

Godrej Locking Solutions & Systems

Glass Hardware Products



About Godrej



At Godrej Locking Solutions and Systems, we keep a finger on the pulse of our customers. Inspired by their needs, we seek to blend innovation and technology, to offer solutions that perfectly match their needs. This has been our philosophy for the past 120 years, during which we've built a bond of trust, as well as a reputation for quality, technology and aesthetics, with our customers.

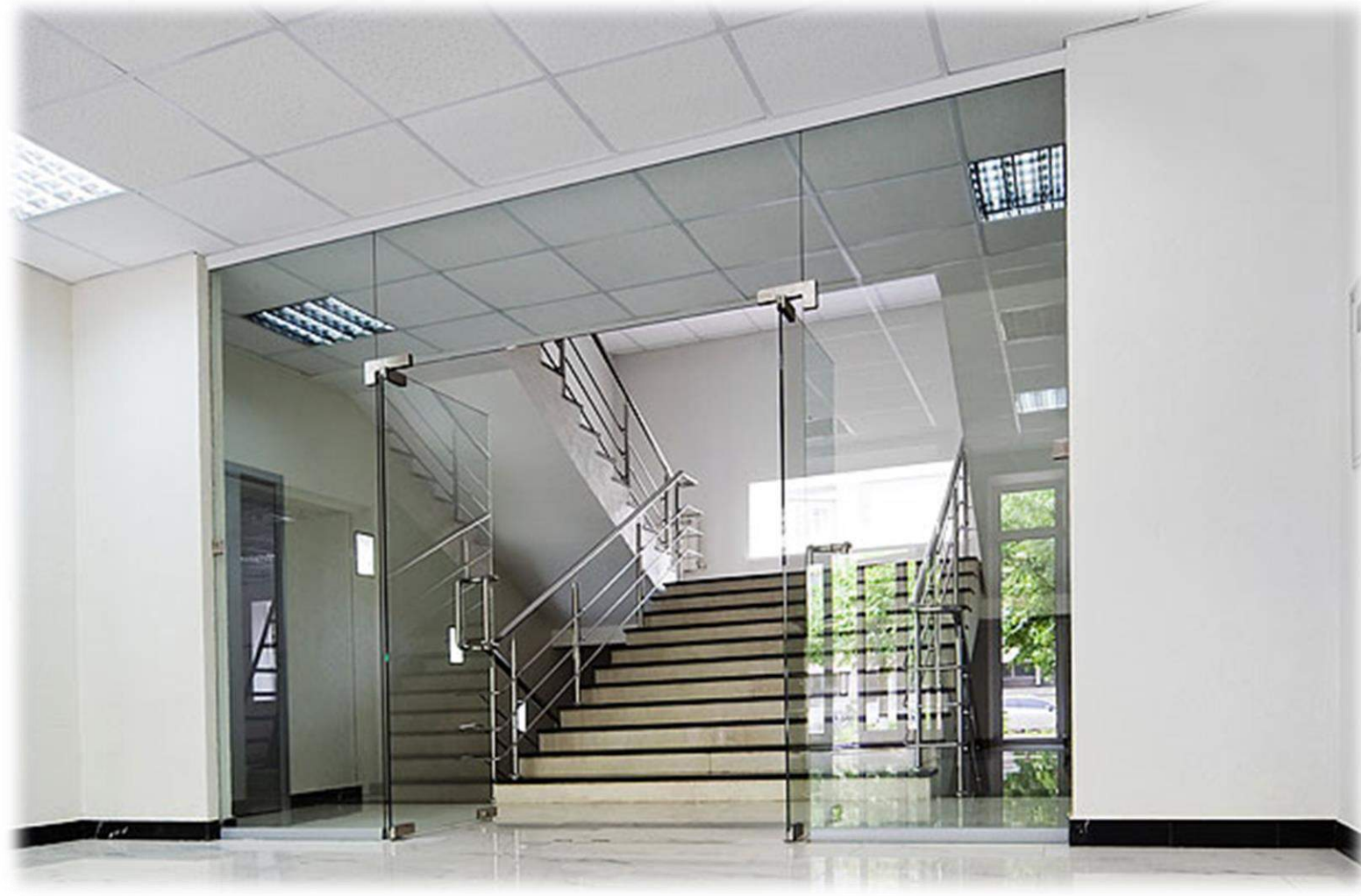
Our range has been designed to fit perfectly into today's hi-tech residential and commercial establishments. The creativity of our team comes to the fore, as our products cater to your needs for security, privacy, fire & smoke checks and energy saving with ease. Our devices meet international quality standards like UL Rating, EN Rating, CE Certification and fire-rated. Having complete range of Architectural Hardware.

Going forward, we will continue to innovate premium, comprehensive hardware solutions. For us, perfection will always lie in the details, and our solutions will remain extremely secure and robust, easy to install and operate, and flexible to meet the challenges of diverse applications.

Patch Fittings

There are 3 types of Glass Structures

Glass Structure – Interior (Main Doors) Patch Fittings



Glass Structure – Shower Cubicle



Glass Structure - Spider Fittings



Patch Fittings



Features:

- All key parts are made from drop forged high density Aluminium alloy
- SS 304 grade covers for aesthetics & corrosion resistance
- Suitable for glass door from 8 to 12mm thick and 120 Kg weight.

Patch fittings



Bottom Lock Patch



Top Patch



Bottom Patch



Over panel patch with pivot



Pivot plate



L - arm with pivot

Kurve patch fittings



Top patch



Bottom patch



Bottom lock patch



Connector patch GCP 640



L-connect patch with pivot



L-connect patch with stopper



L-connect patch



Square connect patch



Side connector patch

Kurve Patch fittings - Features

- Elegant and appealing curvilinear design
- SS 304 cover for high corrosion resistance
- spring loaded push pin for easy installation and for firm fitting
- Aluminum alloy casted body
- Gasket provided to accommodate glass from 8-12mm thickness and avoid glass damage.

Fin Patch Fittings



Square connect patch with fin



Top patch with pivot and fin (R)



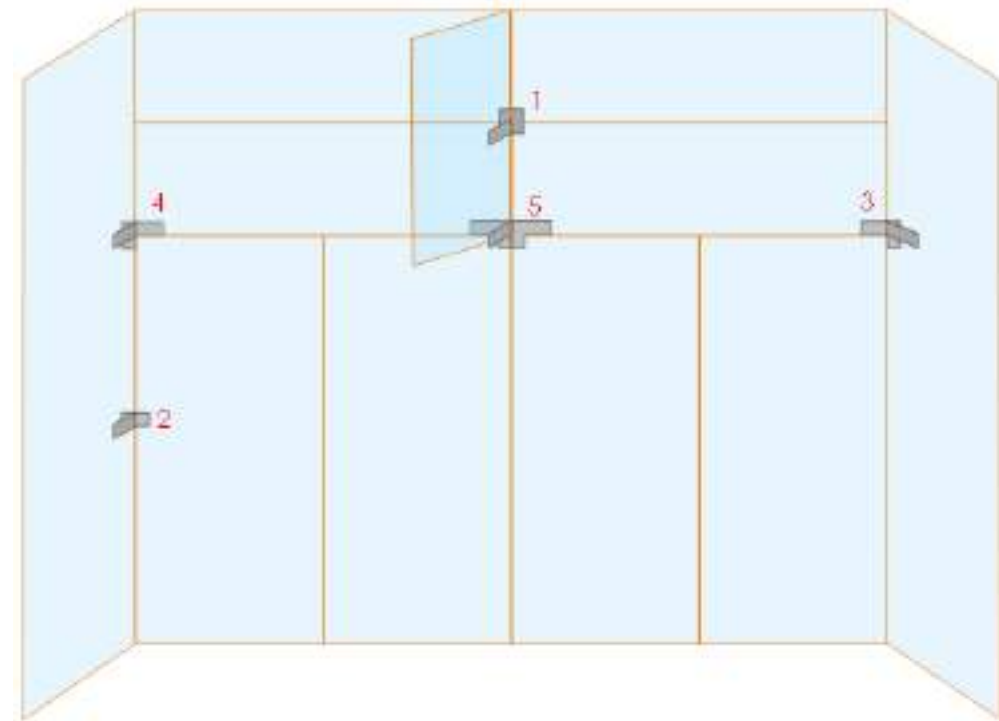
Rectangular connect patch with fin



Top patch with pivot and fin (L)



Over panel pivot with fin patch fitting for back to back doors.



Applications



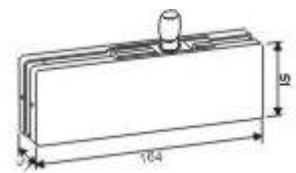
TOP PATCH



BOTTOM PATCH



FLOOR SPRING



TOP PATCH WITH PIVOT.



