THE WORLD AS IT SHOULD BE SEEN

UPVC WINDOWS AND DOORS

VENTANA

UPVC Windows and Doors by Ventana has transformed the traditional Indian window combining form and function that provides a complete solution for Indian homes. Ventana Windows and Doors are made from a special blend of UPVC and have many benefits over Aluminium, Steel and Wood windows and doors. These windows are more energy efficient, more durable, more secure and very easy to maintain when compared to traditional windows and doors in wood or aluminium.

VENTANA

PARAMAHAMSA INFRASTRUCTURE

The following nine points illustrate the benefits of using Ventana UPVC Windows and Doors for your next housing or commercial building project:

1. **Durability:** As in 90% of the UPVC applications, Ventana doors windows cladding have a projected lifespan of 40 years. Studies have shown that they survive well against corrosion, adverse weather conditions and also damage from impact

2. **Value:** Ventana is value for money. When you invest in a UPVC window you are gaining on two fronts – by outlasting most other traditional materials, it has longer life than other windows. Besides, being energy efficient, they save on your fuel bills.

3. **Good for the environment:** Advanced production technology means that UPVC saves a lot of energy in production resulting in less greenhouse gases.

4. **Part-produced from renewable resources:** About half of the 'feedstock' required to produce UPVC comes from salt. As salt is abundant and is a renewable resource, UPVC doors and windows are being produced from 'feedstock' that can be renewed as against other commonly used building materials.

5. **Low maintenance:** UPVC or vinyl windows requires little or no maintenance throughout their life span. This is a benefit to the homeowner and to the environment. Over the lifetime of a timber window for example, a homeowner would have to paint the window possibly a dozen times leading to a large accumulation of emissions and wastage of time energy and resources.

6. **Recyclable:** There have been various initiatives introduced to benefit UPVC manufactures and the building industry by the Government. These, coupled with dedicated research in Polymer Sciences have led to dramatic advancements in UPVC recycling.

7. **Tested fire performance:** UPVC does not catch fire due to the fact that it has a chlorine base and is an inherently flame retardant material. For example the ignition temperature of UPVC is circa 390 degrees Celsius as against an ignition temperature of circa 250 degrees Celsius for timber.

8. **High Standards of manufacture:** Manufacturing UPVC is a process that, like most processes of production, is strictly monitored to ensure that consumer health and welfare is protected.

9. **Versatility:** UPVC is a highly versatile product that can be used to produce a UPVC window of almost any style. UPVC sash windows, casement windows or bay windows all these and many more window types are easily manufactured and marketed at a competitive price.

People often consider wooden doors and windows to be better than other types of doors and windows. This is not accurate. A wooden door actually fares poorly in almost every important criterion that a home owner would consider. Please see the comparative table below to find out how a UPVC door or window scores over a wooden door or window.

WOODEN WINDOWS	UPVC
Maintenance	
Wooden windows need regular painting/ polishing.	UPVC windows and doors require no painting; only routine cleaning.
Security	
Wooden windows are easy to break open with a simple crow bar.	UPVC window handles are durable and are of excellent quality and the windows frames are extremely hard to cut. UPVC windows have a very secure multi- point locking system, which gives a building more security than traditional types of window clasps. It is also very difficult to break through a UPVC frame. Having double glazing and good quality multi- point locks in your windows also helps enhance security.
Monsoon Resistance	
Wooden windows tend to rot or expand during monsoons. Poor insulation allows water to flow inside.	UPVC windows and doors have a built in special rain drain mechanism. For heavy rains; special rain track can be accommodated.
Resistance to Wind	
Wooden windows and doors tend to rattle in the face of strong winds leading to whistling sounds.	UPVC windows and doors are multi- chambered and reinforced with steel. For heavy wind loads; they can be further reinforced with a hurricane bar.
Termite resistance	
Wooden windows and wooden doors are prone to termites.	UPVC windows and doors are not prone to termites.
Aesthetics	
Wooden windows and doors look good.	UPVC windows and doors have elegant looks; They enhance both the exterior and interior of the building. They are now available in many different colours, and in addition can be finished in wood look-alike styles with a wood-grain feel. They can also be manufactured with a different colour on the outside and the inside.

Wooden Windows v/s UPVC

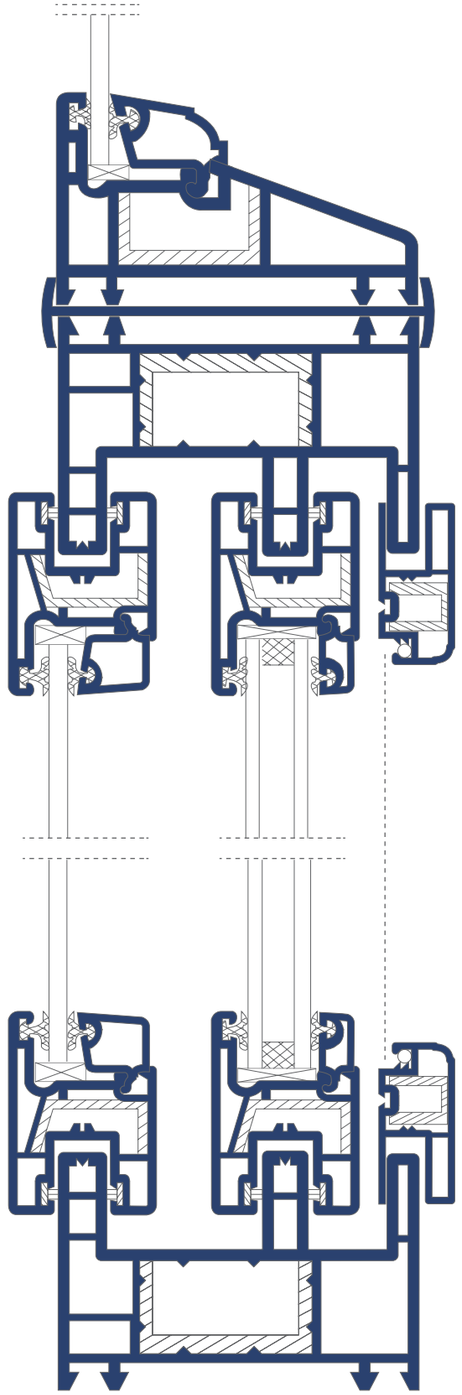
VENTANA
PARAMAHAMSA INFRASTRUCTURE

WOODEN WINDOWS	UPVC
Environmental Impact	
Wooden windows and doors use Tropical Hardwoods and are ecologically unsound.	UPVC windows and doors use less energy at the time of production; hence more environment friendly.
Energy Conservation	
Wood is a poor conductor of heat; hence wooden windows and wooden doors conserve more energy than aluminium windows and aluminium doors.	UPVC windows and doors are poor conductors of heat. They have excellent sealing with multiple point locks and fusion welded joints; hence conserve energy.
Sound Insulation	
Wooden windows and wooden doors are poorly engineered and poorly sealed; hence provide poor sound insulation.	UPVC Windows and doors are fusion welded, lock at multiple points and double sealed leading to excellent sound insulation.
Sunlight	
Wooden windows and wooden doors have poor structural strength; hence require more numbers/ components limiting the amount of sunlight.	UPVC windows and doors are steel reinforced; hence structurally strong. They allow large sizes leading to more sunlight.
Addition to value of home	
Wooden windows and wooden doors tend to deteriorate with time; hence do not add to long term value of home.	UPVC windows and doors have a long life and do not require any maintenance. Hence they add to the long term value of the home.
Ventilation	
Wooden windows and wooden doors tend to have more frames; hence leaving lesser area for ventilation.	UPVC windows and doors are long and are structurally strong and require less frames allowing more ventilation.
Ease of use	
Wooden windows and wooden doors have poor quality hardware which do not last long; leading to difficult usage experience.	UPVC windows and doors use international quality hardware that allows easy use of windows.
Dust & Pollen Protection	
Wooden windows cannot be tightly sealed to prevent dust and pollen entering the home/office.	The excellent seals and insulation present in UPVC windows means that dust particles and pollen are kept to a minimum in a building.
Durability under Extreme Weather	
Wooden windows and wooden doors start fading very soon; require constant re polishing.	UPVC windows and doors have UV resistant blend; do not fade even under sustained exposure to sun.

