	4.500 - 4.700
7446	75.00	10.00	7.500 - 7.700
7449	75.00	12.00	9.000 - 9.300
7452	80.00	10.00	8.000 - 9.300
7455	100.00	6.00	6.000 - 6.200
7457	100.00	10.00	10.000 - 10.300
7459	100.00	12.00	12.000 - 12.400
7462	125.00	10.00	12.500 - 13.000
7465	150.00	6.00	9.000 - 9.300
7466	150.00	10.00	15.000 - 15.400
7467	150.00	12.00	18.000 - 19.000

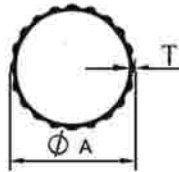



**INDUSTRIAL PROFILES**
**Angles**
**Equal Angle**


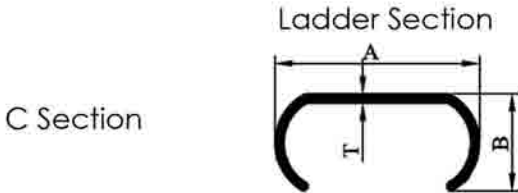
Section Number	Dimension In MM		Weight Range 12'
	A	T	
3202	25.00	1.50	0.700 - 0.800
3203	25.00	2.80	1.300 - 1.500
3204	38.00	3.75	2.700 - 2.900
3205	50.00	4.50	4.200 - 4.400
3211	50.00	6.00	5.500 - 5.700

**Unequal Angle**


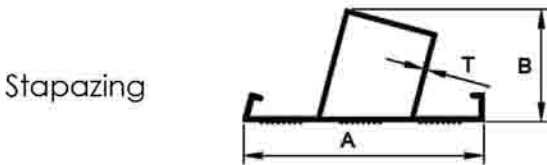
Section Number	Dimension In MM			Weight Range 12'
	A	B	T	
3106	38.10	25.40	2.15	1.400 - 1.600
3111	50.80	25.40	2.85	2.000 - 2.200

**Ladder Section**
**Fluted Tube**


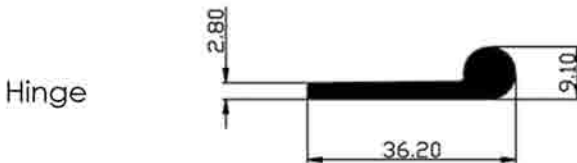
Section Number	Dimension In MM		Weight Range 12'
	A	T	
1751	25.40	1.50	1.100 - 1.300
1752	25.40	1.55	1.300 - 1.500
1753	25.40	2.00	1.500 - 1.700


**INDUSTRIAL PROFILES**


Section Number	Dimension In MM			Weight Range 12'
	A	B	T	
1761	66.68	31.75	1.40	1.600 - 1.800
1762	66.68	31.75	1.60	1.900 - 2.100
1764	66.68	31.75	2.30	2.600 - 2.800



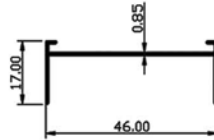
Section Number	Dimension In MM			Weight Range 12'
	A	B	T	
1771	65.00	30.00	0.9	1.400 - 1.600



Section Number	T (MM)	Weight Range 12'
	1781	

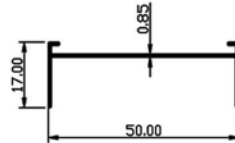

**INDUSTRIAL PROFILES**

Water Channel



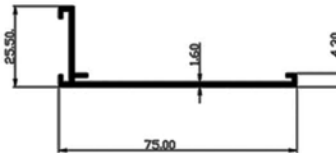
Section Number	T (MM)	Weight Range		
		12'		
7506	0.85	0.750	-	0.800

Water Channel



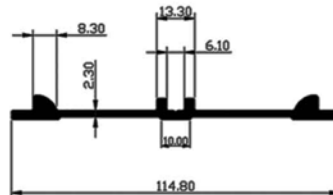
Section Number	T (MM)	Weight Range		
		12'		
7511	0.85	0.750	-	0.850

L Section



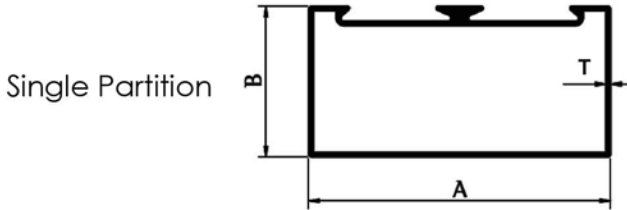
Section Number	T (MM)	Weight Range		
		12'		
7516	1.60	1.700	-	1.800

Double Roller Channel



Section Number	T (MM)	Weight Range		
		12'		
7501	2.30	3.900	-	4.100

 Door & Partition Series



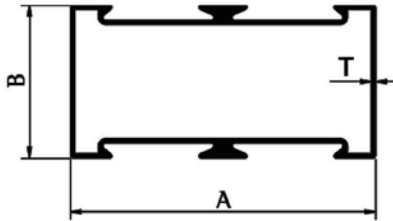
Section Number	Dimension In MM			Weight Range 12'
	A	B	T	
1002	50.80	25.40	0.90	1.500 - 1.700
1003	50.80	25.40	1.30	2.000 - 2.300
1004	50.80	25.40	1.50	2.400 - 2.700

Section Number	Dimension In MM			Weight Range 12'
	A	B	T	
1021	63.50	38.10	0.80	1.700 - 1.900
1022	63.50	38.10	0.90	1.900 - 2.100
1023	63.50	38.10	1.00	2.100 - 2.400
1024	63.50	38.10	1.15	2.400 - 2.600
1025	63.50	38.10	1.30	2.600 - 2.900
1026	63.50	38.10	1.45	3.000 - 3.300
1027	63.50	38.10	1.75	3.700 - 3.900
1029	63.50	38.10	2.50	5.100 - 5.400
1030	63.50	38.10	3.00	5.600 - 6.000