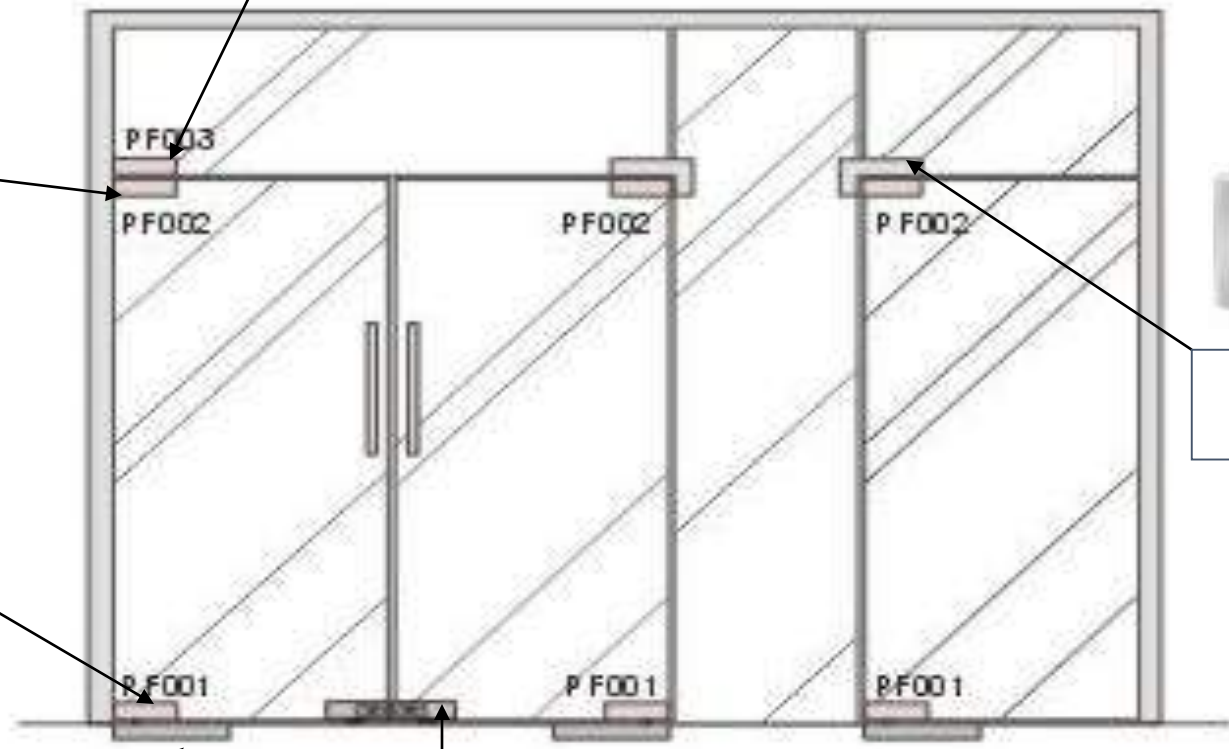
OVER PANEL PATCH WITH PIVOT



L-ARM WITH PIVOT

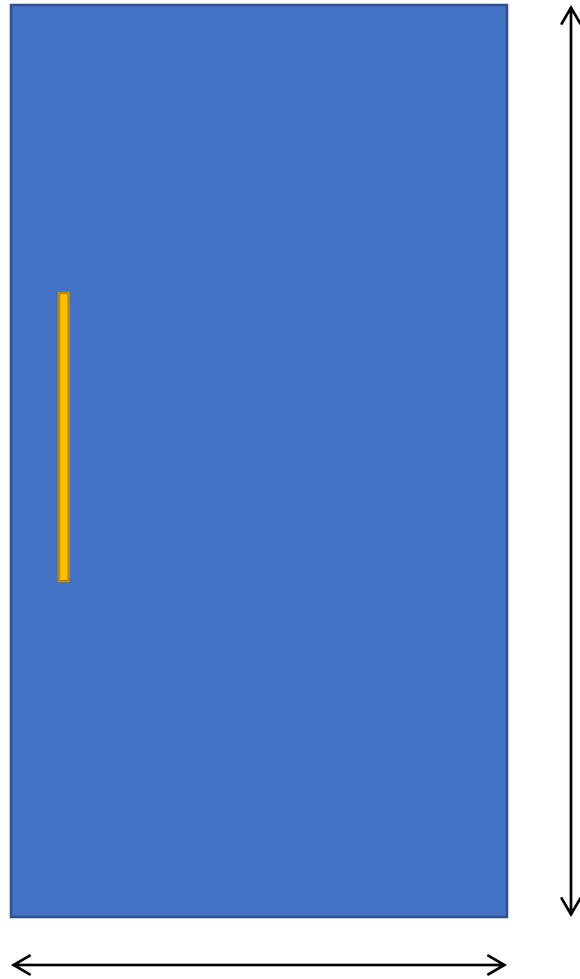


BOTTOM LOCK PATCH



Floor Spring

Weight of Glass



$$\text{Weight} = \frac{\text{H (feet)} \times \text{W (feet)} \times \text{Thickness (mm)}}{4.3}$$

Weight of Glass – For e.g.



W = 3 feet

H = 7 feet

$$\text{Weight} = \frac{H \text{ (feet)} \times W \text{ (feet)} \times \text{Thickness (mm)}}{4.3}$$

Ans : 58.60 kg
approx 60 kg

Features and Technical Information:

Floor Springs	Max Door width	Max Door weight	Power size	Closing moment	Life cycles Tested	Certification & USP
D80	900mm	80 Kg	3	20 Nm	1 Lakh	Durable and sturdy model in an affordable price
B710	900mm	80 kg	3	20 Nm	1 Lakh	Compact model (40 mm installation height) for thin slab applications
D100	1100mm	100 Kg	4	26 Nm	5 Lakh	Adjustable power size



B710



D80



D100

Features and Technical Information:

Floor Springs	Max Door width	Max Door weight	Power size	Closing moment	Life cycles Tested	Certification & USP
B803	1000mm	80 Kg	3	25 Nm	5 Lakh	CE Certified Fire rated Series
B804	1100mm	100 kg	4	33 Nm	5 Lakh	CE Certified Fire rated Series



B803 & B804

Features

Features	Benefits
High grade cast iron body & galvanized steel box	High load bearing capacity and corrosion resistance
Heat treated high allow steel components	Optimum efficiency & enhanced performance
Adjustable latching and closing speed	Versatile according to requirement
Compact size (40 mm installation height)	Hassle free installation and thin slab application
Thermostability	Smooth functioning during fluctuating climates
Non removable speed adjustment valve	Eliminates oil leakage
Quality certified	Assured quality & adherence to the world standards.

New Arrivals



We understand the pain of bending down and opening the lock

Glass Door Locks



Glass to Glass Lock



Glass to Wall Lock



Glass door lock- 01



Glass door lock- 02



Glass door lock- 04



Glass door lock- 05



Glass door lock- 06



Glass door lock- 03

Features:

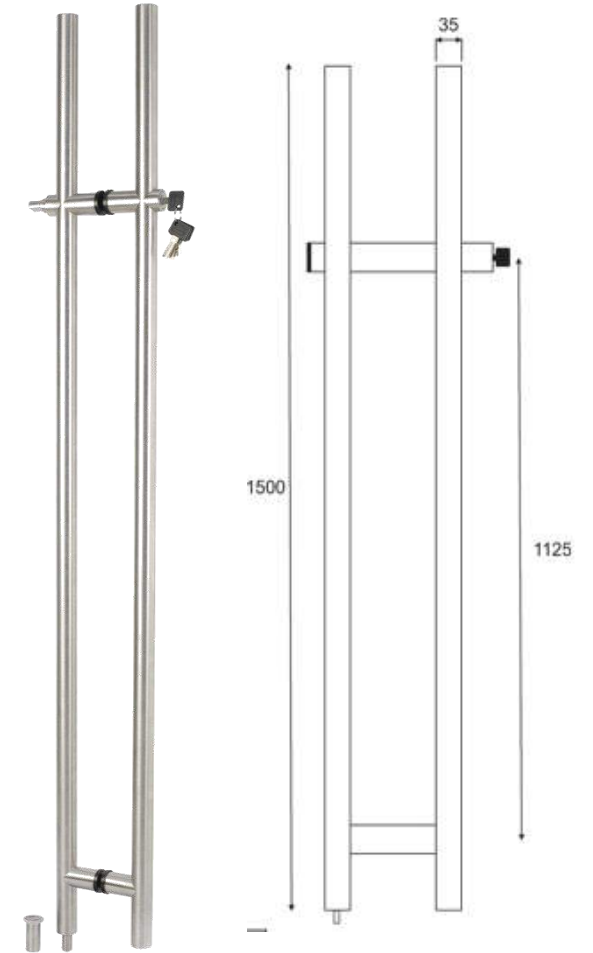
- SS 304 material for corrosion resistance
- Lock can be fitted even on toughened door, cut-out not required
- Dimple key

Pull Handle with Lock

Features:

