Building Product Information Disclosure

Expanders® — All Expanders

Responsible person (Importer): SGW Capital Limited trading as Expanders®

NZBN: 9429051516901

Issued under: Building (Building Product Information Requirements) Regulations 2022, sections 362VA / 362VE of the Building Act 2004

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1. About this disclosure

This document is the New Zealand product information disclosure for the Expanders® All Expanders range. It is published by SGW Capital Limited (trading as Expanders®) under the Building (Building Product Information Requirements) Regulations 2022. The Regulations require importers of designated building products in New Zealand to publish specific information about each designated building product they supply, so that councils, designers, builders, and end customers can see — at a glance — what the product is, how it is intended to be used, what it has been tested against, and where it is not suitable.

Expanders® takes this requirement seriously. We have chosen to publish this disclosure as a free, public document with no login or email gate. We believe that transparency about what is in our buildings is the right way to operate — both because it is what the Regulations require, and because it is consistent with how we have always done business in New Zealand and the Pacific.

This disclosure should be read alongside the Expanders® product page for the All Expanders range at https://expanders.co.nz, the Building Code clauses identified in section 8 of this document, and any project-specific consent documentation prepared by a New Zealand-registered designer for the actual installation site.

2. About SGW Capital Limited and Expanders®

Expanders® is the trading name of SGW Capital Limited, a New Zealand-registered company that imports and supplies expandable portable buildings to customers in New Zealand and the Pacific Islands. Our product range covers studios and sleepouts, full-scale expandable units, premium Luxe-fitted units, and a programme of add-on and upgrade components.

As at the effective date of this disclosure, Expanders® has:

- Delivered more than 350 units to customers across New Zealand and 9 Pacific Islands.
- Operated for three years as a New Zealand-registered import and supply business under NZBN 9429051516901.
- Earned a 4.7-star Google review average across more than 110 verified customer reviews.
- Built an in-country support, warranty and warehousing footprint in New Zealand to back up every unit we sell.

We position Expanders® as a smarter, faster alternative to traditional building — not as a direct replacement for it. Our units are portable buildings. Depending on the council, the site, and the customer's intended use, a particular unit may or may not be suitable for a fully consented permanent dwelling without further work. We are upfront about this with every customer at the quote stage, and we are upfront about it again in section 9 of this disclosure.

3. Our approach to product quality and compliance

Expanders® has built its supplier programme around three principles, and the same three principles run through this disclosure:

- Standards-led specification. Each component in an Expanders® unit is specified against an Australian, New Zealand or international standard recognised in New

Zealand practice (AS/NZS, ISO, EN, GB), and we hold the third-party certification or test report that backs the specification on file.

- Honest disclosure of gaps. Where a certificate has expired, where a test was performed against an overseas standard rather than a New Zealand one, or where a particular product has not been formally certified at all, we say so. Honesty about gaps is not a sales risk — it is what protects the customer, the designer, the council, and the importer when it comes time to consent and use the building.
- New Zealand-side oversight. Every Expanders® unit is final-connected by a New Zealand-registered electrician and a New Zealand-registered Certifying Plumber / Drainlayer. Where the project requires building consent, the consent is obtained on a project-specific basis through a New Zealand-registered designer, with Expanders® supplying the manufacturer evidence referenced in this disclosure to support the consent application.

In addition to per-component standards, our overseas manufacturing partner operates ISO 9001 (quality), ISO 14001 (environmental) and ISO 45001 (occupational health and safety) management systems issued under IAF MLA-recognised certification. The certificate references are recorded in section 6 of this document.

4. How an Expanders® unit is built

An Expanders® unit is a factory-assembled, expandable portable building. It is delivered to a New Zealand site as a single transportable module and is mechanically expanded out on site to provide significantly more internal floor area than its transport footprint. The principal components covered by this disclosure are:

- All-steel structural chassis and wall frame (B1 Structure / B2 Durability).
- Composite sandwich external wall cladding panels with insulating core (B2 / E2 / F2).
- Composite sandwich roofing panels with insulating core (B2 / E2 / E3).
- Thermal insulation to walls and roof (H1 Energy Efficiency / F2).
- Internal wall and ceiling lining panels (C Protection from Fire / F2).
- Sanitary plumbing pre-rough-in, pipework, fixtures and tapware to the bathroom and kitchen, ready for site connection by a Certifying Plumber (G12 / G13 / G3 / B2).
- Mechanical fixings for principal structural connections and tie-down (B1 / B2).
- External aluminium window joinery, double-glazed (B2 / E2 / H1 / F2). Customised per order — disclosed as a Class 2 product.
- External aluminium door joinery, double-glazed (B2 / E2 / H1 / F2). Customised per order — disclosed as a Class 2 product.

Electrical wiring, switchgear, accessories and gas appliances are excluded from the Building (Building Product Information Requirements) Regulations 2022 by Regulation 7(e); these are governed by the Electricity (Safety) Regulations 2010 and the Gas Act 1992 respectively, and are final-connected by a New Zealand-registered electrician or gasfitter on site. Supplementary supplier evidence held on file for these items is summarised at Appendix B.

Components used in Expanders® buildings fall into two classes under the Regulations:

- Class 1 (Regulation 5): mass-produced products or products produced in batches to a general specification — cladding, roofing, insulation, internal linings, structural framing, sanitary plumbing and tapware, and mechanical fixings.

- Class 2 (Regulation 6): products customised per individual client order — external window joinery and external doors where the customer selects size, configuration or finish on a per-order basis.

5. Importer (Responsible Person)

Under the Regulations, SGW Capital Limited (trading as Expanders®) is the responsible person, in its capacity as the New Zealand importer of the products disclosed in this document. Any question about the information in this disclosure can be directed to the contact details below or to the addresses set out at section 11.

Importer (Responsible Person under the Regulations)

Legal name (Importer)	SGW Capital Limited
Trading name	Expanders®
NZBN	9429051516901
Address for service	c/- Nexia Christchurch Limited, Level 4, 123 Victoria Street, Christchurch Central, Christchurch 8013, New Zealand
Public website	https://expanders.co.nz
Public email	info@expanders.co.nz

6. Primary manufacturer

The Expanders® All Expanders range is manufactured under a continuing supply relationship with a single overseas manufacturer, identified below in accordance with Schedule 1(c)(ii)(A) of the Regulations. Where an individual component within a unit is supplied by a different manufacturer or sub-manufacturer, the relevant component section in this document references the applicable third-party certification.

Primary manufacturer details

Disclosed in accordance with Schedule 1(c)(ii)(A) of the Regulations.