Section Number	Dimension In MM			Weight Range 12'
	A	B	T	
1051	101.6	44.45	1.10	3.700 - 4.000
1052	101.6	44.45	1.35	4.100 - 4.300
1053	101.6	44.45	1.65	4.900 - 5.200
1054	101.6	44.45	1.75	5.300 - 5.600
1055	101.6	44.45	1.95	5.900 - 6.200
1056	101.6	44.45	2.55	7.500 - 7.800
1058	101.6	44.45	3.00	8.900 - 9.200


**Door & Partition Series**

Double Partition



Section Number	Dimension In MM			Weight Range 12'
	A	B	T	
1072	50.80	25.40	0.90	1.500 - 1.700
1073	50.80	25.40	1.30	2.000 - 2.300
1074	50.80	25.40	1.50	2.400 - 2.700

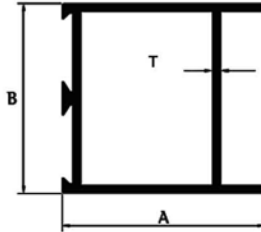
Section Number	Dimension In MM			Weight Range 12'
	A	B	T	
1091	63.50	38.10	0.80	1.700 - 1.900
1092	63.50	38.10	0.90	1.900 - 2.100
1093	63.50	38.10	1.00	2.100 - 2.400
1094	63.50	38.10	1.15	2.400 - 2.600
1095	63.50	38.10	1.30	2.600 - 2.900
1096	63.50	38.10	1.45	3.000 - 3.300
1097	63.50	38.10	1.75	3.700 - 3.900
1099	63.50	38.10	2.50	5.100 - 5.400
1100	63.50	38.10	3.00	5.600 - 6.000

Section Number	Dimension In MM			Weight Range 12'
	A	B	T	
1121	101.6	44.45	1.10	3.700 - 4.000
1122	101.6	44.45	1.35	4.100 - 4.300
1123	101.6	44.45	1.65	4.900 - 5.200
1124	101.6	44.45	1.75	5.300 - 5.600
1125	101.6	44.45	1.95	5.900 - 6.200
1126	101.6	44.45	2.55	7.500 - 7.800
1128	101.6	44.45	3.00	8.900 - 9.200



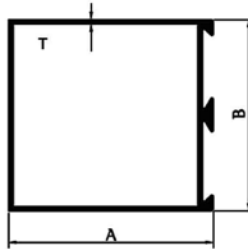
## Door & Partition Series

Door Top



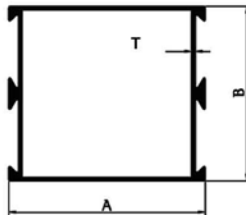
Section Number	Dimension In MM			Weight Range 12'
	A	B	T	
1181	47.62	44.45	1.35	2.500 - 2.700
1182	47.62	44.45	2.00	3.200 - 3.400

Door Middle Single



Section Number	Dimension In MM			Weight Range 12'
	A	B	T	
1141	47.62	44.45	1.30	2.300 - 2.500
1142	47.62	44.45	1.45	2.600 - 2.800

Door Middle Double

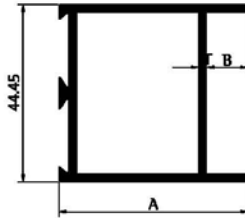


Section Number	Dimension In MM			Weight Range 12'
	A	B	T	
1161	47.62	44.45	1.30	2.300 - 2.500
1162	47.62	44.45	1.45	2.600 - 2.800
1171	101.62	44.45	1.1	4.800 - 5.200



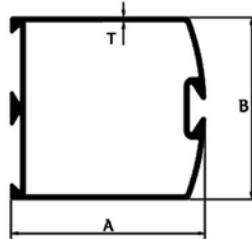

**Door & Partition Series**

Door Bottom

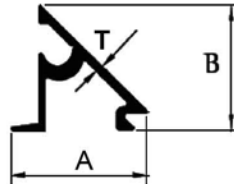


Section Number	Dimension In MM			Weight Range 12'
	A	B	T	
1221	95.00	25.00	1.45	4.100 - 4.400
1222	95.00	25.00	1.80	5.100 - 5.400

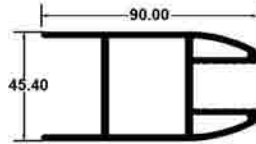
Door Vertical



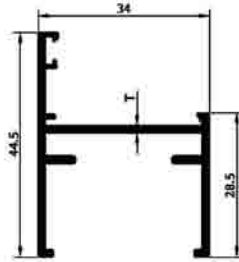
Section Number	Dimension In MM			Weight Range 12'
	A	B	T	
1202	47.62	44.45	1.30	2.450 - 2.650
1203	47.62	44.45	1.50	3.300 - 3.600
1211	83.00	44.45	1.45	4.100 - 4.400

 Glazing Clip  
 (Taper Clip)


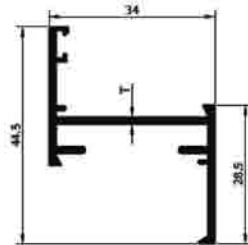
Section Number	Dimension In MM			Weight Range 12'
	T	A	B	
1251	0.50	18.50	17.20	0.220 - 0.250
1252	0.58	18.50	17.20	0.251 - 0.270
1253	0.65	18.50	17.20	0.271 - 0.300
1254	0.70	18.50	17.20	0.301 - 0.320
1255	0.75	18.50	17.20	0.321 - 0.350


