



# INDO ALUSYS INDUSTRIES LIMITED

(Formerly Mahavir Aluminium Limited)  
Superior Technology Superior Solutions



## ALUMINIUM MOTOR BODIES CATALOGUES



## COMPANY PROFILE



M/s Indo Alusys Industries Ltd. (IAIL) is formerly M/s Mahavir Aluminium Ltd. IAIL's story is one of innovation, dedication and diversification in a short span of time since our inception in 1982 on our former name. We have already established ourselves as leading manufacturer of Aluminium Extruded Products / Profiles in India. Besides being a pace setter for the industry, we have acquired an able track record of rendering satisfactory services to our valuable customers in India and globally.

### LOCATION

IAIL plant is located 70 kms. from the capital of India, New Delhi in the highly developed Industrial Area of Bhiwadi in the Alwar district of Rajasthan and it's head office at Connaught Place, New Delhi.

### MACHINERY

IAIL has four numbers of Hydraulic Extrusion Presses of 2100 US tonnes, 1650 US tonnes, 1250 US tonnes and 1100 US tonnes capacity. The operations are controlled by Micro-processor based technology and programmable logic control (PLC) system for the above extrusion presses. Furnaces are equipped with fuel efficient regulative burners.

### TECHNOLOGY

The Plant has a most modern Foundry to cast high quality Aluminium alloy billets applying hot top casting process. The alloy composition of the billets are controlled by computerized

spectrometer at the stage of melting and subsequent casting. The plant also have sophisticated extrusion handling systems / equipments which includes an Automatic Extrusion Puller and other related equipments like Lift-off Arm, Walking Beam, Storage / Transfer Conveyer, Saw Conveyer etc. to avoid manual handling to produce scratch free material suitable for subsequent treatments like Anodizing, Electro Coloring and Powder Coating.





## COMPANY PROFILE



### QUALITY

IAL believes that quality is not checked but an inbuilt process of quality assurance. Quality control measures are applied at every stage of operation during production to ensure "ZERO DEFECT."

Very strict and close control of raw material Aluminium and its alloys is achieved by analyzing and controlling chemical composition through a computerized spectrometer.

Extrusion dies which form the heart of an extrusion process are manufactured in house by computerized CNC Milling and Wire Cut machine and Spark-Erosion-cum-Electrical Discharge machines and subsequently polished through super finish polishing machine to achieve a very high degree of dimensional accuracy, close tolerances and smooth surface finish for its extruded profiles and sections. IAIL offers wide range of extruded profiles for all major end use segments and have approximately, 10,000 dies to cater to high quality extrusion requirements in various industry sectors.

### ANODIZING

IAL has its in-house facilities for Anodizing and Electro Coloring having Sophisticated Technology acquired from Italy. Anodizing and Electro Coloring is an electro chemical process which gives an anodic thickness of the desired microns as per

the requirement by making available natural (Mat/Satin), very light bronze, medium bronze, dark bronze and black shades. Besides these colours IAIL have processes for various other colours to suit the requirement of its customers with upto 30 microns and length upto 6.2 meters.

### POWDER COATING

IAL have Powder Coating facility which is the ultimate and latest in Architectural field. Powder Coating of polyester, or epoxy powder paints are excellent in their quality, which contains 100 percent solid material without non-essential or Superfluous components being applied to the objects by one of the well known methods of Electrostatic Charging. Subsequently treated for polymerisation of electrostatically charged powder to form a hard and uniform film length upto 6.2 meters.

### DISTINCTIVE ADVANTAGE

IAL can supply the material in various colour shades with coating of 60 to 80 microns or more as per requirements of its customers.

- Stable, rich and uniform colour surface.
- Excellent durability after special electro chemical treatment.
- Anti Corrosion and weathering of coloured surface against air pollution, sunrays and humidity.
- No discoloration by ultra-violet rays.



- More than 60 percent of the Aluminium products in the world are produced by this process. This process is acknowledged as better and more economical than any other process.

### MINIMUM ORDER

A minimum quantity of 300 kg in one specification is acceptable in case of sections included in this catalogue. In case of enquiry for a new section, a minimum quantity of 500 kg is acceptable. By “specification” we mean section No., Cut length, alloy and temper, packing etc.

### LENGTH

Extrusions will be supplied in Standard Length of 3.66 meter and/or more or as per requirements.

### WEIGHT

The weight per meter length given in this catalogue is the nominal weight and should be treated as an indication. Actual Weight may vary  $\pm$  10% of the catalogue weight.

### DIMENSIONS & TOLERANCES

Sections will be supplied in our standard dimensional tolerances as per BS 1474 : 1987 or as per customer's requirement, ( IS, EN or ASTM) . Although the dimensions have been indicated in MM in the catalogue, to ensure that the correct section is ordered, the full dimensions and tolerances should be confirmed.

### SHIPPING TOLERANCES

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

### HOW TO ORDER

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

- Section No.
- Alloy & Temper
- Cut Length (in mm)
- Quantity (in kg)
- Surface finish and exposed surface
- End-use
- Mode of packing
- Conductivity, if required



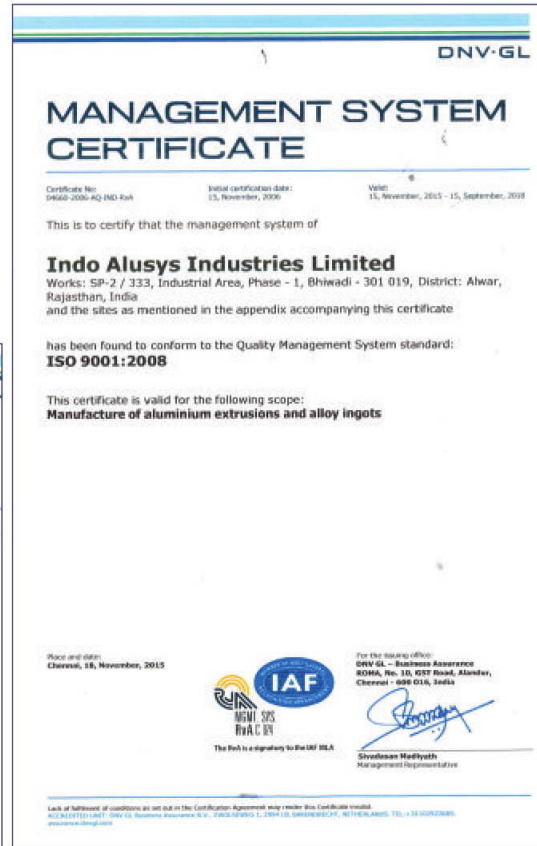
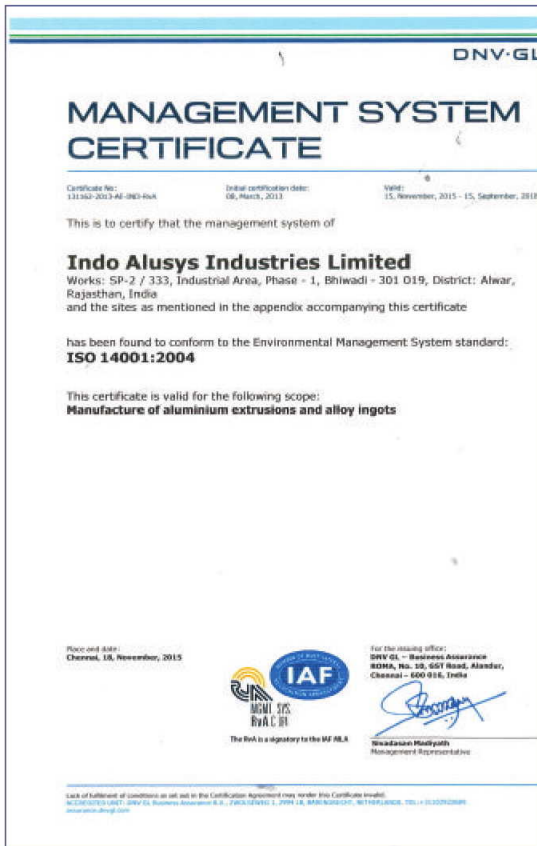


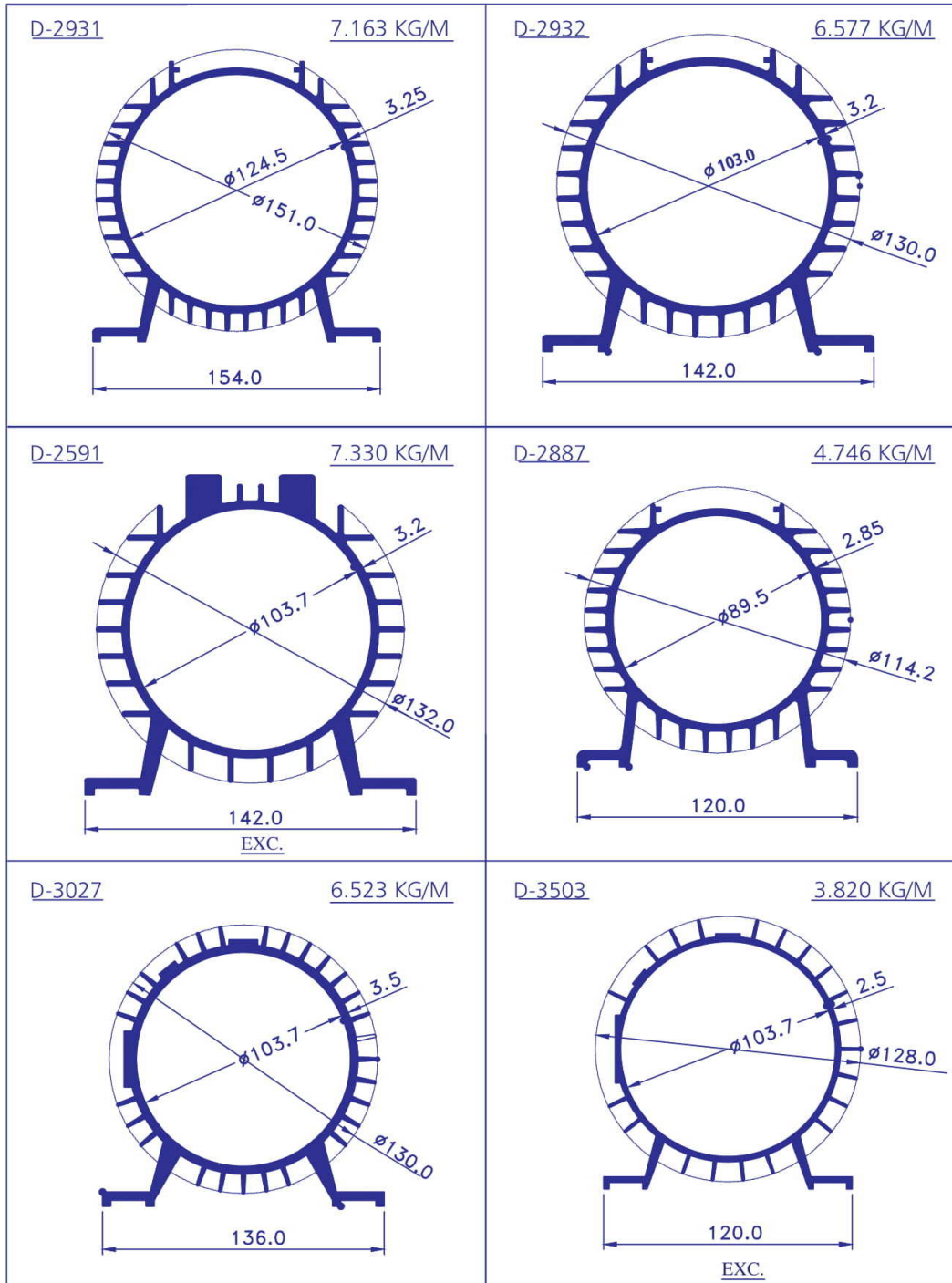
# CERTIFICATES



## ISO CERTIFICATION

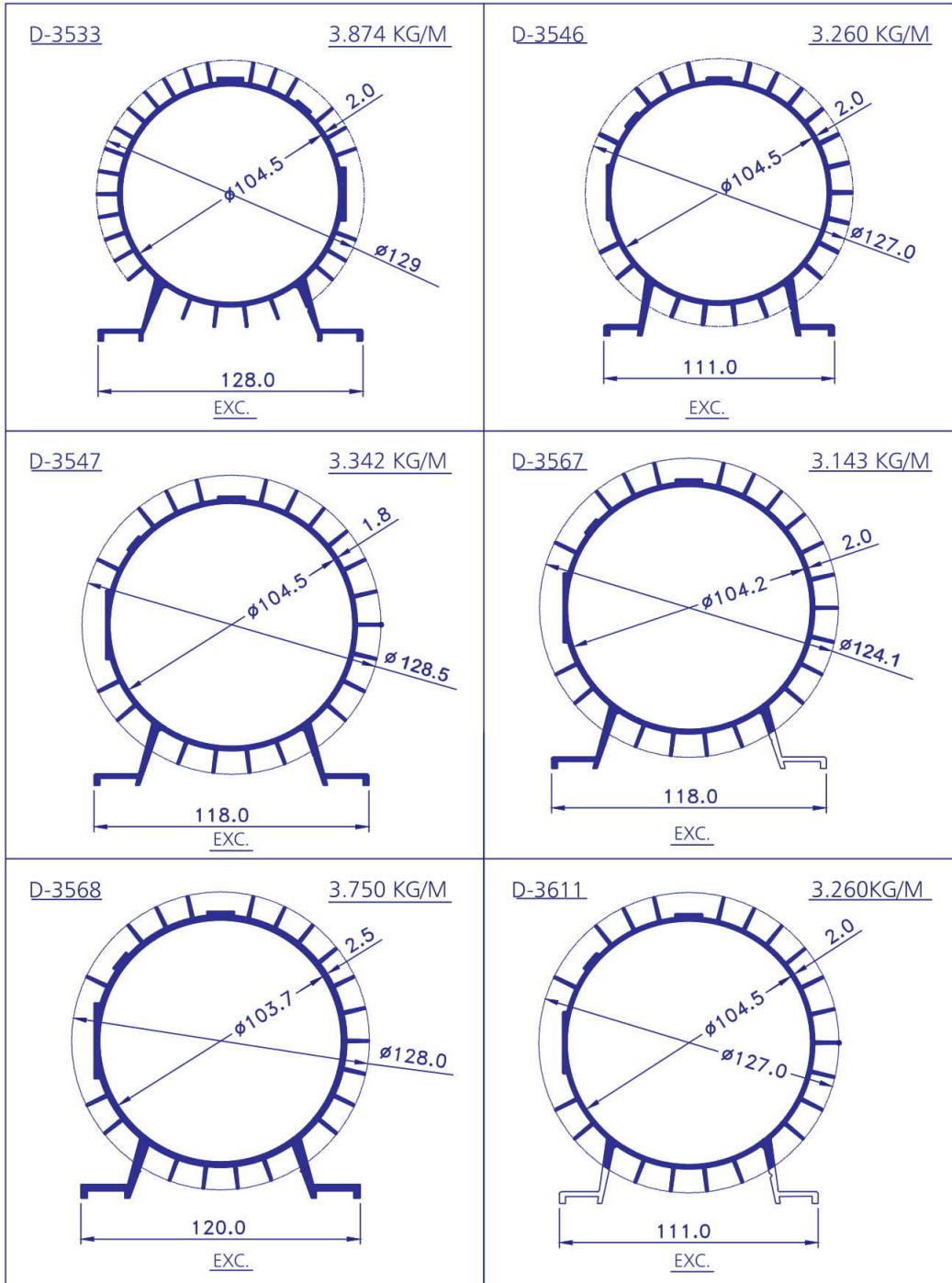
IAL has the distinction of being the extrusion Company to have ISO 9001:2008 & ISO 14001:2004 Certification from world renowned certifying Agency DET NORSKE VERITAS (DNV) of NETHERLAND.





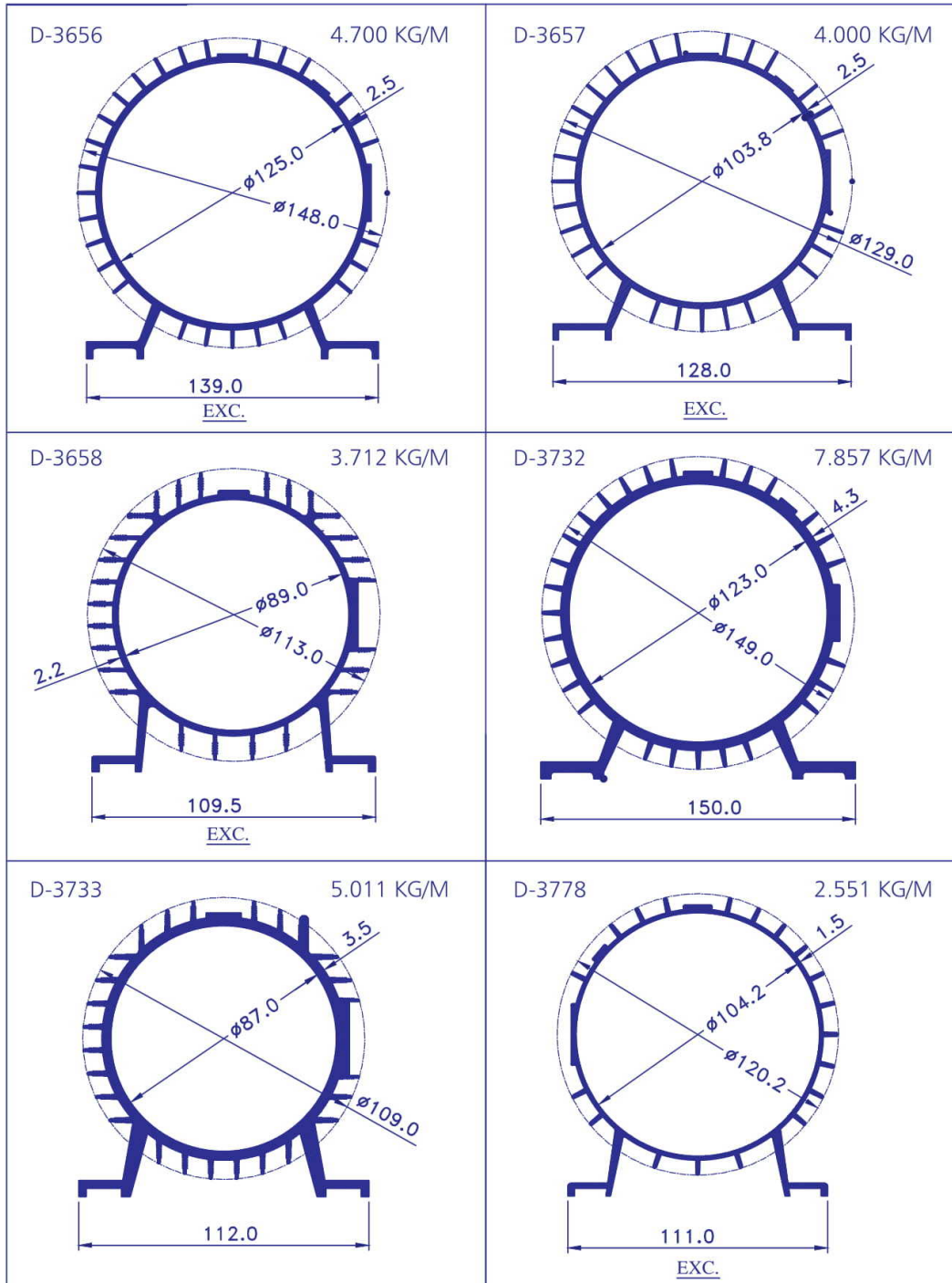
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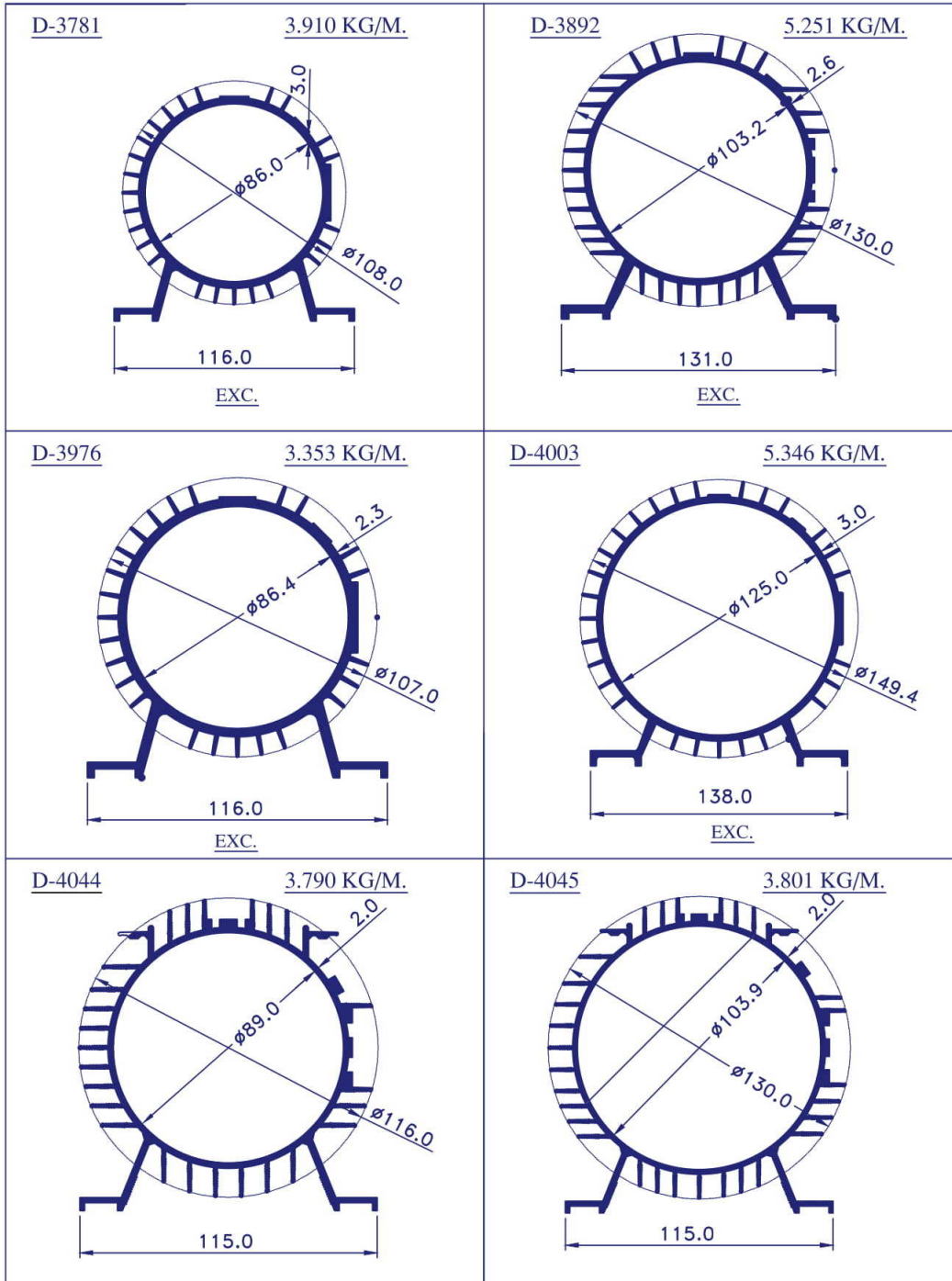




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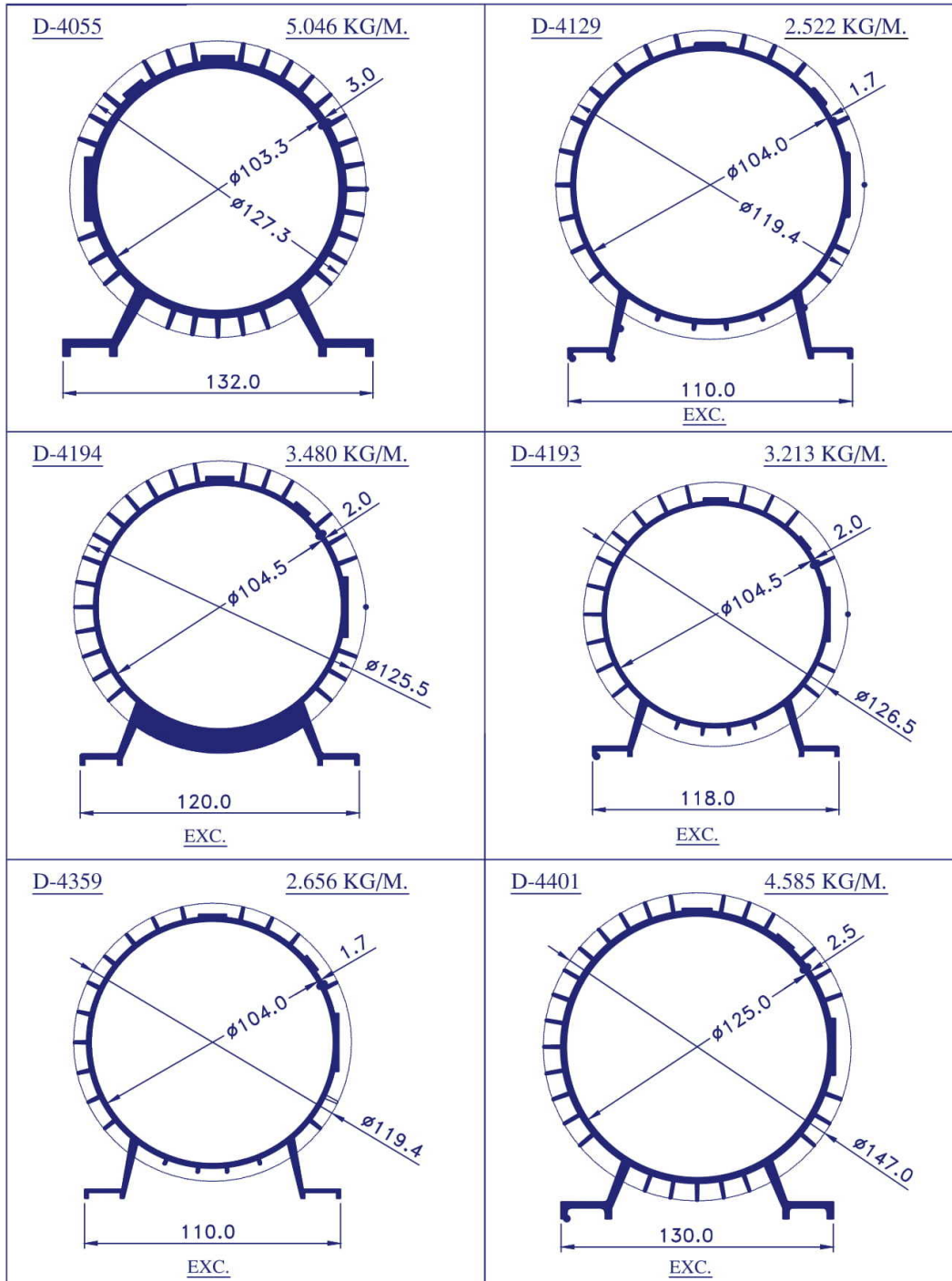






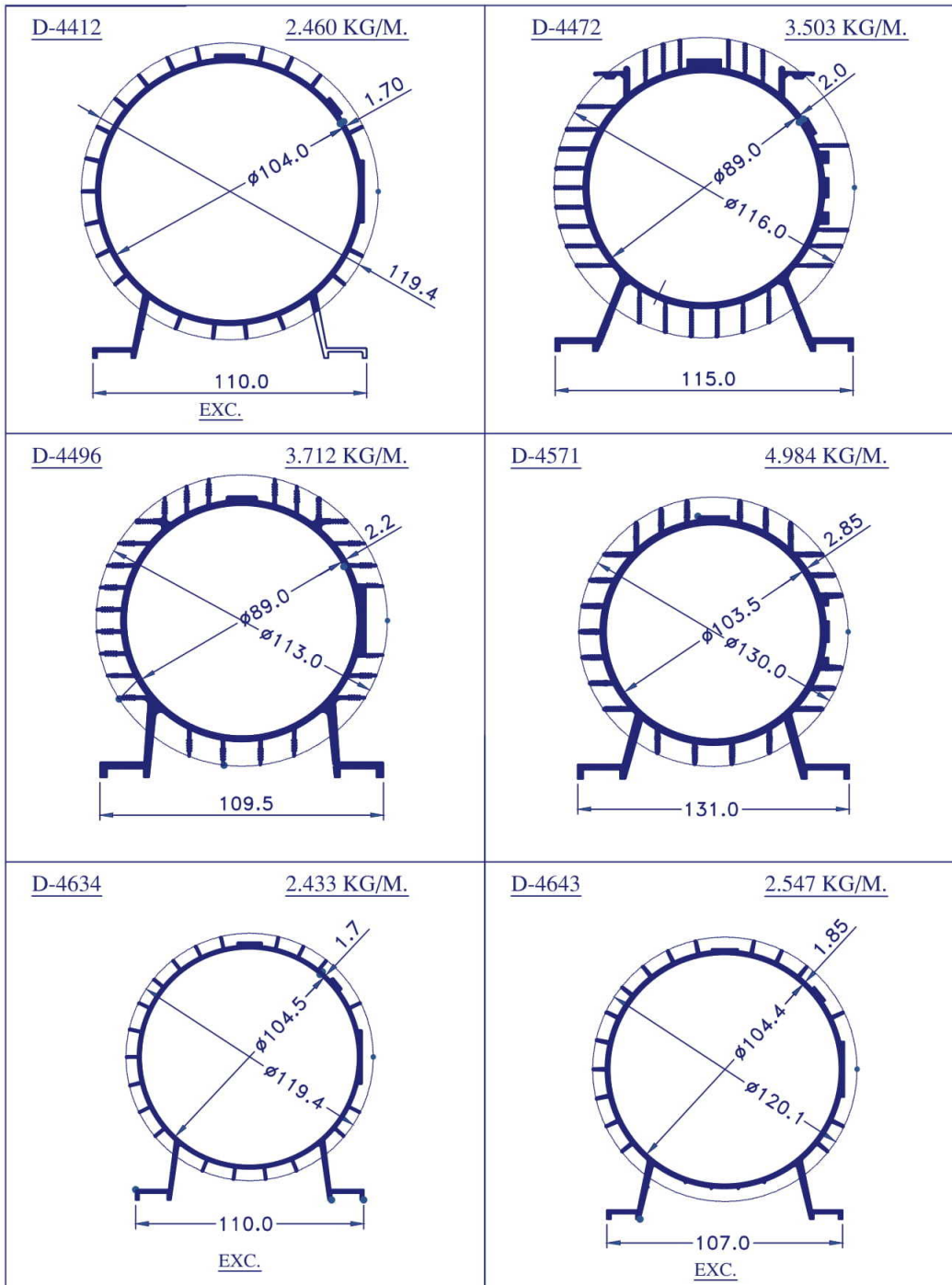
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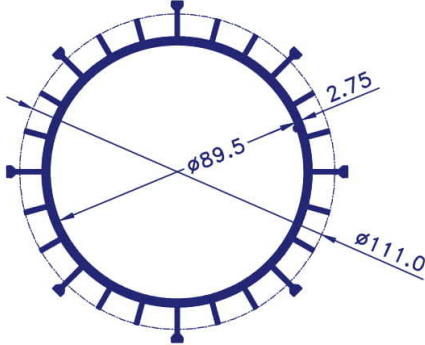
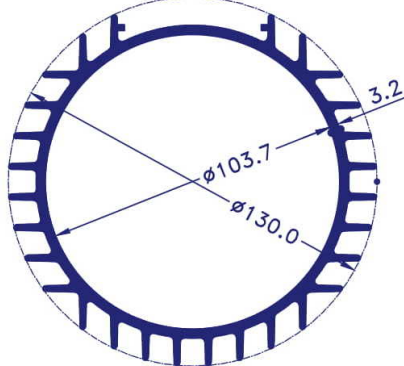
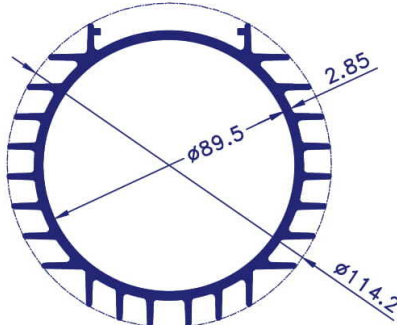
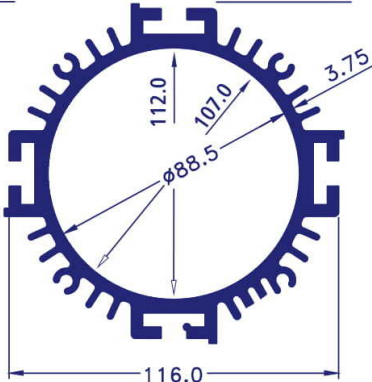
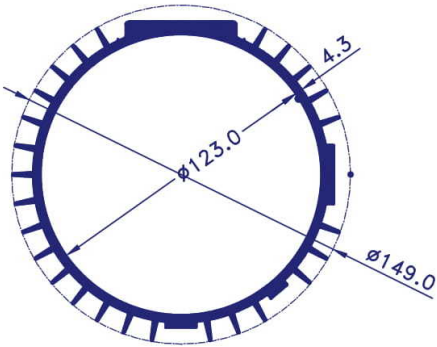
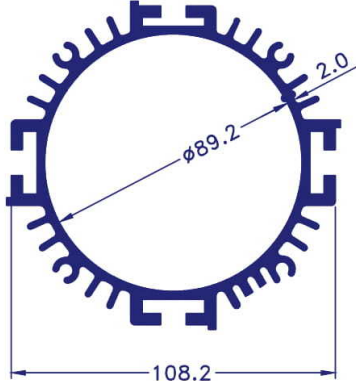
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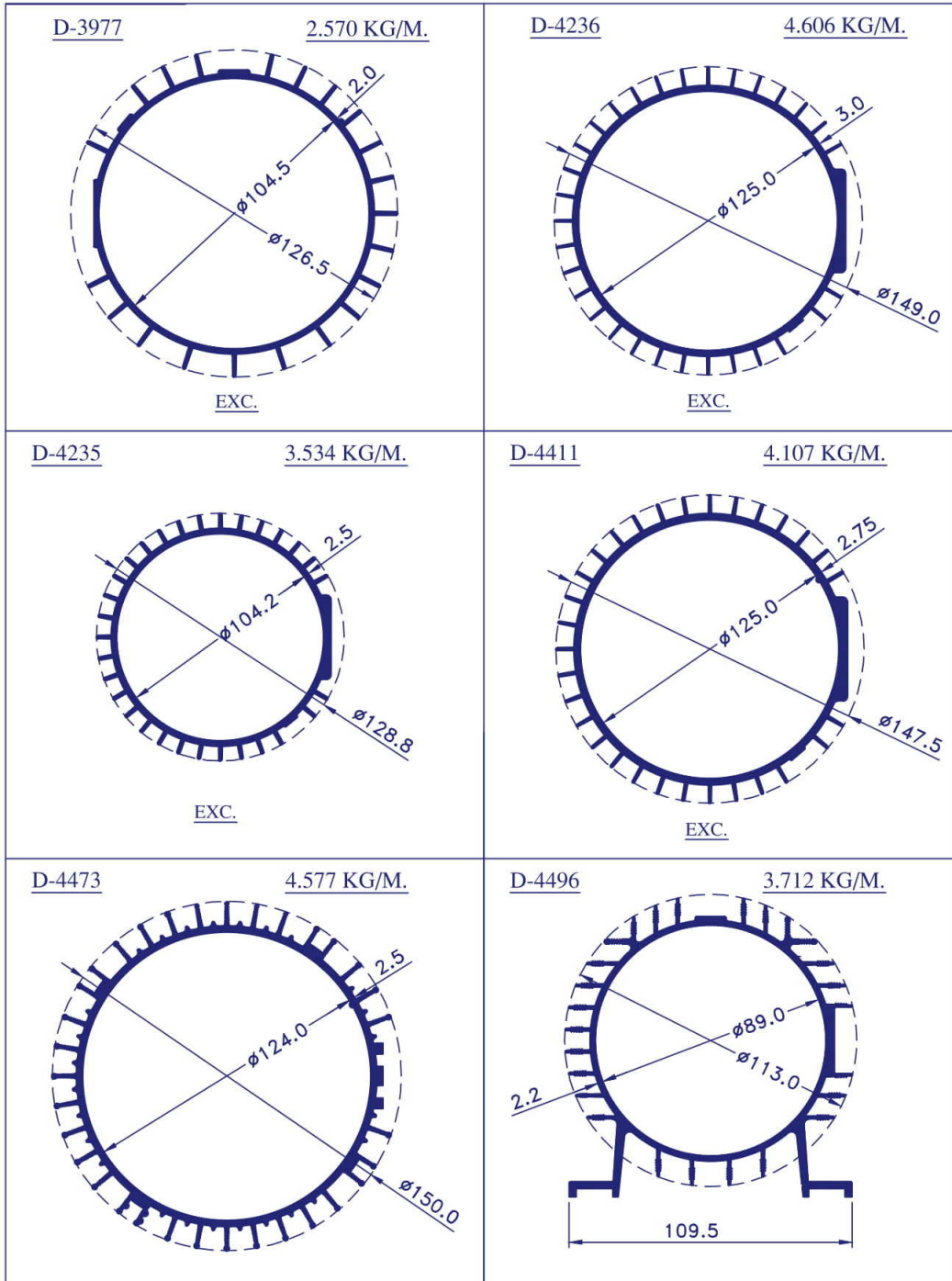
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<p><u>D-2950</u>                      <u>3.198 KG/M.</u></p> 	<p><u>D-2959</u>                      <u>4.676 KG/M.</u></p>  <p>EXC.</p>
<p><u>D-2960</u>                      <u>3.638 KG/M.</u></p>  <p>EXC.</p>	<p><u>D-3028</u>                      <u>5.900KG/M.</u></p> 
<p><u>D-3744</u>                      <u>6.729 KG/M.</u></p> 	<p><u>D-3782</u>                      <u>3.430 KG/M.</u></p>  <p>EXC.</p>

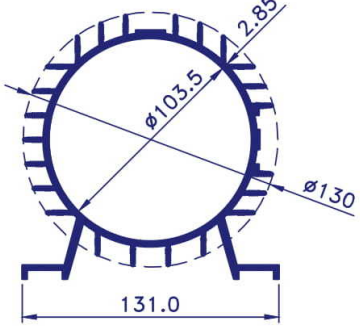
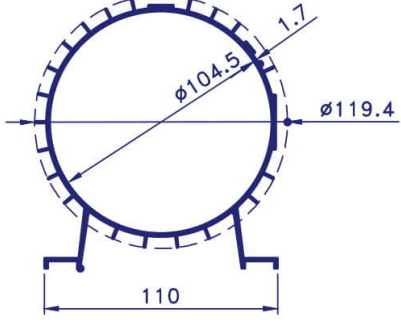
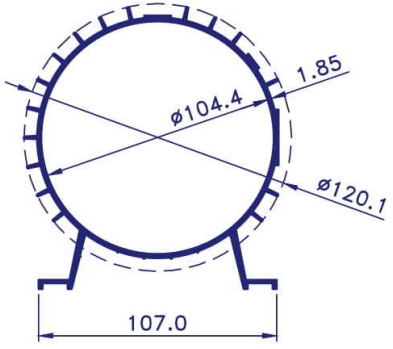
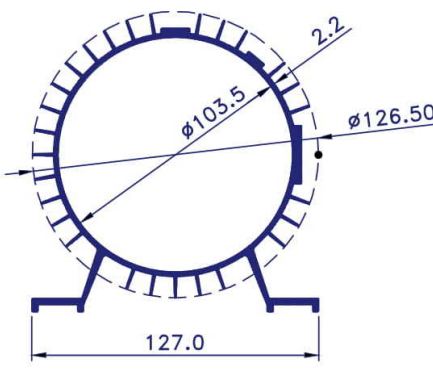
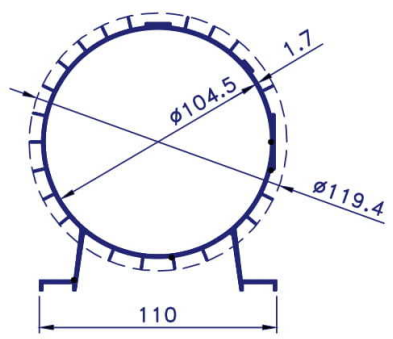
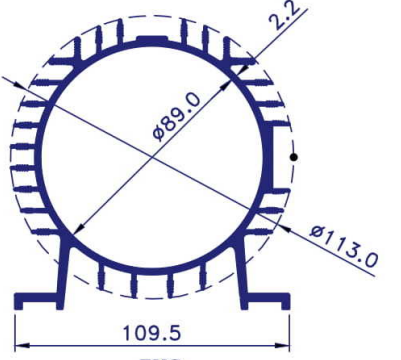
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<p>D-4571                      4.984 KG/M.</p> 	<p>D-4634                      2.433 KG/M.</p>  <p>EXC.</p>
<p>D-4643                      2.547 KG/M.</p>  <p>EXC.</p>	<p>D-6948                      3.880KG./M.</p>  <p>EXC.</p>
<p>D-6944                      2.440KG./M.</p>  <p>EXC.</p>	<p>D-6945                      3.793KG./M.</p>  <p>EXC.</p>

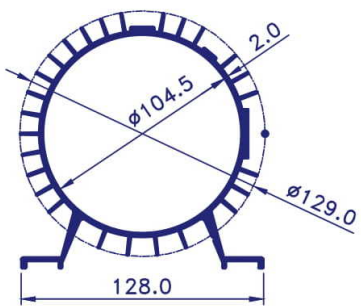
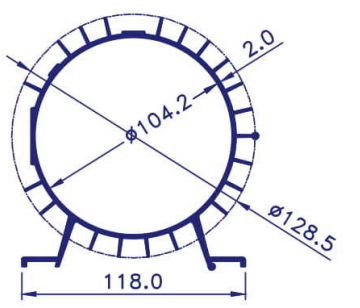
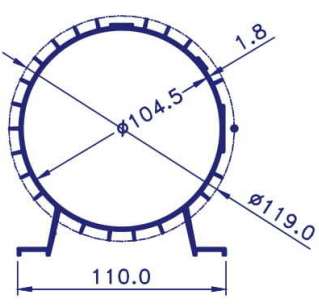
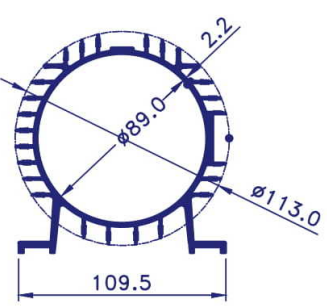
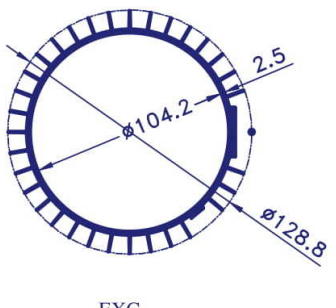
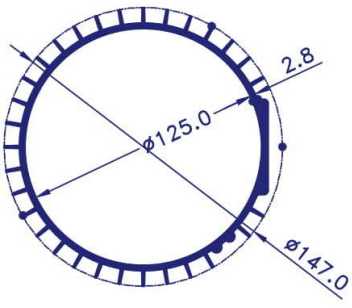
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<p>D-4662                      3.168 KG/M.</p> <p>EXC.</p>	<p>D-4663                      2.444 KG/M.</p> <p>EXC.</p>
<p>D-4799                      5.112 KG/M.</p> <p>EXC.</p>	<p>D-4819                      2.633 KG/M.</p> <p>EXC.</p>
<p>D-4820                      4.585 KG/M.</p> <p>EXC.</p>	<p>D-4896                      4.300 KG/M.</p> <p>EXC.</p>

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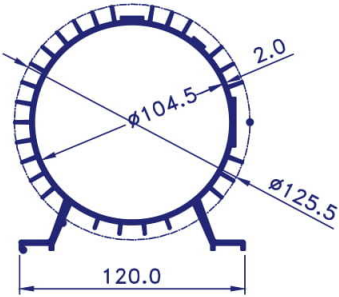
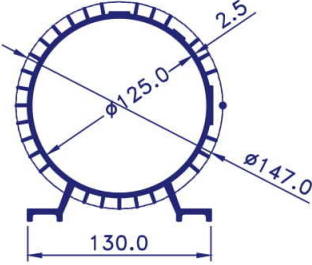
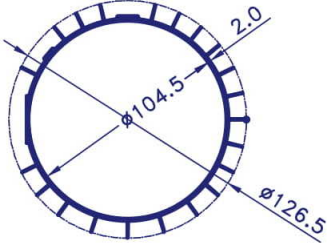
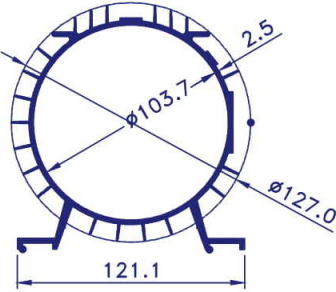
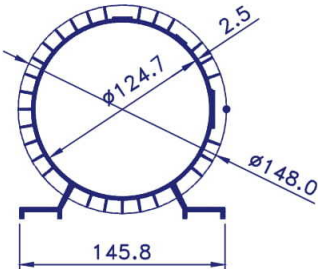
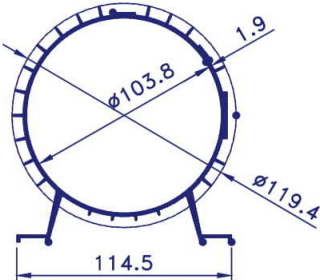


<p>D-4976 <span style="float: right;">3.874KG./M.</span></p>  <p style="text-align: center;"><u>EXC.</u></p>	<p>D-4977 <span style="float: right;">3.342KG./M.</span></p>  <p style="text-align: center;"><u>EXC.</u></p>
<p>D-4978 <span style="float: right;">2.470KG./M.</span></p>  <p style="text-align: center;"><u>EXC.</u></p>	<p>D-4979 <span style="float: right;">3.712KG./M.</span></p>  <p style="text-align: center;"><u>EXC.</u></p>
<p>D-4980 <span style="float: right;">3.534KG./M.</span></p>  <p style="text-align: center;"><u>EXC.</u></p>	<p>D-4981 <span style="float: right;">4.117KG./M.</span></p>  <p style="text-align: center;"><u>EXC.</u></p>

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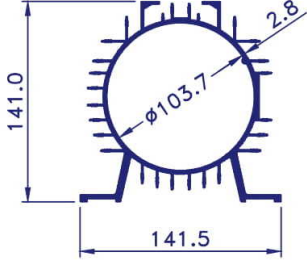
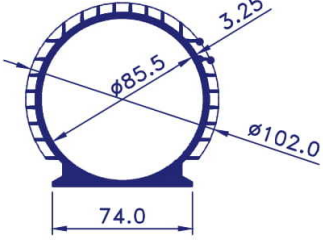
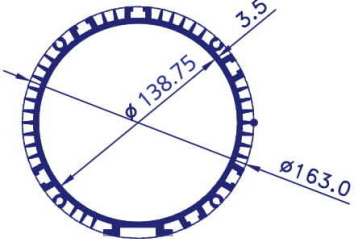
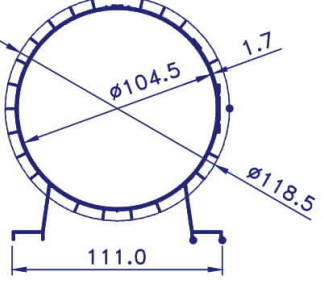
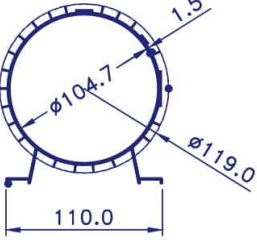
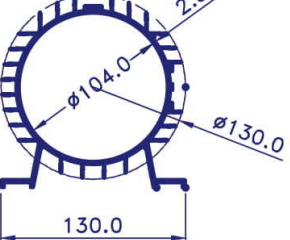




<p>D-4982 <span style="float: right;">3.476KG./M.</span></p>  <p style="text-align: center;"><u>EXC.</u></p>	<p>D-5020 <span style="float: right;">4.585KG./M.</span></p>  <p style="text-align: center;"><u>EXC.</u></p>
<p>D-5046 <span style="float: right;">2.570KG./M.</span></p>  <p style="text-align: center;"><u>EXC.</u></p>	<p>D-5256 <span style="float: right;">4.043KG./M.</span></p>  <p style="text-align: center;"><u>EXC.</u></p>
<p>D-5284 <span style="float: right;">4.845 KG./M.</span></p>  <p style="text-align: center;"><u>EXC.</u></p>	<p>D-5304 <span style="float: right;">2.758KG./M.</span></p>  <p style="text-align: center;"><u>EXC.</u></p>

