

U-SPEC PIPE SECTION MAT

U-Spec Pipe Section Mat is a high-density slab which has been machine-grooved in one face to enable close fitting application to large diameter curved surfaces. The distance between the grooves is accurately calculated to suit specific diameters and ensure consistent product curvature compatible with the surface of the intended application. U-Spec Pipe Section Mat is supplied in segments, and the number of segments required to complete each circumference varies, and is dependent upon both the diameter of the intended surface and on product thickness.

The product is available with a choice of facings, including Bright Class O Reinforced Foil and, for external use, pre-covered with external-grade foils and other coverings.

Application - Thermal and acoustic insulation for medium to large-bore pipework, ductwork, chimney stacks, tanks and vessels. Depending upon the choice of facing, the product is suitable for both internal and external use.

Benefits of U-Spec Pipe Section Mat

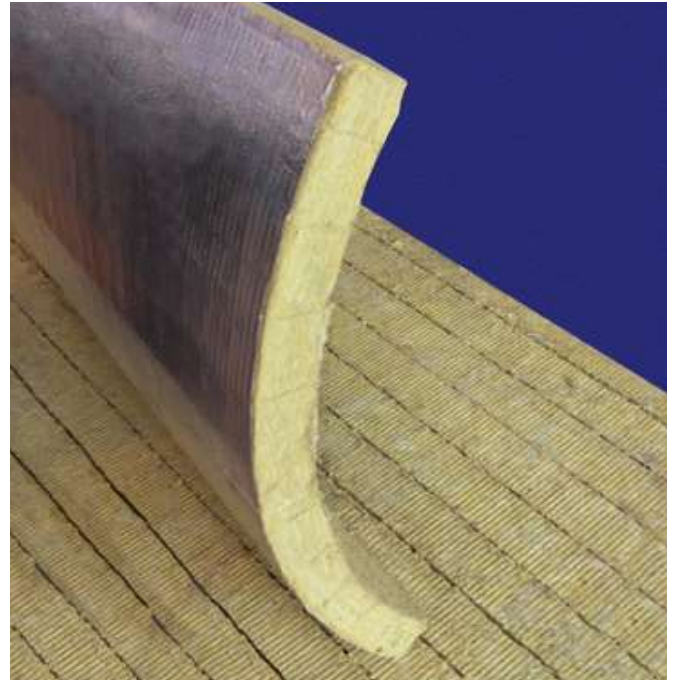
- **No minimum order quantities**
- **Short lead time**
- **Wider range of sizes - available for pipes and vessels up to 5 metre diameter, and in thicknesses up to 150mm**
- **Wide range of alternative facings – including black and white foil**

Factory-applied Facings

Bright Class O Aluminium Foil as standard.

External-grade foil weatherproof covering - U-Spec Pipe Section Mat pre-covered with multi-layer laminated aluminium foil with zero permeability, reduces installation times and thus application costs.

Other facings and colours – other coverings and facings are available to order, including a dense polymeric membrane for applications where high levels of acoustic insulation are required.



Dimensions

Outside Diameter of Pipe	Insulation thickness range	Length – along the pipe	Density
Up to 5m	40mm – 150mm	Up to 1.8m	80 kg/m ³ – 200 kg/m ³ but 140 kg/m ³ as standard

Operating Temperature - The base rock wool insulation on U-Spec Pipe Section Mat can be used up to continuous operating temperatures of 700°C at 140kg/m³. To maintain the integrity of the factory-applied covering the surface temperature of the product should not exceed 80°C.

Thermal Conductivity

Based on rock wool density of 140 kg/m³

Mean Temperature °C	Lambda, λ W/m.K
50	0.040
100	0.044
150	0.050
200	0.057
250	0.064
300	0.088
350	0.104

Packaging

U-Spec Pipe Section Mat is supplied flat-packed in polythene packs, which are designed for short-term protection only. For long-term protection on-site, the product should be stored indoors, or under cover and off the ground. U-Spec Pipe Section mat should not be left permanently exposed to the elements before installation.