Legal name	Hebei Tianyu Guangbo Module Housing Company Limited
Trading name	TYGB
Country of operation	People's Republic of China — Wuyi County, Hengshui, Hebei Province
Public website	https://www.hbtygbhouse.com
Contact email (manufacturer)	davelee@tygbhouse.com
NZBN	Not applicable (overseas manufacturer)

The manufacturer named above produces all Expanders® buildings disclosed in this document under a continuing supply relationship with SGW Capital Limited. Component materials within each unit (such as steel sheet, aluminium joinery extrusions, plumbing fittings and tapware) are sub-sourced by the manufacturer from third-party suppliers

operating under their own internationally-accredited quality systems and product certifications. Where a third-party certification is relied on for an individual component, the certificate is referenced by certificate number and standard in the relevant component section of this document. Sub-supplier names, addresses and certificate-holder details are held on file by SGW Capital Limited and are provided on written request to a consent-related party (a New Zealand consenting authority, a New Zealand-registered designer or engineer working on the consent, a Certifying Plumber, or an insurer underwriting the build).

Manufacturer's quality, environmental and occupational health & safety systems

The primary manufacturer holds the three internationally-recognised management-system certifications listed below, each issued under IAF MLA-recognised certification and CNAS-MS accreditation. These management-system certificates apply to the manufacturer's overall production processes; product-level conformity is addressed through the component-specific certifications referenced in section 8 of this document.

- **ISO 9001:2015 Quality Management System** — Certificate No. 122122Q35158R0M, IAF MLA-recognised.
- **ISO 14001:2015 Environmental Management System** — Certificate No. 122122E12048R0M, IAF MLA-recognised.
- **ISO 45001:2018 Occupational Health and Safety Management System** — Certificate No. 122122S10568R0M, IAF MLA-recognised.

The manufacturer's certificates are subject to annual supervisory audits and are reviewed at each renewal cycle. SGW Capital Limited holds copies of the current certificates and will refresh the references in this disclosure as renewed certificates are issued.

7. All Expanders product line — overview

The All Expanders range covers the full line of Expanders' expandable portable buildings. These are imported pre-built and, on site, expand out to deliver significantly more internal floor area than their transport footprint. Typical use cases include site accommodation, farm buildings, rural dwellings (subject to consent), holiday units, temporary housing and Pacific Islands deployments. They are NOT automatically consented dwellings — consent is site- and council-dependent.

8. Designated Building Product Disclosures

8.1. External wall cladding

Designated Building Product — Class 1 (Regulation 5 / Schedule 1)

(a) Description

External wall cladding. Intended use: Weatherproof exterior skin of the building envelope, integral to the factory-assembled wall panel, providing weather resistance and contributing to thermal performance of the portable building.

Composite sandwich wall panel ("metal embossed insulation composite plate"): 0.30mm colour-coated galvanized steel outer skin (decorative embossed face), 16mm polyurethane

(PU) foam insulating core, aluminium-foil inner protective layer. Total panel thickness 16mm. External surface finished with factory anti-corrosion spray paint. Manufacturer type designation: T16. Available colour options: black, dark grey, light grey, white and wood-pattern finish.

(b) Product identifier

TYGB type code: T16 (16mm composite sandwich wall panel — galvanised steel + PU + aluminium foil)

(c) Manufacturer and importer

Importer (responsible person) details are at section 5 of this document. Primary manufacturer details are at section 6. Sub-supplier and certificate-holder details are held on file by SGW Capital Limited and are provided on written request to a consent-related party.

(d) Building Code compliance statement

(i) Relevant Building Code clauses within the intended scope of use

B2 Durability (clauses B2.3.1, B2.3.2), E2 External Moisture, F2 Hazardous Materials, C Protection from Fire (addressed at system level).

(ii) How this product contributes to compliance

- Applicable compliance options under section 19 of the Building Act 2004:

Alternative Solution under section 19(1)(b) of the Building Act 2004. Where the Expanders unit is used in building work that requires a building consent, the cladding system is assessed on a case-by-case basis by the consenting authority against the relevant Building Code clauses. No Acceptable Solution (E2/AS1) or product certification (CodeMark) is relied on for this component as supplied.

- Standards or technical documents the product is manufactured to:
    - Steel outer skin: colour-coated galvanised steel produced under GB/T 12754 / GB/T 2518 series. The supplying steel mill operates under a current ISO 9001:2015 quality management certificate (Certificate No. 10423Q01806R0M, IAF MLA-recognised; valid through 14 September 2026). Published quality commitment specifies KCC paint, total coating thickness ≥ 5+13/5 µm (primer + topcoat / back-coat), zinc galvanising 30 g/m² minimum, and a use restriction beyond 1500 m from coastline / heavy industry.
    - Cladding panel pressing and core lamination: the panel sub-manufacturer holds renewed ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 management-system certificates (Certificate Nos. A06023QXCX03S, A06123EXCX03S and A06223SXCX03S; all valid through 3 May 2026; scope: production of metal embossed thermal insulation composite panels and aluminium integrated panels; processing of lightweight steel keels). A historical EN 14309:2009+A1:2013 (UDEM Certificate M.2019.206.C0840) was held against the European thermal-insulation standard but expired 23 April 2024 and is not currently relied on.
    - Cladding panel fire test (composite assembly): Test Report No. W12021B03D00750 issued by China Building Material Test Certification Group Co., Ltd. (CTC), Beijing — a CNAS-accredited ISO/IEC 17025 testing laboratory (CNAS L0690). Sample: metal embossed insulation composite plate, 0.30mm galvanized steel + 16mm PU + aluminium foil; sample size 4000 × 383mm. Tested October–November 2021 against GB/T 8626-2007 (ignitability) and GB/T 20284-2006 (single burning item) and judged against GB 8624-2012. Result: combustion performance Class B1 (C-s3, d0) — Lateral flame spread Fs < 150 mm; no ignition of filter paper; Fire growth rate

index 125 W/s (limit ≤ 250 W/s); Total heat evolved in 600 s = 5.6 MJ (limit ≤ 15 MJ); Smoke growth rate s2 not reached; no burning droplets / particles in 600 s. Same test report records: impact resistance 3 J PASS and 10 J PASS to JGJ 144-2019 Appendix A.4; tensile strength 0.29 MPa; thermal resistance 0.54 m²·K/W to GB/T 14383-2008; oxygen index of the polyurethane core 30.3% to GB/T 2406.2-2009. GB 8624-2012 is the Chinese fire-classification system; this is not an AS/NZS 1530.3 fire test, and the New Zealand Building Code C-clause assessment for any consented installation must be performed by the consent designer.

- Asbestos identification (T16 panel): Agon Environmental Pty Ltd (Adelaide, Australia — NATA accredited ISO/IEC 17025, Accreditation No. 20148) Test Report JL5331-419-2, dated 18 June 2025, tested a T16 panel sample to AS 4964:2004. Result: no asbestos detected. This certificate covers F2 Hazardous Materials only; it does not test weathertightness, fire reaction, wind loading or structural performance.
- A separate NATA-accredited AS/NZS 1530.3-1999 fire test and a separate NATA-accredited AS 4964-2004 asbestos test are held for a different product — a 75mm EPS / colour-steel wall panel — and are recorded in section 8.3 (Thermal insulation). Those two tests are not tests on the T16 cladding panel described in this section.
- No independent New Zealand cladding-system test certificate (e.g. AS/NZS 4284, E2/VM1) is held for the T16 cladding panel as supplied.