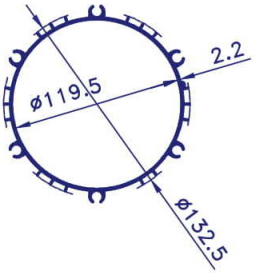
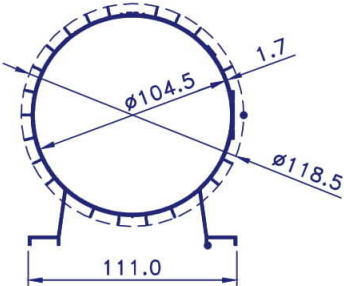
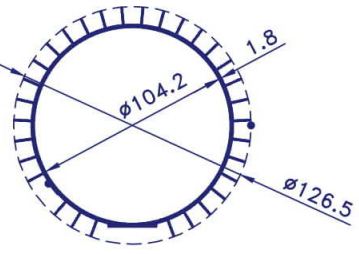
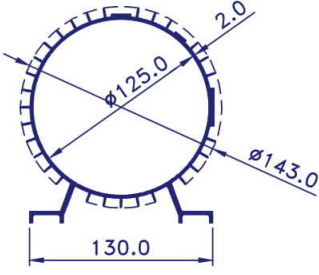
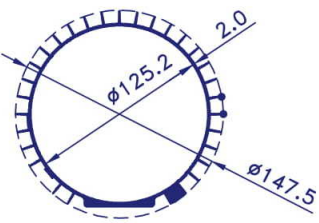
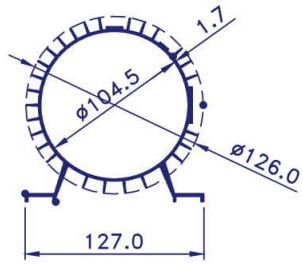
ALL DIMENSIONS ARE IN MM



<p>D-5469 <span style="float: right;">5.87 KG./M.</span></p> 	<p>D-5977 <span style="float: right;">3.719KG./M.</span></p> 
<p>D-5978 <span style="float: right;">7.955 KG./M.</span></p> 	<p>D-6031 <span style="float: right;">2.270KG./M.</span></p>  <p style="text-align: center;">EXC.</p>
<p>D-6108 <span style="float: right;">2.275KG./M.</span></p>  <p style="text-align: center;">EXC.</p>	<p>D-6120 <span style="float: right;">4.350KG./M.</span></p> 

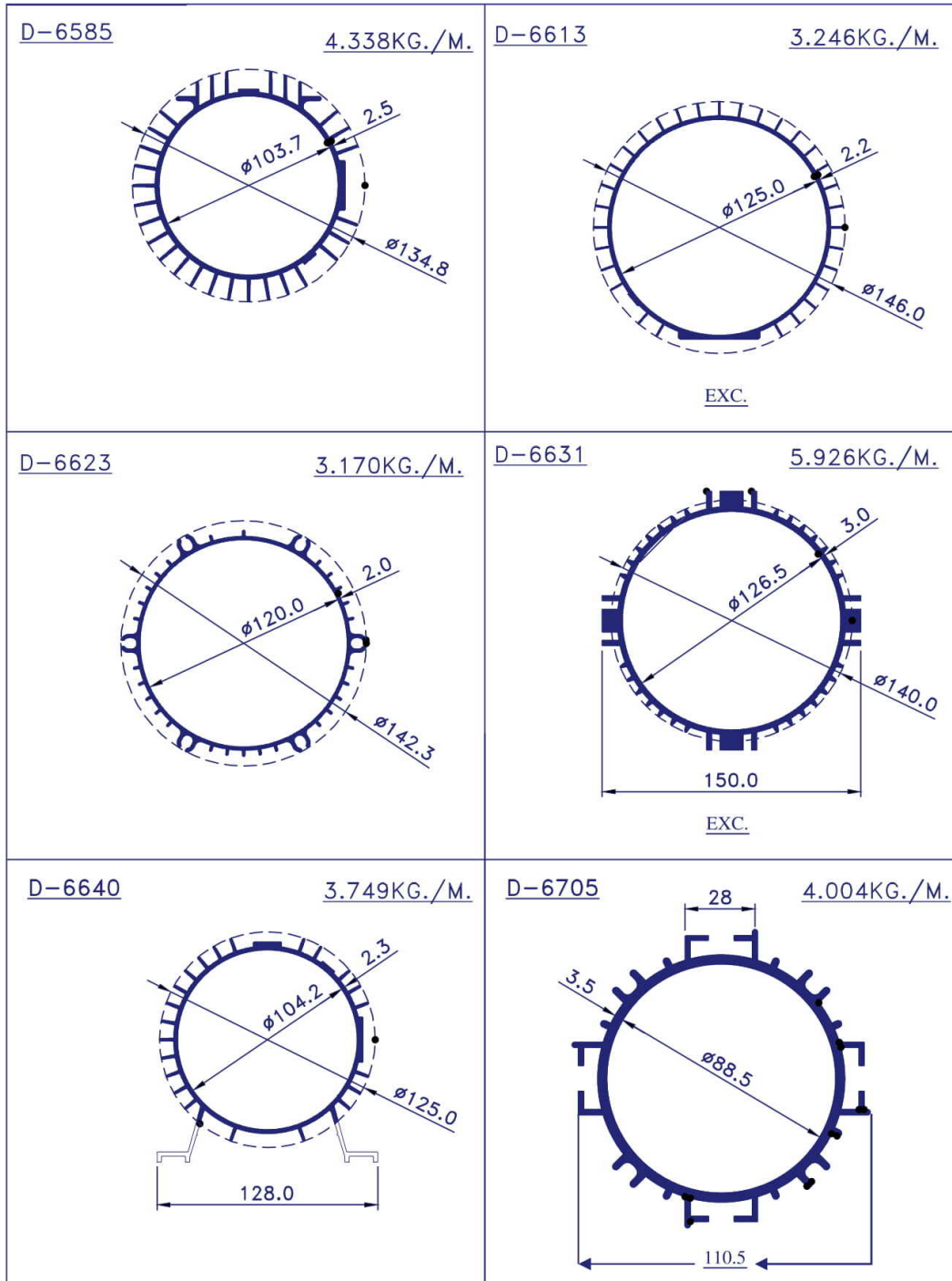
ALL DIMENSIONS ARE IN MM



<p>D-6202 <span style="float: right;">3.207KG./M.</span></p> 	<p>D-6266 <span style="float: right;">2.270KG./M.</span></p>  <p style="text-align: center;">EXC.</p>
<p>D-6300 <span style="float: right;">2.470KG./M.</span></p>  <p style="text-align: center;">EXC.</p>	<p>D-6308 <span style="float: right;">3.804KG./M.</span></p>  <p style="text-align: center;">EXC.</p>
<p>D-6309 <span style="float: right;">3.488KG./M.</span></p>  <p style="text-align: center;">EXC.</p>	<p>D-6406 <span style="float: right;">3.254KG./M.</span></p>  <p style="text-align: center;">EXC.</p>

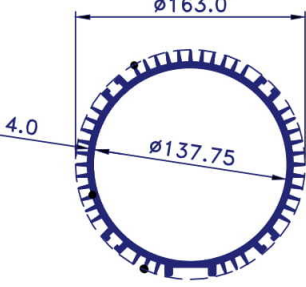
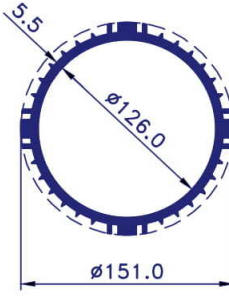
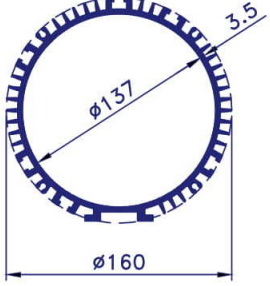
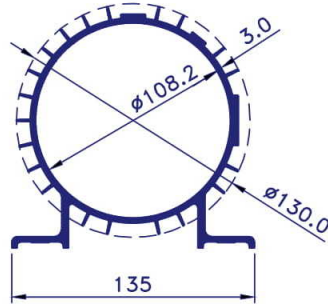
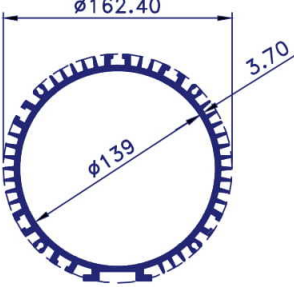
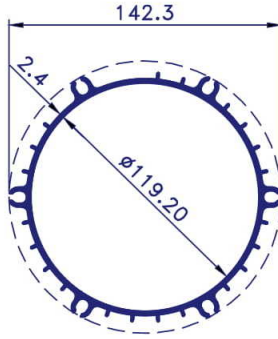
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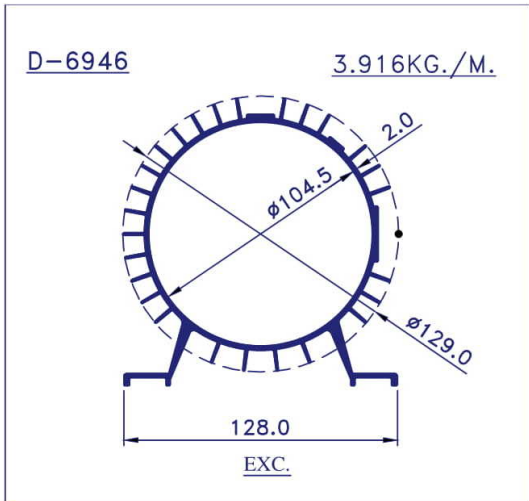
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<p><u>D-6735</u> <span style="float: right;">7.200KG./M.</span></p> 	<p><u>D-6784</u> <span style="float: right;">7.967KG./M.</span></p>  <p style="text-align: center;"><u>EXC.</u></p>
<p><u>D-6799</u> <span style="float: right;">7.131KG./M.</span></p>  <p style="text-align: center;"><u>EXC.</u></p>	<p><u>D-6866</u> <span style="float: right;">4.851KG./M.</span></p> 
<p><u>D-6921</u> <span style="float: right;">7.433KG./M.</span></p>  <p style="text-align: center;"><u>EXC.</u></p>	<p><u>D-6939</u> <span style="float: right;">3.491KG./M.</span></p> 

ALL DIMENSIONS ARE IN MM





ALL DIMENSIONS ARE IN MM



### **CORPORATE OFFICE**

606, Tolstoy House, 15 Tolstoy Marg, New Delhi 110001  
Tel.: +91-11-43564200 / 224, Fax: +91-11-43564243  
E-mail: [marketing@indoalusys.com](mailto:marketing@indoalusys.com), [info@indoalusys.com](mailto:info@indoalusys.com)  
Website: [www.indoalusys.com](http://www.indoalusys.com)

### **WORKS**

SP-2/333, Industrial Area, Bhiwadi, Distt. Alwar, Rajasthan 301019, India  
Tel.: 01493-220764 / 220870 / 220868 / 220924 / 306500

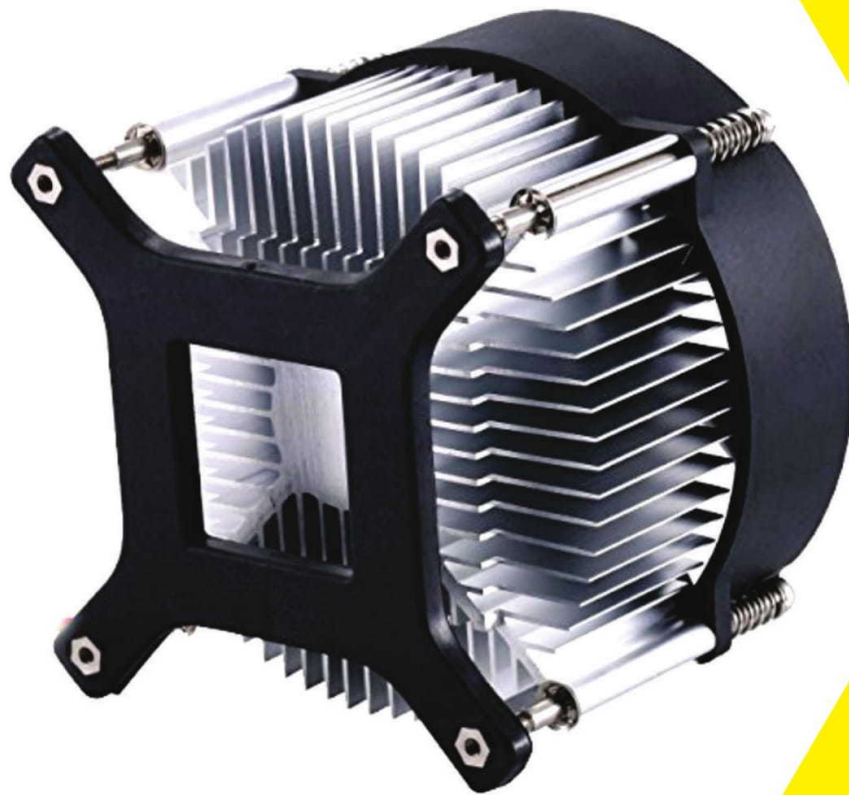


**For Marketing Enquiry Contact Corporate Office**



# INDO ALUSYS INDUSTRIES LIMITED

(Formerly Mahavir Aluminium Limited)  
Superior Technology Superior Solutions



## ALUMINIUM HEAT SINK PROFILES CATALOGUE





## COMPANY PROFILE



M/s Indo Alusys Industries Ltd. (IAL) is formerly M/s Mahavir Aluminium Ltd. IAL's story is one of innovation, dedication and diversification in a short span of time since our inception in 1982 on our former name. We have already established ourselves as leading manufacturer of Aluminium Extruded Products / Profiles in India. Besides being a pace setter for the industry, we have acquired an able track record of rendering satisfactory services to our valuable customers in India and globally.

### LOCATION

IAL plant is located 70 kms. from the capital of India, New Delhi in the highly developed Industrial Area of Bhiwadi in the Alwar district of Rajasthan and it's head office at Connaught Place, New Delhi.

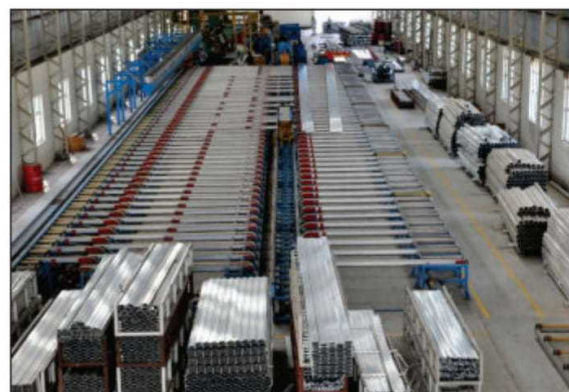
### MACHINERY

IAL has four numbers of Hydraulic Extrusion Presses of 2100 US tonnes, 1650 US tonnes, 1250 US tonnes and 1100 US tonnes capacity. The operations are controlled by Micro-processor based technology and programmable logic control (PLC) system for the above extrusion presses. Furnaces are equipped with fuel efficient regulative burners.

### TECHNOLOGY

The Plant has a most modern Foundry to cast high quality Aluminium alloy billets applying hot top casting process. The alloy composition of the billets are controlled by computerized

spectrometer at the stage of melting and subsequent casting. The plant also have sophisticated extrusion handling systems / equipments which includes an Automatic Extrusion Puller and other related equipments like Lift-off Arm, Walking Beam, Storage / Transfer Conveyer, Saw Conveyer etc. to avoid manual handling to produce scratch free material suitable for subsequent treatments like Anodizing, Electro Coloring and Powder Coating.





## COMPANY PROFILE



### QUALITY

IAL believes that quality is not checked but an inbuilt process of quality assurance. Quality control measures are applied at every stage of operation during production to ensure "ZERO DEFECT."

Very strict and close control of raw material Aluminium and its alloys is achieved by analyzing and controlling chemical composition through a computerized spectrometer.

Extrusion dies which form the heart of an extrusion process are manufactured in house by computerized CNC Milling and Wire Cut machine and Spark-Erosion-cum-Electrical Discharge machines and subsequently polished through super finish polishing machine to achieve a very high degree of dimensional accuracy, close tolerances and smooth surface finish for its extruded profiles and sections. IAL offers wide range of extruded profiles for all major end use segments and have approximately, 10,000 dies to cater to high quality extrusion requirements in various industry sectors.

### ANODIZING

IAL has its in-house facilities for Anodizing and Electro Coloring having Sophisticated Technology acquired from Italy. Anodizing and Electro Coloring is an electro chemical process which gives an anodic thickness of the desired microns as per

the requirement by making available natural (Mat/Satin), very light bronze, medium bronze, dark bronze and black shades. Besides these colours IAL have processes for various other colours to suit the requirement of its customers with upto 30 microns and length upto 6.2 meters.

### POWDER COATING

IAL have Powder Coating facility which is the ultimate and latest in Architectural field. Powder Coating of polyester, or epoxy powder paints are excellent in their quality, which contains 100 percent solid material without non-essential or Superfluous components being applied to the objects by one of the well known methods of Electrostatic Charging. Subsequently treated for polymerisation of electrostatically charged powder to form a hard and uniform film length upto 6.2 meters.

### DISTINCTIVE ADVANTAGE

IAL can supply the material in various colour shades with coating of 60 to 80 microns or more as per requirements of its customers.

- Stable, rich and uniform colour surface.
- Excellent durability after special electro chemical treatment.
- Anti Corrosion and weathering of coloured surface against air pollution, sunrays and humidity.
- No discoloration by ultra-violet rays.



- More than 60 percent of the Aluminium products in the world are produced by this process. This process is acknowledged as better and more economical than any other process.

### MINIMUM ORDER

A minimum quantity of 300 kg in one specification is acceptable in case of sections included in this catalogue. In case of enquiry for a new section, a minimum quantity of 500 kg is acceptable. By "specification" we mean section No., Cut length, alloy and temper, packing etc.

### LENGTH

Extrusions will be supplied in Standard Length of 3.66 meter and/or more or as per requirements.

### WEIGHT

The weight per meter length given in this catalogue is the nominal weight and should be treated as an indication. Actual Weight may vary  $\pm$  10% of the catalogue weight.

### DIMENSIONS & TOLERANCES

Sections will be supplied in our standard dimensional tolerances as per BS 1474 : 1987 or as per customer's requirement, (IS, EN or ASTM) . Although the dimensions have been indicated in MM in the catalogue, to ensure that the correct section is ordered, the full dimensions and tolerances should be confirmed.

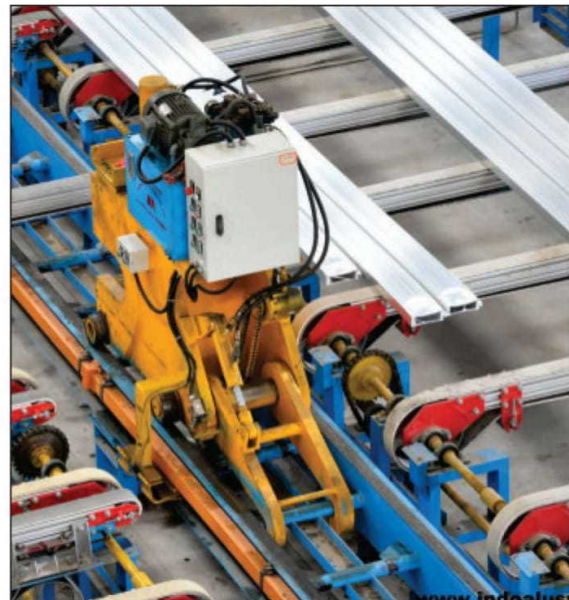
### SHIPPING TOLERANCES

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

### HOW TO ORDER

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

- Section No.
- Alloy & Temper
- Cut Length (in mm)
- Quantity (in kg)
- Surface finish and exposed surface
- End-use
- Mode of packing
- Conductivity, if required





# COMPANY PROFILE



## ISO CERTIFICATION

IAIL has the distinction of being the extrusion Company to have ISO 9001:2008 & ISO 14001:2004 Certification from world renowned certifying Agency DET NORSKE VERITAS (DNV) of NETHERLAND.

DNV-GL

## MANAGEMENT SYSTEM CERTIFICATE

Certificate No: 131162-2013-AE-IND-RvA      Initial certification date: 08, March, 2013      Valid: 15, November, 2015 - 15, September, 2018

This is to certify that the management system of

**Indo Alusys Industries Limited**  
Works: SP-2 / 333, Industrial Area, Phase - 1, Bhiwadi - 301 019, District: Alwar, Rajasthan, India  
and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Environmental Management System standard:  
**ISO 14001:2004**

This certificate is valid for the following scope:  
**Manufacture of aluminium extrusions and alloy ingots**

---

Place and date:  
Chennai, 18, November, 2015



The RvA is a signatory to the IAF MLA

For the issuing office:  
DNV GL - Business Assurance  
RDMA, No. 10, GST Road, Alandur,  
Chennai - 600 016, India



Sivadasan Madiyath  
Management Representative

Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid.  
ACCREDITED UNIT: DNV GL Business Assurance B.V., ZWOLSEWEG 1, 2094 LB, BARENDRICHT, NETHERLANDS. TEL: +31102922689.  
assurance.dnvgl.com

DNV-GL

## MANAGEMENT SYSTEM CERTIFICATE

Certificate No: 04660-2006-A2-IND-RvA      Initial certification date: 15, November, 2006      Valid: 15, November, 2015 - 15, September, 2018

This is to certify that the management system of

**Indo Alusys Industries Limited**  
Works: SP-2 / 333, Industrial Area, Phase - 1, Bhiwadi - 301 019, District: Alwar, Rajasthan, India  
and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Quality Management System standard:  
**ISO 9001:2008**

This certificate is valid for the following scope:  
**Manufacture of aluminium extrusions and alloy ingots**

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Place and date:  
Chennai, 18, November, 2015



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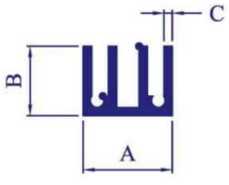
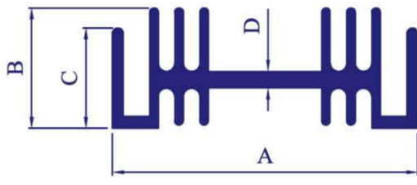
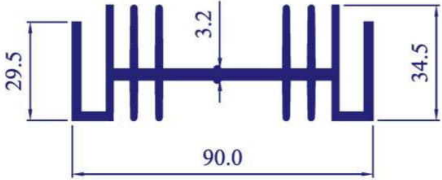
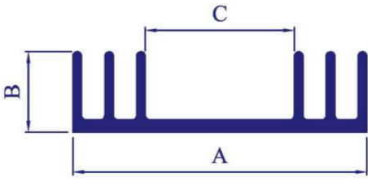
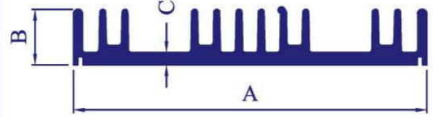
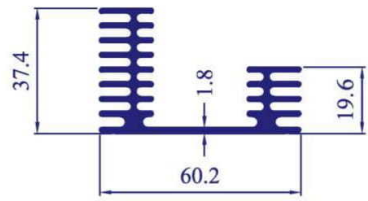
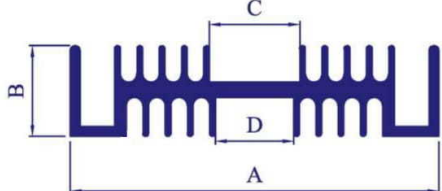
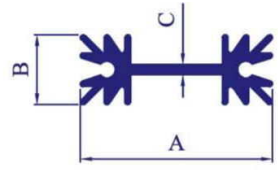
Sivadasan Madiyath  
Management Representative

Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid.  
ACCREDITED UNIT: DNV GL Business Assurance B.V., ZWOLSEWEG 1, 2094 LB, BARENDRICHT, NETHERLANDS. TEL: +31102922689.  
assurance.dnvgl.com



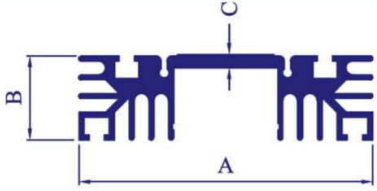
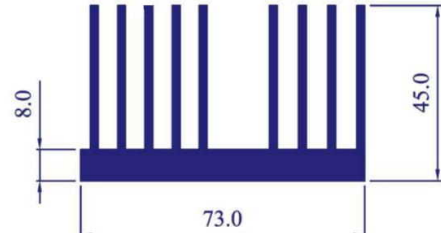
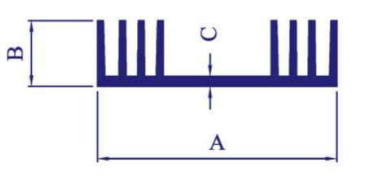
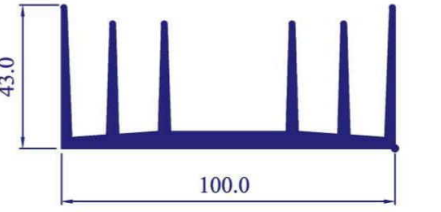
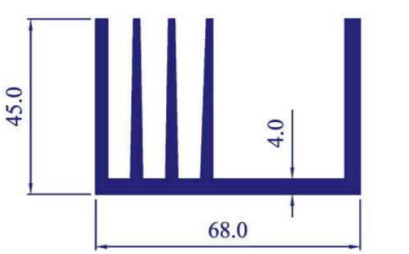
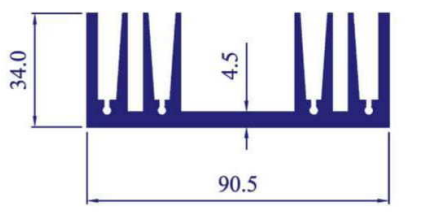
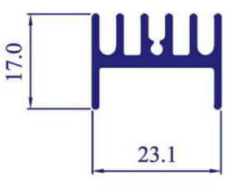
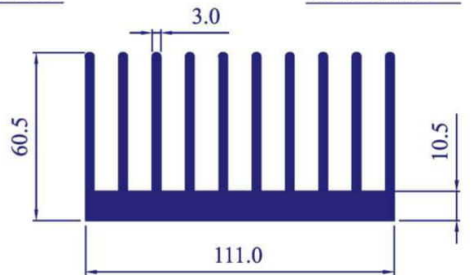
SEC. NO	A	B	C	Kg/M.	SEC.NO	A	B	C	Kg/M.																		
G-320	60.50	8.80	0.90	0.300	G-329	24.80	24.80	1.20	0.250																		
G-321	60.00	9.00	0.80	0.283	G-330	25.40	23.27	1.28	0.220																		
G-322	48.00	9.50	0.80	0.233	G-331	25.40	23.27	1.28	0.220																		
<p><b>G-582</b> <span style="float: right;"><b>1.669KG/M</b></span>                      (*EX.)</p>					<p><b>G-583</b> <span style="float: right;"><b>0.530KG/M</b></span>                      (*EX.)</p>																						
<p><b>G-584</b> <span style="float: right;"><b>8.081KG/M</b></span></p>					<table border="1"> <thead> <tr> <th>SEC.NO</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>Kg/ M.</th> </tr> </thead> <tbody> <tr> <td>G-585</td> <td>66.00</td> <td>33.50</td> <td>18.00</td> <td>2.80</td> <td>0.970</td> </tr> <tr> <td>G-719</td> <td>66.00</td> <td>33.60</td> <td>15.50</td> <td>2.00</td> <td>0.706</td> </tr> </tbody> </table>					SEC.NO	A	B	C	D	Kg/ M.	G-585	66.00	33.50	18.00	2.80	0.970	G-719	66.00	33.60	15.50	2.00	0.706
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<p><b>G-586</b> <span style="float: right;"><b>0.350KG/M</b></span></p>					<p><b>G-587</b> <span style="float: right;"><b>0.625KG/M</b></span></p>																						

ALL DIMENSIONS ARE IN MM

																																																					
SEC. NO	A	B	C	Kg/M.	SEC. NO	A	B	C	D	Kg/M.																																											
G-588	16.00	12.50	1.50	0.251	G-589	91.40	36.00	30.00	5.00	2.887																																											
G-620	16.00	14.30	1.25	0.280	G-630	91.50	35.00	30.00	4.00	2.325																																											
<b>G-668</b> <span style="float: right;"><b>2.046KG./M</b></span>																																																					
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ALL DIMENSIONS ARE IN MM



					<p>G-596 <span style="float: right;">3.375KG./M</span></p> 	
SEC. NO	A	B	C	Kg/M.		
G-657	88.00	25.30	3.40	1.795		
G-595	88.70	25.30	4.00	2.036		
					<p>G-598 <span style="float: right;">2.470KG./M</span></p> 	
SEC. NO	A	B	C	Kg/M.		
G-597	43.00	11.80	1.80	0.465		
G-755	89.50	35.00	4.70	2.686		
<p>G-599 <span style="float: right;">2.257KG./M</span></p> 					<p>G-600 <span style="float: right;">2.700KG./M</span></p> 	
<p>G-601 <span style="float: right;">0.314KG./M</span></p> 					<p>G-602 <span style="float: right;">7.175KG./M</span></p> 	

ALL DIMENSIONS ARE IN MM



SEC. NO	A	B	C	Kg/M.
G-861	130.8	18.00	2.50	1.596

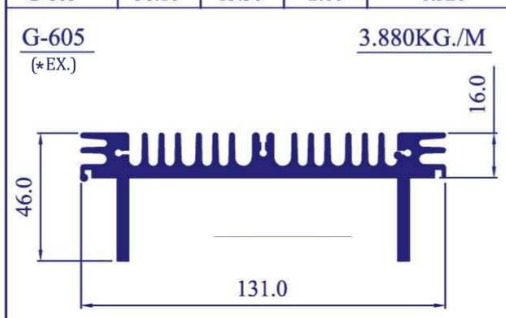
  

SEC. NO	A	B	C	Kg/M.
G-603	56.50	16.00	3.50	0.810
G-698	57.00	16.10	2.50	0.661
G-805	56.10	15.30	2.00	0.520

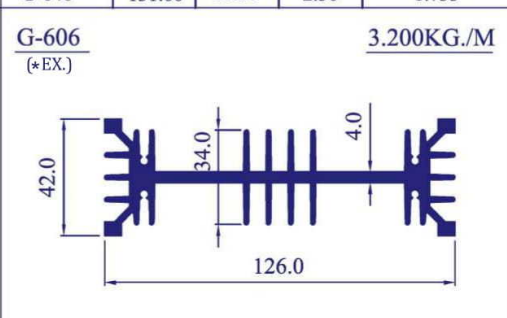
  

SEC. NO	A	B	C	Kg/M.
G-604	131.00	18.00	3.50	1.970
G-859	131.00	18.00	3.50	1.970
G-646	131.00	18.00	2.50	1.733

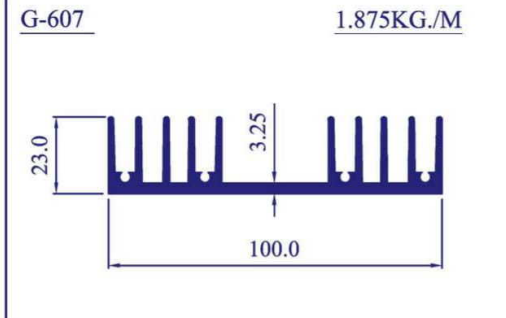
  

G-605 (*EX.)	3.880KG/M			
				

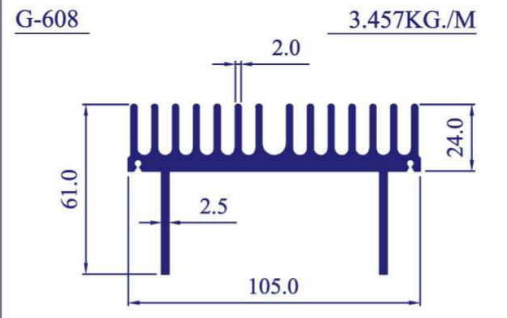
  

G-606 (*EX.)	3.200KG/M			
				

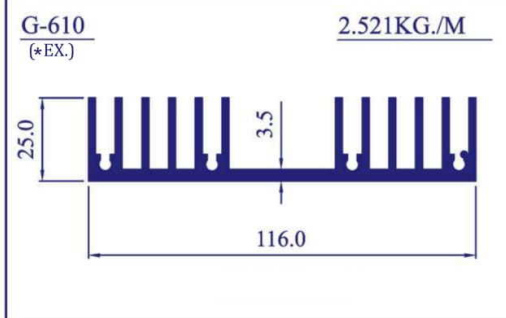
  

G-607	1.875KG/M			
				

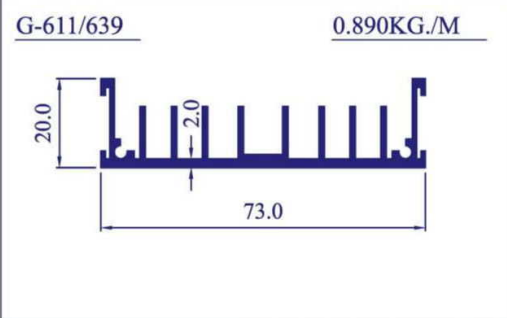
  

G-608	3.457KG/M			
				

G-610 (*EX.)	2.521KG/M			
				

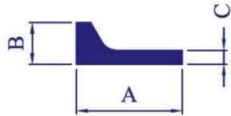
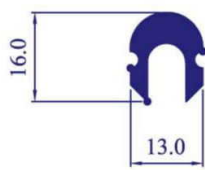
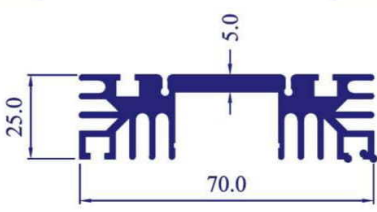
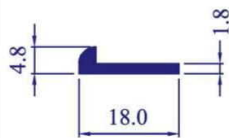
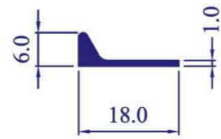
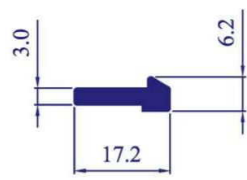
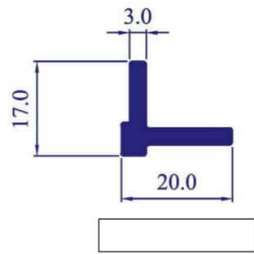
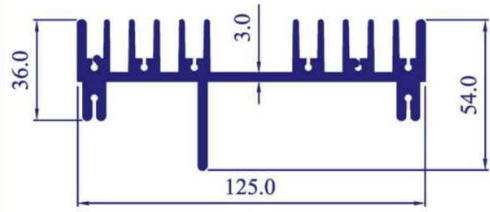
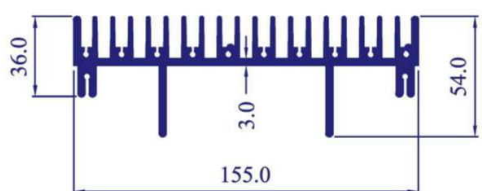
  

G-611/639	0.890KG/M			
				

ALL DIMENSIONS ARE IN MM





					<b>G-614</b> <span style="float: right;"><u>0.305KG/M.</u></span>	
SEC. NO	A	B	C	Kg/M.		
G-617	18.00	7.00	1.30	0.109		
G-616	19.00	7.50	1.70	0.141		
G-615	19.00	7.50	1.90	0.149		
G-612	19.00	7.50	2.50	0.182		
G-613	20.00	8.20	3.20	0.261		
<b>G-619</b> <span style="float: right;"><u>1.870KG/M.</u></span>					<b>G-621</b> <span style="float: right;"><u>0.106KG/M.</u></span>	
					<b>G-661</b> <span style="float: right;"><u>0.095KG/M.</u></span>	
						
						
<b>G-651</b> <span style="float: right;"><u>0.165KG/M.</u></span> (*EX.)					<b>G-652</b> <span style="float: right;"><u>0.287KG/M.</u></span> (*EX.)	
						
<b>G-618</b> <span style="float: right;"><u>3.380KG/M.</u></span>					<b>G-622</b> <span style="float: right;"><u>4.220KG/M.</u></span>	
						

ALL DIMENSIONS ARE IN MM

<p><u>G-623</u> <span style="float: right;"><u>1.044KG/M</u></span></p>	<p><u>G-624</u> <span style="float: right;"><u>0.415KG/M</u></span></p>
<p><u>G-625/677</u> <span style="float: right;"><u>0.648KG/M</u></span></p>	<p><u>G-626</u> <span style="float: right;"><u>0.402KG/M</u></span></p>
<p><u>G-754</u> (*EX.) <span style="float: right;"><u>1.068KG/M</u></span></p>	<p><u>G-627/676 &amp; 738</u> <span style="float: right;"><u>0.200KG/M</u></span></p>
<p><u>G-628</u> <span style="float: right;"><u>1.086KG/M</u></span></p>	<p><u>G-629</u> (*EX.) <span style="float: right;"><u>1.210KG/M</u></span></p>

ALL DIMENSIONS ARE IN MM



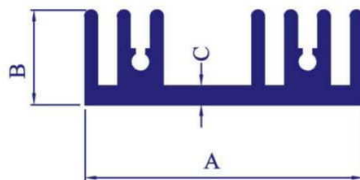
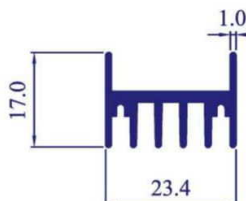
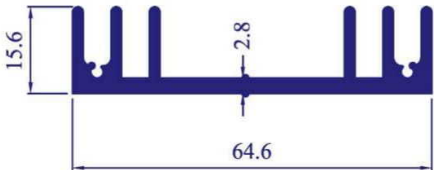
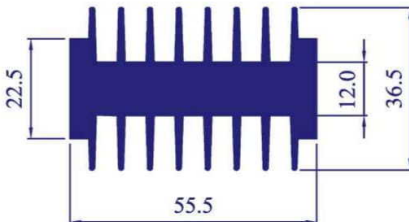
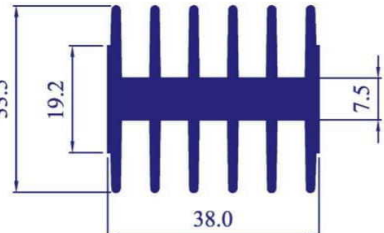
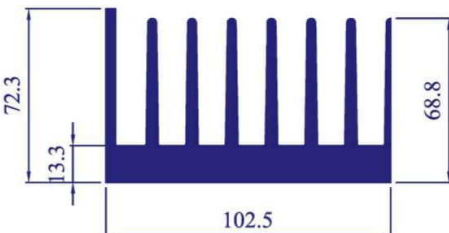
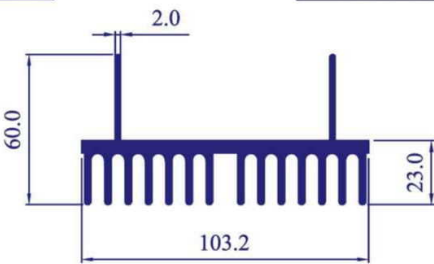
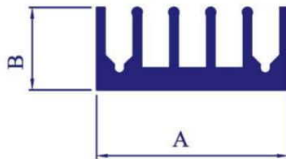
<p><b>G-631</b> <span style="float: right;"><u>0.450KG/M</u></span></p>		<p><b>G-632</b> <span style="float: right;"><u>0.810KG/M</u></span></p>							
<p><b>G-637</b> <span style="float: right;"><u>0.600KG/M</u></span></p>		<p><b>G-638</b> <span style="float: right;"><u>0.652KG/M</u></span></p>							
SEC. NO	A	B	C	Kg/M.					
G-858	143.00	13.00	3.50	2.057					
G-859	131.00	18.00	3.50	1.970					
<p><b>(*EX.)</b></p>									
SEC. NO	A	B	C	Kg/M.	SEC. NO	A	B	C	Kg/M.
G-640	143.00	18.00	3.50	2.057	G-641	88.00	35.00	4.00	2.930
G-716	143.00	18.00	2.76	1.857	G-709	88.00	35.00	4.00	3.132
G-858	143.00	18.00	3.50	2.057					
G-646	131.00	18.00	2.50	1.733					
<p><b>G-642</b> <span style="float: right;"><u>1.647KG/M</u></span></p>		<p><b>G-643</b> <span style="float: right;"><u>5.185KG/M</u></span></p>							

ALL DIMENSIONS ARE IN MM

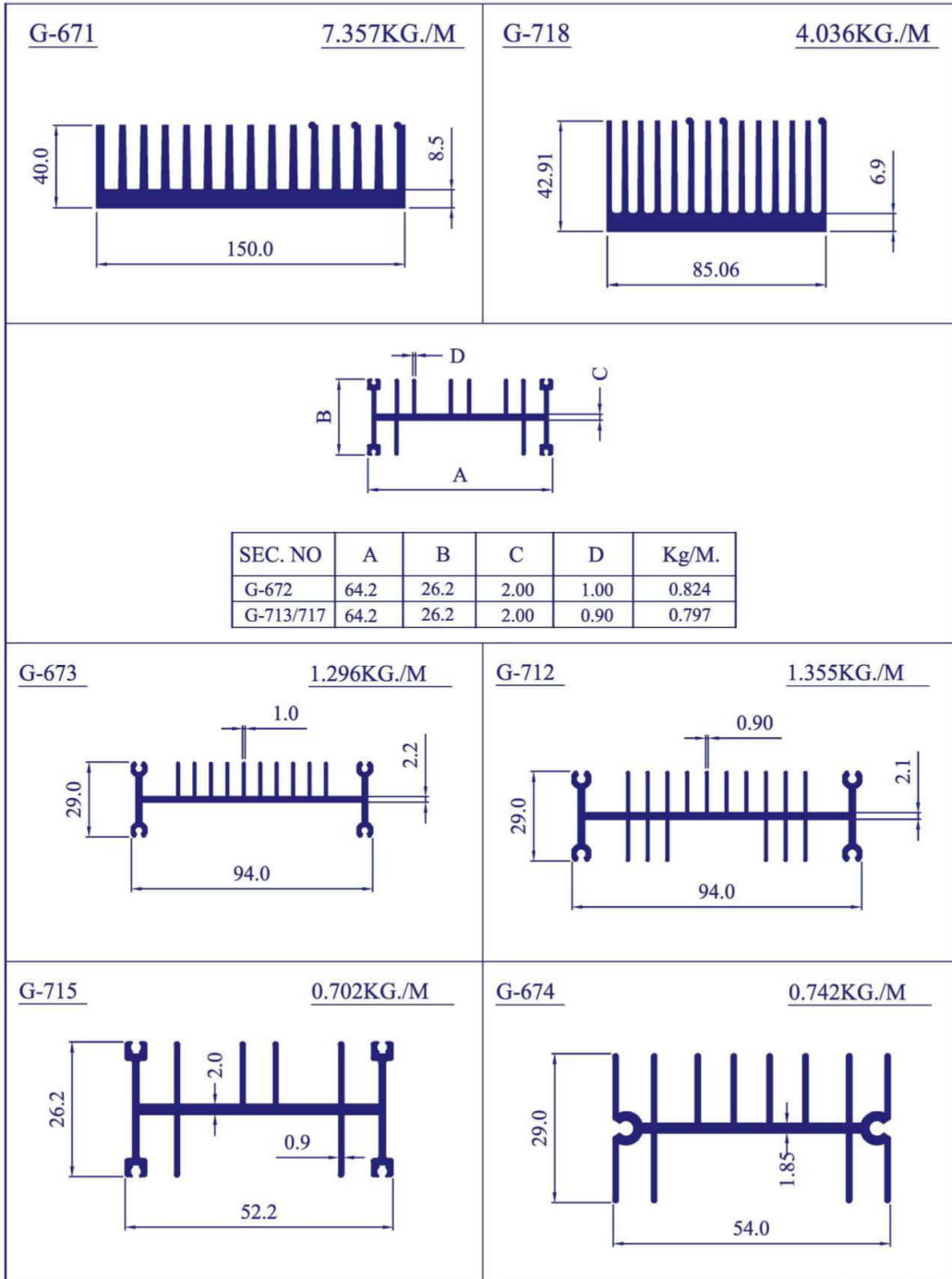


<p>G-645 <span style="float: right;">1.976KG./M</span></p>	<p>G-647 <span style="float: right;">0.639KG./M</span></p>																		
<p style="text-align: center;">G-648 <span style="float: right;">0.600KG./M</span></p>																			
<p>G-649 (*EX.) <span style="float: right;">2.235KG./M</span></p>	<p>G-650/666 <span style="float: right;">1.315KG./M</span></p>																		
<p>G-653 (*EX.) <span style="float: right;">1.026KG./M</span></p>	<p style="text-align: center;">(*EX.)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SEC. NO</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>Kg/M.</th> </tr> </thead> <tbody> <tr> <td>G-654</td> <td>61.50</td> <td>19.00</td> <td>5.00</td> <td>3.00</td> <td>0.734</td> </tr> <tr> <td>G-767</td> <td>40.00</td> <td>16.00</td> <td>5.00</td> <td>3.00</td> <td>0.538</td> </tr> </tbody> </table>	SEC. NO	A	B	C	D	Kg/M.	G-654	61.50	19.00	5.00	3.00	0.734	G-767	40.00	16.00	5.00	3.00	0.538
SEC. NO	A	B	C	D	Kg/M.														
G-654	61.50	19.00	5.00	3.00	0.734														
G-767	40.00	16.00	5.00	3.00	0.538														

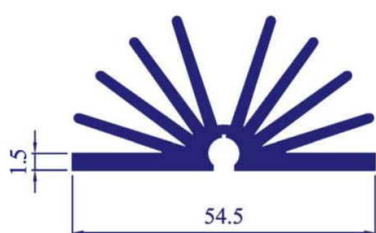
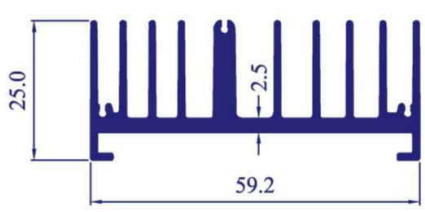
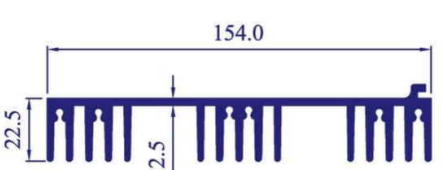
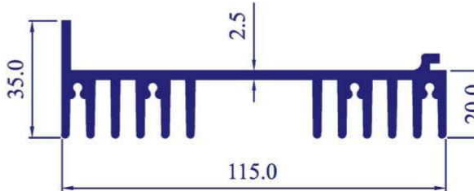
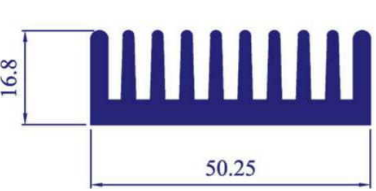
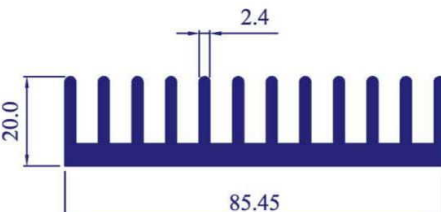
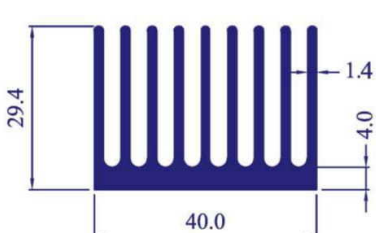
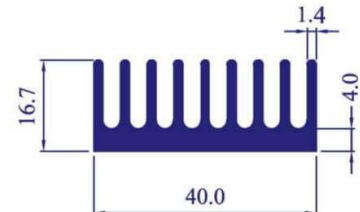
ALL DIMENSIONS ARE IN MM.

					<b>G-656</b> <span style="float: right;"><u>0.348KG/M</u></span>																
<table border="1"> <thead> <tr> <th>SEC. NO</th> <th>A</th> <th>B</th> <th>C</th> <th>Kg/M.</th> </tr> </thead> <tbody> <tr> <td>G-655</td> <td>50.00</td> <td>17.00</td> <td>3.40</td> <td>1.160</td> </tr> <tr> <td>G-667</td> <td>50.00</td> <td>17.00</td> <td>3.40</td> <td>1.174</td> </tr> </tbody> </table>					SEC. NO	A	B	C	Kg/M.	G-655	50.00	17.00	3.40	1.160	G-667	50.00	17.00	3.40	1.174		
SEC. NO	A	B	C	Kg/M.																	
G-655	50.00	17.00	3.40	1.160																	
G-667	50.00	17.00	3.40	1.174																	
<b>G-662</b> <span style="float: right;"><u>0.932KG/M</u></span>					<b>G-663</b> <span style="float: right;"><u>2.578KG/M</u></span>																
																					
<b>G-697</b> <span style="float: right;"><u>1.493KG/M</u></span>					<b>G-664</b> <span style="float: right;"><u>7.843KG/M</u></span>																
																					
<b>G-665</b> <span style="float: right;"><u>3.349KG/M</u></span>																					
					<table border="1"> <thead> <tr> <th>SEC. NO</th> <th>A</th> <th>B</th> <th>Kg/M.</th> </tr> </thead> <tbody> <tr> <td>G-669</td> <td>34.5</td> <td>14.8</td> <td>0.588</td> </tr> <tr> <td>G-687</td> <td>34.0</td> <td>15.0</td> <td>0.602</td> </tr> </tbody> </table>		SEC. NO	A	B	Kg/M.	G-669	34.5	14.8	0.588	G-687	34.0	15.0	0.602			
SEC. NO	A	B	Kg/M.																		
G-669	34.5	14.8	0.588																		
G-687	34.0	15.0	0.602																		

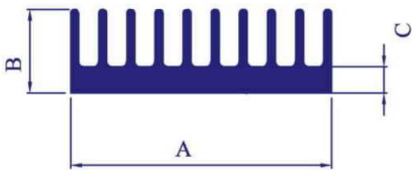
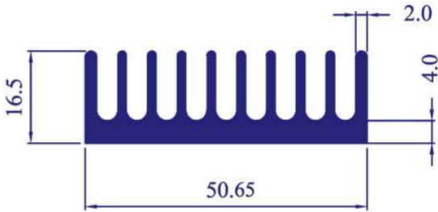
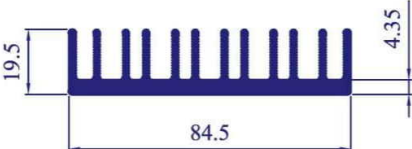
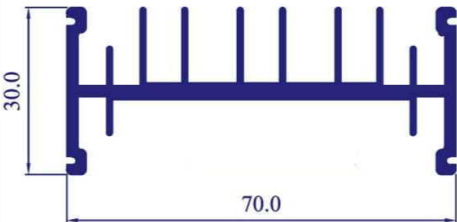
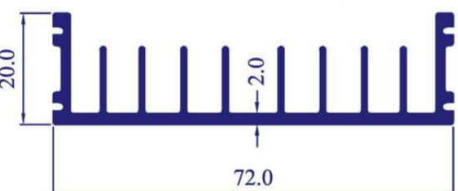
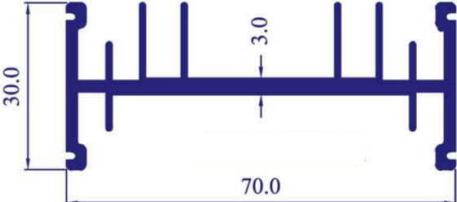
ALL DIMENSIONS ARE IN MM



ALL DIMENSIONS ARE IN MM.