**Door & Partition Series**
**Twinstyle Door Series**  
 (Hollow Glass Section)


Section Number	T (MM)	Weight Range
1281	2.40	12' 7.100 - 7.600


**Casement (Openable) Window Series**
**34 Series**
**Outer Frame**


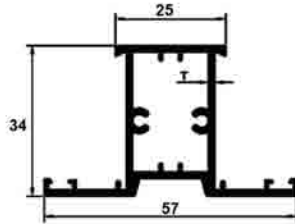
Section Number	T (MM)	Weight Range
1301	1.50	12' 1.650 - 1.900

**Shutter Frame**


Section Number	T (MM)	Weight Range
1305	1.50	12' 1.350 - 1.600

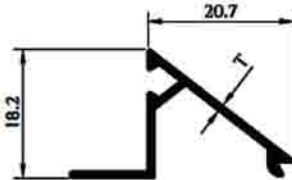
## Casement (Openable) Window Series

Mullion



Section Number	T (MM)	Weight Range
		12'
1310	1.50	2.400 - 2.600

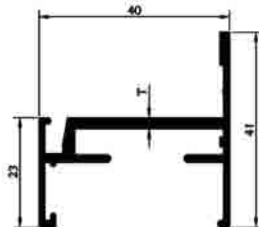
Clip



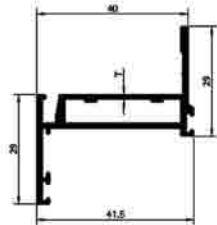
Section Number	T (MM)	Weight Range
		12'
1315	0.85	0.480 - 0.550
1316	1.00	0.550 - 0.650

## 40 Series

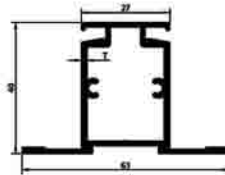
Outer Frame



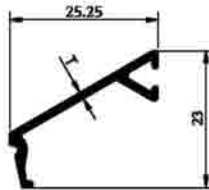
Section Number	T (MM)	Weight Range
		12'
1321	2.30	2.100 - 2.300


**Casement (Openable) Window Series**
**Shutter Frame**


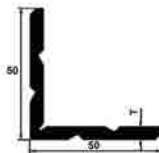
Section Number	T (MM)	Weight Range
		12'
1325	1.25	2.100 - 2.300

**Mullion**


Section Number	T (MM)	Weight Range
		12'
1330	1.80	3.100 - 3.400

**Clip**


Section Number	T (MM)	Weight Range
		12'
1335	1.20	0.550 - 0.650

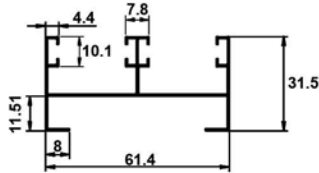
**Cleat Angle**


Section Number	T (MM)	Weight Range
		12'
1318	3.80	3.450 - 3.650

 Sliding Window Series

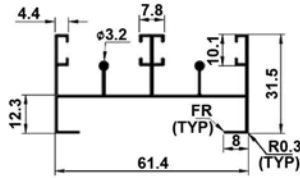
## 18 MM Series

Two Track Top



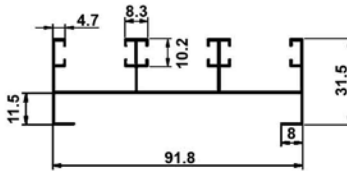
Section Number	T (MM)	Weight Range
1801	0.8	1.700 - 1.900

Two Track Bottom



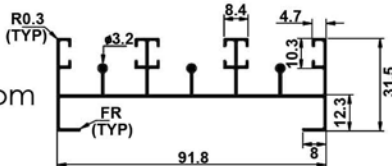
Section Number	T (MM)	Weight Range
1821	0.8	2.100 - 2.300

Three Track Top

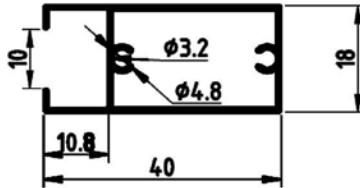


Section Number	T (MM)	Weight Range
1811	0.8	2.250 - 2.450

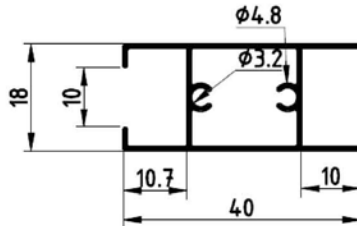
Three Track Bottom



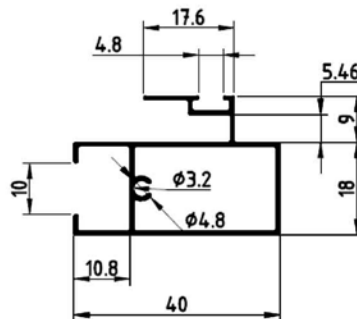
Section Number	T (MM)	Weight Range
1831	0.8	2.300 - 2.500


**Sliding Window Series**
**18 MM Series**
**A Section**


Section Number	T (MM)	Weight Range
1841	0.9	1.100 - 1.300

**H Section**


Section Number	T (MM)	Weight Range
1851	0.9	1.100 - 1.300

**Interlock**


Section Number	T (MM)	Weight Range
1861	0.9	1.200 - 1.400

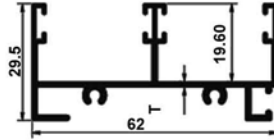




## Sliding Window Series

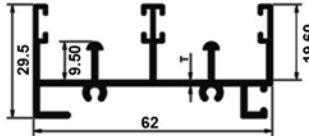
### 20MM Series

Two Track Top



Section Number	T (MM)	Weight Range 12'	
2001	0.80	1.700	- 1.900
2002	1.00	1.900	- 2.100
2003	1.15	2.200	- 2.400
2004	1.30	2.400	- 2.700
2005	1.50	2.700	- 2.950
2006	1.70	2.950	- 3.200

