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OFFICE



Rampur, Bijay Nagar
Kamrup (Assam)

ABOUT THE COMPANY

With an installed production capacity of 300MT per month, HERRLICH ALUMIN is one of the largest integrated aluminium extrusion manufacturers in the North East India. Our state of art manufacturing facility includes cutting edge German Aluminium Extrusion Press of 1250 UST capacity, a billet casting facility (Hot Topcasting) imported from Germany, Latest Anodising Plant and Robotic Powder Coating Machinery from Taiwan. We also have a modern tool shop equipped with the latest CNC, EDM wire cut and other ancillary equipments.

By adopting the latest technologies in our foundry, our aluminium profiles uncompromisingly have superior surface finish, and good chemical and mechanical properties that meet international standards. We use 'Spectro Analysis' through an international standard Spectrometer at every stage of our Casting Process to maintain standard and custom specifications with strict Chemical Properties adherence. Similarly, our inhouse tool shop assures us superior quality dies which are being used to produce intricate customised designs.

HERRLICH ALUMIN only uses the high quality virgin ingot procured from HINDALCO and NALCO to produce the superior quality product with luxury finish and High Temper finished products.

Our Press is equipped with an automatic gauge control system (AGC) to maintain the output thickness as per required specifications. We have also installed an X-ray gauge checking system by Mesacon-Germany and an Automatic Flatness Controller system (AFC) from Achenbach, Germany due to which the products exceed any international standards required by the most demanding applications.

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VISION

"HERRLICH ALUMIN envisions to focus on new innovations and economic solutions to fulfill challenging and competitive demands of the Aluminum Extrusions market." "At HERRLICH ALUMIN we strive to create value by making continuous improvements and nurturing a winning network of customers becoming a highly effective, lean and fast-moving organization."





QUALITY

HERRLICH ALUMIN 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.

ANODIZING

HERRLICH ALUMIN 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 we have processes for various other colours to suit the requirement of its customers with upto 30 microns and length upto 6.2 meters.

POWER COATING

HERRLICH ALUMIN 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

We 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-violetrays.
- 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 IS Standard. 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

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



Certificate of Registration

This is to Certify that The Quality Management Systems of



JDB IMUNUM INDUSTRIES

HOUSE NO 29B, GAURAV BHAWAN, 4TH FLOOR, D
NEOG PATH, ABC GS ROAD, GUWAHATI- 781005 ASSAM

Has been assessed and found to conform to the requirements of:

9001:2015

For the following scope

MANUFACTURING OF ALUMINIUM PROFILE,
SECTIONS, PIPE, WINDOWS ETC

Certificate Number: TSNUK69163
Date of certification: 06-01-2023
1st Surveillance Audit date: 07-01-2024
2nd Surveillance Audit date: 07-01-2025
Certificate Expiry: 07-01-2026

Signed on Behalf of TSN Certification Private Limited




Director of Certifications

TSN Certification Private Limited
Registered with The Registrar of Companies for England and Wales (UK), Registration No. 13793893
UK Address: 17 King Edwards Road, College House, Ruislip, London, United Kingdom, HA4 7AE (UK)
India Address: 5/33, Ground Floor, Vineet Khand-5, Gomti Nagar, Lucknow, Uttar Pradesh-226010

The certificate remains the property of TSN Certification Limited to whom it must be returned on request. Lack of fulfillment of certification terms and conditions at all times, may render this certificate invalid. The approval is subject to the company maintaining its system to the required standards. This certificate can be verified at www.tsncertification.com

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EUAS - Euro Universal Accreditation Systems
USA Address: 1401 Morris Road, Building 1, Suite 600, Alpharetta, GA 30004, Georgia, (USA)
Website: www.euas-ac.org




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ALUMINIUM EXTRUSIONS

Step #1: The Extrusion Die is Prepared and Moved to the Extrusion Press

First, a round-shaped die is machined from H13 steel. Or, if one is already available, it is pulled from a warehouse. Before extrusion, the die must be preheated to between 450-500 degrees celsius to help maximize its life and ensure even metal flow. Once the die has been preheated, it can be loaded into the extrusion press.

Step #2: An Aluminum Billet is Preheated Before Extrusion

Next, a solid, cylindrical block of aluminum alloy, called a billet, is cut from a longer log of alloy material. It is preheated in an oven, like this one, to between 400-500 degrees celsius. This makes it malleable enough for the extrusion process but not molten.

Step #3: The Billet is Transferred to the Extrusion Press

Once the billet has been preheated, it is transferred mechanically to the extrusion press. Before it is loaded onto the press, a lubricant (or release agent) is applied to it. The release agent is also applied to the extrusion ram, to prevent the billet and ram from sticking together.

Step #4: The Ram Pushes the Billet Material into the Container

Now, the malleable billet is loaded into the extrusion press, where the hydraulic ram applies up to 15,000 tons of pressure to it. As the ram applies pressure, the billet material is pushed into the container of the extrusion press. The material expands to fill the walls of the container.

Step #5: The Extruded Material Emerges Through the Die

As the alloy material fills the container, it is now being pressed up against the extrusion die. With continual pressure being applied to it, the aluminum material has nowhere to go except out through the opening(s) in the die. It emerges from the die's opening in the shape of a fully-formed profile.

Step #6: Extrusions are Guided Along the Runout Table and Quenched

After emerging, the extrusion is gripped by a puller, like the one you see here, which guides it along the runout table at a speed that matches its exit from the press. As it moves along the runout table, the profile is "quenched," or uniformly cooled by a water bath or by fans above the table.

Step #7: Extrusions are Sheared to Table Length

Once an extrusion reaches its full table length, it is sheared by a hot saw to separate it from the extrusion process. At every step of the process, temperature plays an important role. Although the extrusion was quenched after exiting the press, it has not yet fully cooled.

Step #8: Extrusions are Cooled to Room Temperature

After shearing, table-length extrusions are mechanically transferred from the runout table to a cooling table, like the one you see here. The profiles will remain there until they reach room temperature. Once they do, they will need to be stretched.

Step #9: Extrusions are Moved to the Stretcher and Stretched into Alignment

Some natural twisting has occurred in the profiles and this needs to be corrected. To correct this, they are moved to a stretcher. Each profile is mechanically gripped on both ends and pulled until it is fully straight and has been brought into specification.

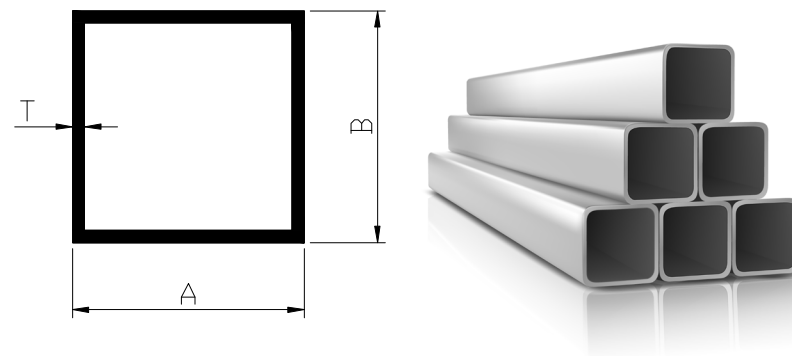
Step #10: Extrusions are Moved to the Finish Saw and Cut to Length

With the table-length extrusions now straight and fully work-hardened, they are transferred to the saw table. Here, they are sawed to pre-specified lengths, generally between 8 and 21 feet long. At this point, the properties of the extrusions match the T4 temper. After sawing, they can be moved to an aging oven to be aged to the T5 or T6 temper.

Once extrusion is completed, profiles can be heat treated to enhance their properties. Then, after heat treatment, they can receive various surface finishes to enhance their appearance and corrosion protection. They can also undergo fabrication operations to bring them to their final dimensions.

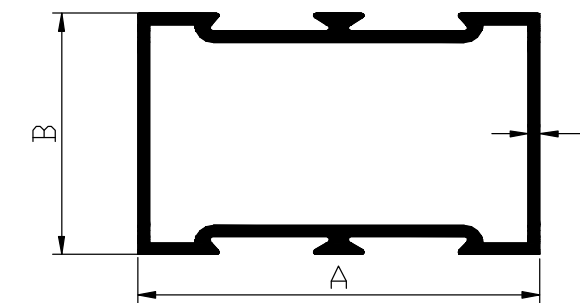
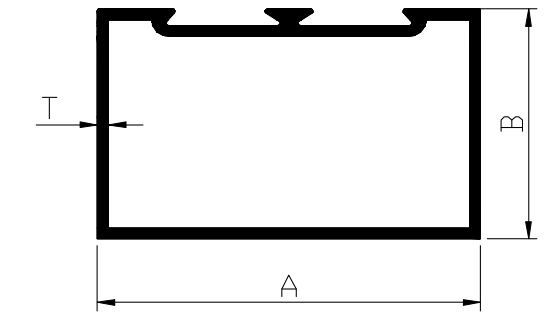
SQUARE TUBE

| Sec. No. | A | T | Cut | Wt. Range |
|----------|----|-----|------|-----------|
| 1011 | 19 | 0.7 | 12Ft | 0.45-0.55 |
| 1013 | 19 | 0.8 | 12Ft | 0.65-0.75 |
| 1015 | 19 | 1.2 | 12Ft | 1.10-1.30 |
| 1021 | 25 | 0.7 | 12Ft | 0.60-0.70 |
| 1023 | 25 | 0.9 | 12Ft | 0.75-0.85 |
| 1025 | 38 | 0.9 | 12Ft | 1.30-1.50 |
| 1031 | 50 | 1.3 | 12Ft | 2.50-2.80 |
| 1032 | 50 | 2 | 12Ft | 3.50-3.80 |
| 1041 | 70 | 1.5 | 12Ft | 3.70-4.00 |