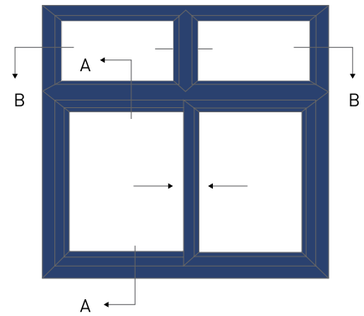
UPVC WINDOW AND DOOR SECTIONS

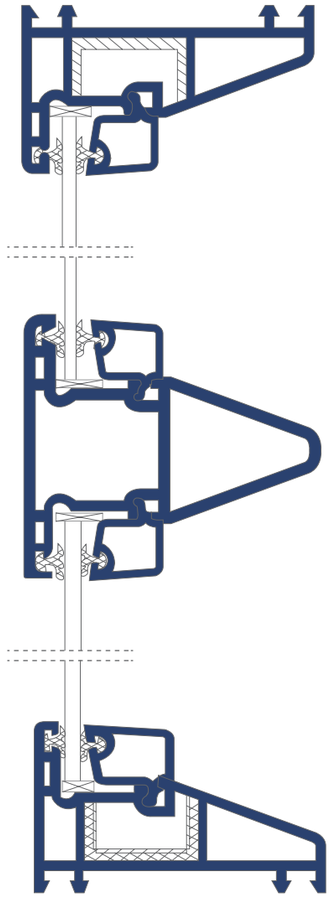
Structure Drawing for 80 Sliding Window
of Two Piece Style

VENTANA
PARAMAHAMSA INFRASTRUCTURE



A - A

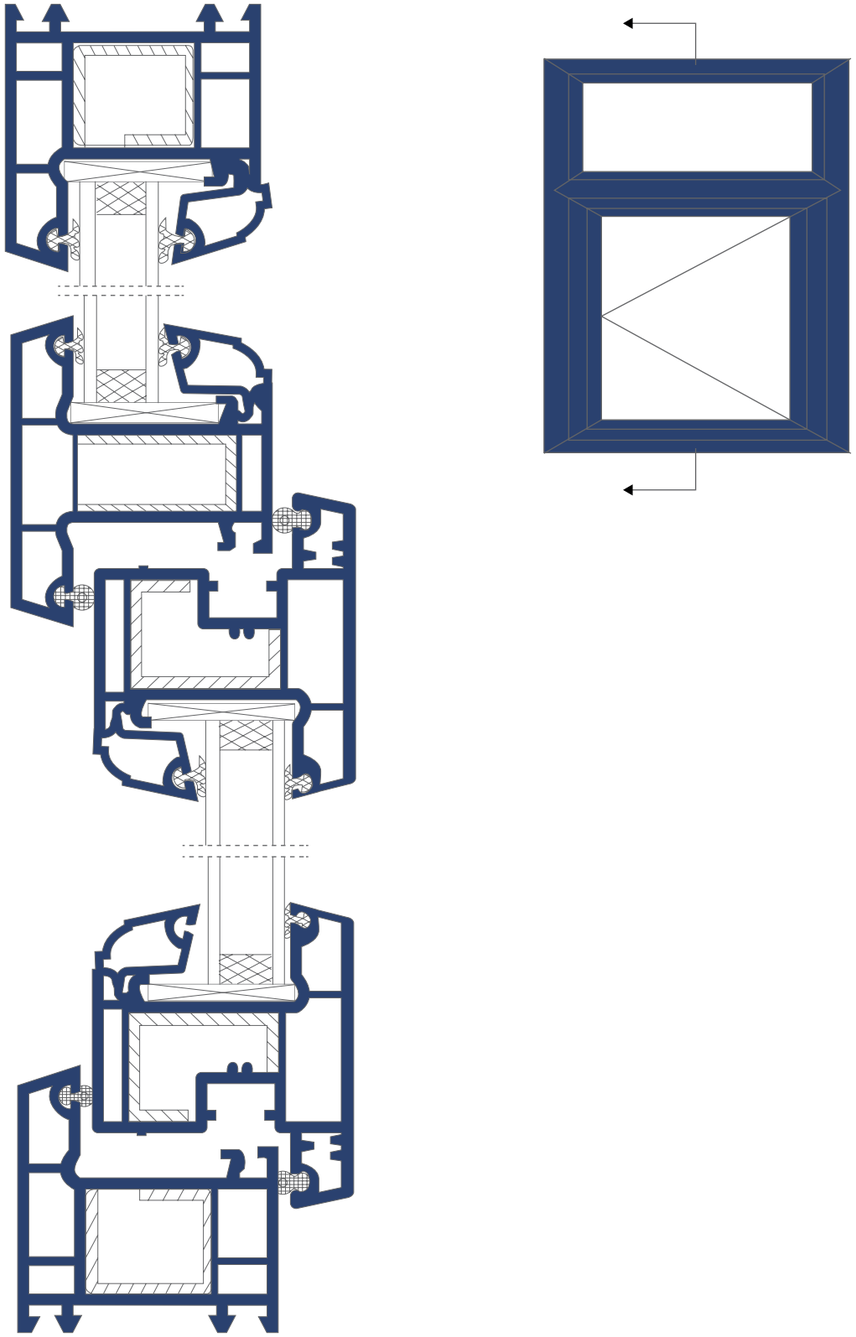




B - B

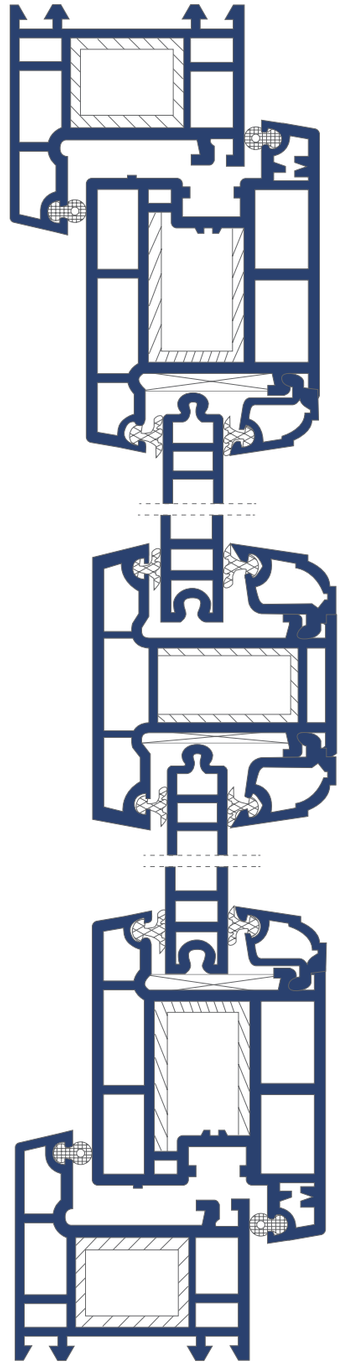
(Transmission Groove)
Casement Window Structure Section

