



INDO ALUSYS INDUSTRIES LIMITED

(Formerly Mahavir Aluminium Limited)
Superior Technology Superior Solutions



ALUMINIUM SOLAR PROFILES CATALOGUE

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.

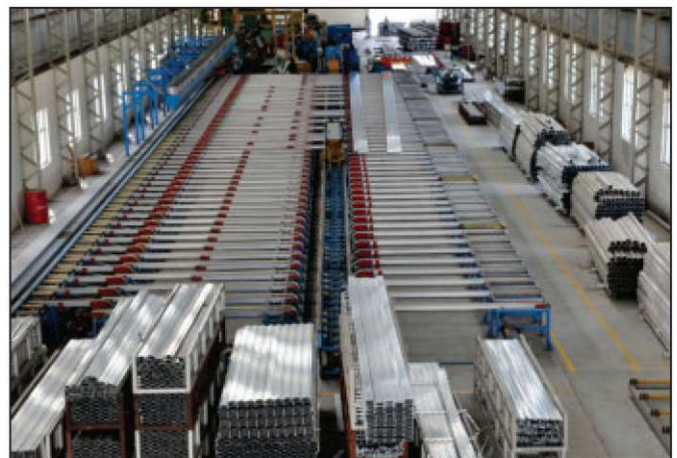
MACHINERY

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





Solar Aluminium Panels

Solar Panels, generally comprising of arrays of Photovoltaic cells, use the solar energy directly from the Sun to generate electricity for our daily use. Being environment friendly in nature, Solar Panels collect the solar energy which is available in abundance on our planet and convert it using the advanced technologies developed by human beings.

The company enjoys a great strength of having all required facilities under one roof and with the qualified team of experienced engineers and modern systems in place we are able to produce high quality Aluminium Solar Frames.

We are capable of supplying sections duly cut to size & finished (Anodized) ready to use as Solar Frames. Our Aluminium Solar Frame sections come in various shapes and sizes, to accommodate your specific applications. Our Aluminium Solar Frame adopts connector or screw joint, resulting in well fixed structure with great durability.

We have developed Solar Frames P.V. Cells for well repute Solar Industries.

- IAIL Aluminium produces diverse range of Aluminium Extrusions for PV industry. Our level of precision provides exceptional quality for PV industry. IAIL Aluminium can meet the required tolerances and deliver quality extrusions.
- IAIL Aluminium closely working with PV industry producing components for a range of products includes PV panel frame and mounting profiles. We supply quality Aluminium Extrusions, Aluminium shapes, and fabricated Aluminium parts to some of the most demanding companies in the PV industry
- We can make customized Aluminium Frames for solar power modules to meet the different specifications and requirements. Our production capability, product precision and quality have placed us as one of the best producers in the industry.



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.