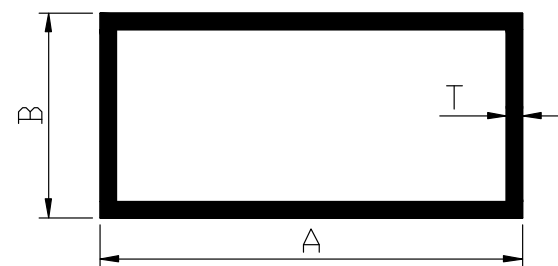
SINGLE PARTITION

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|-----|----|-----|------|-----------|
| 2101 | 50 | 25 | 0.8 | 16Ft | 1.70-1.90 |
| 2103 | 50 | 25 | 1 | 16Ft | 2.00-2.20 |
| 2111 | 63 | 38 | 0.8 | 16Ft | 2.20-2.50 |
| 2113 | 63 | 38 | 0.9 | 16Ft | 2.50-2.75 |
| 2115 | 63 | 38 | 1 | 16Ft | 2.80-3.00 |
| 2117 | 63 | 38 | 1.2 | 16Ft | 3.00-3.30 |
| 2118 | 63 | 38 | 1.5 | 16Ft | 3.70-4.00 |
| 2119 | 63 | 38 | 1.5 | 16Ft | 4.20-4.40 |
| 2120 | 63 | 38 | 1.8 | 16Ft | 5.20-5.40 |
| 2151 | 101 | 44 | 1.2 | 16Ft | 4.80-5.00 |
| 2153 | 101 | 44 | 1.4 | 16Ft | 5.30-5.50 |
| 2155 | 101 | 44 | 2 | 16Ft | 7.70-7.90 |



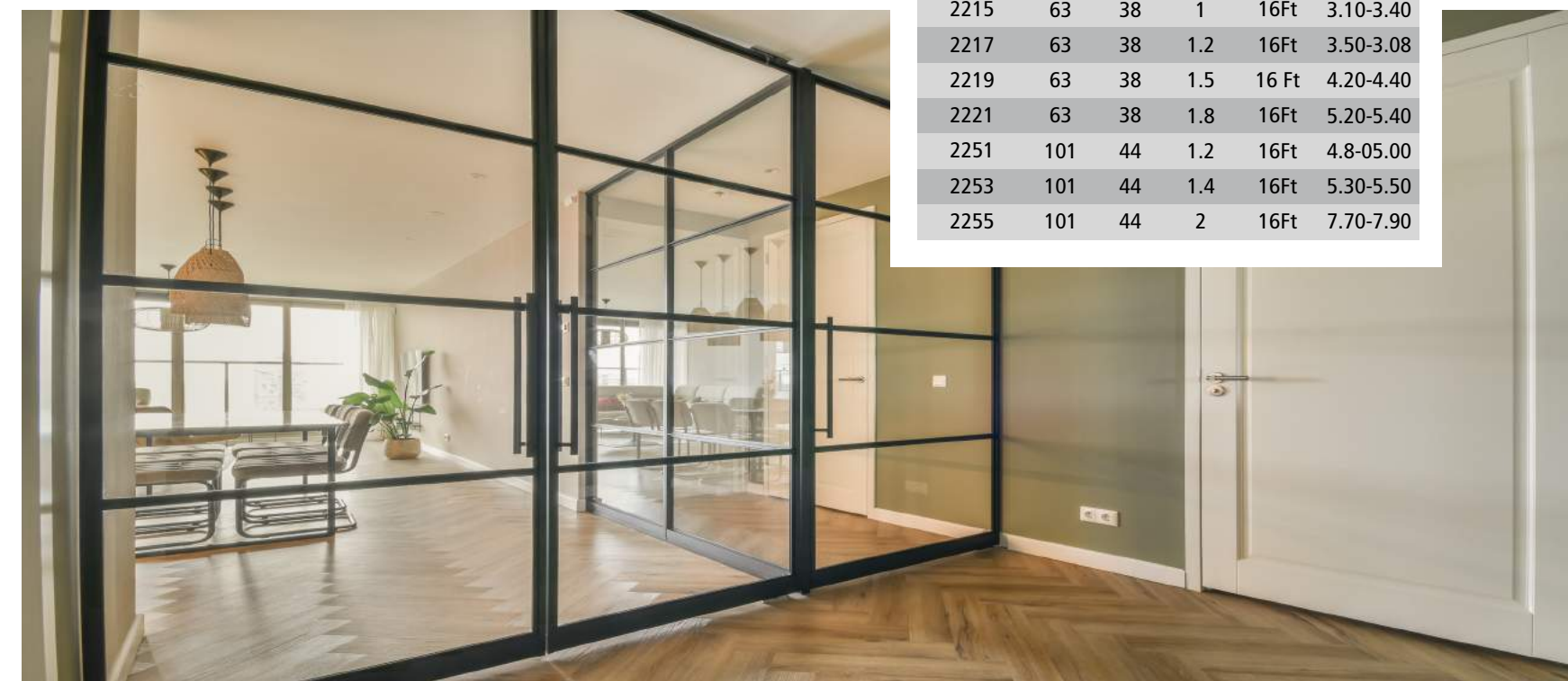
DOUBLE PARTITION

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|-----|----|-----|------|-----------|
| 2201 | 50 | 25 | 0.8 | 16Ft | 1.70-1.90 |
| 2203 | 50 | 25 | 0.9 | 16Ft | 2.00-2.20 |
| 2211 | 63 | 38 | 0.8 | 16Ft | 2.40-2.70 |
| 2213 | 63 | 38 | 0.9 | 16Ft | 2.70-3.00 |
| 2215 | 63 | 38 | 1 | 16Ft | 3.10-3.40 |
| 2217 | 63 | 38 | 1.2 | 16Ft | 3.50-3.08 |
| 2219 | 63 | 38 | 1.5 | 16Ft | 4.20-4.40 |
| 2221 | 63 | 38 | 1.8 | 16Ft | 5.20-5.40 |
| 2251 | 101 | 44 | 1.2 | 16Ft | 4.8-05.00 |
| 2253 | 101 | 44 | 1.4 | 16Ft | 5.30-5.50 |
| 2255 | 101 | 44 | 2 | 16Ft | 7.70-7.90 |



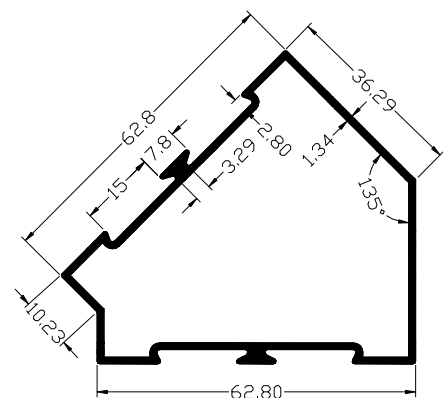
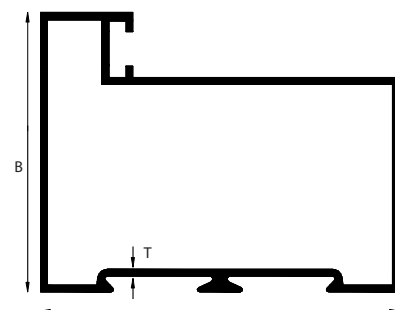
RECTANGULAR TUBE

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|-----|----|------|------|-----------|
| 1101 | 36 | 23 | 0.65 | 12Ft | 0.65-0.75 |
| 1111 | 38 | 25 | 0.7 | 12Ft | 0.85-0.95 |
| 1112 | 38 | 25 | 1.2 | 12Ft | 1.04-1.50 |
| 1113 | 38 | 25 | 1.5 | 12Ft | 1.80-2.00 |
| 1115 | 25 | 12 | 2 | 12Ft | 1.20-1.40 |
| 1121 | 50 | 25 | 0.9 | 12Ft | 1.20-1.40 |
| 1123 | 50 | 25 | 1.3 | 12Ft | 1.70-2.00 |
| 1124 | 50 | 25 | 2 | 12Ft | 2.80-3.20 |
| 1125 | 50 | 12 | 2 | 12Ft | 2.30-2.60 |
| 1131 | 63 | 38 | 0.9 | 12Ft | 1.70-2.00 |
| 1133 | 63 | 38 | 1.3 | 12Ft | 2.60-3.00 |
| 1141 | 70 | 16 | 2 | 12Ft | 3.00-3.30 |
| 1151 | 100 | 30 | 1.5 | 12Ft | 3.50-3.80 |



SINGLE PARTITION LEG

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 2300 | 63 | 50 | 1 | 16Ft | 3.00-3.30 |
| 2301 | 63 | 50 | 1.2 | 16Ft | 3.90-4.20 |

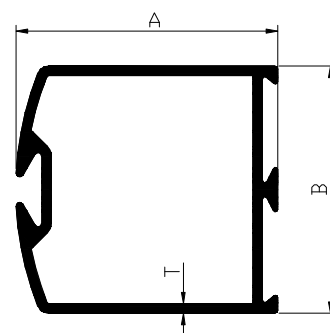


SAMOSA PARTITION

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 2401 | 63 | 67 | 1.2 | 16Ft | 4.01-4.40 |

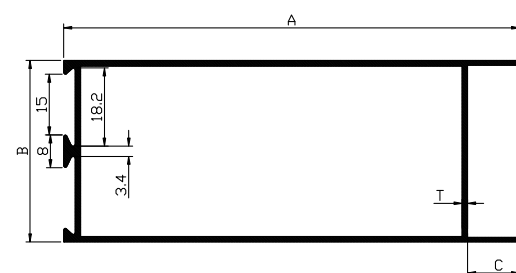
DOOR VERTICAL

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|------|------|-----------|
| 3001 | 48 | 45 | 0.8 | 14Ft | 2.20-2.40 |
| 3003 | 48 | 45 | 1.1 | 14Ft | 2.70-2.90 |
| 3005 | 48 | 45 | 1.35 | 14Ft | 3.10-3.40 |
| 3011 | 85 | 45 | 1.3 | 14Ft | 4.00-4.50 |
| 3013 | 85 | 45 | 1.6 | 14Ft | 5.00-5.40 |



