



Patch Fittings

Merlin & Prima Series



In the field of architectural fittings for glass doors, **P&M[®]** provides high quality and total design flexibility for ease of installation, safety, security and functionality.

Our standard fittings are designed to suit 8-15mm glass panels.

8-10-12mm glass panel – Use different thickness of gasket

15 & 19mm glass panel – Use extended screws & pivots.

Pivot point from side panel is either 55mm or 65mm.

Door Weight Calculation

To estimate glass panel weight, the basic formula to use will be:

$$\text{WIDTH (m)} \times \text{HEIGHT (m)} \times 2.5 \text{ factor} \times \text{glass thickness (mm)} = Y \text{ kgs}$$

Therefore, for a glass panel of 12mm thickness, 1.0m width and 2.7m height, the glass panel weight will be $1.0 \times 2.7 \times 2.5 \times 12 = 81\text{kgs}$.

Fittings are designed to carry maximum weight up to 120kg but for door width exceeding 1100mm, it is practical to use door rails.

Torque for Fixing Screws

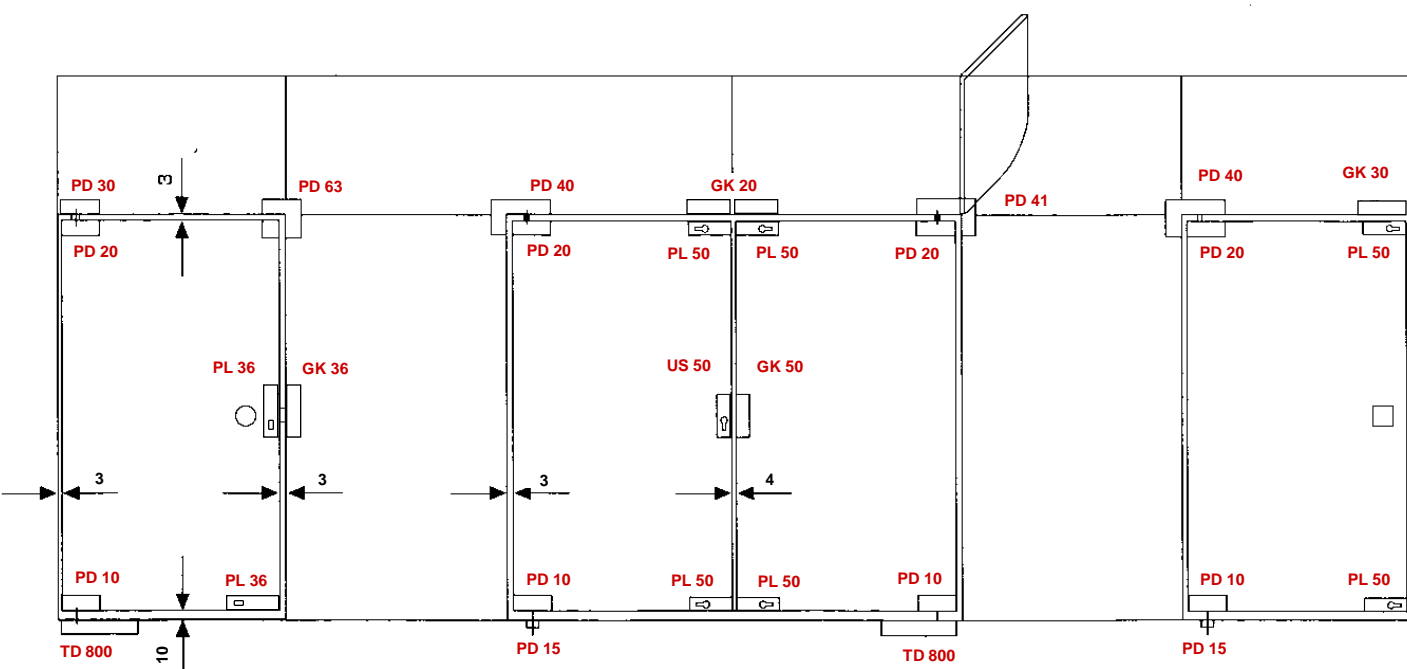
Apply torque on each screw in progressive order until all screws reach the same required torque almost together.

Cap Screw M6 (4mm allen key) – 10 Nmm

Cap Screw M6 (5mm allen key) – 15 Nmm

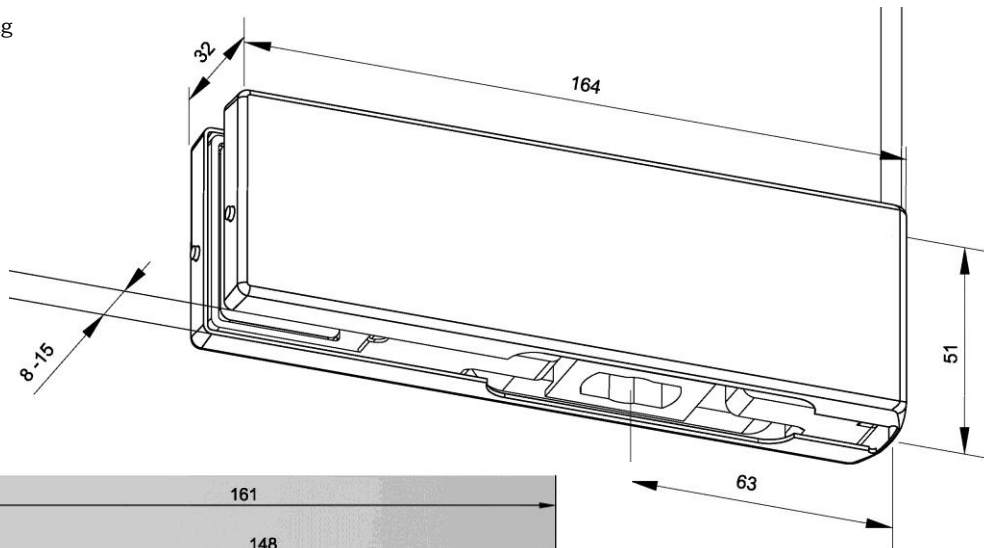
Cap Screw M8 (5mm allen key) – 20 Nmm

Typical Assemblies

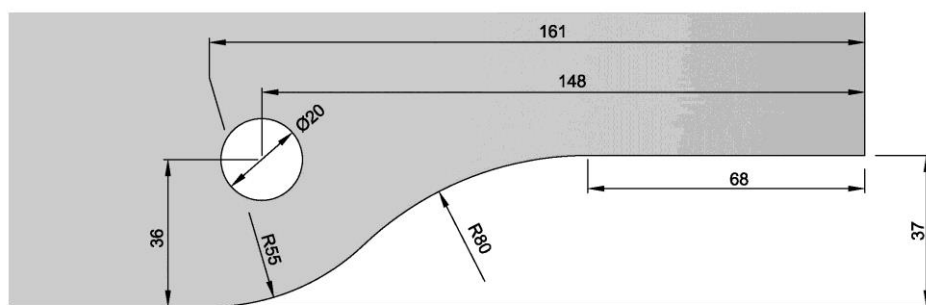


PD10 : Bottom Patch

Include Insert
To Suit TD800 Floor Spring

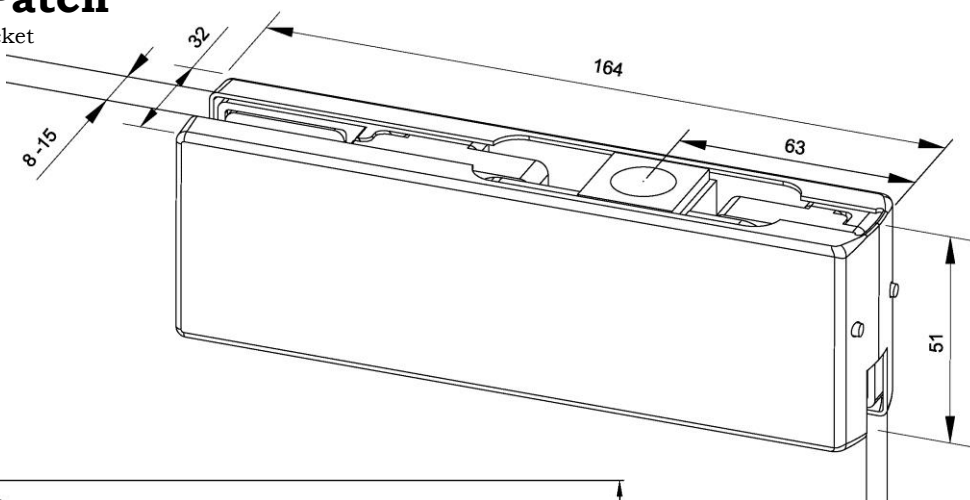


Glass Notch

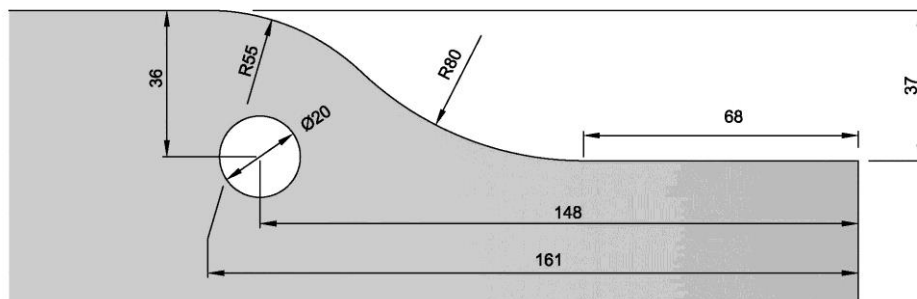


PD20 : Top Patch

Include Insert & Nylon Socket
To Suit PD24 Top Pivot



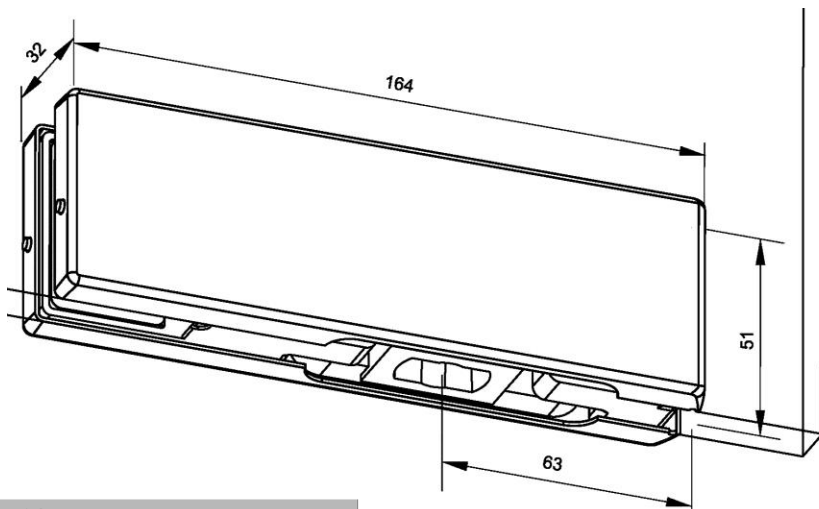
Glass Notch



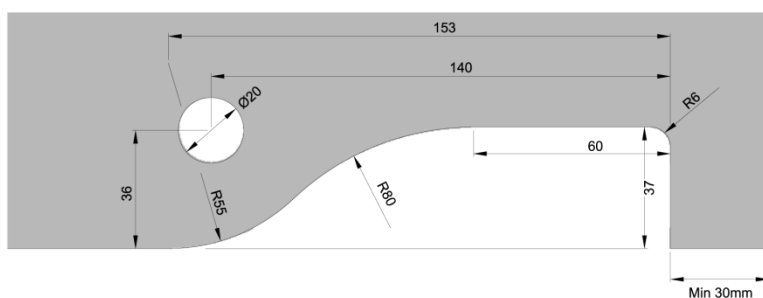
PD11 : Bottom Patch (Variable)

Include Insert

To suit TD800 Floor Spring



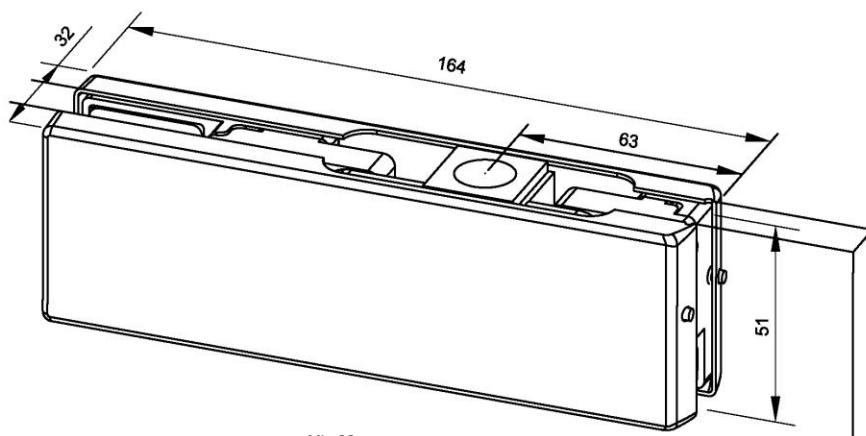
Glass Notch



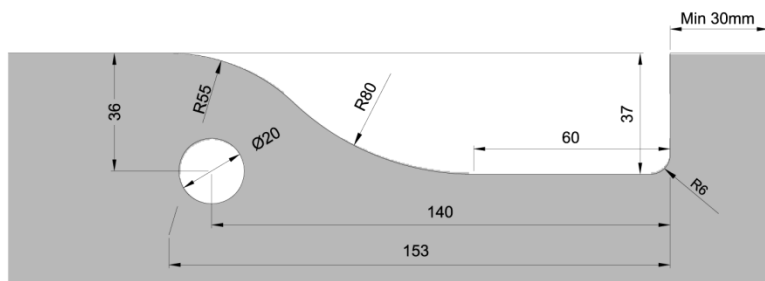
PD21 : Top Patch (Variable)