- Made up of SS 304
- Used for main doors for showrooms, malls, Jewelry shops
- 1CK model for ease of operation
- Deadbolt length 34mm for extra security
- 5 Keys available with handle pair
- Dust proof spring loaded receptacle

Overall Length of handle	Centre to Centre of Hole	Handle Diameter	Hole Diameter
1500mm	1125mm	35mm	22mm



Shower Fittings

Shower Fittings



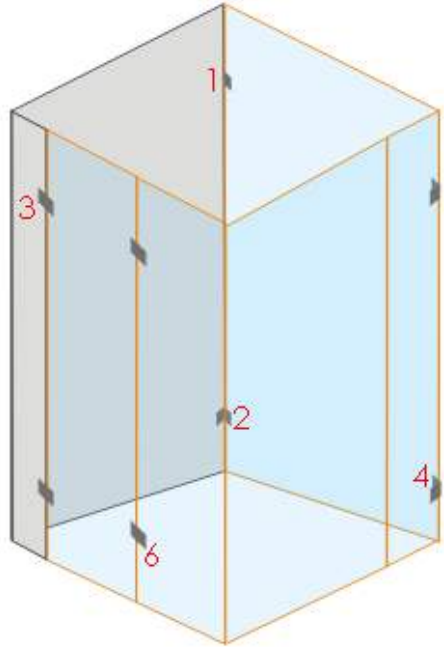
Shower Fittings



Features:

- Manufactured from SS304 which gives long lasting performance.
- Chrome plated finish to suit the décor of other sanitary items in shower area.
- Suitable for glass door from 8 to 12mm thick and 800mm wide.
- The door will be closed automatically when being closed to about 25 degrees.

Glass clips



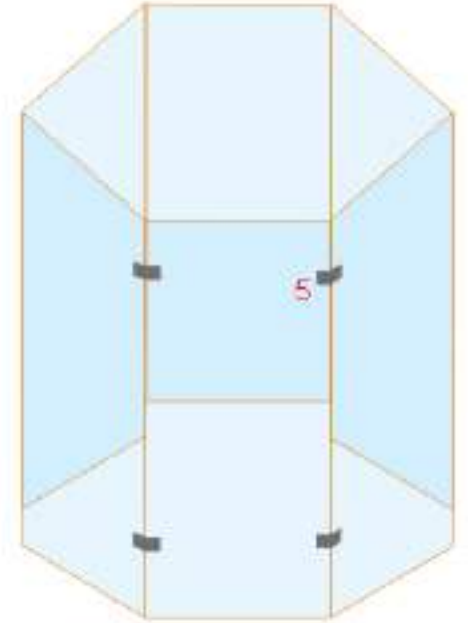
Wall to Glass clip



90° Wall to Glass clip



180° Wall to Glass clip



90° Glass to Glass clip

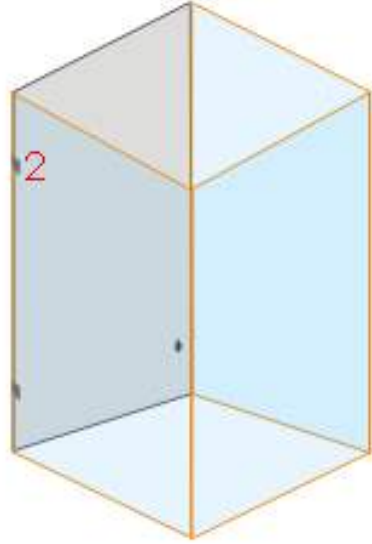
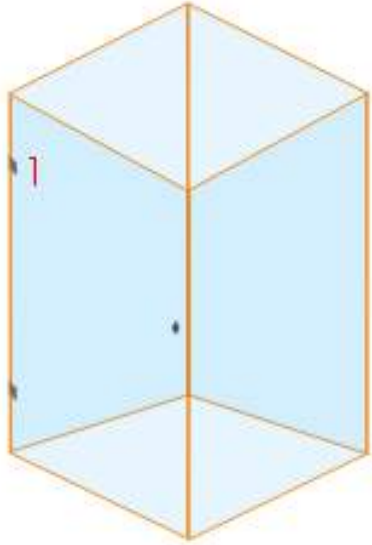


135° Glass to Glass clip



180° Glass to Glass clip

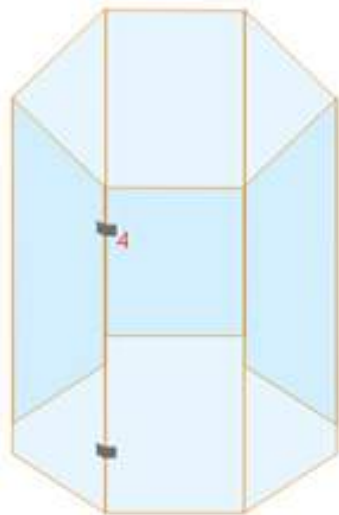
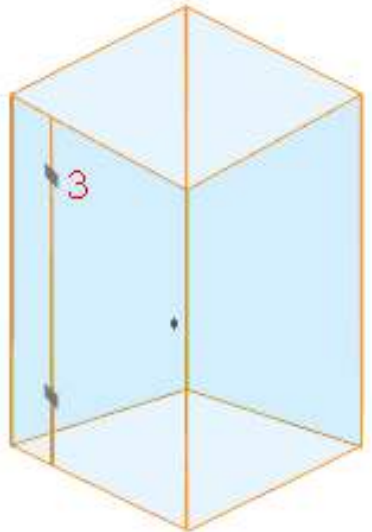
Shower hinges



1 - 90° Glass to Glass hinge



2 - 90° Wall to Glass hinge



3 - 180° Glass to Glass hinge

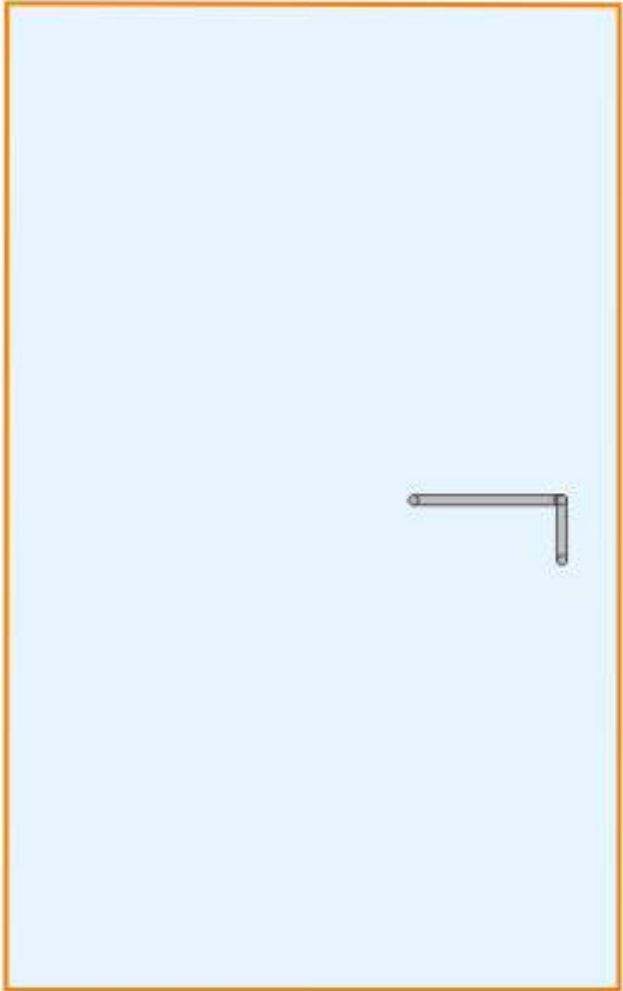


4 - 135° Glass to Glass hinge

Shower cubicle knobs

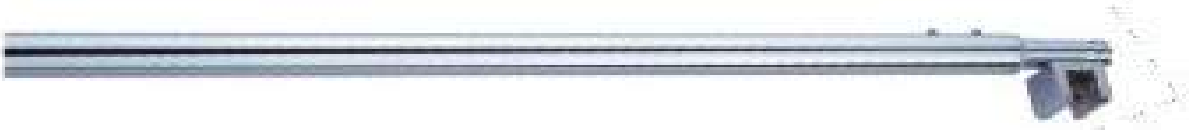


Towel handles



Shower Header Bars & Clips

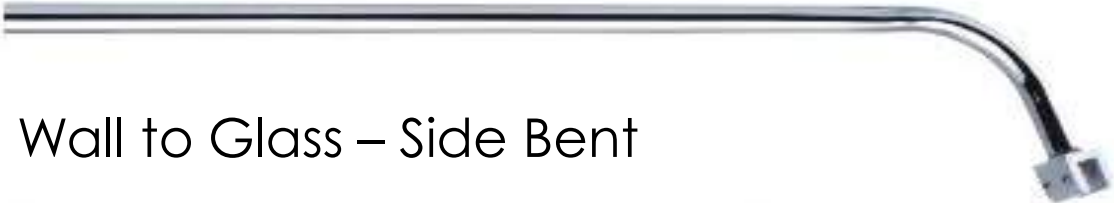
These are the bars required to be fixed from the top of a Shower cubicle to give cubicle the stability it requires. These are fixed in addition to shower hinges & shower clips.



