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## OZ Roll® Stormshield Series

Using the remarkable characteristics of the AR400 HDF slat profile as detailed in Information Bulletin 035, OZ Roll has been able to develop the *Stormshield Series*. This shutter has been specifically designed for increased strength and security for commercial applications through to domestic, high wind or high-risk applications.

This design incorporated the benefits of the High Density Foam with the AR400 HDF product to secure the specially designed restrained slat inserts. These inserts are designed

to integrate with the guide section and actually form a positive and structural connection with the guide.

As you can see in this image the slat insert is restrained into the guide profile. This restraining design considerably increases the force needed to disengage the slat from the guide. The slat may deflect slightly, as is common, however once it reaches a certain point the inserts will act on two flanges shown in the guide and this will reduce the deflection.

The Guide has been designed to handle the added forces that the slat will place on it. The wall thickness has been increased and overall engagement has been increased to allow for the restraining insert.

Critical to this concept is the ability to structurally fix the restrained insert into the slat profile and this is possible by using the AR400 HDF slat. Each insert is securely fastened using two 25mm long screws pilot drilled and fixed directly into the High Density Foam of the HDF slat. The inserts are fitted to every alternate slat in the curtain and whilst this may appear to be a time consuming exercise, the results are quite remarkable.



### Technical Details.

This shutter is available in both SQ and RD head box systems and can be operated by most standard Roller Shutter operating systems. Please refer to Information Bulletin 035 for the weight and roll size characteristics.

Please note that the Super Shutter Series has been designed to produce a markedly stronger version of a standard shutter within the size range of a standard shutter. The maximum single span that we would advise is 3.6 metres. Should you have a requirement for larger spans we would recommend the Ultrashield (AR551) product, which is detailed in Information Bulletin Ozroll Ultrashield Shutter Series (# 034)

### The Guide Section.

You may have noticed on the image above the guide has a heavy-duty section that has been specifically designed for this shutter. The guide measures 69mm x 25mm x 3mm, due to the deeper engagement and added wall thickness.

It is very important to notice the orientation of the guide as the outside wall thickness is actually thicker than the backside. This is to compensate for the offset design of the restrained insert and the fact that in most cases the forces are in the outward direction. We have designed in a small 'v' groove on the face of the guide that should always be facing the outside of the shutter. This 'v' groove is also very handy as a drilling guide for on wall installations.