Include Insert & Nylon Socket

To suit PD24 Top Pivot

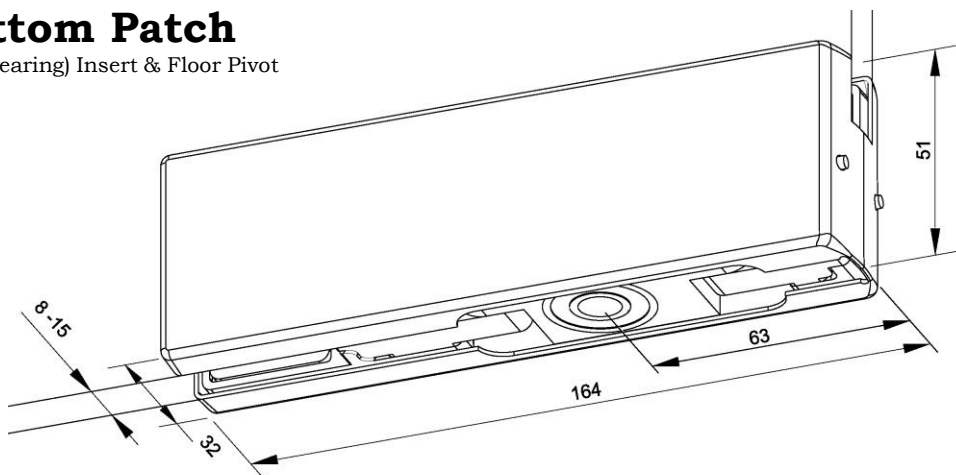


Glass Notch

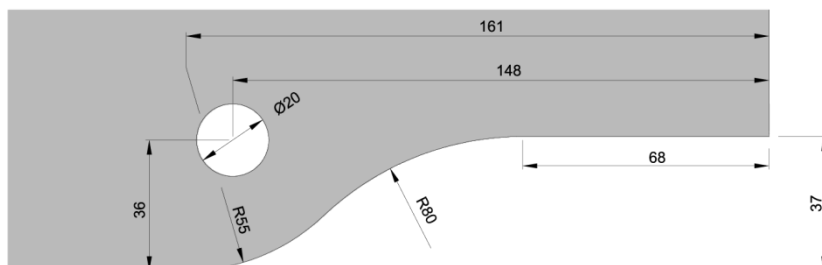


PD12 : Bottom Patch

Include PD15P (Ball Bearing) Insert & Floor Pivot



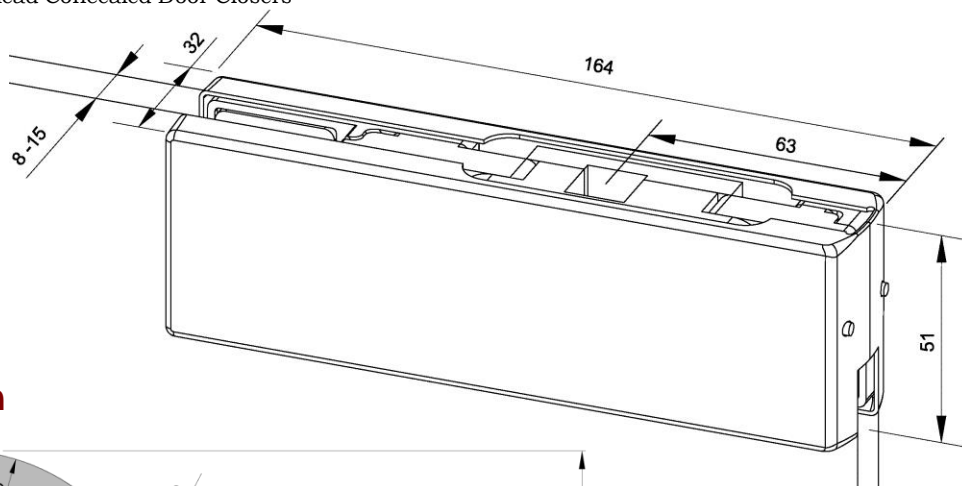
Glass Notch



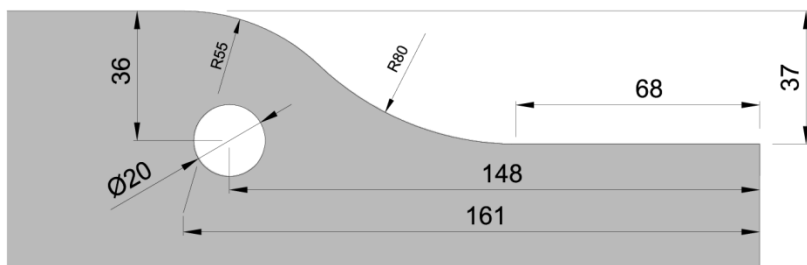
PD22 : Top Patch

Include Square Insert

To Suit OC700 – Overhead Concealed Door Closers



Glass Notch

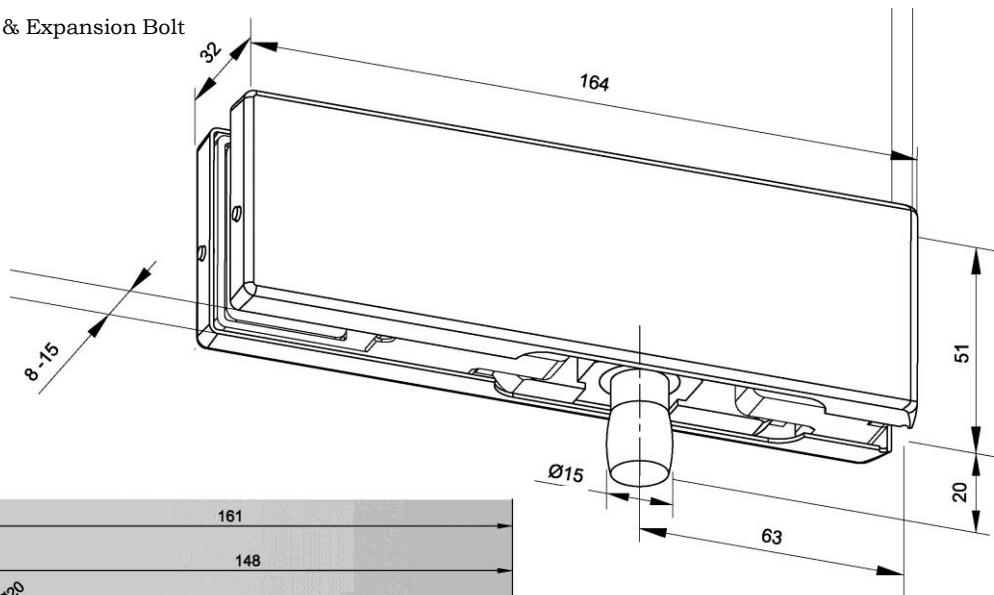


PD30 – Overpanel Patch

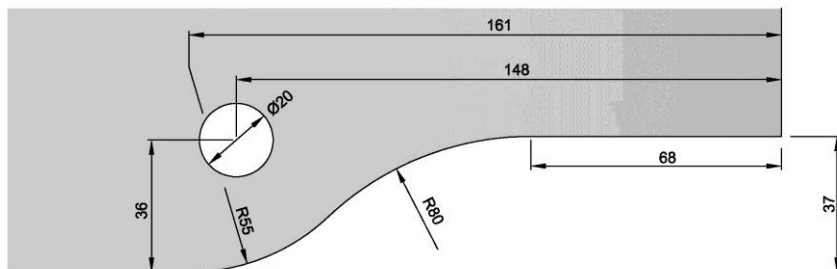
Include Dia. 15mm Pivot & M8 Tapped Hole At Side

Options:

- With M8 Threaded Rod & Expansion Bolt
- with Backplate

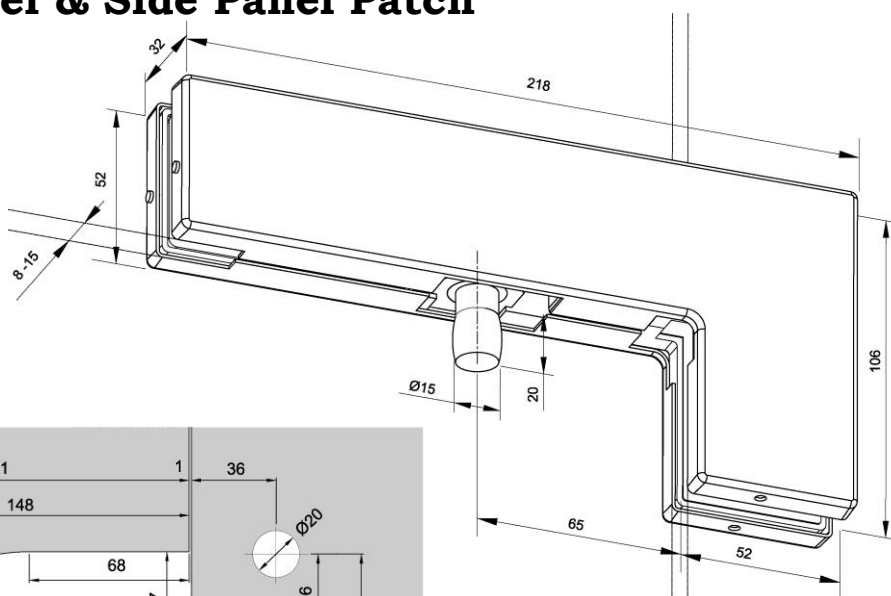


Glass Notch

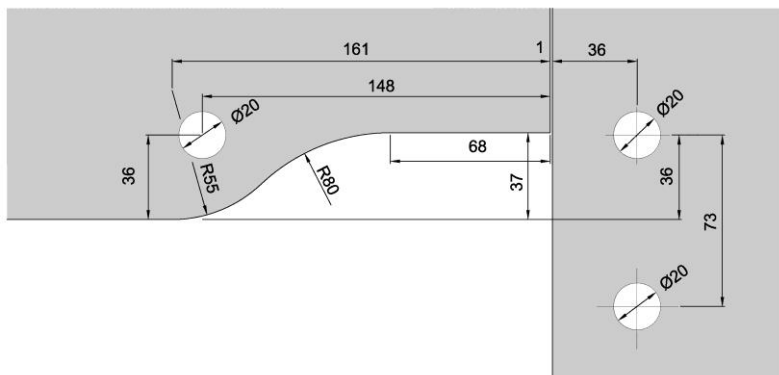


PD40 – Overpanel & Side Panel Patch

Include Dia. 15mm Pivot



Glass Notch



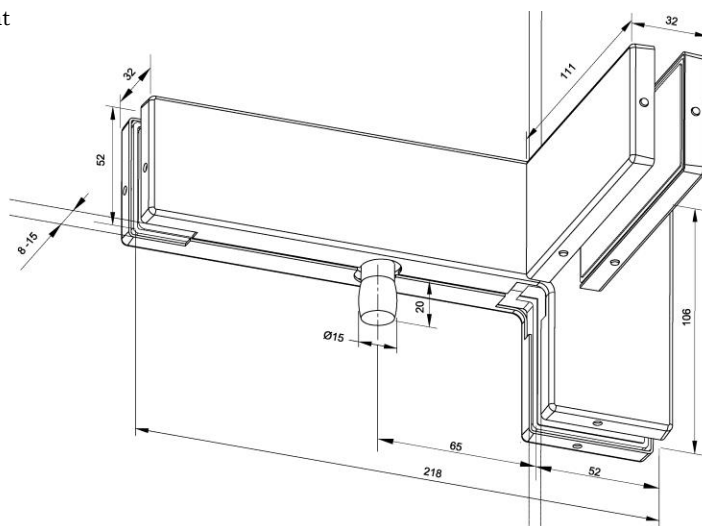
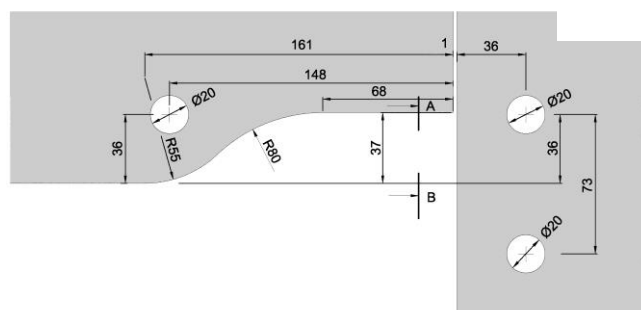
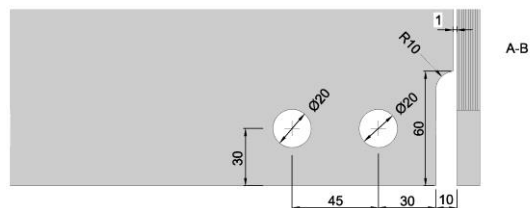
PD41 – Overpanel Patch & Side Panel Patch

Include Dia. 15mm Pivot & Fin Fitting Attachment

Options:

- Left Hand (LH) / Right Hand (RH)

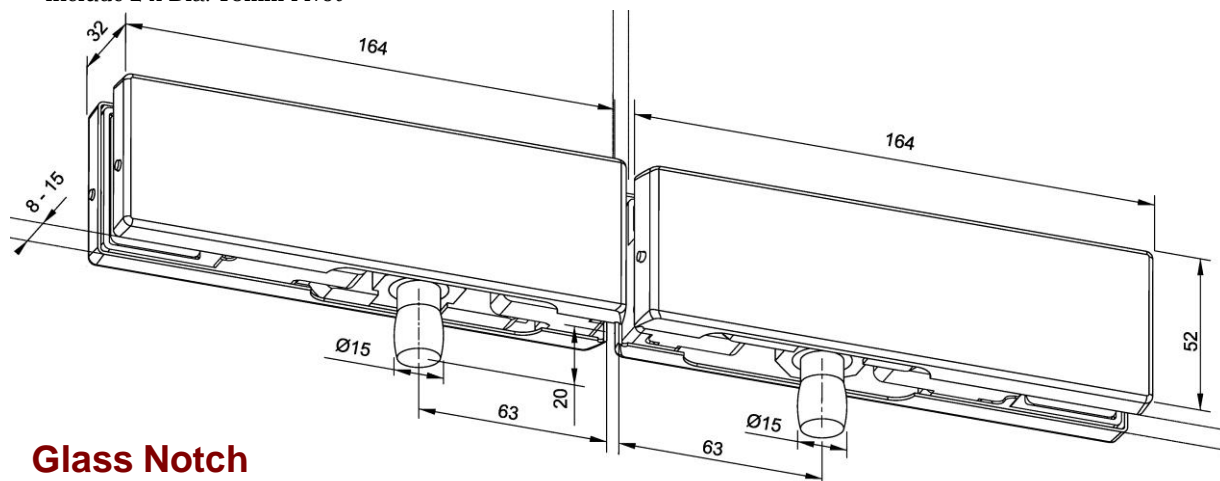
Glass Notch



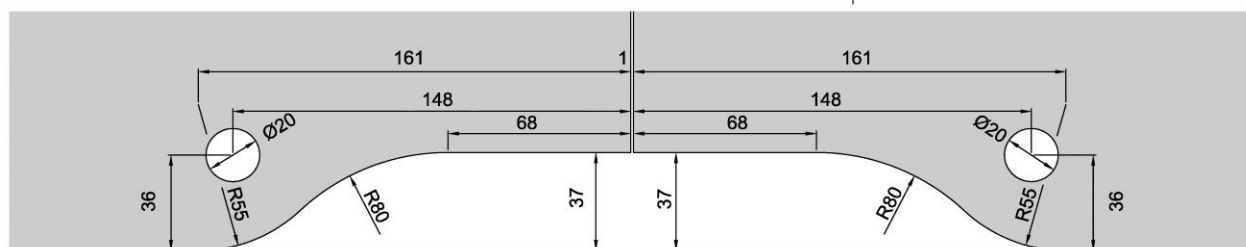
**Note: Illustration shows PD41(LH)
(Left or Right is determined by view from outside)**