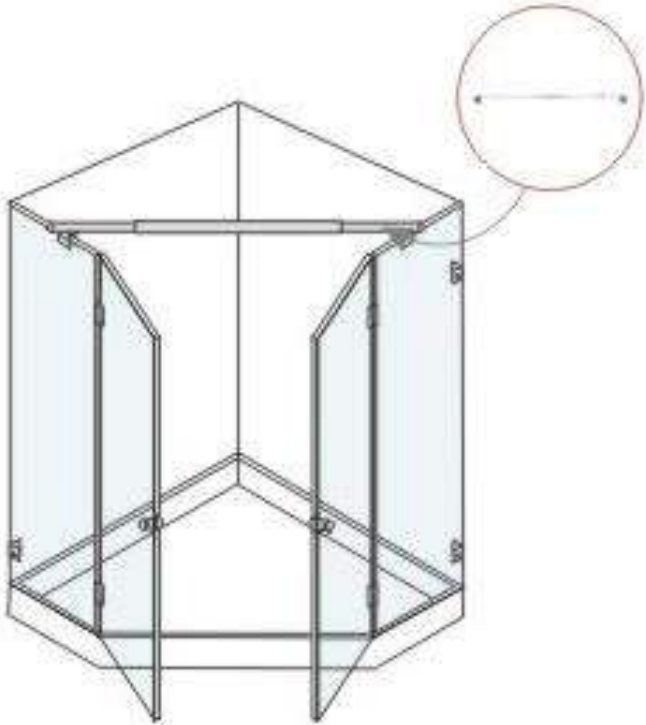
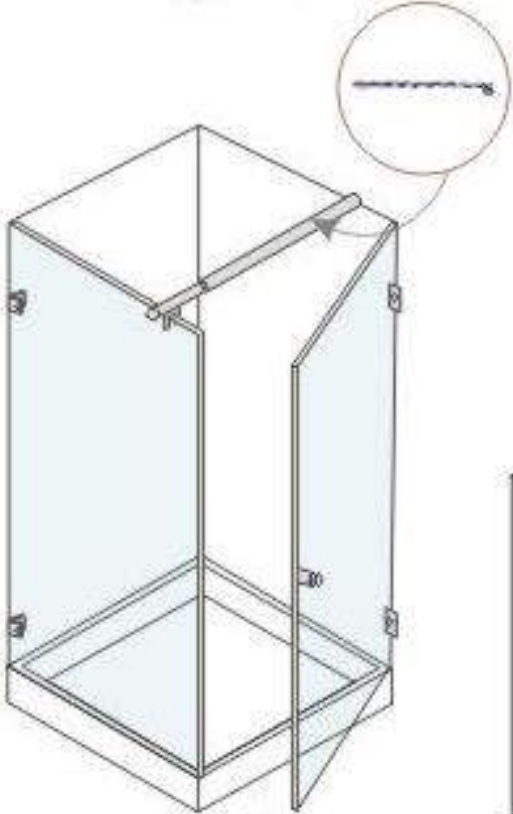
Wall to Glass – One side



Glass to Glass – Two Sides



Wall to Glass – Side Bent



Shower Header Clips: Applications



KA -01
9076



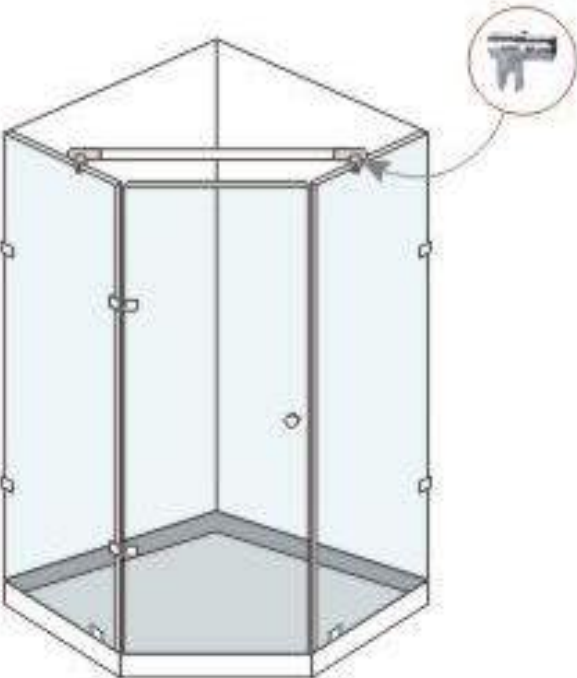
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Shower Header Clips: Applications



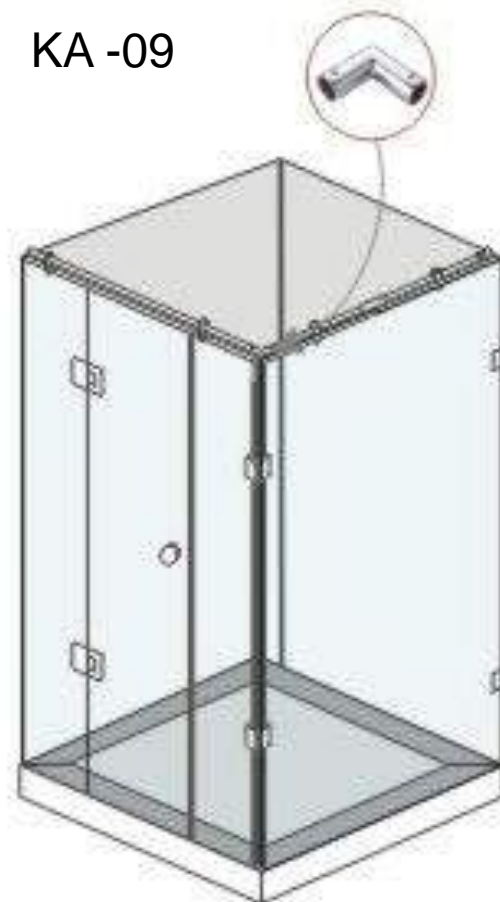
KA -06



KA -10



KA -09



SHOWER CUBICLE



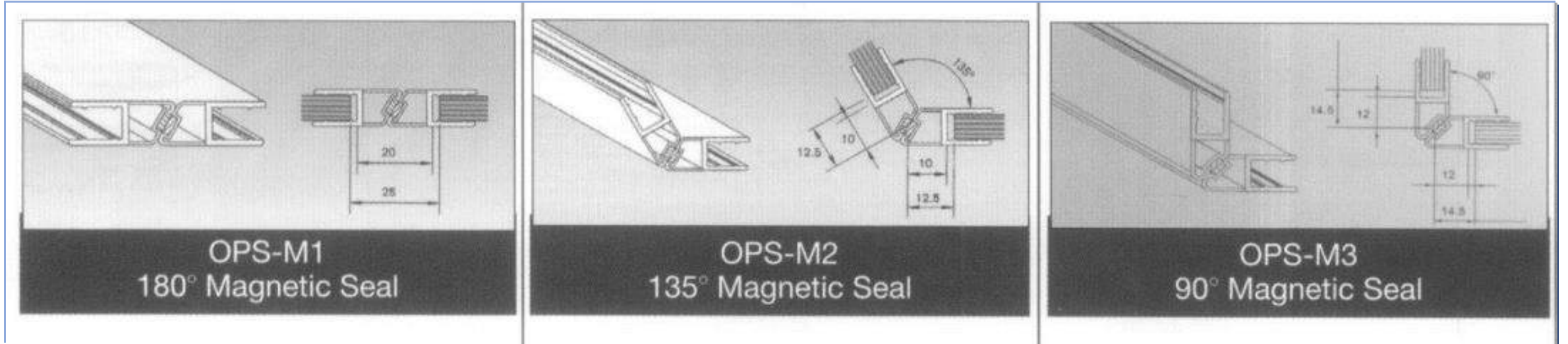


Types of Seals

1. Magnetic Seals
2. Central 180° Weather Seal
3. Water Deflector Seal
4. One Side Seal



Magnetic Seals



- Magnetic seals are used between a fixed glass and a shower cubicle door
- They are meant to hold the door with the glass
- All 3 types are available for 8mm, 10mm and 12mm of glass thickness