<p><u>G-675</u> <span style="float: right;"><u>1.148KG./M</u></span></p> 	<p><u>G-678</u> <span style="float: right;"><u>1.121KG./M</u></span></p> 
<p><u>G-679</u> (*EX.) <span style="float: right;"><u>3.267KG./M</u></span></p> 	<p><u>G-680</u> (*EX.) <span style="float: right;"><u>2.362KG./M</u></span></p> 
<p><u>G-681</u> <span style="float: right;"><u>1.377KG./M</u></span></p> 	<p><u>G-684</u> <span style="float: right;"><u>2.263KG./M</u></span></p> 
<p><u>G-689</u> <span style="float: right;"><u>1.404KG./M</u></span></p> 	<p><u>G-690</u> <span style="float: right;"><u>0.940KG./M</u></span></p> 

ALL DIMENSIONS ARE IN MM

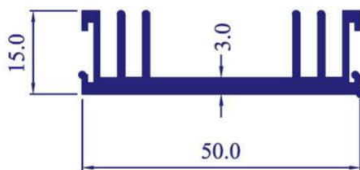
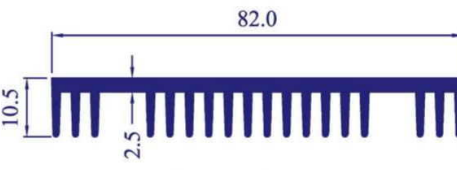
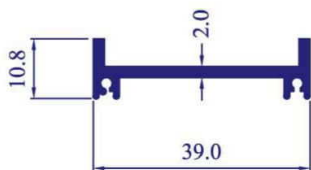
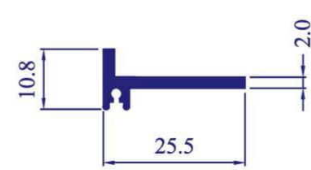
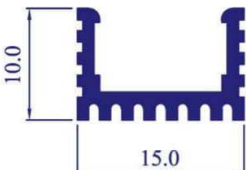
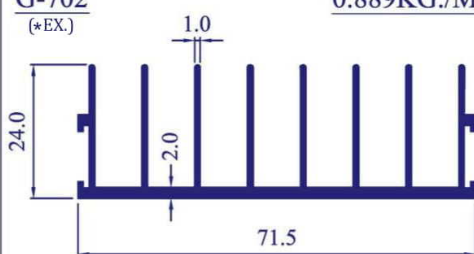
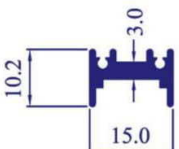
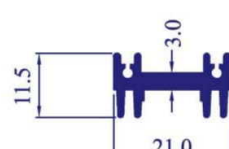
<p><u>G-720</u></p> 		<p><u>G-745</u> <u>1.080KG/M</u></p> 		
SEC. NO	A	B	C	Kg/M.
G-720	46.94	15.00	4.65	0.982
G-721	46.95	15.00	2.65	0.829
G-736	70.00	20.00	4.70	1.912
<p><u>G-756</u> <u>1.806KG/M</u></p> 		<p><u>G-682/739</u> <u>1.150KG/M</u>                  (*EX.)</p> 		
<p><u>G-683</u> <u>0.867KG/M</u>                  (*EX.)</p> 		<p><u>G-691</u> <u>1.080KG/M</u>                  (*EX.)</p> 		

ALL DIMENSIONS ARE IN MM



<p><b>G-699</b> (*EX.)</p> <p style="text-align: right;"><u>0.923KG./M</u></p>	<p><b>G-700</b> (*EX.)</p> <p style="text-align: right;"><u>0.635KG./M</u></p>
<p><b>G-703</b> (*EX.)</p> <p style="text-align: right;"><u>0.936KG./M</u></p>	<p><b>G-740</b></p> <p style="text-align: right;"><u>0.867KG./M</u></p>
<p><b>G-685</b> (*EX.)</p> <p style="text-align: right;"><u>0.812KG./M</u></p>	<p><b>G-686</b> (*EX.)</p> <p style="text-align: right;"><u>0.402KG./M</u></p>
<p><b>G-688</b></p> <p style="text-align: right;"><u>0.886KG./M</u></p>	<p><b>G-694/749</b> (*EX.)</p> <p style="text-align: right;"><u>0.740KG./M</u></p>

ALL DIMENSIONS ARE IN MM

<p><b>G-695</b> (*EX.)</p> <p><u>0.656KG./M</u></p> 	<p><b>G-692/737</b> (*EX.)</p> <p><u>1.026KG./M</u></p> 
<p><b>G-693/748</b> (*EX.)</p> <p><u>0.321KG./M</u></p> 	<p><b>G-696</b> (*EX.)</p> <p><u>0.199KG./M</u></p> 
<p><b>G-701</b> (*EX.)</p> <p><u>0.140KG./M</u></p> 	<p><b>G-702</b> (*EX.)</p> <p><u>0.889KG./M</u></p> 
<p><b>G-704</b> (*EX.)</p> <p><u>0.175KG./M</u></p> 	<p><b>G-705</b> (*EX.)</p> <p><u>0.291KG./M</u></p> 

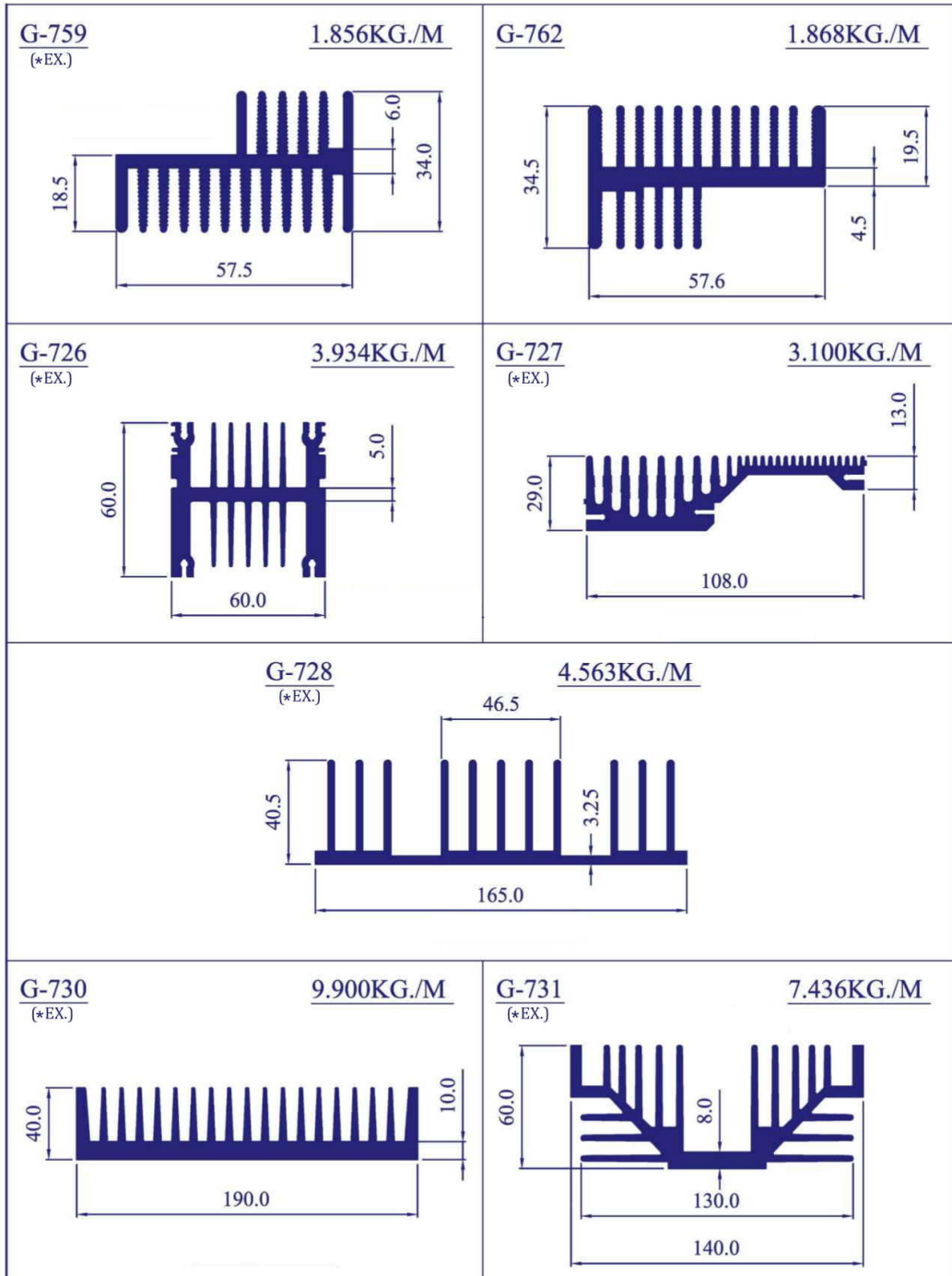
ALL DIMENSIONS ARE IN MM

<p><u>G-750</u> (*EX.)</p> <p><u>0.175KG./M</u></p>	<p><u>G-706</u> (*EX.)</p> <p><u>0.567KG./M</u></p>
<p><u>G-707</u> (*EX.)</p> <p><u>0.790KG./M</u></p>	<p><u>G-708</u> (*EX.)</p> <p><u>0.220KG./M</u></p>
<p><u>G-710</u> (*EX.)</p> <p><u>0.344KG./M</u></p>	<p><u>G-711</u> (*EX.)</p> <p><u>0.515KG./M</u></p>
<p><u>G-712</u></p> <p><u>1.355KG./M</u></p>	<p><u>G-714</u> (*EX.)</p> <p><u>0.281KG./M</u></p>

ALL DIMENSIONS ARE IN MM

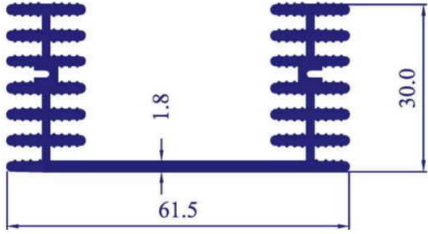
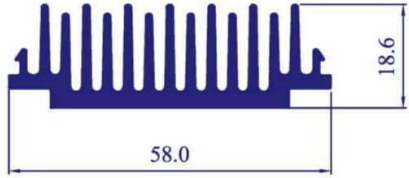
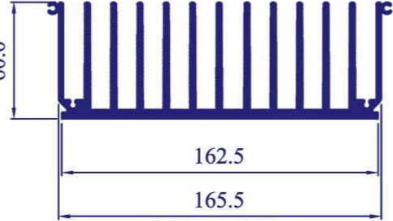
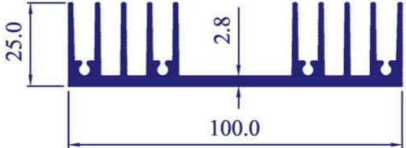
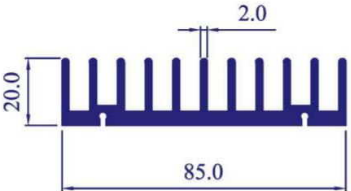
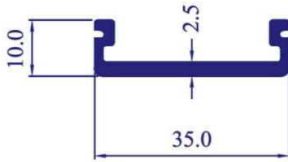
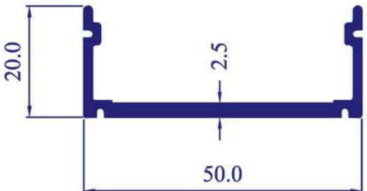
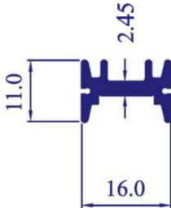
<p><u>G-729</u> (*EX.)</p> <p><u>0.222KG./M</u></p>	<p><u>G-722</u></p> <p><u>3.024KG./M</u></p>
<p><u>G-724</u></p> <p><u>1.927KG./M</u></p>	<p><u>G-734</u></p> <p><u>2.713KG./M</u></p>
<p><u>G-746</u></p> <p><u>1.741KG./M</u></p>	<p><u>G-752</u></p> <p><u>1.884KG./M</u></p>
<p><u>G-753</u></p> <p><u>1.695KG./M</u></p>	<p><u>G-758</u></p> <p><u>1.572KG./M</u></p>

ALL DIMENSIONS ARE IN MM



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<p><b>G-732</b> (*EX.)</p> <p>1.242KG./M.</p> 	<p><b>G-733</b> (*EX.)</p> <p>1.295KG./M.</p> 
<p><b>G-735</b> (*EX.)</p> <p>8.280KG./M.</p> 	<p><b>G-741</b> (*EX.)</p> <p>1.715KG./M.</p> 
<p><b>G-742</b> (*EX.)</p> <p>1.855KG./M.</p> 	<p><b>G-743</b> (*EX.)</p> <p>0.337KG./M.</p> 
<p><b>G-744</b></p> <p>0.500KG./M</p> 	<p><b>G-747</b></p> <p>0.195KG./M</p> 

ALL DIMENSIONS ARE IN MM



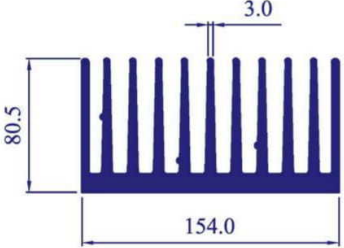
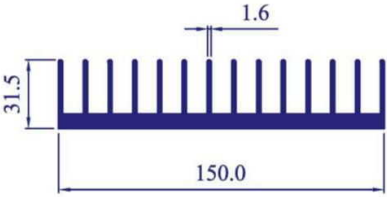
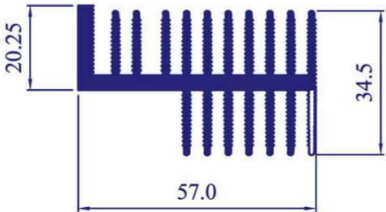
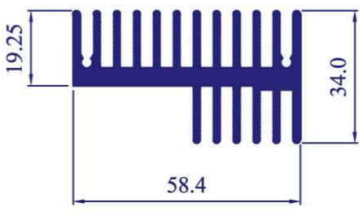
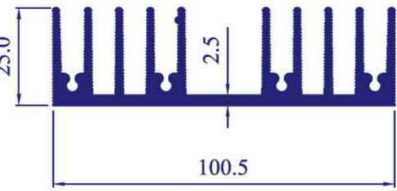
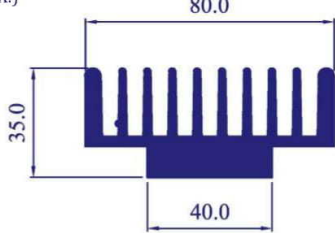
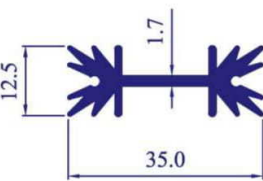
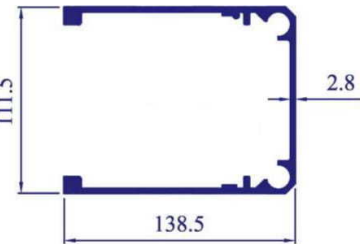
<p><u>G-757</u> <span style="float: right;"><u>0.578KG./M</u></span></p>	<p><u>G-761</u> <span style="float: right;"><u>0.650KG./M</u></span></p>
<p><u>G-760</u> <span style="float: right;"><u>4.953KG./M</u></span></p>	<p><u>G-763</u> <span style="float: right;"><u>5.052KG./M</u></span></p>
<p><u>G-764</u> <span style="float: right;"><u>0.990KG./M</u></span></p>	<p><u>G-765</u> <span style="float: right;"><u>0.542KG./M</u></span></p>
<p><u>G-766</u> <span style="float: right;"><u>4.248KG./M</u></span></p>	<p><u>G-768</u> <span style="float: right;"><u>0.331KG./M</u></span>                  (*EX.)</p>

ALL DIMENSIONS ARE IN MM

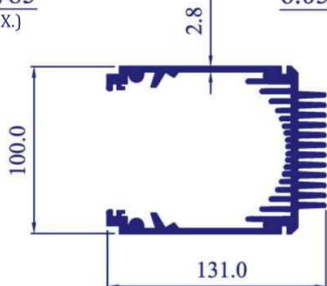
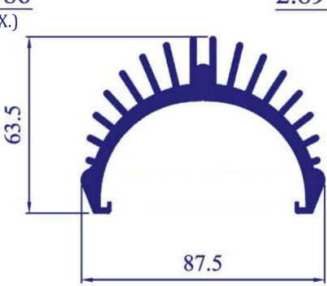
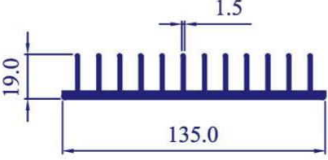
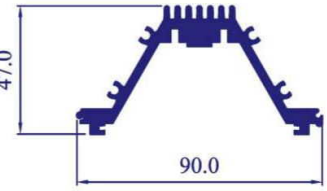
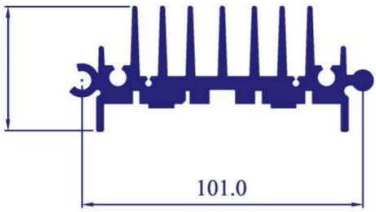
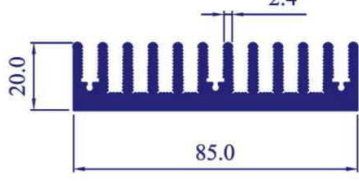
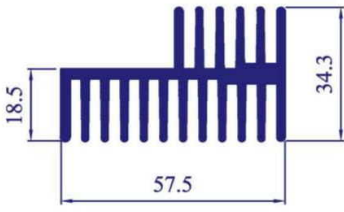
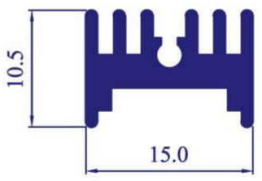
<p><u>G-769</u> <span style="float: right;"><u>1.358KG./M</u></span></p>	<p><u>G-770</u> <span style="float: right;"><u>15.987KG./M</u></span></p>
<p><u>G-771</u> <span style="float: right;"><u>1.115KG./M</u></span></p>	<p><u>G-772</u> <span style="float: right;"><u>16.500KG./M</u></span></p>
<p><u>G-773</u> <span style="float: right;"><u>1.890KG./M</u></span></p>	<p><u>G-774</u> <span style="float: right;"><u>10.400KG./M</u></span></p>
<p><u>G-775</u> <span style="float: right;"><u>0.314KG./M</u></span></p>	<p><u>G-776</u> <span style="float: right;"><u>1.686KG./M</u></span></p>

ALL DIMENSIONS ARE IN MM



<p><u>G-777</u> <span style="float: right;"><u>13.357KG./M</u></span></p> 	<p><u>G-778</u> <span style="float: right;"><u>4.100KG./M</u></span>                      (*EX.)</p> 
<p><u>G-779</u> <span style="float: right;"><u>1.719KG./M</u></span></p> 	<p><u>G-780</u> <span style="float: right;"><u>1.746KG./M</u></span></p> 
<p><u>G-781</u> <span style="float: right;"><u>1.785KG./M</u></span>                      (*EX.)</p> 	<p><u>G-782</u> <span style="float: right;"><u>3.306KG./M</u></span>                      (*EX.)</p> 
<p><u>G-783</u> <span style="float: right;"><u>0.410KG./M</u></span></p> 	<p><u>G-784</u> <span style="float: right;"><u>3.560KG./M</u></span>                      (*EX.)</p> 

ALL DIMENSIONS ARE IN MM

<p><u>G-785</u> (*EX.)</p> <p>6.053KG./M</p> 	<p><u>G-786</u> (*EX.)</p> <p>2.897KG./M</p> 
<p><u>G-787</u> (*EX.)</p> <p>2.176KG./M</p> 	<p><u>G-788</u></p> <p>1.761KG./M</p> 
<p><u>G-789</u></p> <p>3.186KG./M</p> 	<p><u>G-790</u></p> <p>2.206KG./M</p> 
<p><u>G-791</u></p> <p>1.707KG./M</p> 	<p><u>G-792</u></p> <p>0.218KG./M</p> 

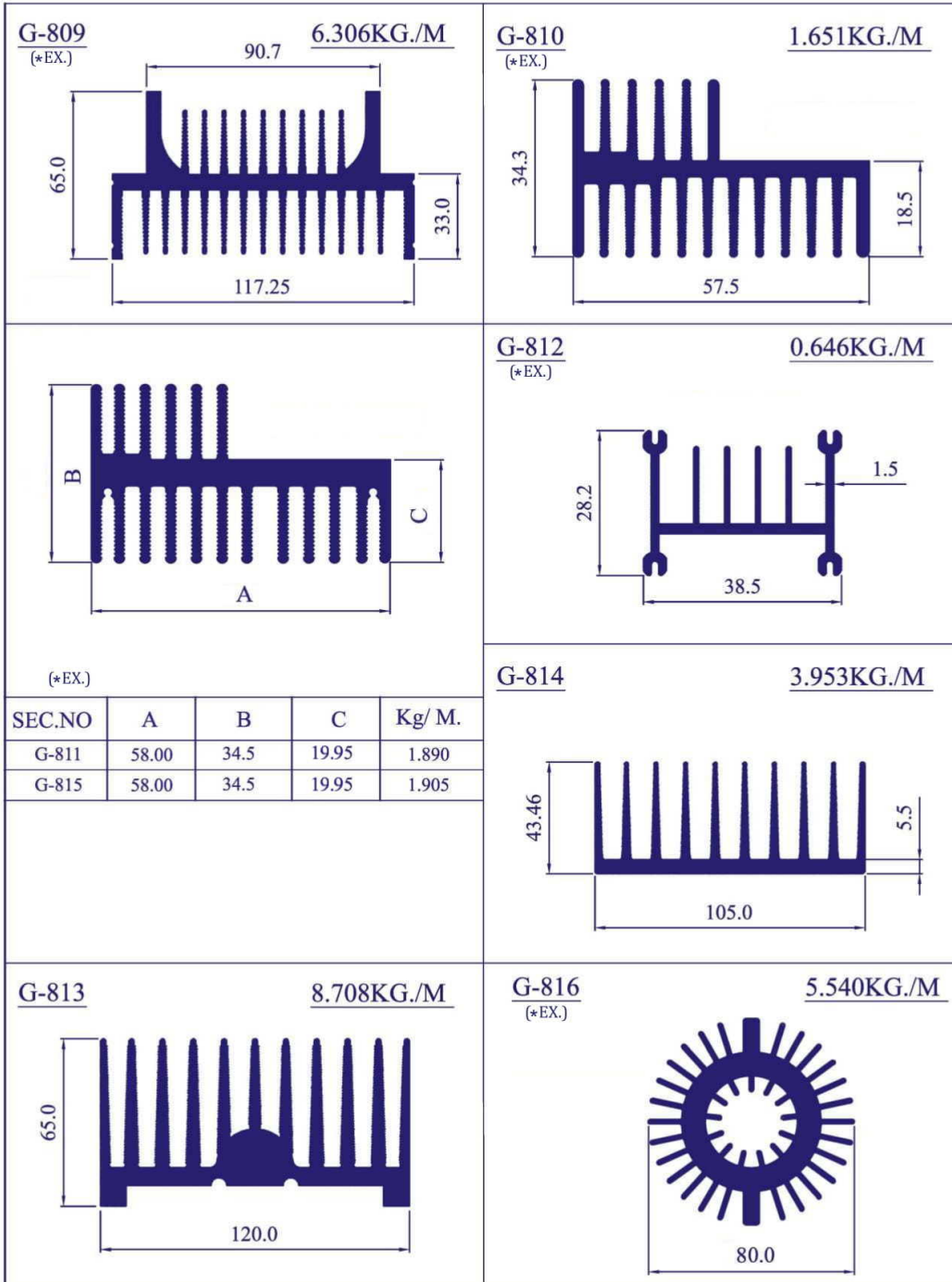
ALL DIMENSIONS ARE IN MM

<p><b>G-793</b> <span style="float: right;"><u>2.056KG./M</u></span></p>	<p><b>G-794</b> <span style="float: right;"><u>5.163KG./M</u></span>                  (*EX.)</p>
<p><b>G-795</b> <span style="float: right;"><u>1.134KG./M</u></span>                  (*EX.)</p>	<p><b>G-796</b> <span style="float: right;"><u>0.689KG./M</u></span>                  (*EX.)</p>
<p><b>G-797</b> <span style="float: right;"><u>0.224KG./M</u></span>                  (*EX.)</p>	<p><b>G-798</b> <span style="float: right;"><u>1.262KG./M</u></span>                  (*EX.)</p>
<p><b>G-799</b> <span style="float: right;"><u>0.208KG./M</u></span>                  (*EX.)</p>	<p><b>G-800</b> <span style="float: right;"><u>1.223KG./M</u></span>                  (*EX.)</p>

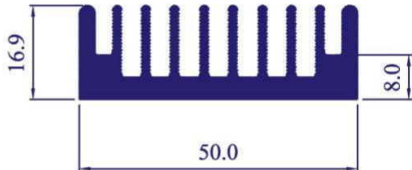
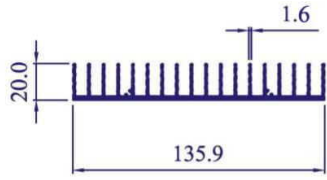
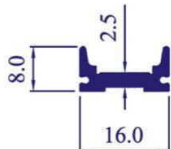
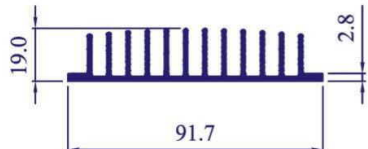
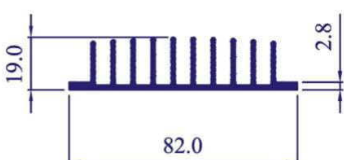
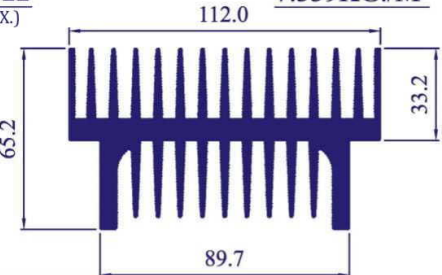
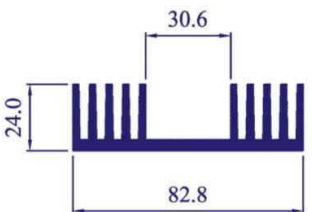
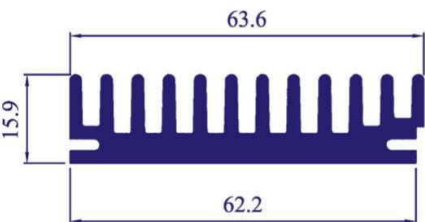
ALL DIMENSIONS ARE IN MM

<p><b>G-801</b> (*EX.)</p> <p><b>0.646KG./M</b></p>	<p><b>G-802</b> (*EX.)</p> <p><b>0.348KG./M</b></p>
<p><b>G-803</b> (*EX.)</p> <p><b>1.150KG./M</b></p>	<p><b>G-804</b> (*EX.)</p> <p><b>4.800KG./M</b></p>
<p><b>G-806</b> <b>1.232KG./M</b></p>	
<p><b>G-807</b></p> <p><b>1.932KG./M</b></p>	<p><b>G-808</b></p> <p><b>1.986KG./M</b></p>

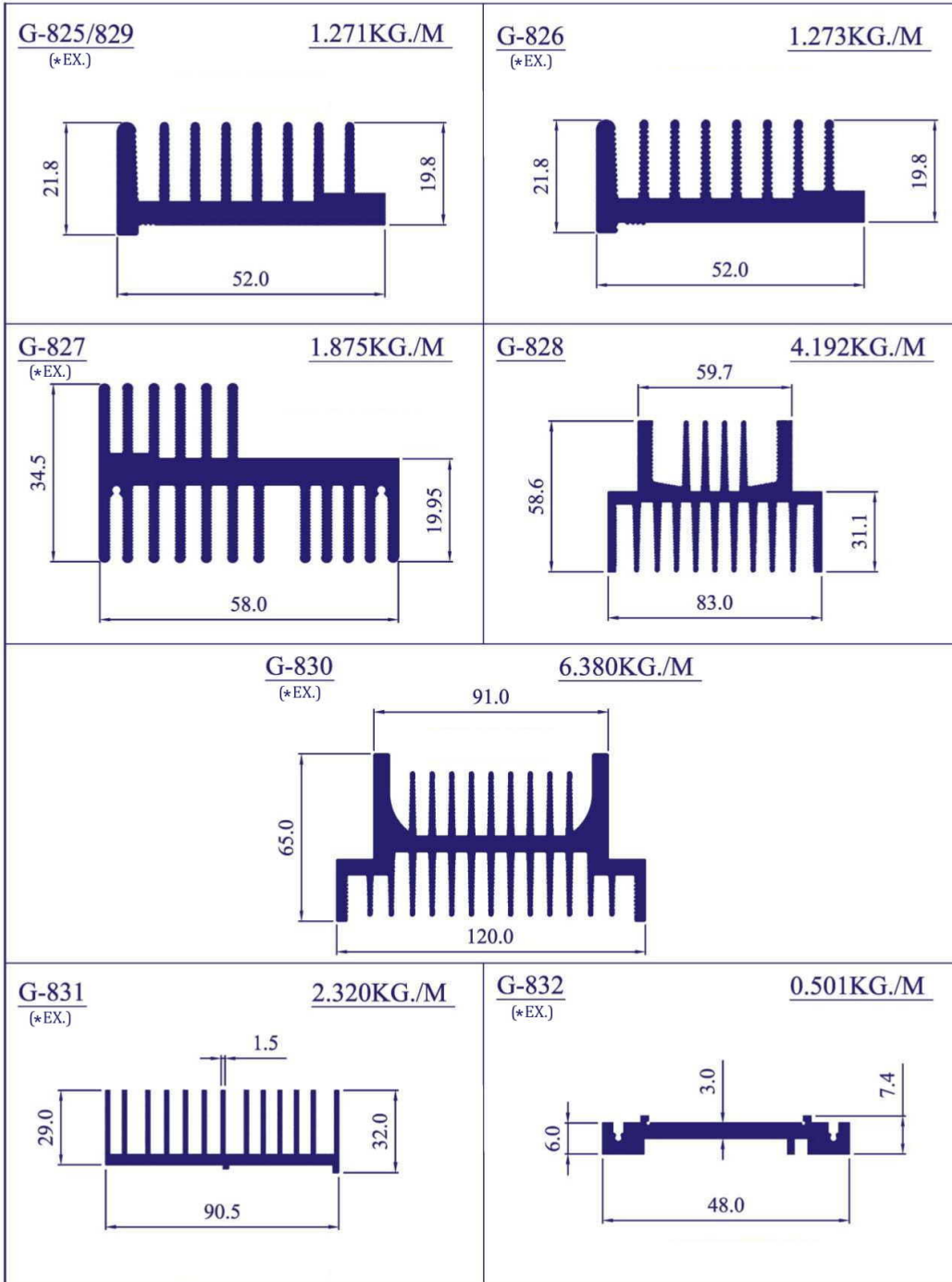
ALL DIMENSIONS ARE IN MM



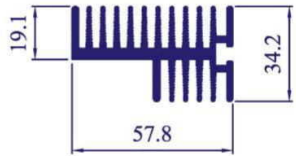
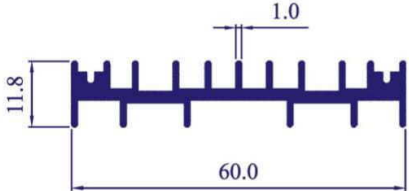
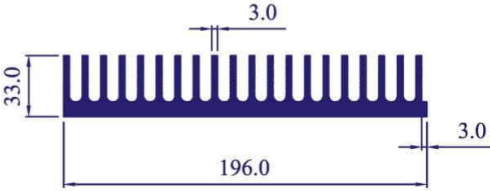
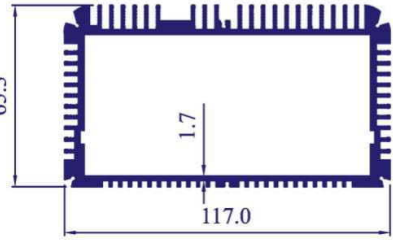

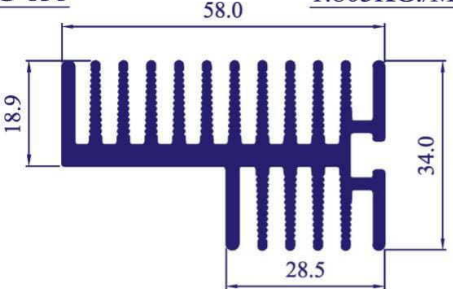
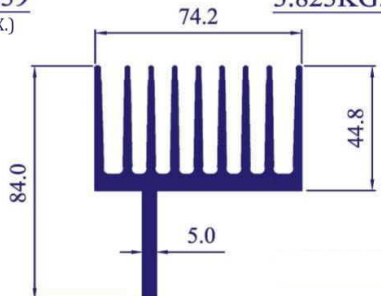
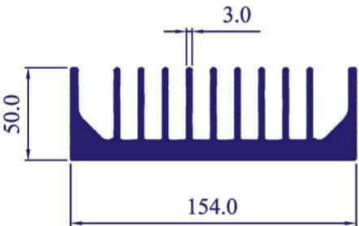
ALL DIMENSIONS ARE IN MM

<p><b>G-817</b> (*EX.)</p> <p style="text-align: right;"><u>1.185KG./M</u></p> 	<p><b>G-818</b> (*EX.)</p> <p style="text-align: right;"><u>1.991KG./M</u></p> 
<p><b>G-819</b> (*EX.)</p> <p style="text-align: right;"><u>0.157KG./M</u></p> 	<p><b>G-820</b> (*EX.)</p> <p style="text-align: right;"><u>1.259KG./M</u></p> 
<p><b>G-821</b> (*EX.)</p> <p style="text-align: right;"><u>1.082KG./M</u></p> 	<p><b>G-822</b> (*EX.)</p> <p style="text-align: right;"><u>7.339KG./M</u></p> 
<p><b>G-823</b></p> <p style="text-align: right;"><u>2.201KG./M</u></p> 	<p><b>G-824</b></p> <p style="text-align: right;"><u>1.601KG./M</u></p> 

ALL DIMENSIONS ARE IN MM



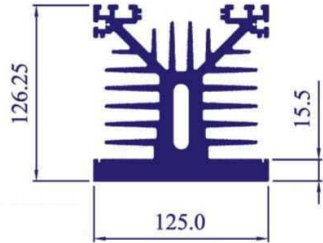
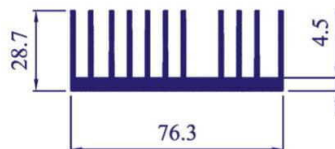
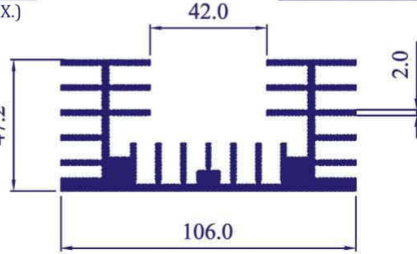
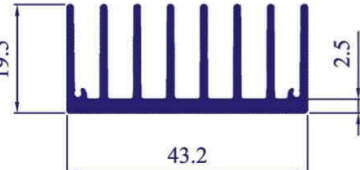
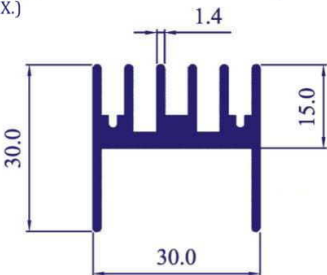
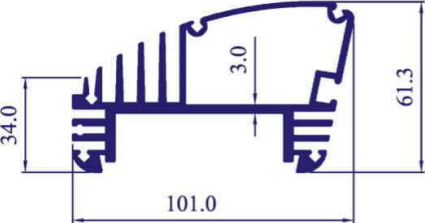
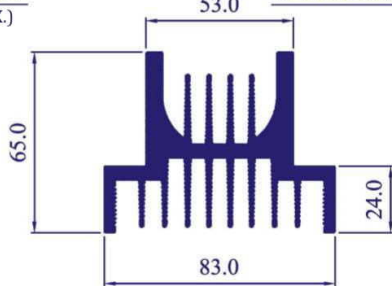
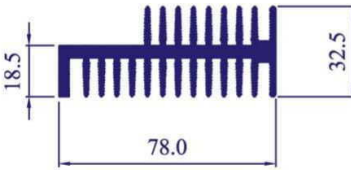
ALL DIMENSIONS ARE IN MM

<p><b>G-833</b> (*EX.)</p> <p><u>1.820KG./M</u></p> 	<p><b>G-834</b> (*EX.)</p> <p><u>0.619KG./M</u></p> 
<p><b>G-835</b> (*EX.)</p> <p><u>8.553KG./M</u></p> 	<p><b>G-836</b></p> <p><u>3.290KG./M</u></p> 
<p><b>G-837</b> (*EX.)</p> <p><u>1.879KG./M</u></p> 	<p><b>G-838</b></p> <p><u>1.803KG./M</u></p> 
<p><b>G-839</b> (*EX.)</p> <p><u>3.823KG./M</u></p> 	<p><b>G-840</b></p> <p><u>8.467KG./M</u></p> 

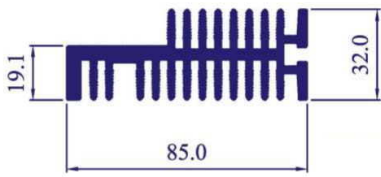
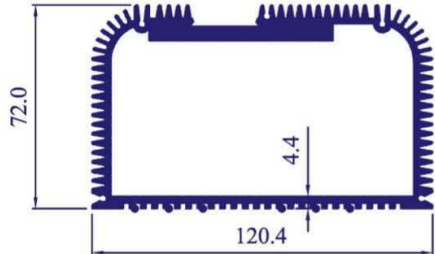
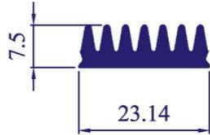
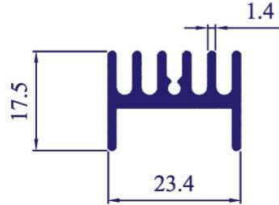
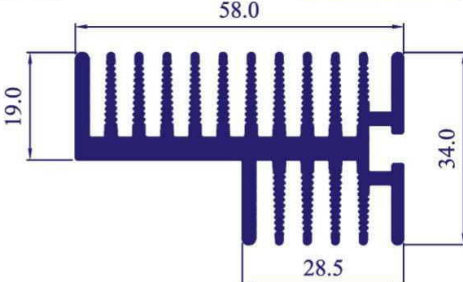
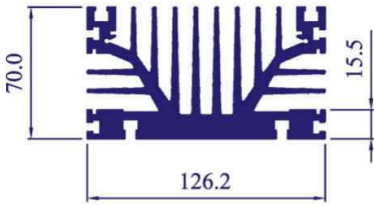
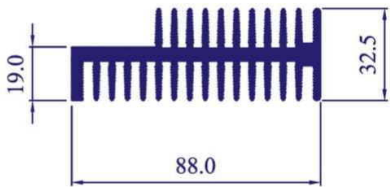
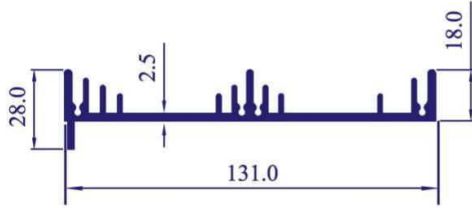
ALL DIMENSIONS ARE IN MM





<p><b>G-841</b> (*EX.)</p> <p>16.132KG./M</p> 	<p><b>G-842</b> (*EX.)</p> <p>2.005KG./M</p> 
<p><b>G-843</b> (*EX.)</p> <p>3.546KG./M</p> 	<p><b>G-844</b> (*EX.)</p> <p>0.738KG./M</p> 
<p><b>G-845</b> (*EX.)</p> <p>0.699KG./M</p> 	<p><b>G-846</b></p> <p>2.777KG./M</p> 
<p><b>G-847</b> (*EX.)</p> <p>4.416KG./M</p> 	<p><b>G-848</b> (*EX.)</p> <p>2.587KG./M</p> 

ALL DIMENSIONS ARE IN MM

<p><b>G-849</b> (*EX.)</p> <p>3.121KG./M</p> 	<p><b>G-850</b> (*EX.)</p> <p>4.426KG./M</p> 
<p><b>G-851</b></p> <p>0.314KG./M</p> 	<p><b>G-852</b> (*EX.)</p> <p>0.388KG./M</p> 
<p><b>G-853</b></p> <p>1.805KG./M</p> 	<p><b>G-854</b> (*EX.)</p> <p>9.876KG./M</p> 
<p><b>G-855</b> (*EX.)</p> <p>3.045KG./M</p> 	<p><b>G-856</b> (*EX.)</p> <p>1.597KG./M</p> 

ALL DIMENSIONS ARE IN MM

### **CORPORATE OFFICE**

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Tel.: 01493-220764 / 220870 / 220868 / 220924 / 306500

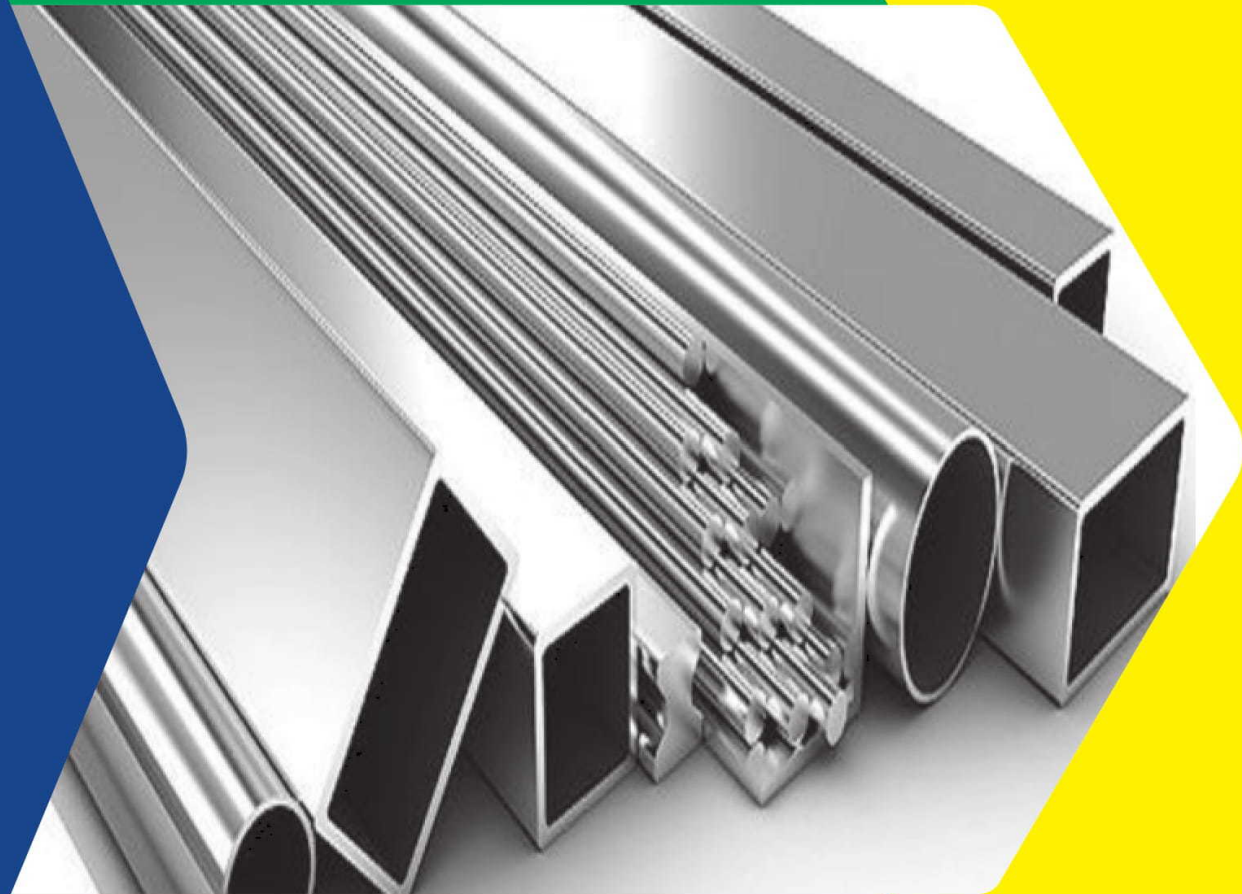


**For Marketing Enquiry Contact Corporate Office**



# INDO ALUSYS INDUSTRIES LIMITED

(Formerly Mahavir Aluminium Limited)  
Superior Technology Superior Solutions



## ALUMINIUM GEOMETRICAL PROFILES CATALOGUE

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## COMPANY PROFILE



M/S Indo Alusys Industries Ltd. (IAL) is formerly M/S Mahavir Aluminium Ltd. IAL's story is one of innovation, dedication and diversification in a short span of time since our inception in 1982 on our former name. We have already established ourselves as leading manufacturer of Aluminium Extruded Products / Profiles in India. Besides being a pace setter for the industry, we have acquired an able track record of rendering satisfactory services to our valuable customers in India and globally.

### LOCATION

IAL plant is located 70 kms. from the capital of India, New Delhi in the highly developed Industrial Area of Bhiwadi in the Alwar district of Rajasthan and it's head office at Connaught Place, New Delhi.

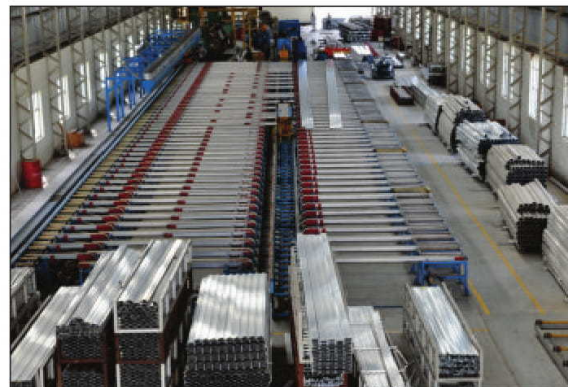
### MACHINERY

IAL has four numbers of Hydraulic Extrusion Presses of 2100 US tonnes, 1650 US tonnes, 1250 US tonnes and 1100 US tonnes capacity. The operations are controlled by Micro-processor based technology and programmable logic control (PLC) system for the above extrusion presses. Furnaces are equipped with fuel efficient regulative burners.

### TECHNOLOGY

The Plant has a most modern Foundry to cast high quality Aluminium alloy billets applying hot top casting process. The alloy composition of the billets are controlled by computerized

spectrometer at the stage of melting and subsequent casting. The plant also have sophisticated extrusion handling systems / equipments which includes an Automatic Extrusion Puller and other related equipments like Lift-off Arm, Walking Beam, Storage / Transfer Conveyer, Saw Conveyer etc. to avoid manual handling to produce scratch free material suitable for subsequent treatments like Anodizing, Electro Coloring and Powder Coating.





### QUALITY

IAIL believes that quality is not checked but an inbuilt process of quality assurance. Quality control measures are applied at every stage of operation during production to ensure "ZERO DEFECT."

Very strict and close control of raw material Aluminium and its alloys is achieved by analyzing and controlling chemical composition through a computerized spectrometer.

Extrusion dies which form the heart of an extrusion process are manufactured in house by computerized CNC Milling and Wire Cut machine and Spark-Erosion-cum-Electrical Discharge machines and subsequently polished through super finish polishing machine to achieve a very high degree of dimensional accuracy, close tolerances and smooth surface finish for its extruded profiles and sections. IAIL offers wide range of extruded profiles for all major end use segments and have approximately, 10,000 dies to cater to high quality extrusion requirements in various industry sectors.

### ANODIZING

IAIL has its in-house facilities for Anodizing and Electro Coloring having Sophisticated Technology acquired from Italy. Anodizing and Electro Coloring is an electro chemical process which gives an anodic thickness of the desired microns as per

the requirement by making available natural (Mat/Satin), very light bronze, medium bronze, dark bronze and black shades. Besides these colours IAIL have processes for various other colours to suit the requirement of its customers with upto 30 microns and length upto 6.2 meters.