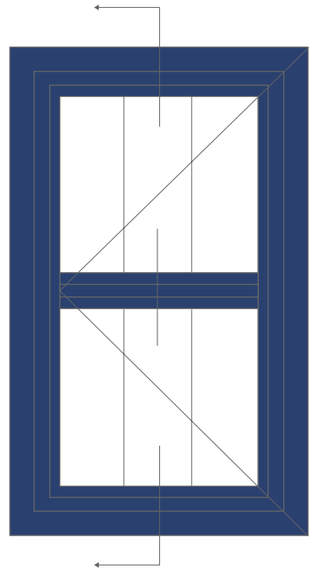
VENTANA
PARAMAHAMSA INFRASTRUCTURE



(Transmission Groove)
Casement Window Structure Section

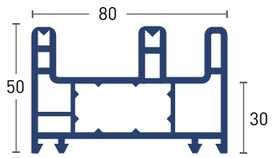
VENTANA
PARAMAHAMSA INFRASTRUCTURE



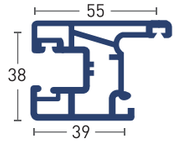


(Three - Track) Sliding Section

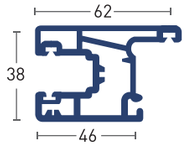
VENTANA
PARAMAHAMSA INFRASTRUCTURE



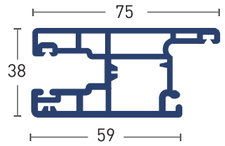
80 Sliding Frame T80-01



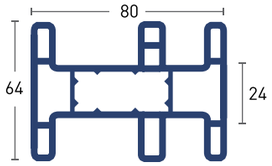
55 inner sash T80/60-01



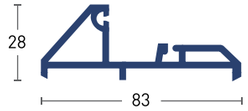
62 inner sash A T80/60-01A



75 inner sash T80/60-02



80 transom T80-02

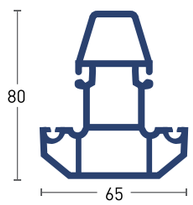


80 fix main frame T80-03

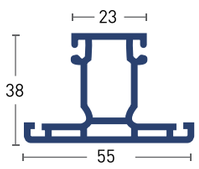
80 fix main frame T80-04

80 fix main frame A T80-04A

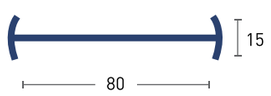
80 mullion T80-05



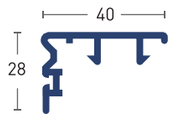
80 mullion - A T80-05A



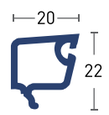
80 door mullion T80/60-03



80 joining panel T80-06



80 edge sealing T80-14

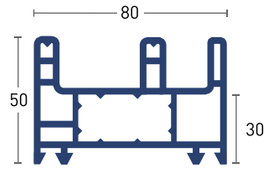


80 single glazing bead T80/73/60-01

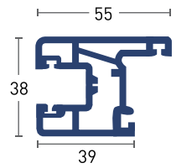
80 double glazing bead T80/73/60-02

(Three - Track) Sliding (Energy Saving)