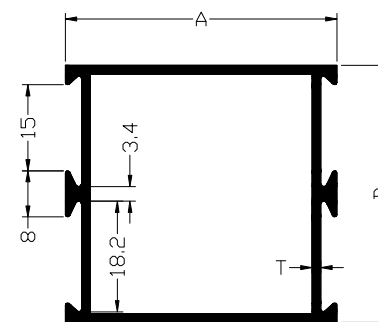
DOOR TOP & BOTTOM

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|-----|----|-----|------|-----------|
| 3101 | 48 | 45 | 1 | 16Ft | 2.70-3.00 |
| 3103 | 48 | 45 | 1.2 | 16Ft | 3.20-3.50 |
| 3105 | 48 | 45 | 1.5 | 16Ft | 3.70-4.10 |
| 3111 | 85 | 44 | 1.2 | 16Ft | 4.40-4.70 |
| 3113 | 85 | 44 | 1.9 | 16Ft | 5.40-5.90 |
| 3121 | 114 | 44 | 1 | 16Ft | 4.50-5.00 |
| 3123 | 114 | 44 | 1.5 | 16Ft | 6.40-6.70 |



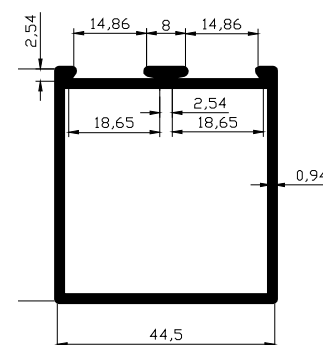
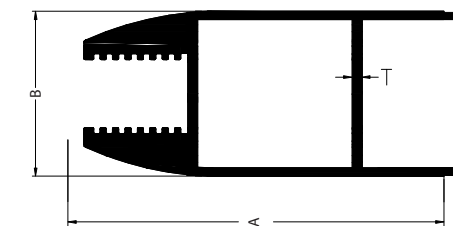
DOOR MIDDLE DOUBLE

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 3201 | 48 | 44 | 1 | 16Ft | 2.70-3.00 |
| 3203 | 48 | 44 | 1.2 | 16Ft | 3.20-3.50 |
| 3205 | 48 | 44 | 1.5 | 16Ft | 4-40.4.00 |
| 3221 | 85 | 44 | 1.2 | 16Ft | 4.50-4.90 |
| 3223 | 85 | 44 | 2 | 16Ft | 7.00-7.50 |



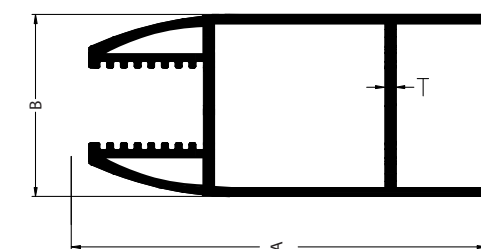
MAGER SOLID

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-------------|
| 3301 | 88 | 40 | 2.5 | 16Ft | 10.40-11.40 |



DOOR MIDDLE SINGLE

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|---|------|-----------|
| 3251 | 48 | 44 | 1 | 16FT | 2.50-2.80 |



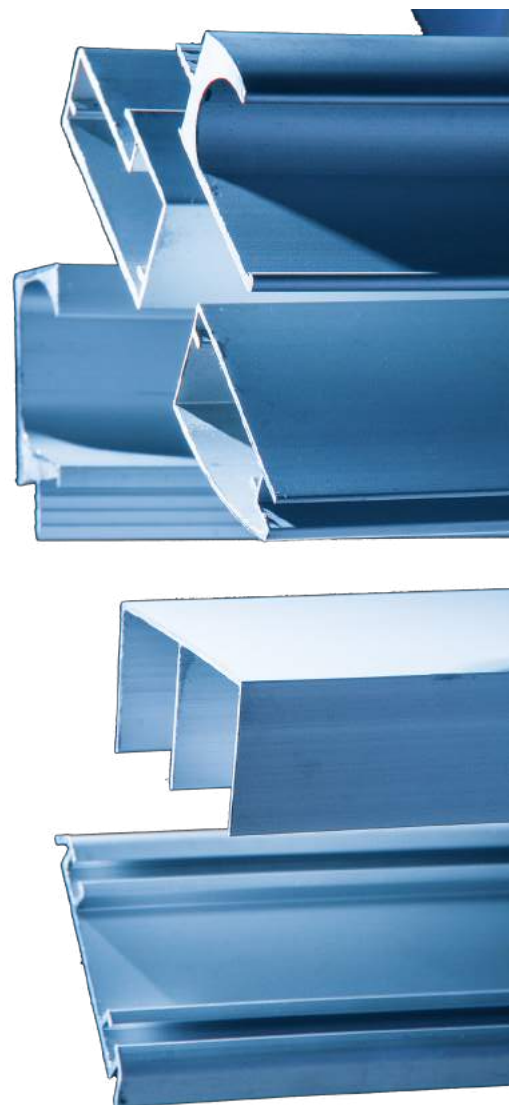
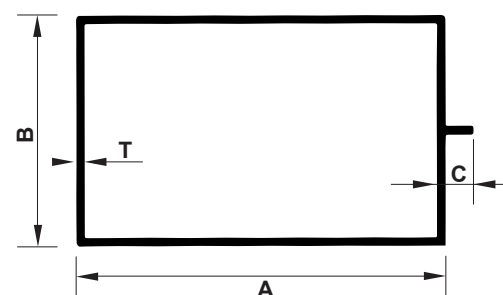
MAGER HOLLOW

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-------------|
| 3311 | 88 | 40 | 2.5 | 16Ft | 10.00-10.80 |

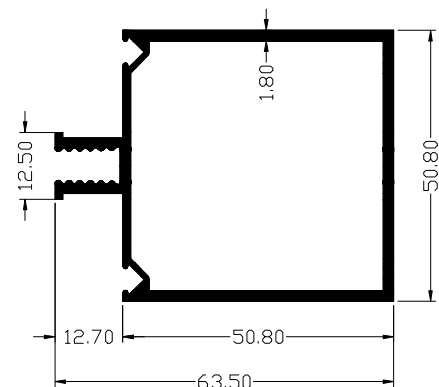


CURTAIN WALL SINGLE CLIP

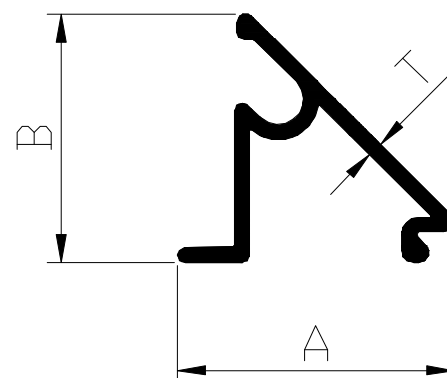
| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 6501 | 50 | 51 | 1 | 16Ft | 2.70-3.00 |
| 6503 | 50 | 51 | 1.4 | 16Ft | 3.40-3.80 |
| 6505 | 50 | 51 | 1.7 | 16Ft | 4.30-4.70 |
| 6511 | 64 | 58 | 1.2 | 16Ft | 4.60-5.00 |


CURTAIN WALL DOUBLE GROUP

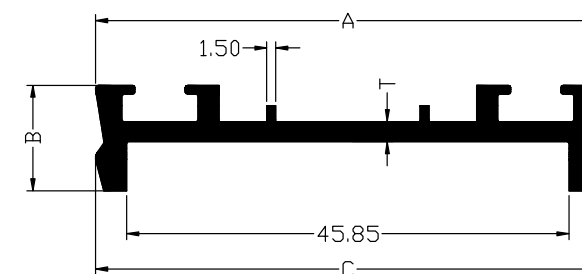
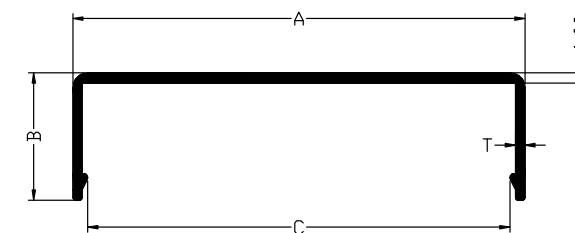
| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 6601 | 48 | 51 | 1.6 | 16Ft | 4.60-5.00 |
| 6603 | 51 | 51 | 1.5 | 16ft | 5.10-5.50 |


GLAZING CLIP

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 8005 | 19 | 17 | 0.4 | 12Ft | 0.19-0.22 |
| 8006 | 19 | 17 | 0.5 | 12Ft | 0.24-0.27 |


COVER PLATE

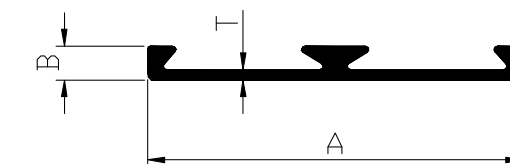
| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 8003 | 55 | 15 | 1.5 | 16Ft | 1.70-1.90 |


PRESSURE PLATE

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|---|-----|------|-----------|
| 8004 | 53 | 8 | 1.6 | 16Ft | 2.00-2.20 |