- Physical properties:

Overall panel thickness 16mm (0.30mm galvanised steel + 16mm PU + aluminium foil). Tested thermal resistance of the panel: 0.54 m²·K/W (CTC W12021B03D00750). Tested impact resistance: 3 J PASS, 10 J PASS (JGJ 144-2019). Tested tensile strength: 0.29 MPa. Tested oxygen index of PU core: 30.3%. Combustion performance classification: Class B1 (C-s3, d0) per GB 8624-2012. Asbestos content: none detected (Agon Environmental, 18 June 2025).

- Intended use (restate):

Weatherproof exterior skin of the building envelope, integral to the factory-assembled wall panel, providing weather resistance and contributing to thermal performance of the portable building.

(iii) Limitations on use within intended scope

Supplied as part of a portable building envelope. The cladding panel has a Chinese GB 8624-2012 Class B1 (C-s3, d0) classification, an asbestos-identification result, and CTC tests for impact, tensile and thermal resistance — but is NOT tested or rated to NZ wind exposure zones under E2/AS1, has no AS/NZS 1530.3 fire test on this T16 product, and is not a verified weathertight cladding system as defined in the New Zealand Building Code. The historical EN 14309 certificate has expired and is not relied upon; sub-manufacturer quality coverage is now via current ISO 9001 / 14001 / 45001 management-system certificates referenced above. Not suitable for use as standalone wall cladding on a permanent habitable dwelling that is subject to building consent without case-by-case assessment and supporting producer statements from a New Zealand engineer and/or weathertightness specialist.

(e) Design requirements

Panel-to-panel joints and junctions to be sealed per the manufacturer's factory assembly detail. Any site-replaced panel must be sealed on the same detail. Flashings at openings and penetrations to be installed per manufacturer detail or New Zealand specifier's design.

(f) Installation requirements

Panels are fitted to the steel frame and sealed at the manufacturing facility. Site work is limited to flashings, penetrations and minor repair. Any cladding repair or replacement must use matching panels and sealants compatible with the original system.

(g) Maintenance requirements

Wash externally once every 12 months with fresh water to remove airborne salt, dust and contaminants. Inspect panel joints and external sealant every 12 months — re-seal promptly where degradation is observed. Expected service life: 15+ years in typical New Zealand exposure conditions subject to maintenance; shorter in coastal or severe (marine) exposure zones.

(h) Warnings and bans under section 26 of the Act

This product is not currently subject to a warning or ban under section 26 of the Building Act 2004.

8.2. Roofing

Designated Building Product — Class 1 (Regulation 5 / Schedule 1)

(a) Description

Roofing. Intended use: Weatherproof roof covering to the portable building, shedding water and providing the primary roof-plane envelope. Factory-fitted to the pitched roof structure.

Composite sandwich roof panel: colour-coated steel outer sheet, expanded polystyrene (EPS) foam insulating core. Corrugated profile. Total panel thickness 50mm. Anti-corrosion spray paint finish. Manufacturer type designation: T50 (50mm EPS corrugated roof panel). Factory-fitted pitch: 8.8 degrees.

(b) Product identifier

TYGB type code: T50 (50mm corrugated EPS roof panel)

(c) Manufacturer and importer

Importer (responsible person) details are at section 5 of this document. Primary manufacturer details are at section 6. Sub-supplier and certificate-holder details are held on file by SGW Capital Limited and are provided on written request to a consent-related party.

(d) Building Code compliance statement

(i) Relevant Building Code clauses within the intended scope of use

B2 Durability, E2 External Moisture, E3 Internal Moisture.

(ii) How this product contributes to compliance

- Applicable compliance options under section 19 of the Building Act 2004:

Alternative Solution under section 19(1)(b). No Acceptable Solution (E2/AS1) or product certification is relied on for the roofing panel as supplied; consent (where required) is obtained on a case-by-case basis with supporting engineering and weathertightness assessment.

- Standards or technical documents the product is manufactured to:
    - Steel roof sheet: colour-coated galvanised steel produced under GB/T 12754 / GB/T 2518 series. Supplying steel mill operates under a current ISO

9001:2015 quality management certificate (Certificate No. 10423Q01806R0M, IAF MLA-recognised; valid through 14 September 2026). Published quality commitment: KCC paint, total coating thickness ≥ 5+13/5 µm, zinc galvanising 30 g/m² minimum, use restriction beyond 1500 m from coastline / heavy industry.

- EPS insulation core: supplied by a Hebei-based EPS sub-manufacturer registered under the Hebei Province Construction Engineering Materials Use Filing system. Governing Chinese standard for moulded polystyrene board is GB/T 10801.1. See section 8.3 for the tested thermal conductivity (λ = 0.035 W/(m·K)) of the EPS material and for the asbestos test on the EPS panel (no asbestos detected per AS 4964-2004).
- Overall roof panel: manufactured to factory specification. No NZ product certification (CodeMark) or E2/AS1 compliance is claimed.
- No fire-reaction test certificate is held for the T50 roof panel as a finished assembly. The wall-panel-level AS/NZS 1530.3-1999 fire test recorded in section 8.3 is on a 75mm EPS + colour-steel wall panel and is NOT a test on the T50 corrugated roof panel.
- Glass-fibre reinforced polyester (FRP / fibreglass) roof panel options are NOT used on Expanders® units delivered into New Zealand or the Pacific Islands. The FRP roof panel option is supplied only to Australian customers and is outside the scope of this disclosure.

- Physical properties:

50mm total panel thickness; corrugated colour-steel outer sheet; EPS foam core; anti-corrosion spray paint finish. Wind-load rating: not independently tested to AS/NZS 1170. Fire performance of the EPS core to be addressed at the system level where the C clauses apply. Asbestos: not detected on the EPS panel (AS 4964-2004).

- Intended use (restate):

Weatherproof roof covering to the portable building, shedding water and providing the primary roof-plane envelope. Factory-fitted to the pitched roof structure.

(iii) Limitations on use within intended scope

Roof pitch is fixed at 8.8 degrees at manufacture. The roofing system is supplied as part of a portable building. Not independently verified to NZ wind zones. Not intended for use on permanent habitable dwellings subject to consent without site-specific engineering sign-off. The EPS core is combustible; fire-separation requirements under C clauses (if applicable to the intended use) must be addressed at the overall wall / roof system level by the consent designer.

(e) Design requirements

Pitch is factory-fixed at 8.8°. Ridge flashings, gutters, downpipes and penetrations to be installed per the manufacturer's detail or a New Zealand specifier's design. Provide weathertight underlay and flashings at junctions where required by the consenting authority.

(f) Installation requirements

Roof panels installed at the manufacturing facility. Site work is limited to ridge / edge flashings, gutter / downpipe installation, service penetrations and maintenance.