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



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:
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Place and date:
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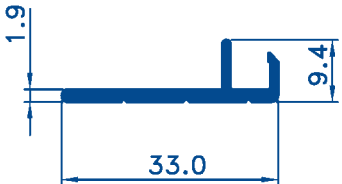
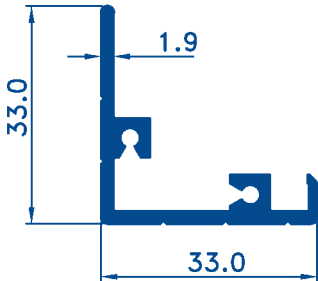
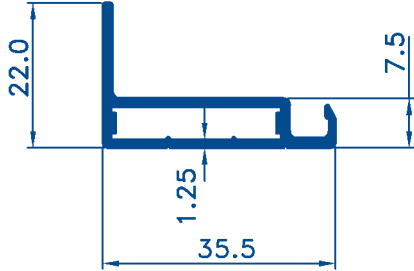
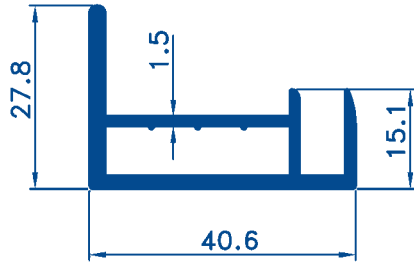
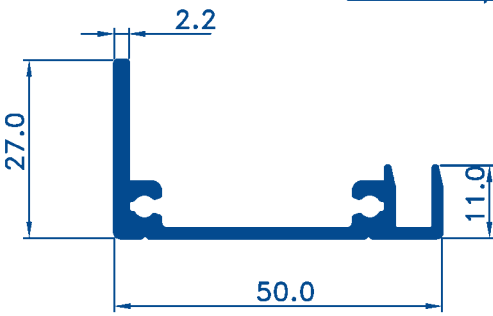
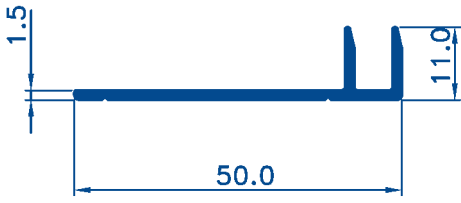
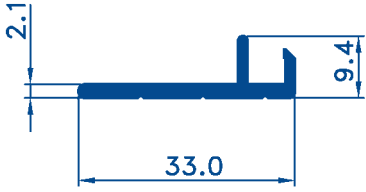
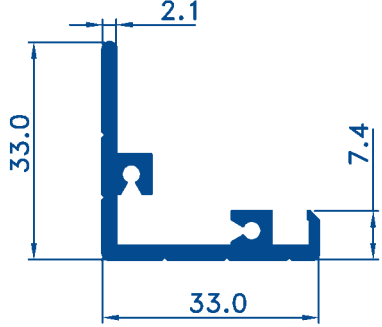
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Chennai - 600 016, India



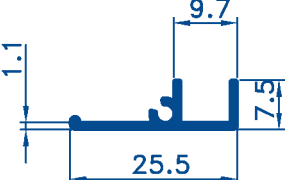
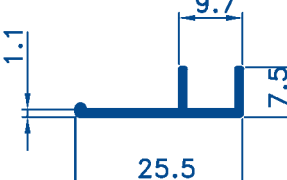
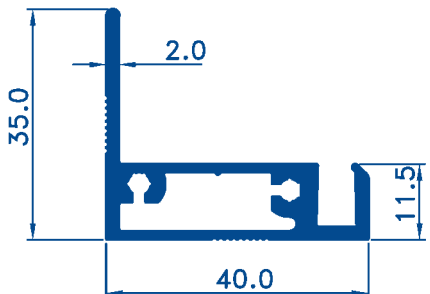
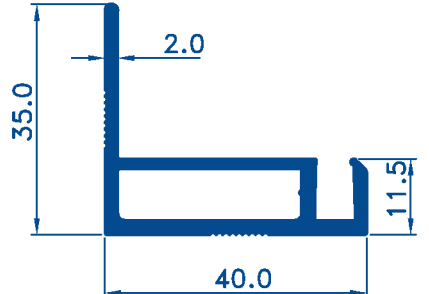
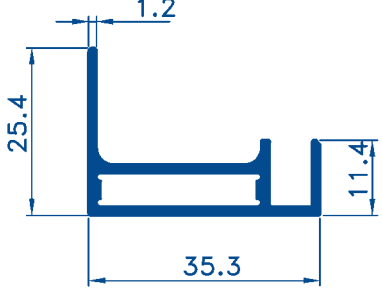
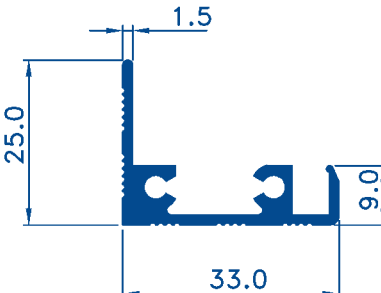
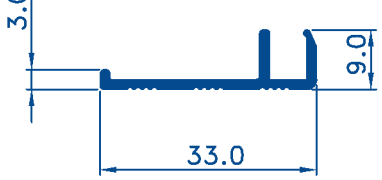
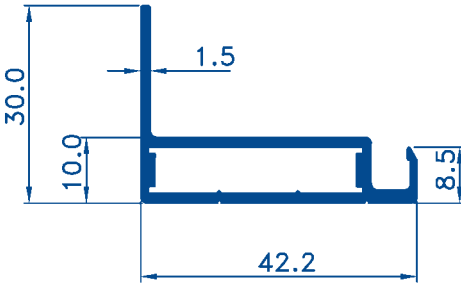
Sivadasan Madiyath
Management Representative

