

Concrete Canvas – 50 Year Weather Resistance Certificate

BS EN 12467:2004 ‘Fibre-cement flat sheets – Product specification and test methods’.

This document certifies that the following testing has been conducted by Concrete Canvas Ltd on Concrete Canvas products: CC5, CC8 and CC13. Testing is based on British Standard BS EN 12467:2004 and is designed to assess the effects of environmental degradation on fibre cement sheets.

Concrete Canvas has passed the Category A Weather Resistance requirements - the highest level of weather resistance for fibre cement sheets:

“which are intended for applications where they may be subjected to heat, high moisture and severe frost”.

Based on these test results Concrete Canvas can be expected to resist normal weathering for a minimum of a 50-year life for outdoor installations (UK climate ¹).

| Physical requirements and characteristics | Classification | Requirement | Result |
|---|----------------|-------------------------|--------|
| Apparent density: (set CC) | N/A | >1900 kg/m ³ | Pass |
| Bending strength | Class 1 | 4-7MPa | Pass |
| Water impermeability | Category A | Impermeable | Pass |
| Warm water: (60 ± 2) °C | Category A | (56 ± 2) days | Pass |
| Durability requirements | | | |
| Soak-dry: 6hrs at (60 ± 5) °C drying & 18hrs immersed in water >5°C | Category A | 50 cycles | Pass |
| Freeze-thaw: 1-2hrs at (-20 ± 4) °C freezing & 1-2hrs immersed in water (20 ± 4) °C | Category A | 100 cycles | Pass |
| Heat-rain (2hrs 50mins ± 5 min water spray & 2hr 50mins ± 5 min radiant heat) | Category A | 50 cycles | Pass |

Expected Life (UK climate)

Min 50 Years

¹Assumes equivalent of 2 full freeze thaw test cycles/year: 1-2hrs at (-20 ± 4) °C freezing & 1-2hrs immersed in water (20 ± 4) °C