(g) Maintenance requirements

Clear gutters and downpipes at least twice per year. Inspect roof sheets, flashings and sealant annually — repaint or touch up any surface damage within 12 months to preserve durability. Expected service life: 15+ years in typical New Zealand exposure; less in severe/marine exposure.

(h) Warnings and bans under section 26 of the Act

This product is not currently subject to a warning or ban under section 26 of the Building Act 2004.

8.3. Thermal insulation

Designated Building Product — Class 1 (Regulation 5 / Schedule 1)

(a) Description

Thermal insulation. Intended use: Insulation within the wall and roof panels to contribute to thermal performance of the portable building.

Expanded polystyrene (EPS) foam, 60mm thickness, bonded as the core of the factory-assembled wall and roof sandwich panels. Not a separate loose-fill or batt insulation product — integral to the panel systems at 5.1 and 5.2.

(b) Product identifier

EPS foam core, 60mm, within wall and roof sandwich panels

(c) Manufacturer and importer

Importer (responsible person) details are at section 5 of this document. Primary manufacturer details are at section 6. Sub-supplier and certificate-holder details are held on file by SGW Capital Limited and are provided on written request to a consent-related party.

(d) Building Code compliance statement

(i) Relevant Building Code clauses within the intended scope of use

H1 Energy Efficiency, F2 Hazardous Materials, C Protection from Fire (addressed at wall-system level).

(ii) How this product contributes to compliance

- Applicable compliance options under section 19 of the Building Act 2004:

Alternative Solution under section 19(1)(b). Where the building is used in work requiring consent and H1 is applicable, the as-built thermal performance of the wall/roof system must be verified by the consent designer. The metric R-value stated below is a factory-level value calculated from the sub-manufacturer's tested thermal conductivity and does not substitute for a system-level H1 calculation.

- Standards or technical documents the product is manufactured to:
  - EPS board tested to the Chinese national standards series for moulded polystyrene insulation (GB/T 10801.1 and associated GB/T 8813 / 8624 / 10294 / 8627 / 8812 standards). Test laboratory report held on file.
  - Tested thermal conductivity: $\lambda = 0.035$ W/(m·K) on a 1200 × 600 × 50mm EPS sample. Tested compressive strength: 178 kPa (spec ≥ 100 kPa). Tested water absorption: 0.4% by volume (spec ≤ 4%). Flammability classification: B1 (flame retardant).
  - Factory-stated metric thermal resistance for the 60mm EPS layer: R ≈ 1.71 m^2·K/W (calculated as 0.060 ÷ 0.035). This is a factory-level figure for the EPS layer alone; it does NOT include the steel skins, cavity effects or junctions, and it is NOT a whole-of-wall or whole-of-roof R-value.

  - Panel-level AS/NZS fire test (EPS / steel wall panel assembly): AWTA Product Testing (Australian Wool Testing Authority Ltd — NATA ISO/IEC 17025 accredited, Accreditation Nos. 983, 985, 1356, Melbourne) Test Report 23-004999 dated 18 December 2023, tested to AS/NZS 1530.3-1999. Sample: steel-faced EPS sandwich wall panel, 75mm thickness, approx 67.7 kg/m², white. Regulatory Indices: Ignitability Index 7 (range 0–20), Spread of Flame Index 0 (range 0–10), Heat Evolved Index 1 (range 0–10), Smoke Developed Index 6 (range 0–10). Important AWTA test caveat reproduced from the test report: "The specimens melted and flowed away from the area of maximum heat during the test. Due to this phenomenon it should be recognised that this test result may not be a true indication of the product's fire hazard properties." AS/NZS 1530.3 is a material-reaction test only; it is not a full AS/NZS 3837 or ISO 9705 system test and does not of itself establish compliance with the New Zealand Building Code C clauses, which must be addressed at the system level by the consent designer.
  - Panel-level asbestos identification (EPS / steel wall panel assembly): Greencap Pty Ltd (Adelaide laboratory — NATA accredited ISO/IEC 17025, Accreditation No. 5450) Asbestos Identification Report No. 55582, dated 28 April 2023, tested to AS 4964-2004. Sample: 75mm EPS / colour-steel wall panel. Result: no asbestos detected, no synthetic mineral fibres detected, no organic fibres detected.
  - Scope note for the two tests above. Both tests were performed on a wall panel product described as 75mm EPS / colour-steel sandwich. That product is NOT identical to the T16 cladding panel (16mm, PU core) described in section 8.1, and is a different panel description from the T50 roof panel (50mm, EPS core) in section 8.2. Per-order confirmation that the wall panel installed on a specific Expanders® unit matches the tested 75mm panel is held on file.
  - No independent New Zealand whole-of-system thermal or fire-performance test certificate is held for the wall / roof system as installed in an Expanders® unit.

- Physical properties:

EPS foam, 60mm thickness within wall and roof sandwich panels. Tested λ = 0.035 W/(m·K). Factory-level R for the 60mm EPS layer ≈ R-1.71 (metric). Compressive strength 178 kPa. Water absorption 0.4% by volume. Flammability classification B1 (flame retardant per the Chinese rating system). Panel-level AS/NZS 1530.3-1999 fire indices on a 75mm EPS/colour-steel wall panel assembly: Ignitability 7 / Spread of Flame 0 / Heat Evolved 1 / Smoke Developed 6 (AWTA Test Report 23-004999, 18 December 2023). Panel-level asbestos: no asbestos detected on the 75mm EPS/colour-steel wall panel (Greencap Report 55582, AS 4964-2004, 28 April 2023).

- Intended use (restate):

Insulation within the wall and roof panels to contribute to thermal performance of the portable building.

(iii) Limitations on use within intended scope

Not supplied as a standalone insulation product — integral to the wall/roof sandwich panel. Not a field-applied product. The factory-level R-1.71 figure is for the EPS layer only and does NOT meet the New Zealand Building Code H1 wall or roof R-value schedules in most climate zones on its own. Any reliance on thermal performance for H1 Energy Efficiency consent compliance requires whole-of-wall / whole-of-roof calculation by the consent designer, who will add the lining, cavity and external skin contributions. The AS/NZS 1530.3-1999 fire indices recorded above are a material-reaction test result (with the AWTA caveat

that specimens melted and flowed during the test) on a 75mm EPS/colour-steel wall panel product; they do NOT of themselves establish compliance with the New Zealand Building Code C clauses, and an NZ C-clause fire-engineering assessment of the wall/roof system must still be performed by the consent designer where C clauses apply. Applicability of the 75mm panel fire and asbestos certificates to a specific Expanders unit is conditional on TYGB confirming that the installed wall panel matches the tested product.

(e) Design requirements

Integral to the sandwich panel system. Cannot be field-substituted without replacing the panel. Consent designer to compute whole-of-wall and whole-of-roof R-values starting from the factory-level $\lambda = 0.035$ W/(m·K) and adding the other layer contributions.