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

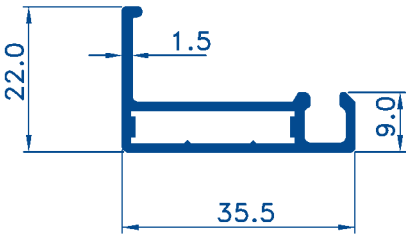
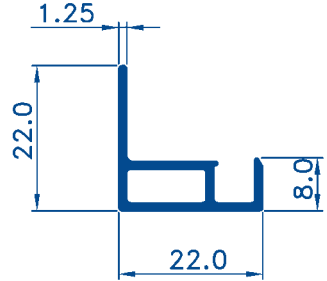
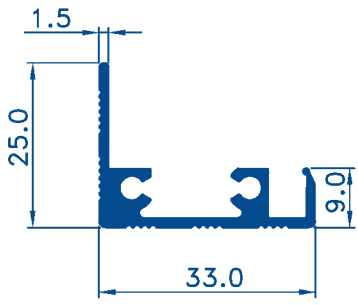
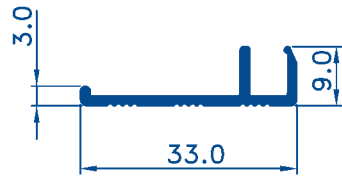
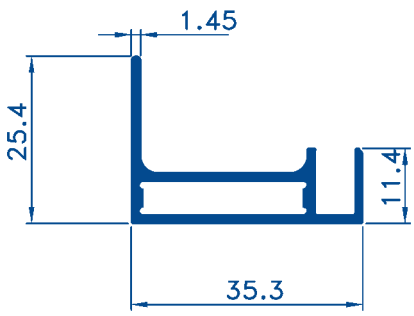
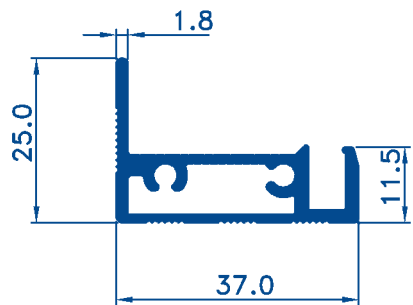
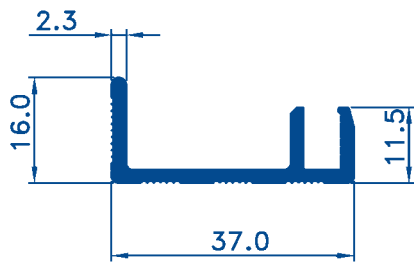
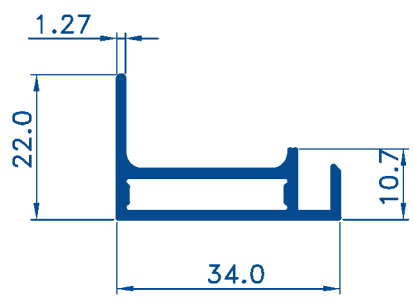


<p>D-4162 0.208KG./M.</p> 	<p>D-4163 0.459KG./M.</p> 
<p>D-4425 0.338KG./M.</p> 	<p>D-4426 0.602KG./M.</p> 
<p>D-4590 0.524KG./M.</p> 	<p>D-4591 0.262KG./M.</p> 
<p>D-4599 0.228KG./M.</p> 	<p>D-4600 0.487KG./M.</p> 