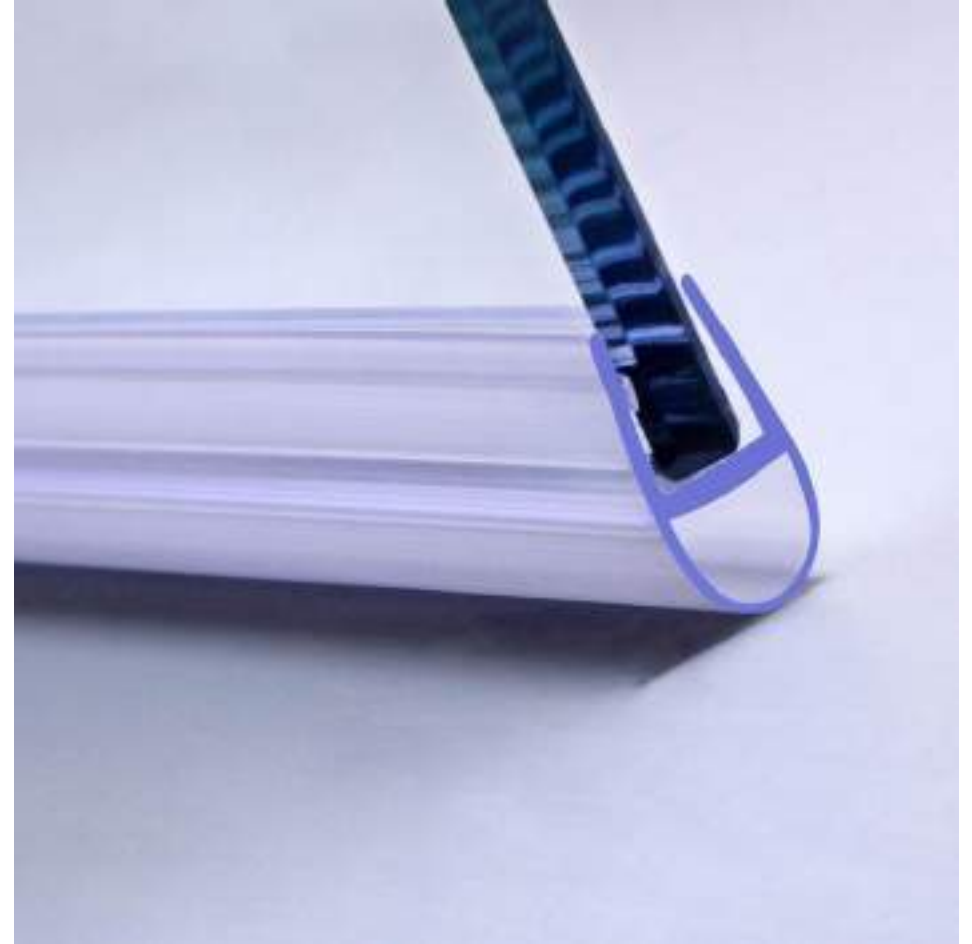
Magnetic Seals



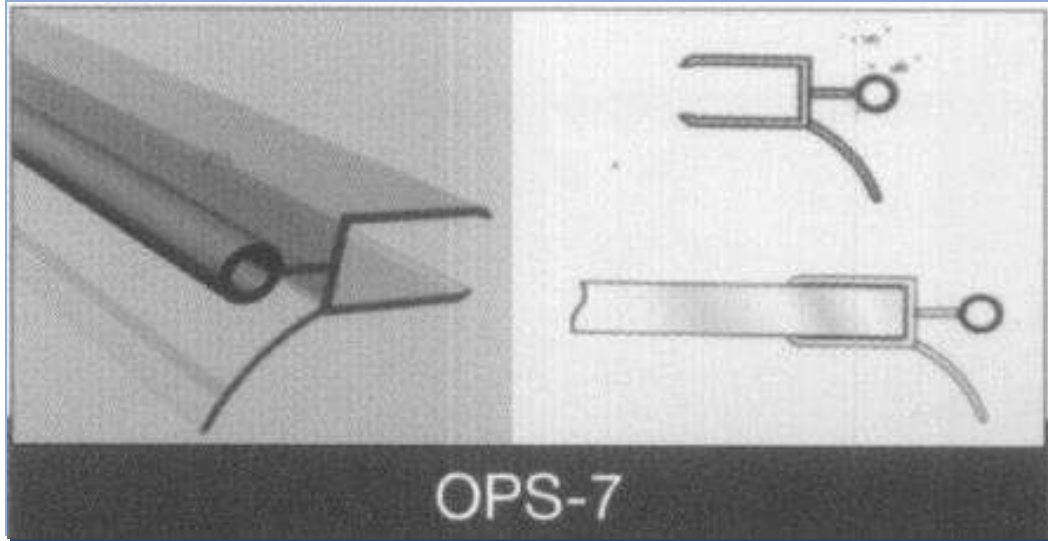
Central 180° Weather Seal



- Used between two glasses
- The glasses are at 180 degrees to each other
- This prevents banging of door with each other



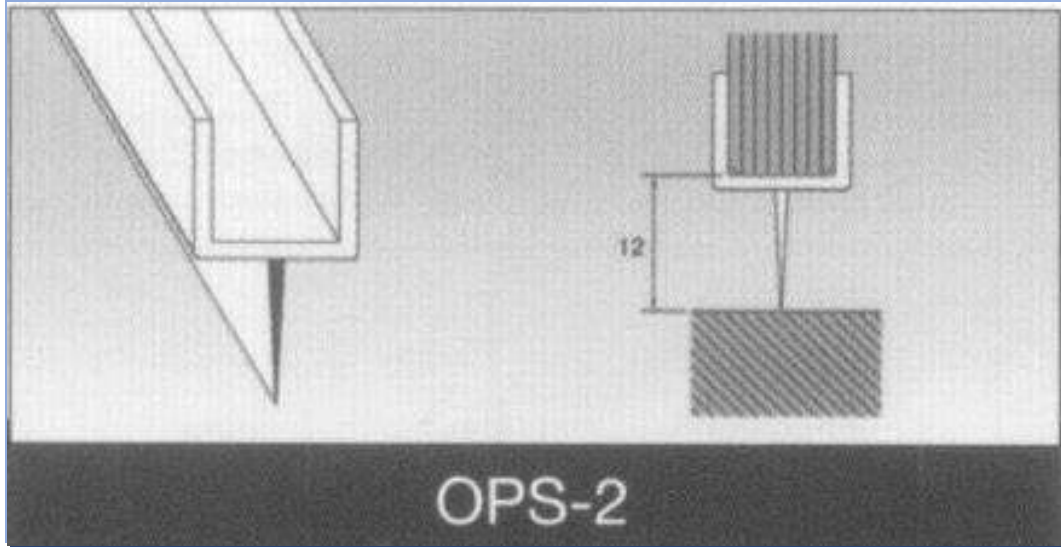
Water Deflector Seal



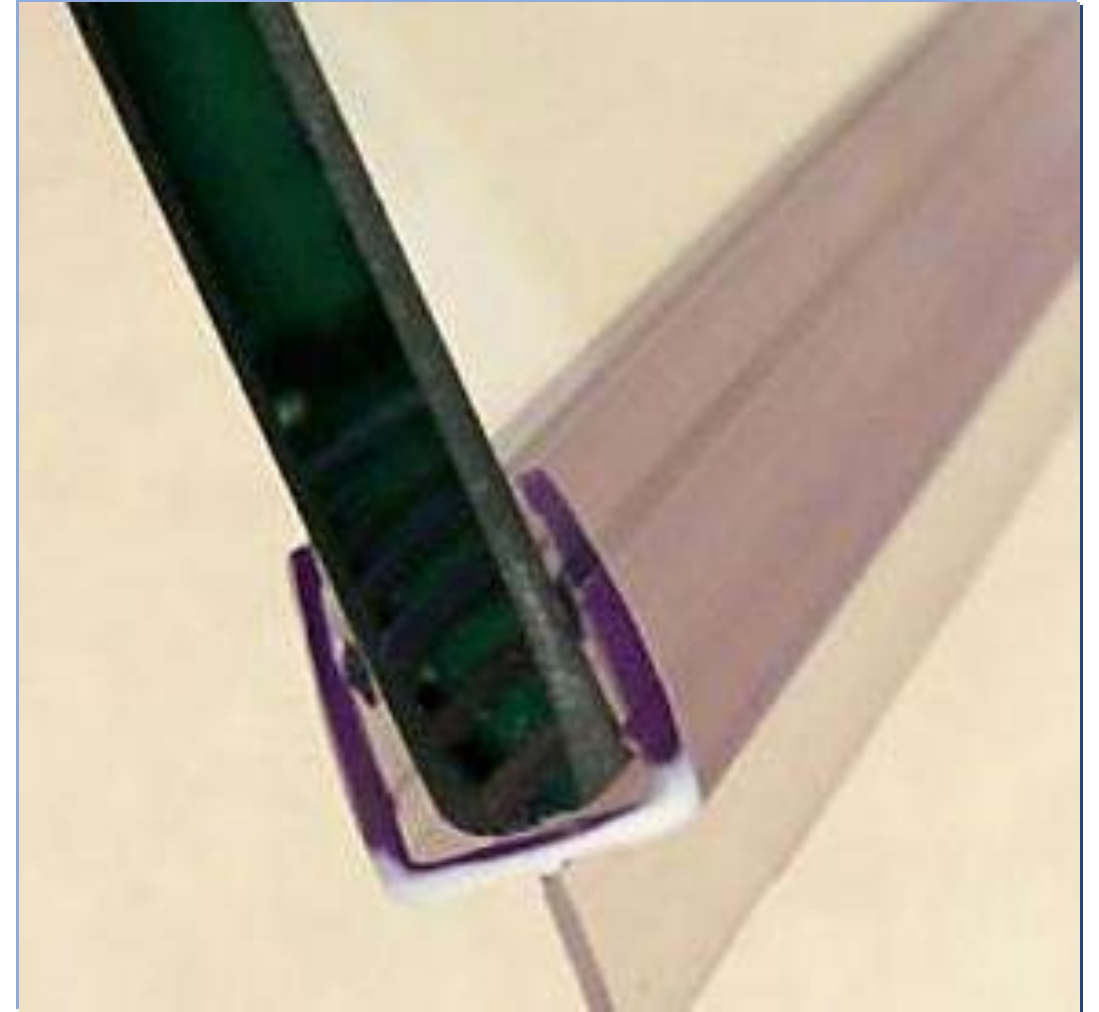
- Used at the bottom of glass door
- Acts like a mop to clean water
- Does not allow water to seep outside the shower cubicle