PD50 – Double Overpanel Patch

Include 2 x Dia. 15mm Pivot

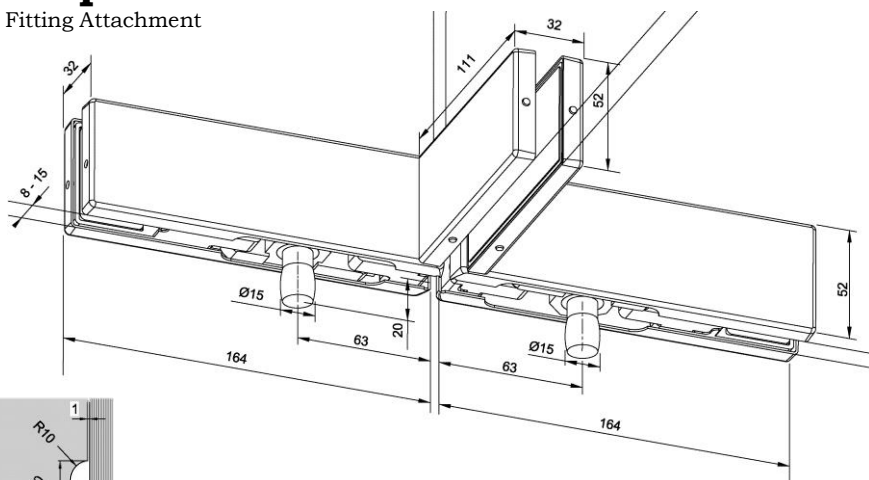


Glass Notch

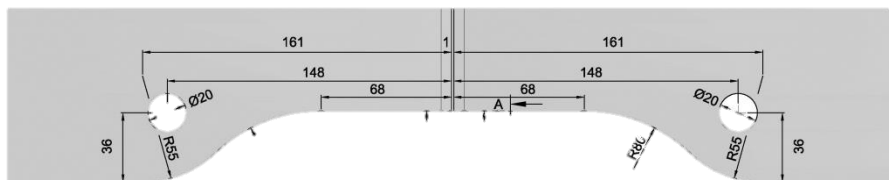
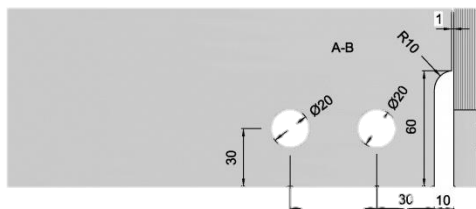


PD51 – Double Overpanel Patch

Include 2 x Dia. 15mm Pivot & Fin Fitting Attachment

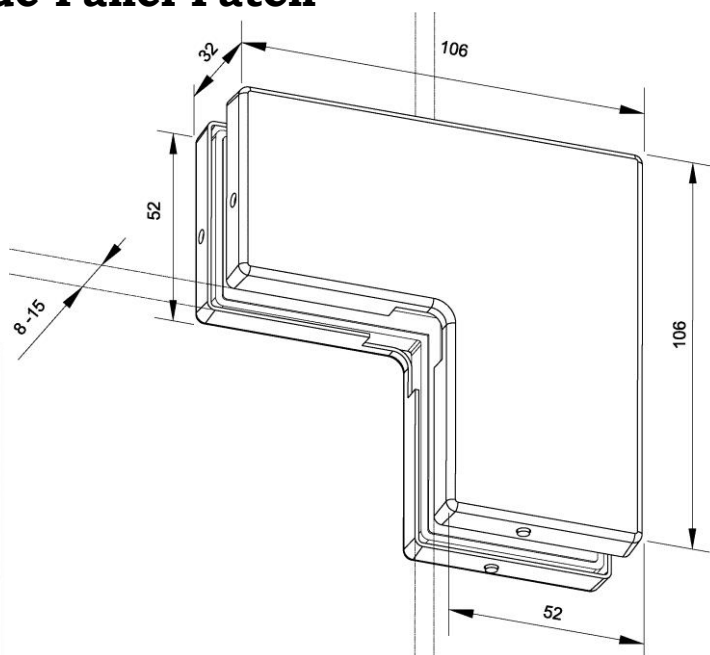
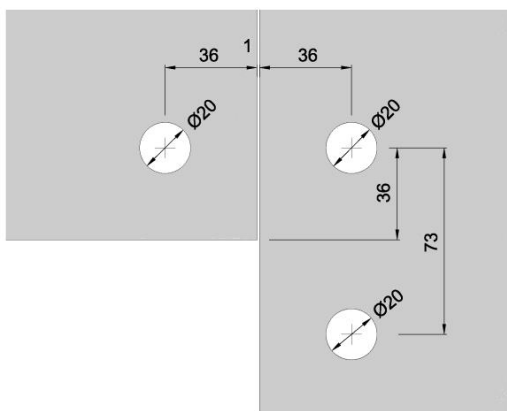


Glass Notch



PD63 – Overpanel & Side Panel Patch

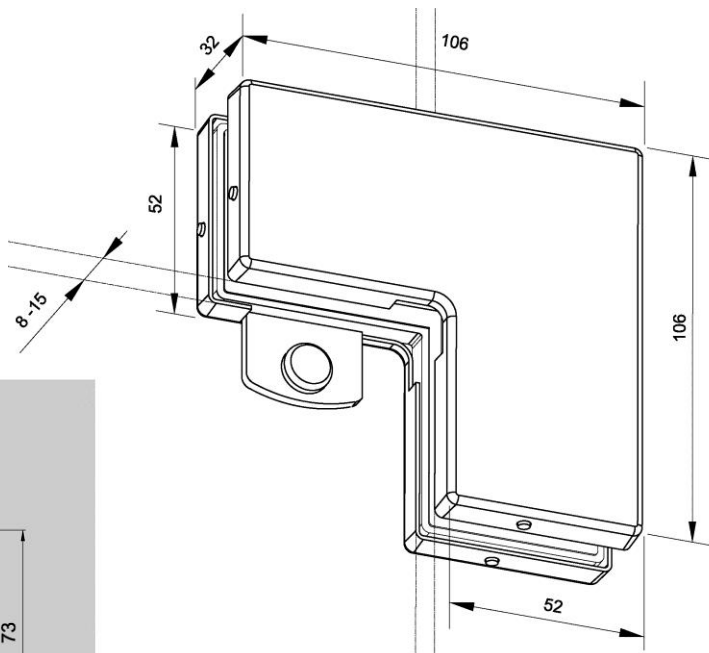
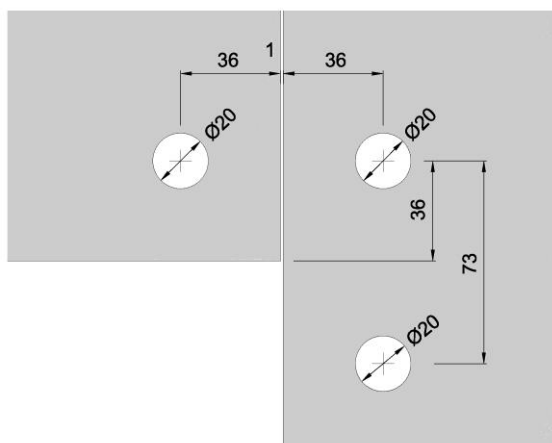
Glass Notch



PD63S – Overpanel & Side Panel Patch

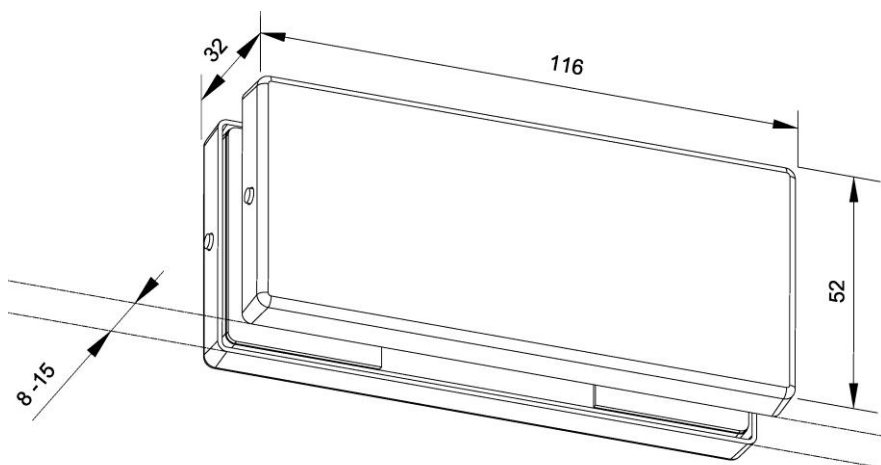
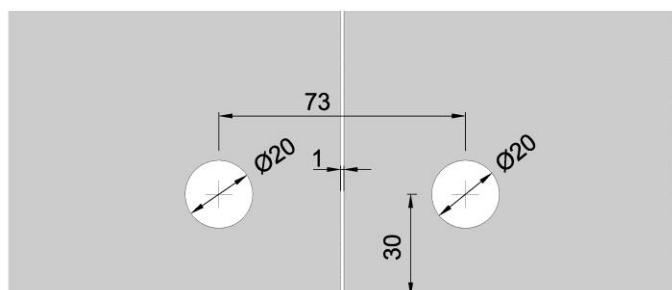
Include Stop Insert

Glass Notch



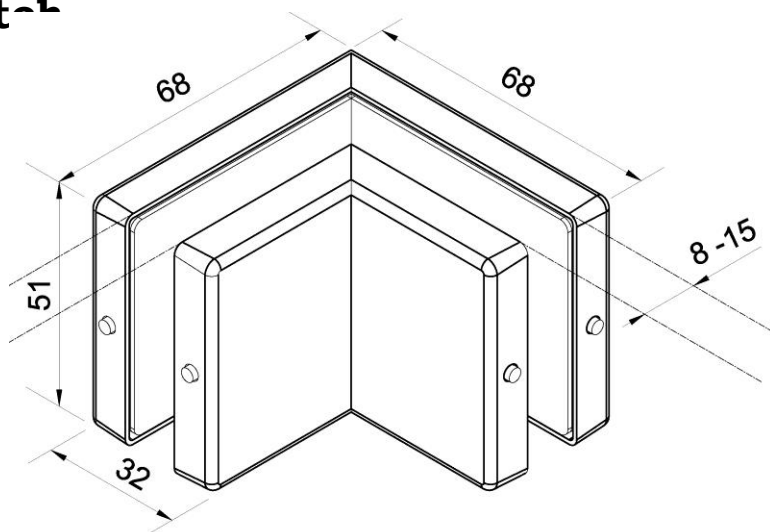
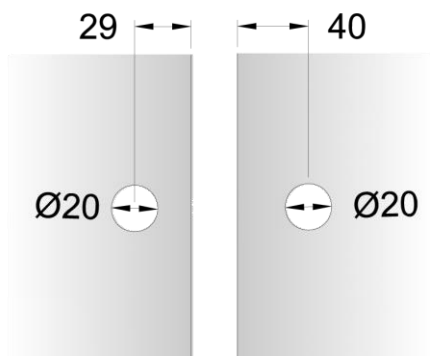
PD70 – Overpanel Patch

Glass Notch



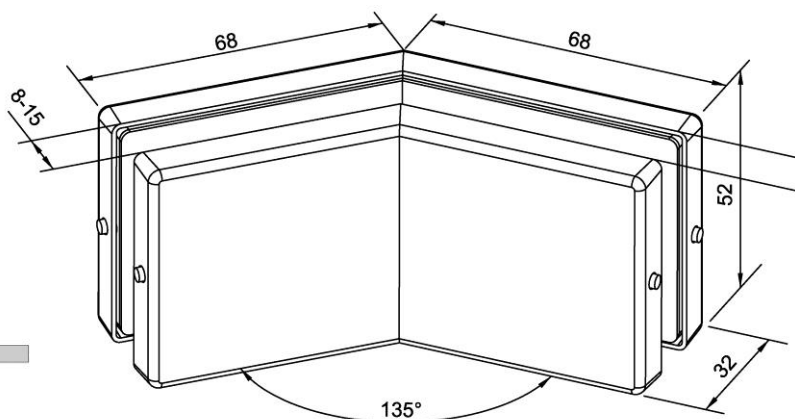
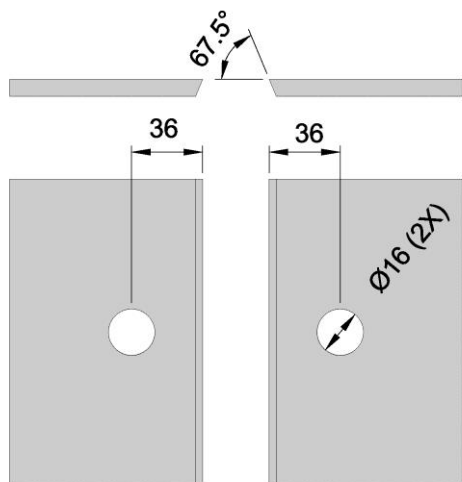
PD70 (90) – Angled Patch

