



# Linnovate Walls Technical Sheet -

## UHPC 3D Tiles

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**Category:** UHPC 3D Decorative Wall Tiles

**Material Composition:** ≈ Ultra-high-performance concrete (UHPC) blended with fine sand for high strength and durability.

**Dimensions:** Varies by design

**Thickness:** 10-20mm

**Weight:** 20-40kg / m<sup>2</sup>

**Finish & Colours:**

Standard Finish: Matte surface.

Custom Finishes & Colours: Available upon request for colours and finishes.

### Product Description

Decorative, non-loadbearing wall tiles made from ultra-high-performance concrete. Designed for interior applications as a feature wall finish only and not intended for structural or fire-separating walls.

### Intended Use

- Interior decorative walls (commercial, hospitality, retail, residential, public spaces)
- Not suitable for structural support or inter-tenancy/fire separation construction

### Installation Guide:

**Substrate:** Interior concrete, block, brick, plasterboard/GIB, plywood, OSB. Not recommended for unstable or moisture-compromised walls. Ensure adequate wall load capacity.

**Fixing Method:** Use tile adhesive such as Sika Prohesive ProMaxset Plus (or equivalent).

**Cutting:** Use wet tile saw, table saw, angle grinder, or masonry saw with a diamond blade.

### Compliance with NZ Building Code (NZBC)

- **B1 Structure:** Not applicable (non-loadbearing)
- **C3 Fire Affecting Areas Beyond the Source:**
  - UHPC base material is non-combustible
  - Decorative use only – does not contribute to building fire load
  - UHPC concrete typically achieves Group 1 or 1-S classification under ISO 5660 surface finish testing
- **F2 Hazardous Building Materials:** UHPC contains no hazardous materials when installed as intended

### Fire Performance Statement

UHPC 3D Tiles are manufactured from non-combustible ultra-high-performance concrete.

No independent fire testing has been undertaken on this specific product in New Zealand, and local compliance is based on expected material performance.

When used as intended and installed in accordance with Linnovate's instructions, this product is expected to meet the relevant performance requirements of the New Zealand Building Code for non-loadbearing interior decorative finishes.

**Limitations**

Provides no structural support, acoustic damping, or thermal insulation.

**Warranty**

8 years (interior installations).

**Maintenance**

- Clean with mild detergent and water.

**Statement of Compliance**

This product, when used as intended, is expected to meet the relevant performance requirements of the New Zealand Building Code (NZBC). Fire performance of surface coatings, adhesives, or sealants used in installation must be confirmed during the building design phase.

**NZ Building Code Compliance Summary**

NZBC Clause	Performance Requirement	Complies
B1 Structure	Non-loadbearing – Not applicable	☉ Expected
B2 Durability	UHPC material exceeds minimum durability for non-structural finishes	☉ Expected
C3 Spread of Fire	Non-combustible material, does not increase fire load	☉ Expected
F2 Hazardous Building Materials	No hazardous materials when installed as intended	☉ Expected