### POWDER COATING

IAIL have Powder Coating facility which is the ultimate and latest in Architectural field. Powder Coating of polyester, or epoxy powder paints are excellent in their quality, which contains 100 percent solid material without non-essential or Superfluous components being applied to the objects by one of the well known methods of Electrostatic Charging. Subsequently treated for polymerisation of electrostatically charged powder to form a hard and uniform film length upto 6.2 meters.

### DISTINCTIVE ADVANTAGE

IAIL can supply the material in various colour shades with coating of 60 to 80 microns or more as per requirements of its customers.

- Stable, rich and uniform colour surface.
- Excellent durability after special electro chemical treatment.
- Anti Corrosion and weathering of coloured surface against air pollution, sunrays and humidity.
- No discoloration by ultra-violet rays.



- More than 60 percent of the Aluminium products in the world are produced by this process. This process is acknowledged as better and more economical than any other process.

### MINIMUM ORDER

A minimum quantity of 300 kg in one specification is acceptable in case of sections included in this catalogue. In case of enquiry for a new section, a minimum quantity of 500 kg is acceptable. By "specification" we mean section No., Cut length, alloy and temper, packing etc.

### LENGTH

Extrusions will be supplied in Standard Length of 3.66 meter and/or more or as per requirements.

### WEIGHT

The weight per meter length given in this catalogue is the nominal weight and should be treated as an indication. Actual Weight may vary  $\pm$  10% of the catalogue weight.

### DIMENSIONS & TOLERANCES

Sections will be supplied in our standard dimensional tolerances as per BS 1474 : 1987 or as per customer's requirement, ( IS, EN or ASTM) . Although the dimensions have been indicated in MM in the catalogue, to ensure that the correct section is ordered, the full dimensions and tolerances should be confirmed.

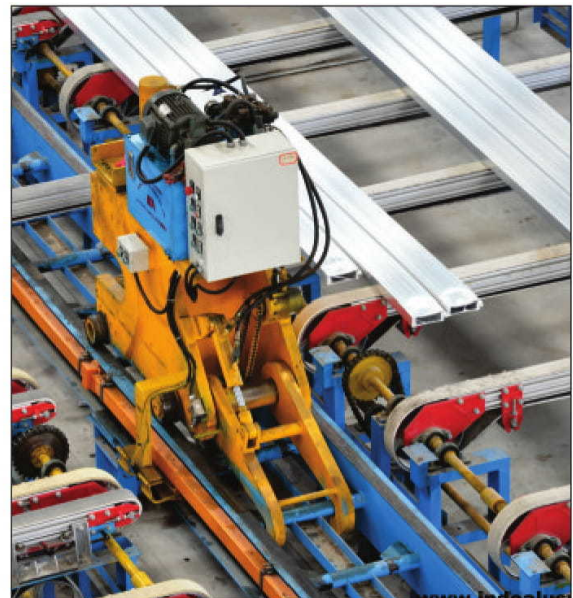
### SHIPPING TOLERANCES

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

### HOW TO ORDER

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

- Section No.
- Alloy & Temper
- Cut Length (in mm)
- Quantity (in kg)
- Surface finish and exposed surface
- End-use
- Mode of packing
- Conductivity, if required





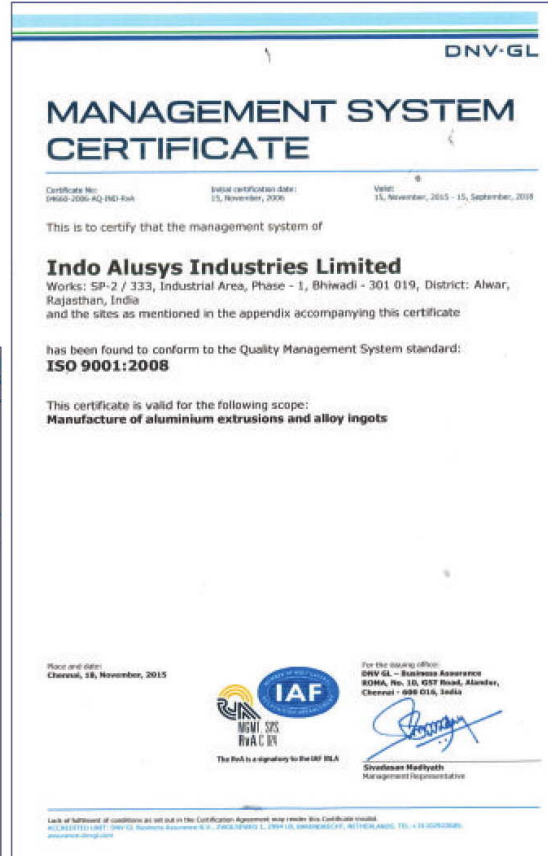
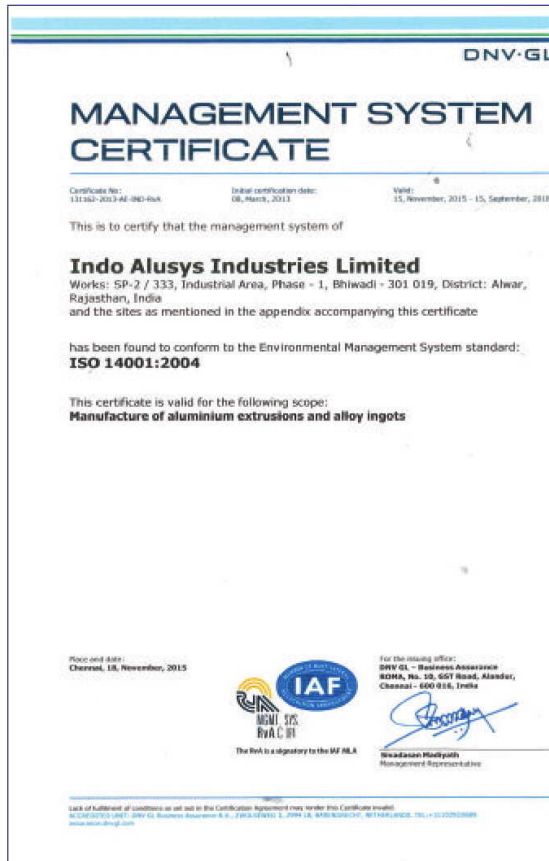


# COMPANY PROFILE



## ISO CERTIFICATION

IALIL has the distinction of being the extrusion Company to have ISO 9001:2008 & ISO 14001:2004 Certification from world renowned certifying Agency DET NORSKE VERITAS (DNV) of NETHERLAND.







**INDO ALUSYS INDUSTRIES LIMITED**

(Formerly Mahavir Aluminium Limited)

Superior Technology Superior Solutions

# Aluminium **Bars**



## Flat Bar



Sec. No.	A	B	KG./M
A-119	6.00	3.00	0.049
A-324	10.0	2.00	0.054
A-275	11.50	1.40	0.043
A-183	12.00	2.70	0.088
A-273	12.55	4.37	0.148
A-231	12.70	3.18	0.109
A-228	12.70	6.40	0.219
A-396	13.75	7.0	0.260
A-376	14.00	7.50	0.284
A-325	15.00	2.00	0.081
A-241	15.00	2.70	0.109
A-368	15.00	3.00	0.122
A-245	15.00	7.50	0.303
A-246	15.00	8.50	0.344
A-265	15.50	9.00	0.376
A-264	15.50	19.0	0.795
A-238	15.88	9.53	0.408
A-230	15.90	6.40	0.275
A-242	16.00	3.00	0.129
A-272	16.00	5.00	0.216
A-262	16.80	3.70	0.168
A-133	17.00	10.00	0.459
A-109	18.00	1.50	0.073
A-106	18.00	1.90	0.092
A-274	18.00	2.00	0.097
A-107	18.00	2.50	0.121
A-269	18.00	4.00	0.195
A-243	18.50	9.00	0.450
A-116	19.00	2.70	0.138
A-143	19.00	3.00	0.155
A-363	19.00	6.00	0.308
A-352	19.00	10.00	0.513
A-369	19.00	10.00	0.513
A-248	19.05	5.00	0.257

Sec. No.	A	B	KG./M
A-118	19.05	6.35	0.327
A-108	19.05	3.18	0.163
A-149	19.05	12.70	0.653
A-248	19.05	5.00	0.257
A-118	19.05	6.35	0.327
A-252	19.10	3.65	0.188
A-347	19.10	12.70	0.655
A-244	19.20	4.00	0.208
A-117	20.00	1.50	0.081
A-194/198	20.00	2.00	0.108
A-210	20.00	2.50	0.135
A-134	20.00	5.00	0.270
A-330	20.00	6.00	0.324
A-331	20.00	8.00	0.432
A-365	20.00	10.00	0.540
A-199	20.00	10.60	0.572
A-126	20.60	10.60	0.590
A-129	20.90	10.90	0.615
A-401	21.00	2.80	0.159
A-115	21.00	2.05	0.116
A-121	21.00	10.00	0.567
A-128	21.80	10.80	0.636
A-122	22.00	11.00	0.654
A-350	22.50	2.70	0.164
A-132	22.50	12.00	0.729
A-127	22.70	10.70	0.655
A-105	24.00	1.65	0.107
A-323	24.50	2.30	0.152
A-184	24.70	2.70	0.180
A-197	24.80	1.85	0.124
A-338	25.00	5.00	0.338
A-139	25.00	6.00	0.405
A-202	25.00	8.00	0.540
A-348	25.00	10.00	0.675

ALL DIMENSIONS ARE IN MM



## Flat Bar



Sec. No.	A	B	KG./M
A-353	25.00	12.00	0.810
A-402	25.0	2.8	0.189
A-398	25.30	4.00	0.273
A-208	25.40	2.30	0.158
A-123	25.40	2.94	0.201
A-124	25.40	3.00	0.205
A-125	25.40	6.40	0.439
A-234	25.40	9.53	0.653
A-237	25.40	12.70	0.870
A-256	25.40	15.87	1.088
A-233	25.40	1.60	0.110
A-151	25.40	19.00	1.303
A-259	25.40	19.05	1.307
A-251	26.00	2.30	0.161
A-250	26.00	2.85	0.200
A-263	27.50	24.00	1.782
A-111	29.00	1.40	0.109
A-209	29.00	2.00	0.158
A-370	29.00	2.55	0.200
A-343	29.50	18.20	1.450
A-400	30.0	1.85	0.150
A-321	30.00	2.00	0.162
A-195	30.00	2.90	0.235
A-172/330	30.00	5.00	0.405
A-310	30.00	6.00	0.486
A-337/339	30.00	10.00	0.810
A-364	30.00	12.00	0.972
A-341	30.00	19.00	1.539
A-191	30.00	20.00	1.620
A-388	31.00	2.55	0.213
A-203	31.00	16.0	1.339
A-385	31.50	10.00	0.850
A-232/A386	31.60	1.50	0.127
A-239	31.75	3.18	0.273
A-207	31.75	2.30	0.197

Sec. No.	A	B	KG./M
A-156	31.75	6.35	0.544
A-217	31.75	9.53	0.817
A-257	31.75	12.70	1.089
A-192	31.75	19.05	1.633
A-397	31.75	2.95	0.253
A-190	31.80	2.00	0.172
A-229	31.80	2.85	0.245
A-377	32.00	25.00	2.160
A-336	33.00	11.5	1.025
A-212	34.92	9.52	0.898
A-196	35.00	2.75	0.260
A-136	35.20	4.60	0.438
A-110	38.00	2.70	0.277
A-220	38.00	6.00	0.615
A-193	38.00	12.00	1.231
A-153	38.00	19.00	1.950
A-103	38.10	1.60	0.164
A-131	38.10	3.18	0.327
A-120	38.10	4.70	0.483
A-114	38.10	6.35	0.653
A-221	38.10	9.53	0.980
A-150	38.10	12.70	1.307
A-287	38.10	25.40	2.612
A-342	39.50	16.20	1.728
A-160	40.00	3.00	0.325
A-167	40.00	4.00	0.432
A-161	40.00	5.00	0.540
A-171	40.00	6.00	0.648
A-222	40.00	10.00	1.080
A-315	40.00	10.00	1.080
A-349	40.00	12.00	1.296
A-213	40.00	15.00	1.620
A-179	40.00	20.00	2.160
A-168	45.00	6.00	0.730
A-280	45.00	32.00	3.888

ALL DIMENSIONS ARE IN MM



## Flat Bar



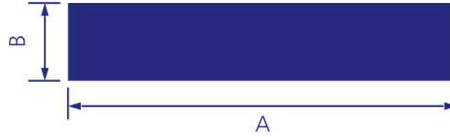
Sec. No.	A	B	KG./M
A-270	48.50	2.50	0.327
A-390	48.80	4.00	0.527
A-240	49.00	5.50	0.728
A-154	50.00	3.00	0.405
A-112/313	50.00	6.00	0.810
A-170	50.00	10.00	1.350
A-113	50.00	12.00	1.620
A-268	50.00	15.00	2.025
A-375	50.00	40.00	5.400
A-387	50.50	3.50	0.477
A-380	50.80	3.00	0.411
A-155	50.80	4.76	0.653
A-292	50.80	6.35	0.872
A-137	50.80	6.40	0.878
A-157	50.80	9.53	1.307
A-158	50.80	12.70	1.750
A-288	50.80	19.05	2.612
A-289	50.80	25.40	3.485
A-260	50.80	28.60	3.923
A-187	50.80	31.75	4.355
A-188	50.80	38.10	5.225
A-201	54.00	3.00	0.437
A-389	56.00	7.00	1.058
A-345	56.00	18.00	2.722
A-135	59.50	31.80	5.108
A-335	60.00	6.00	0.972
A-159	60.00	8.00	1.296
A-311	60.00	10.00	1.620
A-340/346	60.00	12.00	1.944
A-328	60.00	15.00	2.430
A-297	62.00	8.40	1.406
A-296	63.00	5.00	0.851
A-253	63.00	6.00	1.020
A-316	63.00	6.00	1.020

Sec. No.	A	B	KG./M
A-295	63.00	10.00	1.701
A-173	63.50	6.35	1.088
A-177	63.50	6.35	1.088
A-174	63.50	9.52	1.632
A-236	63.50	12.70	2.177
A-175	63.50	19.05	3.266
A-258	63.50	25.40	4.355
A-261	63.50	28.60	4.903
A-146	65.00	4.00	0.702
A-333	65.00	6.00	1.053
A-378	65.00	8.00	1.404
A-334	65.00	10.00	1.755
A-307	65.00	10.50	1.842
A-391	67.00	6.00	1.085
A-355	67.00	33.30	6.024
A-366	69.90	2.50	0.472
A-312	70.00	10.00	1.890
A-381	70.40	40.00	7.560
A-304	73.00	5.00	0.985
A-271	75.00	3.00	0.607
A-314	75.00	6.00	1.215
A-142	75.00	6.00	1.215
A-332	75.00	10.00	2.025
A-354	75.00	12.00	2.430
A-267	75.00	15.00	3.038
A-383	75.00	38.00	7.695
A-367	76.00	3.00	0.616
A-140	76.20	6.40	1.316
A-181	76.20	9.53	1.960
A-180	76.20	12.70	2.610
A-152	76.20	19.00	3.909
A-186	76.20	25.40	5.226
A-281	76.20	32.00	6.583
A-189	78.50	2.15	0.455

ALL DIMENSIONS ARE IN MM



## Flat Bar



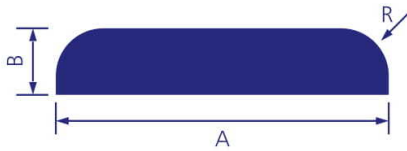
Sec. No.	A	B	KG./M
A-358	80.00	6.00	1.296
A-182	80.00	10.00	2.160
A-356	80.00	12.00	2.592
A-255	80.00	15.00	3.240
A-214	80.00	20.00	4.320
A-254	85.00	8.00	1.836
A-308	85.00	10.50	2.410
A-392	86.00	6.00	1.393
A-319	86.00	6.50	1.509
A-294	88.50	10.00	2.390
A-344	100.00	4.00	1.080
A-138	100.00	6.00	1.620
A-283	100.00	8.00	2.160
A-371	100.00	8.50	2.295
A-284	100.00	10.00	2.700
A-178	100.00	12.00	3.240
A-266	100.00	15.00	4.050
A-298	100.00	19.00	5.130
A-382	100.00	40.00	10.800
A-374	100.00	50.00	13.500
A-144	101.60	6.40	1.757
A-225	101.60	9.53	2.614
A-166	101.60	12.70	3.484
A-290	101.60	25.40	6.968
A-393	106.00	6.00	1.717
A-306	110.00	10.00	2.992
A-317	110.00	20.00	5.940
A-394	123.00	6.00	1.993
A-102	125.00	6.00	2.025
A-226	125.00	10.00	3.375
A-357	125.00	12.00	4.050
A-301	125.00	15.00	5.063
A-300	125.00	19.00	6.413

Sec. No.	A	B	KG./M
A-299	125.00	25.00	8.438
A-145	127.00	6.35	2.178
A-360	127.00	9.52	3.264
A-104	127.00	12.70	4.354
A-164	127.00	12.70	4.354
A-395	140.00	10.00	3.780
A-359	150.00	4.00	1.620
A-147	150.00	6.00	2.430
A-224	150.00	8.00	3.240
A-285	150.00	10.00	4.050
A-141	150.00	12.00	4.860
A-286	150.00	16.00	6.480
A-302	150.00	19.00	7.695
A-351	150.00	25.00	10.124
A-148	152.40	6.40	2.633
A-361	152.40	9.52	3.917
A-235	152.40	12.70	5.226
A-318	160.00	6.00	2.592
A-176	160.00	10.00	4.320
A-309	160.00	12.50	5.400
A-200	163.00	12.70	5.590
A-373	172.00	19.50	9.056
A-305	180.00	10.00	4.860
A-320	200.00	6.00	3.240
A-293	200.00	10.00	5.400
A-303	200.00	12.00	6.480
A-384	200.00	16.00	8.640
A-379	200.00	20.00	10.800
A-291	203.20	12.70	6.970

ALL DIMENSIONS ARE IN MM



**Half Round Flat**



Sec. No.	A	B	R	KG./M
A-942	25.00	2.80	2.50	0.180
A-991	25.00	3.00	3.20	0.192
A-929	25.40	2.50	2.50	0.163
A-905	25.40	3.18	1.98	0.214
A-931	25.40	3.18	3.18	0.205

**Flat Bar**



Sec. No.	A	B	R	KG./M
A-211	14.00	3.00	0.50	0.114
A-924	20.00	2.00	0.60	0.107
A-372	30.00	10.00	0.50	0.809
A-185	30.00	15.00	1.00	1.215
A-922	31.50	26.5	01.00	2.251
A-101	31.75	5.50	1.00	0.471
A-399	32.0	12.0	1.00	1.034
A-917	37.00	16.00	4.00	1.553
A-901	50.00	6.00	2.00	0.793
A-902	50.00	12.00	2.00	1.620
A-375	50.00	40.00	0.60	5.400
A-923	50.80	31.75	4.00	4.306
A-327	75.00	10.00	0.50	2.025
A-1046	100.20	16.20	5.00	4.325
A-227	120.00	10.00	0.50	3.240
A-351	150.00	25.00	0.80	10.124

**Round Edge Flat**



Sec. No.	A	B	KG./M
A-972	12.00	5.00	0.147
A-966	16.00	6.00	0.239
A-1003	19.00	3.00	0.149
A-965	20.00	6.00	0.303
A-904	25.40	6.35	0.414
A-906	30.00	6.00	0.464
A-909	40.00	6.00	0.628
A-907	50.00	6.00	0.788
A-984	50.00	25.60	3.076
A-903	50.80	6.35	0.850
A-914	58.00	26.00	3.680
A-908	60.00	6.00	0.951
A-1045	60.00	25.60	3.767
A-951	63.50	6.35	1.066
A-910	70.00	6.00	1.114
A-954	75.00	26.00	4.910
A-919	80.00	32.40	6.390
A-953	82.50	26.00	5.440

**Cooker Patti**



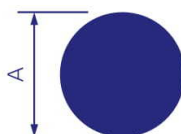
Sec. No.	A	B	R	KG./M
A-362	17.00	3.80	--	0.174
A-247	17.00	4.25	--	0.195
A-249	19.05	3.70	0.80	0.191

ALL DIMENSIONS ARE IN MM





## Round Bar



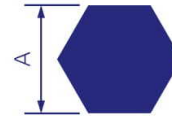
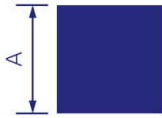
Sec. No.	A	KG./M
A-552	5.40	0.062
A-593	5.50	0.66
A-558	6.11	0.079
A-512	6.40	0.087
A-571	6.90	0.101
A-567	7.00	0.104
A-510	7.50	0.119
A-513	7.94	0.135
A-514	8.50	0.154
A-515	9.00	0.172
A-559	9.30	0.185
A-506	9.40	0.187
A-516	9.52	0.192
A-548	9.60	0.195
A-517	10.00	0.212
A-588	10.45	0.232
A-508	10.70	0.242
A-595/596	11.00	0.256
A-505	11.20	0.266
A-585	11.60	0.285
A-503	11.75	0.292
A-507	11.80	0.295
A-519	12.00	0.306
A-572	12.00	0.306
A-520	12.70	0.342
A-529	13.00	0.358
A-509	13.50	0.386
A-533	14.30	0.434
A-569	14.50	0.446
A-549	14.80	0.464
A-566	15.00	0.477
A-518/534	15.35	0.499
A-530	15.50	0.509
A-524	15.88	0.535
A-580	16.156	0.554
A-551	16.70	0.591
A-511	17.00	0.612
A-591	17.50	0.649
A-576	18.00	0.687
A-581	18.05	0.691
A-521	18.70	0.741
A-525	19.05	0.774
A-579	19.25	0.786
A-526	19.30	0.789
A-502	20.00	0.848
A-592	20.70	0.909

Sec. No.	A	KG./M
A-582	21.00	0.935
A-583	21.20	0.953
A-589	21.30	0.962
A-564	21.60	0.989
A-547	22.00	1.026
A-532	22.22	1.047
A-568	22.50	1.072
A-523	23.00	1.121
A-574	24.00	1.220
A-577	24.30	1.248
A-573	24.50	1.272
A-537	25.00	1.325
A-527	25.40	1.368
A-570	26.00	1.432
A-555	28.00	1.662
A-535	28.60	1.734
A-560	30.18	1.930
A-539	31.75	2.136
A-594	32.30	2.212
A-541	33.00	2.308
A-575	34.00	2.450
A-578	34.50	2.525
A-536	35.00	2.596
A-538	36.00	2.747
A-565	37.00	2.903
A-528	38.10	3.080
A-557	39.00	3.223
A-540	40.00	3.392
A-543	41.28	3.612
A-553	42.00	3.739
A-561	43.50	4.010
A-544	44.45	4.188
A-545	45.00	4.294
A-556	49.00	5.090
A-546	50.80	5.470
A-562	53.00	5.954
A-584	54.50	6.300
A-587	57.00	6.886
A-563	58.50	7.253
A-550	60.00	7.630
A-554	63.00	8.413
A-590	70.00	10.391
A-586	76.20	12.313
A-501	82.00	14.252
A-504	87.00	16.043

ALL DIMENSIONS ARE IN MM



**Square & Hexagonal Bars**

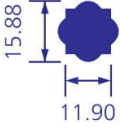
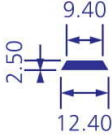
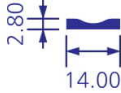
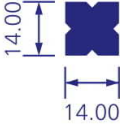
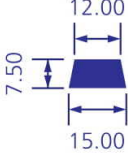
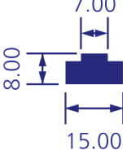
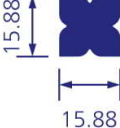

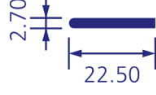
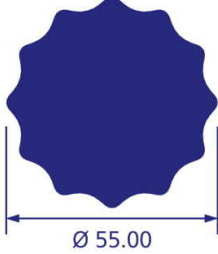
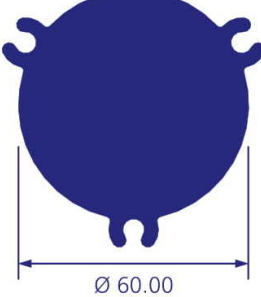


Sec. No	A	KG./M
A-732	6.00	0.097
A-712	6.35	0.109
A-709	8.15	0.179
A-710	9.00	0.219
A-715	9.50	0.245
A-734	9.95	0.267
A-738	11.58	0.362
A-735	11.80	0.376
A-717	12.70	0.436
A-716	13.80	0.514
A-714	15.00	0.608
A-718	15.87	0.680
A-723	19.00	0.975
A-719	20.00	1.080
A-726	25.00	1.687
A-720	25.40	1.742
A-722	28.00	2.117
A-724	31.75	2.722
A-711	35.00	3.308
A-721	38.10	3.919
A-731	40.00	4.320
A-733	43.00	4.992
A-725	45.00	5.468
A-730	50.80	6.968
A-736	63.00	10.716
A-737	75.00	15.187

Sec. No	A	KG./M
A-815	9.50	0.213
A-840	11.00	0.283
A-839	11.20	0.293
A-817	12.70	0.377
A-818	14.00	0.458
A-823	15.50	0.562
A-833	16.00	0.599
A-834	17.00	0.680
A-824	17.50	0.716
A-825	17.75	0.737
A-837	17.85	0.745
A-832	18.00	0.758
A-821	18.30	0.783
A-838	18.80	0.826
A-831	19.10	0.853
A-829	19.10	0.853
A-835	21.80	1.120
A-830	22.00	1.132
A-820	24.00	1.347
A-836	24.00	1.347
A-822	25.00	1.461
A-819	27.00	1.705
A-828	31.75	2.357

ALL DIMENSIONS ARE IN MM



<p>A-912      0.475 KG./M.</p> 	<p>A-930      0.074 KG./M.</p> 	<p>A-932      0.083 KG./M.</p> 
<p>A-928      0.505 KG./M.</p> 	<p>A-918      0.273 KG./M.</p> 	<p>A-927      0.280 KG./M.</p> 
<p>A-933      0.648 KG./M.</p> 	<p>A-926      0.310 KG./M.</p> 	<p>A-958      0.153 KG./M.</p> 
<p>A-944      5.720 KG./M.</p> 		<p>A-949      8.200 KG./M.</p> 

ALL DIMENSIONS ARE IN MM



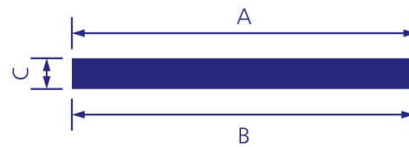
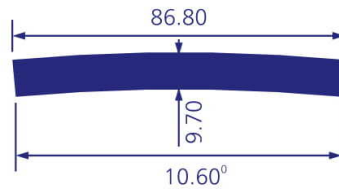
A-1042

0.800 KG./M.



A-1004

2.258 KG./M.



Sec. No.	A	B	C	KG./M
A-1007	89.58	89.04	8.00	1.929
A-1008	83.87	83.33	8.00	1.806
A-1009	78.16	77.62	8.00	1.682
A-1010	72.45	71.91	8.00	1.559
A-1011	66.74	66.20	8.00	1.436

ALL DIMENSIONS ARE IN MM





**INDO ALUSYS INDUSTRIES LIMITED**

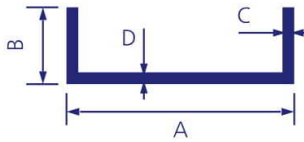
(Formerly Mahavir Aluminium Limited)

Superior Technology Superior Solutions

# Aluminium **Channels**



**Channel**



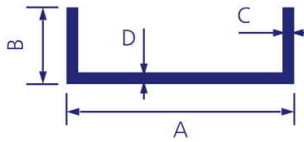
Sec. No.	A	B	C	D	KG./M
C-114	6.00	6.00	1.50	1.50	0.060
C-116	6.30	10.30	1.25	2.90	0.088
C-247	8.00	8.00	1.00	1.00	0.060
C-205	8.50	8.50	1.00	1.00	0.063
C-115	9.52	9.52	1.20	1.20	0.085
C-248	10.00	10.00	1.00	1.00	0.076
C-203	10.90	33.00	1.20	1.20	0.241
C-204	10.90	47.00	1.20	1.20	0.332
C-266	11.00	16.00	1.20	1.20	0.131
C-198	11.50	11.00	1.00	1.00	0.085
C-111	11.60	12.80	1.30	1.50	0.125
C-136	12.00	9.00	1.20	1.20	0.089
C-271	12.00	10.00	1.50	1.50	0.117
C-237	12.00	10.00	2.00	2.00	0.151
C-244	12.00	12.00	1.00	1.00	0.092
C-112	12.00	12.00	3.00	3.00	0.245
C-193	12.00	20.00	1.10	1.10	0.124
C-265	12.70	12.70	1.10	1.10	0.106
C-252	12.70	12.70	1.60	1.60	0.151
C-269	13.50	11.00	1.80	1.80	0.155
C-220	13.50	11.00	2.10	2.10	0.175
C-199	13.50	26.00	1.00	1.00	0.171
C-200	13.50	33.00	1.00	1.00	0.209
C-273	13.50	11.00	1.827	1.827	0.157
C-274	13.50	11.00	2.38	2.38	0.198
C-102	14.50	10.00	1.00	1.00	0.062
C-138	14.50	13.50	1.00	1.00	0.107
C-195	15.00	10.00	1.00	1.00	0.089
C-240	15.00	15.00	1.20	1.20	0.138
C-103	15.00	15.00	1.20	1.20	0.138
C-121	15.00	15.00	1.50	1.50	0.170
C-216	15.00	15.00	1.50	1.50	0.170
C-207	15.00	15.00	1.60	1.60	0.180
C-118	15.00	15.00	2.00	2.00	0.221
C-232	16.00	30.00	1.60	1.60	0.314

Sec. No.	A	B	C	D	KG./M
C-119	18.00	9.00	1.20	1.20	0.109
C-171	18.00	18.00	1.60	1.60	0.220
C-180	19.05	19.05	1.59	1.59	0.232
C-192	19.05	19.05	3.18	3.18	0.437
C-4006	20.00	10.00	1.80	1.80	0.201
C-219	20.00	20.00	1.30	1.30	0.201
C-215	21.00	26.60	1.60	1.60	0.307
C-210	22.00	8.00	3.00	2.50	0.246
C-148	22.00	11.00	1.30	1.30	0.145
C-183	22.23	22.23	3.20	3.20	0.521
C-150	23.00	11.00	1.38	1.38	0.157
C-151	23.00	11.00	1.80	1.80	0.202
C-149	23.00	11.00	2.20	2.20	0.242
C-120	23.00	11.00	2.50	2.50	0.270
C-128	23.00	21.50	1.50	1.50	0.255
C-162	24.00	12.00	1.80	1.80	0.216
C-208	25.0	06.50	2.50	2.50	0.223
C-147	25.00	11.00	1.00	1.00	0.122
C-163	25.00	12.00	2.00	2.00	0.245
C-164	25.00	12.00	3.00	3.00	0.350
C-4002	25.00	15.00	1.50	1.50	0.211
C-126	25.00	20.00	1.50	1.50	0.312
C-243	25.00	25.00	1.90	1.90	0.365
C-122	25.00	25.00	3.00	3.00	0.558
C-230	25.00	30.00	2.00	2.00	0.437
C-161	25.40	12.00	0.70	0.70	0.093
C-155	25.40	12.70	1.45	1.45	0.188
C-156	25.40	12.70	2.20	2.20	0.276
C-177	25.40	25.40	1.00	1.00	0.205
C-184	25.40	25.40	3.20	3.20	0.604
C-270	26.00	8.00	1.90	1.90	0.204
C-154	27.70	4.00	1.10	1.10	0.100
D-3730	28.30	30.00	3.00	3.00	0.670
C-225	28.30	30.00	3.00	3.00	0.670
C-152	30.00	12.00	1.80	1.80	0.245

ALL DIMENSIONS ARE IN MM



## Channel



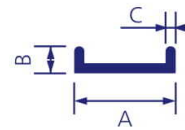
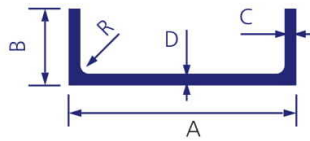
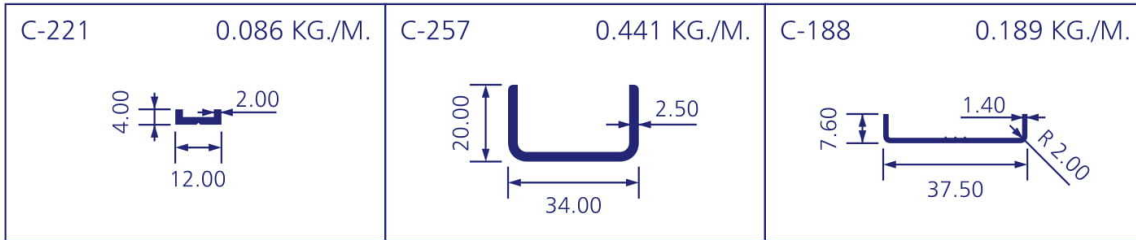
Sec. No.	A	B	C	D	KG./M
C-209	30.00	16.00	2.50	2.50	0.385
C-123	30.00	20.00	2.00	2.00	0.356
C-157	31.00	12.40	2.20	2.20	0.305
C-217	31.00	12.40	3.00	3.00	0.403
C-158	31.75	12.70	1.90	1.90	0.274
C-181	31.75	31.75	3.20	3.20	0.768
C-172	32.00	30.00	2.50	2.50	0.587
C-137	32.00	3.50	1.00	1.50	0.140
C-238	32.00	16.00	2.50	2.50	0.398
C-173	32.00	35.00	2.50	2.50	0.654
C-159	33.00	7.00	1.30	1.30	0.156
C-178	33.00	14.00	2.00	2.00	0.308
C-201	34.00	26.00	1.20	1.20	0.271
C-202	34.00	40.00	1.20	1.20	0.362
C-213	38.00	19.00	3.00	3.00	0.567
C-226	38.10	12.70	3.175	3.175	0.490
C-132	39.00	25.00	3.00	3.00	0.673
C-139	44.0	04.00	1.40	1.40	0.186
C-129	40.00	20.00	1.00	1.00	0.210
C-127	40.00	20.00	1.50	1.50	0.312
C-125	40.00	21.50	2.00	2.00	0.405
C-124	40.00	30.00	2.00	2.00	0.519
C-242	40.00	40.00	2.60	2.60	0.806
C-139	44.00	4.00	1.40	1.40	0.186
C-268	42.75	25.00	2.20	2.20	0.525
C-194	44.45	25.40	2.90	2.90	0.857
C-134	44.45	25.40	3.18	4.78	0.928
C-133	45.00	20.00	1.25	1.25	0.278
C-167	45.00	20.00	1.50	1.50	0.332
C-218	45.00	40.00	3.00	3.00	0.964
C-267	48.00	12.00	1.00	1.00	0.189
C-143	50.00	25.00	4.50	4.50	1.106
C-254	50.00	30.00	3.00	3.00	0.842
C-224	50.00	38.00	3.00	3.00	0.980

Sec. No.	A	B	C	D	KG./M
C-246	50.00	38.00	5.00	5.00	1.566
C-206	50.00	45.00	5.00	5.00	1.755
C-174	50.80	12.70	3.17	3.17	0.596
C-135	50.80	25.40	3.10	3.10	0.798
C-182	50.80	25.40	3.20	3.20	0.823
C-191	50.80	50.80	6.40	6.40	2.411
C-145	56.00	25.00	2.50	2.50	0.690
C-228	57.00	25.00	2.00	2.00	0.556
C-249	57.30	50.00	4.00	4.00	1.611
C-168	58.00	15.00	1.50	1.50	0.345
C-212	60.00	20.00	2.00	2.00	0.519
C-107	60.00	20.00	3.75	4.00	0.972
C-197	60.00	25.00	1.25	1.25	0.363
C-250	60.00	25.00	1.50	1.50	0.433
C-253	63.00	18.00	2.00	2.00	0.513
C-214	64.00	18.00	2.50	2.50	0.642
C-251	65.40	3.20	1.20	1.50	0.276
C-144	65.00	45.00	5.30	5.30	2.068
C-130	74.00	50.00	1.20	1.20	0.556
C-105	76.20	50.80	6.35	6.35	2.830
C-140	82.00	4.00	1.40	1.40	0.330
C-222	86.00	22.00	2.00	2.00	0.680
C-211	89.00	25.00	2.00	2.00	0.729
C-231	90.00	25.00	1.60	1.60	0.589
C-196	99.70	29.70	1.40	1.40	0.591
C-169	100.00	25.00	2.00	2.00	0.790
C-165	100.00	50.00	2.00	2.00	1.058
C-141	119.00	4.00	1.40	1.40	0.470
C-233	120.00	83.00	3.00	3.00	2.268
C-234	120.00	97.00	3.00	3.00	2.495
C-261	127.00	48.00	12.0	12.0	6.447
C-142	156.50	4.00	1.40	1.40	0.612
C-264	175.00	50.00	2.50	2.50	1.823
C-241	177.80	58.40	10.0	10.0	7.414

ALL DIMENSIONS ARE IN MM

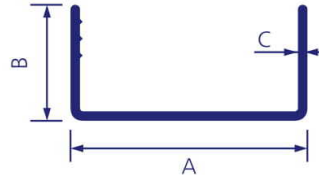
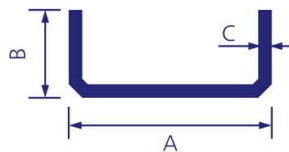


Channel



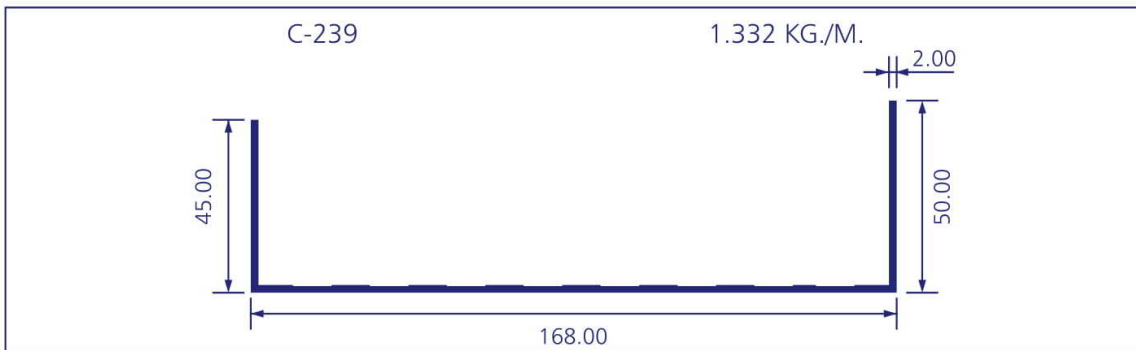
Sec. No.	A	B	C	D	R	KG./M
C-263	76.20	38.10	6.40	6.40	9.00	2.518
C-258	90.00	25.00	1.60	1.60	3.00	0.600
C-262	101.60	50.80	6.40	7.90	9.10	3.744
C-236	101.60	41.83	6.68	6.68	9.25	3.200
C-235	127.00	47.88	8.05	8.05	9.25	4.592
C-260	127.00	48.00	8.00	8.00	9.50	4.590
C-259	152.40	51.66	8.10	8.10	11.11	5.380

Sec. No.	A	B	C	KG./M
C-245	15.00	4.00	1.50	0.080
C-179	34.00	7.00	2.00	0.235
C-186	35.80	49.30	1.60	0.567
C-189	37.50	22.00	1.40	0.297



Sec. No.	A	B	C	KG./M
C-176	23.00	18.50	1.20	0.189
C-175	23.00	20.00	1.30	0.208
C-131	23.00	20.00	1.50	0.249

Sec. No.	A	B	C	KG./M
C-187	35.00	30.00	1.40	0.348
C-185	35.80	40.50	1.60	0.492

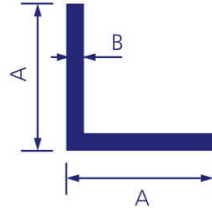


ALL DIMENSIONS ARE IN MM





## Equal Angles



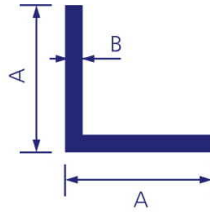
Sec. No.	A	B	KG./M
C-593	10.00	1.00	0.051
C-545	12.00	1.00	0.062
C-535	12.00	1.10	0.068
C-536	12.00	1.22	0.076
C-544	12.40	1.26	0.081
C-513	12.70	1.60	0.103
C-575	12.70	1.70	0.109
C-553	12.70	2.50	0.155
C-514	12.70	3.10	0.187
C-590	15.00	1.00	0.078
C-592	15.00	1.50	0.115
C-596	15.00	3.00	0.219
C-546	17.00	1.00	0.089
C-597	18.00	2.00	0.184
C-537	18.00	1.22	0.115
C-554	19.00	2.50	0.240
C-517	19.00	3.10	0.292
C-515	19.05	1.22	0.122
C-540	20.00	1.00	0.105
C-518	20.00	1.10	0.115
C-516	20.00	1.50	0.156
C-543	20.00	2.00	0.205
C-538	23.00	1.22	0.148
C-521	24.00	2.35	0.290
C-539	25.00	1.10	0.145
C-574	25.00	1.20	0.158
C-594	25.00	1.50	0.196
C-508	25.00	1.60	0.209
C-533	25.00	1.90	0.246
C-519	25.00	2.50	0.320
C-555	25.00	3.00	0.381
C-563	25.00	4.50	0.553

Sec. No.	A	B	KG./M
C-565	25.40	1.60	0.212
C-569	25.40	3.18	0.409
C-520	25.40	3.20	0.412
C-541	28.00	1.90	0.290
C-591	30.00	1.00	0.159
C-542	30.00	1.50	0.237
C-529	30.00	2.00	0.313
C-556	30.00	2.50	0.388
C-564	30.00	3.00	0.462
C-532	30.00	5.00	0.742
C-527	31.00	1.10	0.180
C-522	31.00	3.10	0.493
C-570	31.75	1.58	0.264
C-573	31.75	6.35	0.980
C-526	35.00	1.50	0.277
C-523	35.00	3.10	0.560
C-581	35.00	4.00	0.713
C-598	36.00	2.00	0.378
C-562	38.00	1.00	0.202
C-507	38.00	2.00	0.400
C-549	38.00	2.50	0.497
C-524	38.00	2.95	0.581
C-528	38.00	3.20	0.630
C-511	38.00	4.00	0.778
C-599	38.00	4.10	0.795
C-512	38.00	6.00	1.134
C-530	38.10	1.50	0.303
C-525	38.10	4.80	0.925
C-589	40.00	1.40	0.297
C-595	40.00	1.50	0.318
C-567	40.00	2.00	0.421
C-559	40.00	3.00	0.623

ALL DIMENSIONS ARE IN MM



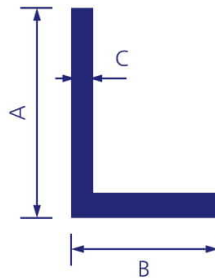
## Equal Angles



Sec. No.	A	B	KG./M
C-557	40.00	4.00	0.820
C-588	40.00	5.00	1.012
C-548	45.00	20.00	3.780
C-550	50.00	1.20	0.320
C-578	50.00	2.00	0.529
C-551	50.00	2.50	0.658
C-560	50.00	3.00	0.785
C-510	50.00	4.00	1.037
C-561	50.00	5.00	1.282
C-509/587	50.00	6.00	1.522
C-576	50.80	3.20	0.850

Sec. No.	A	B	KG./M
C-568	50.80	4.76	1.245
C-566	50.80	6.35	1.635
C-579	63.50	3.20	1.070
C-531	63.50	6.40	2.084
C-552	75.00	1.40	0.562
C-571	76.20	6.35	2.504
C-583	80.00	6.00	2.495
C-572	100.00	4.00	2.117
C-582	100.00	6.00	3.143
C-558	100.00	10.00	5.130

## Unequal Angles



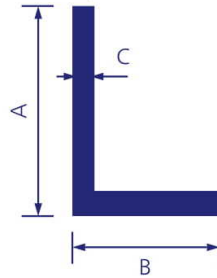
Sec. No.	A	B	C	KG./M
C-672	15.00	10.00	1.50	0.095
C-662	19.00	8.00	1.50	0.103
C-663	19.05	12.70	1.20	0.099
C-661	19.80	12.80	1.35	0.114
C-718	20.00	10.00	1.50	0.115
C-684	22.00	12.70	3.20	0.272
C-668	23.00	12.00	1.87	0.167
C-714	25.00	15.00	2.00	0.203
C-673	25.00	20.00	1.25	0.150

Sec. No.	A	B	C	KG./M
C-664	25.40	12.70	1.30	0.129
C-686	25.40	12.70	1.65	0.162
C-701	25.40	12.70	1.80	0.177
C-703	25.40	12.70	3.18	0.300
C-685	25.40	15.88	3.17	0.326
C-713	25.40	19.05	2.54	0.287
C-711	30.00	15.00	2.00	0.233
C-727	30.00	20.00	4.00	0.497
C-731	31.75	17.70	3.18	0.398

ALL DIMENSIONS ARE IN MM

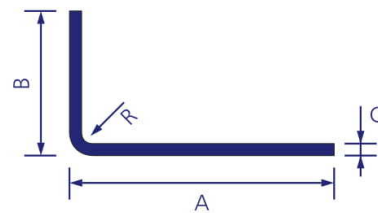


Unequal Angles



Sec. No.	A	B	C	KG./M
C-667	31.75	19.05	1.60	0.213
C-715	32.00	15.00	1.60	0.196
C-675	34.00	23.00	3.00	0.449
C-666	35.00	15.00	2.00	0.259
C-689	35.00	25.00	5.50	0.810
C-674	38.00	16.00	1.30	0.185
C-710	38.00	25.00	2.00	0.330
C-720	38.00	19.00	3.00	0.437
C-716	38.00	25.00	4.00	0.637
C-676	38.10	25.40	3.00	0.490
C-669	38.50	4.00	1.20	0.134
C-688	40.00	20.00	1.30	0.206
C-721	40.00	25.00	2.50	0.422
C-687	40.00	25.00	3.00	0.502
C-712	50.00	10.00	3.00	0.462
C-1510	50.00	15.00	2.00	0.340
C-709	50.00	20.00	1.20	0.223
C-665	50.00	20.00	5.00	0.880
C-1507	50.00	25.00	2.50	0.490
C-679	50.00	28.00	1.20	0.250
C-719	50.00	35.00	7.00	1.474
C-724	50.00	40.00	3.00	0.705
C-677	50.80	25.40	2.00	0.400
C-678	50.80	25.40	3.00	0.593
C-697	50.80	25.40	4.76	0.918
C-671	50.80	49.90	9.50	2.339
C-660	55.30	28.30	2.50	0.547
C-729	58.00	20.00	3.00	0.608
C-706	60.00	40.00	2.00	0.529
C-726	63.00	25.00	4.00	0.907
C-725	63.00	38.00	5.00	1.269

Sec. No.	A	B	C	KG./M
C-702	65.00	40.00	8.00	2.095
C-690	65.00	50.00	2.00	0.610
C-730	70.00	25.00	2.00	0.502
C-723	70.00	29.00	8.00	1.966
C-691	75.00	50.00	3.00	0.988
C-694	75.00	50.00	4.00	1.310
C-699	76.20	50.80	6.35	2.069
C-722	78.00	47.00	12.00	3.839
C-707	100.00	50.00	4.00	1.577
C-584	100.00	75.00	6.00	2.740
C-705	101.60	50.80	3.20	1.290
C-698	101.60	50.80	6.35	2.504
C-695	125.00	50.00	4.00	1.847
C-708	142.00	48.50	4.00	2.014
C-680	150.00	50.00	4.00	2.117
C-728	150.00	50.00	5.00	2.633
C-733	200.00	50.00	4.00	2.657
C-732	230.00	40.00	4.00	2.873

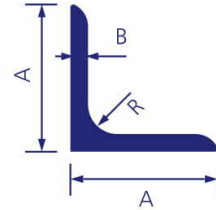
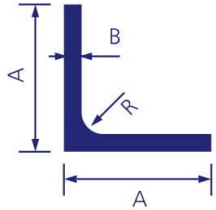


Sec. No.	A	B	C	R	KG./M
C-754	27.70	21.70	2.30	3.50	0.286
C-755	37.00	18.00	2.30	4.00	0.320
C-753	55.00	35.00	2.50	5.00	0.577
C-756	55.00	55.00	2.50	5.00	0.712

ALL DIMENSIONS ARE IN MM



**Equal Angles (Round Fillet)**



Sec. No.	A	B	R	KG./M
C-750	25.00	5.00	5.00	0.627
C-585	30.00	6.00	1.00	0.875
C-740	31.75	3.18	5.08	0.533
C-741	38.10	3.18	5.33	0.643
C-744	38.10	4.78	5.33	0.931
C-586	40.00	6.00	1.00	1.200
C-587	50.00	6.00	1.00	1.525
C-747	50.75	4.78	6.10	1.266
C-745	50.80	4.78	0.79	1.250
C-749	63.50	6.40	7.62	2.120
C-746	76.20	6.36	7.62	2.541

Sec. No.	A	B	R	KG./M
C-751	25.00	1.50	2.50	0.200
C-748	25.00	2.00	2.00	0.257
C-737	25.00	3.00	3.00	0.370
C-743	25.40	3.18	0.79	0.408
C-739	30.00	3.00	2.00	0.469
C-738	50.00	3.00	3.00	0.779

**Unequal Angles**



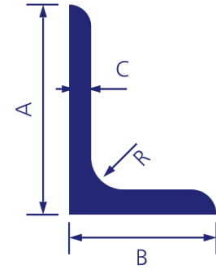
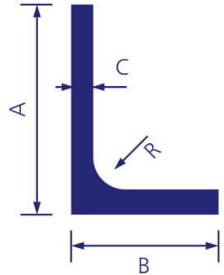
Sec. No.	A	B	C	D	KG./M
C-700	25.40	22.50	3.00	8.50	0.715
C-752	39.70	28.6	2.36	1.57	0.341
C-659	72.40	23.9	3.90	2.30	0.677
C-704	76.50	28.0	2.20	1.50	0.467



ALL DIMENSIONS ARE IN MM



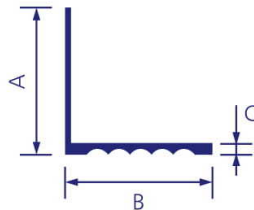
## Unequal Angles (Round Fillet)



Sec. No.	A	B	C	R	KG./M
C-794	25.40	19.05	2.00	1.50	0.231
C-725	63.00	38.00	5.00	0.40	1.296
C-788	63.50	50.80	4.78	6.60	1.439
C-789	75.00	40.00	7.00	4.00	2.050
C-792	76.20	50.80	6.35	6.85	2.096
C-584	100.00	75.00	6.00	1.00	2.740

Sec. No.	A	B	C	R	KG./M
C-790	19.00	25.40	3.20	1.60	0.356
C-797	20.0	15.00	2.00	2.00	0.180
C-800	20.0	15.00	1.80	1.80	0.160
C-799	25.0	15.00	1.80	1.80	0.185
C-796	25.0	15.00	2.00	2.00	0.205
C-798	25.0	20.00	1.80	1.80	0.209
C-795	25.0	20.00	2.00	2.00	0.230
C-801	75.0	50.00	3.00	3.00	0.982
C-802	75.0	50.00	4.00	4.00	1.295
C-803	100.0	50.00	4.00	4.00	1.565
C-692	150.0	75.00	6.00	6.00	3.350

## Fluted Angles

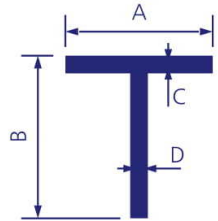


Sec. No.	A	B	C	KG./M
E-403	12.00	18.00	0.55	0.050
E-412	12.70	12.70	1.27	0.100
E-401	12.75	12.75	0.50	0.040
E-402	16.00	12.75	0.55	0.054
E-415	15.00	15.00	0.60	0.061
E-414	16.00	16.00	1.20	0.116
E-416	19.05	19.05	1.30	0.144

ALL DIMENSIONS ARE IN MM

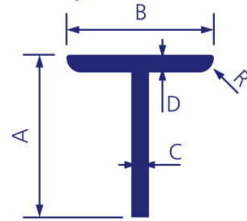


**Tees (Square)**



Sec. No.	A	B	C	D	KG/M
C-347	12.70	12.70	1.10	1.10	0.072
C-371	13.00	12.00	3.00	3.00	0.178
C-360	18.00	14.00	2.10	2.10	0.170
C-346	18.00	18.00	1.80	1.80	0.166
C-358	18.00	18.00	2.10	2.10	0.192
C-358/L	18.75	18.75	2.00	2.00	0.195
C-343	19.00	23.00	2.50	2.50	0.267
C-341	19.05	19.05	0.80	0.80	0.065
C-369	22.60	13.60	3.70	4.70	0.351
C-363	23.00	26.00	2.80	2.40	0.324
C-351	23.00	29.00	3.90	3.40	0.473
C-352	23.50	19.00	1.50	1.50	0.166
C-365	23.50	23.50	1.10	1.10	0.136
C-344	23.50	29.20	4.00	4.00	0.525
C-345	24.00	24.00	2.10	2.10	0.260
C-359	24.00	24.00	5.00	5.00	0.581
C-361	24.00	29.00	4.50	4.50	0.591
C-353	25.00	25.00	3.00	3.00	0.381
C-356	25.00	40.00	2.00	2.00	0.340
C-348	25.00	40.00	3.00	3.00	0.502
C-355	25.00	45.00	2.80	2.20	0.440
C-350	32.00	32.00	1.40	1.40	0.236
C-349	38.00	38.00	1.60	1.60	0.321
C-342	38.00	38.00	2.00	2.00	0.400
C-362	38.00	38.00	3.00	3.00	0.592
C-366	40.00	40.00	6.00	6.00	1.199
C-1006	48.00	21.00	1.00	1.00	0.184
C-357	50.00	25.00	2.50	2.50	0.490
C-354	50.00	50.00	5.00	5.00	1.283
C-368	50.00	50.00	7.00	7.00	1.758
C-367	75.00	75.00	6.00	6.00	2.335

**Tees (Round Corner)**



Sec. No.	A	B	C	D	R	KG/M
C-473	27.00	29.00	5.00	2.60	3.00	0.525
C-477	31.80	35.00	4.00	2.90	3.00	0.570
C-474	35.00	35.60	5.00	2.50	4.50	0.702
C-466	37.00	42.50	4.25	4.00	2.00	0.821
C-465	37.10	39.50	6.10	3.65	3.00	0.940
C-475	38.00	40.00	5.50	3.60	2.00	0.895
C-476	39.00	39.00	6.80	3.80	2.00	1.042
C-467	39.00	42.50	7.60	4.00	2.00	1.180
C-364	41.50	41.50	7.50	4.40	2.00	1.240
C-479	41.50	41.50	6.70	3.80	2.00	1.104
C-478	42.00	42.00	8.00	4.50	2.00	1.317

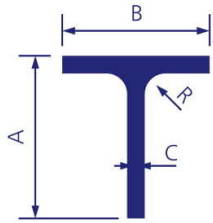
**C-577** 0.242 KG./M.