Glass Notch

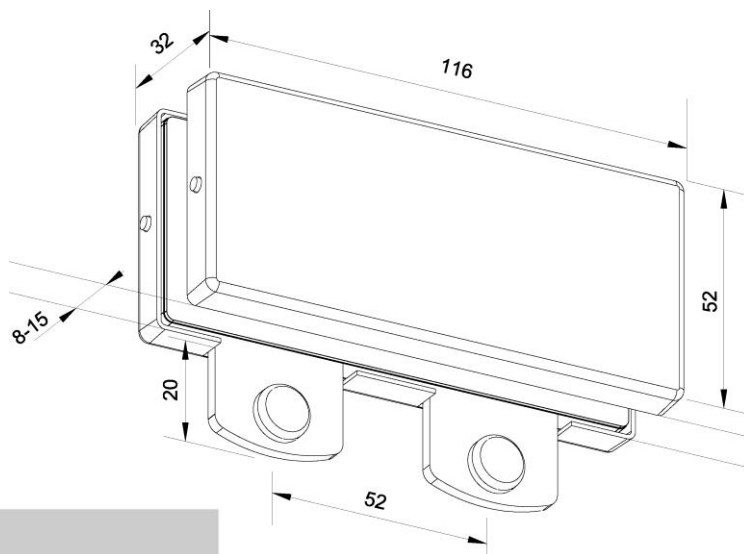


PD70 (135) – Angled Patch

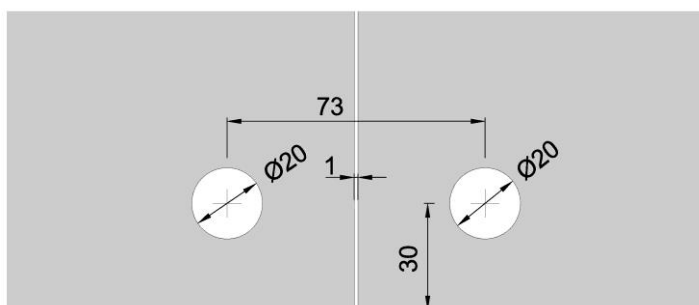
Glass Notch



PD70DS – Overpanel Patch



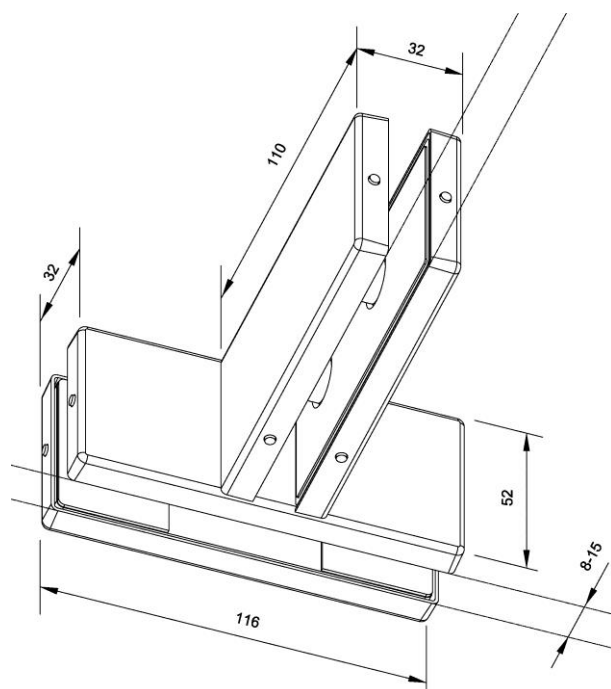
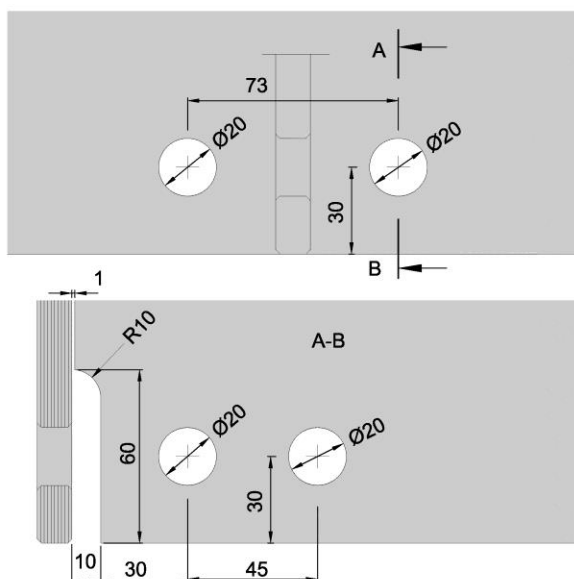
Glass Notch



PD71 – Overpanel Patch

Include Fin Fitting Attachments

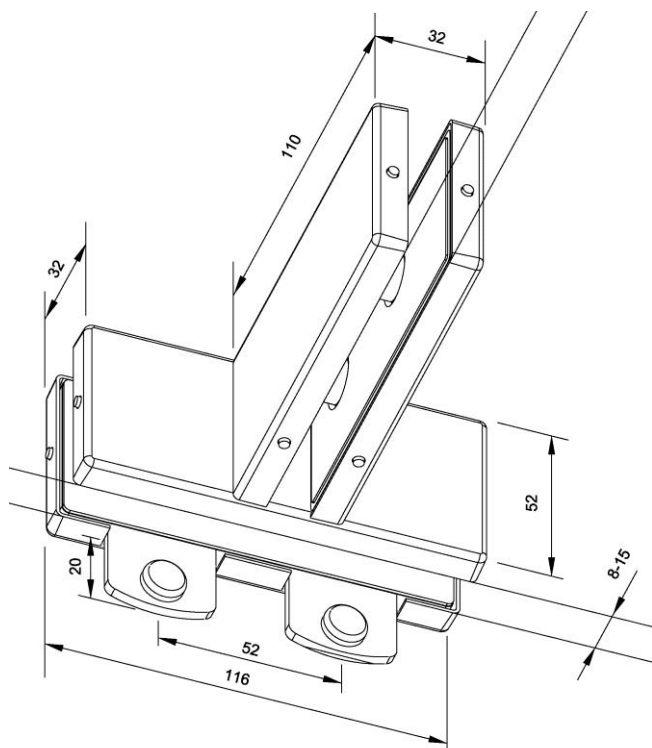
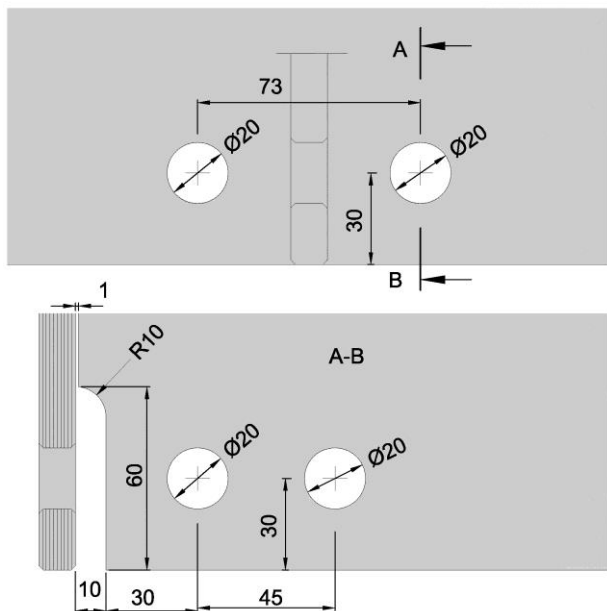
Glass Notch



PD71DS – Overpanel Patch

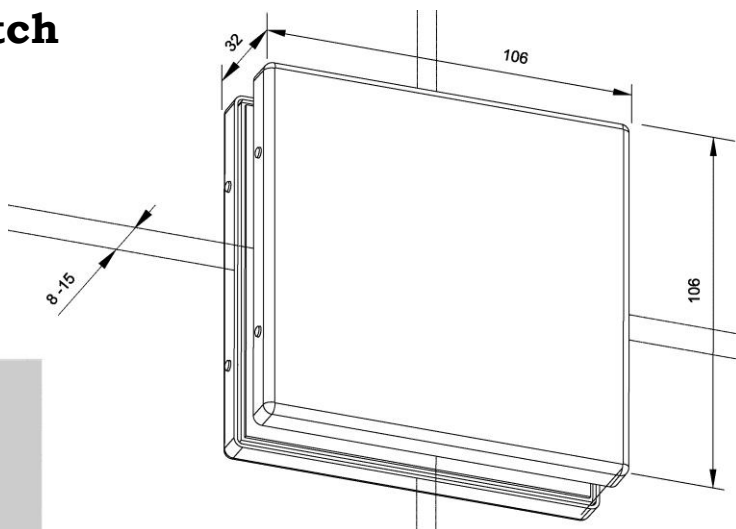
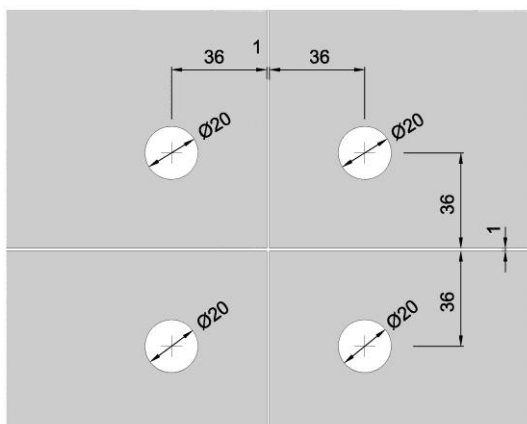
Include Fin Fitting Attachments & 2 x Stop Inserts

Glass Notch



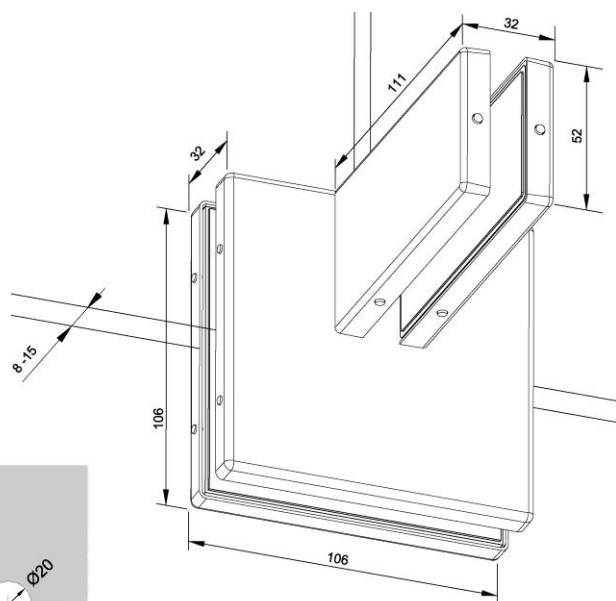
PD80 – Connector Patch

Glass Notch

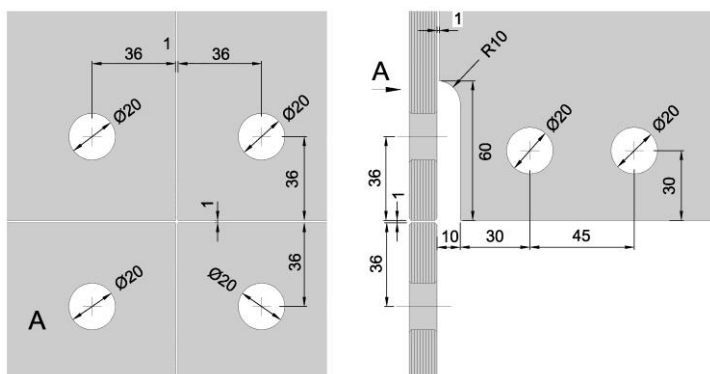


PD81 : Connector Patch

Include Fin Fitting Attachment



Glass Notch

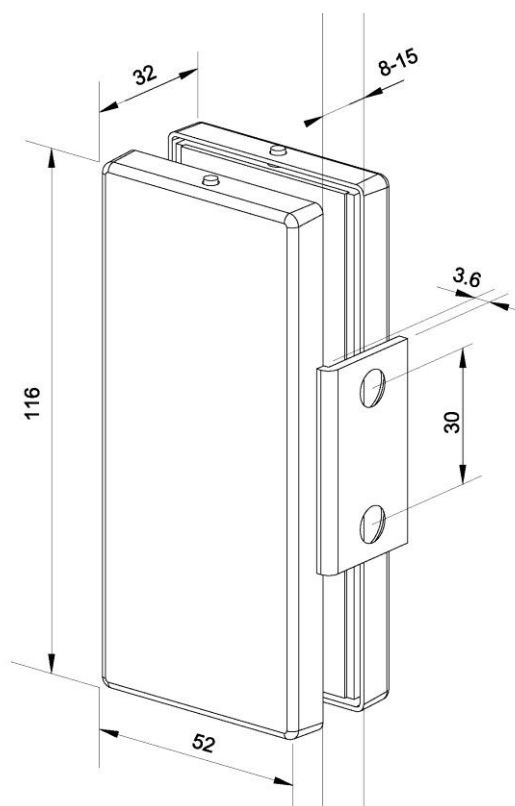
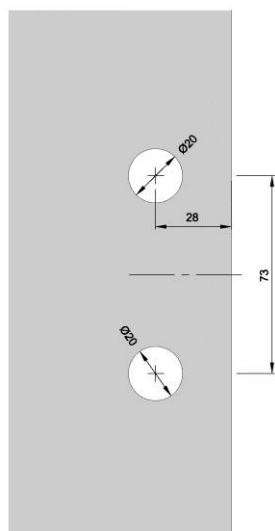


PD82 : Side Patch

Options:

With Backplate

Glass Notch

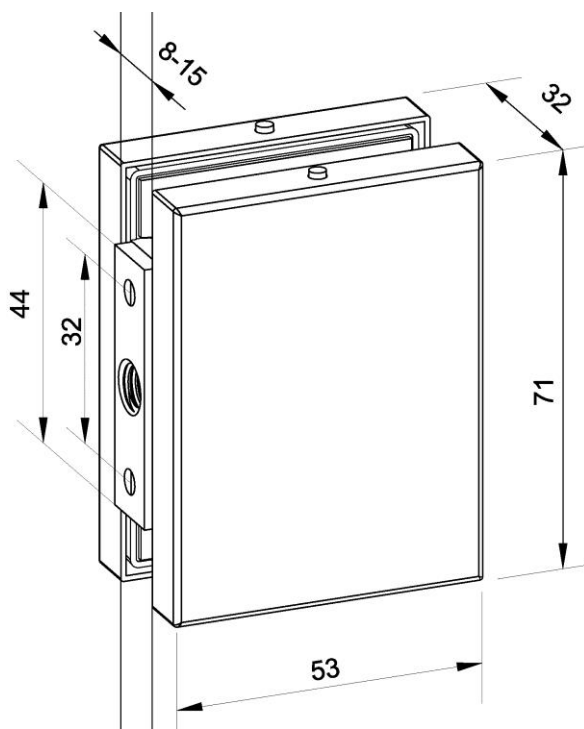
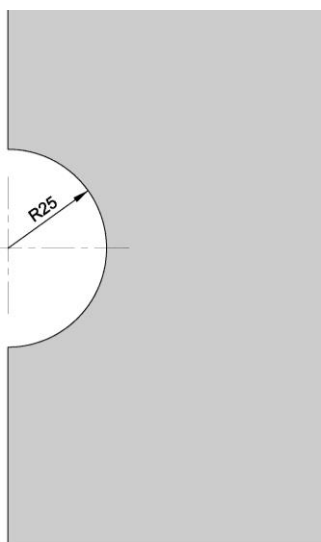