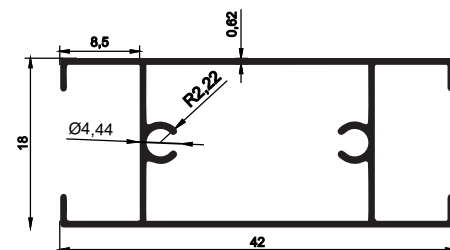
GLAZING PLATE

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|-----|-----|------|-----------|
| 1460 | 44 | 3.2 | 0.8 | 12Ft | 0.45-0.50 |

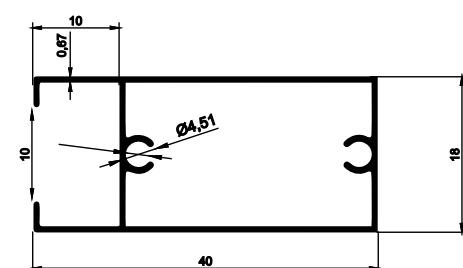
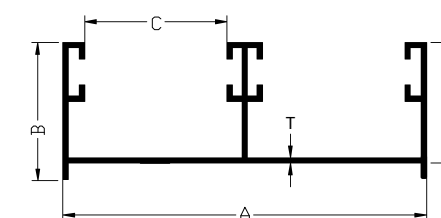



MATTING (18MM)

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 3511 | 42 | 18 | 0.8 | 16Ft | 1.20-1.35 |


TWO TRACK TOP (18MM)

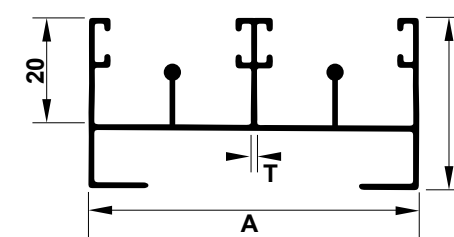
| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 4011 | 62 | 32 | 0.8 | 16Ft | 1.80-2.00 |
| 4015 | 62 | 32 | 1.4 | 16Ft | 3.70-4.00 |


TOP BOTTOM (18MM)

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 3711 | 42 | 18 | 0.8 | 16Ft | 1.20-1.35 |
| 3715 | 42 | 18 | 1.6 | 16Ft | 2.70-3.00 |

HANDLE (18MM)

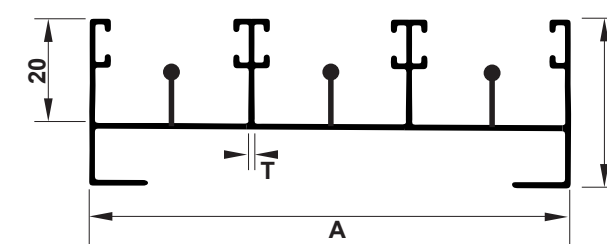
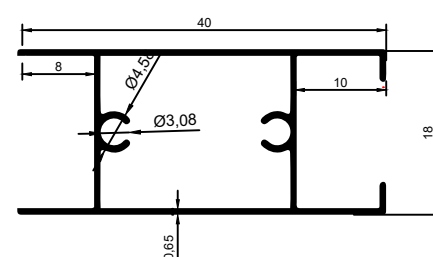
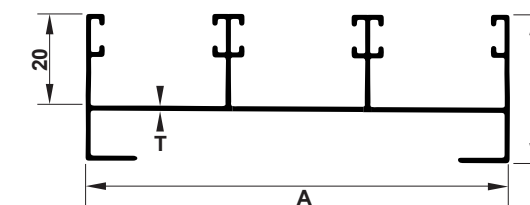
| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 3611 | 42 | 18 | 0.8 | 16Ft | 1.20-1.35 |
| 3615 | 42 | 18 | 1.6 | 16Ft | 2.70-2.90 |


TWO TRACK BOTTOM (18MM)

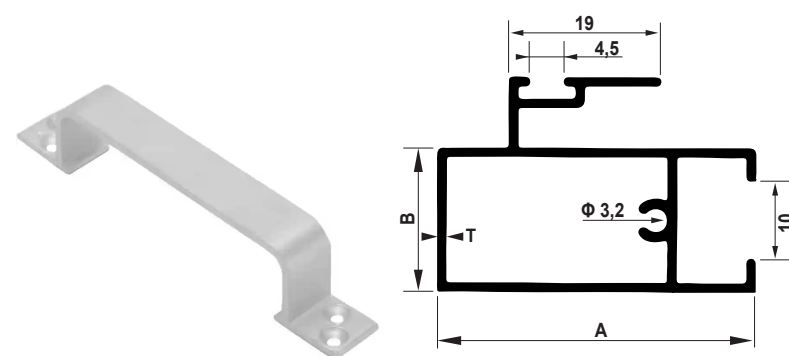
| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 4111 | 62 | 32 | 0.8 | 16Ft | 1.80-2.00 |
| 4115 | 62 | 32 | 1.3 | 16Ft | 3.70-3.95 |

THREE TRACK TOP (18MM)

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 4211 | 92 | 32 | 0.8 | 16Ft | 3.20-3.50 |
| 4215 | 92 | 32 | 1.4 | 16Ft | 5.10-5.40 |


THREE TRACK BOTTOM (18MM)

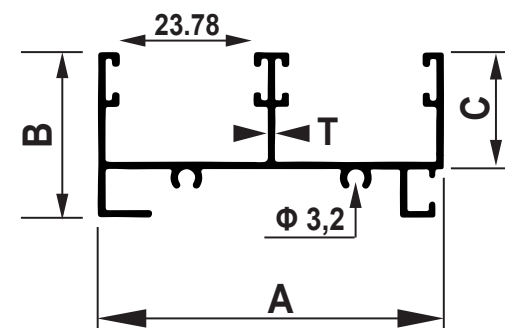
| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 4311 | 92 | 32 | 0.8 | 16ft | 3.20-3.50 |
| 4315 | 92 | 32 | 1.4 | 16ft | 5.30-5.60 |


INTERLOCK 18MM

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 4811 | 40 | 27 | 0.8 | 16ft | 1.40-1.60 |
| 4815 | 40 | 27 | 1.3 | 16ft | 2.70-3.00 |

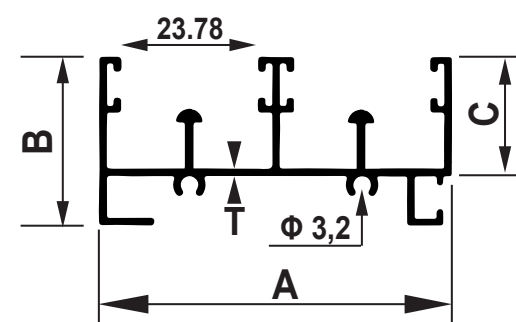
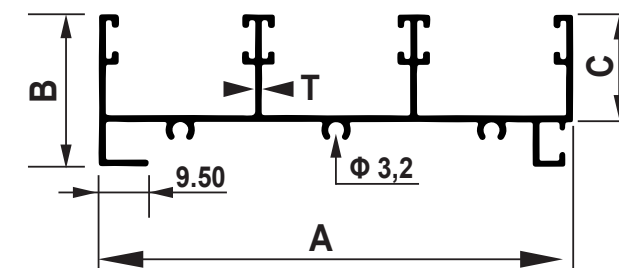
TWO TRACK TOP (WINDOW)

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 4001 | 62 | 30 | 0.9 | 16Ft | 2.00-2.20 |
| 4003 | 62 | 30 | 1 | 16Ft | 2.40-2.70 |
| 4005 | 62 | 30 | 1.2 | 16Ft | 3.00-3.30 |
| 4007 | 62 | 30 | 1.6 | 16Ft | 3.90-4.20 |



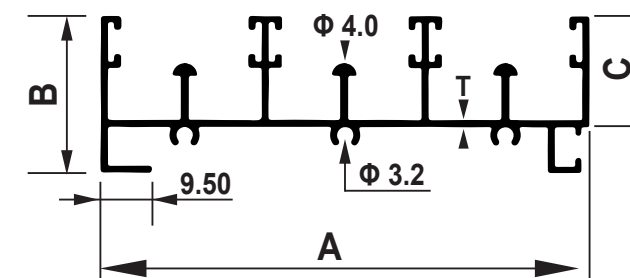
THREE TRACK TOP (WINDOW)

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 4201 | 92 | 30 | 0.9 | 16Ft | 2.70-3.10 |
| 4203 | 92 | 30 | 1 | 16Ft | 3.20-3.50 |
| 4205 | 92 | 30 | 1.2 | 16Ft | 4.20-4.60 |
| 4207 | 92 | 30 | 1.5 | 16Ft | 5.50-6.00 |



TWO TRACK BOTTOM (WINDOW)

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 4101 | 62 | 30 | 0.9 | 16Ft | 2.20-2.60 |
| 4103 | 62 | 30 | 1 | 16Ft | 2.80-3.20 |
| 4105 | 62 | 30 | 1.2 | 16Ft | 3.50-3.90 |
| 4107 | 62 | 30 | 1.6 | 16Ft | 4.50-4.90 |

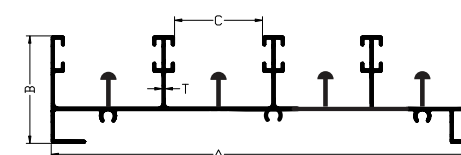
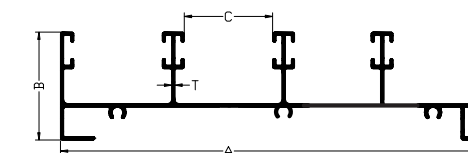


THREE TRACK BOTTOM (WINDOW)