**C-693** 6.467 KG./M.

ALL DIMENSIONS ARE IN MM

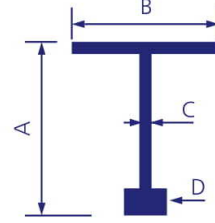


**Tees (Round Fillet)**



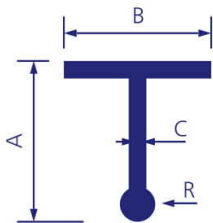
Sec. No.	A	B	C	R	KG./M
C-469	18.00	18.00	1.60	4.50	0.172
C-471	21.50	21.50	1.90	2.00	0.210
C-472	23.00	23.00	2.20	2.00	0.275
C-470	24.00	24.00	1.90	4.50	0.260
C-480	24.00	24.00	2.40	3.50	0.309
C-468	24.00	24.00	2.60	4.50	0.352

**Tees (Bulb)**



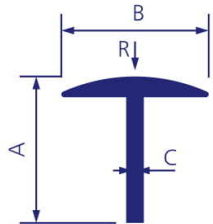
Sec. No.	A	B	C	D	KG./M
C-855	23.50	36.50	1.50	3.00	0.257
C-868	25.00	25.00	1.05	3.00	0.154
C-866	25.00	25.00	1.20	3.00	0.179
C-858	25.00	25.00	1.40	3.00	0.196
C-865	25.00	25.00	1.60	3.00	0.220
C-867	25.00	35.00	1.40	3.00	0.238
C-851	25.40	25.40	1.10	3.00	0.165
C-862	25.40	38.10	1.00	3.00	0.187
C-863	25.40	38.10	1.45	3.00	0.261
C-864	25.40	38.10	1.50	3.00	0.276
C-872	25.50	35.00	1.50	3.00	0.263
C-852	31.75	31.75	1.00	3.00	0.187
C-856	35.00	35.00	1.50	3.00	0.330
C-857	35.00	45.00	1.50	3.00	0.530
C-871	38.00	60.00	1.50	3.00	0.504
C-853	38.10	38.10	1.40	3.00	0.297
C-869	38.10	38.10	1.60	3.00	0.334
C-870	38.10	50.80	1.50	4.00	0.381
C-854	38.10	63.50	1.24	3.00	0.354

**Tees (Bulb)**



Sec. No.	A	B	C	D	KG./M
C-890	55.00	55.00	2.00	4.00	0.572
C-891	65.00	50.00	2.00	4.00	0.625

**Tees (Round Head)**



Sec. No.	A	B	C	D	R	KG./M
C-842	15.88	15.88	1.10	2.00	15.50	0.107
C-838	22.22	22.22	1.30	3.18	22.00	0.195

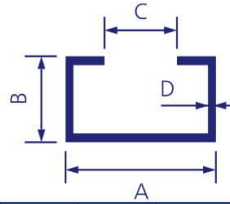
C-481 3.893 KG./M.

ALL DIMENSIONS ARE IN MM

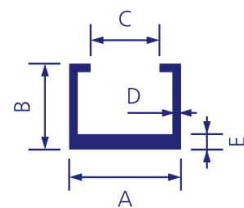


**Channel**

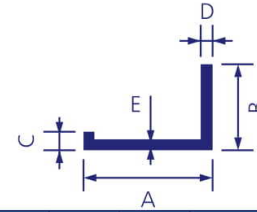
**Textile Channel**



Sec. No.	A	B	C	D	G./M
C-889	15.50	10.20	6.50	1.00	0.111
C-961	19.00	25.00	7.00	1.20	0.247
C-977	20.80	11.70	9.00	1.00	0.141
C-980	20.84	11.70	9.00	1.20	0.166
C-978	21.00	11.50	8.50	1.20	0.168
C-979	22.00	14.00	9.00	1.20	0.189
C-966	22.50	14.00	8.80	1.50	0.240
C-967	22.50	14.00	9.50	2.00	0.300
C-1010	27.00	25.50	17.00	2.00	0.432
C-926	28.80	18.00	16.50	2.50	0.450
C-961	29.00	25.00	7.00	1.20	0.247
C-810	35.00	15.00	15.00	5.00	0.878
C-886	35.00	16.00	17.00	4.00	0.745
C-983	38.00	9.50	33.00	1.30	0.201
C-975	38.00	38.00	13.00	1.65	0.590
C-954	40.00	40.00	14.40	3.00	1.080
C-987	50.00	50.00	13.00	2.00	0.966
C-896	63.50	23.00	38.10	2.00	0.685
C-929	65.00	20.00	41.00	1.50	0.499
C-953	65.00	65.00	22.00	4.00	2.443
C-986	65.00	65.00	24.00	4.30	2.545
C-106	72.00	24.00	48.00	1.10	0.415
C-1001	120.00	40.00	96.00	1.40	0.825



Sec. No.	A	B	C	D	E	KG./M
C-974	13.00	10.00	8.00	1.00	1.80	0.115
C-1018	13.00	10.00	8.00	1.00	1.60	0.110
C-968	14.50	11.50	10.00	1.00	1.50	0.120



Sec. No.	A	B	C	D	E	KG./M
C-109	19.05	13.00	2.80	1.80	1.65	0.115
C-125	40.00	21.50	19.50	2.00	2.00	0.415
C-888	49.00	30.00	15.00	3.00	3.00	0.713
C-930	57.00	25.00	12.00	2.00	2.00	0.486
C-894	60.00	25.00	12.00	1.50	1.50	0.381

C-109 0.210 KG./M.

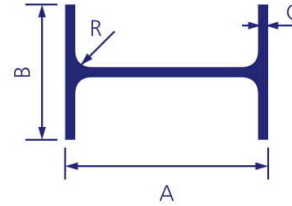
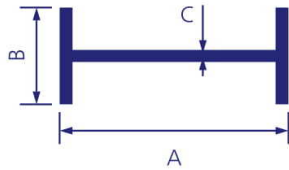
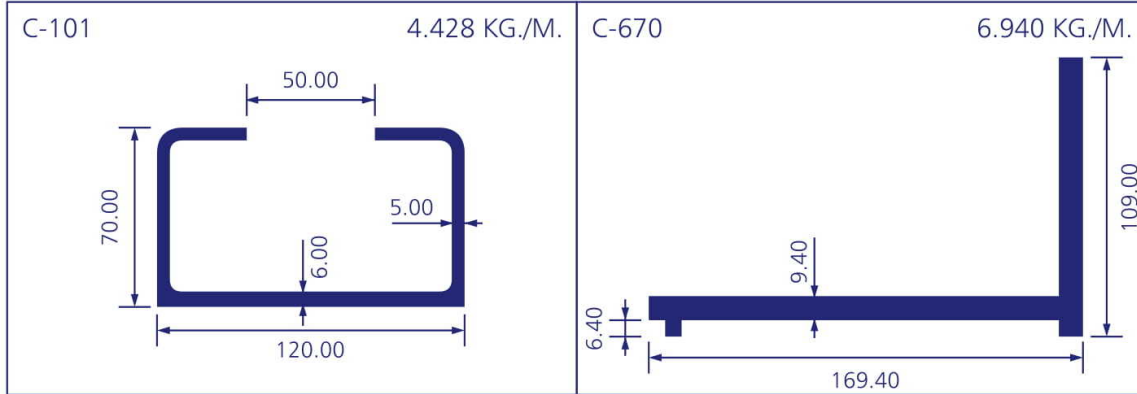
C-976 0.612 KG./M.

ALL DIMENSIONS ARE IN MM





**Channel & H Section**



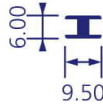
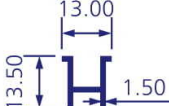
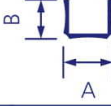
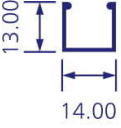
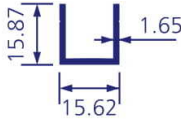
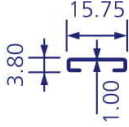
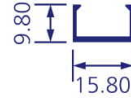
Sec. No.	A	B	C	KG./M
C-820	9.52	19.10	0.80	0.099
C-808	11.00	33.70	1.05	0.216
C-819	11.00	33.70	1.20	0.246
E-118	15.00	5.50	0.55	0.036
C-818	25.40	21.20	1.50	0.263
C-834	26.00	22.00	1.10	0.210
C-832	26.00	22.00	1.15	0.211
C-813	27.00	21.50	1.70	0.305
C-814	27.00	22.00	2.15	0.388
C-807	27.50	22.50	2.25	0.413
C-835	28.00	21.50	1.55	0.284
C-811	28.00	22.00	1.83	0.339
C-809	28.00	22.00	2.45	0.444
C-844	30.00	11.00	1.00	0.134
C-821	31.00	32.00	3.00	0.721
C-812	32.00	12.00	1.80	0.232
C-839	39.70	15.00	2.20	0.388
C-817	48.00	14.30	1.30	0.260
C-843	55.00	15.00	2.20	0.479
C-831	56.00	52.50	2.50	1.053
C-806	57.00	48.50	2.00	0.735
C-829	61.60	14.50	1.80	0.425

Sec. No.	A	B	C	R	KG./M
C-823	28.80	22.50	2.40	2.00	0.455
C-822	47.63	44.45	3.18	3.18	1.141
C-903	150.00	100.00	6.00	3.00	5.087

ALL DIMENSIONS ARE IN MM



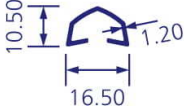
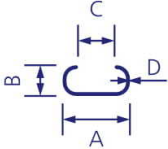
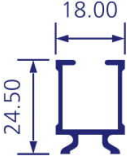
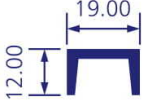
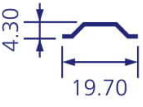
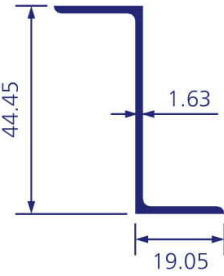
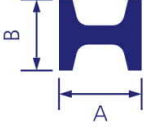
Miscellaneous

<p>C-948</p> <p>0.060 KG./M.</p> 	<p>C-816</p> <p>0.100 KG./M.</p> 																
<p>C-815</p> <p>0.116 KG./M.</p> 	<p>C-825</p> <p>0.149 KG./M.</p> 																
<p></p> <table border="1" data-bbox="267 1060 787 1207"> <thead> <tr> <th>Sec. No.</th> <th>A</th> <th>B</th> <th>KG./M</th> </tr> </thead> <tbody> <tr> <td>C-973</td> <td>13.00</td> <td>10.20</td> <td>0.100</td> </tr> <tr> <td>C-947</td> <td>14.00</td> <td>10.50</td> <td>0.089</td> </tr> <tr> <td>C-972</td> <td>15.50</td> <td>11.00</td> <td>0.189</td> </tr> </tbody> </table>	Sec. No.	A	B	KG./M	C-973	13.00	10.20	0.100	C-947	14.00	10.50	0.089	C-972	15.50	11.00	0.189	<p>C-958</p> <p>0.109 KG./M.</p> 
Sec. No.	A	B	KG./M														
C-973	13.00	10.20	0.100														
C-947	14.00	10.50	0.089														
C-972	15.50	11.00	0.189														
<p>C-984</p> <p>0.122 KG./M.</p> 	<p>C-1003</p> <p>0.196 KG./M.</p> 																
<p>C-928</p> <p>0.072 KG./M.</p> 	<p>C-931</p> <p>0.118 KG./M.</p> 																

ALL DIMENSIONS ARE IN MM



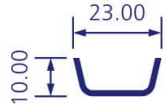
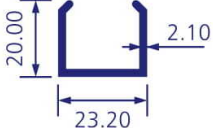
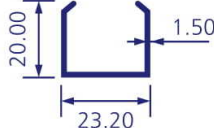
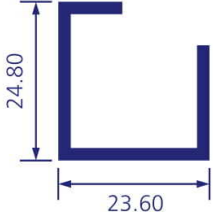
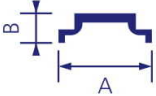
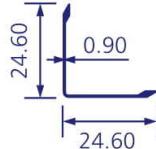
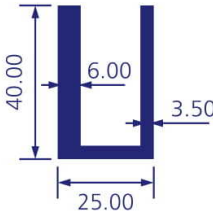
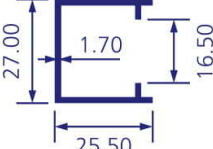
Miscellaneous

<p>C-924</p> <p>0.120 KG./M.</p> 																									
<p>C-962</p> <p>0.295 KG./M.</p> 	<table border="1"> <thead> <tr> <th>Sec. No.</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>KG./M</th> </tr> </thead> <tbody> <tr> <td>C-1005</td> <td>17.50</td> <td>8.00</td> <td>9.50</td> <td>1.00</td> <td>0.087</td> </tr> <tr> <td>C-884</td> <td>15.20</td> <td>7.20</td> <td>7.00</td> <td>1.05</td> <td>0.080</td> </tr> <tr> <td>C-883</td> <td>33.50</td> <td>15.50</td> <td>15.00</td> <td>1.10</td> <td>0.188</td> </tr> </tbody> </table>	Sec. No.	A	B	C	D	KG./M	C-1005	17.50	8.00	9.50	1.00	0.087	C-884	15.20	7.20	7.00	1.05	0.080	C-883	33.50	15.50	15.00	1.10	0.188
Sec. No.	A	B	C	D	KG./M																				
C-1005	17.50	8.00	9.50	1.00	0.087																				
C-884	15.20	7.20	7.00	1.05	0.080																				
C-883	33.50	15.50	15.00	1.10	0.188																				
<p>C-937</p> <p>0.258 KG./M.</p> 	<p>C-925</p> <p>0.072 KG./M.</p> 																								
<p>C-945</p> <p>0.351 KG./M.</p> 	 <table border="1"> <thead> <tr> <th>Sec. No.</th> <th>A</th> <th>B</th> <th>KG./M</th> </tr> </thead> <tbody> <tr> <td>C-826</td> <td>21.50</td> <td>18.50</td> <td>0.575</td> </tr> <tr> <td>C-827</td> <td>25.75</td> <td>18.50</td> <td>0.640</td> </tr> <tr> <td>C-830</td> <td>34.50</td> <td>18.50</td> <td>0.855</td> </tr> <tr> <td>C-828</td> <td>42.25</td> <td>18.50</td> <td>0.824</td> </tr> </tbody> </table>	Sec. No.	A	B	KG./M	C-826	21.50	18.50	0.575	C-827	25.75	18.50	0.640	C-830	34.50	18.50	0.855	C-828	42.25	18.50	0.824				
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C-826	21.50	18.50	0.575																						
C-827	25.75	18.50	0.640																						
C-830	34.50	18.50	0.855																						
C-828	42.25	18.50	0.824																						

ALL DIMENSIONS ARE IN MM



Miscellaneous

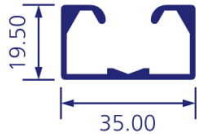
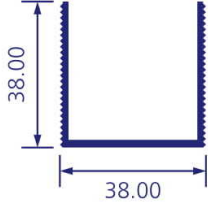
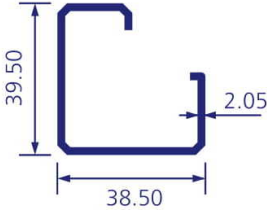
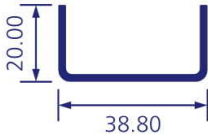
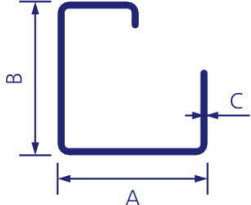
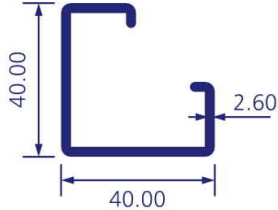
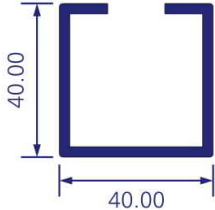
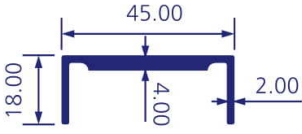
<p>C-992</p> <p>0.156 KG./M.</p> 	<p>C-999</p> <p>0.338 KG./M.</p> 												
<p>C-1000</p> <p>0.255 KG./M.</p> 	<p>C-990</p> <p>0.382 KG./M.</p> 												
 <table border="1" data-bbox="267 1266 787 1371"> <thead> <tr> <th>Sec. No.</th> <th>A</th> <th>B</th> <th>KG./M</th> </tr> </thead> <tbody> <tr> <td>C-824</td> <td>24.30</td> <td>7.70</td> <td>0.185</td> </tr> <tr> <td>C-957</td> <td>21.30</td> <td>8.40</td> <td>0.108</td> </tr> </tbody> </table>	Sec. No.	A	B	KG./M	C-824	24.30	7.70	0.185	C-957	21.30	8.40	0.108	<p>C-1013</p> <p>0.130 KG./M.</p> 
Sec. No.	A	B	KG./M										
C-824	24.30	7.70	0.185										
C-957	21.30	8.40	0.108										
<p>C-1011</p> <p>1.172 KG./M.</p> 	<p>C-1009</p> <p>0.361 KG./M.</p> 												

ALL DIMENSIONS ARE IN MM





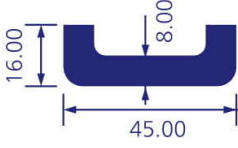
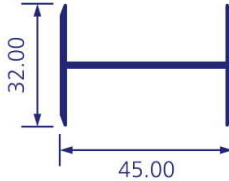
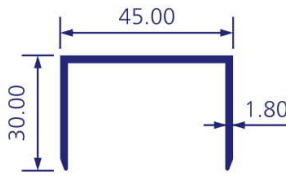
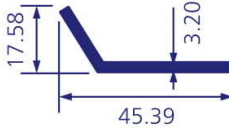
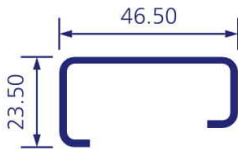
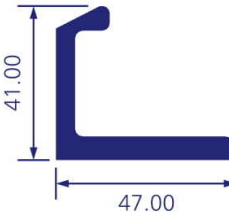
Miscellaneous

<p>C-996 0.513 KG./M.</p> 	<p>C-933 0.805 KG./M.</p> 															
<p>C-985 0.628 KG./M.</p> 	<p>C-952 0.400 KG./M.</p> 															
 <table border="1" data-bbox="267 1318 787 1430"> <thead> <tr> <th>Sec. No.</th> <th>A</th> <th>B</th> <th>C</th> <th>KG./M</th> </tr> </thead> <tbody> <tr> <td>C-969</td> <td>39.00</td> <td>40.00</td> <td>1.85</td> <td>0.592</td> </tr> <tr> <td>C-970</td> <td>39.00</td> <td>40.00</td> <td>3.10</td> <td>0.895</td> </tr> </tbody> </table>	Sec. No.	A	B	C	KG./M	C-969	39.00	40.00	1.85	0.592	C-970	39.00	40.00	3.10	0.895	<p>C-938 0.820 KG./M.</p> 
Sec. No.	A	B	C	KG./M												
C-969	39.00	40.00	1.85	0.592												
C-970	39.00	40.00	3.10	0.895												
<p>C-954 1.080 KG./M.</p> 	<p>C-170 0.586 KG./M.</p> 															

ALL DIMENSIONS ARE IN MM



Miscellaneous

<p>C-892</p> <p>1.302 KG./M.</p> 	<p>C-934</p> <p>0.500 KG./M.</p> 
<p>C-936</p> <p>0.490 KG./M.</p> 	<p>C-1015</p> <p>0.452 KG./M.</p> 
<p>C-991</p> <p>0.459 KG./M.</p> 	<p>C-927</p> <p>1.333 KG./M.</p> 

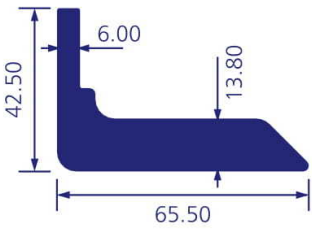
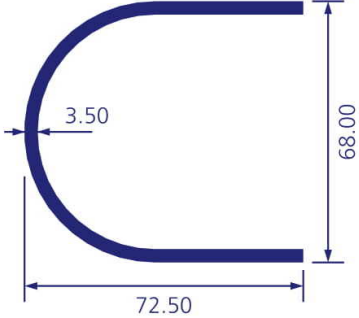
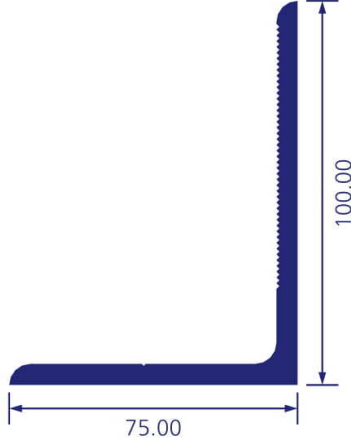
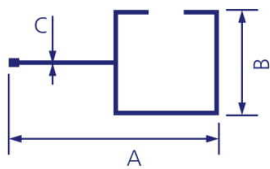
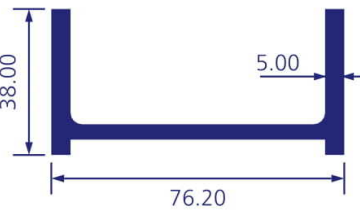
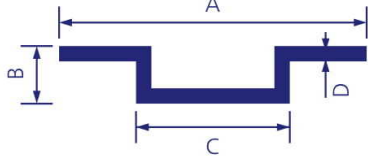
ALL DIMENSIONS ARE IN MM







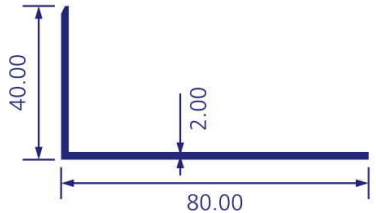
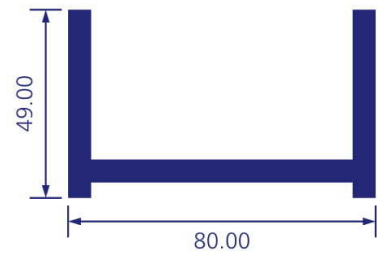
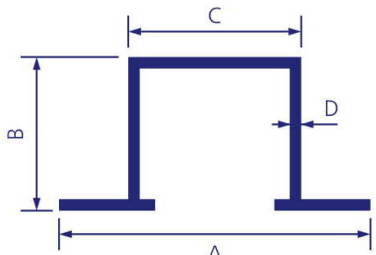
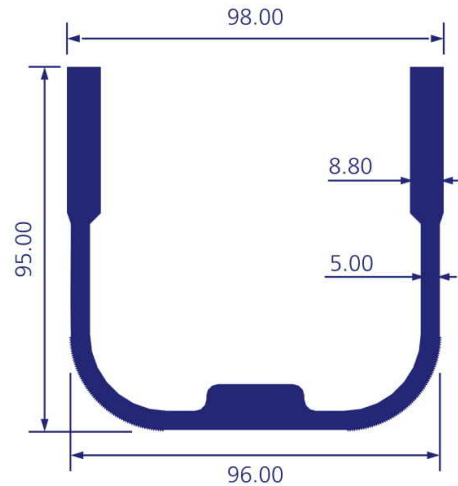
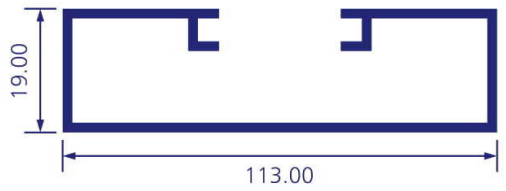
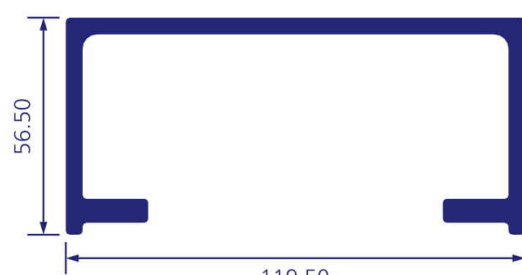
Miscellaneous

<p>C-1014 2.802 KG./M.</p> 	<p>C-881 1.685 KG./M.</p> 																																				
<p>C-950 2.453 KG./M.</p> 	 <table border="1" data-bbox="868 1081 1315 1207"> <thead> <tr> <th>Sec. No.</th> <th>A</th> <th>B</th> <th>C</th> <th>KG./M</th> </tr> </thead> <tbody> <tr> <td>C-949</td> <td>76.00</td> <td>38.00</td> <td>1.50</td> <td>0.708</td> </tr> <tr> <td>C-898</td> <td>88.50</td> <td>38.00</td> <td>1.50</td> <td>0.761</td> </tr> </tbody> </table>	Sec. No.	A	B	C	KG./M	C-949	76.00	38.00	1.50	0.708	C-898	88.50	38.00	1.50	0.761																					
Sec. No.	A	B	C	KG./M																																	
C-949	76.00	38.00	1.50	0.708																																	
C-898	88.50	38.00	1.50	0.761																																	
<p>C-897 1.751 KG./M.</p> 	 <table border="1" data-bbox="828 1522 1356 1753"> <thead> <tr> <th>Sec. No.</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>KG./M</th> </tr> </thead> <tbody> <tr> <td>C-939</td> <td>63.50</td> <td>31.80</td> <td>25.40</td> <td>3.18</td> <td>1.036</td> </tr> <tr> <td>C-943</td> <td>80.00</td> <td>15.00</td> <td>40.00</td> <td>4.00</td> <td>1.102</td> </tr> <tr> <td>C-942</td> <td>88.90</td> <td>44.45</td> <td>44.45</td> <td>3.18</td> <td>1.500</td> </tr> <tr> <td>C-940</td> <td>120.00</td> <td>35.00</td> <td>60.00</td> <td>3.50</td> <td>1.730</td> </tr> <tr> <td>C-941</td> <td>69.85</td> <td>44.45</td> <td>38.10</td> <td>3.18</td> <td>1.330</td> </tr> </tbody> </table>	Sec. No.	A	B	C	D	KG./M	C-939	63.50	31.80	25.40	3.18	1.036	C-943	80.00	15.00	40.00	4.00	1.102	C-942	88.90	44.45	44.45	3.18	1.500	C-940	120.00	35.00	60.00	3.50	1.730	C-941	69.85	44.45	38.10	3.18	1.330
Sec. No.	A	B	C	D	KG./M																																
C-939	63.50	31.80	25.40	3.18	1.036																																
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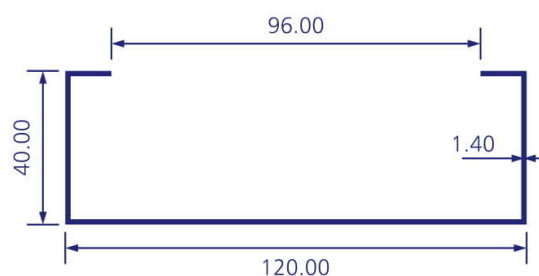
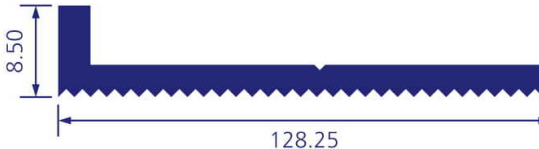
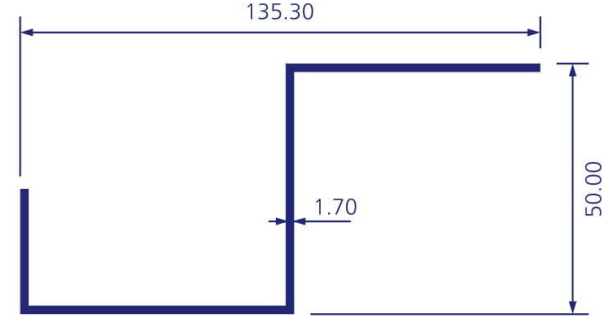
Miscellaneous

<p>C-1016 <span style="float: right;">0.635 KG./M.</span></p> 	<p>C-995 <span style="float: right;">2.690 KG./M.</span></p> 																		
 <table border="1" data-bbox="267 1165 787 1281"> <thead> <tr> <th>Sec. No.</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>KG./M</th> </tr> </thead> <tbody> <tr> <td>C-960</td> <td>81.00</td> <td>40.00</td> <td>45.00</td> <td>3.00</td> <td>1.320</td> </tr> <tr> <td>C-959</td> <td>126.00</td> <td>40.00</td> <td>90.00</td> <td>3.00</td> <td>1.684</td> </tr> </tbody> </table>	Sec. No.	A	B	C	D	KG./M	C-960	81.00	40.00	45.00	3.00	1.320	C-959	126.00	40.00	90.00	3.00	1.684	<p>C-1002 <span style="float: right;">4.811 KG./M.</span></p> 
Sec. No.	A	B	C	D	KG./M														
C-960	81.00	40.00	45.00	3.00	1.320														
C-959	126.00	40.00	90.00	3.00	1.684														
<p>C-963 <span style="float: right;">0.850 KG./M.</span></p> 	<p>C-965 <span style="float: right;">2.510 KG./M.</span></p> 																		

ALL DIMENSIONS ARE IN MM



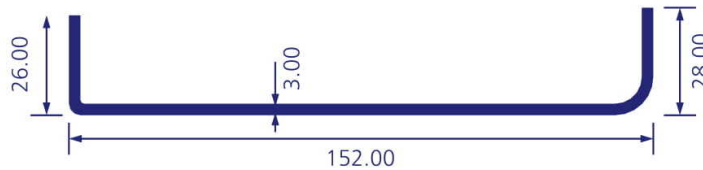
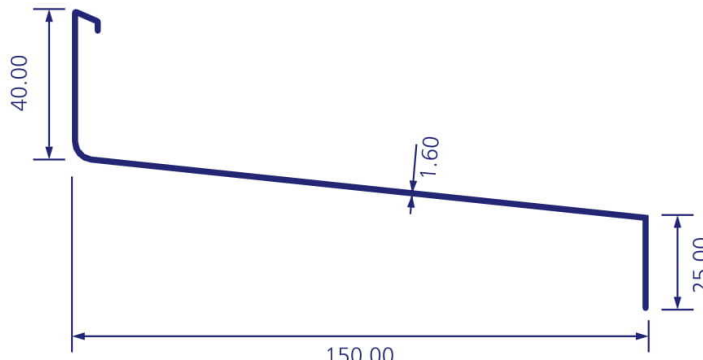
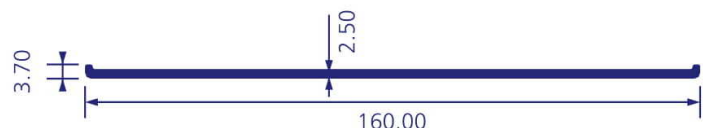
Miscellaneous

<p>C-1001</p> 	<p>0.825 KG./M.</p>
<p>C-951</p> 	<p>0.965 KG./M.</p>
<p>C-994</p> 	<p>0.951 KG./M.</p>

ALL DIMENSIONS ARE IN MM



Miscellaneous

<p>C-887</p>	<p>1.586 KG./M.</p>  <p>26.00 3.00 152.00 28.00</p>
<p>C-885</p>	<p>0.946 KG./M.</p>  <p>40.00 1.60 150.00 25.00</p>
<p>C-1004</p>	<p>1.090 KG./M.</p>  <p>3.70 2.50 160.00</p>

ALL DIMENSIONS ARE IN MM



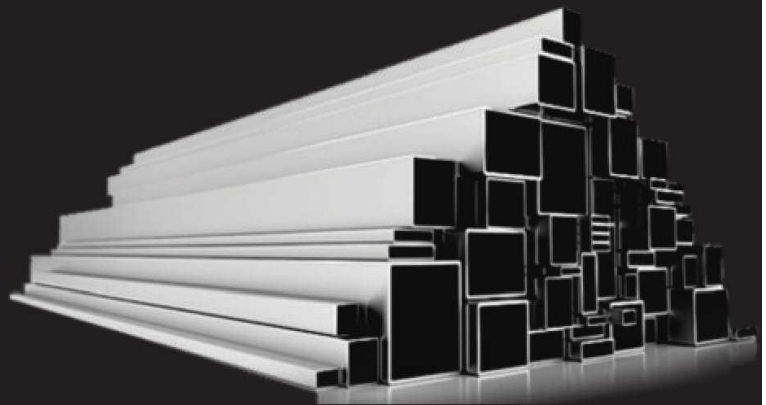


**INDO ALUSYS INDUSTRIES LIMITED**

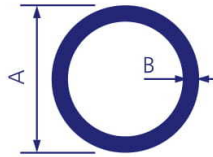
(Formerly Mahavir Aluminium Limited)

Superior Technology Superior Solutions

# Aluminium **Tubes**



## Round Tube



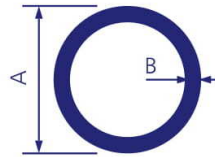
Sec. No.	A	B	KG./M
B-239	5.50	1.30	0.046
B-307	5.50	1.45	0.050
B-180	5.70	1.20	0.045
B-363	6.00	1.00	0.043
B-397	6.00	1.00	0.043
B-348	6.30	1.00	0.045
B-422	6.35	1.00	0.045
B-421	6.60	1.20	0.055
B-315	7.20	1.40	0.069
B-216	7.80	0.90	0.052
B-461	7.94	0.75	0.046
B-153	7.94	1.27	0.070
B-178	8.00	1.00	0.060
B-173	8.00	1.00	0.059
B-203	8.00	1.00	0.060
B-333	8.00	1.00	0.060
B-352	8.00	1.00	0.060
B-171	8.00	1.20	0.069
B-450	8.00	2.50	0.117
B-316	8.30	1.45	0.084
B-356	8.40	0.80	0.056
B-191	8.50	1.20	0.075
B-182	8.70	2.55	0.135
B-362	9.20	0.80	0.056
B-218	9.20	1.20	0.082
B-474	9.30	1.25	0.085
B-193	9.50	1.50	0.102
B-148	9.52	1.20	0.084
B-112	9.52	1.22	0.086
B-114	9.52	1.35	0.093
B-113	9.52	1.63	0.110
B-204	9.60	1.60	0.108
B-2012	9.60	0.90	0.066
B-215	10.00	1.00	0.076
B-447	10.00	2.10	0.141

Sec. No.	A	B	KG./M
B-351	10.50	2.00	0.145
B-317	10.80	1.40	0.112
B-217	11.00	1.50	0.121
B-261	12.00	0.80	0.076
B-121	12.00	1.00	0.093
B-122	12.00	1.00	0.093
B-452	12.00	1.10	0.102
B-435	12.00	1.80	0.156
B-475	12.45	1.45	0.135
B-457	12.50	1.20	0.115
B-196	12.60	2.45	0.212
B-115	12.70	0.75	0.076
B-116	12.70	0.92	0.092
B-174	12.70	1.20	0.117
B-117	12.70	1.22	0.119
B-192	12.70	1.30	0.126
B-119	12.70	1.35	0.129
B-120	12.70	1.35	0.129
B-118	12.70	1.63	0.153
B-176	12.70	2.50	0.216
B-364	12.70	2.55	0.220
B-254	12.80	2.50	0.218
B-308	13.00	1.85	0.174
B-409	14.00	2.00	0.204
B-466	14.00	0.80	0.090
B-247	14.00	2.70	0.259
B-181	14.00	4.35	0.360
B-426	14.00	5.00	0.397
B-253	14.20	3.20	0.300
B-197	14.20	3.25	0.303
B-246	14.50	4.75	0.392
B-448	14.80	2.00	0.217
B-479	14.80	3.89	0.359
B-464	14.90	3.95	0.370
B-349	15.00	1.00	0.118

ALL DIMENSIONS ARE IN MM



## Round Tube



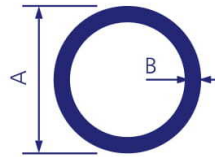
Sec. No.	A	B	KG./M
B-423	15.00	2.00	0.221
B-332	15.00	2.50	0.265
B-342	15.00	2.50	0.265
B-420	15.40	4.20	0.399
B-459	15.40	4.20	0.399
B-226	15.58	1.30	0.160
B-157	15.58	2.47	0.281
B-125	15.88	1.00	0.126
B-183	15.88	1.20	0.150
B-123	15.88	1.22	0.152
B-126	15.88	1.30	0.160
B-172	15.88	1.50	0.185
B-124	15.88	1.30	0.161
B-451	15.90	4.60	0.441
B-469	16.00	2.00	0.238
B-150	16.00	2.20	0.257
B-240	16.00	2.20	0.257
B-331	16.70	5.10	0.505
B-213	16.90	1.80	0.230
B-370	17.00	1.00	0.136
B-151	17.10	2.10	0.267
B-367	17.50	5.00	0.530
B-230	18.00	0.95	0.137
B-429	18.00	1.10	0.156
B-149	18.00	1.80	0.249
B-480	18.50	1.15	0.169
B-403	19.00	1.00	0.153
B-396	19.00	2.00	0.288
B-2003	19.00	6.65	0.697
B-127	19.05	0.92	0.142
B-130	19.05	1.20	0.181
B-301	19.05	1.20	0.181
B-128	19.05	1.22	0.185
B-131	19.05	1.45	0.216
B-227	19.05	1.60	0.238

Sec. No.	A	B	KG./M
B-129	19.05	1.63	0.241
B-258	19.05	2.00	0.288
B-288	19.05	3.20	0.430
B-309	19.60	2.30	0.337
B-140	19.60	2.30	0.337
B-177	19.60	2.50	0.362
B-471/355	20.00	1.00	0.161
B-353	20.00	1.80	0.278
B-318	20.00	4.50	0.592
B-156	20.19	2.91	0.427
B-225	20.40	2.20	0.340
B-369	21.00	1.00	0.170
B-152	21.50	2.50	0.403
B-241	21.50	2.50	0.403
B-433	21.50	4.50	0.649
B-470	21.65	3.55	0.545
B-132/L	22.00	0.75	0.135
B-132/H	22.00	0.95	0.169
B-220	22.00	1.00	0.178
B-424	22.00	1.00	0.178
B-133	22.00	1.25	0.221
B-347	22.00	3.15	0.504
B-142	22.00	3.90	0.577
B-302	22.20	2.10	0.358
B-222	22.22	1.60	0.280
B-233	22.74	1.60	0.287
B-224	23.30	2.40	0.425
B-305	23.40	2.20	0.395
B-212	23.70	2.00	0.370
B-431	24.00	0.80	0.157
B-221	24.00	1.05	0.205
B-251	24.00	1.30	0.250
B-259	24.00	1.74	0.328
B-250	24.00	2.75	0.496
B-206	24.50	0.85	0.172

ALL DIMENSIONS ARE IN MM



## Round Tube



Sec. No.	A	B	KG./M
B-223	24.80	6.15	0.972
B-135	25.00	0.90	0.174
B-404	25.00	1.20	0.242
B-104	25.00	1.70	0.360
B-260	25.00	1.78	0.356
B-134	25.00	2.00	0.390
B-434	25.00	4.50	0.782
B-195	25.00	6.50	1.020
B-476	25.10	1.40	0.281
B-375	25.20	1.60	0.320
B-376	25.20	1.90	0.376
B-236	25.20	6.00	0.978
B-238	25.20	6.40	1.021
B-229	25.40	1.00	0.208
B-136	25.40	1.00	0.206
B-136/H	25.40	1.22	0.250
B-137	25.40	1.27	0.260
B-147	25.40	1.63	0.328
B-260	25.40	1.78	0.356
B-263	25.40	2.03	0.402
B-219	25.40	3.25	0.610
B-303	25.40	2.10	0.415
B-210	25.40	2.10	0.415
B-304	25.40	3.10	0.586
B-361	25.40	5.00	0.867
B-354	25.60	2.55	0.498
B-358	26.00	4.00	0.747
B-482	26.00	7.25	1.153
B-2011	26.00	7.90	1.213
B-401	26.00	9.50	1.330
B-283	26.40	2.20	0.451
B-306	26.40	3.20	0.629
B-477	27.00	1.10	0.242
B-320	27.00	2.50	0.520
B-232	27.20	1.60	0.348

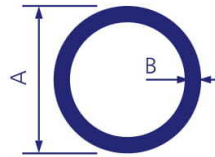
Sec. No.	A	B	KG./M
B-294	28.00	1.50	0.337
B-105	28.00	1.70	0.379
B-310	28.00	3.00	0.635
B-478	28.50	2.00	0.450
B-161	28.60	1.20	0.278
B-163	28.60	1.30	0.301
B-141	28.60	3.30	0.708
B-340	28.80	2.20	0.497
B-252	29.00	2.50	0.561
B-231	29.20	1.60	0.375
B-207	29.50	1.00	0.245
B-165	30.00	1.10	0.270
B-293	30.00	1.50	0.363
B-228	30.00	1.60	0.385
B-159	30.00	1.70	0.407
B-329	30.00	2.50	0.587
B-360	30.00	4.00	0.883
B-417	30.00	5.55	1.151
B-200	31.00	3.00	0.712
B-311	31.00	3.50	0.816
B-211	31.50	3.00	0.725
B-139	31.75	1.30	0.336
B-242	31.75	3.00	0.731
B-277	31.75	3.20	0.775
B-338	32.00	1.70	0.436
B-2002	32.00	1.50	0.388
B-432	32.00	2.00	0.509
B-198	32.00	2.00	0.509
B-145	32.00	3.50	0.846
B-418	32.00	4.85	1.117
B-319	32.00	5.50	1.234
B-234	32.20	8.85	1.752
B-166	32.50	3.50	0.910
B-341	33.30	2.75	0.712
B-330	33.30	3.55	0.895

ALL DIMENSIONS ARE IN MM





## Round Tube



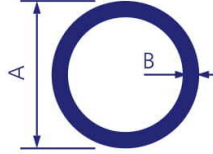
Sec. No.	A	B	KG./M
B-339	34.00	2.20	0.594
B-321	34.90	3.275	0.878
B-103	35.00	1.70	0.504
B-455	35.00	2.20	0.612
B-393	35.00	5.00	1.272
B-446	35.70	4.65	1.225
B-164	36.00	1.20	0.353
B-201	36.00	3.00	0.840
B-312	36.00	4.00	1.085
B-278	36.00	4.00	1.085
B-143	37.00	4.00	1.119
B-284	37.00	4.00	1.119
B-102	38.00	1.70	0.548
B-472	38.00	7.50	1.940
B-144	38.00	2.00	0.610
B-167	38.00	3.00	0.890
B-394	38.00	6.50	1.737
B-138/L	38.10	0.85	0.270
B-2007	38.10	0.93	0.294
B-138/H	38.10	1.05	0.330
B-2008	38.10	1.133	0.355
B-2009	38.10	1.404	0.437
B-2010	38.10	1.600	0.495
B-267	38.10	3.96	1.146
B-244	40.00	1.30	0.427
B-416	40.00	1.40	0.458
B-109	40.00	1.70	0.552
B-454	40.00	2.20	0.705
B-162	40.00	2.50	0.795
B-199	40.00	3.00	0.942
B-286	41.00	4.00	1.255
B-486	41.00	4.80	1.474
B-325	41.00	5.50	1.655
B-108	42.00	1.70	0.605
B-419	42.00	6.15	1.870

Sec. No.	A	B	KG./M
B-245	42.00	8.00	2.306
B-266	42.16	3.56	1.165
B-334	42.70	5.95	1.854
B-209	42.85	3.25	1.095
B-406	43.00	12.25	3.195
B-373	43.90	12.95	3.400
B-395	44.00	3.00	1.043
B-485	44.30	5.60	1.838
B-453	45.00	2.20	0.799
B-202	45.00	4.50	1.545
B-313	45.00	5.00	1.695
B-285	45.00	6.10	2.012
B-101	45.00	7.50	2.385
B-190	45.00	9.00	2.746
B-155	46.00	1.70	0.639
B-146	46.00	5.00	1.738
B-390	46.00	5.50	1.890
B-489	46.00	14.50	3.874
B-365	46.45	3.61	1.978
B-436	46.80	4.00	1.452
B-467	48.00	1.00	0.399
B-170	48.00	4.00	1.493
B-271	48.00	8.50	2.846
B-473	48.00	8.50	2.846
B-463	48.26	3.68	1.393
B-280	48.41	4.47	1.665
B-2004	49.00	1.50	0.604
B-168	49.80	2.70	1.078
B-243	50.00	1.525	0.627
B-107	50.00	1.90	0.775
B-179	50.00	2.00	0.814
B-160	50.00	3.00	1.196
B-488	50.00	4.00	1.561
B-405	50.00	4.90	1.875
B-481	50.00	5.00	1.909

ALL DIMENSIONS ARE IN MM



Round Tube



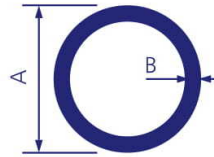
Sec. No.	A	B	KG./M
B-169	50.00	6.00	2.239
B-484	50.00	7.30	2.644
B-493	50.80	1.27	0.534
B-287	50.80	1.60	0.668
B-377	50.80	1.65	0.688
B-372	50.80	2.00	0.830
B-290	50.80	2.50	1.024
B-281	50.80	3.20	1.291
B-237	50.80	3.20	1.282
B-343	50.80	6.35	2.394
B-295	50.80	12.70	4.102
B-483	53.40	4.80	1.979
B-270	54.00	10.00	3.730
B-106	55.00	1.90	0.856
B-391	56.00	7.50	3.850
B-214	56.50	6.40	2.718
B-2001	57.00	1.50	0.706
B-322	57.00	3.00	1.374
B-392	57.00	6.75	2.877
B-328	57.00	14.50	5.225
B-158	60.00	1.90	0.936
B-175	60.00	3.00	1.450
B-346	60.00	5.00	2.332
B-235	60.30	3.05	1.481
B-327	60.30	10.50	4.433
B-468	60.30	10.50	4.433
B-282	60.33	1.63	0.811
B-2006	63.00	2.0	1.035
B-345	63.00	3.00	1.527
B-498	63.50	1.27	0.670
B-460	63.50	3.00	1.540
B-359	65.00	2.00	1.069
B-462	68.00	16.50	7.208
B-264	70.00	1.00	0.585
B-269	70.00	2.00	1.154
B-368	70.00	5.00	2.757
B-208	72.00	9.00	4.815

Sec. No.	A	B	KG./M
B-492	75.00	2.00	1.237
B-491	75.00	3.00	1.831
B-398	75.00	6.00	3.511
B-292	75.00	8.50	4.792
B-487	76.00	1.70	1.071
B-494	76.20	1.27	0.807
B-289	76.20	3.25	2.010
B-265	77.00	3.00	1.885
B-262	80.80	2.00	1.337
B-465	80.00	8.00	4.886
B-350	81.00	5.00	3.223
B-374	81.20	2.50	1.669
B-490	81.20	16.10	8.890
B-439	83.80	3.50	2.384
B-335	85.10	2.80	1.954
B-438	86.50	3.25	2.295
B-428	88.00	3.00	2.163
B-268	88.00	4.00	2.848
B-499	88.90	1.27	0.943
B-274	88.90	5.50	3.888
B-324	82.40	3.10	2.085
B-323	90.00	1.50	1.125
B-366	90.00	3.00	2.214
B-437	94.00	2.90	2.241
B-273	100.00	2.50	2.067
B-275	100.00	5.00	4.029
B-458	100.00	6.00	4.784
B-440	101.00	6.50	5.210
B-495	101.60	1.27	1.080
B-408	102.00	3.00	2.519
B-291	110.00	8.50	7.314
B-456	112.00	3.50	3.221
B-427	112.50	6.00	5.960
B-371	113.00	6.00	5.446
B-427	113.00	6.50	5.872
B-430	114.00	3.00	2.825
B-276	125.00	5.00	5.092

ALL DIMENSIONS ARE IN MM



## Round Tube



Sec. No.	A	B	KG./M
B-314	125.00	10.00	9.750
B-496	127.00	1.32	1.410
B-344	127.00	3.00	3.156
B-502	130.50	2.00	2.179
B-426	140.00	5.50	6.275
B-337	145.00	2.50	3.020

Sec. No.	A	B	KG./M
B-336	150.00	2.50	3.127
B-425	150.00	3.00	3.740
B-449	150.00	6.60	8.028
B-497	152.40	1.77	2.260
B-501	175.00	10.00	13.988
B-500	200.00	9.50	15.343

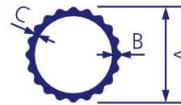
## Miscellaneous Tube

### Hexagonal (Hollow)



Sec. No.	A	ØB	KG./M
B-804	18.80	11.40	0.556
B-927	19.00	8.80	0.680
B-918	24.00	12.50	1.015
B-888	27.00	17.00	1.092
B-890	27.00	19.00	0.839
B-824	27.00	19.75	0.877
B-778	27.00	20.50	0.805
B-744	45.00	24.00	3.515

### Fluted



Sec. No.	A	B	C	KG./M
B-723	18.00	0.65	0.42	0.078
B-741	19.05	1.15	0.65	0.135
B-742	19.05	1.40	0.51	0.135
B-732	20.30	1.95	1.15	0.240
B-724	23.00	0.80	0.50	0.122
B-730	23.00	0.90	0.60	0.140
B-956	24.85	1.325	1.185	0.267
B-738	25.00	1.50	0.70	0.221
B-733	25.00	2.00	1.20	0.346
B-739	25.00	2.50	2.00	0.425
B-973	25.00	2.45	1.65	0.390
B-743	25.40	1.15	0.65	0.184
B-743/L	25.40	1.35	0.46	0.176
B-729	28.00	1.50	0.80	0.259
B-737	28.00	1.48	0.78	0.256

### Round-Tube (Hex.I.D.)

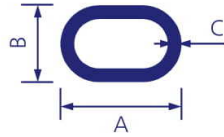


Sec. No.	A	ØB	KG./M
B-859	24.40	18.20	0.489
B-858	27.00	20.00	0.610
B-891	35.00	10.00	2.364

ALL DIMENSIONS ARE IN MM

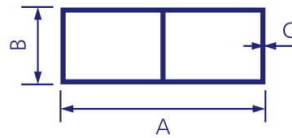


Miscellaneous Tube



Sec. No.	A	B	C	KG/M
B-916	13.50	9.00	2.00	0.167
B-779	14.20	9.00	1.60	0.132
B-897	15.00	10.50	2.25	0.209
B-907	16.00	10.50	2.25	0.224
B-794	24.00	11.00	1.60	0.245
B-817	65.00	19.70	2.50	0.978

B-357 0.417 KG./M.