PD85 – Connector Patch

Options:

With M8 Threaded Rod & Expansion Bolt / Backplate

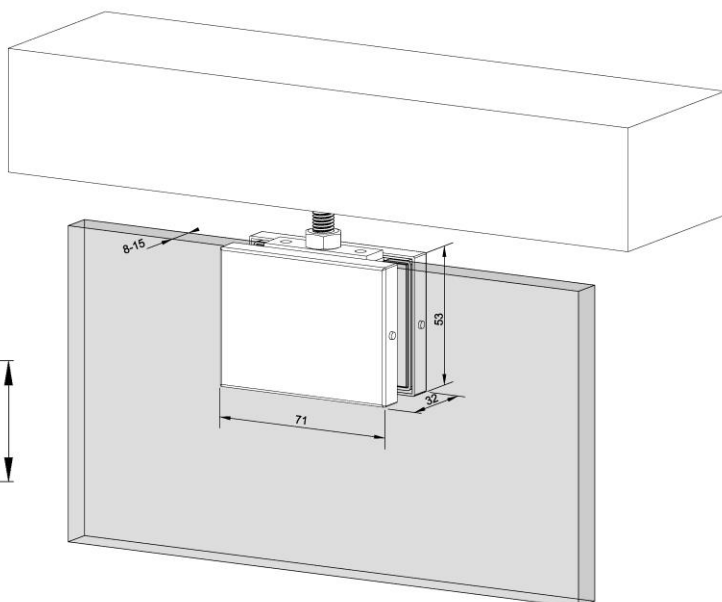
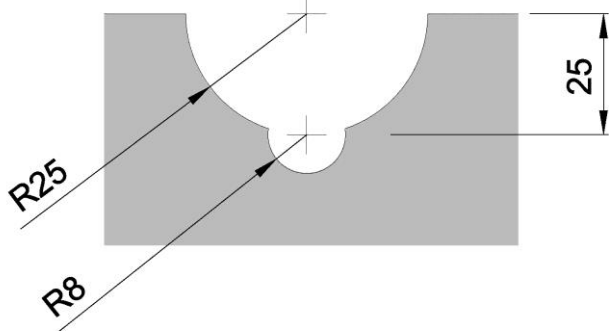
Glass Notch



PD86 – Hangar Patch

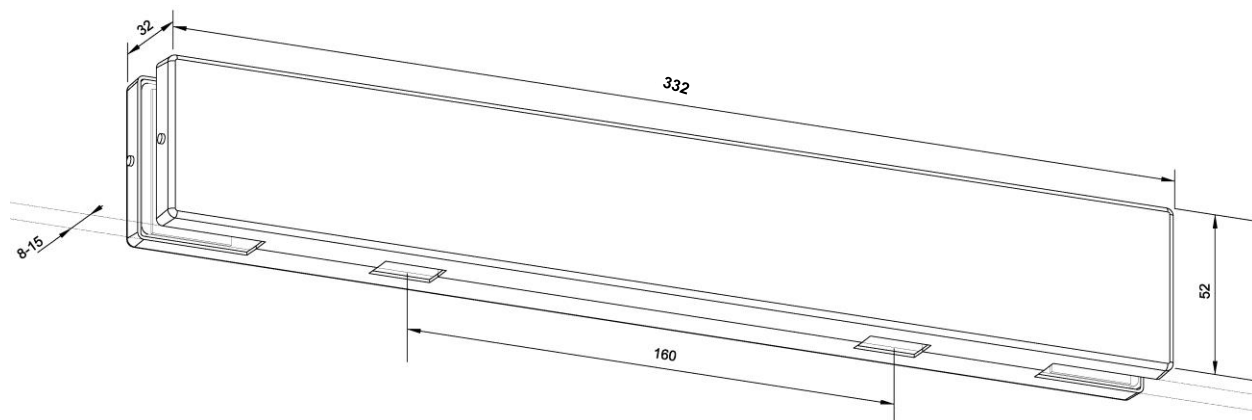
Note: PD85 With Difference Glass Notch

Glass Notch

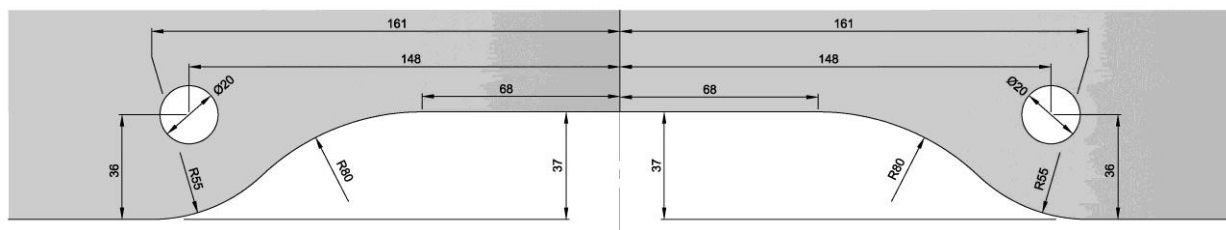


GK20 – Double Overpanel Strike Box

To Suit PL50 Corner Lock



Glass Notch

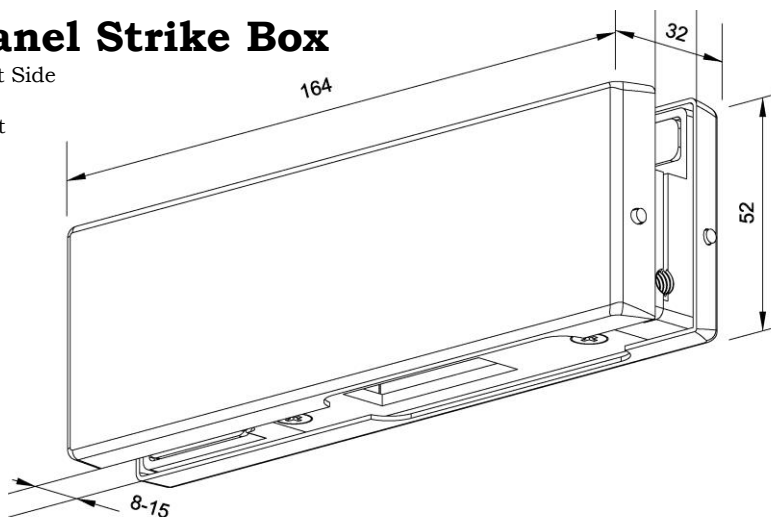


GK30 – Single Overpanel Strike Box

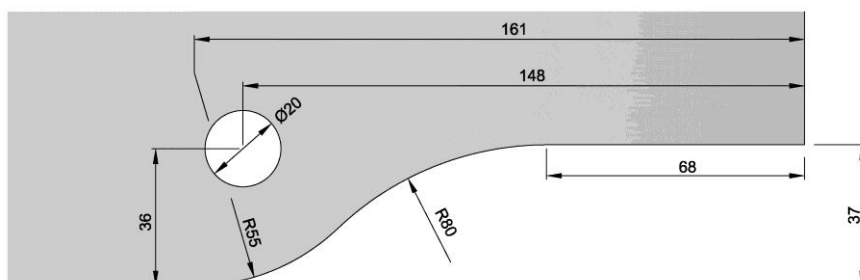
Include M8 Threaded Rod M8 Tapped Hole At Side

Options:

- Include M8 Threaded Rod & Expansion Bolt
- Include Backplate

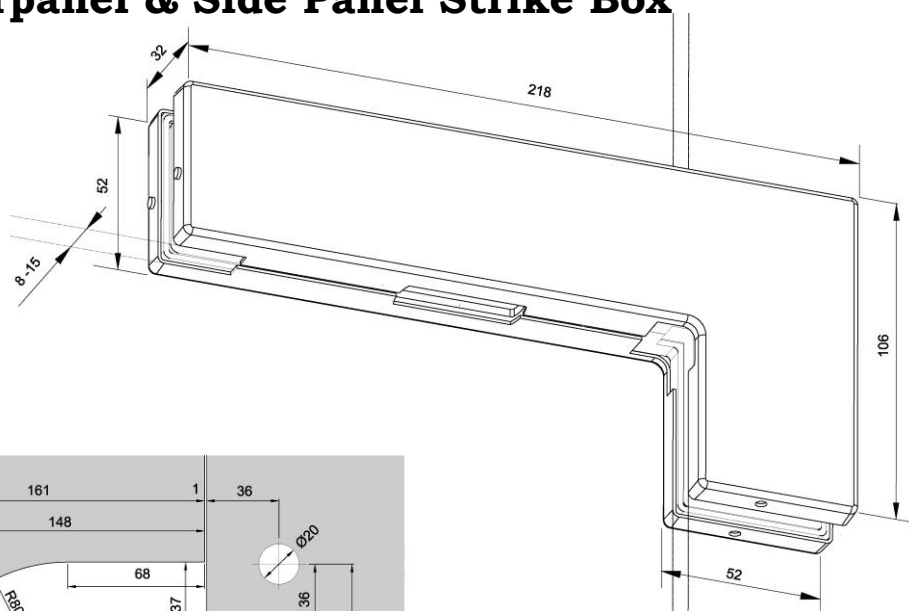


Glass Notch

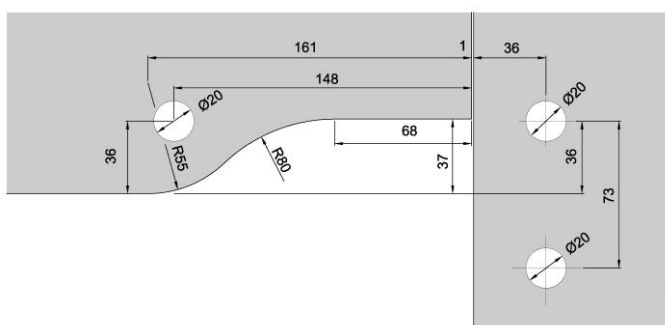


GK40 – Overpanel & Side Panel Strike Box

To Suit PL50 Corner Lock



Glass Notch



GK41 – Overpanel & Side Panel Strike Box

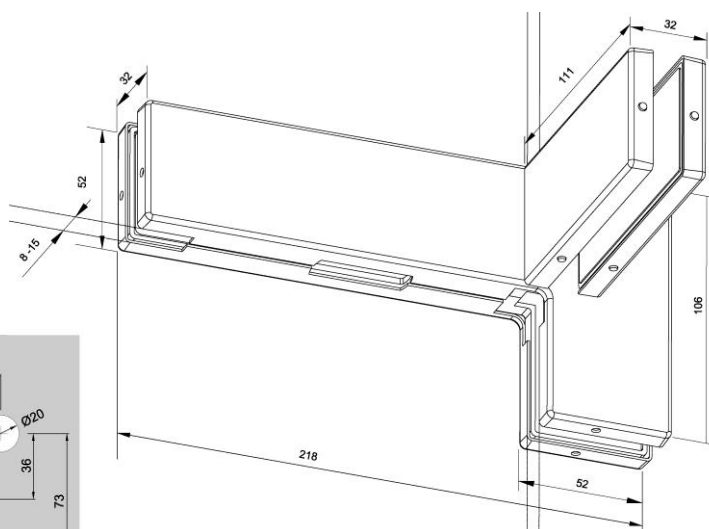
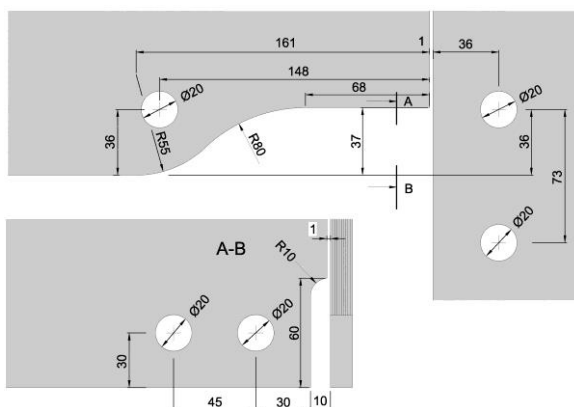
Include Fin Fitting Attachment

To suit PL50 Corner Lock

Options:

- Left Hand (LH) / Right Hand (RH)

Glass Notch

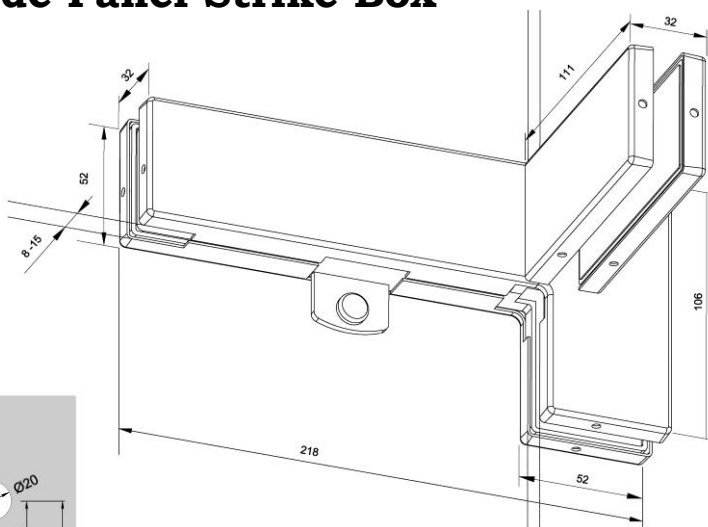


Note: Illustration shows GK41 (LH)
(Left or Right is determined by view from outside)