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|------|------|-----------|
| 4300 | 92 | 30 | 0.85 | 16FT | 3.00-3.30 |
| 4301 | 92 | 30 | 0.9 | 16Ft | 3.50-3.90 |
| 4303 | 92 | 30 | 1 | 16Ft | 4.00-4.40 |
| 4305 | 92 | 30 | 1.2 | 16Ft | 4.90-5.30 |
| 4307 | 92 | 30 | 1.5 | 16Ft | 6.20-6.80 |

FOUR TRACK TOP (WINDOW)

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|-----|----|-----|------|-----------|
| 4401 | 123 | 30 | 1.3 | 16Ft | 5.80-6.00 |



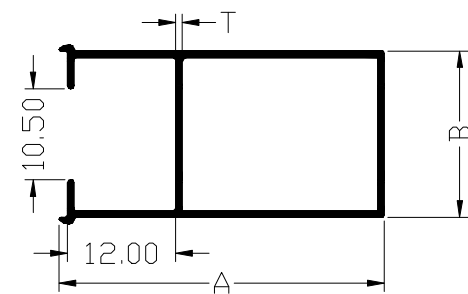
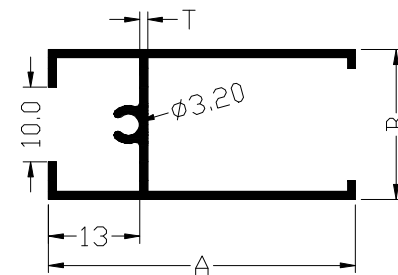
FOUR TRACK BOTTOM (WINDOW)

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|-----|----|-----|------|-----------|
| 4501 | 123 | 30 | 1.3 | 16Ft | 6.60-7.00 |



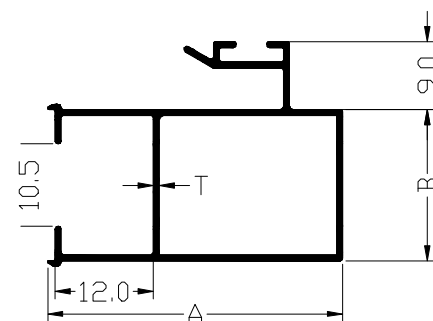
SHUTTER WINDOW

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 4601 | 41 | 20 | 0.8 | 16FT | 1.20-1.40 |
| 4603 | 41 | 20 | 1 | 16Ft | 1.50-1.80 |
| 4605 | 41 | 20 | 1.2 | 16Ft | 1.85-2.10 |
| 4607 | 41 | 20 | 1.5 | 16Ft | 2.20-2.50 |



HANDLE WINDOW

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 4701 | 39 | 20 | 0.8 | 16FT | 1.20-1.40 |
| 4703 | 39 | 20 | 1 | 16Ft | 1.50-1.80 |
| 4705 | 39 | 20 | 1.2 | 16Ft | 1.90-2.20 |
| 4707 | 39 | 20 | 1.5 | 16Ft | 2.40-2.70 |



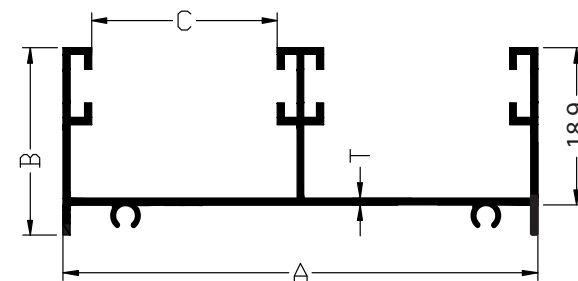
INTERLOCK WINDOW

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 4801 | 39 | 20 | 0.8 | 16FT | 1.40-1.60 |
| 4803 | 39 | 20 | 1 | 16Ft | 1.90-2.20 |
| 4805 | 39 | 20 | 1.2 | 16Ft | 2.30-2.50 |
| 4807 | 39 | 20 | 1.5 | 16Ft | 2.90-3.25 |



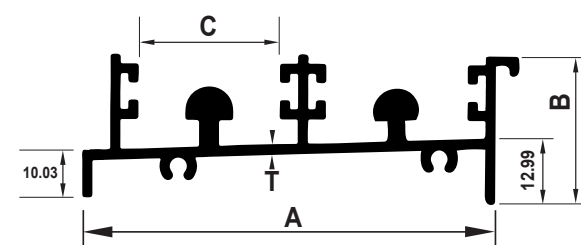
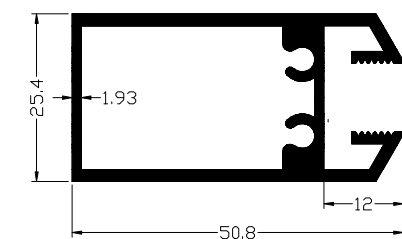
TWO TRACK TOP (DOOR)

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 5101 | 83 | 44 | 1.5 | 16ft | 5.10-5.40 |
| 5103 | 83 | 44 | 1.8 | 16ft | 6.00-6.60 |



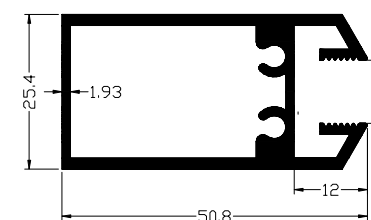
SHUTTER DOOR

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 4611 | 69 | 25 | 1.5 | 16Ft | 4.30-04.6 |



TWO TRACK BOTTOM (DOOR)

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 5201 | 93 | 32 | 1.5 | 16ft | 6.80-7.00 |
| 5203 | 93 | 32 | 1.8 | 16ft | 7.20-7.80 |

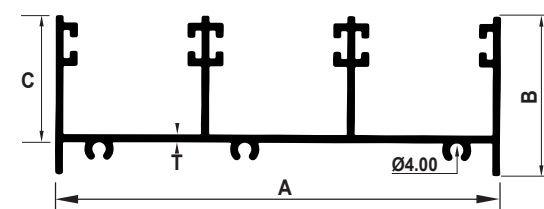


DOOR HANDLE

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 5501 | 51 | 25 | 1.5 | 16Ft | 3.80-4.30 |

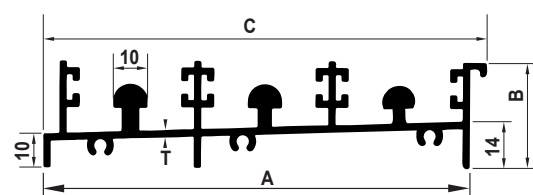
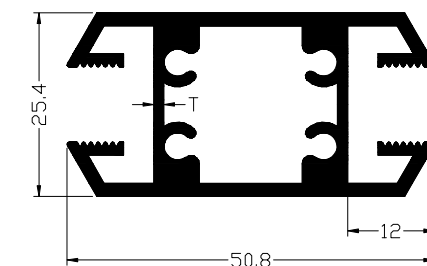
THREE TRACK TOP (DOOR)

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|-----|----|------|------|-----------|
| 5301 | 123 | 44 | 1.75 | 16Ft | 8.40-8.90 |



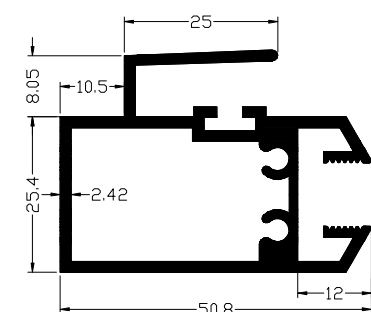
DOOR HANDLE DOUBLE

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 5601 | 51 | 25 | 1.5 | 16Ft | 5.00-5.30 |



THREE TRACK BOTTOM (DOOR)

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|-----|----|------|------|-----------|
| 5401 | 128 | 32 | 1.75 | 16Ft | 10.6-11.5 |

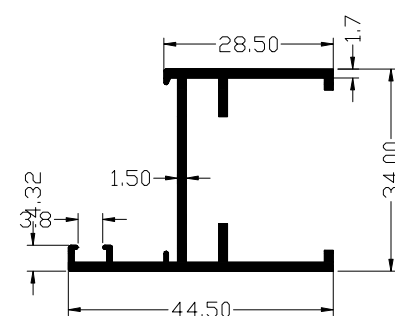
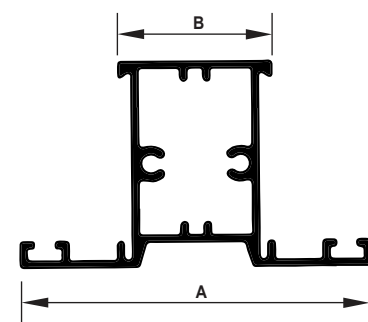


DOOR INTERLOCK

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 5701 | 51 | 25 | 1.5 | 16Ft | 4.40-4.80 |

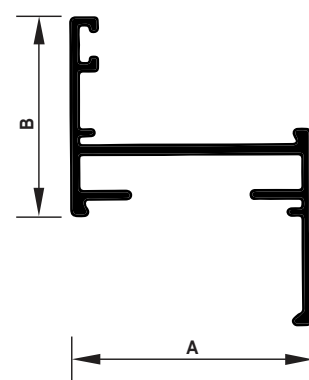
34 SERIES MULLION

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|------|------|-----------|
| 6001 | 57 | 34 | 1.15 | 16F | 2.70-3.00 |
| 6003 | 57 | 34 | 1.3 | 16Ft | 3.10-3.50 |



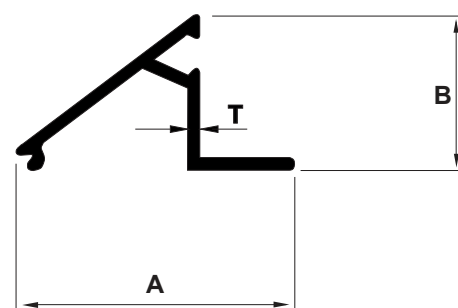
H-LINE (OUTER) 34 SERIES

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 6011 | 34 | 45 | 1.2 | 16F | 2.00-2.30 |
| 6013 | 34 | 45 | 1.4 | 16Ft | 2.30-2.60 |