(f) Installation requirements

Pre-installed at the TYGB factory within the wall and roof panels.

(g) Maintenance requirements

No direct maintenance. Protect the panel from impact damage that would expose or damage the foam core; repair any damage promptly.

(h) Warnings and bans under section 26 of the Act

This product is not currently subject to a warning or ban under section 26 of the Building Act 2004.

8.4. Internal wall and ceiling linings

Designated Building Product — Class 1 (Regulation 5 / Schedule 1)

(a) Description

Internal wall and ceiling linings. Intended use: Interior lining that provides the finished internal surface on walls and ceilings of the portable building.

Two lining products: (a) Wall protection panel — colour-coated steel-faced composite panel, used as the visible internal wall and ceiling surface; (b) Sanded glass-magnesium ("sanding") board — sanded fibre-reinforced magnesium-oxide board, 6–9mm thickness range, used as a backing / sub-lining beneath the wall protection panel and as a floor underlay where applicable. The optional alternative interior finish is a painted steel panel (selected per customer order).

(b) Product identifier

(a) Wall protection panel (colour-coated steel-faced composite); (b) Sanded glass-magnesium board

(c) Manufacturer and importer

Importer (responsible person) details are at section 5 of this document. Primary manufacturer details are at section 6. Sub-supplier and certificate-holder details are held on file by SGW Capital Limited and are provided on written request to a consent-related party.

(d) Building Code compliance statement

(i) Relevant Building Code clauses within the intended scope of use

C Protection from Fire (addressed at system level), F2 Hazardous Materials, G3 Food Preparation (where applicable to kitchen surfaces).

(ii) How this product contributes to compliance

- Applicable compliance options under section 19 of the Building Act 2004:

Alternative Solution under section 19(1)(b). Where the building is used in consented work, the fire performance of the lining at a system level (together with the framing and cladding) is addressed by the consent designer. The Chinese GB 8624-2012 fire test referenced below is not an AS/NZS 1530 fire test, and a New Zealand C-clause assessment must be performed at the system level by the consent designer.

- Standards or technical documents the product is manufactured to:
  - **Wall protection panel — fire-reaction test (Boyuan Testing).** Test Report No. BYT220427S0948 issued by Shenzhen Boyuan Testing Technology Co., Ltd. (CMA-accredited 201819013653L; CNAS-accredited L12624). Sample received and tested 15–27 April 2022. Tested to GB/T 8626-2007 (ignitability), GB/T 20284-2006 (single burning item / SBI) and judged against GB 8624-2012. **Result: combustion performance Class B1, classification (C-s3, d0)** — Lateral flame spread Fs ≤ 150 mm; Ignitability ≤ 60 s; Total heat release < 7.5 MJ in 600 s; Smoke production rate s ≤ 180 m^2/s^2; No flaming droplets in 600 s (d0 rating). The Boyuan certificate states explicitly that the report is invalid without approver signature and the laboratory's special inspection seal.
  - **Sanding board — asbestos identification (CTC Beijing).** Test Report No. W222555GA issued by CTC Beijing Technology Co., Ltd. — National Research Center of Testing Techniques for Building Materials (CMA / CNAS-accredited, accreditation 210002289343 / CNAS L6845). Sample received 7 December 2022, tested 7–10 December 2022. Sample: sanding board, finished product, grey, block-like, total weight ~606.3 g, sampled by five-point method. Tested to AS 4964-2004 (Australian / international asbestos identification) by polarised-light microscopy and dispersion-staining method. **Result: no asbestos detected** — Chrysotile, Tremolite, Actinolite, Anthophyllite, Crocidolite, Amosite all not detected (LOD 0.1 g/kg).
  - Both lining products are manufactured to TYGB factory specification. Governing Chinese standards for comparable products include GB 18580 (formaldehyde emission), GB 8624 (fire reaction) and the GB/T fibre-cement / magnesium-oxide board series for the sanding board.
  - **No GB 18580 formaldehyde-emission test report** is held for either the wall protection panel or the sanding board. **No AS/NZS 1530 series fire test** is held for either product. **No New Zealand low-emission (e.g. E0/E1) certification** is held for either product. The Boyuan GB 8624-2012 result is the Chinese fire-reaction system and is not directly equivalent to AS/NZS 1530.3 indices or to the New Zealand Building Code C-clause Group Number system.
- Physical properties:

Wall protection panel: colour-coated steel facing on a composite core; matt finish; combustion class B1 (C-s3, d0) per GB 8624-2012 (Boyuan BYT220427S0948, April 2022). Sanding board: 6–9mm fibre-reinforced glass-magnesium board; no asbestos detected per AS 4964-2004 (CTC W222555GA, December 2022). Formaldehyde emission and AS/NZS 1530-series fire performance: not tested and not claimed.

- Intended use (restate):

Interior lining that provides the finished internal surface on walls and ceilings of the portable building.

(iii) Limitations on use within intended scope

The Boyuan GB 8624-2012 fire-reaction result is a Chinese standard test and is NOT a substitute for an AS/NZS 1530.3 / AS 5637.1 Group Number assessment under the New Zealand Building Code C clauses. No formaldehyde-emission test (GB 18580 or NZ equivalent) is held for either lining. Where the consenting authority requires fire-rated linings or low-emission certification for the intended use (e.g. C clauses apply, residential bedroom / living spaces, or internal-air-quality standards apply), the lining specification will need to be supplemented by an Alternative Solution package prepared by a New Zealand fire engineer or upgraded to a verified product.

(e) Design requirements

Sanding board fixed first as a backing layer; wall protection panel installed over the sanding board where used as the visible facing. Both fixed to the internal face of the wall/roof panels at the factory.

(f) Installation requirements

Pre-installed at the TYGB factory. Repair or replacement uses like-for-like panels sourced from TYGB. Site-installed wall protection panels (e.g. behind kitchen splashbacks added by the customer) are outside the scope of this disclosure.

(g) Maintenance requirements

Clean with a soft damp cloth as required. Avoid abrasive cleaners and strong solvents. Expected service life: 10+ years with normal household use.

(h) Warnings and bans under section 26 of the Act

This product is not currently subject to a warning or ban under section 26 of the Building Act 2004.

8.5. Structural framing — steel chassis and frame

Designated Building Product — Class 1 (Regulation 5 / Schedule 1)

(a) Description

Structural framing — steel chassis and frame. Intended use: Steel chassis, floor frame, wall and roof frame, and structural connections that form the primary structure of the portable building and support loads during transport and in-service.

Welded structural steel frame comprising chassis, floor frame, wall frame and roof frame. Primary steel grades: Q235A (carbon structural steel) and Q355B (high-strength low-alloy structural steel). Main structural section sizes: 150mm × 150mm and 100mm × 150mm. Frame is galvanized and then finished with anti-corrosion spray paint.

(b) Product identifier

(c) Manufacturer and importer

Importer (responsible person) details are at section 5 of this document. Primary manufacturer details are at section 6. Sub-supplier and certificate-holder details are held on file by SGW Capital Limited and are provided on written request to a consent-related party.