One Side Seal (Soft)



- Used between glass and wall
- Used in Air conditioned rooms for maintaining the cooling temperature of room
- Used in shower cubicles to avoid water seepage through gaps



Kurve Shower hinges

Product code: 5765



Glass to Glass hinge
90 degree

Product code: 5764



Glass to Glass hinge
135 degree

Product code: 5759



Glass to Glass hinge
180 degree

Product code: 5758



Wall to glass hinge
offset

Product code: 5757



Wall to glass hinge

Product code: 5766



Wall to glass bracket

Kurve Shower hinges- Features

- Elegant and appealing curvilinear design.
- Made of SS 304 which makes the fittings highly corrosion resistant.
- Surface polishing with chrome prevents water seeping into the fitting
- Gasket provided to accommodate glass from 8-12 mm
- Suitable for door weight up to 45 kg and width up to 1000 mm
- The door will shut automatically when closed till 30 degrees

Kurve Shower clips

Product code: 5767



Wall to glass clip

Product code: 5769



Wall to glass clip
90 degree

Product code: 5768



Wall to glass clip
135 degree

Product code: 5771



Wall to glass clip
180 degree

Product code: 5770



Wall to glass clip
90 degree

Kurve Shower clips- Features

- Elegant and appealing curvilinear design.
- Made of SS 304 which makes the fittings highly corrosion resistant.
- Surface polishing with chrome prevents water seeping into the fitting
- Gasket provided to accommodate glass from 8-12 mm

Sliding system

Automatic Sliding system

Door Automatic Products



ST-20 (Ceiling mount, box type)





ST-25 (Wall mount, box type)

“AVAILBLE in 2m, 4.2m, 5.2m & 6.2m”

Door Automatic Components

Part	Picture	Origin	Remarks
Aluminum Profile (Rail & Cover)		Korea	Revised Profiling for more opening
Motor		Germany Korea	3 Millions Cycle Testing
Controller		Korea	E8: Secret function (for bad customer)
Timing belt		Japan	Enhanced Quality for longer durability

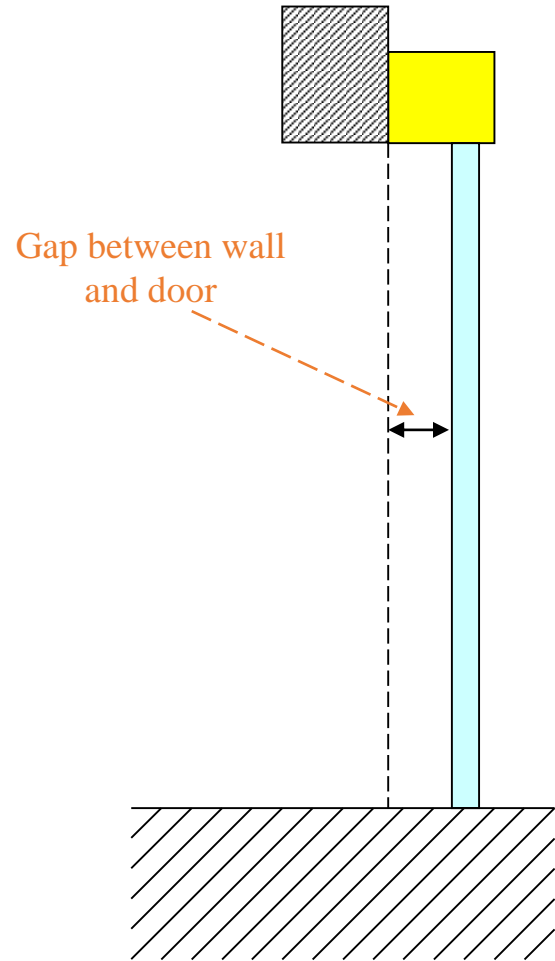
Door Automatic Components

Part	Picture	Origin	Remarks
Hanger roller		Korea	* 2 types: 1 wheel or 2 wheel
Pulley		Korea	Robust design for better quality
On/off switch		Korea	Technical component detailing
Guide roller		Korea China	Korea: for glass door China: for frame door

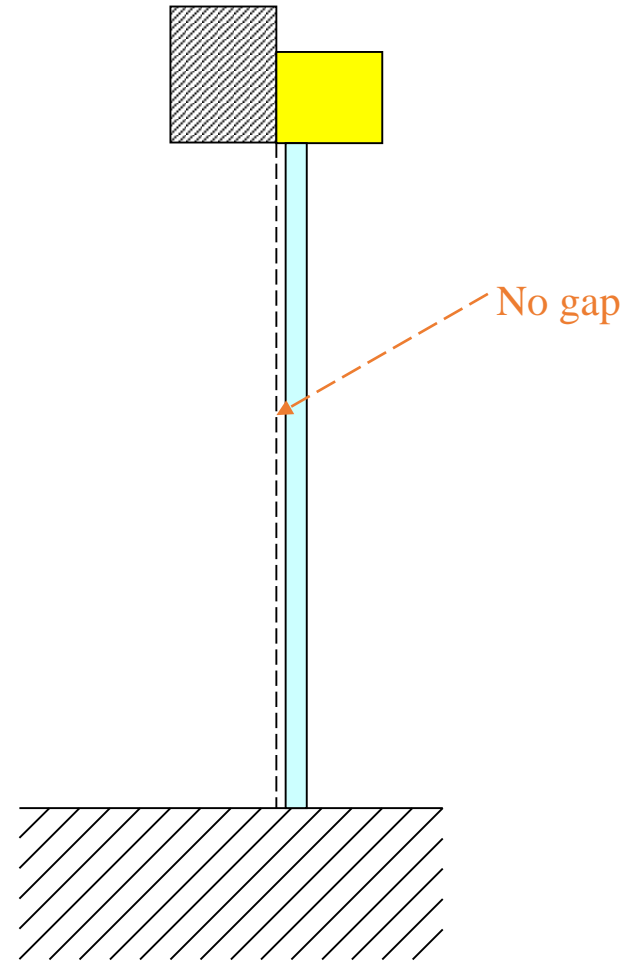
Technical Data

Technical Data	ST10S				
Length of operator	2000 mm	4000 mm	2000 mm	4000 mm	6000 mm
Macel Name	ST10S	ST10D	ST20S	ST20D	ST20D - 6 m
Max. Door Weight	180 kg	160 kg	180 kg	160 kg	160 kg
Clear Passage Length	Max. 965 mm	Max. 1940 mm	Max. 965 mm	Max. 1940 mm	Max. 2930 mm
Clear Passage Height	No Limit (but must consider door weight and door width) 2100 mm - 3000 mm				
Power Consumption	100 Watts				
Power Supply Factory	Set: 180 - 240V (110V; on demand)				
Open/Close Speed	(Door Weight: 70 kg) Open Speed 135 mm/sec - 550 mm/sec				
Close Speed	75 mm/sec - 350 mm/sec				
Open Hold Time	Max .999 seconds				
Power Failure	Adjustable: 1. No open 2. 100 mm open 3. Full open (option battery pack)				
Certifications	UL, ISO9001, CE Lifecycle tests 1 million (1,000,000) cycling test pass				