Z-LINE 34 SERIES

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 6021 | 34 | 45 | 1.3 | 16Ft | 2.00-2.30 |
| 6023 | 34 | 45 | 1.7 | 16Ft | 2.30-2.60 |



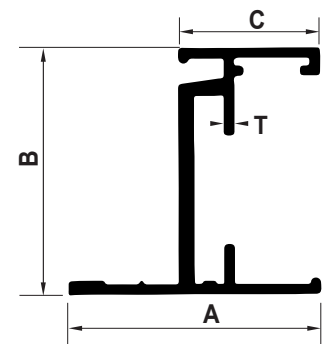
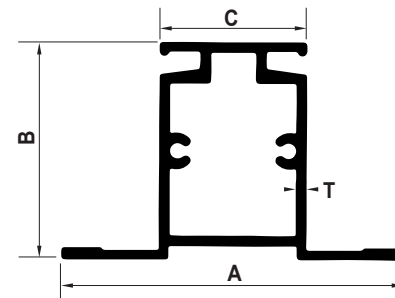
TAPPER CLIT 34 SERIES

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 6031 | 32 | 18 | 0.8 | 12Ft | 0.5-0.55 |
| 6033 | 32 | 18 | 1.2 | 12Ft | 0.6-0.65 |



40 SERIES MULLION

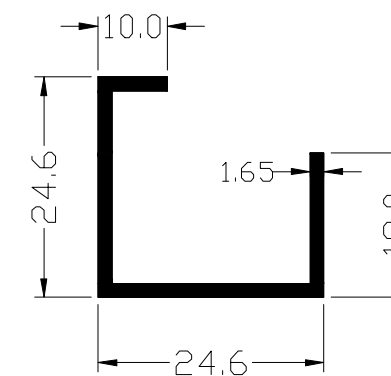
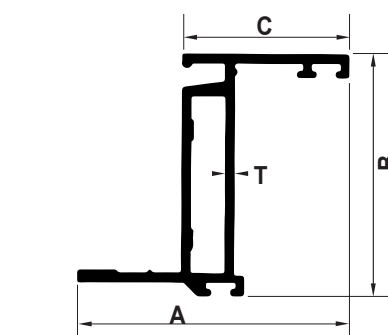
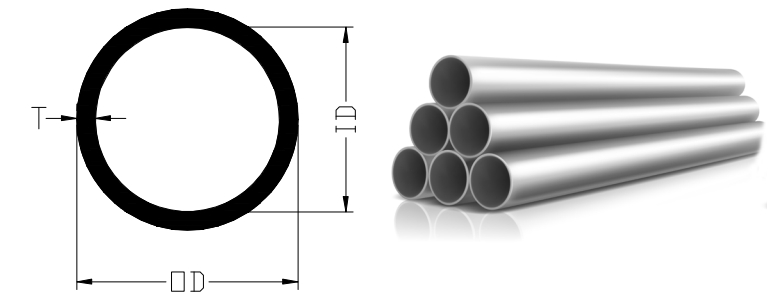
| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 6051 | 63 | 40 | 1.5 | 16Ft | 4.00-4.40 |


40 SERIES H-SECTION

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 6061 | 40 | 41 | 1.2 | 16Ft | 2.10-2.40 |

ROUND TUBE

| Sec. No. | A | T | Cut | Wt. Range |
|----------|----|------|------|------------|
| 1201 | 19 | 1 | 12ft | 0.50- 0.58 |
| 1203 | 19 | 1.5 | 12ft | 0.70- 0.80 |
| 1205 | 19 | 1.65 | 12ft | 0.90- 1.00 |


GLAZING CHANNEL

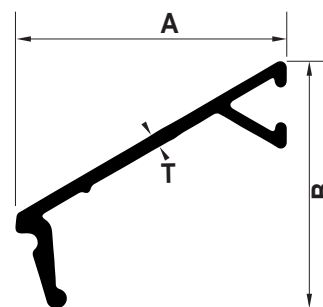
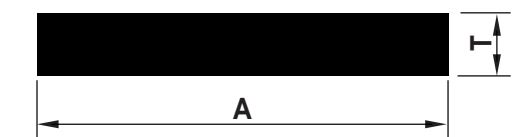
| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 1450 | 40 | 40 | 2.5 | 16ft | 3.60-4.00 |
| 1451 | 40 | 40 | 2 | 16ft | 2.70-3.00 |

40 SERIES Z-HOLLOW

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 6071 | 47 | 40 | 1.2 | 16Ft | 1.90-2.20 |
| 6073 | 47 | 40 | 1.5 | 16Ft | 2.70-3.00 |

FLAT BAR

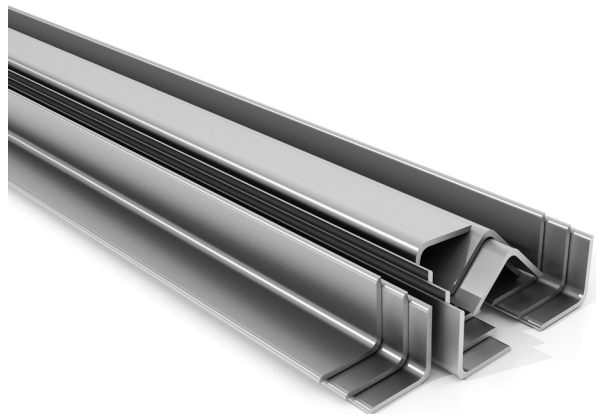
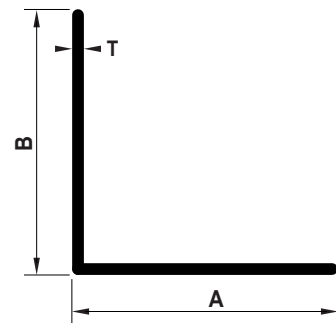
| Sec. No. | A | B | Cut | Wt. Range |
|----------|-----|-----|------|-----------|
| 7001 | 20 | 5 | 12Ft | 1-1 |
| 7006 | 25 | 5 | 12Ft | 1.25- |
| 7007 | 25 | 2.4 | 12Ft | 0.6- |
| 7008 | 25 | 1.5 | 12Ft | 0.375- |
| 7009 | 25 | 1 | 12Ft | 0.25- |
| 7011 | 30 | 5 | 12Ft | 1.5- |
| 7016 | 40 | 5 | 12Ft | 2- |
| 7021 | 50 | 5 | 12Ft | 2.5- |
| 7026 | 60 | 5 | 12Ft | 3- |
| 7031 | 25 | 10 | 12Ft | 2.5- |
| 7036 | 30 | 10 | 12Ft | 3- |
| 7041 | 40 | 10 | 12Ft | 4- |
| 7046 | 50 | 10 | 12Ft | 5- |
| 7051 | 60 | 10 | 12Ft | 6- |
| 7056 | 100 | 10 | 12Ft | 10- |


40 CLIP SERIES

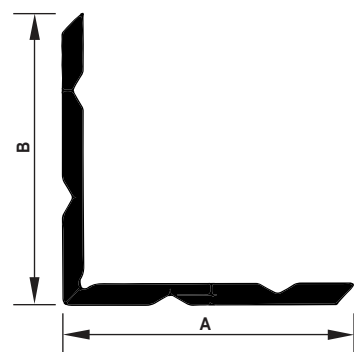
| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 6081 | 25 | 23 | 1.2 | 12Ft | 0.45-0.50 |

ANGLE

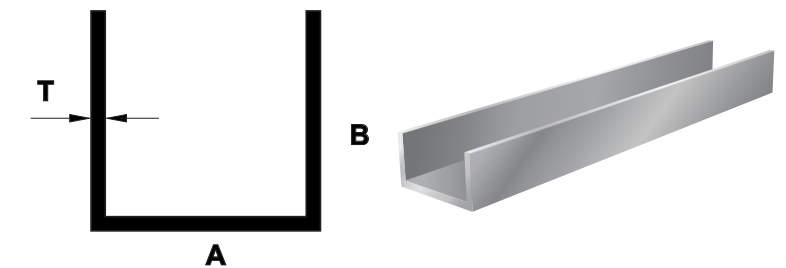
| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|------|------|-----------|
| 7201 | 19 | 19 | 0.85 | 12Ft | 0.50-0.55 |
| 7211 | 25 | 25 | 1.2 | 12Ft | 0.55-0.60 |
| 7213 | 25 | 25 | 2 | 12Ft | 0.90-1.00 |
| 7231 | 38 | 25 | 2.2 | 12Ft | 1.3-01.50 |
| 7233 | 38 | 25 | 3 | 12Ft | 1.80-2.00 |
| 7241 | 50 | 25 | 3 | 12Ft | 2.20-2.50 |
| 7251 | 50 | 50 | 4 | 12Ft | 3.80-4.20 |


CLIT ANGLE

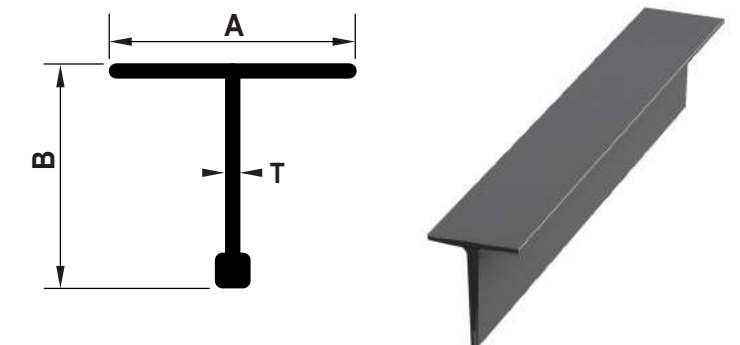
| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|------|------|-----------|
| 7301 | 50 | 50 | 3.75 | 12Ft | 4.40-4.70 |
| 7303 | 50 | 50 | 4.8 | 12Ft | 5.50-6.10 |


