

## Composite Barrier Curtains

An industrial grade curtain that can be used as a barrier or sound absorber to isolate various noise sources, such as plant and machinery. The curtains can also be arranged to divide spaces or installed as a perimeter treatment within buildings to help improve sound transmission loss.

The construction comprises a central polymeric barrier mat core, sandwiched between two layers of glass fibre, faced with grey or black acoustically transparent glass cloth. For applications that do not require sound transmission loss and are to be used for sound absorption only, the barrier mat core can be omitted. Alternative fabric colours/finishes may be available subject to application details and minimum order quantities.

Sound Reduction Index (SRI):

| Frequency (Hz)             | 125 | 250 | 500 | 1k | 2k | 4k |
|----------------------------|-----|-----|-----|----|----|----|
| 5kg Comp. Barrier Curtain  | 12  | 12  | 21  | 27 | 30 | 34 |
| 10kg Comp. Barrier Curtain | 20  | 20  | 28  | 32 | 36 | 40 |

Sound Absorption Coefficients :

| Frequency (Hz)            | 125  | 250 | 500  | 1k   | 2k  | 4k   |
|---------------------------|------|-----|------|------|-----|------|
| Composite Barrier Curtain | 0.15 | 0.6 | 0.83 | 0.86 | 0.5 | 0.26 |

The glass fibre infill achieves a Euroclass A1 fire rating (non-combustible) when tested in accordance with BS EN 13501-1. The glass cloth meets the requirements of BS476: Part 4: 1970 (1984). The polymeric barrier mat meets the requirements of FMVSS 302/ISO 3795.

The curtains can be used within the temperature range 0-65°C. This can be extended to 0-200°C without the polymeric barrier mat.

The curtains can be manufactured to a maximum size of 1100mm wide x 5000mm long.

The curtains can be fitted with eyelets in order to facilitate suspension by using stud fixings or similar. Hook and loop tape can also be sewn to the edges to allow attachment to adjacent surfaces or additional curtains, thus creating an acoustic seal.

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