(d) Building Code compliance statement

(i) Relevant Building Code clauses within the intended scope of use

B1 Structure, B2 Durability.

(ii) How this product contributes to compliance

- Applicable compliance options under section 19 of the Building Act 2004:

Alternative Solution under section 19(1)(b). Any Expanders unit used in work requiring building consent must be accompanied by site-specific structural assessment by a Chartered Professional Engineer (CPEng) practising in New Zealand, covering loadings under AS/NZS 1170, connection design, and tie-downs for the specific site.

- Standards or technical documents the product is manufactured to:
  - Q235A carbon steel: manufactured to GB/T 700 "Carbon structural steels" (China). Nearest international equivalent is S235JR under EN 10025.
  - Q355B high-strength low-alloy steel: manufactured to GB/T 1591 "High-strength low-alloy structural steels" (China). Nearest international equivalent is S355JR under EN 10025.
  - Welding performed at factory per Chinese fabrication standards (typical GB/T 3375 / GB 50661 series).
  - Galvanizing to Chinese hot-dip galvanizing practice, finished with an anti-corrosion spray paint topcoat.
  - TYGB has confirmed that it does not hold Chinese mill certificates or independent third-party test reports for the Q235A / Q355B steel or the galvanising as a separate deliverable for the importer. No equivalent AS/NZS mill certificate is held. Structural design for any consented NZ installation relies on site-specific engineering assessment by a Chartered Professional Engineer.
- Physical properties:

Main structural section sizes: 150×150mm and 100×150mm. Steel grades Q235A and Q355B. Galvanized substrate with anti-corrosion paint topcoat. Full load rating: NOT provided by manufacturer. Load performance must be determined by a New Zealand structural engineer on a project-specific basis.

- Intended use (restate):

Steel chassis, floor frame, wall and roof frame, and structural connections that form the primary structure of the portable building and support loads during transport and in-service.

(iii) Limitations on use within intended scope

The supplied steel frame has NOT been independently tested or certified as a structural system to AS/NZS 1170 loading requirements. Site-specific structural engineering assessment is required for any use in building work that requires a building consent in New Zealand. Not verified for high-seismic sites, high-wind zones or multi-storey stacking without project-specific engineering sign-off.

(e) Design requirements

Site foundations, anchorage and tie-downs must be designed by a Chartered Professional Engineer (CPEng) practising in New Zealand for projects requiring consent. The

Expanders/TYGB frame is not supplied with an engineering producer statement; the designer must satisfy themselves of adequacy for the intended site.

(f) Installation requirements

Frame and connections are factory-welded and assembled. Site placement on prepared foundations only, with tie-downs installed per the engineer's design.

(g) Maintenance requirements

Inspect exposed steel surfaces and welded connections at least annually for coating damage, rust or movement. Touch up any damage to the coating within 12 months to preserve durability. Particular attention to coastal and severe-exposure sites.

(h) Warnings and bans under section 26 of the Act

This product is not currently subject to a warning or ban under section 26 of the Building Act 2004.

8.6. Sanitary plumbing, drainage and tapware

Designated Building Product — Class 1 (Regulation 5 / Schedule 1)

(a) Description

Sanitary plumbing, drainage and tapware. Intended use: Internal water supply, waste drainage pipework, sanitary fixtures (WC, basin, shower), shower tray and tapware within the kitchen and bathroom of the portable building, terminating at the building boundary for site connection by a Certifying Plumber / Drainlayer.

Cold and hot water supply: polypropylene-random (PPR) pipe, 20mm nominal diameter. Waste drainage from kitchen and bathroom fixtures: PVC pipe, 50mm nominal diameter. Soil/toilet waste: PVC pipe, 110mm nominal diameter. Waste traps fitted under kitchen sink and bathroom basin: polypropylene (PP) S&P / P-trap combinations, 40mm–50mm. Sanitary fixtures: ceramic WC pan with cistern (Meiye Sanitary Ware brand range), wall-mounted hand shower (Wenzhou Haijun HAIJUN brand), SMC moulded shower tray (Shanghai Aojin SHOWERPAD brand). Tapware: factory-fitted mixer tapware to the kitchen and bathroom per unit specification (Ningbo Aimiduo Aimiduo brand range).

(b) Product identifier

Plumbing set — PPR20 fresh water; PVC50 kitchen/bathroom drainage; PVC110 toilet waste; PP waste traps at fixtures; ceramic WC pan; SMC shower tray; hand shower; factory-fitted mixer tapware

(c) Manufacturer and importer

Importer (responsible person) details are at section 5 of this document. Primary manufacturer details are at section 6. Sub-supplier and certificate-holder details are held on file by SGW Capital Limited and are provided on written request to a consent-related party.

(d) Building Code compliance statement

(i) Relevant Building Code clauses within the intended scope of use

G12 Water Supplies, G13 Foul Water, G3 Food Preparation, B2 Durability.

(ii) How this product contributes to compliance

- Applicable compliance options under section 19 of the Building Act 2004:

Alternative Solution under section 19(1)(b). Final connection of the supplied pipework and fixtures to the NZ-reticulated water supply and the site wastewater system must be performed by a Certifying Plumber / Drainlayer practising in New Zealand, who is required to satisfy themselves of compliance with G12/G13 and the relevant NZ plumbing standards for the installed work.