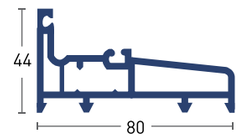
VENTANA
PARAMAHAMSA INFRASTRUCTURE



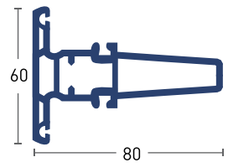
80 Sliding Frame B T80-01B



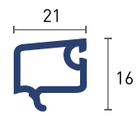
55 inner sash B T80/60-01B



80 fix main frame B T80-04B

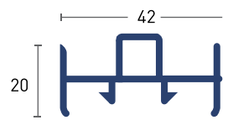


80 muntin B T80-05B

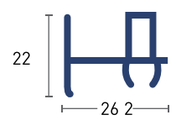


80 single glazing bead T80/73/60-01B

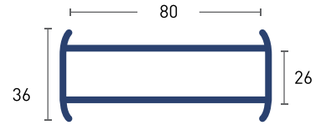
(Three - Track) Accessories Section



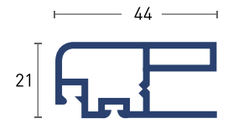
80 scaleboard T80/60-04



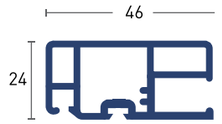
window sash A scaleboard T80/73-05



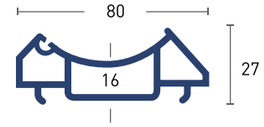
80 joining panel T80-07



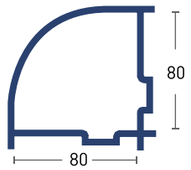
80 window sash T80/73-03



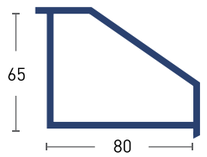
80 window sash T80/73/-03A



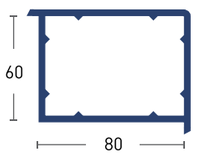
80 versatile joining panel T80-08



80/90˚corner T80-09



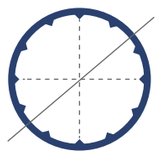
80/90˚chamfer T80-10



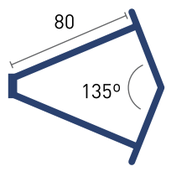
80 square tube T80-15

(Three - Track) Accessories Section

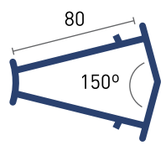
VENTANA
PARAMAHAMSA INFRASTRUCTURE



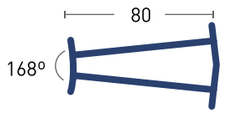
80 versatile joining tube T80/73-04



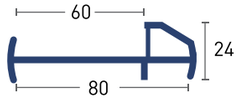
80/135˚ corner T80-11



80/150˚corner T80-12

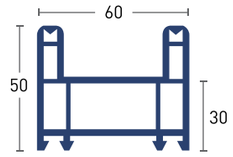


80/168˚ T80-13

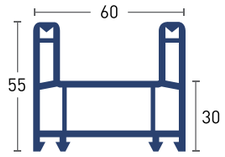


80/60˚ joining panel TP80/60-01

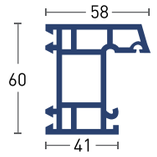
(Two Track) Sliding Section 60 Series



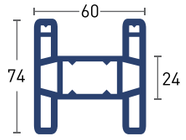
60 sliding frame T60-01



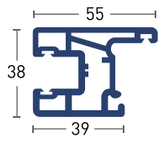
60 sliding frame A T60-01A



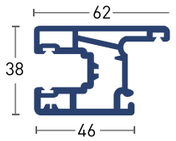
60 fix main frame TP60-01



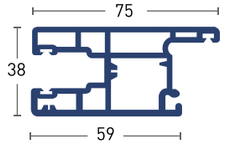
60 transom T60-02



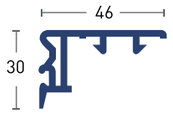
55 inner sash T80/60-01



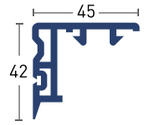
62 inner sash A T80/60-01A



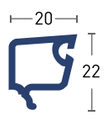
75 inner sash T80/60-02



60 sealing edge T60-03

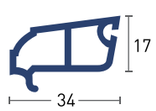


75 sealing edge T60-03A



60 single glazing bead T80/73/60-01

60 double glazing bead T80/73/60-02

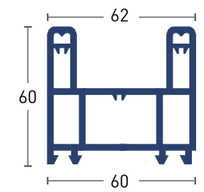


60 single glazing bead TP60-05

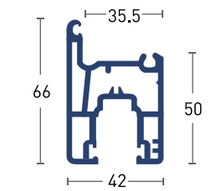
60 double glazing bead TP60-06

Sliding Section

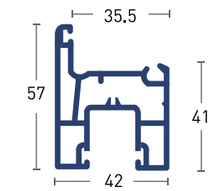
VENTANA
PARAMAHAMSA INFRASTRUCTURE



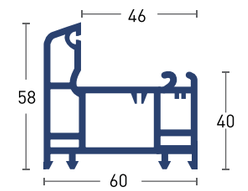
62 Sliding Frame IPM-01



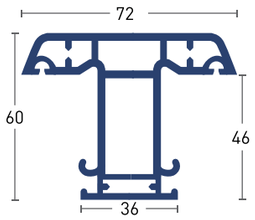
66 sash A IPM-03



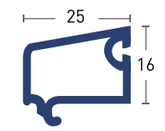
57 sash A IPM -02



60 fix main frame A IPM-11



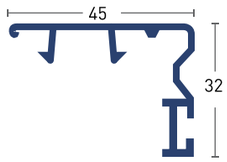
60 muntin IPM-12



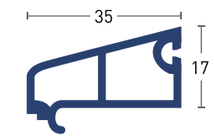
57 single glazing bead IPM-04

60 double glazing bead IPM-07

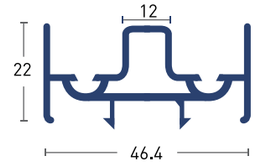
60 double glazing bead IPM-06



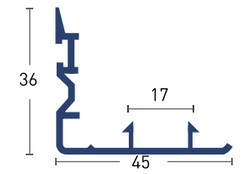
57 sealing edge IPM-08



60 single glazing bead IPM05

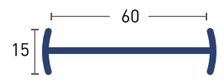


57 scaleboard IPM-10

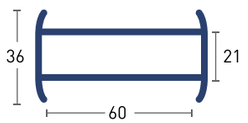


66 sealing edge -09

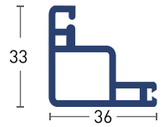
Accessories Section



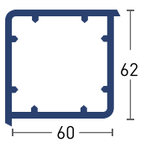
60 joining panel TP60-02



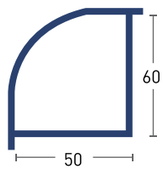
60 joining panel TP60-03



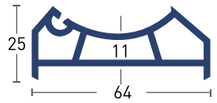
60 screen P60-05



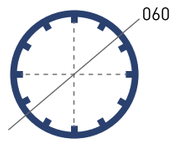
