Architen ETFE System

Rain Suppression Layer

Quietens rain noise on ETFE cushion roofs by up to 10 dB - fitted at installation or retrofitted.

Up to 10 dB
Rain noise reduction

Retrofit
Or fit at installation

Clamped
Into the existing extrusions

Polyester
Tensioned mesh top layer



Architen Acoustic

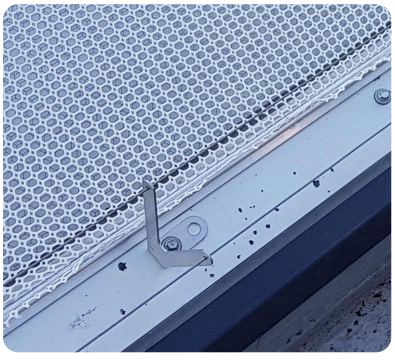
Made up of a number of tensioned membranes, an ETFE cushion can act like a snare drum under heavy rain and reverberate sound into the space below, at times creating excessive noise.

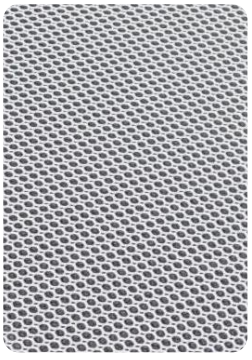
It is possible to reduce the impact of rain noise by adding a rain suppression layer to the top surface of the ETFE cushions. This tensioned mesh layer reduces the levels of reverberation to a more manageable level in two key ways:

- The tensioned mesh acts like a damper and stops the reverberation of the membrane, reducing noise levels.
- By trapping a layer of rainwater in the gaps and absorbing some of it into the woven cloth, the water acts as an acoustic insulator, protecting the space below from unwanted noise.

The rain suppression layer is fixed into the existing clamping system and can therefore be added either during installation or retrofitted, so there's no need to decide straight away whether to add it or not.

The mesh also reduces the light and solar heat transmitted into the space, which should be allowed for in the daylight and thermal design. It has a typical life of around 5 years; as it clamps into the existing extrusions, replacement is straightforward.





Key features

- Reduces noise levels by up to 10 dB
- Rapid installation
- Economically priced
- Can be retrofitted

How to specify

Our products are easy to specify. Just drop this clause into your architectural specification or download our full H80 NBS Specification.

Product	Architen ETFE Acoustic System (to be specified in conjunction with the Architen ETFE Cushion System)
System manufacturer	Architen Landrell Manufacturing Limited
Size	As per architect's drawings
Fabric	Polyester mesh
Sound reduction	Max. 10 dB