U-CHANNEL

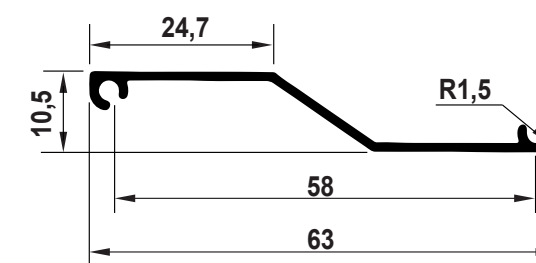
| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|---|------|-----------|
| 8001 | 9 | 9 | 1 | 12Ft | 0.22-0.25 |
| 8002 | 10 | 13 | 1 | 12Ft | 0.32-0.36 |


BULB TEE

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 8007 | 25 | 25 | 0.8 | 12Ft | 0.40-0.45 |

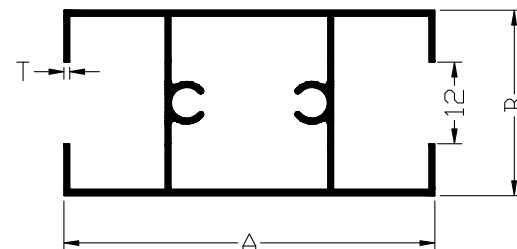

LOUVER

| Sec. No. | A | T | Cut | Wt. Range |
|----------|----|-----|------|-----------|
| 8008 | 63 | 0.8 | 12Ft | 1.10-1.25 |



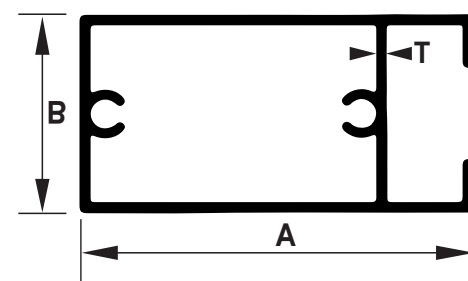
CASEMENT DOOR HANDLE

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 3501 | 50 | 25 | 0.8 | 16Ft | 1.70-2.00 |



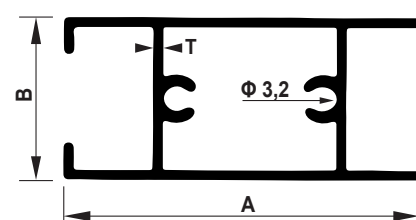
CASEMENT DOOR SHUTTER

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 3601 | 50 | 25 | 0.8 | 16Ft | 1.70-2.00 |
| 3603 | 50 | 25 | 1.2 | 16Ft | 2.80-3.00 |



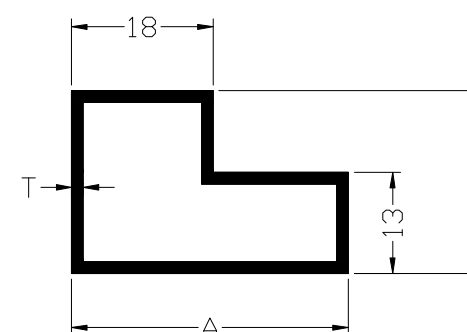
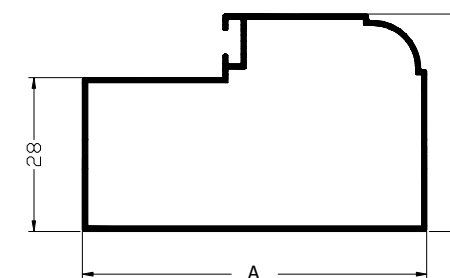
CASEMENT TOP BOTTOM

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 3701 | 50 | 25 | 0.8 | 16Ft | 1.70-1.90 |



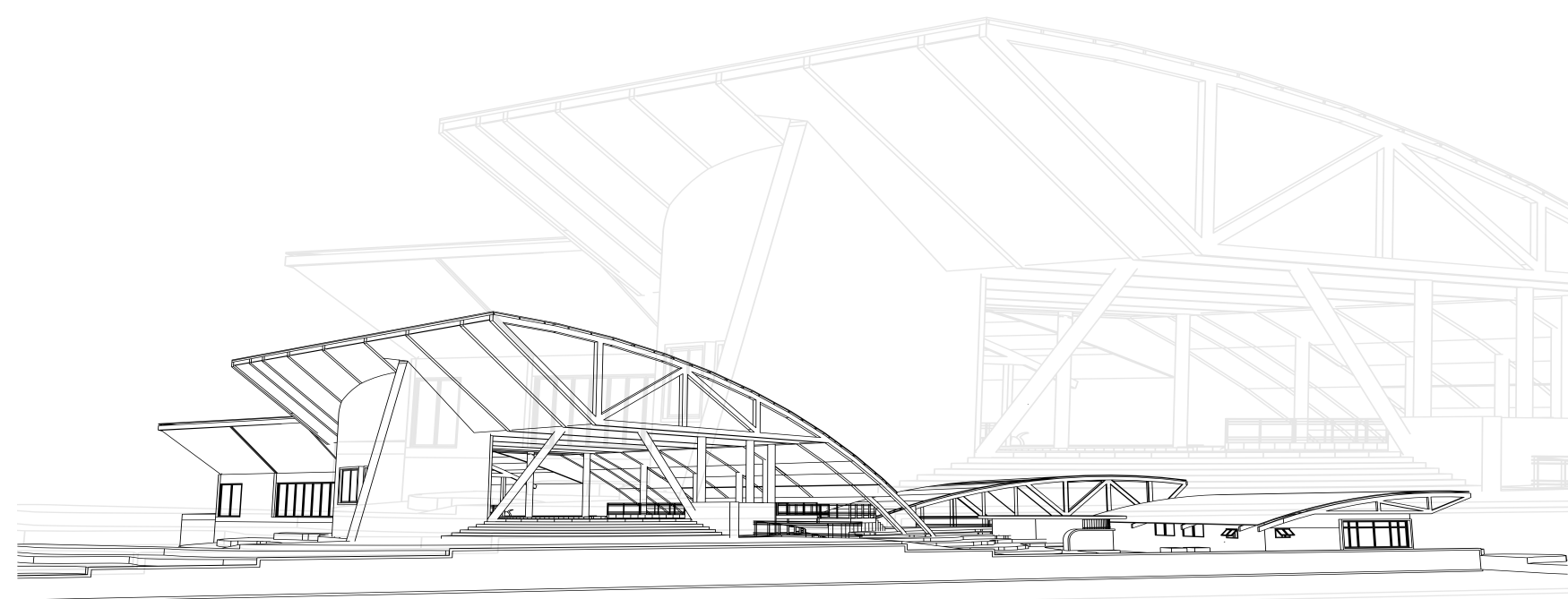
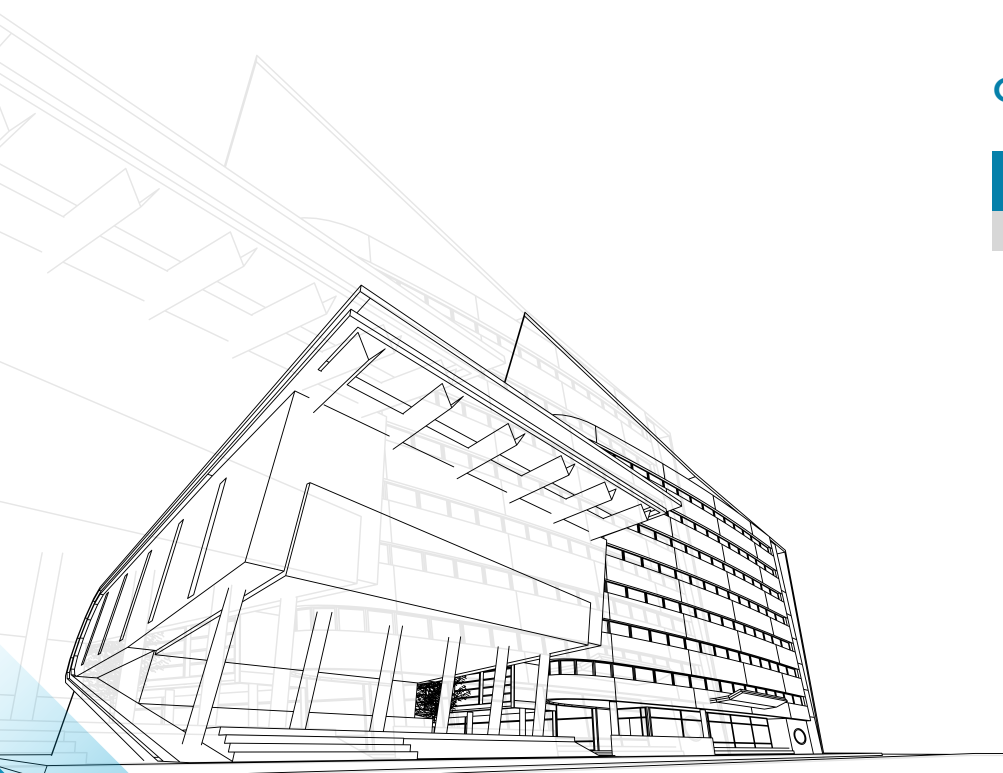
MOULDING CHOWKHAT