Two Track Bottom



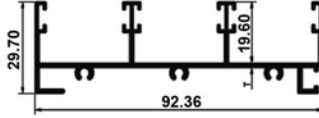
Section Number	T (MM)	Weight Range 12'	
2021	0.85	2.000	- 2.200
2022	1.00	2.200	- 2.400
2023	1.15	2.500	- 2.700
2024	1.30	2.700	- 3.000
2025	1.50	3.000	- 3.300
2026	1.65	3.300	- 3.700



## Sliding Window Series

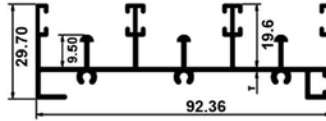
### 20MM Series

#### Three Track Top



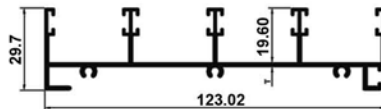
Section Number	T (MM)	Weight Range 12'	
2011	0.85	2.400	- 2.600
2012	1.00	2.600	- 2.900
2013	1.15	3.000	- 3.300
2014	1.35	3.500	- 3.800
2015	1.50	3.700	- 4.100
2016	1.65	4.100	- 4.400

#### Three Track Bottom



Section Number	T (MM)	Weight Range 12'	
2031	0.85	2.800	- 3.100
2032	1.00	3.100	- 3.400
2033	1.15	3.400	- 3.800
2034	1.30	3.800	- 4.200
2035	1.50	4.200	- 4.500
2036	1.65	4.500	- 4.800

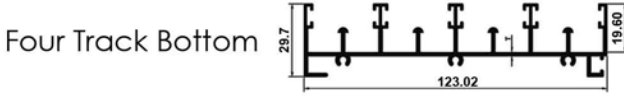
#### Four Track Top



Section Number	T (MM)	Weight Range 12'	
2072	1.20	4.200	- 4.400

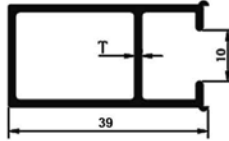
 Sliding Window Series

20MM Series



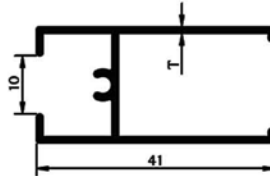
Section Number	T (MM)	Weight Range 12'	
2082	1.20	4.700	4.900

A Section



Section Number	T (MM)	Weight Range 12'	
2041	0.90	1.050	1.200
2042	1.10	1.200	1.400
2043	1.30	1.400	1.600
2044	1.40	1.600	1.800
2045	1.50	1.800	2.000
2046	1.65	2.000	2.200

H Section



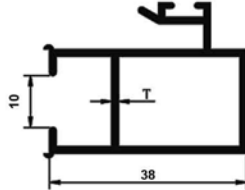
Section Number	T (MM)	Weight Range 12'	
2051	0.90	1.100	1.300
2052	1.10	1.250	1.500
2053	1.30	1.500	1.700
2055	1.50	1.700	1.900
2056	1.65	1.900	2.100



## Sliding Window Series

### 20MM Series

Interlock

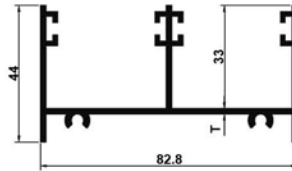


Section Number	T (MM)	Weight Range 12'
2061	0.85	1.200 - 1.350
2062	1.00	1.400 - 1.600
2063	1.15	1.600 - 1.750
2064	1.30	1.900 - 2.100
2065	1.50	2.100 - 2.300
2066	1.60	2.300 - 2.700



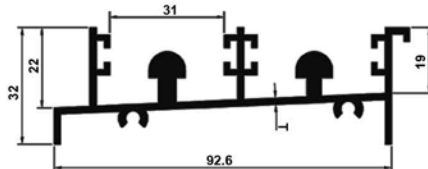
## Sliding Door Series

Two Track Top



Section Number	T (MM)	Weight Range 12'
2102	1.65	4.400 - 4.700

Two Track Bottom

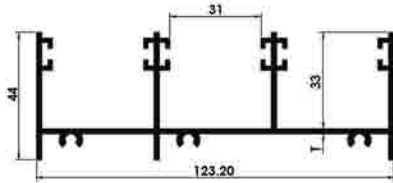


Section Number	T (MM)	Weight Range 12'
2122	1.80	5.500 - 5.900



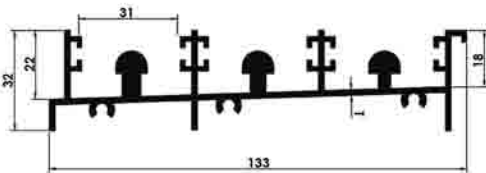
## Sliding Door Series

Three Track Top



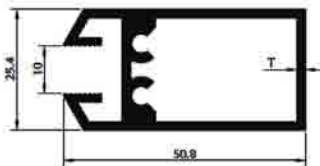
Section Number	T (MM)	Weight Range
2112	1.80	6.200 - 6.600

Three Track Bottom



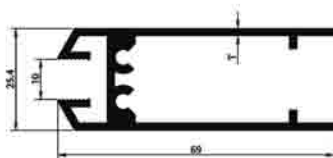
Section Number	T (MM)	Weight Range
2132	1.80	8.000 - 8.500

A Section



Section Number	T (MM)	Weight Range
2142	1.80	3.500 - 3.800

H Section

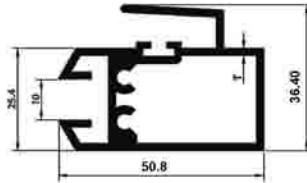


Section Number	T (MM)	Weight Range
2152	1.80	3.600 - 3.900



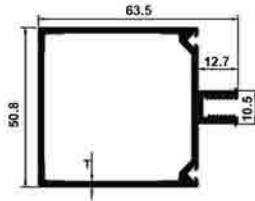
## Sliding Door Series

Interlock



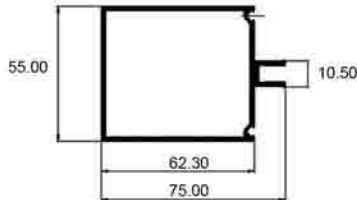
Section Number	T (MM)	Weight Range
2162	1.80	4.100 - 4.400