Installation – Opening height requirement

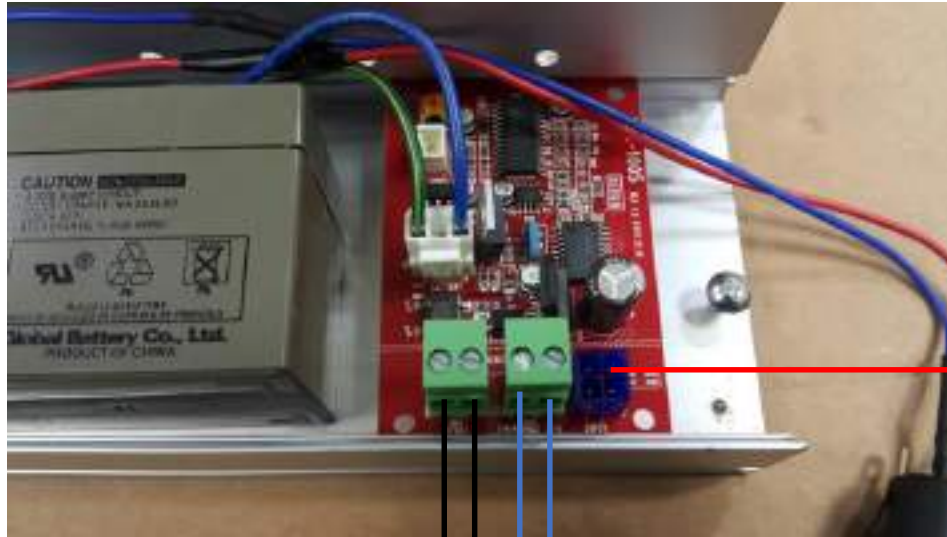


Standard Installation



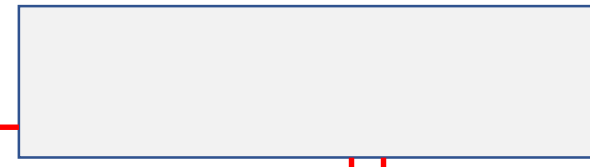
Godrej Installation

Emergency Back-up



Fire Alarm: 24V

<Controller>



Sensor or switch, etc.

①



<Emergency switch>

②

※ In case of fire alarm:

- All sensor(①) that are connected in the controller are not worked.
- Only Emergency switch(②) can be worked. (if you press this button, the door open.)
- If you want to door open when fire alarm, you can connect this two line at normal times.

※ If you want to use only battery pack not fire alarm function, no need to use Fire alarm terminal and Emergency switch terminal.

Power Failure Options

Setting	Action on power failure	Power-on again
[00]	OPEN ① UPS: Full open ② No UPS: 100mm open	close→open→close (re-setting for open distance)
[01]	No open	open→close (re-setting for open distance)
[02]	Operate with UPS (If there is no battery more, it will be finished with close position)	open→close (re-setting for open distance)
[03]	Operate with UPS (If there is no battery more, it will be finished with open position)	close→open→close (re-setting for open distance)
[04]	OPEN ① UPS: Full open ② No UPS: 100mm open	close (No open distance setting)
[05]	No open	No open distance setting
[06]	Operate with UPS (If there is no battery more, it will be finished with close position)	No open distance setting
[07]	Operate with UPS (If there is no battery more, it will be finished with open position)	close (No open distance setting)

Product Comparison

	OZONE	DORMA	GODREJ
Nation	India	Germany (China)	Korea
Model	OZOM-111E	ES200 Easy	ST-25D
Motor	65W, Brushless	65W	90W, Brush (Kor) 100W, Brush (Dunker)
Max. door weight	100kg x 2	100kg x 2	120kg x 2
Open hold time	-	0.5 ~ 30 sec	0 ~ 5,000 sec
Self-learning	O	O	O (choice)
Automatic Reverse	O	O	O (adjust sensitivity)
Interlock	X(?)	X(?)	O
Battery pack with fire alarm function	X(?)	X(?)	O
Bad customer fuction	X	X	O (E8)

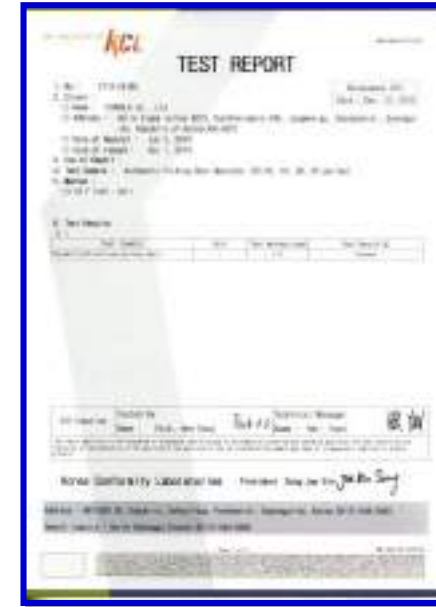
Certifications



ISO 9001



CE (Sliding Door)



3 million Cycling Test

Service – Key Differentiator



Pre and post sales service



Can offer AMC



24 x 7 call center



Sales Network present in more than 580 towns



One point contact for any kind of query / solution

References

1. CPWD Commercial Building – New Delhi
2. Bhutan Airport - Bhutan
3. Big Bazar Mall – Guwahati
4. Gems School – Kochi
5. Tata Primanti Residential Tower – Delhi
6. Gangtok Secretariat - Sikkim
7. SBI Zonal Office – Kolkata
8. Hotel Miraj HO – Udaipur
9. NRL project – Guwahati
10. Rastrapati Bhavan – Delhi
11. Shobhasariya Engineering College – Sikar



Manual Sliding system

Glass sliding door system GSS144-(60kg)

Product code	Baan Code
5787	LKYGFS011



- Four fiber reinforced plastic roller of 30mm diameter
- SS 304 glass holding point for high corrosion resistance
- Height adjustable glass holder point.
- Roller configuration for even distribution of load
- Independently connected rollers to prevent damage to track and rollers
- Suitable for 8 mm or 12 mm glass
- Suitable for glass door weight up to 60kg
- 50,000 life cycles tested

Glass sliding door system GSS145-(80kg)

Product code	Baan Code
5788	LKYGFS11A



- Four fiber reinforced plastic roller of 30mm diameter
- SS 304 glass holding point for high corrosion resistance
- Height adjustable glass holder point.
- Roller configuration for even distribution of load
- Independently connected rollers to prevent damage to track and rollers
- Suitable for 8 mm or 12 mm glass
- Suitable for glass door weight up to 80kg
- 50,000 life cycles tested

Sliding door track-T1

Product code	Baan Code
5789	LKYGFS012



- Single door track
- Aluminum anodized track
- Wall/Ceiling/Glass mountable
- Small size for better look

Double sliding door track-T2

Product code	Baan Code
5790	LKYGFS013



- Suitable for double door
- Aluminum anodized Track
- Robust in construction
- For ceiling mounting
- Small size for better look

Sliding door with fix glass- T3

Product code	Baan Code
5791	LKYGFS014



- Single door track
- Aluminum anodized track
- Wall/Ceiling/Glass mountable
- Small size for better look

Wall to track connector

Product code	Baan Code
5606	LKYGSF015



- Track mounting bracket
- Elongated hole to compensate drilling inaccuracies
- Flat face for firm mounting
- Mounted on to the top of the track
- Made of SS 304 material for high corrosion resistance

Sliding Door Handle

SDH-01

Product code	Baan Code
5450	LKYSGH001



- Sliding glass door handle
- Glass preparation 48mm diameter hole
- SS 304 material for high corrosion resistance

SDH-02

Product code	Baan Code
5452	LKYSGH002



- Sliding door through handle
- Ensures better operating comfort
- SS 304 material for high corrosion resistance

SDH-03

Product code	Baan Code
5453	LKYSGH003



- Sliding door handle
- Rectangular shape handle
- SS 304 material for high corrosion resistance

