

## MANUAL & ELECTRIC OPERATED STEEL ROLLER SHUTTERS

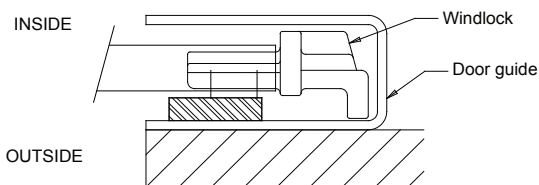
### Curtain

The standard curtain slat is G2 Z275 galvabond steel, with galvanising to A.S. 1397 Material Code (equiv. to 290 grams zinc/m<sup>2</sup>).

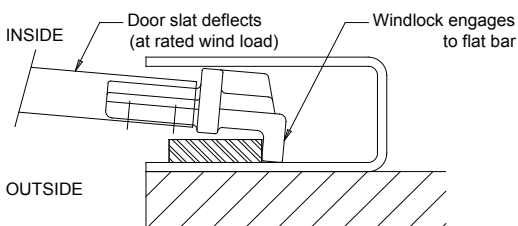
The curtain can be supplied in a powdercoat finish in colours only from the Dulux Duralloy or Interpon standard polyester powdercoat range. If a Dulux Duratec powdercoat colour is specified it should be noted that the warranties (10 years) are only applicable when applied to fixed aluminium surfaces. It also attracts additional pricing as Dulux often have minimum 250kg purchases applicable, which grossly exceeds our typical usage.

Nylon end clips are fitted every alternate slat to reduce metal to metal contact; ensuring smooth, quiet operation.

Optional cast malleable steel windlock clips are available on every second or fourth slat for security or high wind regions, including for cyclonic Regions C & D.



a: WINDLOCK AT NORMAL POSITION



b: WINDLOCK AT RATED WINDLOAD

**Figure 1 WINDLOCK CLIPS**

### Bottom rails

The standard bottom rail is an aluminium T - section extrusion. Alternatively, the following options can be supplied:

- Steel 80 x 40 Galvabond box section;
- Steel 50 x 50 x 4 Duragal angle

All bottom rails can be specified to be fitted with weather seals.

Tapered bottom panels can also be supplied to suit a sloping floor surface.

### Drum

The drum is manufactured from galvanised or black seamless steel pipe attached to end caps. Helical coil oil tempered balance springs are fitted to drum shaft inside drum pipe with drum revolving on steel bearings. Finish is primer over all areas not galvanised.

The drum can be supplied in a hot dip galvanised finish as an option.

### Wall Brackets

The brackets are manufactured from mild steel and supplied in a primed finish.

The brackets can be supplied in a hot dip galvanised finish as an option.

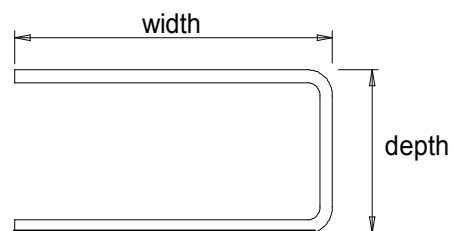
The brackets can only be installed to a structural fixing surface such as concrete, core filled masonry and structural steel columns. Metal stud partitions and Hebel blockwork are not suitable surfaces.

### Guides

The guides are typically a deep "U" section from heavy gauge G2 (or higher) Z275 Galvabond.

Standard guide sizes are:

- 60mm Guides: 60mm width x 37mm depth
- 100mm Guides: 100mm width x 38mm depth
- 100mm Windlock Guides: 103mm width x 47mm depth (rolled or welded windlock styles)



**Figure 2 GUIDE**

### Mullions

Removable centre mullions or sliding mullions are available on request for applications where shutter openings can not be covered by one shutter. Enquiries should be directed to your nearest Mirage branch in each instance.