Curtain Wall



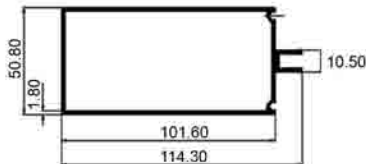
Section Number	T (MM)	Weight Range
1423	2.00	4.500 - 4.700

Curtain Wall



Section Number	T (MM)	Weight Range
1426	1.50	4.100 - 4.300

Curtain Wall

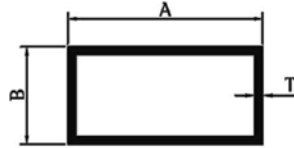


Section Number	T (MM)	Weight Range
1431	1.8	6.100 - 6.500



## Hollow Section

Rectangular Tube

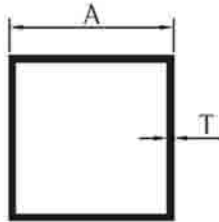


Section Number	Dimension In MM			Weight Range 12'	
	A	B	T		
1501	36.10	24.40	0.65	0.750	- 0.850
1502	36.10	24.40	0.68	0.850	- 1.000
1503	36.10	24.40	0.90	1.000	- 1.200
1504	36.10	24.40	1.05	1.200	- 1.400
1506	50.00	25.40	0.65	0.800	- 1.000
1507	50.00	25.40	0.75	1.000	- 1.200
1508	50.00	25.40	0.90	1.200	- 1.400
1509	50.00	25.40	1.30	1.800	- 2.100
1510	50.00	25.40	3.00	2.700	- 3.000
1511	63.50	38.10	0.75	1.350	- 1.550
1512	63.50	38.10	1.20	2.000	- 2.200
1513	63.50	38.10	1.75	2.900	- 3.100
1514	63.50	38.10	3.00	5.400	- 5.600
1521	101.60	44.45	1.20	4.000	- 4.200
1522	101.60	44.45	1.3	4.300	- 4.600



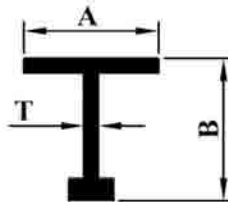
## Hollow Section

Square Tube



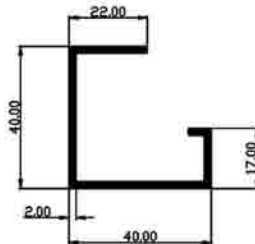
Section Number	Dimension In MM		Weight Range 12'
	A	T	
1551	19.00	1.50	1.100 - 1.300
1552	25.40	2.20	1.500 - 1.700

Bulb Tee



Section Number	Dimension In MM			Weight Range 12'
	A	B	T	
3301	25.40	25.40	1.00	0.485 - 0.525
3302	25.40	25.40	1.30	1.300 - 1.500
3311	38.10	25.40	1.10	0.650 - 0.750
3315	38.10	38.10	1.35	1.000 - 1.100

G Section

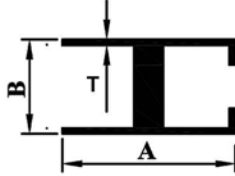


Section Number	T (MM)	Weight Range 12'
1271	2.00	2.450 - 2.650



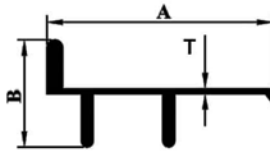

**TRANSPORT PROFILES**

Bus Body: H



Section Number	Dimension In MM			Weight Range 12'
	A	B	T	
7801	24.00	13.00	1.50	1.250 - 1.400

Bus Body: F



Section Number	Dimension In MM			Weight Range 12'
	A	B	T	
7806	36.60	18.60	1.10	1.000 - 1.200