Include Fin Fitting Attachment & Stop Insert
To suit PL50 Corner Lock

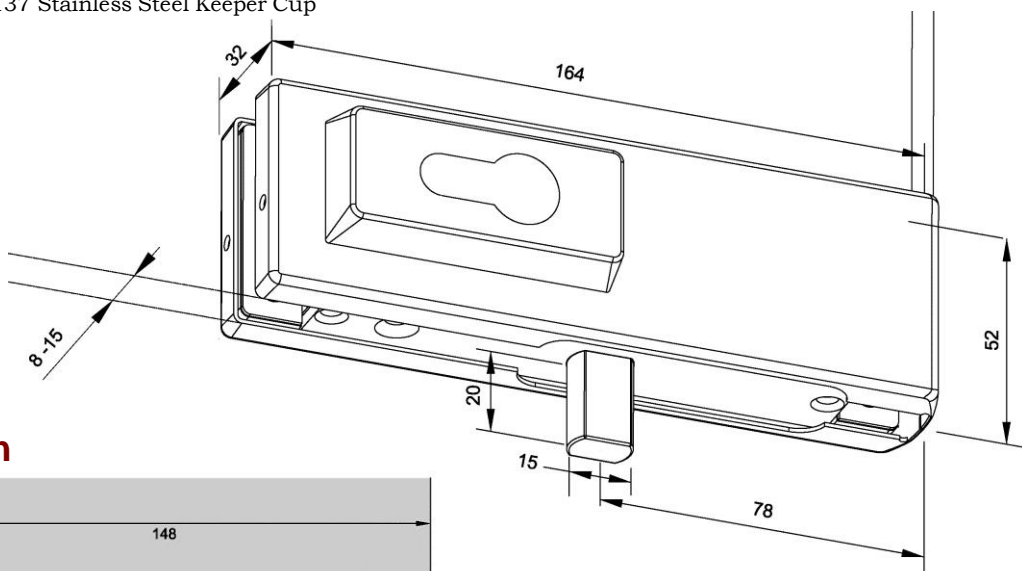
Options:

- Left Hand (LH) / Right Hand (RH)

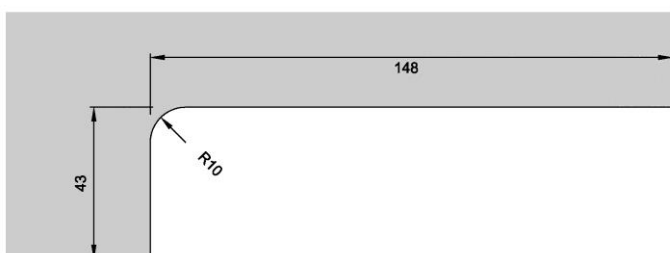


Note: Illustration shows GK41S (LH)
(Left or Right is determined by view from outside)

Include PM88 Euro-Profile Key Cylinder,
PL1 Patch Locker & 9137 Stainless Steel Keeper Cup



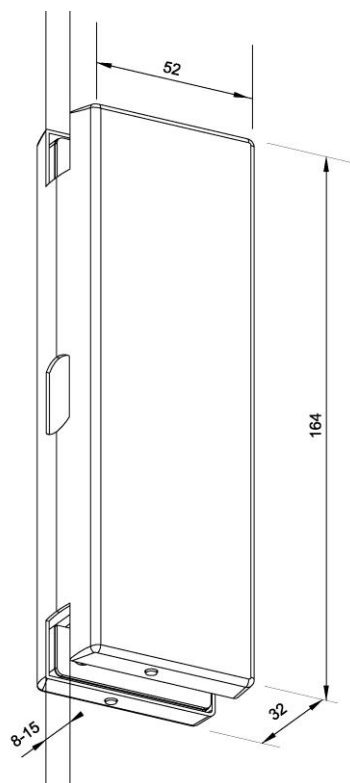
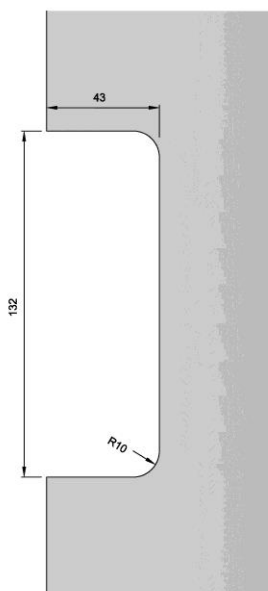
Glass Notch



GK50 – Centre Strike Box

To Suit US50 Centre Lock

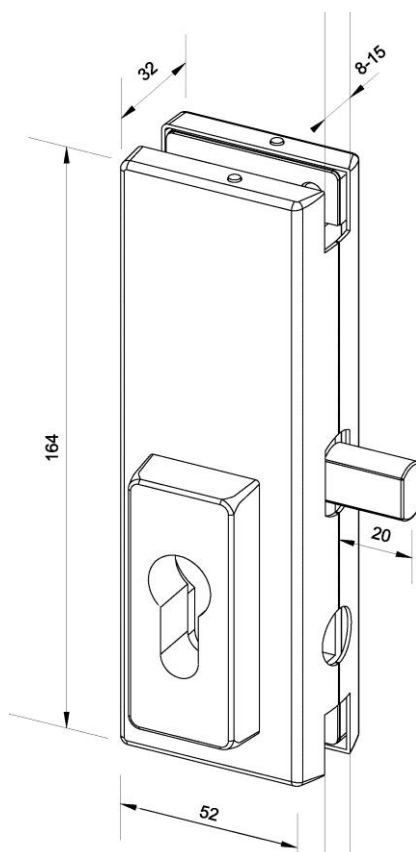
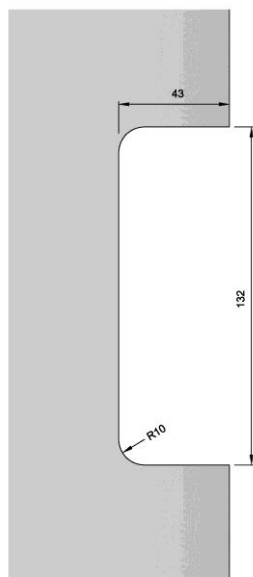
Glass Notch



US50 – Centre Lock

Include PM88 Euro-Profile Key Cylinder,
PL1 Patch Locker & 9137 Stainless Steel Keeper Cup
To suit GK50 Strike Box

Glass Notch

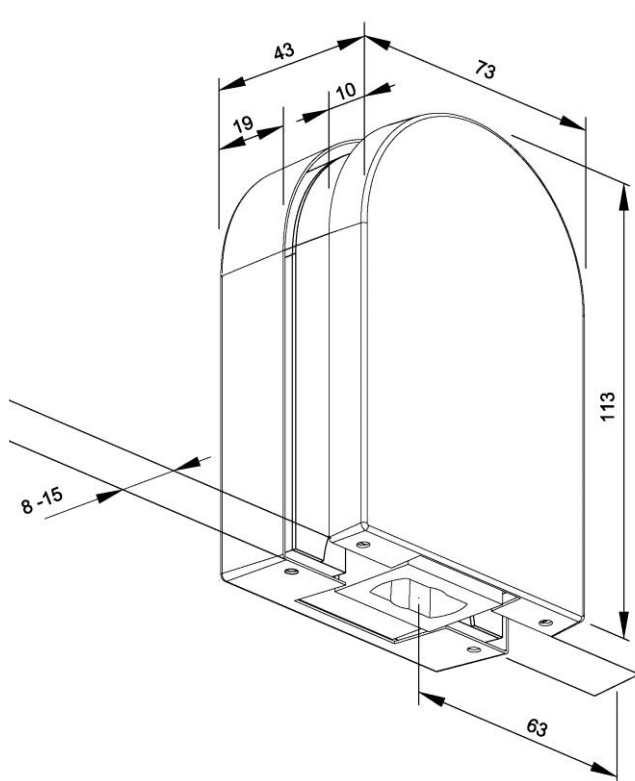
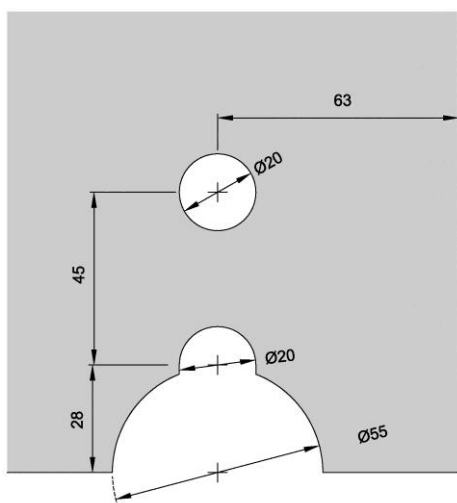


PM10 – Bottom Patch

Include insert

To suit TD800 Floor Spring

Glass Notch

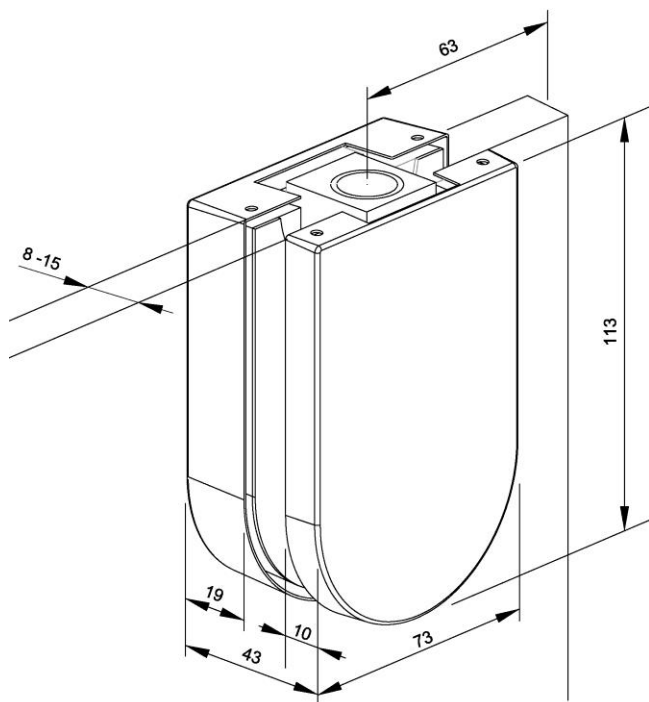
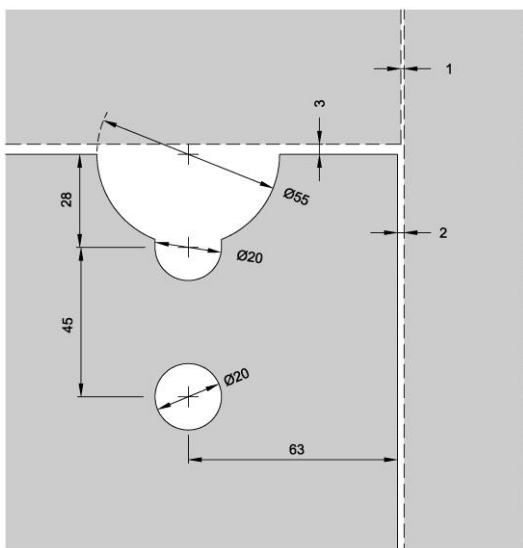


PM20 – Top Patch

Include Insert & Nylon Socket

To Suit PD24 Top Pivot

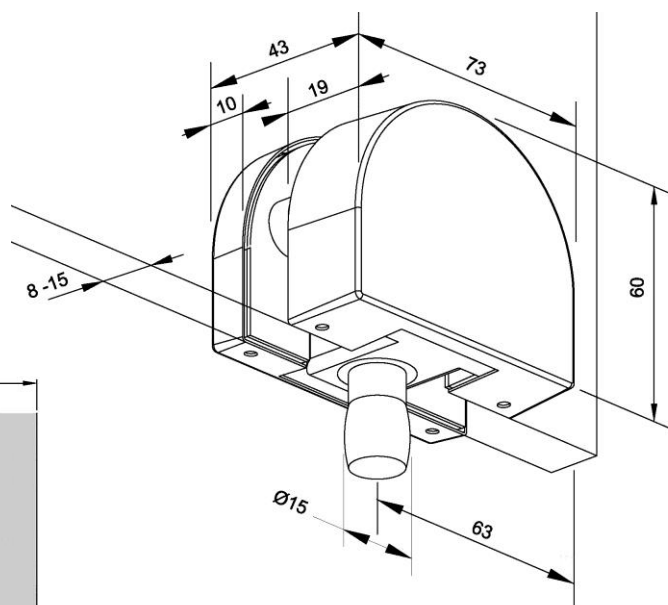
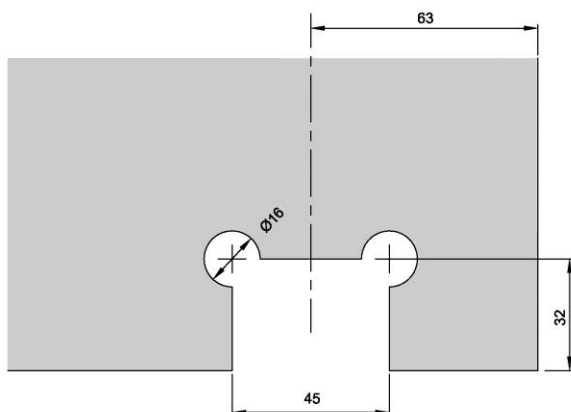
Glass Notch



PM30 – Overpanel Patch

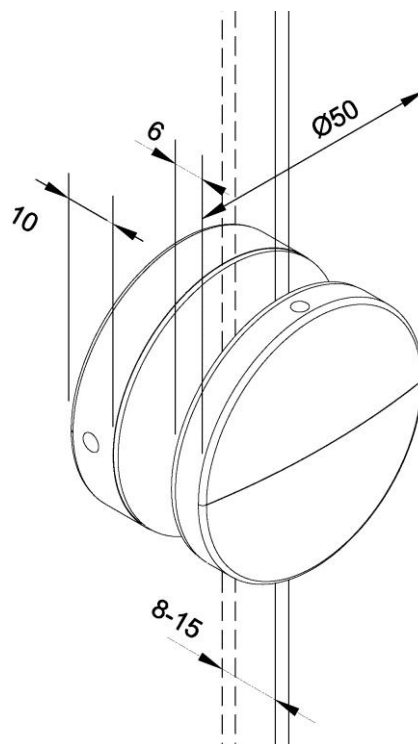
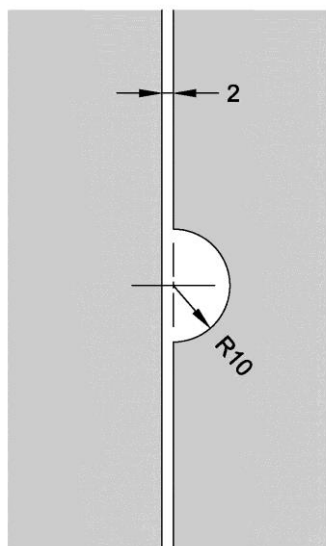
Include Dia. 15mm Pivot
To Suit PM20 Top Patch

