



TECHNICAL DATA SHEET

ULTIMA Aluminium Spandrel Panels with PPC finish

Fire Performance

Reaction to fire: A2-s1,d0 to EN13501-1

Field of Application:

| Component | Covered within A2-s1,d0 classification |
|-----------------------|--|
| Outer Skin | Coating - PPC (any colour) Material - Aluminium Thickness - 2mm to 4mm |
| Insulation | Fabrock mineral wool insulation Thickness 16mm to 100mm |
| Inner Skin | Coating - PPC (any colour) OR mill finish Material - Aluminium Thickness - 1 to 2mm (mill finish) 2 to 4mm (PPC finish) -OR- Material - Galvanised Steel Thickness - 1mm to 2mm |
| Perimeter Edge | With or without perimeter edge 1. With - Ultima A1 Hard Edge 2. Without - Fabrock extending to edges of panel |
| Total Panel Thickness | As tested +/- 15% Minimum (Aluminium out and in) = 17mm Maximum (Aluminium out and in) = 124mm |
| Panel Construction | Adhesive - Vacuum bonded |

Impact Resistance

Metalline's ULTIMA spandrel panels have been impact tested in accordance with CWCT TN75/76 (soft body and hard body impacts) achieving the highest classification.

Panels Tested:

1. ULT 1 - 28mm overall thickness 3000mm wide x 1500mm high
2. ULT 2 - 100mm overall thickness (28mm thick glazing boarder) 3000mm wide x 1500mm high

Tested at the Vinci Technology Centre (November 2023)

Soft Body Impacts

| 120 J Serviceability | 350 J Safety | 500 J Safety |
|----------------------|-----------------|-----------------|
| Class 1 | Negligible risk | Negligible risk |

Hard Body Impacts

| 3 J Serviceability / Safety | 6 J Serviceability | 10 J Serviceability / Safety |
|-----------------------------|--------------------|------------------------------|
| Class 1 / Negligible risk | Class 1 | Class 1 / Negligible risk |

Wind Resistance

Metalline's ULTIMA spandrel panels have been tested in accordance with CWCT standards for wind resistance.

1. Resistance to wind load – deflection
2. Wind resistance – safety

Serviceability = 2400 Pascals (positive and negative)

Safety = 3600 Pascals (positive and negative)

Ultimate = Wind resistance to failure (or up to 4500 Pascals)

Panels Tested

1. ULT1 - 28mm overall thickness 3000mm wide x 600mm high (3mm outer / 2mm inner)
2. ULT1 - 28mm overall thickness 3000mm wide x 1000mm high (3mm outer / 2mm inner)
3. ULT1 - 28mm overall thickness 3000mm wide x 600mm high (2mm outer / 2mm inner)
4. ULT1 - 28mm overall thickness 3000mm wide x 1000mm high (2mm outer / 2mm inner)
5. ULT1 - 28mm overall thickness 3000mm wide x 2000mm high (2mm outer / 2mm inner)
6. ULT1 - 28mm overall thickness 3000mm wide x 2000mm high (3mm outer / 2mm inner)
7. ULT1 - 28mm overall thickness 3000mm wide x 1500mm high (2mm outer / 2mm inner)
8. ULT1 - 28mm overall thickness 3000mm wide x 1500mm high (3mm outer / 2mm inner)

Serviceability & Safety

All panels successfully passed serviceability and safety testing in line with CWCT standards.

Wind resistance to failure (or up to 4500 Pascals)

Panels 1, 2, 3, 4, 6, 7 & 8 reached 4500 Pascals. Panel 5 reached 4200 Pascals.