Sec. No.	A	B	C	KG/M
B-558	95.00	24.00	1.20	0.826
B-560	100.00	20.00	1.40	0.951



ALL DIMENSIONS ARE IN MM



## Rectangular Tube



Sec. No.	A	B	C	KG/M
B-1038	16.80	11.50	1.50	0.205
B-590	17.00	15.00	1.50	0.235
B-1006	20.00	10.00	1.00	0.151
B-508	20.00	10.00	1.50	0.219
B-1008	20.00	15.00	1.80	0.305
B-572	24.60	14.00	1.30	0.253
B-512	25.00	10.00	1.50	0.262
B-513	25.00	19.00	1.00	0.226
B-521	25.00	19.00	1.50	0.332
B-507	25.40	12.70	1.45	0.275
B-1002	30.00	15.00	1.20	0.276
B-554	30.00	15.00	1.50	0.341
B-573	30.10	20.00	1.30	0.334
B-586	34.50	30.00	1.50	0.498
B-1028	35.00	9.85	1.50	0.339
B-584	35.00	15.00	1.80	0.451
B-528	36.00	24.00	0.70	0.221
B-526	36.00	24.00	1.60	0.490
B-506	36.00	24.00	2.00	0.605
B-577	38.10	19.05	1.60	0.466
B-527	38.10	25.40	1.50	0.490
B-1051	38.10	25.40	2.00	0.637
B-505	40.00	10.00	1.60	0.405
B-567	40.00	13.50	1.00	0.278
B-1012	40.00	15.00	1.80	0.500
B-525	40.00	20.00	1.15	0.358
B-557	40.00	20.00	1.80	0.548
B-1024	40.00	20.00	2.00	0.605
B-2013	40.00	20.00	3.00	0.875
B-591	42.00	35.00	2.00	0.788
B-585	46.50	23.50	0.90	0.332
B-522	48.00	24.00	0.80	0.304
B-1046	48.00	24.00	0.85	0.323

Sec. No.	A	B	C	KG/M
B-503	50.00	20.00	1.50	0.543
B-595	50.00	20.00	2.00	0.713
B-589	50.00	20.00	3.15	1.084
B-536	50.00	25.00	0.83	0.329
B-1057	50.00	25.00	1.20	0.470
B-524	50.00	25.00	1.25	0.489
B-1058	50.00	25.00	1.365	0.533
B-524/SPL	50.00	25.00	2.00	0.767
B-1059	50.00	25.00	2.42	0.917
B-1023	50.00	34.00	1.80	0.781
B-1042	50.00	38.00	2.00	0.907
B-523	50.80	25.00	1.50	0.589
B-1054	50.80	25.40	2.00	0.780
B-575	50.80	25.40	3.20	1.206
B-515	50.80	38.10	3.05	1.370
B-568	54.00	10.90	1.20	0.405
B-1031	60.00	30.00	2.00	0.929
B-553	60.00	40.00	2.00	1.037
B-1003	61.50	52.00	3.00	1.742
B-1047	62.00	25.00	0.85	0.391
B-533	62.00	25.00	0.90	0.414
B-510	62.00	36.00	0.80	0.416
B-516	62.00	36.00	3.18	1.573
B-1045	62.00	37.00	0.80	0.420
B-537	62.00	37.00	1.00	0.525
B-535	62.50	37.00	1.45	0.756
B-509	63.50	38.10	2.00	1.054
B-592	65.00	20.00	1.50	0.665
B-534	65.00	25.00	1.30	0.614
B-1033	65.00	28.00	2.50	1.188
B-1061	69.00	26.00	1.50	0.745
B-1015	69.50	33.00	4.00	2.041
B-1056	70.00	20.00	1.50	0.705

ALL DIMENSIONS ARE IN MM



## Rectangular Tube



Sec. No.	A	B	C	KG/M
B-1055	70.00	20.00	2.00	0.929
B-530	72.00	24.00	0.80	0.408
B-545	72.00	42.00	1.10	0.661
B-529	73.00	24.50	1.55	0.802
B-1013	73.00	24.50	1.80	0.913
B-538	73.00	25.00	1.00	0.518
B-1053	73.00	33.00	1.50	0.834
B-1001	75.00	25.00	2.00	1.037
B-1032	75.00	25.00	3.00	1.523
B-1036	75.00	65.00	3.00	1.171
B-1037	76.00	35.00	2.00	1.156
B-1039	76.00	50.00	2.00	1.318
B-565	76.00	50.00	3.00	1.944
B-579	76.20	25.40	3.25	1.669
B-569	76.20	25.40	3.25	1.669
B-580	76.20	38.10	3.20	1.865
B-576	76.20	50.80	3.20	2.084
B-1014	78.40	65.00	1.80	1.358
B-1019	80.00	20.00	3.00	1.523
B-548	80.00	40.00	1.20	0.762
B-511	81.00	36.00	0.80	0.498
B-514	81.00	38.00	2.90	1.772
B-517/L	81.25	38.10	1.55	0.972
B-517	81.25	38.10	2.64	1.630
B-1060	81.25	38.10	2.17	1.348
B-539	82.00	37.00	1.00	0.632
B-542	82.00	37.00	1.30	0.817
B-593	88.00	60.00	2.00	1.555
B-1048	92.00	25.00	1.20	0.743
B-1009	93.00	40.00	1.80	1.258
B-588	93.50	51.60	2.00	1.524
B-551	100.00	20.00	1.80	1.131
B-559	100.00	25.00	1.00	0.664
B-582	100.00	25.00	1.35	0.892

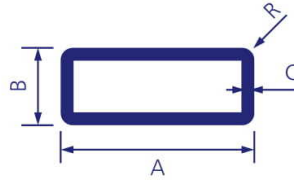
Sec. No.	A	B	C	KG/M
B-1026	100.00	25.00	2.00	1.307
B-540	100.00	40.00	1.20	0.892
B-543	100.00	40.00	1.60	1.182
B-570	100.00	40.00	2.00	1.469
B-547	100.00	50.00	1.20	0.956
B-581	100.00	50.00	2.00	1.577
B-556	100.00	50.00	2.50	1.957
B-564	100.00	50.00	3.00	2.335
B-550	100.00	50.00	3.50	2.702
B-552	100.00	50.00	5.00	3.780
B-549	100.00	60.00	4.00	3.283
B-561	100.00	62.50	2.00	1.712
B-532	100.60	25.00	1.55	1.020
B-1043	101.60	44.75	3.00	2.274
B-541	101.60	44.45	1.60	1.235
B-546	101.60	44.75	2.50	1.908
B-519	101.60	44.75	2.50	1.908
B-578	101.60	50.80	3.20	2.525
B-1011	103.40	25.00	1.60	1.082
B-587	105.00	30.00	1.40	1.000
B-566	105.00	30.00	1.80	1.277
B-1022	105.00	75.00	1.80	1.715
B-1027	115.00	25.00	2.00	1.469
B-1025	115.00	25.00	3.00	2.171
B-1018	115.00	57.50	2.00	1.820
B-563	120.00	30.00	1.80	1.423
B-1044	120.00	60.00	1.50	1.434
B-1007	120.00	60.00	5.50	5.019
B-518	125.00	25.00	1.52	1.206
B-1052	125.00	25.00	3.00	2.333
B-520	125.00	36.00	1.52	1.295
B-562	127.00	38.10	2.00	1.740
B-571	127.00	44.50	3.25	2.896
B-1016	135.00	35.00	1.60	1.442

ALL DIMENSIONS ARE IN MM





Rectangular Tube (Round Corner)



Sec. No.	A	B	C	R	KG./M
B-594	39.23	29.20	1.00	1.50	0.354
B-895	39.23	29.20	1.00	1.50	0.354
B-583	40.00	20.00	1.80	1.00	0.548
B-887	45.00	20.00	1.00	1.00	0.339
B-1004	50.00	25.00	1.00	1.00	0.392

Sec. No.	A	B	C	R	KG./M
B-1005	53.00	28.00	1.00	1.00	0.446
B-874	54.00	35.00	2.00	4.00	0.890
B-531	60.00	36.00	1.50	3.10	0.753
B-861	79.70	54.80	4.00	5.00	2.688

B-555 0.280 KG./M.

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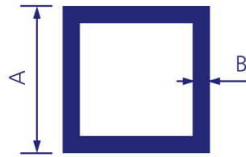
B-1050 2.894 KG./M.

ALL DIMENSIONS ARE IN MM





## Square Tube



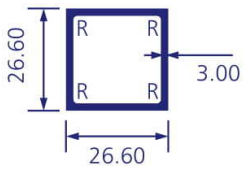

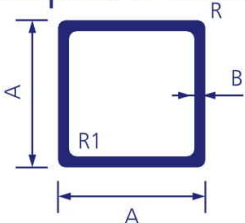
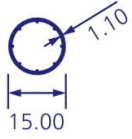
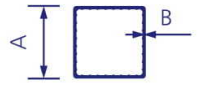

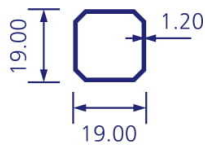
Sec. No.	A	B	KG./M
B-610	12.70	0.75	0.097
B-612	12.70	1.22	0.152
B-613	12.70	1.50	0.181
B-680	12.70	3.25	0.322
B-653	15.00	1.42	0.208
B-654	15.20	2.00	0.286
B-690	15.85	1.20	0.190
B-693	16.00	1.00	0.162
B-632	17.50	1.20	0.211
B-633/L	18.00	0.80	0.167
B-633	18.00	1.22	0.222
B-652	18.00	0.90	0.166
B-617	19.05	1.15	0.222
B-615	19.05	1.20	0.231
B-614	19.05	1.22	0.235
B-616	19.05	1.55	0.292
B-611/683	20.00	2.00	0.388
B-672	23.00	0.90	0.215
B-697	23.00	1.00	0.238
B-698	23.00	1.07	0.253
B-634	24.00	0.80	0.200
B-630/L	24.00	0.80	0.200
B-639	24.00	0.95	0.236
B-630	24.00	1.27	0.312
B-641	24.00	1.40	0.345
B-636	24.00	1.45	0.353
B-638	24.50	1.20	0.301
B-688	25.00	1.80	0.451
B-655	25.00	2.00	0.497
B-662	25.00	3.00	0.713
B-637	25.40	1.10	0.289
B-664	25.40	1.60	0.412
B-629	25.40	2.41	0.598
B-659	25.40	3.20	0.768
B-670	28.00	0.85	0.249
B-625	30.00	1.50	0.462
B-626	30.00	2.00	0.605
B-1501	30.00	3.00	0.875

Sec. No.	A	B	KG./M
B-628	31.75	1.25	0.412
B-627	31.75	1.40	0.458
B-658	32.00	1.50	0.495
B-618	38.00	1.40	0.553
B-682	38.00	1.90	0.741
B-609	38.00	2.50	0.963
B-657	38.10	3.20	1.206
B-622	40.00	1.00	0.440
B-623	40.00	1.25	0.523
B-640	40.00	1.80	0.742
B-656	44.45	3.20	1.425
B-673	45.00	2.00	0.929
B-642	50.00	1.60	0.837
B-643	50.00	2.00	1.037
B-621	50.00	3.00	1.522
B-660	50.00	4.00	1.987
B-619	50.80	1.45	0.772
B-691	50.80	1.60	0.850
B-620	50.80	2.50	1.304
B-695	50.80	2.80	1.451
B-663	50.80	3.20	1.646
B-676	50.80	4.00	2.022
B-694	58.50	3.00	1.798
B-624	60.00	4.00	2.419
B-674	62.00	2.30	1.483
B-661	62.00	3.28	2.081
B-667	62.00	5.00	3.078
B-675	62.50	2.50	1.620
B-684	63.50	2.40	1.584
B-696	65.00	2.00	1.361
B-635	73.00	1.33	1.029
B-665	76.20	3.25	2.561
B-669	87.00	3.00	2.721
B-668	87.00	5.00	4.428
B-678	93.00	1.80	1.774
B-666	101.60	3.25	3.453
B-689	110.00	3.50	4.026
B-692	125.00	3.50	4.592

ALL DIMENSIONS ARE IN MM



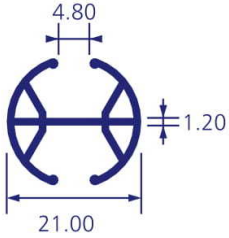
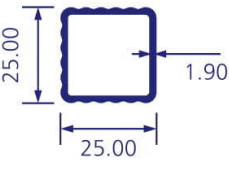
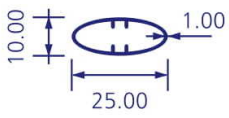
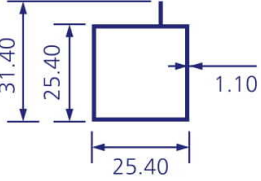
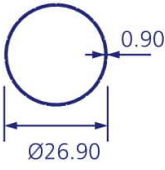
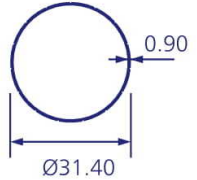
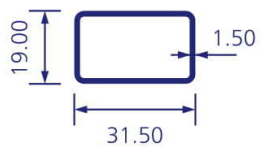
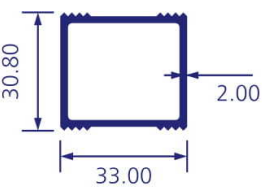
## Miscellaneous Tube

<p>B-677 &amp; 671                      1.257 KG./M.</p> 	<p>B-928                                      0.184 KG./M.</p> 																																																																																																						
<p><b>Square Tube</b></p>  <table border="1" data-bbox="276 924 795 1417"> <thead> <tr> <th>Sec. No.</th> <th>A</th> <th>B</th> <th>R</th> <th>R1</th> <th>KG./M</th> </tr> </thead> <tbody> <tr><td>B-886</td><td>15.00</td><td>1.00</td><td>1.00</td><td>0.00</td><td>0.149</td></tr> <tr><td>B-933</td><td>15.24</td><td>1.14</td><td>0.79</td><td>0.79</td><td>0.167</td></tr> <tr><td>B-937</td><td>15.49</td><td>1.27</td><td>0.79</td><td>0.79</td><td>0.195</td></tr> <tr><td>B-934</td><td>18.42</td><td>1.02</td><td>0.79</td><td>0.00</td><td>0.189</td></tr> <tr><td>B-938</td><td>18.67</td><td>1.27</td><td>0.79</td><td>0.79</td><td>0.239</td></tr> <tr><td>B-935</td><td>24.77</td><td>1.27</td><td>0.79</td><td>0.00</td><td>0.321</td></tr> <tr><td>B-953</td><td>25.00</td><td>3.00</td><td>3.00</td><td>0.50</td><td>0.692</td></tr> <tr><td>B-936</td><td>25.02</td><td>2.03</td><td>0.79</td><td>0.79</td><td>0.504</td></tr> <tr><td>B-939</td><td>25.02</td><td>1.52</td><td>0.79</td><td>0.79</td><td>0.387</td></tr> <tr><td>B-1504</td><td>38.10</td><td>2.235</td><td>0.81</td><td>0.38</td><td>0.864</td></tr> <tr><td>B-961</td><td>50.80</td><td>1.52</td><td>0.813</td><td>0.00</td><td>0.810</td></tr> <tr><td>B-1502</td><td>50.80</td><td>1.524</td><td>0.41</td><td>0.00</td><td>0.810</td></tr> <tr><td>B-962</td><td>63.50</td><td>1.91</td><td>0.813</td><td>0.50</td><td>1.265</td></tr> <tr><td>B-1503</td><td>63.50</td><td>1.854</td><td>0.41</td><td>0.00</td><td>1.234</td></tr> </tbody> </table>	Sec. No.	A	B	R	R1	KG./M	B-886	15.00	1.00	1.00	0.00	0.149	B-933	15.24	1.14	0.79	0.79	0.167	B-937	15.49	1.27	0.79	0.79	0.195	B-934	18.42	1.02	0.79	0.00	0.189	B-938	18.67	1.27	0.79	0.79	0.239	B-935	24.77	1.27	0.79	0.00	0.321	B-953	25.00	3.00	3.00	0.50	0.692	B-936	25.02	2.03	0.79	0.79	0.504	B-939	25.02	1.52	0.79	0.79	0.387	B-1504	38.10	2.235	0.81	0.38	0.864	B-961	50.80	1.52	0.813	0.00	0.810	B-1502	50.80	1.524	0.41	0.00	0.810	B-962	63.50	1.91	0.813	0.50	1.265	B-1503	63.50	1.854	0.41	0.00	1.234	<p>B-847                                      0.139 KG./M.</p>    <table border="1" data-bbox="836 1260 1356 1365"> <thead> <tr> <th>Sec. No.</th> <th>A</th> <th>B</th> <th>KG./M</th> </tr> </thead> <tbody> <tr><td>B-959</td><td>15.62</td><td>0.89</td><td>0.147</td></tr> <tr><td>B-960</td><td>18.90</td><td>0.89</td><td>0.189</td></tr> </tbody> </table>	Sec. No.	A	B	KG./M	B-959	15.62	0.89	0.147	B-960	18.90	0.89	0.189
Sec. No.	A	B	R	R1	KG./M																																																																																																		
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ALL DIMENSIONS ARE IN MM



Miscellaneous Tube

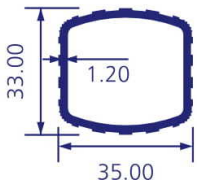
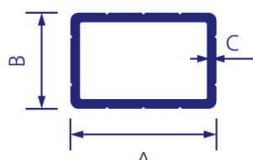
<p>B-834 0.276 KG./M.</p> 	<p>B-855 0.442 KG./M.</p> 
<p>B-905 0.161 KG./M.</p> 	<p>B-755 0.305 KG./M.</p> 
<p>B-926 0.195 KG./M.</p> 	<p>B-925 0.228 KG./M.</p> 
<p>B-951 1.493 KG./M.</p> 	<p>B-849 0.640 KG./M.</p> 

ALL DIMENSIONS ARE IN MM

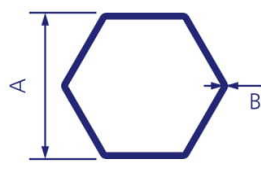


Miscellaneous Tube

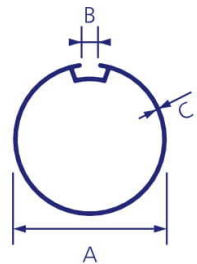
B-838 0.400 KG./M.

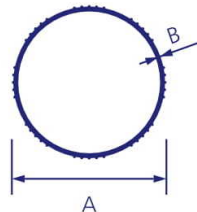
Sec. No.	A	B	C	KG./M
B-876	38.00	25.00	2.50	0.768
B-883	40.00	30.00	2.50	0.697
B-875	38.00	38.00	2.50	0.942



Sec. No.	A	B	KG./M
B-812	38.10	1.80	0.613
B-811	43.64	2.00	0.771



Sec. No.	A	B	C	KG./M
B-896	30.00	3.80	1.00	0.282
B-833	40.00	4.20	1.20	0.421

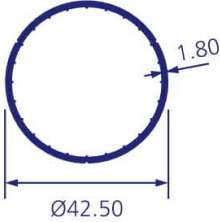
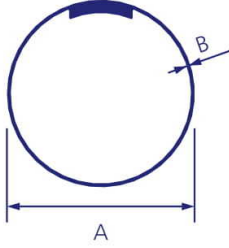
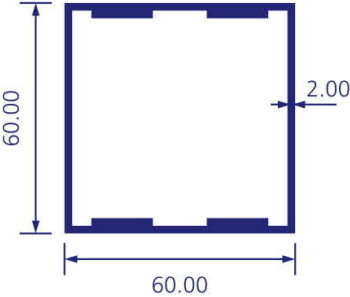
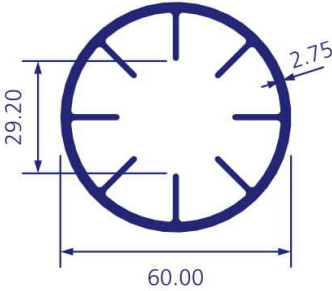
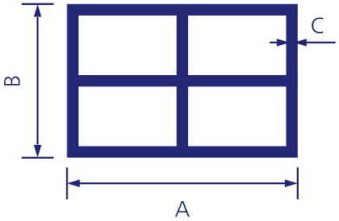
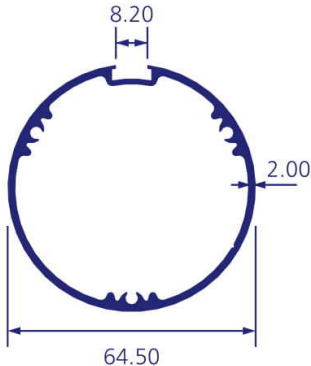


Sec. No.	A	B	KG./M
B-952	40.20	1.30	0.456
B-869	40.40	1.80	0.634

ALL DIMENSIONS ARE IN MM



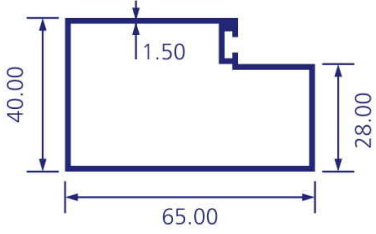
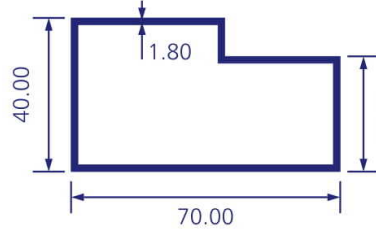
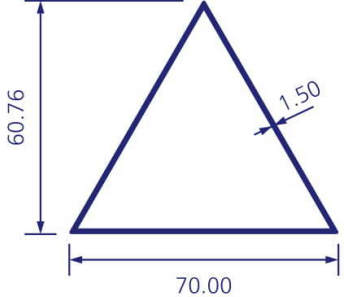
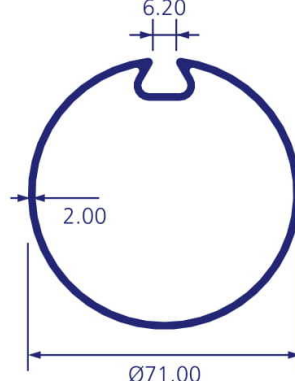
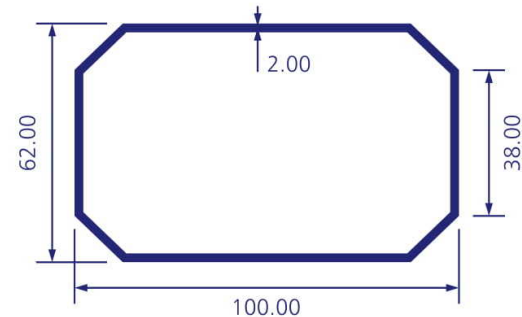
Miscellaneous Tube

<p>B-894 <span style="float: right;">0.636 KG./M.</span></p>  <p style="text-align: center;">Ø42.50</p>	 <table border="1" data-bbox="836 688 1356 787"> <thead> <tr> <th>Sec. No.</th> <th>A</th> <th>B</th> <th>KG./M</th> </tr> </thead> <tbody> <tr> <td>B-964</td> <td>48.80</td> <td>1.40</td> <td>0.634</td> </tr> <tr> <td>B-966</td> <td>48.80</td> <td>1.00</td> <td>0.520</td> </tr> </tbody> </table>	Sec. No.	A	B	KG./M	B-964	48.80	1.40	0.634	B-966	48.80	1.00	0.520			
Sec. No.	A	B	KG./M													
B-964	48.80	1.40	0.634													
B-966	48.80	1.00	0.520													
<p>B-881 <span style="float: right;">1.598 KG./M.</span></p>  <p style="text-align: center;">60.00</p>	<p>B-882 <span style="float: right;">1.777 KG./M.</span></p>  <p style="text-align: center;">60.00</p>															
 <table border="1" data-bbox="267 1638 787 1738"> <thead> <tr> <th>Sec. No.</th> <th>A</th> <th>B</th> <th>C</th> <th>KG./M</th> </tr> </thead> <tbody> <tr> <td>B-931</td> <td>60.00</td> <td>40.00</td> <td>3.00</td> <td>2.211</td> </tr> <tr> <td>B-913</td> <td>38.00</td> <td>38.00</td> <td>1.50</td> <td>0.869</td> </tr> </tbody> </table>	Sec. No.	A	B	C	KG./M	B-931	60.00	40.00	3.00	2.211	B-913	38.00	38.00	1.50	0.869	<p>B-893 <span style="float: right;">1.268 KG./M.</span></p>  <p style="text-align: center;">64.50</p>
Sec. No.	A	B	C	KG./M												
B-931	60.00	40.00	3.00	2.211												
B-913	38.00	38.00	1.50	0.869												

ALL DIMENSIONS ARE IN MM



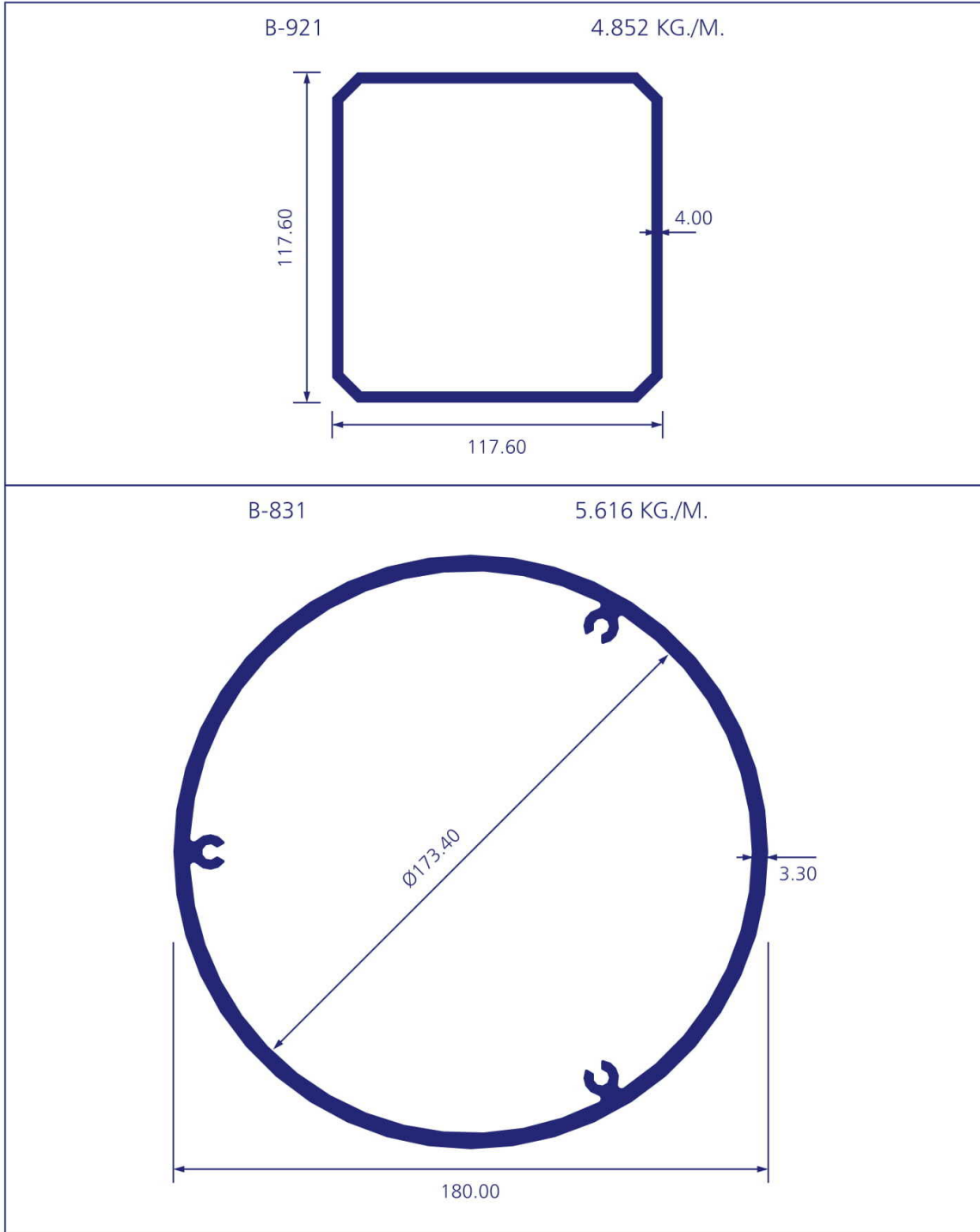
Miscellaneous Tube

<p>B-756 <span style="float: right;">0.870 KG./M.</span></p> 	<p>B-786 <span style="float: right;">1.075 KG./M.</span></p> 																		
<p>B-889 <span style="float: right;">0.826 KG./M.</span></p> 	<p>B-771 <span style="float: right;">1.301 KG./M.</span></p> 																		
<p>B-840 <span style="float: right;">1.560 KG./M.</span></p>  <table border="1" data-bbox="267 1617 787 1711"> <thead> <tr> <th>Sec. No.</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>KG./M</th> </tr> </thead> <tbody> <tr> <td>B-911</td> <td>76.42</td> <td>32.50</td> <td>25.00</td> <td>2.00</td> <td>1.098</td> </tr> <tr> <td>B-912</td> <td>75.00</td> <td>100.00</td> <td>75.00</td> <td>2.00</td> <td>1.712</td> </tr> </tbody> </table>	Sec. No.	A	B	C	D	KG./M	B-911	76.42	32.50	25.00	2.00	1.098	B-912	75.00	100.00	75.00	2.00	1.712	
Sec. No.	A	B	C	D	KG./M														
B-911	76.42	32.50	25.00	2.00	1.098														
B-912	75.00	100.00	75.00	2.00	1.712														

ALL DIMENSIONS ARE IN MM



Miscellaneous Tube



ALL DIMENSIONS ARE IN MM



### **CORPORATE OFFICE**

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Website: [www.indoalusys.com](http://www.indoalusys.com)

### **WORKS**

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Tel.: 01493-220764 / 220870 / 220868 / 220924 / 306500



**For Marketing Enquiry Contact Corporate Office**





## **CORPORATE OFFICE**

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E-mail: [marketing@indoalusys.com](mailto:marketing@indoalusys.com), [info@indoalusys.com](mailto:info@indoalusys.com)  
Website: [www.indoalusys.com](http://www.indoalusys.com)

## **WORKS**

SP-2/333, Industrial Area, Bhiwadi, Distt. Alwar, Rajasthan 301019, India  
Tel.: 01493-220764 / 220870 / 220868 / 220924 / 306500



**For Marketing Enquiry Contact Corporate Office**



# INDO ALUSYS INDUSTRIES LIMITED

(Formerly Mahavir Aluminium Limited)  
Superior Technology Superior Solutions



## ALUMINIUM HARDWARE PROFILES CATALOGUE

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ALL DIMENSIONS ARE IN MM



M/s Indo Alusys Industries Ltd. (IAIL) is formerly M/s Mahavir Aluminium Ltd. IAIL's story is one of innovation, dedication and diversification in a short span of time since our inception in 1982 on our former name. We have already established ourselves as leading manufacturer of Aluminium Extruded Products / Profiles in India. Besides being a pace setter for the industry, we have acquired an able track record of rendering satisfactory services to our valuable customers in India and globally.

## LOCATION

IAIL plant is located 70 kms. from the capital of India, New Delhi in the highly developed Industrial Area of Bhiwadi in the Alwar district of Rajasthan and it's head office at Connaught Place, New Delhi.

## MACHINERY

IAIL has four numbers of Hydraulic Extrusion Presses of 2100 US tonnes, 1650 US tonnes, 1250 US tonnes and 1100 US tonnes capacity. The operations are controlled by Micro-processor based technology and programmable logic control (PLC) system for the above extrusion presses. Furnaces are equipped with fuel efficient regulative burners.

## TECHNOLOGY

The Plant has a most modern Foundry to cast high quality Aluminium alloy billets applying hot top casting process. The alloy composition of the billets are controlled by computerized

spectrometer at the stage of melting and subsequent casting. The plant also have sophisticated extrusion handling systems / equipments which includes an Automatic Extrusion Puller and other related equipments like Lift-off Arm, Walking Beam, Storage / Transfer Conveyer, Saw Conveyer etc. to avoid manual handling to produce scratch free material suitable for subsequent treatments like Anodizing, Electro Coloring and Powder Coating.



## QUALITY

IAIL believes that quality is not checked but an inbuilt process of quality assurance. Quality control measures are applied at every stage of operation during production to ensure "ZERO DEFECT."

Very strict and close control of raw material Aluminium and its alloys is achieved by analyzing and controlling chemical composition through a computerized spectrometer.

Extrusion dies which form the heart of an extrusion process are manufactured in house by computerized CNC Milling and Wire Cut machine and Spark-Erosion-cum-Electrical Discharge machines and subsequently polished through super finish polishing machine to achieve a very high degree of dimensional accuracy, close tolerances and smooth surface finish for its extruded profiles and sections. IAIL offers wide range of extruded profiles for all major end use segments and have approximately, 10,000 dies to cater to high quality extrusion requirements in various industry sectors.

## ANODIZING

IAIL has its in-house facilities for Anodizing and Electro Coloring having Sophisticated Technology acquired from Italy. Anodizing and Electro Coloring is an electro chemical process which gives an anodic thickness of the desired microns as per

the requirement by making available natural (Mat/Satin), very light bronze, medium bronze, dark bronze and black shades. Besides these colours IAIL have processes for various other colours to suit the requirement of its customers with upto 30 microns and length upto 6.2 meters.

## POWDER COATING

IAIL have Powder Coating facility which is the ultimate and latest in Architectural field. Powder Coating of polyester, or epoxy powder paints are excellent in their quality, which contains 100 percent solid material without non-essential or Superfluous components being applied to the objects by one of the well known methods of Electrostatic Charging. Subsequently treated for polymerisation of electrostatically charged powder to form a hard and uniform film length upto 6.2 meters.

## DISTINCTIVE ADVANTAGE

IAIL can supply the material in various colour shades with coating of 60 to 80 microns or more as per requirements of its customers.

- Stable, rich and uniform colour surface.
- Excellent durability after special electro chemical treatment.
- Anti Corrosion and weathering of coloured surface against air pollution, sunrays and humidity.
- No discoloration by ultra-violet rays.



– More than 60 percent of the Aluminium products in the world are produced by this process. This process is acknowledged as better and more economical than any other process.

## MINIMUM ORDER

A minimum quantity of 300 kg in one specification is acceptable in case of sections included in this catalogue. In case of enquiry for a new section, a minimum quantity of 500 kg is acceptable. By “specification” we mean section No., Cut length, alloy and temper, packing etc.

## LENGTH

Extrusions will be supplied in Standard Length of 3.66 meter and/or more or as per requirements.

## WEIGHT

The weight per meter length given in this catalogue is the nominal weight and should be treated as an indication. Actual Weight may vary  $\pm$  10% of the catalogue weight.

## DIMENSIONS & TOLERANCES

Sections will be supplied in our standard dimensional tolerances as per BS 1474:1987 or as per customer's requirement, (IS, EN or ASTM) . Although the dimensions have been indicated in MM in the catalogue, to ensure that the correct section is ordered, the full dimensions and tolerances should be confirmed.

## SHIPPING TOLERANCES

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

## HOW TO ORDER

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

- (a) Section No.
- (b) Alloy & Temper
- (c) Cut Length (in mm)
- (e) Quantity (in kg)
- (d) Surface finish and exposed surface
- (e) End-use
- (f) Mode of packing
- (g) Conductivity, if required



## ISO CERTIFICATION

IAIL has the distinction of being the extrusion Company to have ISO 9001:2008 & ISO 14001:2004 Certification from world renowned certifying Agency DET NORSKE VERITAS (DNV) of NETHERLAND.