60 square tube A TP60-12



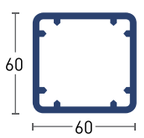
60/90˚corner TP60-04



60 versatile joining panel TP60-07

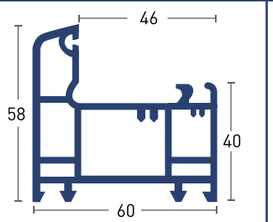


60 versatile joining tube TP60-08

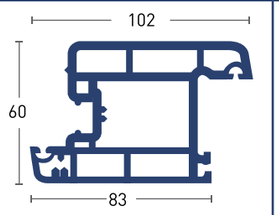


60 square tube TP60-11

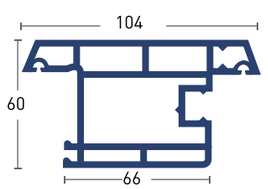
Casement Section



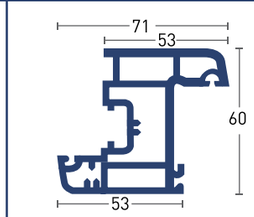
60 fix main frame IPM-11



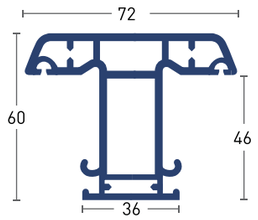
60 door frame for europe style P60-03



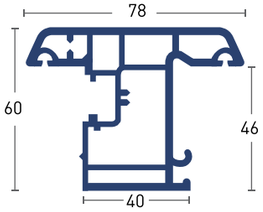
60 outer sash P60-03A



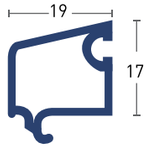
60 iner screen P6-07



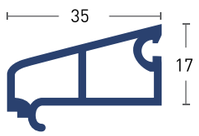
IPM-12



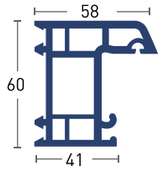
60 outer screen IPm-13



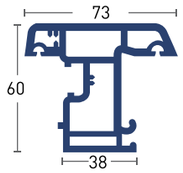
60 double glazing bead IPM-13



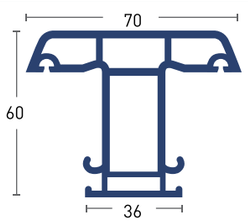
60 single glazing bead IPM-05



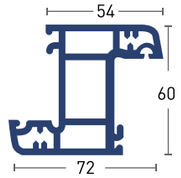
60 casement frame TP60-01



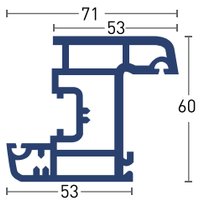
60 window screen P60-01



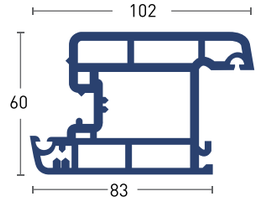
60 mullion P60-02



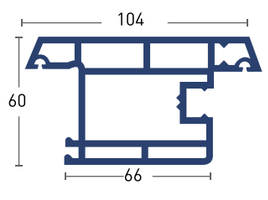
60Z mullion P60-04



60 window screen P60-07

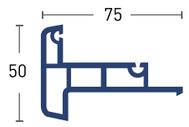


60 door sash for europe style P60-03

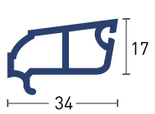


60 door screen P60-03A

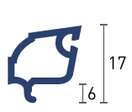
door panel P60-04



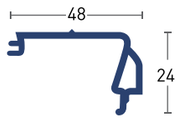
60 mullion P60-06



60 single glazing bead TP60-05



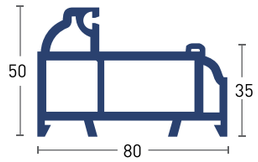
60 double glazing bead TP60-06



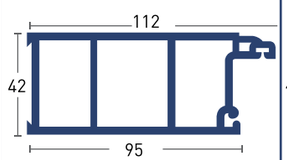
wrapping edge for shutter TP60-09

shutter strip TP60-10

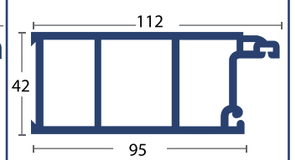
Luxury Casement Door Section



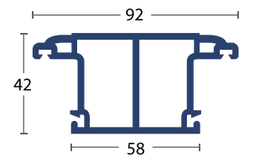
42 door frame PM42-01



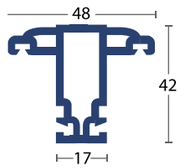
42 door frame PM42-02



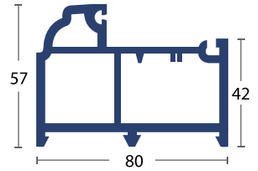
42 door frame PM42-02A



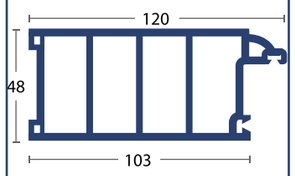
42 pillar PM42-03



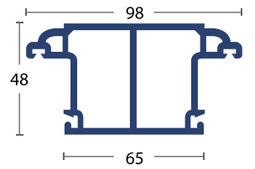
42 small pillar PM42-04



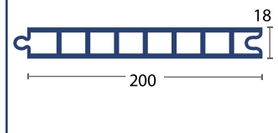
48 door frame PM48-01



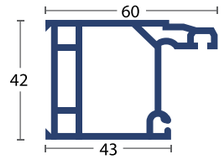
42 door frame PM48-02



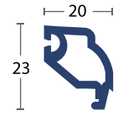
48 pillar PM48-03



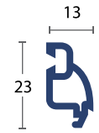
luxury frame PM42/48-04



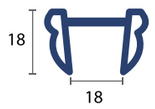
frame PM42-18



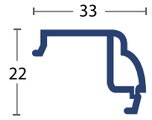
single glazing bead PM42/48-05



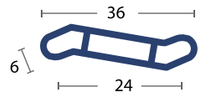
door bead PM42/48-06



wrapping strip PM42/48-07

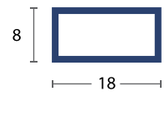


wrapping strip PM42/48-08

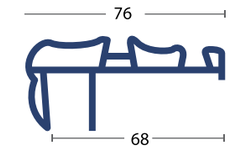


persian strip PM42/48-09

joining strip PM48-04

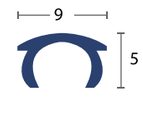


grid strip PM42/48-10

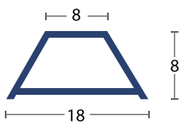


door bushing PM42/48-11

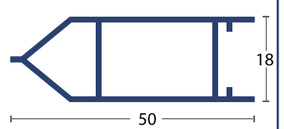
wrapping strip PM42/48-12



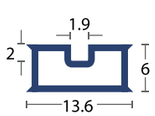
fastening strip PM42/48-13



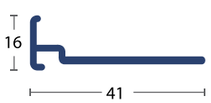
grid strip PM42/48-14



shutter strip PM42/48-15

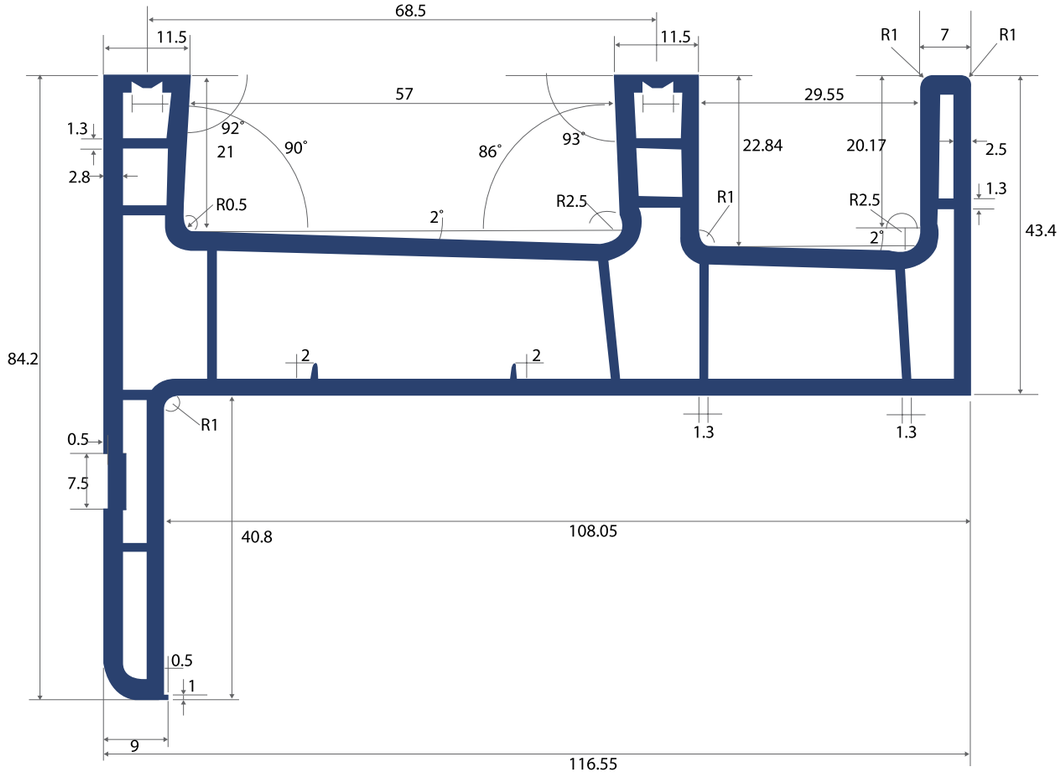


shutter insert PM42/48-16

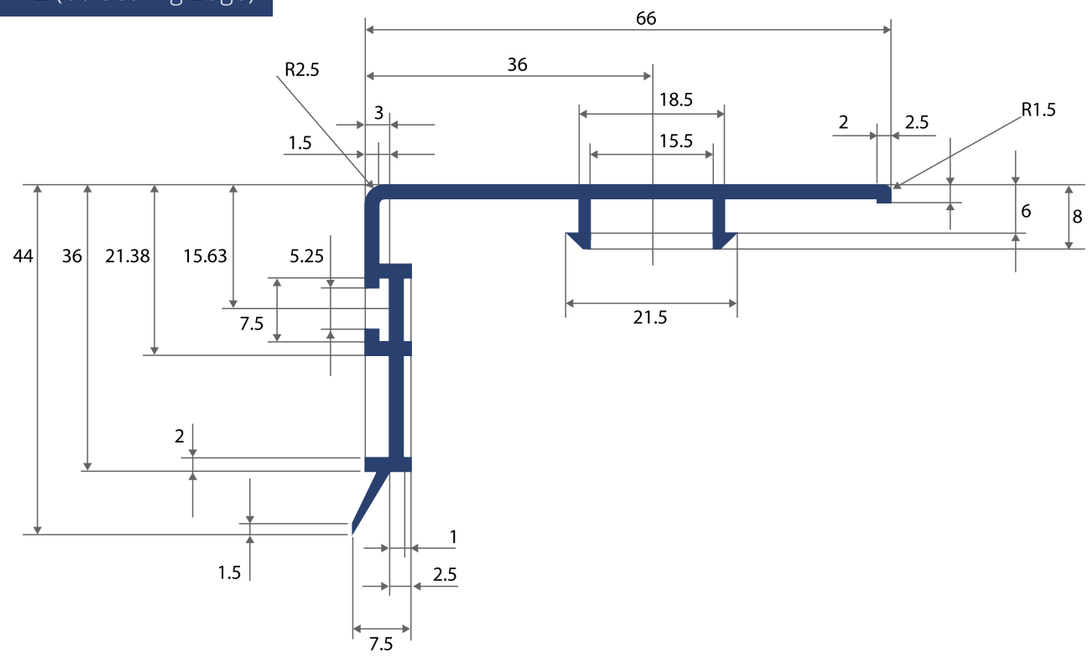


joining strip PM 42-17

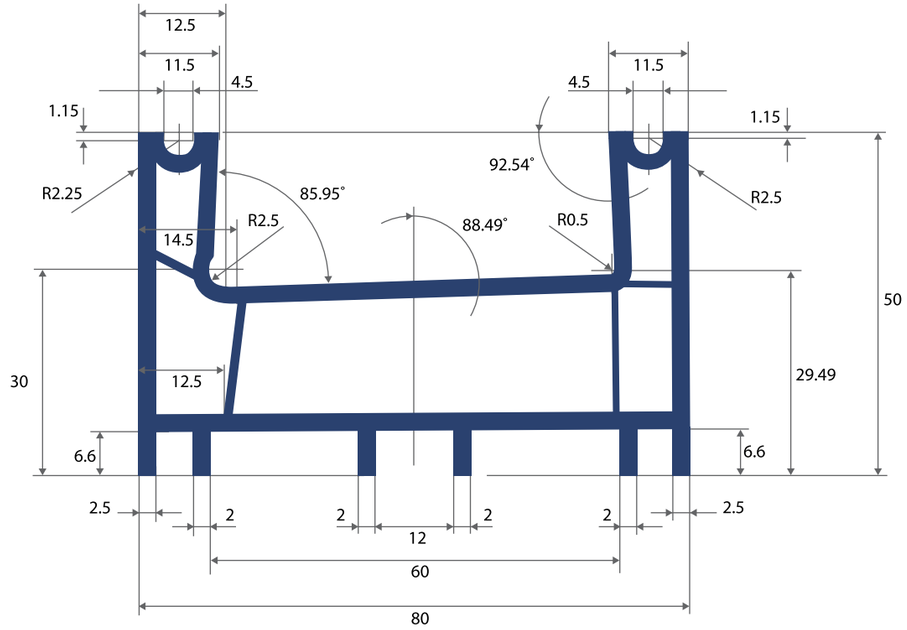
116 (3 Track Sliding)



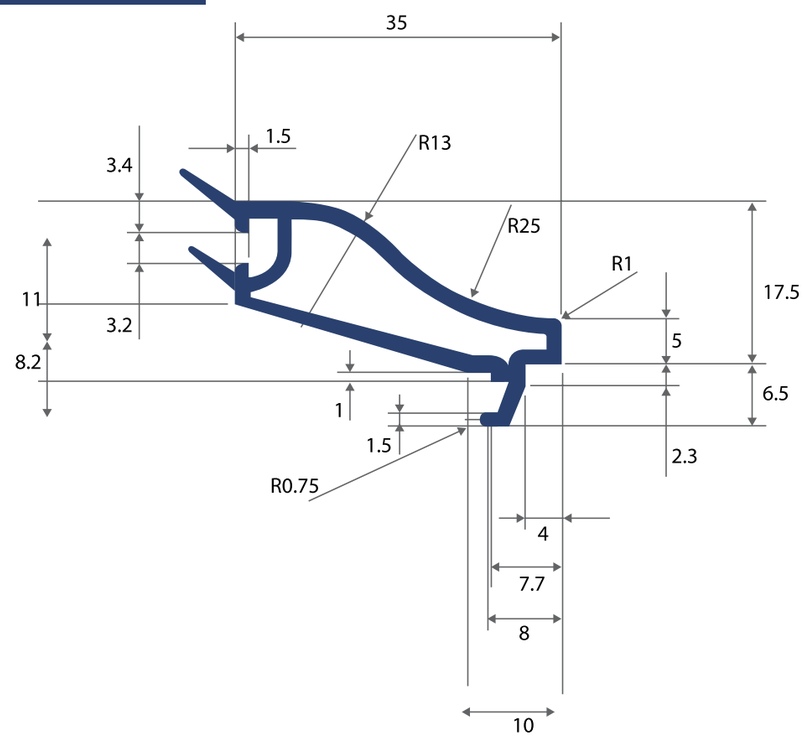
AT–12 (66 Sealing Edge)



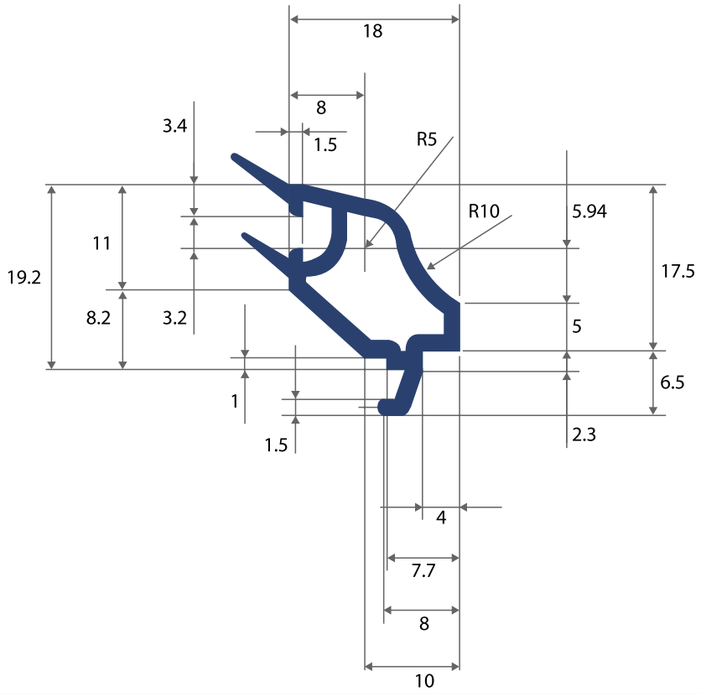
AT–07 (80 2 Track Sliding Frame)