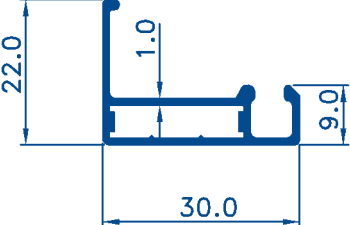
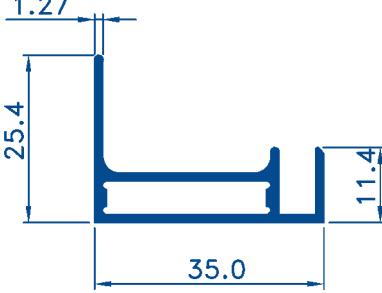
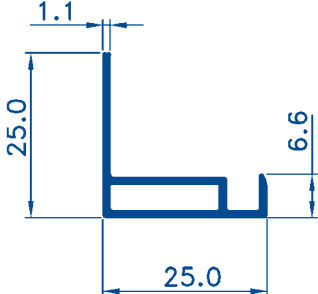
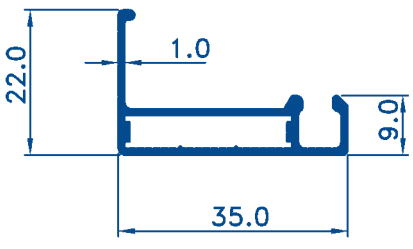
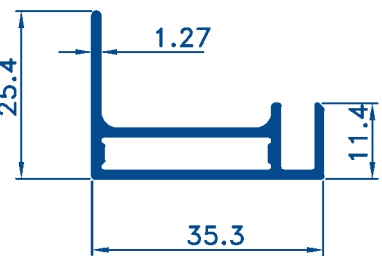
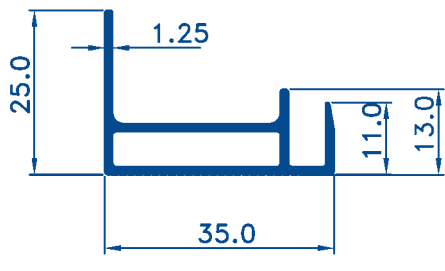
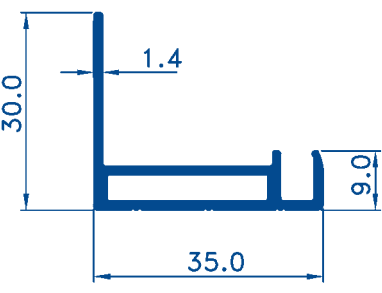
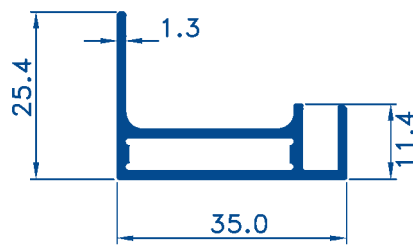
ALL DIMENSIONS ARE IN MM.

<p><u>D-4723</u> <u>0.129KG./M.</u></p> 	<p><u>D-4724</u> <u>0.116KG./M.</u></p> 
<p><u>D-4816</u> <u>0.634KG./M.</u></p> 	<p><u>D-4817</u> <u>0.618KG./M.</u></p> 
<p><u>D-4894</u> <u>0.374KG./M.</u></p> 	<p><u>D-5149</u> <u>0.402KG./M.</u></p> 
<p><u>D-5150</u> <u>0.188KG./M.</u></p> 	<p><u>D-5362</u> <u>0.495KG./M.</u></p> 

