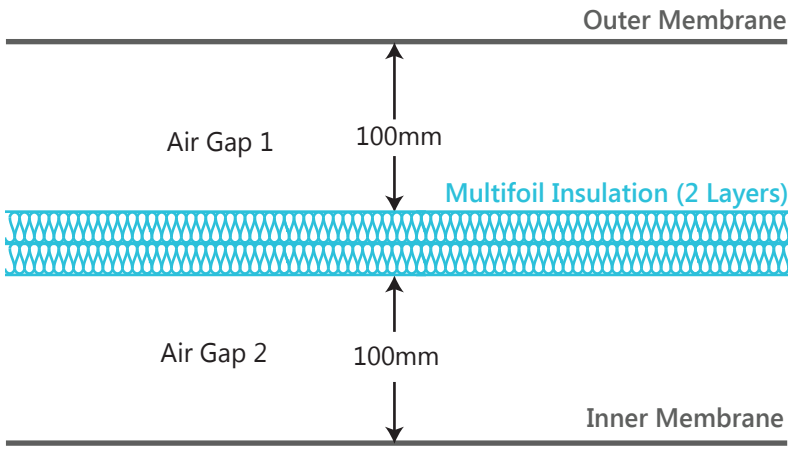
Architen Thermal

ARCHITEN LANDRELL ASSOCIATES

Serpentine Sackler Gallery

Technical Details

U Value Calculation



Outer/Inner Membranes = 5.6 w/m²k
Air = 2.5 w/m²k
Multifoil Insulation = 0.45 w/m²k

Overall U Value = 0.18 w/m²k

PVC Coated Polyester

Thickness	0.6mm
Weight	850g/m²
Fire Rating	B1/DIN 4102-1
	BS 7837

Multifoil Insulation

Thickness	40mm (x2)
Weight	700g/m² (x2)
Fire Rating	Class E
	EN 13501-1

Lightweight PVC Polyester

Thickness	0.6mm
Weight	750g/m²
Fire Rating	B1/DIN 4102-1
	BS 7837

Long gone are the days when fabric structures were only used in large unheated spaces. Architen Thermal is a high performance system capable of meeting the strict thermal values of an insulated conventional roof, while retaining the virtues of sculptural form and clear span spaces.

The technology behind Architen Thermal is the use of multi-layers, 'sandwiched' together forming the external envelope for virtually any building. The layers include: an outer membrane identical to a normal tensile roof; an insulated multi-foil membrane suspended beneath the outer layer; and a lightweight inner lining giving the underside of the system a smooth elegant appearance.

By overcoming the thermal limitations usually associated with fabric, Architen Thermal becomes viable as a building material in areas previously 'off-limits' to membrane construction.

W: www.architen.com **E:** mail@architen.com **T:**+44 (0) 1291 638200