

Product Technical Statement (PTS V1.0)

Section [1, 2, 3, 4, 5, 6, 7, 8]	Detail	Technical Specification & Compliance Data
1. Company Details	Manufacturer / Supplier	Company Name: Nexawall Panel Systems Limited Physical Address: 130A Park Rd, Miramar, Wellington, 6022 Website: nexawall.co.nz Technical Email: nexawall@outlook.com Technical Phone: 021 427223
2. Product Description	Material & Range	Product Name: NexaWall Composition: 12mm thick, 100% waterproof, non-structural sandwich composite panel. • Core: Purenit C rigid high-density functional insulation core. • Faces: High-Pressure Laminate (HPL) balancing skins applied to front and rear faces. • Bonding Agent: Factory laminated sandwich using Cantac HSE-Tac high heat resistant contact adhesive. Dimensions: 12mm profile thickness. Sheet sizes: 2400mm x 600mm and customisable up to 3000mm x 600mm.

3. Scope of Use	Intended Applications	• Applications: Decorative, high-durability internal vertical wall lining. • Wet Area Environments: Engineered for internal wet areas prone to frequent water splash (residential/commercial bathrooms, public shower enclosures, laundries, commercial kitchens). • Substrates: Installation directly over light gauge steel framing, timber framing, or bonded over solid substrates (plasterboard, fibre-cement, or timber backing panels). To maintain commercial fire compliance, substrates must meet minimum density profiles.
4. Limitations	Usage Constraints	• Structural: Non-structural. Cannot be relied upon for wall bracing or structural support. • External: Strictly limited to internal spaces; do not use as external cladding or joinery panel exposed to UV weathering. • Thermal: Do not expose to continuous operating temperatures exceeding -25°C or +75°C (safely within the +120°C Cantac HSE limit) or place directly behind open flames without a code-compliant thermal shield.
5. NZBC Compliance	Clause B2: Durability <i>(Perf. B2.3.1(b) - 15 Years)</i>	Pathway: Acceptable Solution B2/AS1 The Purenit C core, Cantac HSE adhesive bonding, and HPL faces are completely immune to rot, swelling, or delamination from moisture exposure, guaranteeing an in-service lifecycle exceeding 15 years.
	Clause E3: Internal Moisture <i>(Perf. E3.3.4, E3.3.5 & E3.3.6)</i>	Pathway: Acceptable Solution E3/AS1 Clause 3.1.2 (Impervious surfaces) Forms a completely impervious, non-porous surface that is easily cleaned. The 100% waterproof construction ensures that if moisture passes a joint, the core cannot absorb water, warp, or rot.

	Clause C3: Fire Beyond Source (Perf. C3.4(a))	Pathway: Acceptable Solution C/AS2 Appendix C (via Euroclass framework) Performance: Achieves a Group 2-S Fire Rating based on core component performance (Euroclass Class C-s2, d0 to EN 13501-1). Fire rating for commercial installations is valid only when panels are fixed via structural PU glue or metal screws in combination with any of the standard installation instructions onto light gauge steel, wood substrates (from 10mm, 472.5 kg/m³), plasterboard (from 12mm, 525 kg/m³), or Euroclass A1/A2-s1, d0 backings.
	Clause F2: Hazardous Materials (Perf. F2.3.1)	Pathway: Alternative Solution / Testing Purenit C and HPL components are fully cured, inert, and do not release harmful volatile organic compounds (VOCs) or formaldehydes in service. Factory adhesive solvents completely flash off during manufacturing.

6. Installation & Jointing	Fixing Methods & Splash Details	Approved Panel-to-Wall Fixing Methods: 1. Structural Polyurethane (PU) Glue: Continuous beads spaced at max 300mm centres. 2. Mechanical Fasteners (Screws): Countersunk steel screws into panel tongues at max 800mm centres into solid framing or substrates. 3. High-Bond Double-Sided Foam Tape: Used as a commercial installation aid or for general residential non-fire-rated installations. 4. Fire Compliance Constraint: To claim the Group 2-S Fire Rating (commercial/public wet rooms), panels must be fixed using PU glue or Screws over commercial rated substrates. 5. Splash Zone Jointing: Sheet junctions use interlocking tongue-and-groove profiles with silicone sealant. 6. Perimeter Protection: All wall-to-floor junctions and boundary lines against sanitary fixtures must be sealed with anti-fungal sanitary silicone. 7. Shower Heights: Enclosures must extend continuously to a minimum height of 1800mm above the finished floor level, or 300mm above the shower rose.
7. Maintenance	Care Requirements	• Routine Cleaning: Clean regularly with a soft cloth/ sponge using warm water and mild, non-abrasive household soaps. • Prohibitions: Avoid abrasive scouring pads, steel wool, or highly alkaline/acidic chemical cleaners which could dull the HPL finish. • Sealant Inspection: Inspect corner and fixture boundary silicone joints every 12 months; replace immediately if damaged to protect framing.

8. Sign-off	Declarations	• Section 26 Warning/Ban: No. • Declaration: Prepared in accordance with the MBIE Product Assurance framework guidelines. Technical claims accurately reflect the core and composite lamination properties. • Issued By: Phil Bracen., Technical Director] • Date of Issue: 01/06/2026 • Version Number: V1.0
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