FM APPROVED

Puracore®

Puracore® 50mm Aluminium Honeycomb Panel

Framed Panel

Puracore Box Section

3000 Series Honeycomb Core

0.5mm Skin

Panel Joints

Puracore Box Section

Optional Additional Sealant Point

3000 Series Honeycomb Core

Site Applied Sealant

uPVC or Aluminium Tongue Joint

0.5mm Skin
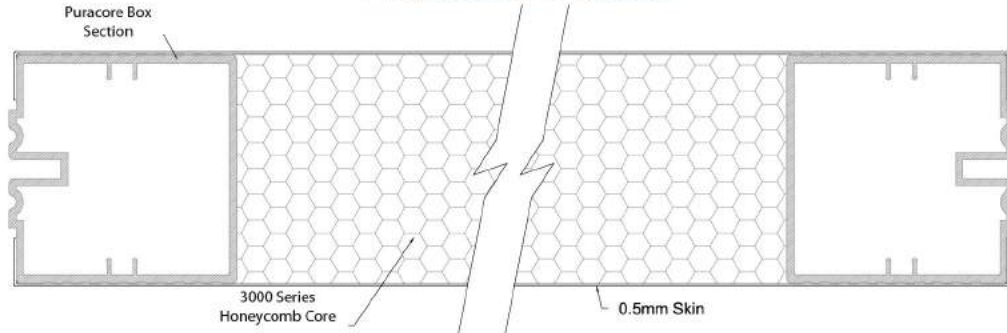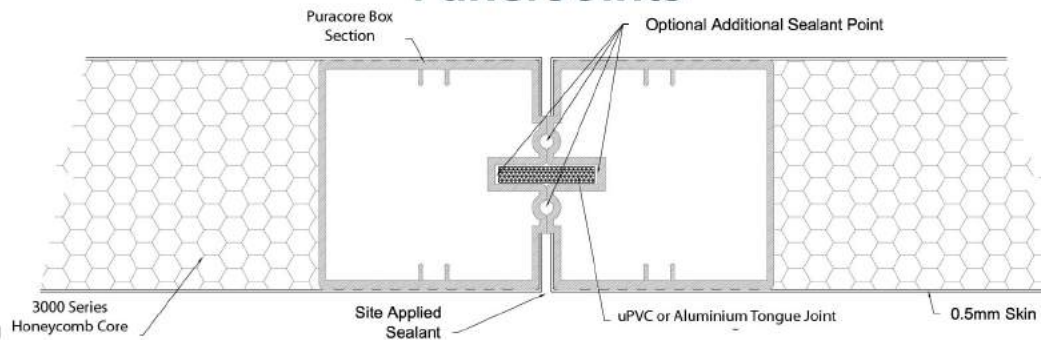
Summary Specification	
Thickness	50mm
Standard Dimensions	Up to 6000mm x 1200mm
Core	48.8mm ¾" Aluminium Honeycomb
Skin	0.5mm Galvanised Steel Substrate / Stainless Steel / Aluminium Powder Coat
Finish For Galvanised Steel Substrate	UPVC Laminate / White Polyester Painted / Primer Painted / P.E.T
Panel Frame	Aluminium 6063 Box Extrusion 2, 3 or 4 sided
Adhesive	Twin pack solvent free adhesive at 300g/m² per face
Tongue Options	Flexible PVC / Rigid PVC / Aluminium 4 side cruciform
Weight	13 kg/m²
Max. Length	6000mm
Max. Ceiling Capacity	3m to BSEN 1991 Please see overleaf for span details
Fire Resistance	P.E.T / UPVC Class O

Please see overleaf for detailed specification

Puracore®

Puracore 50mm thick modular panels are designed to be a progressive build system, providing quick assembly and tight joint lines achieving a fully flush finish.

Panel Face Skins

uPVC
0.5mm galvanised mild steel with a 120µ slightly textured PVC facing. Suitable for operating temperatures up to 60°C and achieves Class O Spread of Flame. Withstands most clean down chemicals.

Polyester
0.5mm galvanised mild steel with a base coat and 20µ polyester topcoat. Suitable for operating temperatures up to 120°C when used with the 2 pack adhesive system and achieves Class O Spread of Flame.

P.E.T
0.5mm galvanised mild steel with 55µ colaminate coating giving high protection from chemicals and cleaning. Class O Spread of Flame.

Prepainted Aluminium
0.8mm aluminium grade 1050 painted with 20µ polyester topcoat. Suitable for operating temperatures up to 120°C when used with the 2 pack adhesive system and achieves Class O Spread of Flame.

Stainless Steel
0.7mm 304 or 316 dp1 brushed finish or 2b mill finished. Suitable for operating temperatures up to 120°C when used with the 2 pack adhesive system and achieves Class O Spread of Flame.

Standard Backer (hidden surfaces)
0.5mm galvanised mild steel with polyester wash coat (colours may vary). Suitable for operating temperatures up to 120°C when used with the 2 pack adhesive system and achieves Class O Spread of Flame.

Frame Section

- 49mm extruded 6063 aluminium alloy 2mm thick box section frame to 2, 3 or 4 sides of panel
- Rebated jointing face to take the steel skins and provide a flush tight joint
- Joint face includes 2 capillary tracks and joint groove for a 3mm x 19mm/25mm uPVC or aluminium flat tongue section
- Frame is mitred to form 3 and 4 side panels using aluminium angle cleats loacted in pre-extruded locators inside the extruded box section

Panel Core

48.8mm thick aluminium 3003 grade 40µ foil perforated and chromated to prevent galvanic corrosion.

Standard Manufacturing Sizes for Wall Panels

Standard modules of 1200mm wide, maximum lengths dependent on facing:
- P.E.T, UPVC Polyester Painted and Standard Backer up to 6000mm
- Prepainted Aluminium up to 3000mm open sided panels or 2950mm with side folds
- Stainless Steel up to 2500mm

Larger lengths may be available based on panel usage and material availability, please contact us for details.

Standard Manufacturing and Span Sizes for Ceiling Panels

Puracore 50mm Aluminium Honeycomb Panels exceed BS EN 1991 to a maximum ceiling span of 5000mm

Panel Span Length (mm)	Panel Deflections (mm)		
	BS EN1991 Max. Deflection Requirement	Puracore HC Panel BS EN 1991 0.9kN/Point Loading	1.5kN/Point Loading
3000	15mm	3.8mm	7.1 mm
4000	20mm	10.3mm	17.6 mm

Max. Permissible Span with Apertures	Contact technical support

1. Load span tables are based on 50mm standard backer faced aluminium honeycomb panel with 49mm frame to 4 sides
2. Values have been calculated using the method described in BS EN 6399 using criteria span/200
3. Minimum support width of 50mm