**DIES LIST**

Section Number	Section Name	T	Weight Range 12'
SP-1002	Single Partition 50.00MM X 25.00MM *	0.90	1.500 - 1.700
SP-1003	Single Partition 50.00MM X 25.00MM	1.30	2.000 - 2.300
SP-1004	Single Partition 50.00MM X 25.00MM	1.50	2.400 - 2.700
SP-1021	Single Partition 63.5MM X 38.10MM *	0.80	1.700 - 1.900
SP-1022	Single Partition 63.5MM X 38.10MM*	0.90	1.900 - 2.100
SP-1023	Single Partition 63.5MM X 38.10MM	1.00	2.100 - 2.400
SP-1024	Single Partition 63.5MM X 38.10MM	1.15	2.400 - 2.600
SP-1025	Single Partition 63.5MM X 38.10MM	1.30	2.600 - 2.900
SP-1026	Single Partition 63.5MM X 38.10MM	1.45	3.000 - 3.300
SP-1027	Single Partition 63.5MM X 38.10MM	1.75	3.700 - 3.900
SP-1029	Single Partition 63.5MM X 38.10MM	2.50	5.100 - 5.400
SP-1030	Single Partition 63.5MM X 38.10MM	3.00	5.600 - 6.000
SP-1051	Single Partition 101.60MM X 44.45MM	1.10	3.700 - 4.000
SP-1052	Single Partition 101.60MM X 44.45MM	1.35	4.100 - 4.300
SP-1053	Single Partition 101.60MM X 44.45MM	1.65	4.900 - 5.200
SP-1054	Single Partition 101.60MM X 44.45MM	1.75	5.300 - 5.600
SP-1055	Single Partition 101.60MM X 44.45MM	1.95	5.900 - 6.200
SP-1056	Single Partition 101.60MM X 44.45MM	2.55	7.500 - 7.800
SP-1057	Single Partition 101.60MM X 44.45MM	3.00	8.900 - 9.200
DP-1072	Double Partition 50.00MM X 25.00MM*	0.90	1.500 - 1.700
DP-1073	Double Partition 50.00MM X 25.00MM	1.30	2.000 - 2.300
DP-1074	Double Partition 50.00MM X 25.00MM	1.50	2.400 - 2.700
SP-1091	Double Partition 63.5MM X 38.10MM*	0.80	1.700 - 1.900
SP-1092	Double Partition 63.5MM X 38.10MM*	0.90	1.900 - 2.100
SP-1093	Double Partition 63.5MM X 38.10MM	1.00	2.100 - 2.400
SP-1094	Double Partition 63.5MM X 38.10MM	1.15	2.400 - 2.600
SP-1095	Double Partition 63.5MM X 38.10MM	1.30	2.600 - 2.900
SP-1096	Double Partition 63.5MM X 38.10MM	1.45	3.000 - 3.300
SP-1097	Double Partition 63.5MM X 38.10MM	1.75	3.700 - 3.900
SP-1099	Double Partition 63.5MM X 38.10MM	2.50	5.100 - 5.400
SP-1100	Double Partition 63.5MM X 38.10MM	3.00	5.600 - 6.000
DP-1121	Double Partition 101.60MM X 44.45MM	1.10	3.700 - 4.000
DP-1122	Double Partition 101.60MM X 44.45MM	1.35	4.100 - 4.300
DP-1123	Double Partition 101.60MM X 44.45MM	1.65	4.900 - 5.200
DP-1124	Double Partition 101.60MM X 44.45MM	1.75	5.300 - 5.600
DP-1125	Double Partition 101.60MM X 44.45MM	1.95	5.900 - 6.200
DP-1126	Double Partition 101.60MM X 44.45MM	2.55	7.500 - 7.800
DP-1128	Double Partition 101.60MM X 44.45MM	3.00	8.900 - 9.200
DMS-1141	Door Middle Single 47.62MM X 44.45MM	1.30	2.300 - 2.500
DMS-1142	Door Middle Single 47.62MM X 44.45MM	1.45	2.600 - 2.800
DMD-1161	Door Middle Double 47.62MM X 44.45MM	1.30	2.300 - 2.500
DMD-1162	Door Middle Double 47.62MM X 44.45MM	1.45	2.600 - 2.800
DMD-1171	Door Middle Double 101.60MM X 44.45MM	1.10	4.800 - 5.200

\* Extra premium will be charged


**DIES LIST**

Section Number	Section Name	T	Weight Range 12'	
DT-1181	Door Top 47.62MM X 44.45MM	1.35	2.500	- 2.700
DT-1182	Door Top 47.62MM X 44.45MM	2.00	3.200	- 3.400
DV-1202	Door Vertical 47.62MM X 44.45MM	1.30	2.450	- 2.650
DV-1203	Door Vertical 47.62MM X 44.45MM	1.50	3.300	- 3.600
DV-1211	Door Vertical 83.00MM X 44.45MM	1.45	4.100	- 4.400
DB-1221	Door Bottom 95MM X 44MM X 25MM Leg	1.45	4.100	- 4.400
DB-1222	Door Bottom 95MM X 44MM X 25MM Leg	1.80	5.100	- 5.400
GLC-1251	Glazing Clip****	0.50	0.220	- 0.250
GLC-1252	Glazing Clip***	0.58	0.251	- 0.270
GLC-1253	Glazing Clip**	0.65	0.271	- 0.300
GLC-1254	Glazing Clip*	0.70	0.301	- 0.320
GLC-1255	Glazing Clip	0.75	0.321	- 0.350
G-1271	G - Channel	2.00	2.450	- 2.650
HGS-1281	Twinstyle Door Series (Hollow Glass Section)	2.40	7.100	- 7.600
34S-1301	Outer Frame - 34 Series	1.50	1.650	- 1.900
34S-1305	Shuter Frame - 34 Series	1.50	1.350	- 1.600
34S-1310	Mullion - 34 Series	1.50	2.400	- 2.600
34S-1315	Clip - 34 Series*	0.85	0.480	- 0.550
34S-1316	Clip - 34 Series	1.00	0.550	- 0.650
34S-1318	Cleat Angle - 34 Series	3.80	3.450	- 3.650
40S-1321	Outer Frame - 40 Series	2.30	2.100	- 2.300
40S-1325	Shuter Frame - 40 Series	1.25	2.100	- 2.300
40S-1330	Mullion - 40 Series	1.80	3.100	- 3.400
40S-1335	Clip - 40 Series	1.20	0.550	- 0.650
CW-1423	Curtain Wall 50.5 x 50.5 *2MM	2.00	4.500	- 4.700
CW-1426	Curtain Wall 75 x 55 MM	1.50	4.100	- 4.300
CW-1431	Curtain Wall 115 x 44 MM	1.80	6.100	- 6.500
RT-1501	Rectangle Tube 38MM X 25MM**	0.65	0.750	- 0.850
RT-1502	Rectangle Tube 38MM X 25MM*	0.68	0.850	- 1.000
RT-1503	Rectangle Tube 38MM X 25MM*	0.90	1.000	- 1.200
RT-1504	Rectangle Tube 38MM X 25MM	1.05	1.200	- 1.400
RT-1506	Rectangle Tube 50MM X 25MM	0.65	0.800	- 1.000
RT-1507	Rectangle Tube 50MM X 25MM	0.75	1.000	- 1.200
RT-1508	Rectangle Tube 50MM X 25MM	0.90	1.200	- 1.400
RT-1509	Rectangle Tube 50MM X 25MM	1.30	1.800	- 2.100
RT-1509	Rectangle Tube 50MM X 25MM	3.00	2.700	- 3.000
RT-1511	Rectangle Tube 63.50MM X 38.10MM	0.75	1.350	- 1.550
RT-1512	Rectangle Tube 63.50MM X 38.10MM	1.20	2.000	- 2.200
RT-1513	Rectangle Tube 63.50MM X 38.10MM	1.75	2.900	- 3.100
RT-1514	Rectangle Tube 63.50MM X 38.10MM	3.00	5.400	- 5.600
RT-1521	Rectangle Tube 101.60MM X 44.45MM	1.20	4.000	- 4.200
RT-1522	Rectangle Tube 101.60MM X 44.45MM	1.30	4.300	- 4.600
SQT-1551	Square Tube 19MM X 19MM	1.00	0.720	- 0.850
SQT-1552	Square Tube 25MM X 25MM	0.65	0.600	- 0.800
FRT-1751	FLUTED TUBE-1"	1.50	1.100	- 1.300
FRT-1752	FLUTED TUBE-1"	1.50	1.300	- 1.500
FRT-1753	FLUTED TUBE-1"	2.00	1.500	- 1.700
RT-1611	Round Tube 25MM x 16MM	4.50	2.800	- 3.000
RT-1621	Round Tube 30MM x 17MM	6.50	4.700	- 4.900
RT-1625	Round Tube 32MM x 20MM	6.00	4.800	- 5.000
RT-1628	Round Tube 33MM x 21MM	6.00	5.000	- 5.200