**DNV-GL**

### MANAGEMENT SYSTEM CERTIFICATE

Certificate No: 131162-2013-AE-IND-RVA Initial certification date: 08, March, 2013 Valid: 15, November, 2015 - 15, September, 2018

This is to certify that the management system of

**Indo Alusys Industries Limited**  
Works: SP-2 / 333, Industrial Area, Phase - 1, Bhiwadi - 301 019, District: Alwar, Rajasthan, India  
and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Environmental Management System standard:  
**ISO 14001:2004**

This certificate is valid for the following scope:  
**Manufacture of aluminium extrusions and alloy ingots**

Place and date:  
Chennai, 18, November, 2015



The RvA is a signatory to the IAF MLA

For the issuing office:  
DNV GL - Business Assurance  
ROMA, No. 10, GST Road, Alandur,  
Chennai - 600 016, India



Sivadasan Madiyath  
Management Representative

Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid.  
ACCREDITED UNIT: DNV GL Business Assurance B.V., ZWOLSEWEG 1, 2994 LB, BARENDRECHT, NETHERLANDS. TEL: +31102922689.  
assurance.dnvgl.com



**DNV-GL**

### MANAGEMENT SYSTEM CERTIFICATE

Certificate No: 04660-2006-AQ-IND-RVA Initial certification date: 15, November, 2006 Valid: 15, November, 2015 - 15, September, 2018

This is to certify that the management system of

**Indo Alusys Industries Limited**  
Works: SP-2 / 333, Industrial Area, Phase - 1, Bhiwadi - 301 019, District: Alwar, Rajasthan, India  
and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Quality Management System standard:  
**ISO 9001:2008**

This certificate is valid for the following scope:  
**Manufacture of aluminium extrusions and alloy ingots**

Place and date:  
Chennai, 18, November, 2015



The RvA is a signatory to the IAF MLA

For the issuing office:  
DNV GL - Business Assurance  
ROMA, No. 10, GST Road, Alandur,  
Chennai - 600 016, India

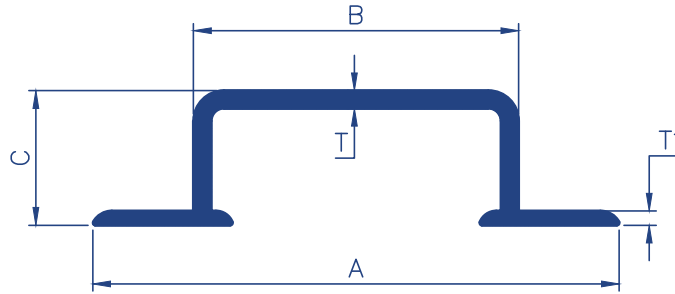


Sivadasan Madiyath  
Management Representative

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ACCREDITED UNIT: DNV GL Business Assurance B.V., ZWOLSEWEG 1, 2994 LB, BARENDRECHT, NETHERLANDS. TEL: +31102922689.  
assurance.dnvgl.com



## 'D' HANDLE



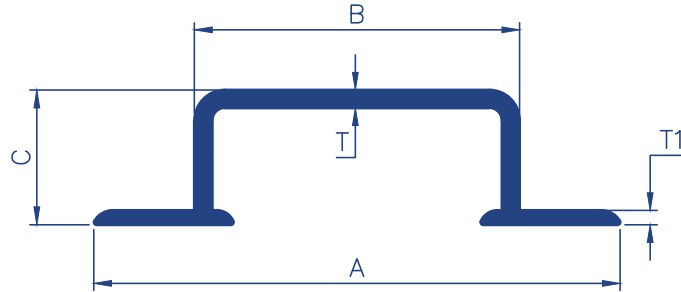
SEC.No.	A	B	C	T	T1	Kg./M.	WT.RANGE KG./12'
D-382	98.00	57.00	24.00	2.40	1.70	0.865	3.000 – 3.150
D-382/H	98.00	57.00	24.00	2.50	1.80	0.885	3.150 – 3.300
D-364	98.00	58.00	24.00	3.15	2.00	1.061	3.700 – 3.900
D-364/H	98.00	58.00	24.00	3.30	2.20	1.080	3.900 – 4.100
D-3670	98.00	60.00	24.00	2.00	1.80	0.750	2.600 – 2.750
D-3670/H	98.00	60.00	24.00	2.20	2.00	0.768	2.750 – 2.900
D-383	118.0	78.00	30.00	2.60	1.70	1.150	4.000 – 4.200
D-383/H	118.0	78.00	30.00	2.75	1.80	1.162	4.200 – 4.400
D-3298	121.0	83.00	29.00	3.50	2.70	1.550	5.600 – 5.850
D-3298/H	121.0	83.00	29.00	3.70	2.90	1.606	5.850 – 6.100
D-3267	122.0	80.50	29.00	2.800	2.20	1.260	4.500 – 4.750
D-3267/H	122.0	80.50	29.00	3.00	2.40	1.309	4.750 – 5.000
D-3663	122.0	83.00	29.00	3.30	2.20	1.340	4.800 – 5.000
D-3663/H	122.0	83.00	29.00	3.50	2.40	1.382	5.000 – 5.300
D-390	122.0	84.00	32.60	3.10	2.40	1.540	5.450 – 5.700
D-390/H	122.0	84.00	32.60	3.25	2.60	1.570	5.700 – 6.000
D-389	122.0	86.00	31.00	2.30	1.80	1.148	4.000 – 4.300
D-389/H	122.0	86.00	31.00	2.50	2.00	1.175	4.300 – 4.500
D-380	123.2	84.40	31.30	3.50	2.80	1.600	5.700 – 5.900
D-380/H	123.2	84.40	31.30	4.00	3.00	1.755	6.400 – 6.700
D-375	126.0	86.00	32.60	3.00	2.30	1.515	5.350 – 5.600
D-375/H	126.0	86.00	32.60	3.20	2.50	1.547	5.600 – 5.900
D-396	126.0	86.00	33.00	4.30	2.80	2.025	7.200 – 7.500
D-396/H	126.0	86.00	33.00	4.55	3.00	2.076	7.500 – 7.800
D-378	126.0	87.00	32.60	3.10	2.80	1.400	5.100 – 5.300
D-378/H	126.0	87.00	32.60	3.30	3.00	1.455	5.300 – 5.500
D-376	126.0	87.00	32.60	3.60	2.40	1.770	6.300 – 6.600
D-376/H	126.0	87.00	32.60	3.80	2.80	1.812	6.600 – 7.000
D-369	128.5	87.00	34.00	3.80	3.80	2.035	7.200 – 7.600
D-369/H	128.5	87.00	34.00	4.00	4.00	2.082	6.600 – 6.900
D-368	128.5	87.00	34.00	4.70	3.70	2.350	8.450 – 8.700
D-368/H	128.5	87.00	34.00	5.00	4.00	2.430	8.700 – 9.000
D-384	137.0	99.00	30.00	3.30	2.80	1.700	6.000 – 6.300
D-384/H	137.0	99.00	30.00	3.50	3.00	1.735	6.300 – 6.600
D-3266	142.0	97.00	29.50	3.00	2.20	1.500	5.400 – 5.600
D-3266/H	142.0	97.00	29.50	3.20	2.50	1.560	5.600 – 5.800
D-3662	145.0	105.0	29.00	3.30	2.30	1.600	5.800 – 6.000
D-3662/H	145.0	105.0	29.00	3.50	2.50	1.648	6.000 – 6.200

ALL DIMENSIONS ARE IN MM





## 'D' HANDLE

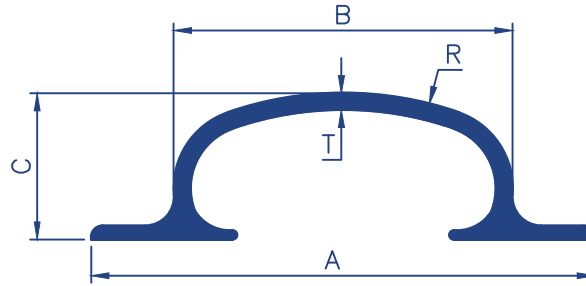


SEC.No.	A	B	C	T	T1	Kg./M.	WT.RANGE KG./12'
D-3299	146.0	106.0	29.00	3.40	2.60	1.760	6.400 - 6.700
D-3299/H	146.0	106.0	29.00	3.70	2.90	1.876	6.700 - 7.000
D-391	146.0	108.0	34.00	3.10	2.60	1.848	6.400 - 6.700
D-391/H	146.0	108.0	34.00	3.30	2.80	1.800	6.700 - 7.000
D-381	147.5	107.6	31.30	3.60	3.00	1.863	6.700 - 6.900
D-381/H	147.5	107.6	31.30	3.80	3.20	1.930	7.000 - 7.200
D-397	148.0	107.0	33.00	4.00	2.80	2.115	7.600 - 7.800
D-397/H	148.0	107.0	33.00	4.15	3.00	2.175	7.800 - 8.000
D-379	148.0	110.0	33.00	2.70	2.00	1.350	4.600 - 4.900
D-379	148.0	110.0	33.00	2.50	1.80	1.300	4.700 - 4.900
D-379/H	148.0	110.0	33.00	2.70	2.00	1.350	4.900 - 5.200
D-388	148.0	110.0	34.00	2.80	2.20	1.569	5.500 - 6.000
D-388	148.0	110.0	34.00	2.60	2.00	1.525	5.450 - 5.650
D-388/H	148.0	110.0	34.00	2.80	2.20	1.570	5.650 - 5.850
D-371	148.0	110.0	34.00	2.80	2.80	1.685	6.000 - 6.200
D-371/H	148.0	110.0	34.00	3.00	3.00	1.746	6.200 - 6.400
D-377	148.0	110.0	34.00	3.70	2.50	2.060	7.400 - 7.600
D-377/H	148.0	110.0	34.00	4.00	2.70	2.130	7.600 - 7.800
D-367	148.0	110.0	34.00	4.30	2.80	2.360	8.400 - 8.650
D-367/H	148.0	110.0	34.00	4.60	3.00	2.430	8.650 - 8.900
D-367	148.0	110.0	34.00	4.60	3.00	2.430	8.700 - 9.000
D-6670	200.0	148.0	34.00	5.10	5.00	3.525	NA

ALL DIMENSIONS ARE IN MM



## 'C' HANDLE

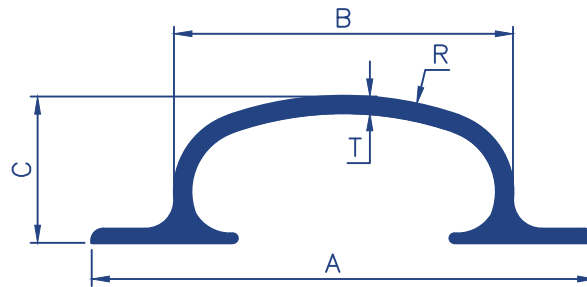


SEC.No.	A	B	C	T	R	Kg./M.	WT.RANGE KG./12'
D-4908	100.0	65.00	28.00	1.55	100.0	0.650	2.350 – 2.550
D-5667	100.0	64.00	27.50	2.75	89.84	1.014	3.650 – 3.800
D-2981	101.0	65.00	28.00	2.00	100.0	0.840	3.000 – 3.200
D-2981/H	101.0	65.00	28.00	2.20	100.0	0.872	3.300 – 3.500
D-3669	100.0	65.00	28.00	1.70	100.0	0.756	2.600 – 2.800
D-3669/H	100.0	65.00	28.00	1.90	100.0	0.790	2.900 – 3.100
D-5221	120.0	80.00	33.00	3.20	90.00	1.315	4.600 – 4.900
D-4971	120.0	82.00	33.00	2.55	90.00	1.127	3.900 – 4.200
D-4267	120.0	82.00	33.00	2.00	90.00	0.948	3.300 – 3.500
D-4267/H	120.0	82.00	33.00	2.20	90.00	0.990	3.600 – 3.800
D-4268	120.0	82.00	33.00	2.50	90.00	1.180	4.200 – 4.400
D-4268/H	120.0	82.00	33.00	2.70	90.00	1.230	4.500 – 4.700
D-4689	120.0	82.00	33.00	1.70	90.00	0.890	3.100 – 3.300
D-4688	120.0	82.00	33.00	2.40	90.00	1.137	4.000 – 4.200
D-6259	121.0	81.00	33.50	2.65	90.00	1.174	4.200 – 4.400
D-3045	122.0	82.00	34.50	2.30	87.20	1.201	4.300 – 4.500
D-3045/H	122.0	82.00	34.50	2.80	87.20	1.399	5.100 – 5.300
D-6244	125.0	81.00	37.00	2.85	90.00	1.351	4.800 – 5.100
D-5223	125.0	83.00	35.00	3.90	90.60	1.720	6.200 – 6.400
D-3057	127.0	84.00	36.50	3.20	87.20	1.645	5.900 – 6.100
D-3057/H	127.0	84.00	36.50	3.50	87.20	1.707	6.200 – 6.400
D-2849	127.0	84.00	36.50	3.00	105.0	1.675	6.000 – 6.200
D-2849/H	127.0	84.00	36.50	3.30	105.0	1.735	6.300 – 6.500
D-421	127.0	85.00	36.50	3.60	105.0	1.870	6.600 – 6.800
D-421/H	127.0	85.00	36.50	3.85	105.0	1.915	6.900 – 7.100
D-6246	127.0	83.00	37.00	3.15	90.00	1.617	5.800 – 6.000
D-6812	127.0	83.00	37.00	2.90	90.00	1.503	5.400 – 5.600
D-7025	127.0	83.00	37.00	2.70	90.00	1.437	5.200 – 5.400
D-5711	128.0	83.20	36.50	3.20	90.20	1.669	6.100 – 6.300
D-2831	128.5	85.00	37.00	3.70	87.00	1.940	6.900 – 7.100
D-2831/H	128.5	85.00	37.00	4.00	87.00	1.984	7.200 – 7.400
D-2797	128.5	86.00	36.50	3.00	86.00	1.445	5.200 – 5.400
D-2797/H	128.5	86.00	36.50	3.50	86.00	1.817	6.500 – 6.700
D-6260	140.0	98.50	35.00	2.55	155.0	1.328	4.750 – 4.950
D-5222	140.0	99.00	33.00	3.10	155.0	1.501	5.400 – 5.600
D-6672	140.0	99.00	33.00	2.65	155.0	1.338	4.800 – 5.050
D-5712	141.0	97.50	37.00	3.50	158.5	1.957	7.000 – 7.300
D-6243	141.5	97.50	37.00	3.40	133.4	1.896	6.800 – 7.000

ALL DIMENSIONS ARE IN MM



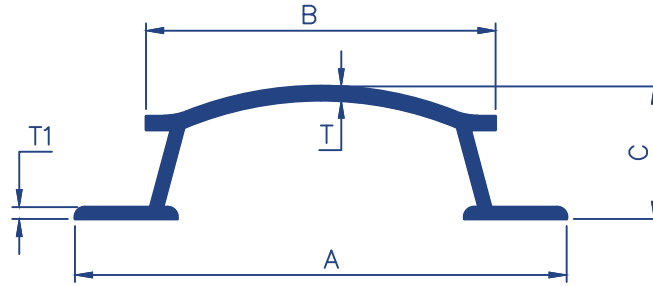
## 'C' HANDLE



SEC.No.	A	B	C	T	R	Kg./M.	WT.RANGE KG./12'
D-6811	141.5	97.50	37.00	3.10	133.4	1.776	6.400 – 6.600
D-7024	141.5	97.50	37.00	2.90	133.4	1.705	6.200 – 6.400
D-2848	141.8	98.00	36.50	3.40	130.0	1.935	6.900 – 7.100
D-2848/H	141.8	98.00	36.50	3.65	130.0	1.992	7.200 – 7.400
D-6245	142.0	98.00	37.00	3.00	133.0	1.617	5.800 – 6.000
D-4691	142.0	104.0	33.00	2.00	155.0	1.138	4.000 – 4.200
D-4970	142.0	104.0	33.00	2.65	155.0	1.348	4.700 – 5.000
D-4690	142.0	104.0	33.00	2.65	155.0	1.373	4.900 – 5.100
D-4265	142.0	104.0	33.00	2.70	155.0	1.420	5.200 – 5.400
D-4265/H	142.0	104.0	33.00	3.00	155.0	1.500	5.500 – 5.700
D-4266	142.0	104.0	33.00	2.40	155.0	1.211	4.200 – 4.400
D-4266/H	142.0	104.0	33.00	2.60	155.0	1.260	4.500 – 4.700
D-3058	143.0	99.00	36.50	3.60	151.0	1.890	6.800 – 7.000
D-3058/H	143.0	99.00	36.50	3.90	151.0	1.957	7.100 – 7.300
D-3046	144.0	104.0	34.50	2.80	151.0	1.600	5.800 – 6.000
D-3046/H	144.0	104.0	34.50	3.10	151.0	1.677	6.100 – 6.300
D-5224	145.0	103.0	35.00	3.90	155.8	1.931	7.000 – 7.200
D-2832	145.0	100.0	35.00	3.80	160.0	2.170	7.800 – 8.000
D-2832/H	145.0	100.0	35.00	4.05	160.0	2.241	8.100 – 8.300
D-2798	146.5	100.0	35.40	3.20	160.0	1.780	6.400 – 6.600
D-2798/H	146.5	100.0	35.40	3.80	160.0	2.084	7.500 – 7.700
D-422	152.4	110.0	35.00	3.70	160.0	2.135	7.800 – 8.000
D-422/H	152.4	110.0	35.00	4.00	160.0	2.190	8.200 – 8.400

ALL DIMENSIONS ARE IN MM

## PALKI HANDLE

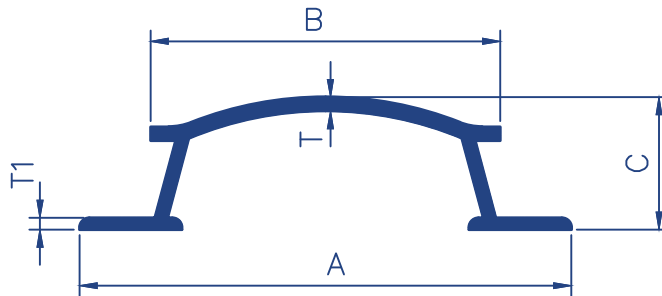


SEC.No.	A	B	C	T	T1	Kg./M.	WT.RANGE KG./12'
D-385	98.00	69.00	25.00	1.80	1.30	0.660	2.400 – 2.500
D-385/H	98.00	69.00	25.00	2.00	1.50	0.738	2.600 – 2.700
D-363	98.00	69.00	25.00	2.50	1.50	0.845	3.000 – 3.200
D-363/H	98.00	69.00	25.00	2.70	1.70	0.920	3.300 – 3.500
D-3671	100.0	69.00	25.00	1.90	1.40	0.720	2.600 – 2.700
D-3671/H	100.0	69.00	25.00	2.10	1.50	0.756	2.700 – 2.900
D-386	118.0	78.00	30.00	2.50	2.00	1.000	4.000 – 4.300
D-386/H	118.0	78.00	30.00	2.80	2.20	1.161	4.100 – 4.500
D-2839	118.5	88.00	32.50	3.60	2.50	1.670	6.000 – 6.200
D-2839/H	118.5	88.00	32.50	3.80	2.70	1.728	6.300 – 6.500
D-3066	123.0	88.50	31.50	2.80	1.80	1.280	4.600 – 4.800
D-3066/H	123.0	88.50	31.50	3.00	2.00	1.323	4.900 – 5.100
D-2841	123.0	88.50	31.50	3.10	2.30	1.500	5.400 – 5.700
D-2841/H	123.0	88.50	31.50	3.30	2.50	1.558	3.100 – 3.300
D-2837	123.5	87.50	32.50	2.20	1.80	1.042	3.700 – 3.900
D-2837/H	123.5	87.50	32.50	2.50	2.00	1.091	4.000 – 4.300
D-393	124.0	88.00	31.75	2.80	1.80	1.245	4.500 – 4.700
D-393/H	124.0	88.00	31.75	3.00	2.05	1.305	4.800 – 5.000
D-370	124.0	88.50	31.75	3.20	2.30	1.500	5.400 – 5.600
D-370/H	124.0	88.50	31.75	4.00	3.00	1.840	6.600 – 6.900
D-395	124.0	88.00	31.75	3.40	2.40	1.540	5.500 – 5.700
D-395/H	124.0	88.00	31.75	3.60	2.60	1.575	5.800 – 6.000
D-372	124.0	90.00	31.75	3.80	2.80	2.030	7.300 – 7.500
D-372/H	124.0	90.00	31.75	4.00	3.00	2.091	7.600 – 7.800
D-2770	124.0	89.00	32.00	3.30	2.20	1.480	5.300 – 5.500
D-2770/H	124.0	89.00	32.00	3.50	2.40	1.530	5.600 – 5.800
D-387	137.0	99.00	30.00	3.30	2.80	1.665	5.800 – 6.000
D-387/H	137.0	99.00	30.00	3.50	3.00	1.600	6.100 – 6.300
D-2838	142.0	103.5	32.50	2.60	1.80	1.250	4.500 – 4.700
D-2838/H	142.0	103.5	32.50	2.80	2.00	1.300	4.800 – 5.000
D-2840	144.0	113.5	32.50	4.00	3.60	1.940	6.900 – 7.100
D-2840/H	144.0	113.5	32.50	4.20	3.80	2.000	7.300 – 7.500
D-2769	145.0	112.5	33.00	3.70	2.80	1.806	6.400 – 6.800
D-2842	145.3	112.6	34.00	3.40	2.40	1.740	6.200 – 6.400
D-2842/H	145.3	112.6	34.00	3.60	2.60	1.784	6.500 – 6.700
D-374	145.5	112.6	34.50	3.80	3.30	2.280	8.200 – 8.400
D-374/H	145.5	112.6	34.50	4.00	3.50	2.365	8.500 – 8.700

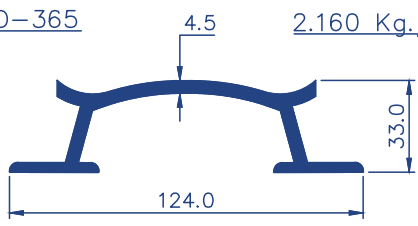
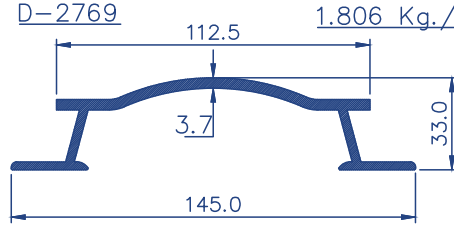
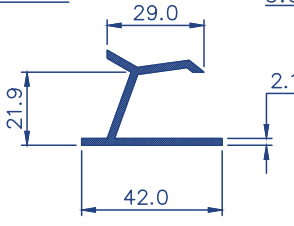
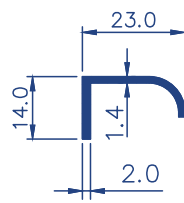
ALL DIMENSIONS ARE IN MM



## PALKI HANDLE

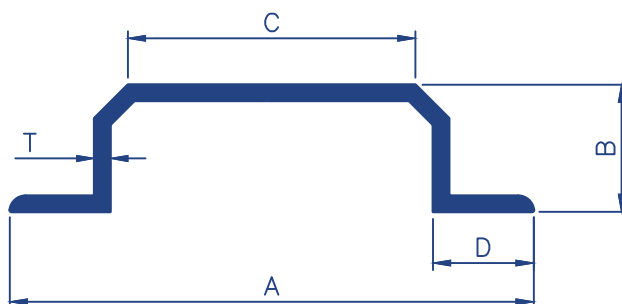


SEC.No.	A	B	C	T	T1	Kg./M.	WT.RANGE KG./12'
D-373	145.5	112.0	33.50	3.30	2.30	1.550	5.600 – 5.800
D-373/H	145.5	112.0	33.50	4.00	3.00	1.609	5.900 – 6.100
D-3065	145.5	112.5	32.00	3.20	2.00	1.560	5.600 – 5.800
D-3065/H	145.5	112.5	32.00	3.40	2.00	1.620	5.900 – 6.100
D-394	146.0	108.0	34.00	3.30	2.80	1.770	6.400 – 6.600
D-394/H	146.0	108.0	34.00	3.50	3.00	1.825	6.700 – 6.900
D-392	146.0	108.0	34.00	3.00	1.90	1.510	5.400 – 5.600
D-392/H	146.0	108.0	34.00	3.20	2.10	1.571	5.700 – 5.900
D-366	151.0	114.0	33.00	4.30	3.30	2.300	8.250 – 8.500
D-366/H	151.0	114.0	33.00	4.50	3.50	2.370	8.600 – 8.850

<p>D-365</p>  <p>WT.RANGE 7.500 TO 8.00 KG./12'</p>	<p>D-2769</p>  <p>WT.RANGE 6.300 TO 6.900 KG./12'</p>
<p><b>SPL</b></p> <p>D-2929</p>  <p>0.528 Kg./M.</p>	<p><b>SPL</b></p> <p>D-313</p>  <p>0.170 Kg./M.</p>

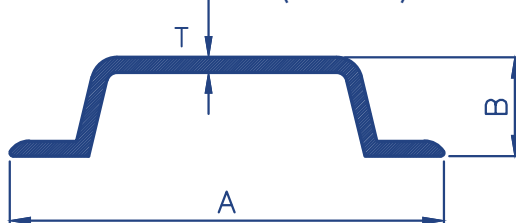
ALL DIMENSIONS ARE IN MM

## 'D' HANDLE



SEC.No.	A	B	C	D	T	Kg./M.	WT.RANGE KG./12'
D-359	83.50	23.80	40.00	19.0	2.00	0.700	2.500 – 2.600
D-359/H	83.50	23.80	40.00	19.0	2.20	0.725	2.700 – 2.800
D-362	83.50	23.80	40.00	19.0	2.80	1.070	3.800 – 4.000
D-362/H	83.50	23.80	40.00	19.0	3.00	1.115	4.100 – 4.300
D-2578	99.00	24.00	69.00	17.3	2.10	0.825	3.000 – 3.100
D-2578/H	99.00	24.00	69.00	17.3	2.30	0.856	3.200 – 3.300
D-4004	103.0	26.50	70.00	19.0	2.40	0.980	3.500 – 3.700
D-4004/H	103.0	26.50	70.00	19.0	2.60	1.026	3.800 – 4.000

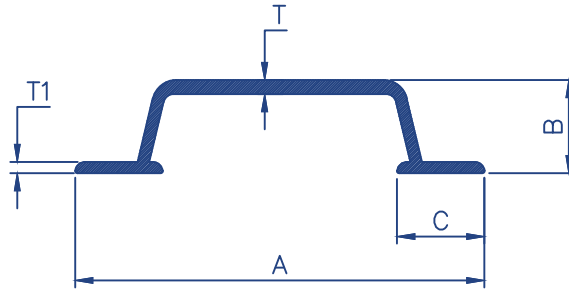
## HANDLE (TAPER)



SEC.No.	A	B	T	Kg./M.	WT.RANGE KG./12'
D-360	98.00	24.00	2.30	0.800	2.900 – 3.000
D-360/H	98.00	24.00	2.50	0.837	3.100 – 3.200
D-361	98.00	24.00	3.30	1.050	3.800 – 4.000
D-361/H	98.00	24.00	3.50	1.090	4.000 – 4.200
D-400	110.0	26.00	3.00	1.188	4.200 – 4.600
D-398	170.0	37.50	4.80	2.900	10.500 – 11.00
D-398/H	170.0	37.50	5.10	3.025	11.000 – 11.60
D-399	150.0	32.50	4.40	2.280	8.100 – 8.500
D-399/H	150.0	32.50	4.60	2.336	8.500 – 8.900

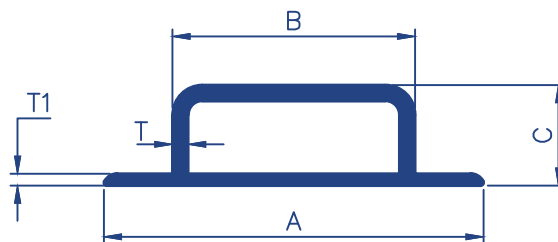
ALL DIMENSIONS ARE IN MM

**TAPER 'D' HANDLE**



SEC.No.	A	B	C	T	T1	Kg./M.	WT.RANGE KG./12'
D-2833	117.3	30.00	26.50	3.80	2.70	1.500	5.400 - 5.600
D-2833/H	117.3	30.00	26.50	4.00	2.90	1.555	5.700 - 5.900
D-2835	120.0	30.50	27.00	3.30	1.90	1.280	4.600 - 4.800
D-2835/H	120.0	30.50	27.00	3.50	2.10	1.324	4.900 - 5.100
D-3055	122.0	30.50	25.50	2.80	2.00	1.200	4.300 - 4.500
D-3055/H	122.0	30.50	25.50	3.00	2.20	1.255	4.500 - 4.800
D-2845	123.0	30.00	26.50	3.80	2.30	1.570	5.600 - 5.800
D-2845/H	123.0	30.00	26.50	4.00	2.50	1.611	5.900 - 6.100
D-2768	126.0	29.00	27.50	3.40	2.50	1.485	5.300 - 5.500
D-2768/H	126.0	29.00	27.50	3.60	2.75	1.530	5.500 - 5.700
D-3056	143.0	30.50	25.70	2.80	2.00	1.400	5.000 - 5.200
D-3056/H	143.0	30.50	25.70	3.00	2.20	1.453	5.400 - 5.600
D-2834	143.0	31.00	27.50	3.70	2.20	1.730	6.200 - 6.400
D-2834/H	143.0	31.00	27.50	4.00	2.40	1.795	6.500 - 6.700
D-2767	144.0	29.00	28.50	3.65	2.80	1.803	6.500 - 6.700
D-2767/H	144.0	29.00	28.50	3.80	3.00	1.850	6.700 - 7.000
D-2836	145.0	30.50	27.50	3.10	2.00	1.525	5.400 - 5.600
D-2836/H	145.0	30.50	27.50	3.40	2.30	1.572	5.700 - 5.900

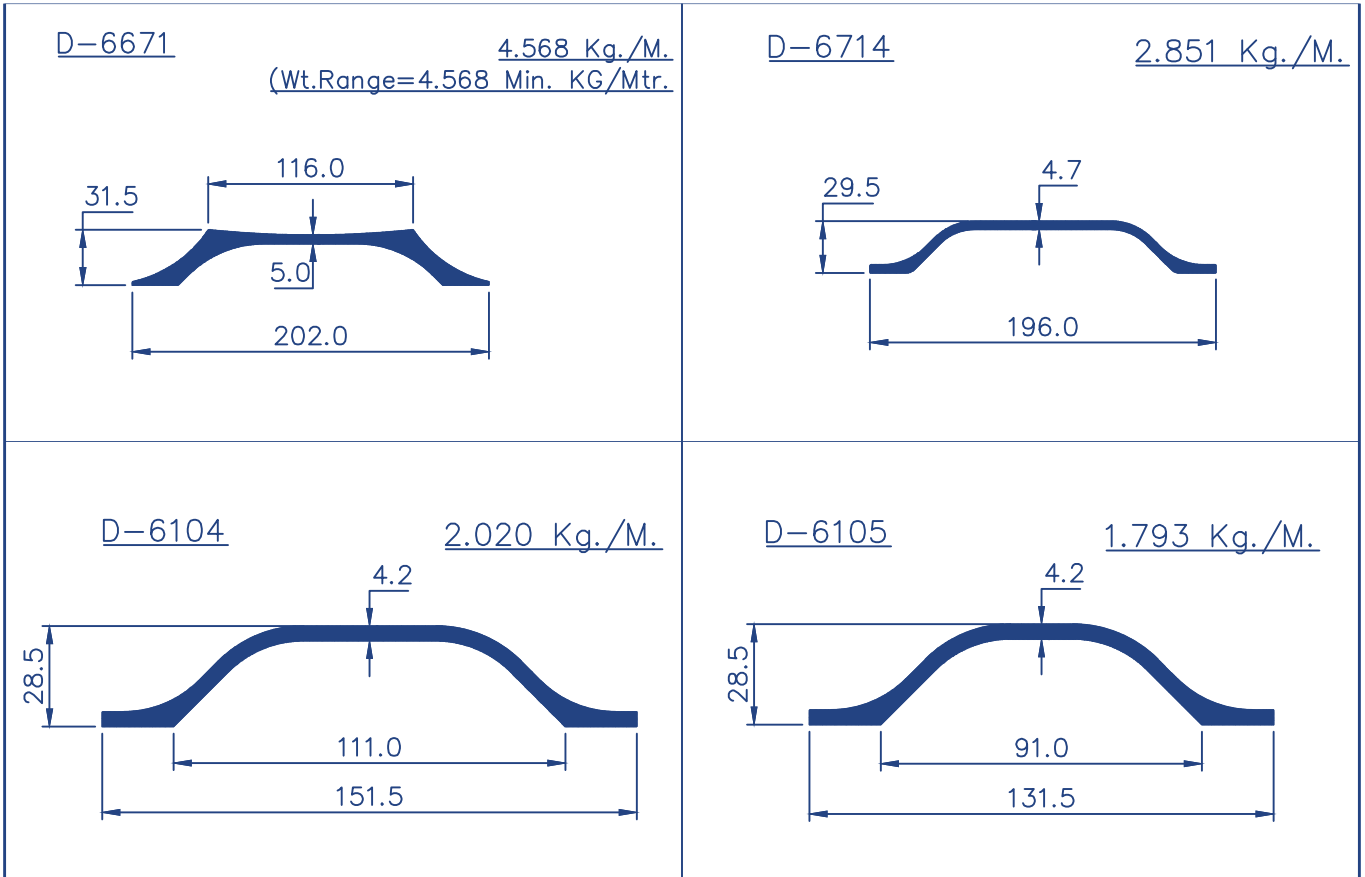
Hollow 'D' Handle



SEC.No.	A	B	C	T	T1	Kg./M.	WT.RANGE KG./12'
D-410	124.0	80.00	32.60	4.50	2.50	2.360	8.200 - 8.500
D-411	145.0	100.0	32.00	4.50	2.50	2.660	9.300 - 9.600

ALL DIMENSIONS ARE IN MM

MISCELLANEOUS HANDLE



ALL DIMENSIONS ARE IN MM





### ALDROP PATTA



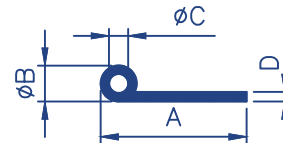
SEC.	A	øB	Kg./M.
D-204	93.00	11.00	0.806
D-216	98.00	12.00	0.945
D-2844	100.00	12.30	0.945
D-202	101.60	13.05	1.077
D-203	101.60	11.00	1.095
D-6153	102.00	11.30	0.610
D-2843	119.00	14.20	1.161
D-2945	121.00	13.75	1.113
D-206	123.00	14.60	1.287
D-3937	124.00	15.60	1.441
D-205	124.00	15.60	1.455
D-3198	128.00	15.60	1.674
D-6254	129.50	18.00	1.717
D-6275	129.50	16.00	1.730
D-6702	129.50	16.00	1.663
D-997	130.50	15.80	1.885
D-201	133.77	16.25	1.735

### HINGES TAPER (SOLID)



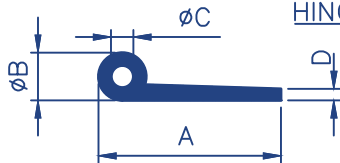
SEC.	A	øB	C	D	Kg./M.
D-160	25.40	6.35	3.18	---	0.255
D-161	37.30	11.10	3.96	5.00	0.596
D-162	36.51	9.52	3.15	4.04	0.467

### HINGES



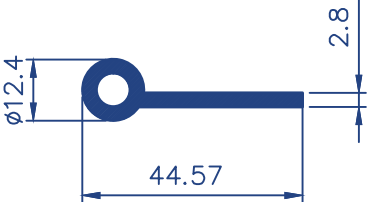
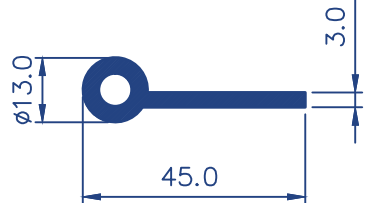
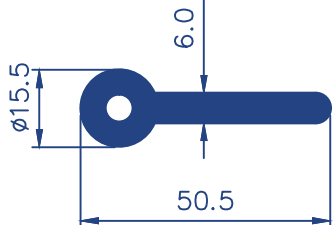
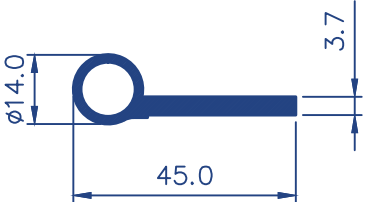
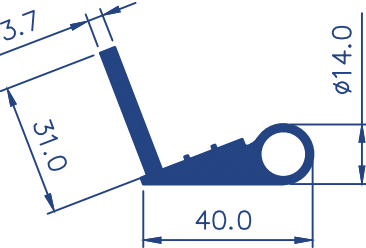
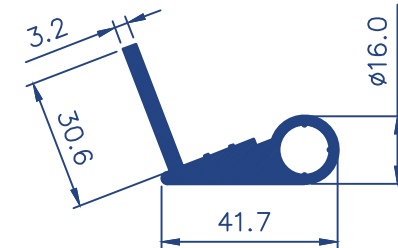

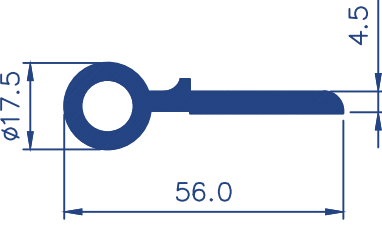
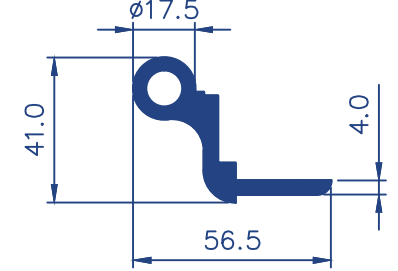
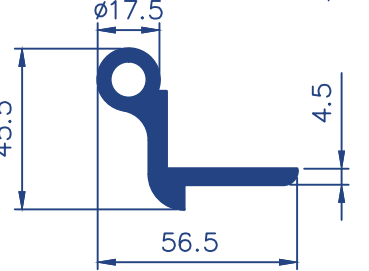
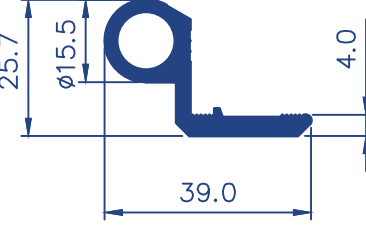
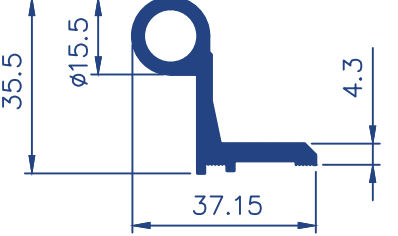


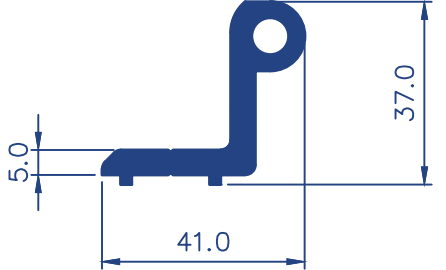
SEC.	A	øB	øC	D	Kg./M.
D-218	22.00	6.35	3.50	2.75	0.183
D-6069	24.00	5.75	3.50	2.00	0.147
D-3072	25.00	7.00	3.70	2.00	0.180
D-222	25.40	6.35	3.50	3.18	0.230
D-2976	25.50	6.50	3.50	2.10	0.178
D-3482	26.00	6.50	3.50	2.40	0.199
D-219	29.50	9.00	5.50	3.00	0.286
D-6079	33.00	7.50	5.30	1.80	0.191
D-6413	33.50	7.20	5.30	2.30	0.221
D-6412	33.50	8.20	6.10	2.30	0.230
D-6080	33.50	7.70	5.00	2.50	0.255
D-6068	34.00	7.75	5.00	2.70	0.274
D-6081	34.50	8.50	5.30	2.50	0.272
D-3971	34.50	8.50	5.50	2.30	0.262
D-3972	34.50	8.40	5.50	1.80	0.221
D-3415	34.50	8.50	5.50	2.10	0.245
D-3416	35.50	9.00	5.50	2.60	0.305
D-6082	36.00	9.00	5.60	3.60	0.376
D-3424	36.50	9.00	5.50	3.20	0.356
D-221	37.30	11.10	5.50	4.20	0.513
D-3483	37.50	10.50	5.50	4.00	0.470
D-409	44.00	11.00	6.00	4.00	0.536
D-6590	33.50	8.20	6.10	2.30	0.230
D-6648	34.30	8.40	6.00	2.80	0.280
D-6771	36.50	9.00	5.50	2.54	0.307

### HINGES TAPER

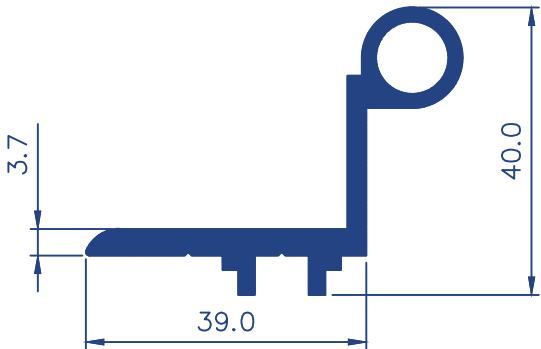
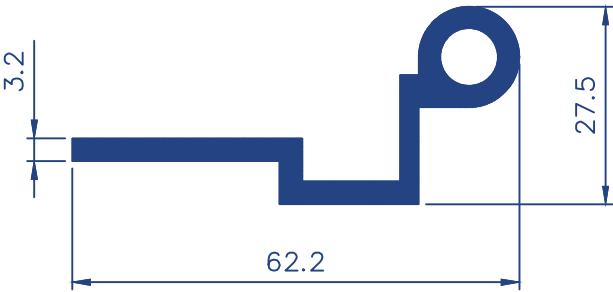
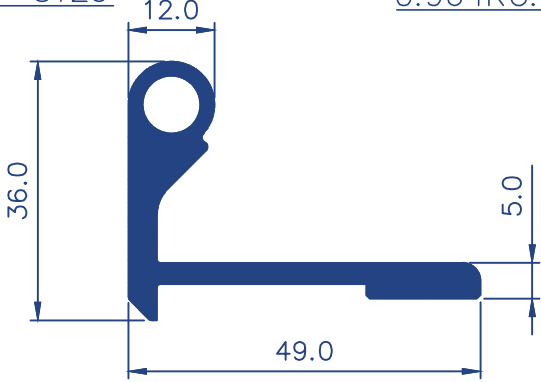
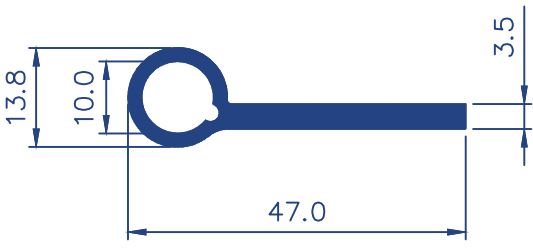
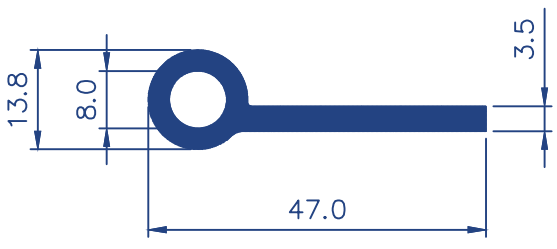
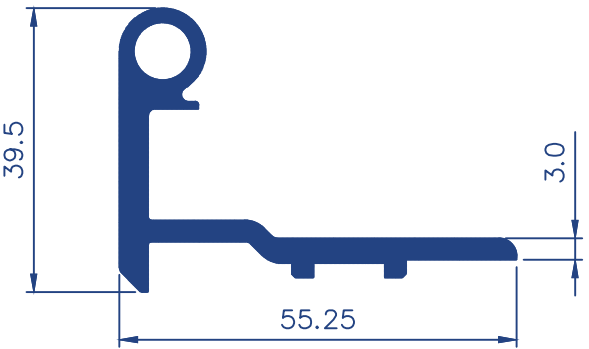
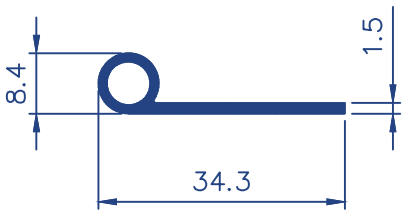
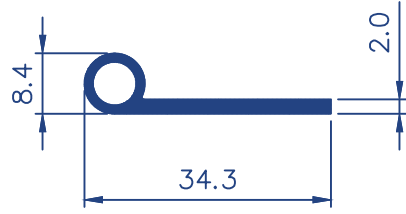


SEC.	A	øB	øC	D	Kg./M.
D-223	25.40	6.30	3.50	2.70	0.211
D-3481	25.00	6.50	3.50	1.70	0.167
D-2744	35.00	8.70	5.70	2.00	0.260
D-2957	35.00	8.60	5.30	2.50	0.311
D-249	35.00	9.00	5.00	2.20	0.288
D-3416	35.50	9.00	5.50	2.60	0.305
D-2958	36.20	9.40	6.00	3.20	0.378
D-225	36.50	9.50	5.50	2.30	0.327
D-224	36.50	9.50	5.50	3.10	0.392
D-220	36.50	9.80	5.80	2.80	0.376
D-2978	36.50	10.00	5.50	4.00	0.454
D-6083	36.70	9.70	5.30	4.00	0.460
D-3810	37.00	11.00	5.00	4.00	0.521

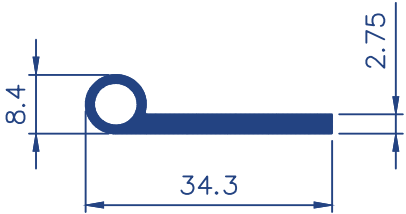
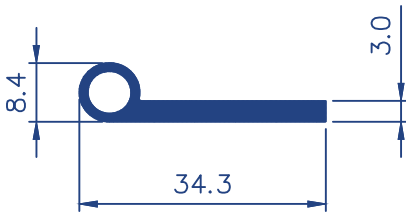
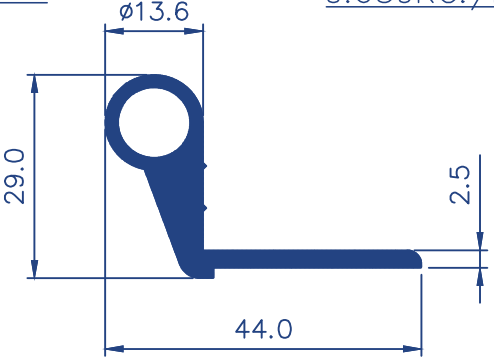
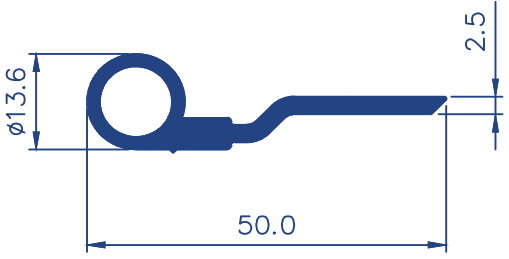
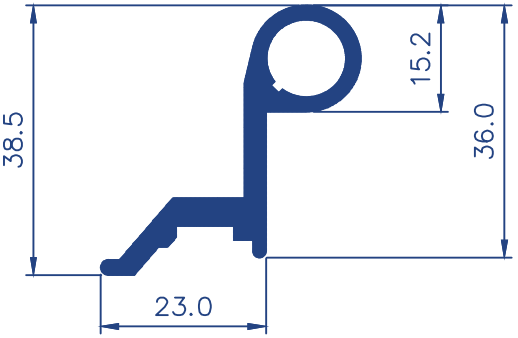
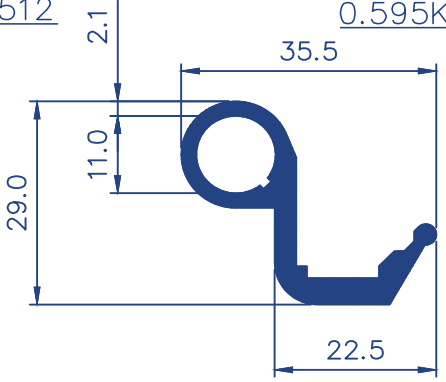

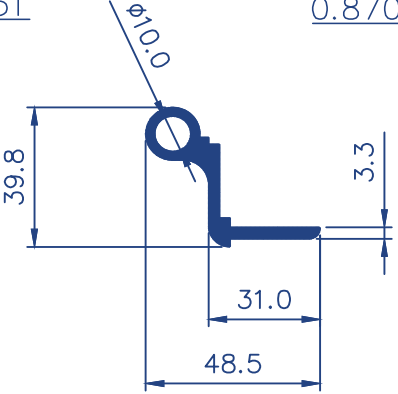
ALL DIMENSIONS ARE IN MM

<p>D-217      0.475 KG/M.</p> 	<p>D-226      0.535 KG/M.</p> 	<p>D-227      1.000 KG/M.</p> 
<p>D-228      0.490KG/M.</p> 	<p>D-229      0.930KG/M.</p> 	<p>D-234      1.231 KG/M.</p> 
<p>D-233      0.553KG/M.</p> 	<p>D-498      1.000KG/M.</p> 	<p>D-2789      1.220 KG/M.</p> 
<p>D-499      1.310KG/M.</p> 	<p>D-516      0.480KG/M.</p> 	<p>D-515      0.610 KG/M.</p> 
<p>D-2576      0.502KG/M.</p> 	<p>DAL-123      1.025KG/M.</p> 	<p>DAL-124      1.000 KG/M.</p> 

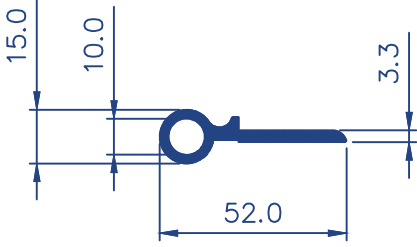
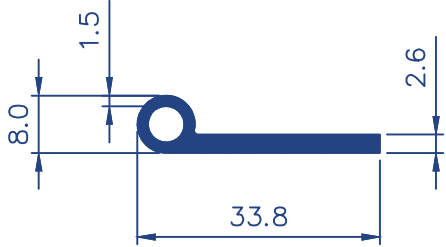
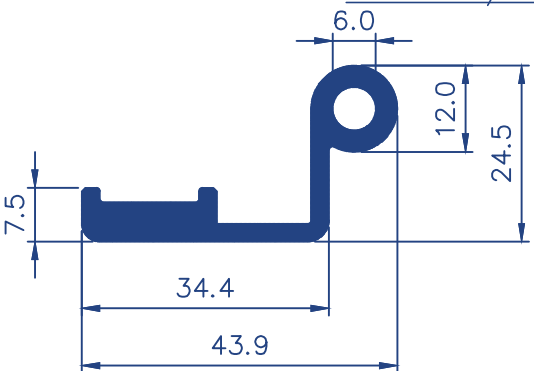
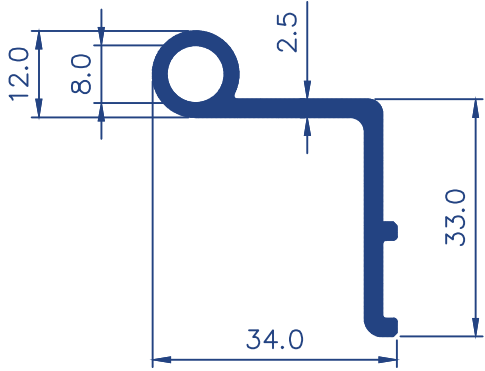
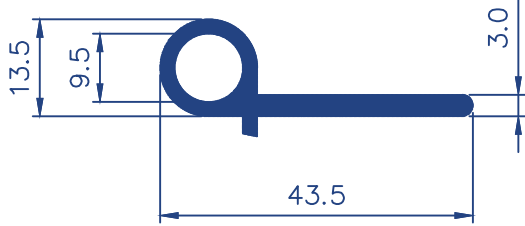
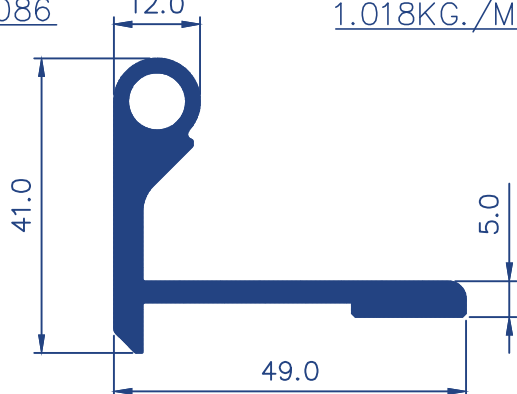
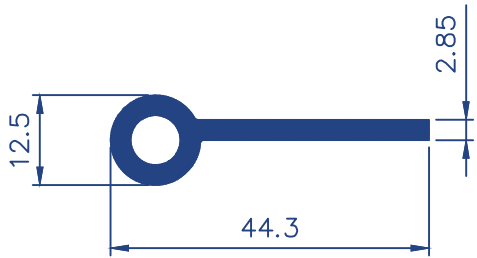
ALL DIMENSIONS ARE IN MM

<p>D-4994 <span style="float: right;">0.844KG./M.</span></p> 	<p>D-4995 <span style="float: right;">0.880KG./M.</span></p> 
<p>D-5129 <span style="float: right;">0.964KG./M.</span></p> 	<p>D-5130 <span style="float: right;">0.505KG./M.</span></p> 
<p>D-5131 <span style="float: right;">0.589KG./M.</span></p> 	<p>D-5146 <span style="float: right;">0.983KG./M.</span></p> 
<p>D-5182 <span style="float: right;">0.186KG./M.</span></p> 	<p>D-5183 <span style="float: right;">0.222KG./M.</span></p> 

ALL DIMENSIONS ARE IN MM

<p>D-5184 <span style="float: right;">0.275KG./M.</span></p> 	<p>D-5185 <span style="float: right;">0.293KG./M.</span></p> 
<p>D-5305 <span style="float: right;">0.639KG./M.</span></p> 	<p>D-5306 <span style="float: right;">0.490KG./M.</span></p> 
<p>D-5511 <span style="float: right;">0.665KG./M.</span></p> 	<p>D-5512 <span style="float: right;">0.595KG./M.</span></p> 
<p>D-5529 <span style="float: right;">0.297KG./M.</span></p> 	<p>D-5651 <span style="float: right;">0.870KG./M.</span></p> 

ALL DIMENSIONS ARE IN MM

<p>D-5652 <span style="float: right;">0.618KG./M.</span></p> 	<p>D-5674 <span style="float: right;">0.273KG./M.</span></p> 
<p>D-5688 <span style="float: right;">0.717KG./M.</span></p> 	<p>D-5689 <span style="float: right;">0.578KG./M.</span></p> 
<p>D-5852 <span style="float: right;">0.476KG./M.</span></p> 	<p>D-6086 <span style="float: right;">1.018KG./M.</span></p> 
<p>D-6582 <span style="float: right;">0.477KG./M.</span></p> 	


