

STORMSHIELD Slat Profile (formerly AR400 HDF)



OZ Roll has been producing the AR400 slat profile with high quality and continuous regularity since 1996. This well accepted and robust slat profile has proved the test of time and is now offering a solid platform for the development of the HDF profile. HDF is the abbreviation for “High Density Foam” which offers some remarkable advantages for the roller shutter curtain when used in the correct application.

For a visual identification aid we have slightly dyed the foam, which makes for easy identification. The HDF is injected into the slat profile during the roll-forming process under very controlled conditions.

Due to the high volume level the foam is injected, we actually reduce the speed of roll-forming to about a quarter of the speed that we run the standard profile.

The two part polyurathane chemicals are mixed together at the very last moment before being injected into the open slat section. Once the chemical is mixed a chemical reaction begins instantaneously and the foam begins to transform from a liquid to a solid in approximately 14 seconds, reaching full rise capacity in approximately 55 seconds. The chemical reaction generates heat and in some cases the slat profile will be over 90°C at the end of the roll-former.

Technical Specifications.

Curtain Weight: 6.0 kg/m²

Size Range Width: 300mm to 3600mm (single spans)

Roll Diameters: Please use the AR400 Head Box Selection Table detailed in Information Bulletin 032

	Standard AR400	AR400 HDF
Free Rise Density:	46.2 kg/m ³	238.0 kg/m ³
Finished Contained Density:	84.2 kg/m ³	587.9 kg/m ³

For specific details on the actual slat profile please refer to Information Bulletin 003, as all other details are the same as the AR400 slat profile.

Slat Colours Available:

Part Number	Description.
10.115.101	AR 400 HDF Perforated Slat - White
10.115.108	AR 400 HDF Perforated Slat - Cream
10.115.111	AR 400 HDF Perforated Slat - Sand
10.115.115	AR 400 HDF Perforated Slat – Black

It is this remarkable increase in density that offers the HDF product such remarkable characteristics. The slat inserts are actually screwed into the foam rather than being stapled as per the standard slats. The ability to screw into the foam offers the extremely remarkable strength advantage of the all new Super Shutter series as detailed in Information Bulletin 036.