\* Extra premium will be charged


**DIES LIST**

Section Number	Section Name	T	Weight Range 12'	
RT-1631	Round Tube 38MM x 23MM	7.50	7.100	- 7.400
RT-1641	Round Tube 48MM x 31MM	8.50	10.380	- 10.680
RT-1651	Round Tube 54MM x 34MM	10.00	12.800	- 14.200
L-1761	C SECTION LADDER 66.68MM X 31.75MM	1.30	1.600	- 1.800
L-1762	C SECTION LADDER 66.68MM X 31.75MM	1.60	1.900	- 2.100
L-1764	C SECTION LADDER 66.68MM X 31.75MM	2.30	2.600	- 2.800
ST-1771	Stapazing	0.80	1.400	- 1.600
SW-1801	Two Track Top(18 mm series)*	0.80	1.700	- 1.900
SW-1811	Three Track Top (18 mm series)*	0.80	2.400	- 2.600
SW-1821	Two Track Bottom (18 mm series)*	0.80	2.100	- 2.300
SW-1831	Three Track Bottom (18 mm series)*	0.80	2.500	- 2.700
SW-1841	A Section (18 mm series)*	0.80	1.100	- 1.300
SW-1851	H Section (18 mm series)*	0.80	1.100	- 1.300
SW-1861	Interlock (18+C303 mm series)*	0.80	1.200	- 1.400
SW-2001	Two Track Top(20 mm series)*	0.80	1.700	- 1.900
SW-2002	Two Track Top(20 mm series)	1.00	1.900	- 2.100
SW-2003	Two Track Top(20 mm series)	1.15	2.200	- 2.400
SW-2004	Two Track Top(20 mm series)	1.30	2.400	- 2.700
SW-2005	Two Track Top(20 mm series)	1.50	2.700	- 2.950
SW-2006	Two Track Top(20 mm series)	1.70	2.950	- 3.200
SW-2011	Three Track Top (20 mm series)*	0.85	2.400	- 2.600
SW-2012	Three Track Top (20 mm series)	1.00	2.600	- 2.900
SW-2013	Three Track Top (20 mm series)	1.15	3.000	- 3.300
SW-2014	Three Track Top (20 mm series)	1.35	3.500	- 3.800
SW-2015	Three Track Top (20 mm series)	1.50	3.700	- 4.100
SW-2016	Three Track Top (20 mm series)	1.65	4.100	- 4.400
SW-2021	Two Track Bottom (20 mm series)*	0.85	2.000	- 2.200
SW-2022	Two Track Bottom (20 mm series)	1.00	2.200	- 2.400
SW-2023	Two Track Bottom (20 mm series)	1.15	2.500	- 2.700
SW-2024	Two Track Bottom (20 mm series)	1.30	2.700	- 3.000
SW-2025	Two Track Bottom (20 mm series)	1.50	3.000	- 3.300
SW-2026	Two Track Bottom (20 mm series)	1.65	3.300	- 3.700
SW-2031	Three Track Bottom (20 mm series)*	0.85	2.800	- 3.100
SW-2032	Three Track Bottom (20 mm series)	1.00	3.100	- 3.400
SW-2033	Three Track Bottom (20 mm series)	1.15	3.400	- 3.800
SW-2034	Three Track Bottom (20 mm series)	1.30	3.800	- 4.200
SW-2035	Three Track Bottom (20 mm series)	1.50	4.200	- 4.500
SW-2036	Three Track Bottom (20 mm series)	1.65	4.500	- 4.800
SW-2072	Four Track Top (20 mm series)	1.20	4.200	- 4.400
SW-2082	Four Track Bottom (20 mm series)	1.20	4.700	- 4.900
SW-2041	A Section (20 mm series)*	0.90	1.050	- 1.200
SW-2042	A Section (20 mm series)	1.10	1.200	- 1.400
SW-2043	A Section (20 mm series)	1.30	1.400	- 1.600
SW-2044	A Section (20 mm series)	1.40	1.600	- 1.800
SW-2045	A Section (20 mm series)	1.50	1.800	- 2.000
SW-2046	A Section (20 mm series)	1.65	2.000	- 2.200
SW-2051	H Section (20 mm series)*	0.90	1.100	- 1.300
SW-2052	H Section (20 mm series)	1.10	1.250	- 1.500
SW-2053	H Section (20 mm series)	1.30	1.500	- 1.700
SW-2055	H Section (20 mm series)	1.50	1.700	- 1.900

