

# Friction and Holder Stays

## HARDWARE OPTIONS

### TECHNICAL SPECIFICATIONS



Friction, holder and telescopic door stays are designed to protect the door leaf and hinges from damage, by limiting the angle and force used to swing the door open. While they do not offer the same degree of protection or adjustment as a door closer, they are surface mounted and relatively easy to fit, and are also available to suit various door sizes.



### Z105 - Surface fixing friction door stay

The Z105 is a heavy pattern surface fixing friction door stay. It is used to restrict the door opening to a certain angle, helping to prevent damage if the door is affected by a heavy force such as wind.

Suitable for external use, the mild steel units are zinc plated before being silver sprayed. The Z105 is also available in barrelled finish stainless steel for prolonged use in corrosive environments.

Both versions have the same dimensions - 229mm from centre to centre of arm. To adjust the friction, tighten or loosen the locknut on the friction box using a spanner. 65mm spacing from the hinge axis will give an opening angle of approximately 90°. Decrease this dimension for greater angles (e.g. 95-100°) or increase the dimension for restricting the door to approximately 80-85°.

If more or less friction is required, adjust the hexagonal bolt accordingly. It is important that the friction is checked and adjusted regularly. This device is designed to control the speed of opening and closing: It is not a door stop or holder. To prevent damage to the door or adjacent cladding, a supplementary door stop should be fitted, particularly if the building is in an exposed position.

Since it is a surface fixing product, this door stay is suitable for use on both timber and steel doors.

Both Z105-Z and Z105ST have been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware – Corrosion Resistance.



### Z109 Heavy Duty Holder Stay

Heavy duty door holder, spring recoil in channel. To suit door widths 600mm – 1300mm. Fixing pack and spring included. Finish – Galvanised Mild Steel.

With a spring recoil feature in the channel, the stay both cushions and acts as a shock absorber as the door reaches the full extent of its travel. This helps to protect the door and frame as well as reducing wear on the hinges. There is a hold feature that holds the door fully open at 90°.

The swinging pawl automatically locks, keeping the door open, pushing the door even further allows the pawl to disengage so that the door can be closed.

When mounted closer to the hinge axis the stay allows the door to open beyond 90°, if mounted further away the door will open less than 90°.

To protect against corrosion, all parts are manufactured from mild steel and galvanised. Maximum door weight 125kg.

The stays are universal, to suit both left and right hand doors and is available in three sizes to suit different door widths. The smallest stay is also designed to work on standard width doors fitted with panic bolts. The shorter channel does not interfere with the panic bolt's vertical rods.

- Z109S - short pattern to suit door widths 600mm – 800mm
- Z109M - standard pattern to suit doors 800mm – 1100mm wide
- Z109L - Long pattern to suit doors 1100mm – 1300mm.



### Z107 Telescopic Friction Stay

Stainless steel telescopic door stay to suit inward and outward opening doors. Not for windy environments.

All components, including the spring, are made from Grade 304 stainless steel except for mazak fixing brackets and knurled sleeve which are supplied in grey finish only. The friction is adjusted by rotating the knurled sleeve.

- Z107S - for windows and very narrow doors
- Z107M - For door widths from 500 to 700mm
- Z107L - Long pattern to suit doors 700 – 910mm