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|-----|----|-----|------|-----------|
| 3901 | 54 | 28 | 0.8 | 16Ft | 1.70-2.00 |
| 3903 | 59 | 36 | 0.7 | 16Ft | 1.70-1.90 |
| 3905 | 65 | 38 | 1 | 16Ft | 2.50-2.90 |
| 3906 | 65 | 38 | 1.6 | 16ft | 4.30-4.80 |
| 3911 | 108 | 53 | 3 | 16Ft | 11.50-120 |



L TUBE CHOWKHAT

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 3921 | 53 | 37 | 0.8 | 16ft | 1.80-2.00 |
| 3923 | 38 | 25 | 0.9 | 16FT | 1.35-1.55 |

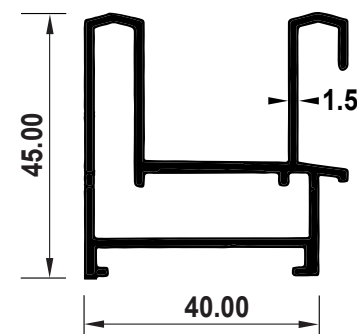


DOMAL TWO TRACK 27MM

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 9001 | 45 | 45 | 1.5 | 16Ft | 4.20-4.60 |

DOMAL TWO TRACK 23MM

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 9003 | 41 | 41 | 1.5 | 16Ft | 3.70-4.00 |

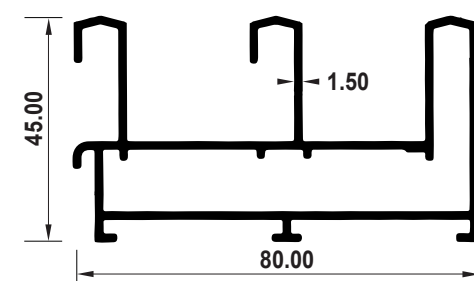
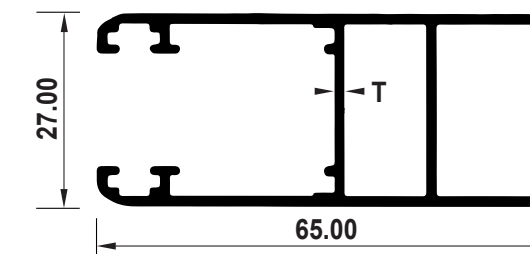


DOMAL SHUTTER 27MM

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 9021 | 65 | 27 | 1.5 | 16Ft | 4.00-4.50 |

DOMAL SHUTTER 23MM

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 9023 | 58 | 23 | 1.5 | 16Ft | 3.50-3.90 |

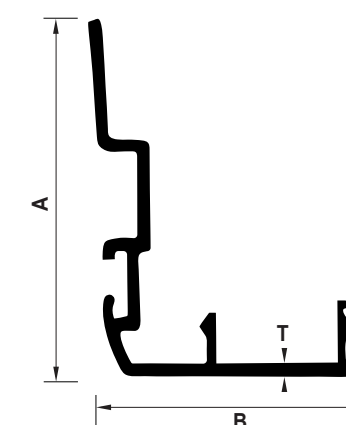


DOMAL THREE TRACK 27MM

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 9011 | 75 | 45 | 1.5 | 16Ft | 6.80-7.50 |

DOMAL THREE TRACK 23MM

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 9013 | 70 | 41 | 1.5 | 16Ft | 5.30-5.70 |

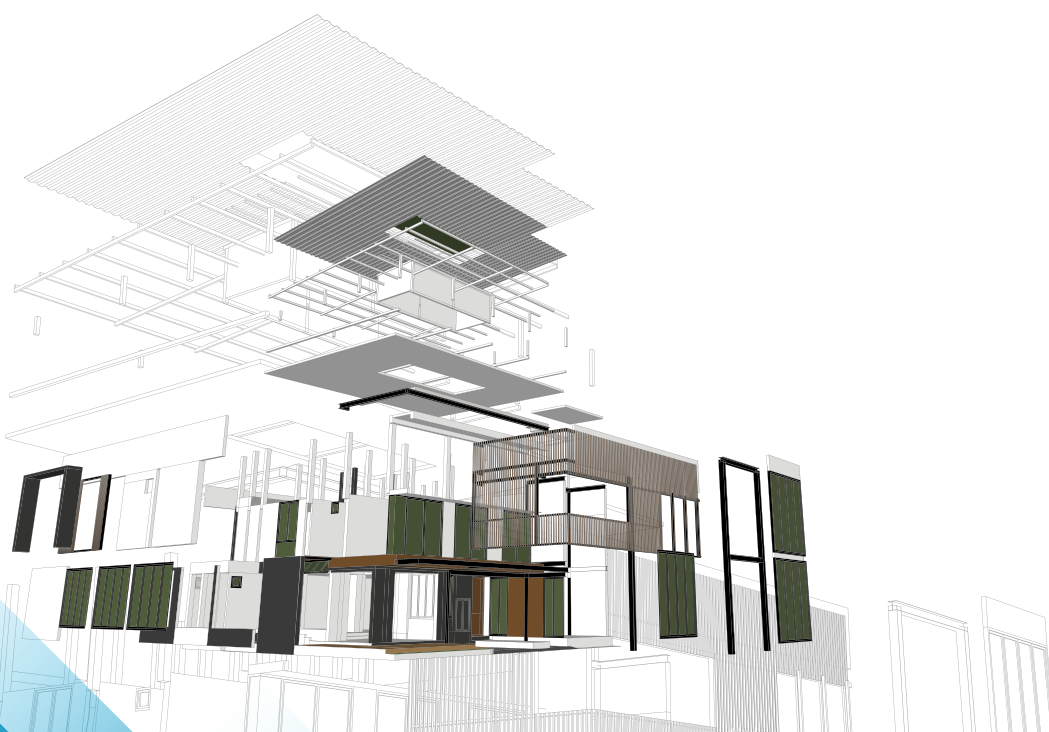


DOMAL CLIP 27MM

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 9031 | 39 | 29 | 1.5 | 16Ft | 1.80-1.90 |

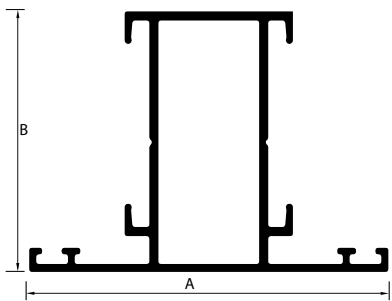
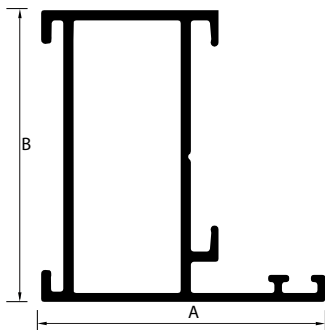
DOMAL CLIP 23MM

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 9033 | 33 | 26 | 1.2 | 16Ft | 1.20-1.40 |



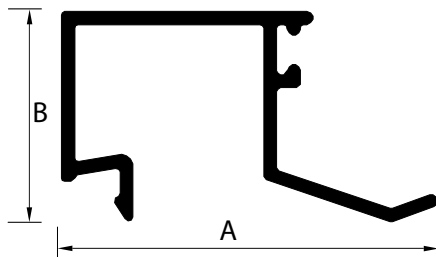
OUTER DOMAL

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 9101 | 39 | 40 | 1.4 | 16Ft | 2.70-3.20 |



MULLION DOMAL

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 9111 | 55 | 40 | 1.3 | 16Ft | 3.20-3.60 |



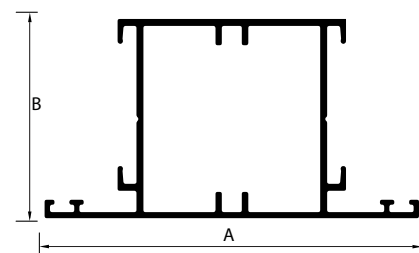
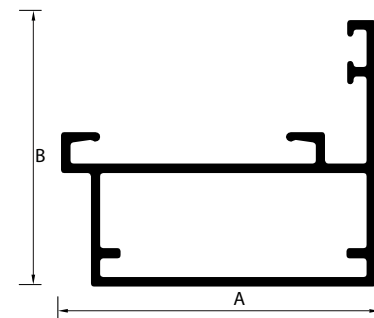
CLIP DOMAL

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 9131 | 32 | 18 | 1.2 | 16Ft | 1.10-1.30 |



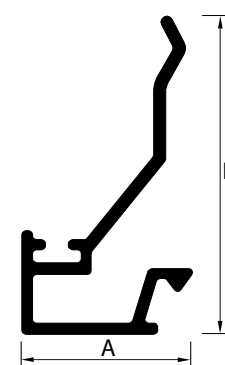
INVERSION CLIP

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 9103 | 40 | 34 | 1.2 | 16Ft | 2.40-2.70 |



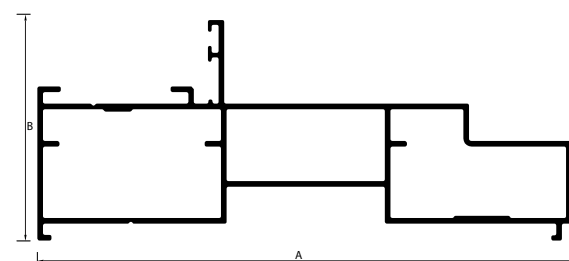
MULLION DOMAL 75MM

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 9113 | 75 | 40 | 1.2 | 16Ft | 4.20-4.60 |



DGU CLIP

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|----|----|-----|------|-----------|
| 9133 | 32 | 18 | 1.2 | 16Ft | 1.05-1.25 |



R40 3IN1 WINDOW FRAME DOMAL

| Sec. No. | A | B | T | Cut | Wt. Range |
|----------|-----|----|-----|------|-----------|
| 9141 | 114 | 33 | 1.2 | 16Ft | 6.10-6.70 |