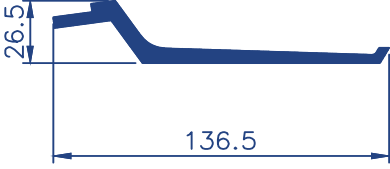
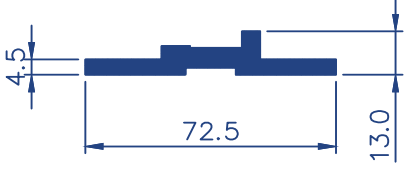
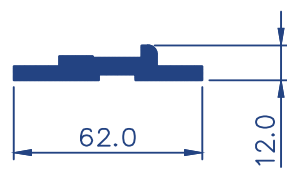
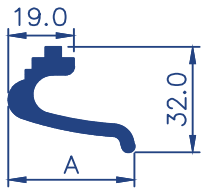
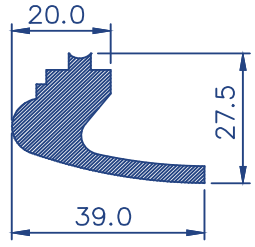
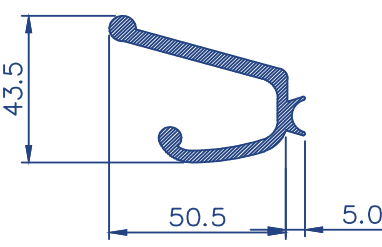
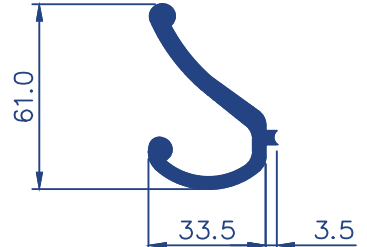
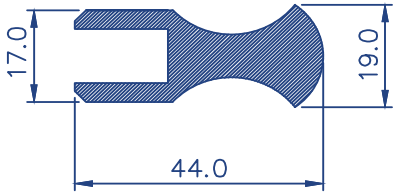
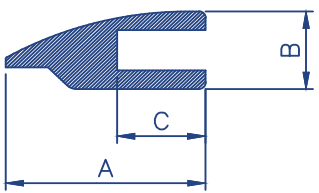
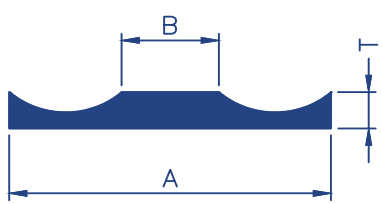
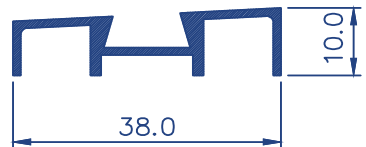

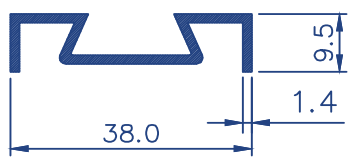
ALL DIMENSIONS ARE IN MM

<p>D-207      0.635 KG/M.</p>	<p>D-210      0.629 KG/M.</p>	
<p>D-3975      0.828KG/M.</p>	<p>D-1240      1.380KG/M.</p>	<p>D-1241      1.030 KG/M.</p>
<p>D-2576      0.502KG/M.</p>	<p>D-3973      0.422KG/M.</p>	<p>D-3974      1.017KG/M.</p>
<p>D-230      0.507 KG/M.</p>	<p>D-231      0.560 KG/M.</p>	<p>D-209      0.426 KG/M.</p>

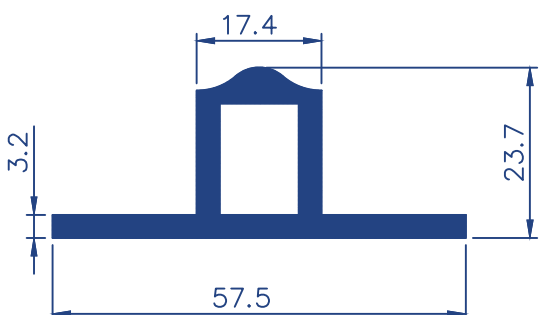

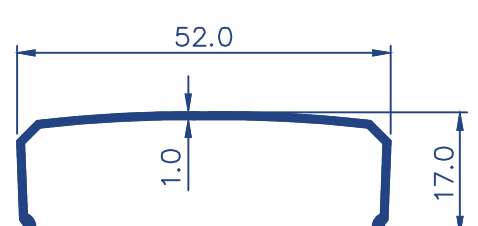
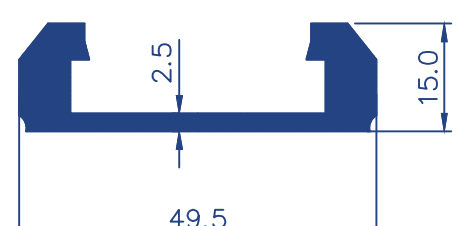
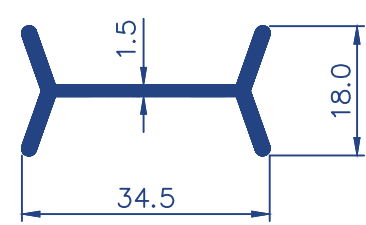
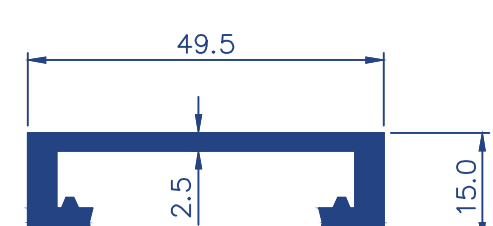
ALL DIMENSIONS ARE IN MM



**HARDWARE**

<p>D-3706      2.192 KG/M.</p> 	<p>D-2974      2.052 KG/M.</p> 	<p>D-3707      1.166 KG/M.</p> 																																																																											
<p>D-2975      1.064 KG/M.</p> 	<p>D-157      0.730 KG/M.</p>  <table border="1" data-bbox="582 840 965 952"> <thead> <tr> <th>SEC.</th> <th>A</th> <th>Kg./M.</th> </tr> </thead> <tbody> <tr> <td>D-157</td> <td>36.50</td> <td>0.730</td> </tr> <tr> <td>D-2970</td> <td>35.00</td> <td>0.675</td> </tr> </tbody> </table>	SEC.	A	Kg./M.	D-157	36.50	0.730	D-2970	35.00	0.675	<p>D-166      1.000 KG/M.</p> 																																																																		
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<p>D-750      1.120 KG/M.</p> 	<p>D-753      1.200 KG/M.</p> 	<p>D-320      1.090 KG/M.</p> 																																																																											
	<p><b>BILLY</b></p> 	<p>D-751      0.228 KG/M.</p> 																																																																											
<table border="1" data-bbox="119 1556 550 1691"> <thead> <tr> <th>SEC.</th> <th>A</th> <th>B</th> <th>C</th> <th>Kg./M.</th> </tr> </thead> <tbody> <tr> <td>D-159</td> <td>28.30</td> <td>11.50</td> <td>12.50</td> <td>0.462</td> </tr> <tr> <td>D-841</td> <td>34.50</td> <td>13.00</td> <td>13.00</td> <td>0.696</td> </tr> <tr> <td>D-2942</td> <td>29.20</td> <td>12.50</td> <td>10.00</td> <td>0.489</td> </tr> </tbody> </table>  <table border="1" data-bbox="119 1848 550 1971"> <thead> <tr> <th>SEC.</th> <th>A</th> <th>B</th> <th>T</th> <th>Kg./M.</th> </tr> </thead> <tbody> <tr> <td>F-167</td> <td>62.90</td> <td>14.00</td> <td>5.50</td> <td>1.011</td> </tr> <tr> <td>F-170</td> <td>64.0</td> <td>14.20</td> <td>5.00</td> <td>0.869</td> </tr> </tbody> </table>	SEC.	A	B	C	Kg./M.	D-159	28.30	11.50	12.50	0.462	D-841	34.50	13.00	13.00	0.696	D-2942	29.20	12.50	10.00	0.489	SEC.	A	B	T	Kg./M.	F-167	62.90	14.00	5.50	1.011	F-170	64.0	14.20	5.00	0.869	<table border="1" data-bbox="558 1556 989 1836"> <thead> <tr> <th>SEC.</th> <th>A</th> <th>B</th> <th>T</th> <th>Kg./M.</th> </tr> </thead> <tbody> <tr> <td>D-942</td> <td>31.10</td> <td>10.0</td> <td>2.60</td> <td>0.166</td> </tr> <tr> <td>D-2944</td> <td>37.50</td> <td>9.50</td> <td>3.00</td> <td>0.213</td> </tr> <tr> <td>D-946</td> <td>38.10</td> <td>11.0</td> <td>3.00</td> <td>0.220</td> </tr> <tr> <td>D-940</td> <td>38.10</td> <td>11.0</td> <td>3.52</td> <td>0.275</td> </tr> <tr> <td>D-947</td> <td>38.10</td> <td>11.0</td> <td>2.75</td> <td>0.195</td> </tr> <tr> <td>D-938</td> <td>38.10</td> <td>11.0</td> <td>5.40</td> <td>0.467</td> </tr> <tr> <td>D-939</td> <td>38.10</td> <td>11.5</td> <td>4.50</td> <td>0.350</td> </tr> </tbody> </table>	SEC.	A	B	T	Kg./M.	D-942	31.10	10.0	2.60	0.166	D-2944	37.50	9.50	3.00	0.213	D-946	38.10	11.0	3.00	0.220	D-940	38.10	11.0	3.52	0.275	D-947	38.10	11.0	2.75	0.195	D-938	38.10	11.0	5.40	0.467	D-939	38.10	11.5	4.50	0.350	<p>D-740      0.302 KG/M.</p> 
SEC.	A	B	C	Kg./M.																																																																									
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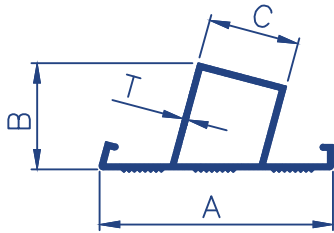
ALL DIMENSIONS ARE IN MM

<p><u>D-318</u>                      <u>0.910 KG/M.</u></p> 	<p><u>D-168</u>                      <u>1.250 KG/M.</u></p> 
<p><u>D-163</u>                      <u>0.205 KG/M.</u></p> 	<p><u>D-164</u>                      <u>0.833 KG/M.</u></p> 
<p><u>D-165</u>                      <u>0.292 KG/M.</u></p> 	<p><u>D-167</u>                      <u>0.510 KG/M.</u></p> 

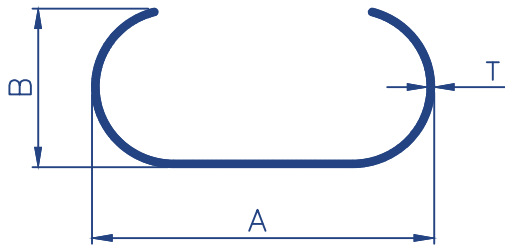
ALL DIMENSIONS ARE IN MM



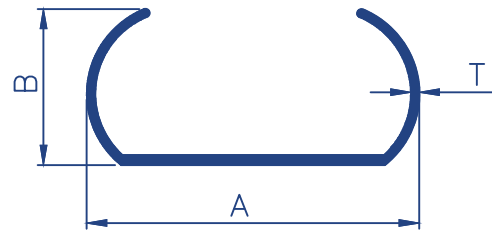
## LADDER



SEC.	A	B	C	T	Kg./M.
D-314	65.00	30.80	25.40	1.45	0.648
D-326	65.00	30.80	25.40	2.00	0.850
D-4398	65.00	30.80	25.40	0.85	0.377
D-4398/H	65.00	30.80	25.40	1.00	0.440

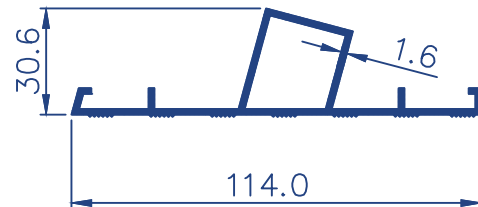


SEC.	A	B	T	Kg./M.
D-918	66.00	30.0	1.60	0.521
D-3411	66.00	30.0	1.32	0.441
D-914	66.67	31.75	4.00	1.200
D-913	66.67	31.75	3.18	0.935
D-915	66.68	31.75	2.00	0.600
D-917	66.68	31.75	2.76	0.850
D-3559	68.00	32.00	1.35	0.470
D-3940	67.00	31.50	1.70	0.602
D-2982	68.00	32.60	1.20	0.416
D-4477	68.00	32.00	1.00	0.351

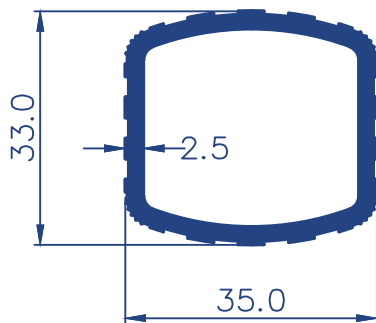


SEC.	A	B	T	Kg./M.
D-5564	63.50	31.50	0.90	0.313
D-7020	64.50	31.50	1.50	0.504
D-5565	66.00	31.50	1.75	0.631
D-5566	66.00	31.50	2.25	0.791
D-3554	66.00	31.50	2.70	0.945
D-3410	66.00	31.50	3.00	0.958
D-5567	66.00	31.50	3.70	1.195
D-7021	66.50	31.50	1.40	0.471
D-3409	67.00	31.50	2.50	0.796

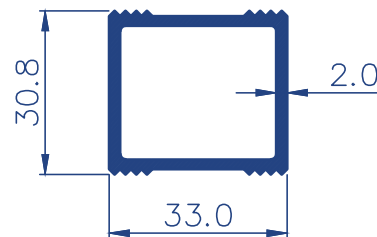
D-3498 0.985KG./M.



B-838 0.400KG./M.

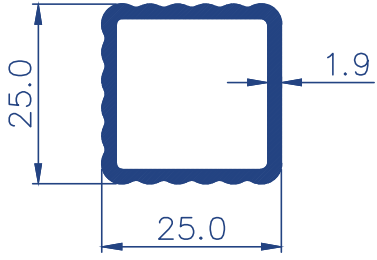


B-849 0.640KG./M.



ALL DIMENSIONS ARE IN MM

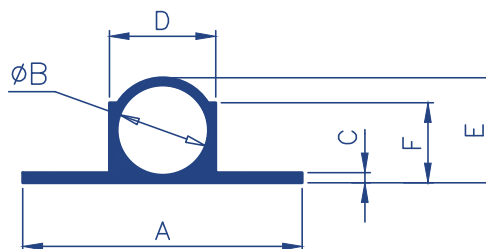
LADDER

<p>B-855</p> <p>0.442KG./M.</p>  <p>The diagram shows a square cross-section of a ladder profile. The outer side length is 25.0 mm, and the wall thickness is 1.9 mm. The profile has a decorative, wavy outer edge.</p>	
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ALL DIMENSIONS ARE IN MM



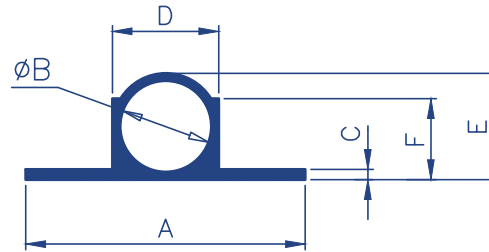
## TOWER BOLT



SEC. No.	A	øB	C	D/E	F	Kg / M.	WT.RANGE KG./12'
D-112	23.50	8.60	0.95	10.10	7.30	0.128	0.450 – 0.500
D-6087	28.00	9.25	0.65	10.90	8.40	0.139	0.475 – 0.525
D-113	28.00	9.80	0.90	11.30	8.50	0.157	0.550 – 0.650
D-2619	28.00	9.50	0.90	11.10	8.00	0.148	0.525 – 0.575
D-138	28.50	9.50	1.05	11.10	8.00	0.165	0.575 – 0.625
D2608/D6761	29.00	9.50	0.70	11.00	8.20	0.137	0.475 – 0.525
D-2608/M	29.00	9.50	0.90	11.00	8.20	0.155	0.550 – 0.600
D-2608/H	29.00	9.50	1.00	11.10	8.20	0.168	0.600 – 0.650
D-2627	29.50	9.50	1.15	11.60	8.50	0.193	0.700 – 0.750
D-148	30.00	9.50	1.35	11.50	8.50	0.198	0.650 – 0.700
D-143	30.00	9.60	1.05	11.40	7.70	0.176	0.630 – 0.700
D-2631	30.00	9.80	1.10	11.20	8.70	0.170	0.525 – 0.650
D-2628	30.00	9.80	1.50	11.60	8.80	0.201	0.700 – 0.750
D-154	30.00	9.80	1.60	12.00	9.30	0.230	0.825 – 0.875
D-2613	30.00	10.00	1.00	11.70	9.00	0.171	0.600 – 0.650
D-2613/H	30.00	10.00	1.20	11.70	9.00	0.182	0.650 – 0.700
D-2610	30.00	10.00	1.30	11.90	9.30	0.208	0.750 – 0.850
D-127	30.00	10.00	1.30	12.30	8.50	0.214	0.725 – 0.800
D-2646	30.50	10.10	1.00	11.60	8.80	0.163	0.575 – 0.650
D-124	30.60	10.30	1.20	12.50	9.20	0.221	0.750 – 0.800
D-6265	31.00	9.80	0.90	11.50	8.80	0.167	0.570 – 0.620
D-6247	31.00	9.80	1.20	11.60	8.80	0.188	0.650 – 0.700
D-2645	31.00	9.80	1.30	11.60	8.80	0.193	0.675 – 0.725
D-2614	31.00	10.50	0.90	12.00	9.80	0.167	0.600 – 0.650
D-2614/M	31.00	10.50	1.00	12.10	9.80	0.176	0.650 – 0.700
D-2614/H	31.00	10.50	1.20	12.10	9.80	0.194	0.700 – 0.750
D-6762	31.00	10.70	1.0	12.00	8.80	0.159	0.550 – 0.600
D-2606	31.00	10.70	0.70	12.70	10.00	0.175	0.600 – 0.650
D-6763	31.00	10.70	1.00	12.70	10.00	0.188	0.650 – 0.700
D-6764	31.00	10.70	1.30	12.41	9.31	0.198	0.700– 0.750
D-6765	31.00	10.70	1.20	12.70	10.00	0.212	0.750 – 0.800
D-6766	31.00	10.70	1.30	12.87	9.77	0.226	0.800– 0.850
D-2606/L	31.00	10.70	1.60	13.10	10.00	0.240	0.850– 0.900
D-2606/H	31.00	10.70	2.00	12.70	10.00	0.250	0.900 – 0.950
D-2808	31.00	10.80	1.25	12.60	10.00	0.200	0.700 – 0.750
D-2609	31.00	10.80	1.40	12.80	10.20	0.224	0.850 – 0.900
D-2609/H	31.00	10.80	1.50	12.80	10.20	0.245	0.900 – 0.950
D-2626	31.00	9.80	1.50	11.70	8.80	0.213	0.725 – 0.825
D-147	31.00	10.00	1.50	12.20	9.00	0.220	0.800 – 0.850

ALL DIMENSIONS ARE IN MM

## TOWER BOLT

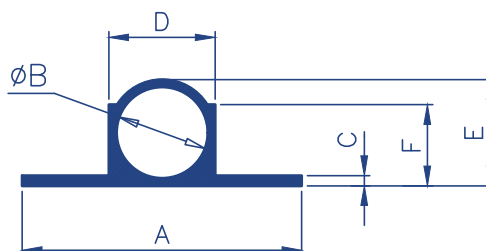


SEC. No.	A	øB	C	D/E	F	Kg / M.	WT.RANGE KG./12'
D-151	31.00	10.00	1.50	12.10	9.50	0.225	0.825 - 0.875
D-2806	31.00	11.00	1.60	13.40	10.00	0.245	0.900 - 0.950
D-6248	31.30	10.90	1.85	12.80	10.00	0.242	0.850 - 0.900
D-2616	31.50	10.00	1.50	11.90	9.30	0.214	0.760 - 0.810
D-2616H	31.50	10.00	1.65	11.90	9.30	0.237	0.810 - 0.880
D-126	31.75	10.25	1.20	12.25	9.52	0.180	0.650 - 0.700
D-118	31.75	10.28	1.35	12.58	9.00	0.240	0.850 - 0.900
D-2617	31.75	10.20	1.40	12.30	9.70	0.232	0.830 - 0.880
D-123	31.75	10.20	1.45	13.20	9.20	0.275	0.975 - 1.050
D-2807	31.75	9.70	1.50	11.80	9.30	0.218	0.775 - 0.825
D-122	31.75	10.30	1.55	13.40	9.20	0.292	1.025 - 1.100
D-2605	31.80	10.80	1.00	13.00	10.00	0.216	0.750 - 0.800
D-2603	31.80	9.80	1.40	11.80	9.30	0.213	0.750 - 0.800
D-149	31.80	11.00	1.60	13.60	11.00	0.275	0.950 - 1.025
D-149/H	31.80	11.00	1.70	13.60	11.00	0.285	1.025 - 1.100
D-105	32.00	11.00	1.30	13.00	9.50	0.225	0.800 - 0.875
D-2805	32.00	11.20	1.50	14.20	11.00	0.311	1.100 - 1.200
D-106	32.00	11.00	1.60	13.50	10.00	0.282	1.000 - 1.100
D-114	32.00	11.00	1.60	14.20	10.60	0.316	1.100 - 1.200
D-117	32.00	9.80	1.80	12.10	9.50	0.249	0.875 - 0.950
D-6249	33.00	10.70	2.00	14.20	10.40	0.349	1.225 - 1.325
D-2643	34.10	10.90	0.64	12.00	8.80	0.137	0.450 - 0.525
D-2629	34.50	11.20	1.10	12.80	10.40	0.176	0.625 - 0.700
D-2630	35.00	11.80	1.30	13.50	10.50	0.243	0.875 - 0.925
D-2612	35.00	11.80	1.70	14.60	11.00	0.321	1.125 - 1.225
D-137	35.50	10.00	1.20	11.90	9.00	0.210	0.740 - 0.800
D-146	35.50	11.50	1.60	13.50	9.50	0.253	0.900 - 0.975
D-6264	36.00	11.50	1.63	13.10	9.83	0.239	0.850 - 0.900
D-2625	36.00	12.00	1.40	14.00	10.60	0.256	0.900 - 0.975
D-2621	36.00	12.00	1.80	14.10	10.60	0.275	0.975 - 1.050
D-2800	36.00	11.80	1.80	15.00	10.50	0.351	1.250 - 1.350
D-2810	36.00	12.00	2.00	14.80	11.50	0.329	1.150 - 1.250
D-6795	36.20	11.00	1.36	12.50	9.40	0.212	0.740 - 0.810
D-6106	36.20	11.30	1.70	12.80	9.70	0.237	0.830 - 0.880
D-2647	36.50	12.00	1.75	13.80	9.80	0.264	0.900 - 0.975
D-128	36.50	11.70	0.90	13.50	10.00	0.211	0.750 - 0.825
D-155	36.80	12.00	2.50	15.20	11.80	0.396	1.375 - 1.500
D-2809	37.00	12.30	2.20	15.70	12.50	0.403	1.400 - 1.550

ALL DIMENSIONS ARE IN MM



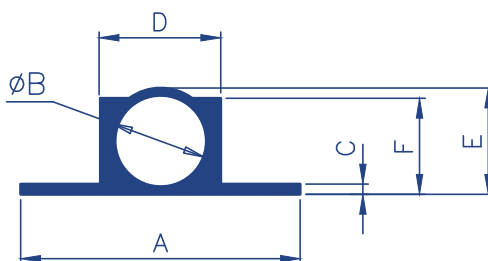
## TOWER BOLT



SEC. No.	A	ØB	C	D/E	F	Kg / M.	WT.RANGE KG./12'
D-6283	37.00	12.50	1.90	15.00	12.00	0.335	1.200 - 1.250
D-6250	37.00	12.50	1.92	15.20	12.00	0.349	1.250 - 1.300
D-6263	37.00	12.50	2.10	15.30	12.00	0.366	1.300 - 1.360
D-2644	37.00	12.50	2.20	15.30	11.80	0.370	1.350 - 1.400
D-128	36.50	11.70	0.90	13.50	10.00	0.211	0.750 - 0.825
D-155	36.80	12.00	2.50	15.20	11.80	0.396	1.375 - 1.500
D-2809	37.00	12.30	2.20	15.70	12.50	0.403	1.400 - 1.550
D-2644	37.00	12.50	2.20	15.30	11.80	0.370	1.350 - 1.400
D-2618	37.00	12.50	2.60	15.50	11.80	0.388	1.350 - 1.500
D-128/M	37.50	12.00	1.20	13.80	11.00	0.246	0.875 - 0.950
D-133	37.50	11.80	1.65	14.70	11.50	0.331	1.200 - 1.300
D-131	37.50	11.80	1.80	15.00	11.50	0.383	1.350 - 1.500
D-156	37.50	12.20	2.00	15.90	12.50	0.417	1.450 - 1.600
D-150	37.50	12.70	2.40	16.50	13.50	0.458	1.600 - 1.750
D-6701	37.50	13.00	2.50	16.70	12.80	0.463	1.575 - 1.675
D-2615	37.75	12.60	2.10	16.50	13.20	0.429	1.525 - 1.625
D-2804	37.80	13.00	2.20	17.40	13.20	0.505	1.775 - 1.950
D-6175	38.00	12.30	2.00	14.60	11.50	0.329	1.175 - 1.225
D-107	38.00	12.75	1.90	15.50	11.60	0.381	1.325 - 1.475
D-119	38.00	13.00	2.25	18.00	14.00	0.585	2.100 - 2.250
D-108	38.00	12.75	2.40	16.60	12.00	0.480	1.700 - 1.900
D-6550	38.00	12.80	2.30	D16.4/E16.9	13.50	0.469	1.675 - 1.750
D-2623	38.00	13.00	2.60	17.10	13.50	0.510	1.800 - 1.950
D-103	41.00	12.00	1.60	15.00	13.00	0.362	1.225 - 1.350
D-125	43.00	13.00	1.00	15.88	13.00	0.375	1.300 - 1.400
D-102	44.00	12.00	1.75	15.50	13.50	0.430	1.500 - 1.650
D-144	44.00	13.26	2.00	16.40	14.80	0.470	1.640 - 1.800
D-6600	44.80	13.50	2.00	16.30	14.00	0.432	1.550 - 1.650
D-109	50.00	13.00	6.00	25.00	19.00	1.560	5.600 - 5.800

ALL DIMENSIONS ARE IN MM

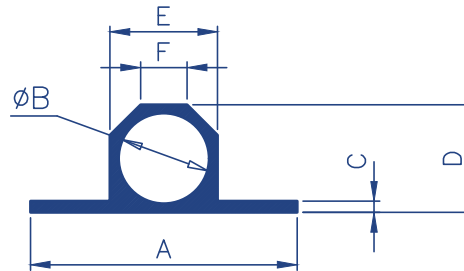
## TOWER BOLT



SEC. No.	A	ØB	C	D/E	F	Kg / M.	WT.RANGE KG./12'
D-136	24.80	8.00	1.15	10.30	8.80	0.180	0.625 – 0.675
D-110	25.40	7.93	0.85	9.73	8.25	0.140	0.475 – 0.525
D-115	25.40	8.38	1.20	10.80	9.00	0.220	0.750 – 0.850
D-153	25.40	8.50	1.50	10.70	9.40	0.197	0.700 – 0.760
D-2602	29.20	9.60	1.00	11.20	8.80	0.170	0.600 – 0.650
D-2602/H	29.20	9.60	1.10	11.20	8.80	0.181	0.650 – 0.700
D-2645	31.00	9.80	1.30	11.60	8.80	0.193	0.700 – 0.750
D-128/H	31.75	10.00	1.20	12.40	10.00	0.250	0.870 – 0.950
D-152	31.75	10.30	1.40	13.00	11.40	0.270	0.940 – 1.030
D-2643	34.50	10.90	0.64	12.00	8.80	0.137	0.475 – 0.525
D-2620	34.50	11.00	1.00	12.90	10.50	0.210	0.750 – 0.800
D-2801	36.00	11.50	2.00	14.50	10.50	0.351	1.200 – 1.340
D-2624	36.20	11.00	0.90	12.30	9.80	0.174	0.600 – 0.650
D-2624/H	36.20	11.00	1.00	12.30	9.80	0.184	0.650 – 0.700
D-145	36.80	11.40	1.40	13.00	11.00	0.235	0.775 – 0.825
D-145/H	36.80	11.40	1.50	13.00	11.00	0.243	0.825 – 0.900
D-2644	37.00	12.50	2.20	15.30	11.80	0.370	1.300 – 1.400
D-2622	40.00	11.50	1.20	13.40	12.00	0.260	0.925 – 0.975
D-2622/H	40.00	12.50	1.30	13.40	12.00	0.270	0.975 – 1.025
D-121	40.00	12.75	2.00	16.45	14.45	0.465	1.700 – 1.800
D-134	40.50	11.80	1.45	14.20	12.50	0.320	1.100 – 1.200
D-132	40.50	11.80	1.70	14.50	12.80	0.350	1.200 – 1.300
D-101	42.00	12.75	1.75	15.75	13.75	0.433	1.500 – 1.600
D-104	42.00	12.00	1.80	15.00	13.30	0.400	1.400 – 1.500
D-120	42.00	13.26	1.90	17.00	13.00	0.454	1.650 – 1.750
D-2611	43.70	12.50	1.90	15.50	13.70	0.405	1.375 – 1.500
D-130	44.00	13.26	1.90	16.56	14.81	0.475	1.700 – 1.800
D-2607	44.80	13.50	1.80	16.50	14.00	0.421	1.506 – 1.600

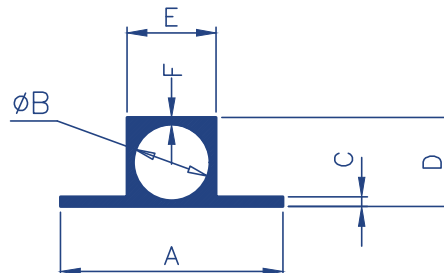
ALL DIMENSIONS ARE IN MM

## HEX. TOWER BOLT



SEC. NO.	A	ØB	C	D/E	F	Kg / M.	WT.RANGE KG./12'
D-2641	29.30	8.95	0.75	10.25	4.40	0.130	0.425 – 0.500
D-2632	31.50	10.70	1.30	12.70	5.50	0.224	0.800 – 0.850
D-2642	34.20	10.60	0.75	12.00	5.00	0.162	0.590 – 0.660
D-2637	38.00	12.30	2.20	14.80	6.60	0.362	1.300 – 1.350
D-6773	31.00	10.40	1.20	11.70	5.00	0.172	0.600 – 0.700

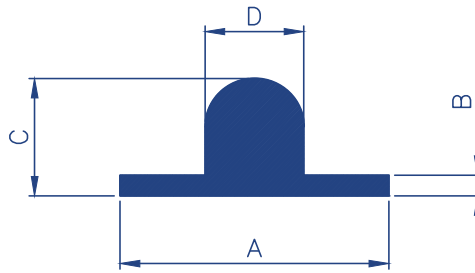
## SQUARE LOWER BOLT



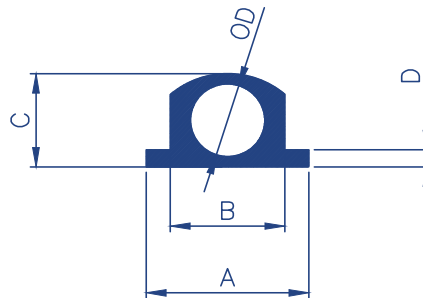
SEC. NO.	A	ØB	C	D/E	F	Kg / M.	WT.RANGE KG./12'
D-6844	29.60	10.70	0.80	12.00	0.80	0.184	0.640 – 0.700
D-308	30.00	10.00	1.00	12.00	1.00	0.225	0.800 – 0.850
D-6703	30.50	10.50	1.00	11.90	0.70	0.199	0.700 – 0.750
D-2639	31.00	10.50	1.10	12.00	0.75	0.211	0.750 – 0.800
D-2640	31.50	10.80	1.35	12.60	1.00	0.250	0.900 – 0.950
D-2638	37.00	12.30	1.68	14.70	1.20	0.364	1.300 – 1.350

ALL DIMENSIONS ARE IN MM

## TOWER BOLT



SEC. NO.	A	B	C	D	Kg / M.
D-158	35.00	2.80	14.30	9.50	0.529
D-2938	35.80	3.00	14.80	10.00	0.580
D-333	38.50	3.00	17.00	14.10	0.742
D-4041	42.50	3.00	19.00	12.40	0.821

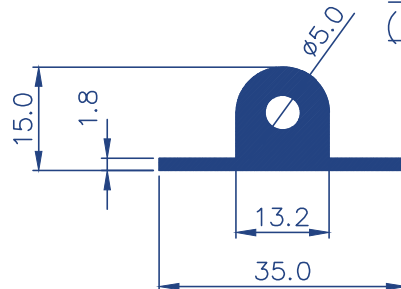


SEC. No.	A	ØB	B	C	D	Kg / M.	WT.RANGE KG./12'
D-6001	23.00	10.50	16.2	13.50	2.50	0.361	1.300 – 1.350
D-6619	24.70	10.80	17.20	12.50	2.00	0.340	1.200 – 1.300
D-6843	25.00	11.00	17.00	12.60	2.00	0.327	1.150 – 1.250
D-5942	25.50	10.50	18.50	13.00	3.20	0.436	1.600KG(Max.)12'

D-6251

0.537KG./M.

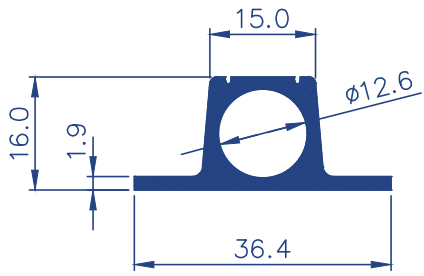
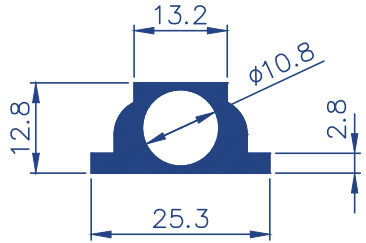
(1.900 – 2.000KG/12')



ALL DIMENSIONS ARE IN MM



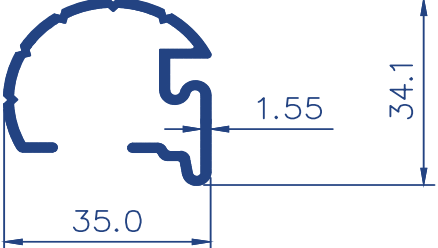
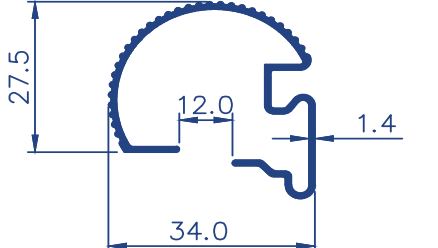
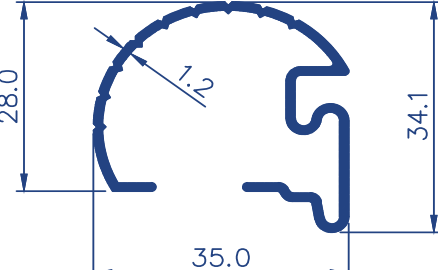
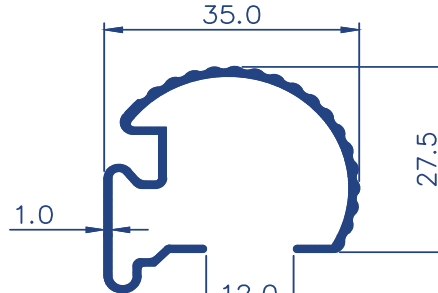
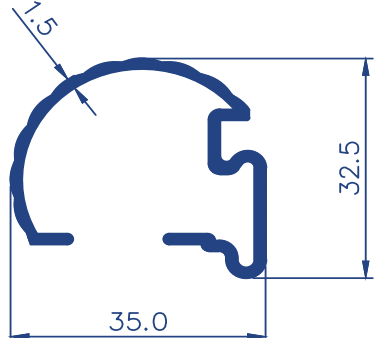
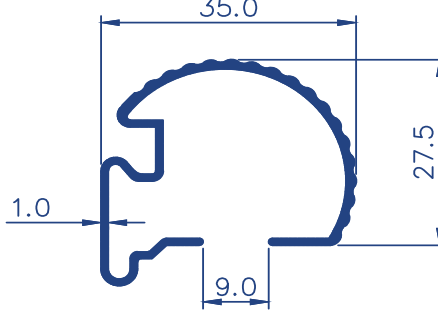
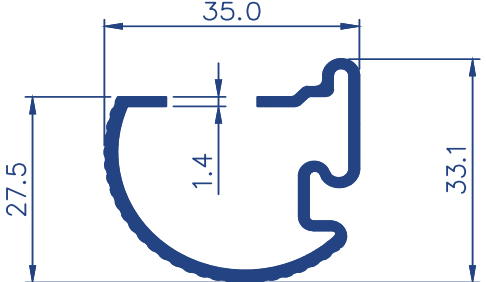
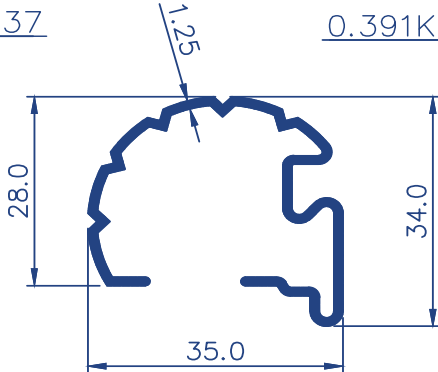
**TOWER BOLT**

<p><u>D-6614</u>                      <u>0.458KG./M.</u></p> 	<p><u>D-6620</u>                      <u>0.390KG./M.</u></p> 
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ALL DIMENSIONS ARE IN MM



**DRAPERY ROD**

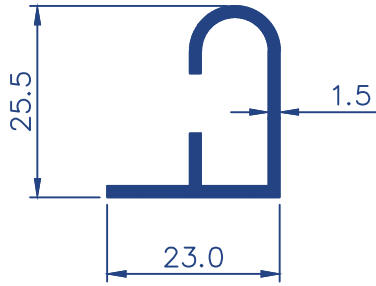
<p>D-504                      0.460 KG/M.</p> 	<p>D-647                      0.450 KG/M.</p> 
<p>D-2677                      0.402KG./M.</p> 	<p>D-2885                      0.366KG./M.</p> 
<p>D-2909                      0.432KG./M.</p> 	<p>D-2886                      0.372KG./M.</p> 
<p>D-3355                      0.452KG./M.</p> 	<p>D-3337                      0.391KG./M.</p> 

ALL DIMENSIONS ARE IN MM

**DRAPERY ROD  
 P CHANNEL**

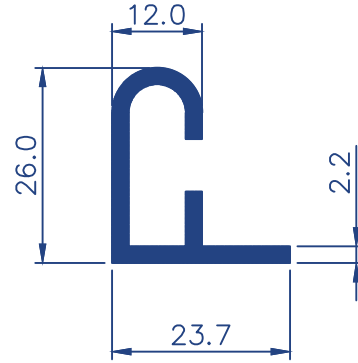
D-2910

0.271KG./M.



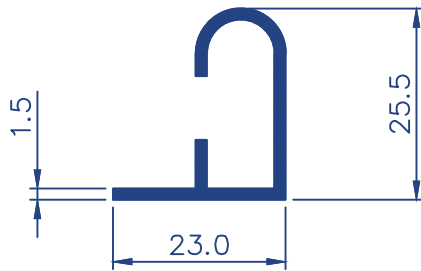
D-3783

0.402KG./M.



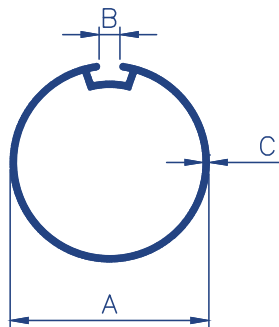
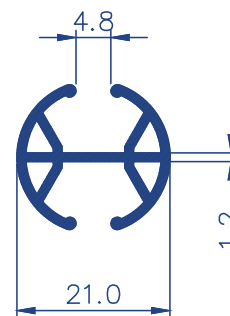
D-3170

0.271KG./M.



B-834

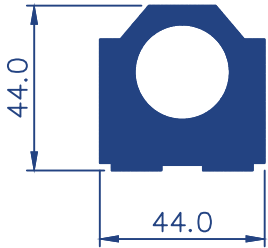

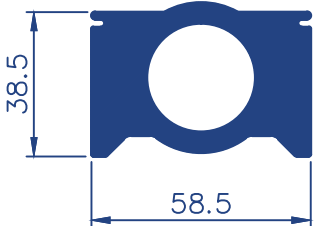
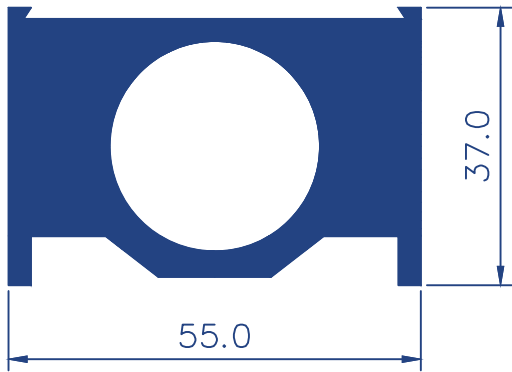
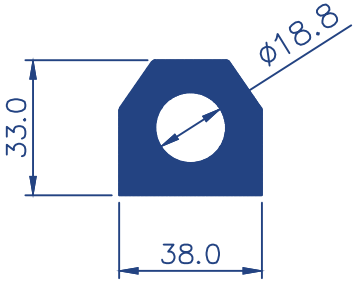
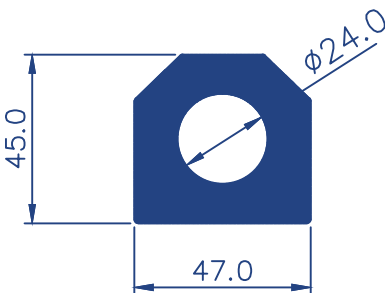
0.276KG./M.



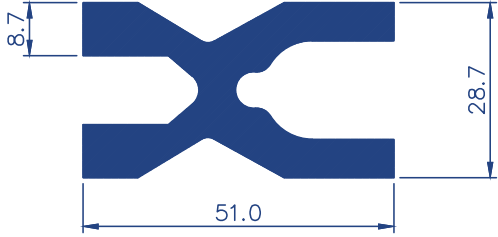
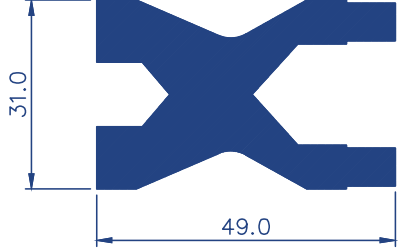
SEC. NO.	A	B	C	KG./M
B-833	40.00	4.20	1.20	0.421

ALL DIMENSIONS ARE IN MM

**DOOR CLOSER**

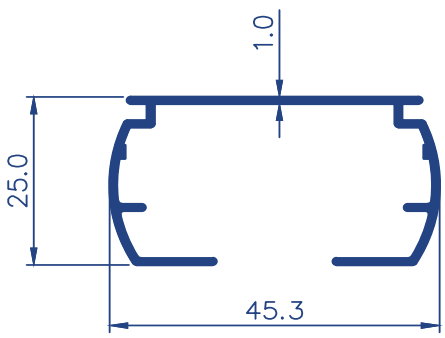
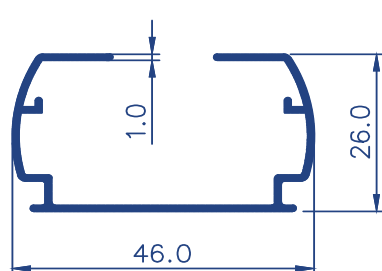
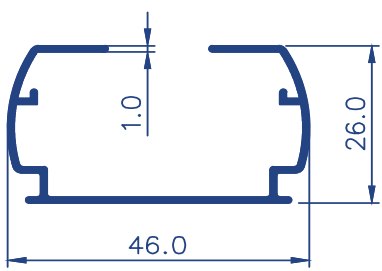
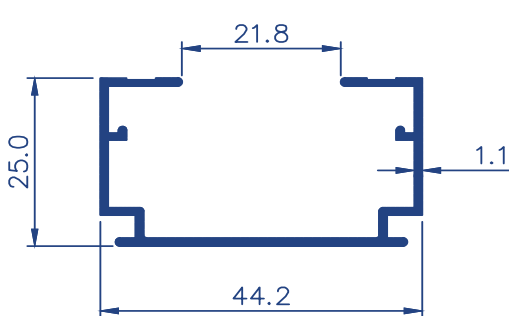
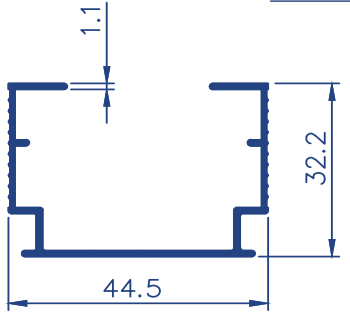
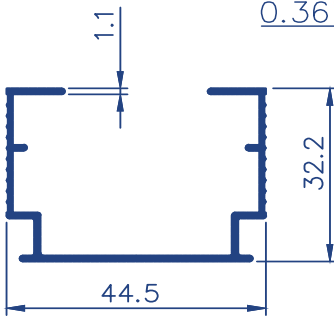
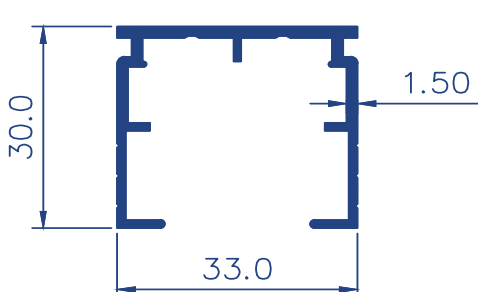
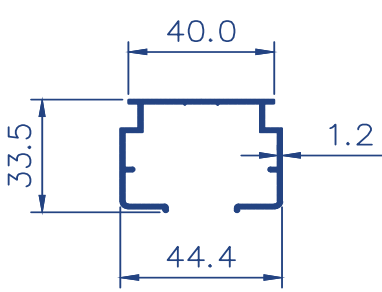
<p><u>D-3454</u> <span style="float: right;"><u>3.391KG./M.</u></span></p> 	<p><u>D-3573</u> <span style="float: right;"><u>3.250KG./M.</u></span></p> 
<p><u>D-3441</u> <span style="float: right;"><u>3.790KG./M.</u></span></p> 	<p><u>D-889</u> <span style="float: right;"><u>3.310 KG/M.</u></span></p> 
<p><u>D-1551</u> <span style="float: right;"><u>2.140 KG/M.</u></span></p> 	<p><u>D-1552</u> <span style="float: right;"><u>4.085 KG/M.</u></span></p> 

**DOOR STOPPER**

<p><u>F-625</u> <span style="float: right;"><u>2.150KG./M.</u></span></p> 	<p><u>D-3047</u> <span style="float: right;"><u>2.390KG./M.</u></span></p> 
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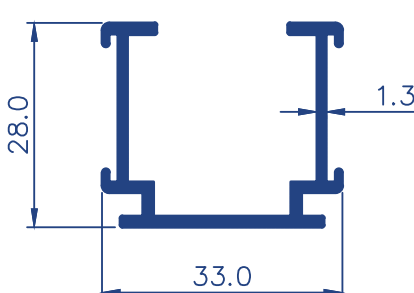
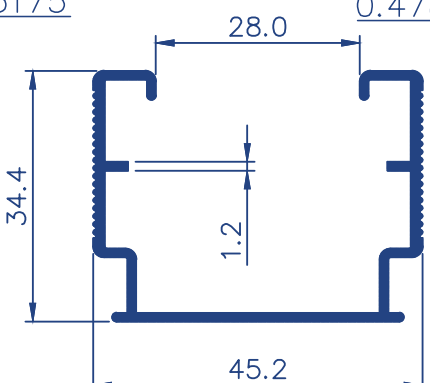
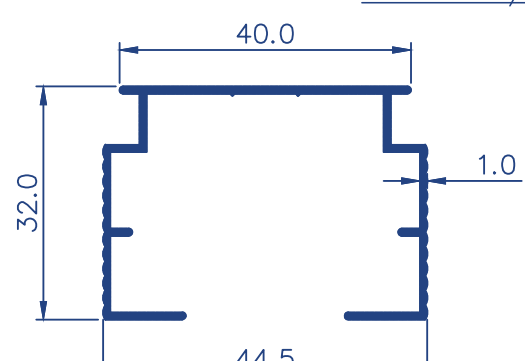
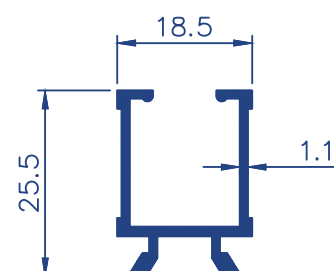
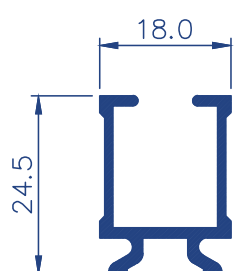
ALL DIMENSIONS ARE IN MM

**VENETIAN BLIND**

<p>D-4479 <span style="float: right;">0.342KG./M.</span></p> 	<p>D-3741 <span style="float: right;">0.358KG./M.</span></p> 
<p>D-3479 <span style="float: right;">0.358KG./M.</span></p> 	<p>D-3349 <span style="float: right;">0.384KG./M.</span></p> 
<p>D-3480 <span style="float: right;">0.367KG./M.</span></p> 	<p>D-3742 <span style="float: right;">0.367KG./M.</span></p> 
<p>D-401 <span style="float: right;">0.408 KG/M.</span></p> 	<p>D-413 <span style="float: right;">0.465 KG/M.</span></p> 

ALL DIMENSIONS ARE IN MM

**VENETIAN BLIND**

<p>D-2672 <span style="float: right;">0.424KG./M.</span></p> 	<p>D-3175 <span style="float: right;">0.478KG./M.</span></p> 
<p>D-2915 <span style="float: right;">0.369KG./M.</span></p> 	<p>D-3176 <span style="float: right;">0.278KG./M.</span></p> 
<p>C-962 <span style="float: right;">0.295KG./M.</span></p> 	

ALL DIMENSIONS ARE IN MM