- Standards or technical documents the product is manufactured to:
  - **PPR potable-water pipe — LESSO brand, model PPR-21202** (Guangdong, China). Specific model confirmed by TYGB: S3.2 PPR Water Straight Pipe, DN20 × 2.8mm wall, Class 2 / 6 bar pressure rating. WaterMark Certificate of Conformity No. 080091-I01-R00 issued by CMI Certification Pty Ltd (JAS-ANZ accredited), evaluated to ISO 15874.2:2013 and ISO 15874.3:2013 (Plastics piping systems for hot and cold water installations — Polypropylene). Valid 08/08/2024 to 07/08/2029. The WaterMark scheme is recognised in New Zealand plumbing practice for potable water applications. Applicability to a specific Expanders unit is conditional on LESSO-branded pipe (model PPR-21202) actually being installed.
  - **PP waste traps — Ningbo Xinguan brand, models XG36136540 and XG36136550** (Zhejiang, China). Specific models confirmed by TYGB: XG36136540 used at the bathroom basin (S&P trap configuration); XG36136550 used at the kitchen sink (S&P + P-trap configuration). WaterMark Certificate of Conformity No. WMK26573 issued by Intertek SAI Global, evaluated to AS 2887-1993 (Plastics waste fittings). Valid 23/04/2020 to 22/04/2030. Covers the S&P trap combinations and P-trap fittings at kitchen and bathroom fixtures.
  - **Tapware — Aimiduo brand, model 8778.02** (Aimiduo (Ningbo, Zhejiang, China)). Specific model confirmed by TYGB: 8778.02 — 1/4-Turn Mini Cock — used as the kitchen mixer, the bathroom basin mixer AND the shower mixer on Expanders units (one model number across all three fixture positions). WaterMark Certificate of Conformity No. WM 74585 issued by ApprovalMark International Pty Ltd (JAS-ANZ accredited), evaluated to AS 3718:2021 (Water supply — Tap ware). Valid 17/11/2015 to 17/11/2030. The certificate schedule includes the 8778 series 1/4-turn cocks together with basin faucets (AMD-1011, AMD-1012), shower mixer (WGH-523), other 8777/8779 angle valves, and ball valves. Several Aimiduo angle-valve and ball-valve models (marked with *) also comply with NSF/ANSI/CAN 372-2020 lead-free requirements (≤0.25% lead on wetted surfaces).
  - **WC pan — Meiye / Cassanova / TWC brands** (Guangdong, China). WaterMark Certificate of Conformity No. WMKA2017 issued by SAI Global Certification Services Pty Ltd (JAS-ANZ accredited), evaluated to AS 1172.1-2014 (Water closets — Pans) and AS 1172.2-2014 (Water closets — Flushing devices and cistern inlet and outlet valves). Originally certified 27 August 2010; current certification 4 September 2020 (re-issued 5 September 2020); **valid through 26 August 2025**. The product schedule covers a wide range of Meiye-branded pans including 1001, 1032, 1036, 1039, 3882/3882S, 3887, 6002/6002S, 6003/6003S, 6005, 6009/6009S, 6010, 6011, 6012, and includes one-piece and two-piece suites, P-trap, S-trap, wall-hung and pedestal configurations. Renewal beyond 26 August 2025 is an open item with TYGB. **Water-efficiency labelling (WELS) — both registrations now current:** TYGB has supplied the renewed WELS register entries (24 April 2026). **WELS Registration LM04662 / Licence 1239** — model 8004S close-coupled lavatory registered to MEIYE SANITARYWARE, evaluated to AS/NZS 6400:2016, full flush 4.5 L, half flush 3 L, average flush 3.4 L (label),

4-star rating, **valid through 22 July 2026**. **WELS Registration LM04696 / Licence 1239** — model 8008P close-coupled lavatory, AS/NZS 6400:2016, similar flush profile and 4-star rating, **valid through 22 July 2026**. Where a WELS-rated WC is required by the consenting authority for the intended use, the actually-installed model must be confirmed on a per-order basis (TYGB has declined to provide build-order brand-fitment confirmation for this fixture).

- **Hand shower (AS/NZS 3662:2005) — HAIJUN brand** (Zhejiang, China). WaterMark Certificate of Conformity No. WM 74752 issued by ApprovalMark International Pty Ltd (JAS-ANZ accredited), evaluated to AS/NZS 3662:2005 (Performance of showers for bathing). Originally certified 28 September 2017; current certification 31 March 2022; **the AS/NZS 3662:2005 certificate as held expired on 28 September 2023 and TYGB confirmed (24 April 2026) it has not been renewed for this scope.** Product schedule covers HSS01-*** series hand showers branded HAIJUN, model 58.8639.1, rated 7.72 L/min, with finish options chrome (CHR), brushed nickel (BN), oil-rubbed bronze (ORB) and matte black (MB). The hand-shower assembly itself is therefore disclosed as relying on an expired AS/NZS 3662:2005 certificate; a current WaterMark hand-shower certificate from the actually-supplying manufacturer is required for any consented installation.
- **Tap-ware cartridges (AS 3718:2021) — HAIJUN brand** (Zhejiang, China). Separate, current WaterMark Certificate of Conformity **No. WM 74514** issued by ApprovalMark International Pty Ltd (JAS-ANZ accredited), evaluated to AS 3718:2021 (Water supply — Tap ware). Issued 25 December 2025, **valid through 25 December 2030**. Product schedule covers HAIJUN-branded quick-turn ceramic disc cartridges, models 805S115NF and 805S115NF-L. This certificate covers cartridge-level tap-ware compliance only; it does NOT renew or supersede the expired AS/NZS 3662:2005 hand-shower cert above.
- **Shower tray — SHOWERPAD brand** (Shanghai, China). White SMC moulded shower tray. **Intertek Test Verification of Conformity No. GZ12070482-1**, issued by Intertek Testing Services Shenzhen Ltd. (Guangzhou Branch), dated 26 July 2012, against EN 14527:2006+A1:2010 (E) — Shower trays for domestic purposes — and the Construction Products Directive 89/106/EEC (CE marking). The Intertek verification is a test-based statement only; it is not WaterMark certification, and applicability to a specific NZ installation must be confirmed by the installing Certifying Plumber. **Slip-resistance test for the same shower-tray range:** SGS-CSTC Standards Technical Services (Shanghai) Test Report No. SHHG1501001878BM dated 23 January 2015, tested to DIN 51097-1992 (Slip resistance determination — wet barefoot area / wet barefoot ramp). **Result: average angle of inclination 28.5° — Classification C** (the highest classification under DIN 51097-1992; ≥24° = Class C). DIN 51097 is the European wet-barefoot ramp test and is recognised in industry practice for showers and pool surrounds; it is not a Building Code D1 (Access — slip resistance) test in itself, and a project-specific D1 assessment under NZ practice may still be required by the consent designer for the bathroom floor as a system.
- **PVC drainage pipe (50mm and 110mm):** typically manufactured to GB/T 5836 (China). No WaterMark or independent third-party certificate is held for the PVC pipe itself. The waste-trap WaterMark certificate above does not certify the PVC pipe material.
- New Zealand standard equivalence assessment by the installing Certifying Plumber is required. Replacement or additional fittings installed on site must meet AS/NZS potable-water and drainage standards as appropriate.

- Physical properties:

Fresh water (PPR): LESSO PPR-21202, DN20 × 2.8mm wall, Class 2 / 6 bar. Kitchen/bathroom drainage (PVC): 50mm. Toilet waste (PVC): 110mm. Waste traps: Ningbo Xinguan PP — XG36136540 (basin S&P) and XG36136550 (kitchen S&P + P-trap), 40mm–50mm. WC: ceramic pan + cistern, Meiye 8004S (WELS LM04662, 4-star, 3.4 L average flush) or 8008P (WELS LM04696) — both WELS registrations valid to 22 July 2026. Hand shower: HAIJUN HSS01-series, 7.72 L/min (AS/NZS 3662:2005 cert WM 74752 expired 28/09/2023, not renewed). Shower tray: Shanghai Aojin SMC, slip resistance Class C (28.5°) per DIN 51097-1992. Tapware mixers (kitchen / basin / shower): all factory-fitted as Aimiduo 8778.02 — 1/4-Turn Mini Cock under WaterMark WM 74585 (AS 3718:2021), valid to 17/11/2030. Tap-ware cartridges: HAIJUN 805S115NF / 805S115NF-L under separate WaterMark WM 74514 (AS 3718:2021), valid to 25/12/2030.