Spider Fittings

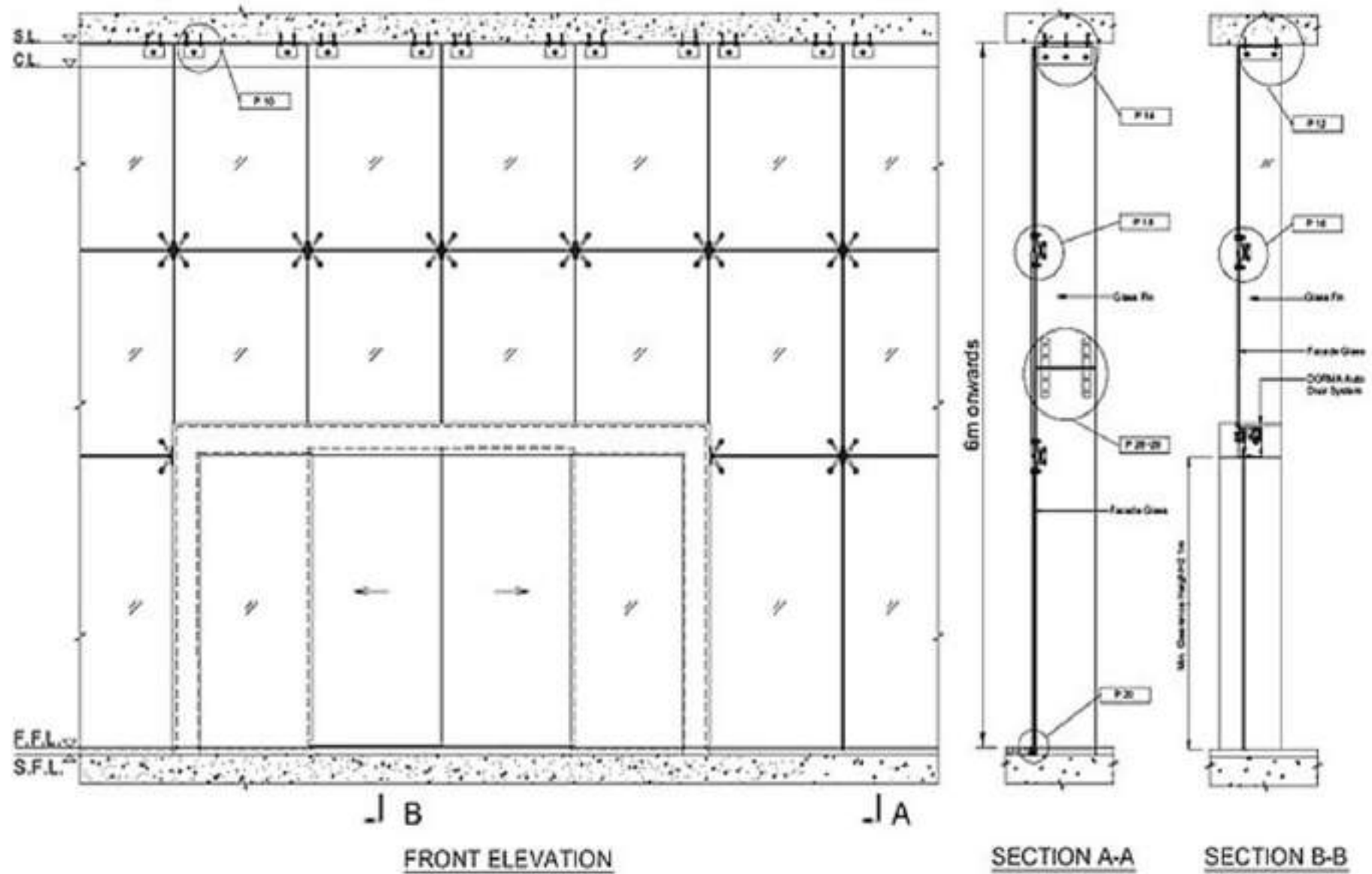
What is Façade?

- The façade of a building is often the most important aspect from a design standpoint, as it sets the tone for the rest of the building.
- From the engineering perspective of a building, the façade is also of great importance due to its impact on energy efficiency.

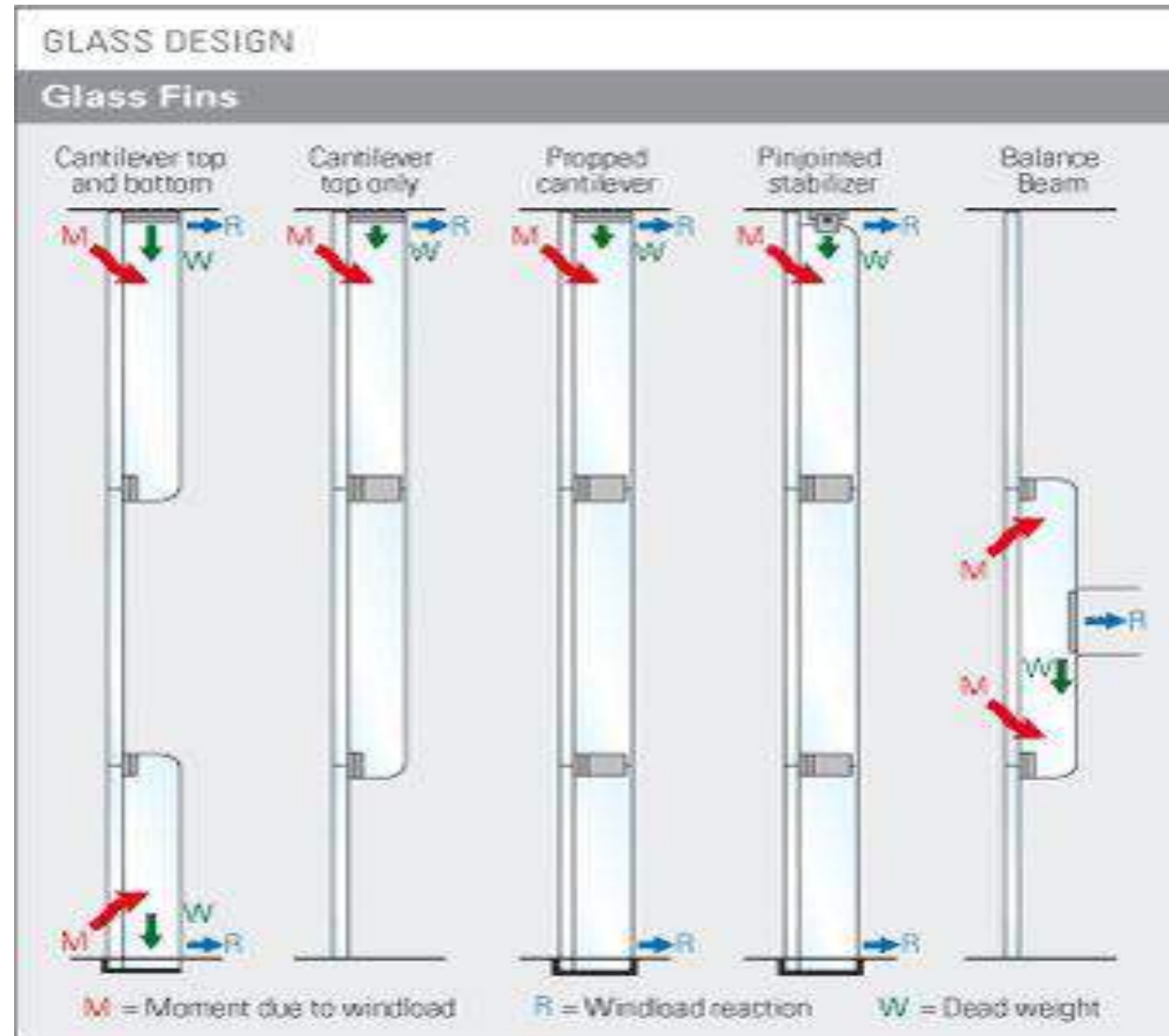
Different Types of Façade's



Technical Drawing



Different types of glass fin's



Wind Pressure across India



Zone	Wind speed (m/s)
55	55
50	50
47	47
44	44
39	39
33	33

♦ Pabal - 39 m/s

Always check this type of map to see the max. expected wind speed in your area. You want to design a building which can survive the worst case scenario.

Spiders with Fin



FEATURES:

- Installed with Routels
- Fin provide firm holding to fin glass
- SS 316 material which makes fitting highly corrosion resistant
- Maximum façade thickness up to 15mm and Fin thickness up to 19mm
- Available in matt and chrome finish
- Available in 200 & 220 center distance

Spiders without Fin



FEATURES:

- Attached to fixed structure
- Installed with routels
- SS 316 material which makes fitting highly corrosion resistant
- Maximum façade thickness up to 15mm
- Available in matt and chrome finish
- Available in 200 & 220 center distance

Routels & Holders



Articulate routel



Fixed routel
Counter Sunk



Fixed routel



Holder for without
fin spider (MS)



Holder for without
fin spider (SS316)

Routels Features:

- Counter sunk head bolt
- Teflon washer to prevent glass damage
- Adjustable up to 15mm façade thickness
- SS 316 material which makes fitting corrosion resistant
- Available in matt and chrome finish

Holder Features:

- Ensure proper gripping of without fin spiders
- Bottom part MS for welding compatibility with MS structure
- Top part stainless steel for better aesthetics (SS 304)
- Available in matt and chrome finish

Splice Plate



Splice plate 200

Splice plate 250

Splice plate 300

Splice plate 400

Features:

- Splice plate 200mm/ 250 mm/ 300 mm/ 400 mm
- Two/ Three/ Four point holding with each fin part
- Teflon washer to prevent damage to glass
- SS 304 material which makes fitting corrosion resistant
- Available in matt and chrome finish

Fin Plate



Fin plate 200



Fin plate 250



Fin plate 300



Fin plate 350



Fin plate 400

FEATURES:

- Three point holding of fin
- Elongated holes allows installation flexibility
- Teflon washer to prevent damage to glass
- Flat base to hold strongly with floor or ceiling
- SS 304 material which makes fitting corrosion resistant
- Available in matt and chrome finish

THANK YOU