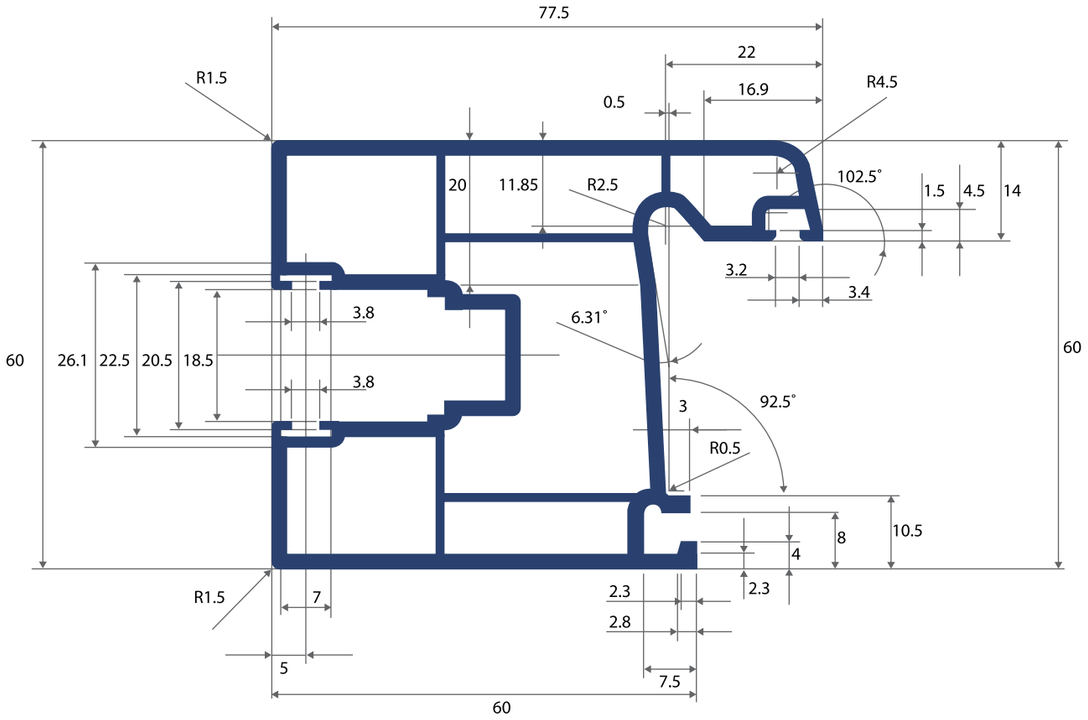
AT–13 (Glass Beading-1)



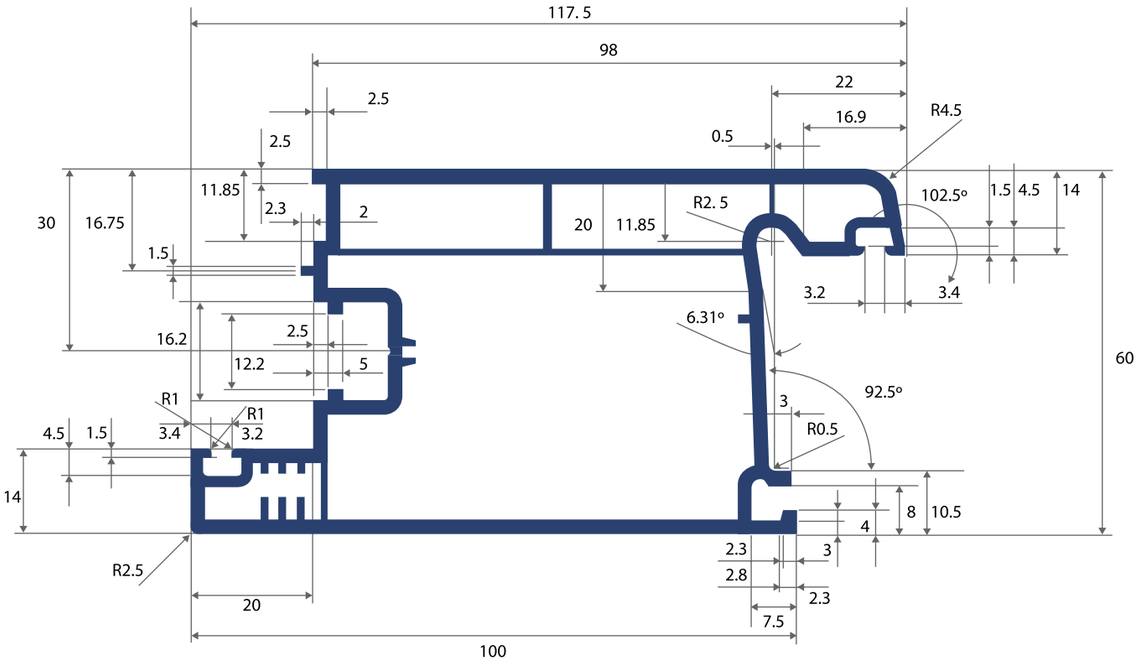
AT–14 (Glass Beading-2)



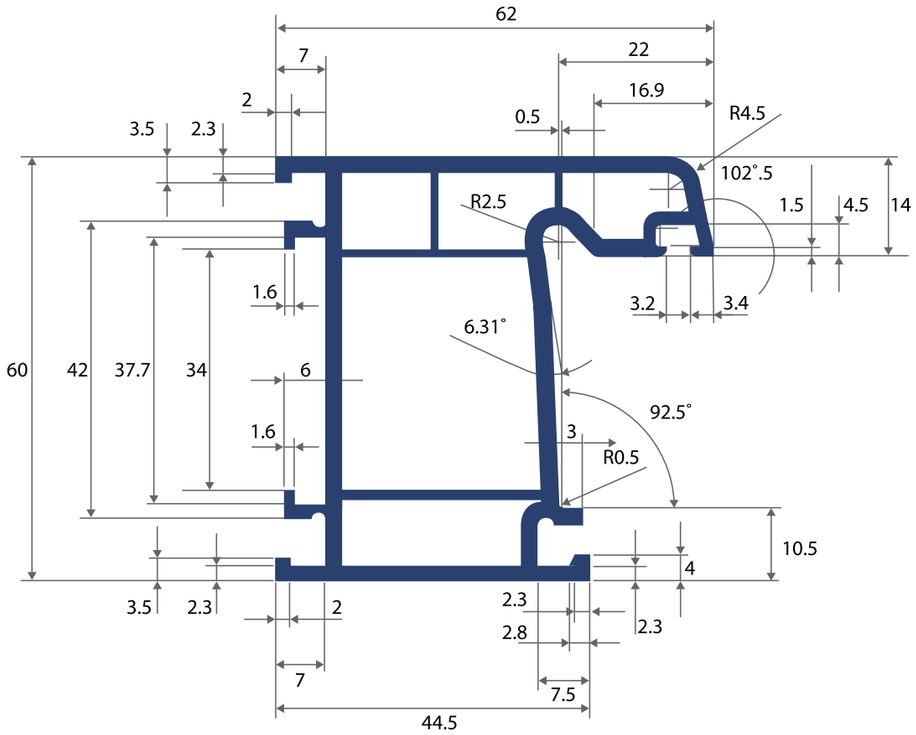
AT–08 (78 Inner Sash)