Glass Notch



PM40 – Round Patch

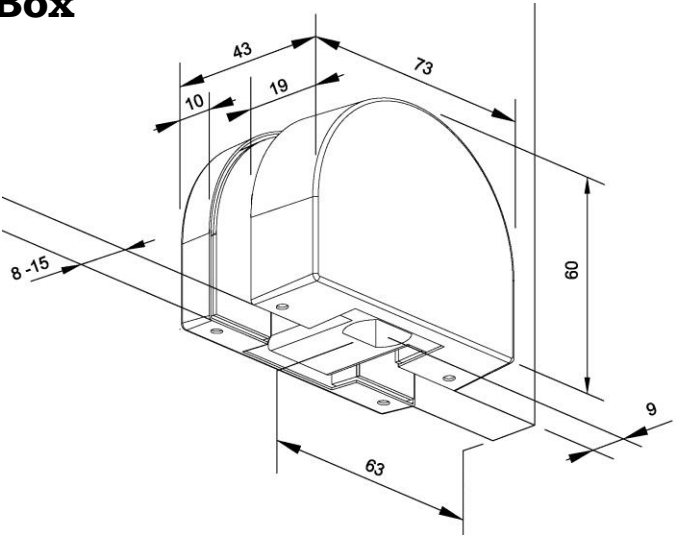
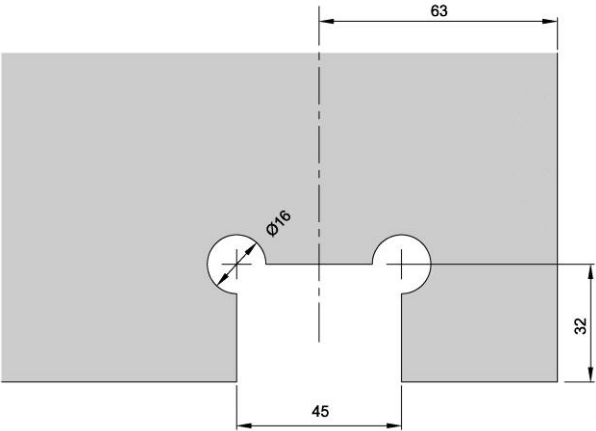
Glass Notch



GK34 – Overpanel Strike Box

To Suit PL34 Lock Patch

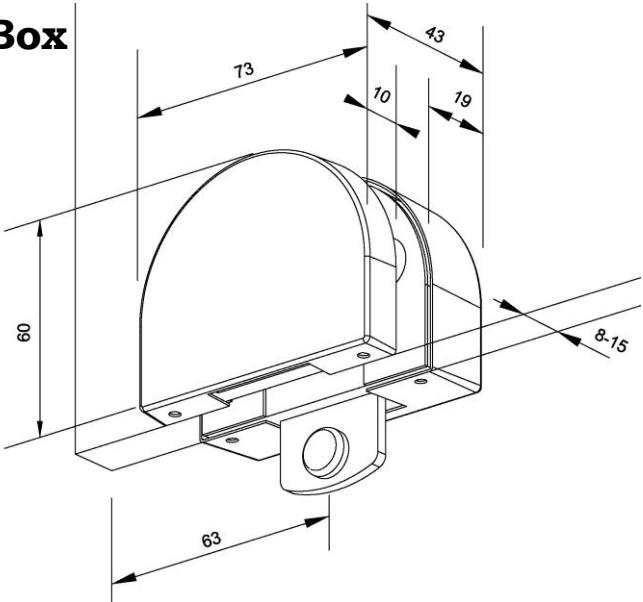
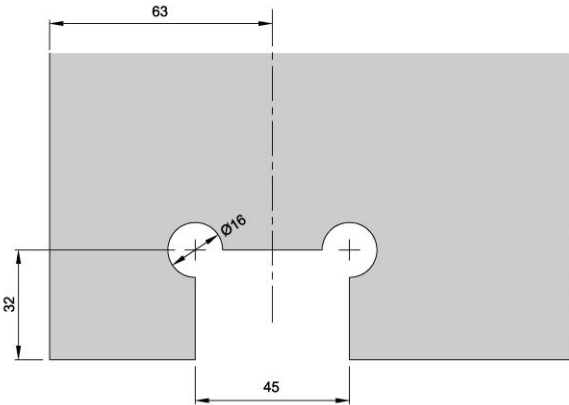
Glass Notch



GK34S – Overpanel Strike Box

Include Stop Insert
To Suit PL34 Lock Patch

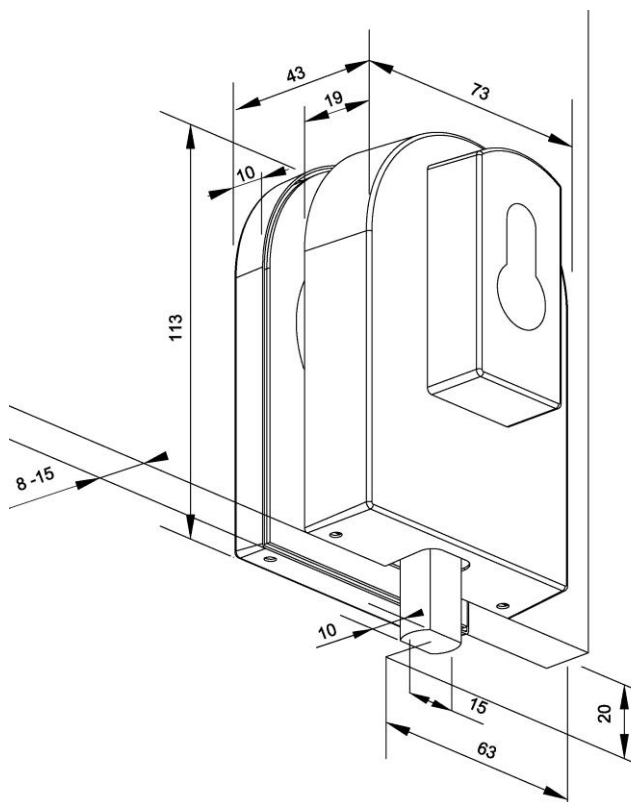
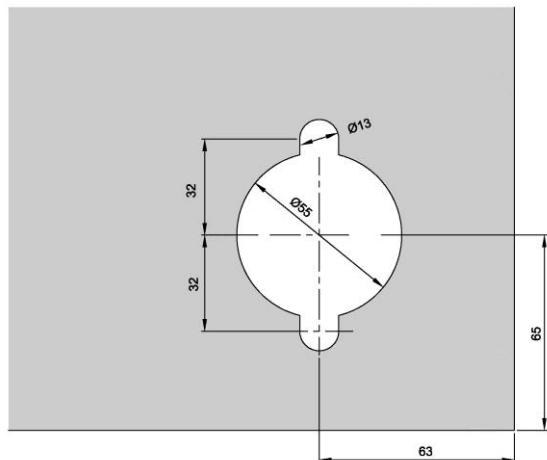
Glass Notch



PL34 – Lock Patch

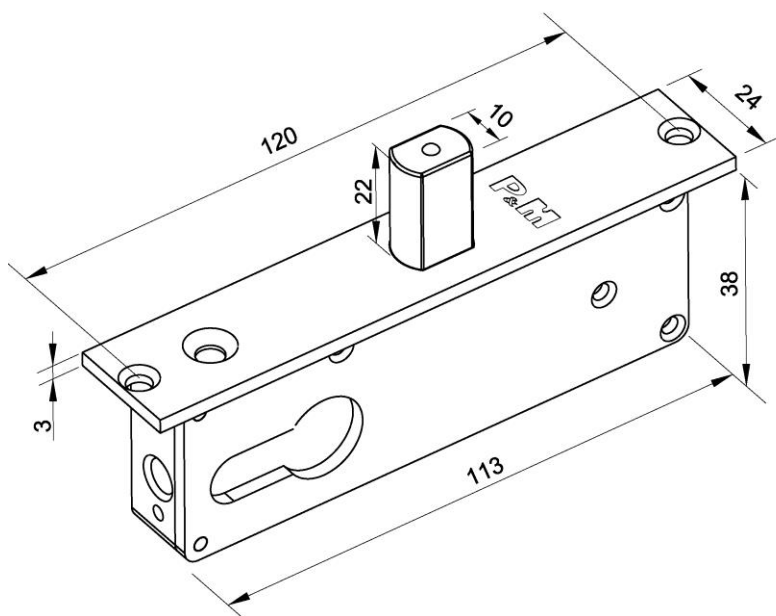
Include PM88 Euro-Profile Key Cylinder,
& 9137 Stainless Steel Keeper Cup
To suit GK34 Strike Box