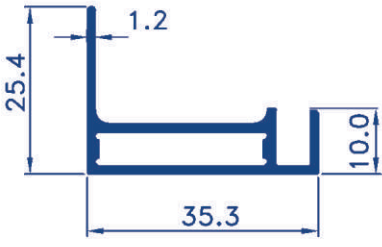
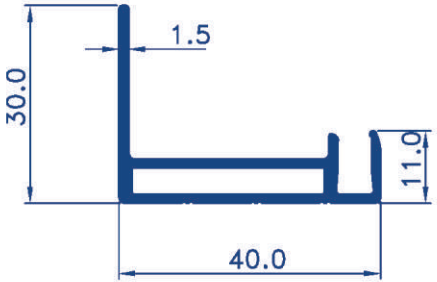
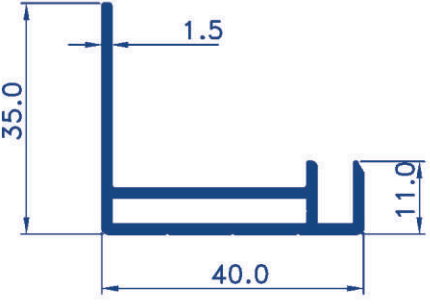
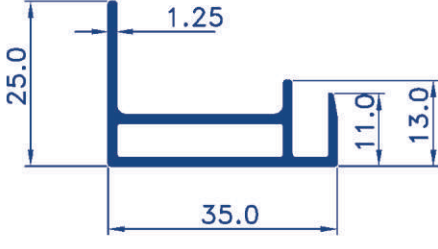
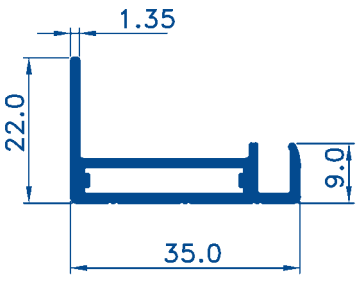
ALL DIMENSIONS ARE IN MM.

<p>D-5464 <u>0.366KG./M.</u></p> 	<p>D-5476 <u>0.230KG./M.</u></p> 
<p>D-5527 <u>0.396KG./M.</u></p> 	<p>D-5528 <u>0.187KG./M.</u></p> 
<p>D-5628 <u>0.387KG./M.</u></p> 	<p>D-5675 <u>0.509KG./M.</u></p> 
<p>D-5676 <u>0.369KG./M.</u></p> 	<p>D-5975 <u>0.344KG./M.</u></p> 

ALL DIMENSIONS ARE IN MM.

<p><u>D-6169</u> <u>0.267KG./M.</u></p> 	<p><u>D-6195</u> <u>0.375KG./M.</u></p> 
<p><u>D-6196</u> <u>0.221KG./M.</u></p> 	<p><u>D-6237</u> <u>0.294KG./M.</u></p> 
<p><u>D-6361</u> <u>0.378KG./M.</u></p> 	<p><u>D-6555</u> <u>0.356KG./M.</u></p> 
<p><u>D-6605</u> <u>0.393KG./M.</u></p> 	<p><u>D-6647</u> <u>0.382KG./M.</u></p> 

ALL DIMENSIONS ARE IN MM.

<p>D-6665 <u>0.367KG./M.</u></p> 	<p>D-6821 <u>0.449KG./M.</u></p> 
<p>D-6847 <u>0.482KG./M.</u></p> 	<p>D-6873 <u>0.356KG./M.</u></p> 
<p>D-7031 <u>0.372KG./M.</u></p> 	

ALL DIMENSIONS ARE IN MM.

<p>D-4895 0.626KG./M.</p>	<p>D-5297 0.950KG./M.</p>
<p>D-5363 1.325KG./M.</p>	<p>D-5976 0.940KG./M.</p>
<p>D-6278 0.647KG./M.</p>	<p>D-6556 0.648KG./M.</p>
<p>D-6606 0.715KG./M.</p>	

ALL DIMENSIONS ARE IN MM.

CORPORATE OFFICE

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E-mail: marketing@indoalusys.com, info@indoalusys.com
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WORKS

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



For Marketing Enquiry Contact Corporate Office