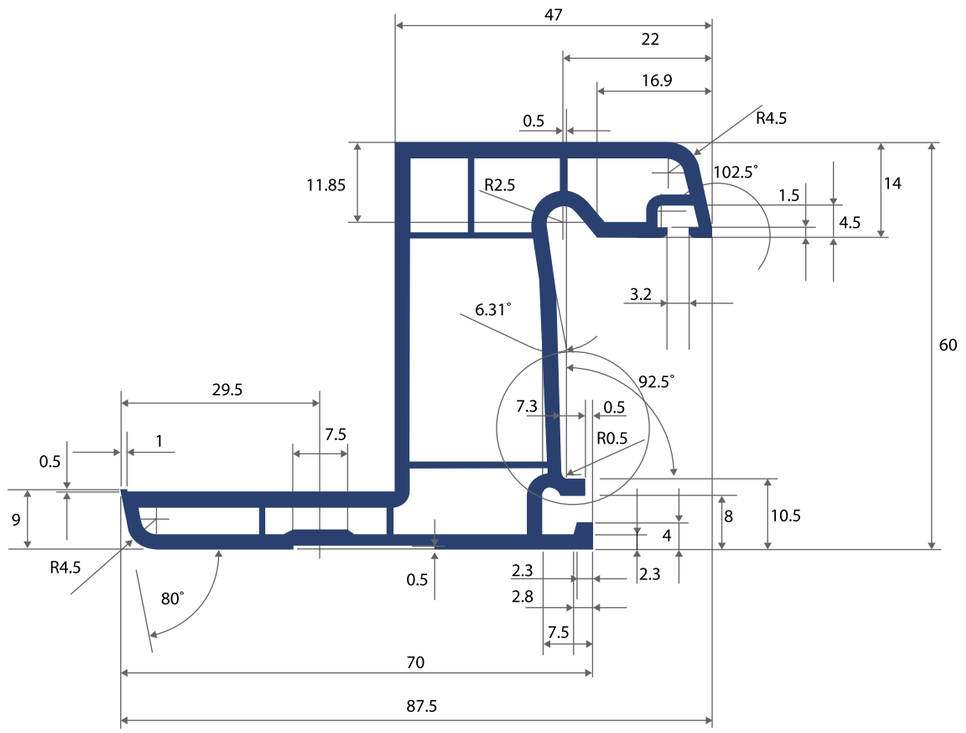
AT–01 (118 Door Sash)



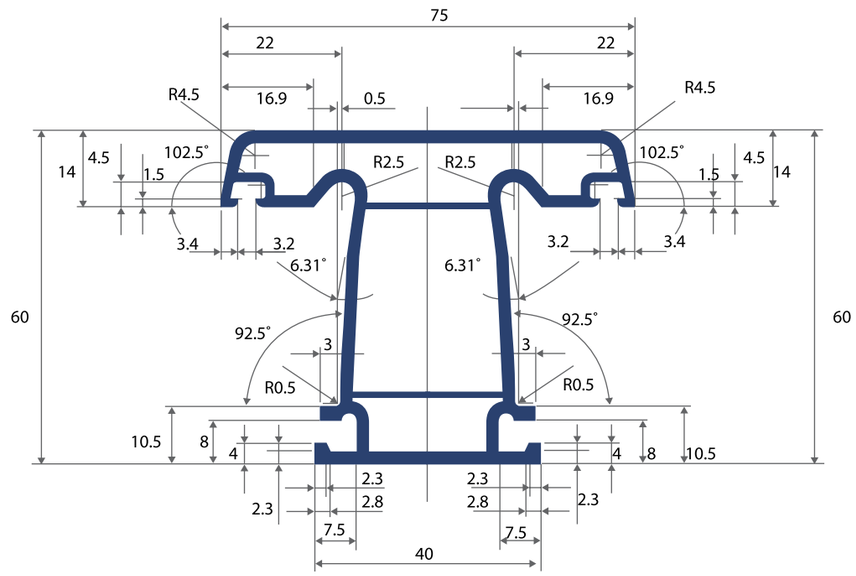
AT–02 (62 Fixed Main Frame)



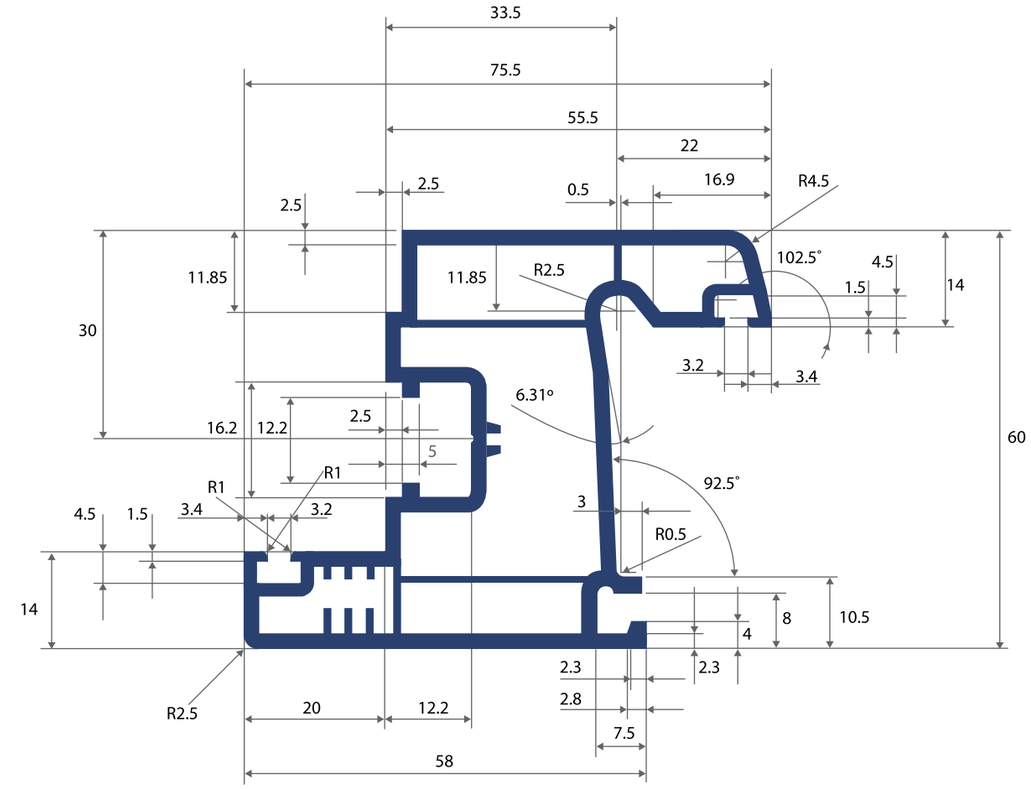
AT–06 (88 Casement Frame)



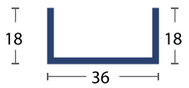
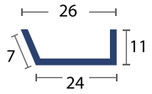
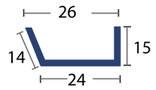
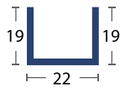
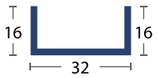
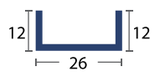
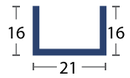
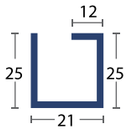
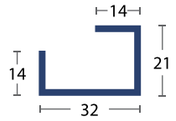
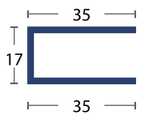
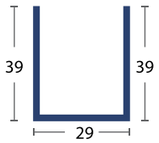
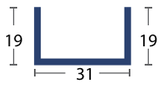
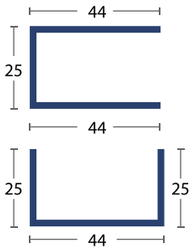
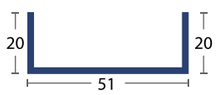
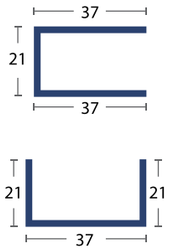
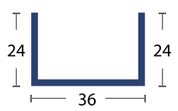
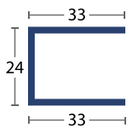
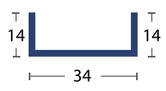
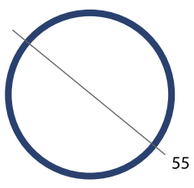
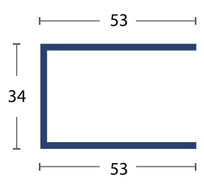
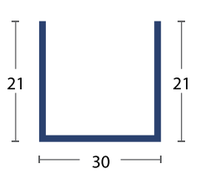
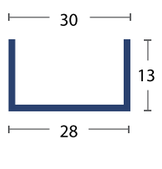
AT–03 (75 Mullion)