\* Extra premium will be charged


**DIES LIST**

Section Number	Section Name	T	Weight Range 12'	
SW-2056	H Section (20 mm series)	1.65	1.900	- 2.100
SW-2061	Interlock (20 mm series)*	0.85	1.200	- 1.350
SW-2062	Interlock (20 mm series)	1.00	1.400	- 1.600
SW-2063	Interlock (20 mm series)	1.15	1.600	- 1.750
SW-2064	Interlock (20 mm series)	1.30	1.900	- 2.100
SW-2065	Interlock (20 mm series)	1.50	2.100	- 2.300
SW-2066	Interlock (20 mm series)	1.60	2.300	- 2.700
SD-2102	Two Track Top Sliding Door	1.80	4.400	- 4.700
SD-2122	Two Track Bottom Sliding Door	1.80	5.500	- 5.900
SD-2111	Three Track Top Sliding Door	1.80	6.200	- 6.600
SD-2132	Three Track Bottom Sliding Door	1.80	8.000	- 8.500
SD-2142	A Section Sliding Door	1.80	3.500	- 3.800
SD-2152	H Section Sliding Door	1.80	3.600	- 3.900
SD-2162	Interlock Sliding Door	1.80	4.100	- 4.400
UEA-3106	Unequal Angle 38 MM X 25MM	2.15	1.400	- 1.600
UEA-3111	Unequal Angle 50 MM X 25MM	2.85	2.000	- 2.200
EA-3202	Equal Angle 25 MM X 25MM	1.50	0.700	- 0.800
EA-3203	Equal Angle 25 MM X 25MM	2.80	1.300	- 1.500
EA-3204	Equal Angle 38 MM X 38MM	3.75	2.700	- 2.900
EA-3205	Equal Angle 50 MM X 50MM	4.50	4.200	- 4.400
EA-3211	Equal Angle 50 MM X 50MM	6.00	5.500	- 5.700
TEE-3301	Bulb Tee 25MM X 25MM*	1.00	0.485	- 0.525
TEE-3302	Bulb Tee 25MM X 25MM	1.30	1.300	- 1.500
TEE-3311	Bulb Tee 38MM X 25MM*	1.10	0.650	- 0.750
TEE-3315	Bulb Tee 38MM X 38MM	1.35	1.000	- 1.100
RDR-7203	Round Rod	12.00	1.100	- 1.300
RDR-7205	Round Rod	15.80	1.900	- 2.100
RDR-7207	Round Rod	19.00	2.700	- 2.900
RDR-7211	Round Rod	25.40	4.900	- 5.100
RDR-7213	Round Rod	30.00	6.900	- 7.200
RDR-7219	Round Rod	32.00	7.900	- 8.200
RDR-7221	Round Rod	36.00	9.900	- 10.200
SQR-7001	Square Rod Without Radius	12.70	1.600	- 1.800
SQR-7003	Square Rod Without Radius	15.80	2.500	- 2.700
SQR-7004	Square Rod Without Radius	19.00	3.600	- 3.800
SQR-7005	Square Rod Without Radius	25.40	6.300	- 6.500
SQR-7007	Square Rod Without Radius	32.00	10.100	- 10.500
SQR-7009	Square Rod Without Radius	38.00	14.300	- 15.000
DRC - 7501	Double Roller Channel	2.30	3.900	- 4.100
WC - 7506	Water Channel 46MM	0.85	0.750	- 0.800
WC - 7511	Water Channel 50MM	0.85	0.750	- 0.850
LS - 7516	L Section	1.60	1.700	- 1.800
BB-7801	Bus Body H	1.50	1.250	- 1.400
BB-7806	Bus Body F	1.10	1.000	- 1.200

\* Extra premium will be charged




**FLAT BAR**

Section Number	Dimension in MM		Weight Range in 12'
	A	T	
7400	17.00	4.00	0.680 - 0.780
7401	19.00	1.00	0.190 - 0.290
7401A	19.00	1.50	0.280 - 0.300
7401B	19.00	2.00	0.370 - 0.400
7402	19.00	3.00	0.570 - 0.670
7403	19.00	6.00	1.140 - 1.240
7404	25.00	1.00	0.250 - 0.350
7404A	25.00	1.50	0.370 - 0.400
7404B	25.00	2.00	0.490 - 0.520
7404C	25.00	2.50	0.600 - 0.700
7405	25.00	3.00	0.750 - 0.850
7406	25.00	5.00	1.250 - 1.350
7407	25.00	6.00	1.500 - 1.700
7408	25.00	9.50	2.375 - 2.575
7409	25.00	12.00	3.000 - 3.200
7411	38.00	3.00	1.100 - 1.300
7413	38.00	6.00	2.280 - 2.480
7414	38.00	9.50	3.610 - 3.810
7426	40.00	3.00	1.200 - 1.400
7427	40.00	6.00	2.400 - 2.600
7428	40.00	10.00	4.000 - 4.200
7430	50.00	4.50	2.250 - 2.450
7431	50.00	6.00	3.000 - 3.200
7433	50.00	10.00	5.000 - 5.200
7435	50.00	12.00	6.000 - 6.200
7436	50.00	12.50	6.250 - 6.450
7441	63.00	9.50	5.985 - 6.185
7442	63.00	10.00	6.300 - 6.500
7443	63.00	12.00	7.560 - 7.760
7445	75.00	6.00	4.500 - 4.700
7446	75.00	10.00	7.500 - 7.700
7449	75.00	12.00	9.000 - 9.300
7452	80.00	10.00	8.000 - 9.300
7455	100.00	6.00	6.000 - 6.200
7457	100.00	10.00	10.000 - 10.300
7459	100.00	12.00	12.000 - 12.400
7462	125.00	10.00	12.500 - 13.000
7465	150.00	6.00	9.000 - 9.300
7466	150.00	10.00	15.000 - 15.400
7467	150.00	12.00	18.000 - 19.000



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