Glass Notch



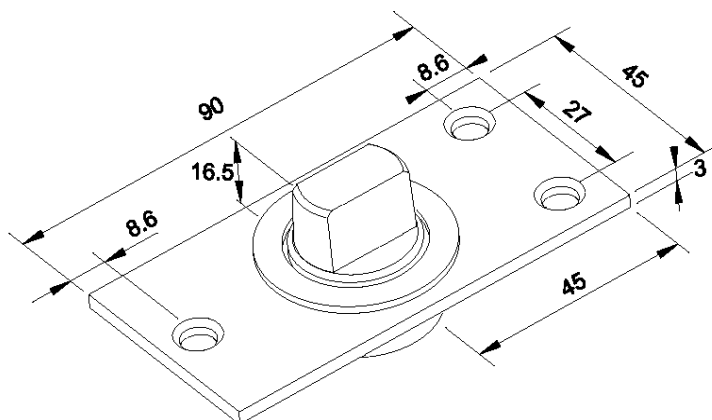
PL1 – Patch Locker

Internal component of PL50 & US50 Lock Patch



PD15 – Floor Pivot

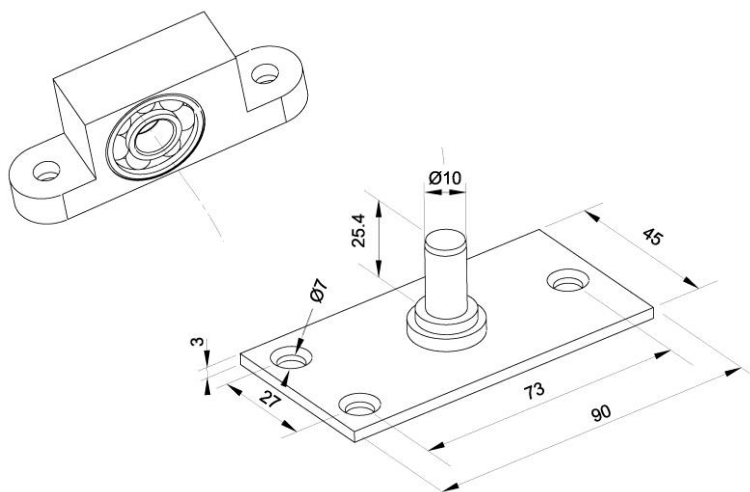
Max Load : 300kg



PD15P – (Ball Bearing) Insert & Floor Pivot

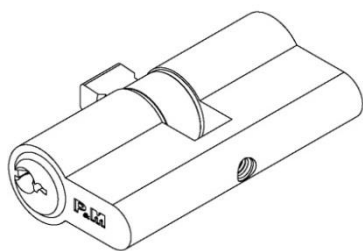
To Suit Bottom Patch

Max Load : 120kg



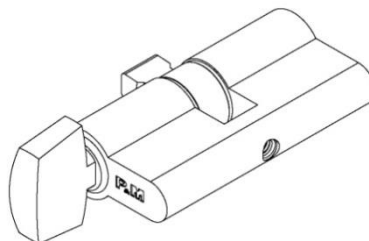
PM88 – Euro-Profile Key Cylinder

Cylinder length: 60mm



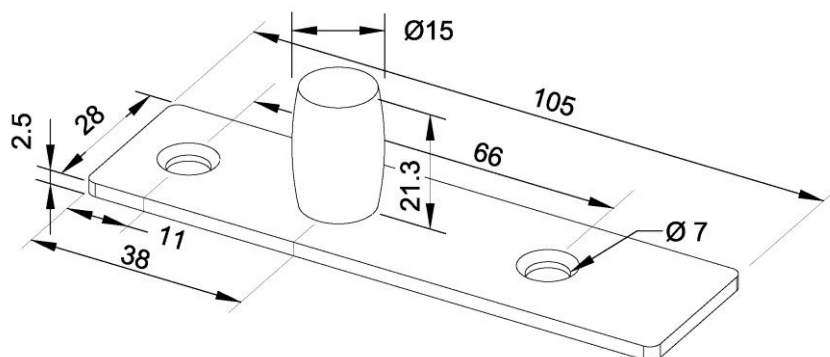
PM88T – Euro-Profile Key Cylinder

Cylinder length: 60mm



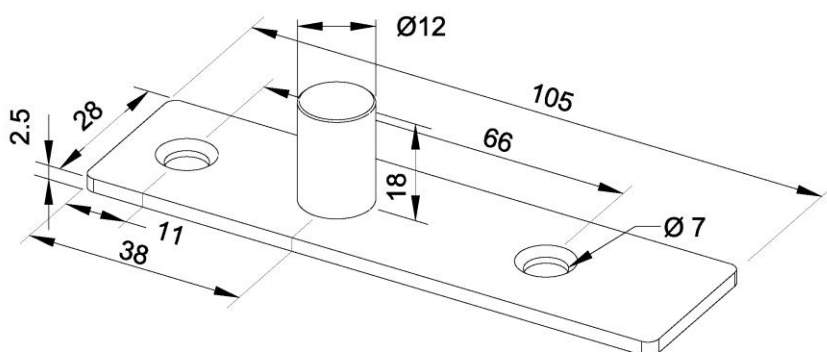
PD24 : Top Pivot

Dia. 15mm Pivot



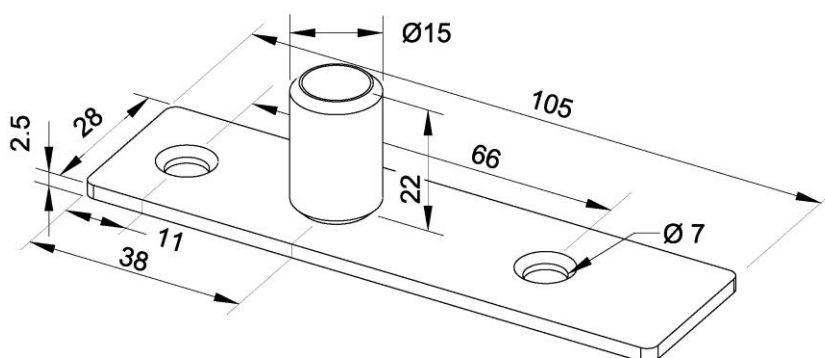
PD24NS : Top Pivot

Dia. 12mm Pivot



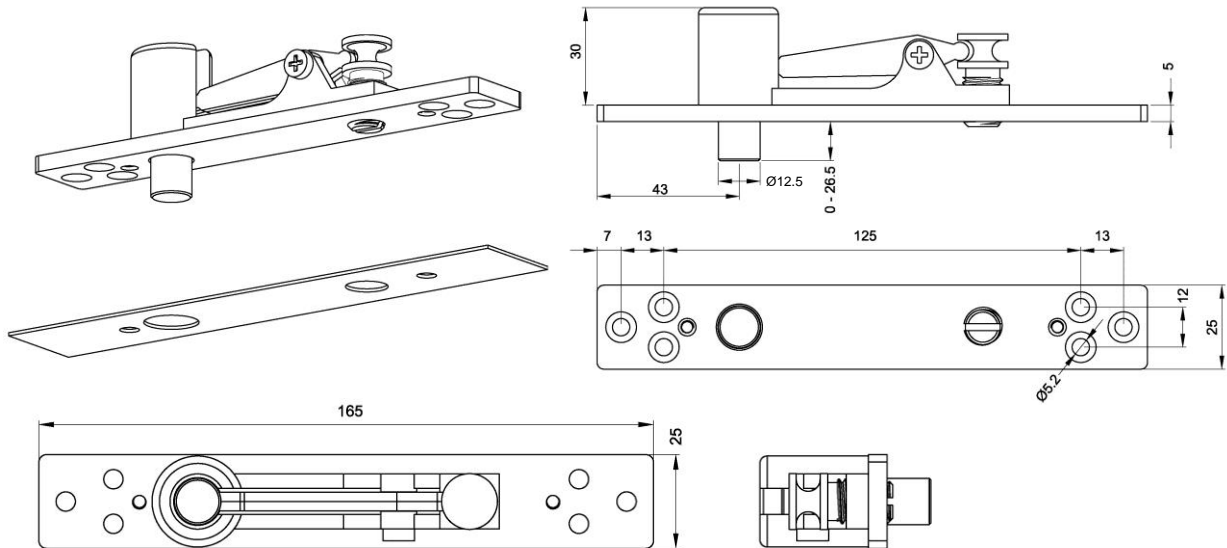
PD24R : Roller Pivot

Dia. 15mm Roller Pivot

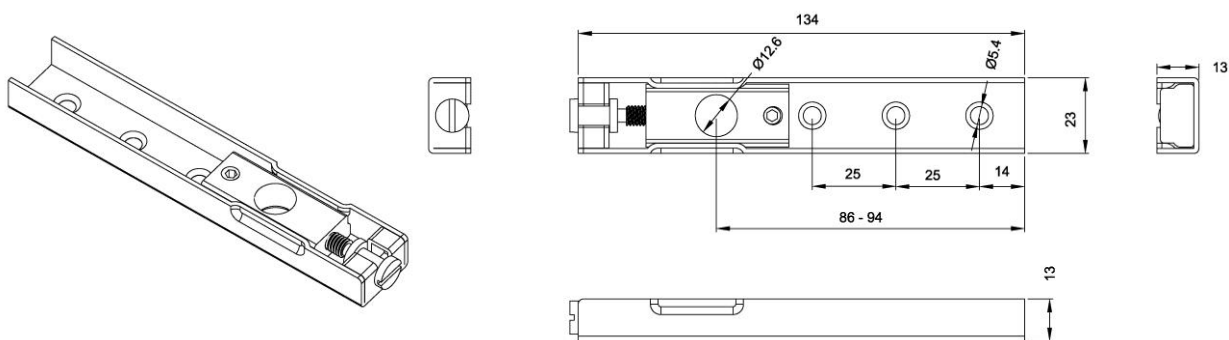


9116 : Walking Pivot

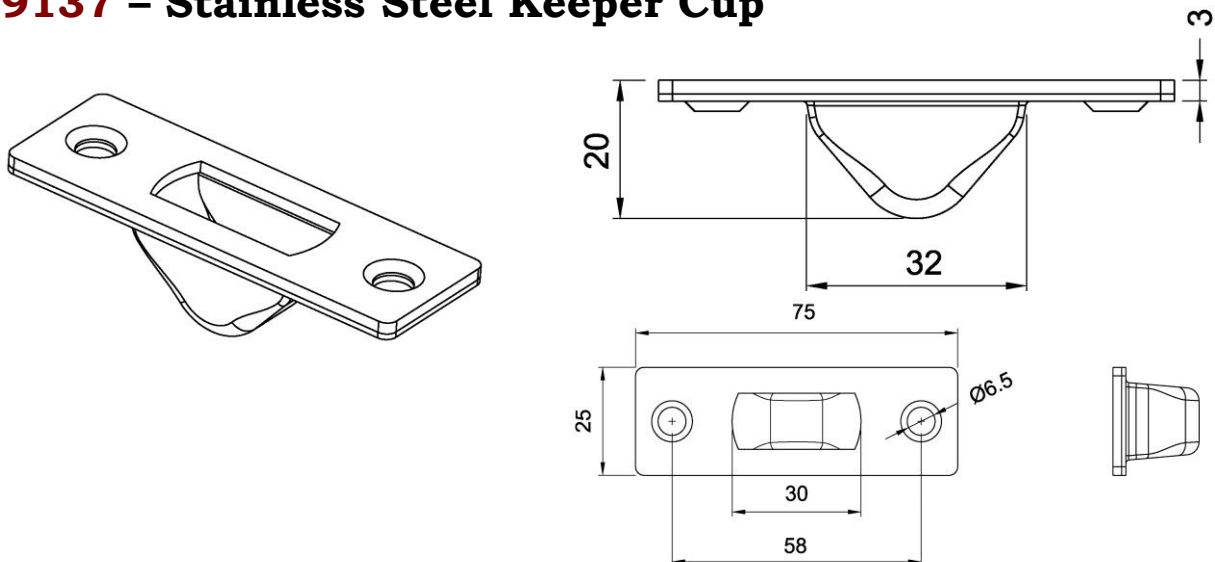
Include Stainless Steel Plate



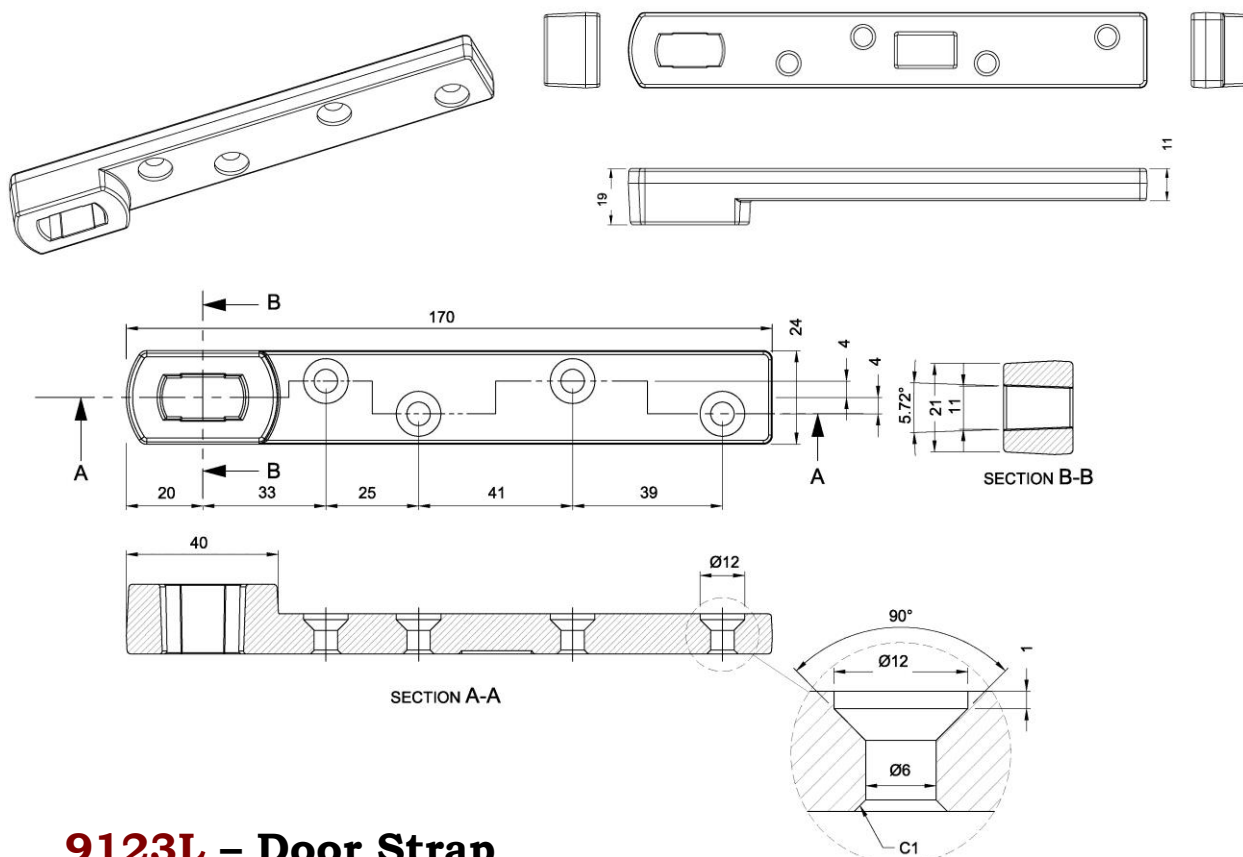
9117 : Adjustable Top Centre



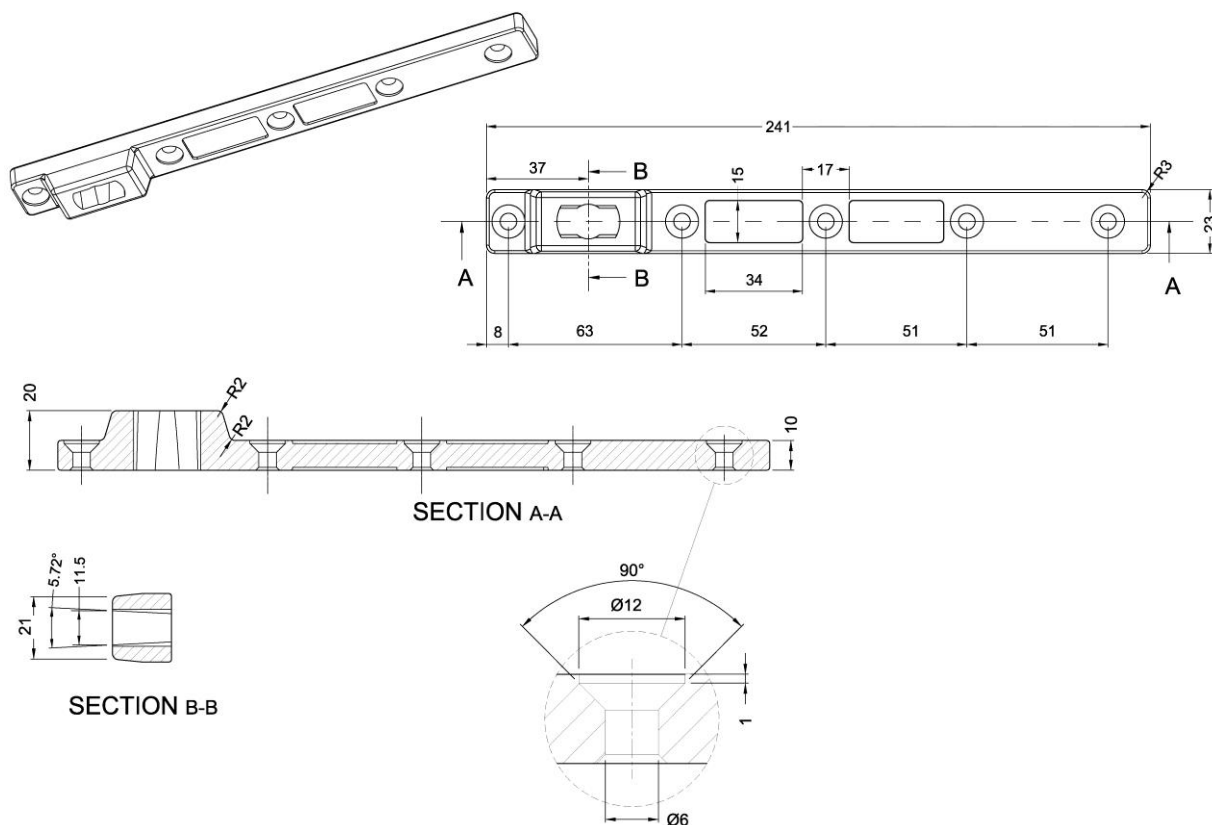
9137 – Stainless Steel Keeper Cup



9123 – Door Strap



9123L – Door Strap



Finishes

- Polished Stainless Steel
- Satin Stainless Steel
- Physical Vapour Deposit

Material

- Aluminium Casting (Body)
- SUS304 (Cover Plate)

Note

- Please specify glass thickness at time of order if other than 12mm thickness

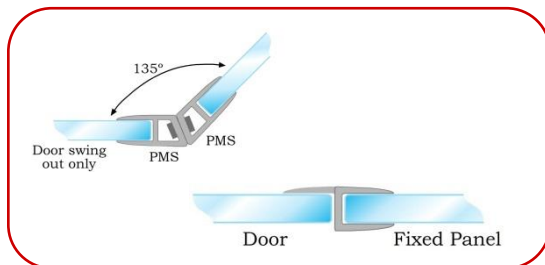
Related Products



Universal Series – Door Closers



Melosa Series – Door Handles



Deane Series – Vinyl Clip Seals