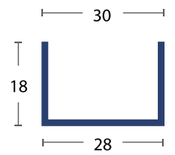
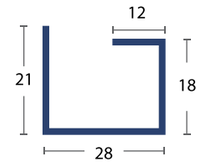
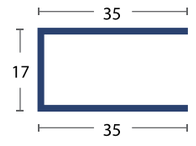
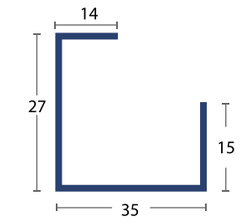
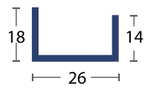
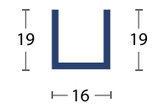
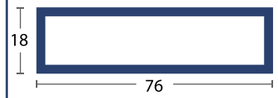
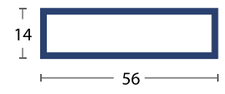
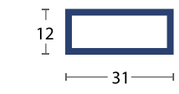
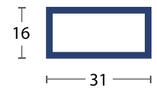
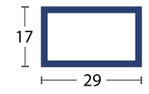
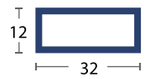
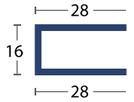
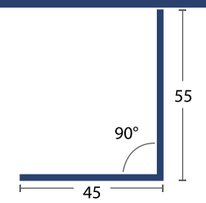
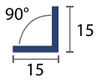
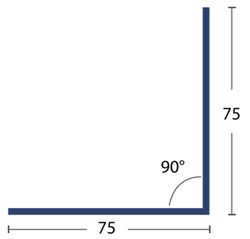
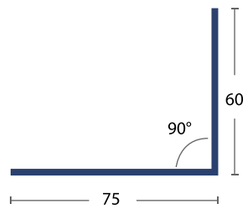
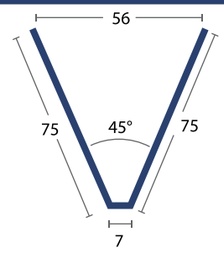
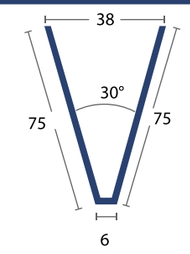
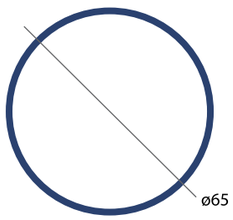
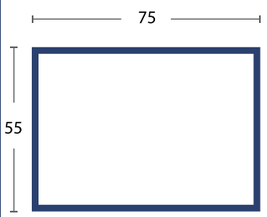
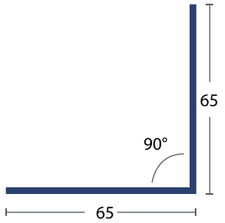
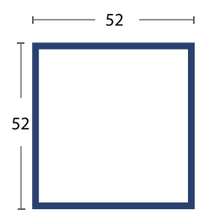
AT–05 (78 Window Screen)

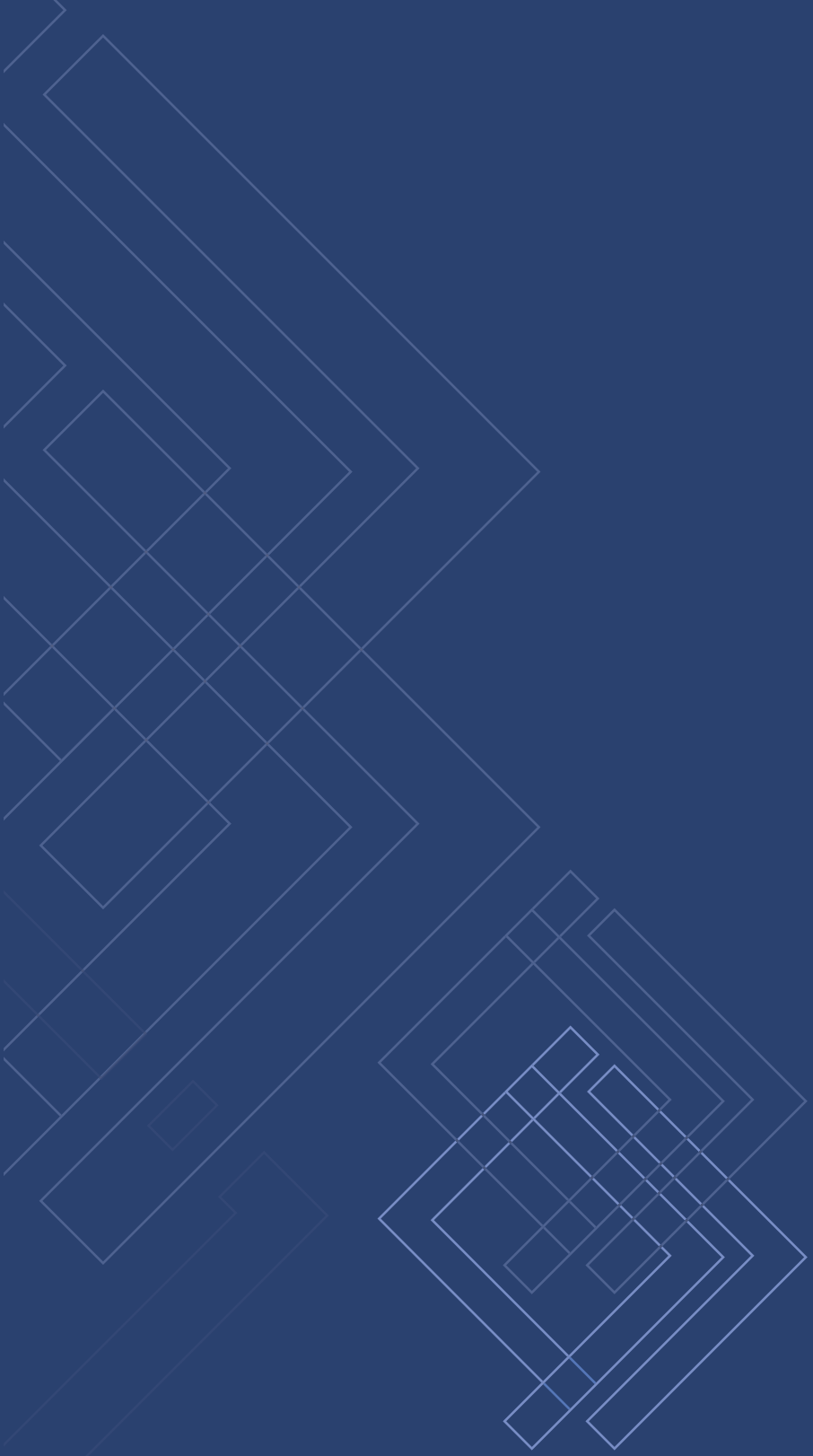


Reinforcement Steel Section

 80 sliding frame T80-01	 55 inner sash T80/60-01	 62 inner sash A T80/60-01A	 75 inner sash T80/60-02
 80 fix main frame T80-04	 80 main frame A T80-04A	 80 fix main frame B T80-04B	 60 casement frame TP60-01
 60 window screen P60-01	 60 muntin P60-02	 european sash P60-03	 60 sliding frame T60-01A
 48 door frame IPM-11	 48 door screen frame PM48-02	 42 door frame PM 42-01	 42 door screen PM42-02
 42 frame	 60 inner screen P60-07	 73 sliding frame T73-01	 73 inner sash T73-02
 60 versatile joining tube TP60-08	 60 outer sash P60-03A	 62 double YT-01	 57 sashA YT-02

Reinforcement Steel Section

 66 sash A YT-03	 60 fix main frame YT-11	 60 muntin A YT-12	 60 outer screen YF-13
 73 fix main frame T73-06	 80 screen A T80/73-03A	 80 window screen T80/73-03	 80 joining pand T80-07
 60 joining pand TP60-03	 73 joining pand T73-09	 60 transom T60-02	 80 transom T80-02
 73 transom T73-03	 Z muntin P60-02A	 60/90˚ corner TP60-04	 60 screen P60-05
 80/90˚ corner T80-09	 80/90˚ square corner T80-10	 80/135˚ corner T80-11	 80/150˚ corner T80-12
 versatile joining frame T80/60-02	 80/90˚ square tube T80/60-032	 73/90˚ corner T73/11	 square tube TP60-11./12



VENTANA

PARAMAHAMSA INFRASTRUCTURE

BENGALURU
1/29 (Old 5), 7th Cross, Guddadahalli, Kempapura Agrahara
Mysore Road, Bengaluru 560026, India
Tel: +91 80 26753918 / Mob: +91 9845353918
Email: info@paramahamsa.co.in
www.ventana.co.in