- Intended use (restate):

Internal water supply, waste drainage pipework, sanitary fixtures (WC, basin, shower), shower tray and tapware within the kitchen and bathroom of the portable building, terminating at the building boundary for site connection by a Certifying Plumber / Drainlayer.

(iii) Limitations on use within intended scope

Site connection to NZ reticulated water supply and wastewater systems must be performed by a Certifying Plumber / Drainlayer registered with the NZ Plumbers, Gasfitters and Drainlayers Board (PGDB). The Certifying Plumber is responsible for confirming the installed materials meet NZ standards (including WaterMark / AS/NZS for potable water and drainage) in the specific installation and for issuing the required Producer Statement / Record of Work. The WaterMark and Intertek certificates above protect the importer only insofar as the sub-supplier's branded products are actually installed — substitution by TYGB on any given build order would void the cover for that unit; TYGB has declined to provide build-order brand-fitment confirmation for the ceramic WC, hand shower and shower tray, so a buyer or consent designer requiring per-order assurance must request that confirmation directly. The Wenzhou Haijun AS/NZS 3662:2005 hand-shower WaterMark certificate WM 74752 remains expired (28 September 2023) and TYGB has confirmed it has not been renewed for that scope; the separate AS 3718:2021 tap-ware cartridge certificate WM 74514 (issued 25 December 2025, valid to 25 December 2030) covers cartridge-level tap-ware only and does not satisfy AS/NZS 3662 for the hand-shower assembly. The Meiye WELS registrations LM04662 (model 8004S) and LM04696 (model 8008P) have both been renewed and are valid through 22 July 2026. The shower tray Intertek verification is a CE/EN-marking test verification, not a WaterMark/AS-NZS certificate, and does not by itself satisfy NZ plumbing requirements for the shower tray on a consented installation. The PVC pipe itself is not covered by any third-party certificate. Not suitable for off-grid use without site-specific service design.

(e) Design requirements

Rough-in services pre-installed at the factory to the bathroom and kitchen, with WC pan, basin, hand shower and SMC shower tray fitted. Site services (water supply, hot water cylinder connection, wastewater disposal) designed on a project-specific basis by the Certifying Plumber.

(f) Installation requirements

Final connection on site by a Certifying Plumber / Drainlayer registered with the New Zealand Plumbers, Gasfitters and Drainlayers Board (PGDB).

(g) Maintenance requirements

Inspect visible pipework and under-sink connections for leaks every 12 months. Clean SMC shower tray and ceramic WC pan with non-abrasive bathroom cleaners. Tapware cartridges and washers replaced on demand. Hand shower hoses inspected annually.

(h) Warnings and bans under section 26 of the Act

This product is not currently subject to a warning or ban under section 26 of the Building Act 2004.

8.7. Mechanical fixings

Designated Building Product — Class 1 (Regulation 5 / Schedule 1)

(a) Description

Mechanical fixings. Intended use: Main structural bolts, tie-down anchors and connection hardware used in the factory assembly and site tie-down of the portable building.

Galvanised steel plate structural fixings, principal plate size 110mm × 83mm. Used for main structural connections and tie-down points. Material: carbon steel with hot-dip galvanised finish (not stainless steel).

(b) Product identifier

Galvanised steel plate fixings, 110mm × 83mm (principal size)

(c) Manufacturer and importer

Importer (responsible person) details are at section 5 of this document. Primary manufacturer details are at section 6. Sub-supplier and certificate-holder details are held on file by SGW Capital Limited and are provided on written request to a consent-related party.

(d) Building Code compliance statement

(i) Relevant Building Code clauses within the intended scope of use

B1 Structure, B2 Durability.

(ii) How this product contributes to compliance

- Applicable compliance options under section 19 of the Building Act 2004:

Alternative Solution under section 19(1)(b). Tie-down and connection capacity for the specific installation site is confirmed by the project engineer at the design stage. Material and coating durability for the specific site exposure must also be assessed by the project engineer.

- Standards or technical documents the product is manufactured to:
    - Material: carbon structural steel plate, hot-dip galvanised to Chinese factory practice. No independent NZ test certificate is held for the fixings.
    - *[Chinese GB or ISO standard reference for the plate steel and galvanising to be inserted if held by TYGB]*
    - Site tie-downs in addition to factory fixings to be specified by the project engineer to AS/NZS 1170 loadings.
    - Galvanised (not stainless) steel fixings have a shorter service life in high-salt / marine / severe-exposure environments. For coastal New Zealand and Pacific

Islands installations, the project engineer must assess suitability and may specify upgraded fixings or additional coating/inspection regimes.

- Physical properties:

110mm × 83mm galvanised steel plate. Principal plate size; exact plate thickness and bolt sizes per TYGB factory specification.

- Intended use (restate):

Main structural bolts, tie-down anchors and connection hardware used in the factory assembly and site tie-down of the portable building.

(iii) Limitations on use within intended scope

The principal structural fixings are galvanised steel plate, NOT stainless steel. Galvanised fixings are generally suitable for inland and moderate-exposure New Zealand sites, but are NOT the recommended specification for severe/marine exposure or high-salinity Pacific Island sites without upgrade or an increased inspection/maintenance regime. The project engineer must specify appropriate fixings for the actual site exposure. Not rated for high-seismic loads without project-specific engineering.

(e) Design requirements

Project engineer confirms fixing capacity, tie-down layout, material suitability and coating life for the specific site. Upgrade to stainless or marine-grade fixings must be considered where the site is coastal, marine or otherwise severe-exposure.

(f) Installation requirements

Main factory fixings installed at the TYGB facility. Site tie-down fixings installed per the NZ engineer's foundation design.

(g) Maintenance requirements

Inspect all visible fixings at least annually — more frequently in coastal/severe exposure locations — for coating damage, corrosion (rust staining), or loosening. Touch up coating damage promptly. Replace any corroded fixing immediately. Because these fixings are galvanised (not stainless), proactive inspection is especially important in high-salt environments.

(h) Warnings and bans under section 26 of the Act

This product is not currently subject to a warning or ban under section 26 of the Building Act 2004.

8.8. External windows

Designated Building Product — Class 2 (Regulation 6 / Schedule 2)

(a) Product line description

External windows product line. Intended use: Glazed external window units installed in the building envelope, providing light, ventilation and weathertightness. Customised per order for size, configuration and location.

Aluminium-framed window joinery, double-glazed insulating glass unit (IGU). **Current principal sub-manufacturer (production from early 2025):** Hengshui Puzhi Doors and Windows Co., Ltd. (Hengshui, Hebei, China) — 78 Series sliding window, with IGU

manufactured by Dongying, China. **Historical / legacy reference:** Qingdao, China — GL50 (50mm frame depth) and GL76 (76mm frame depth) series, with IGU formerly supplied by Qingdao, China The seven independent Intertek AS 2047-2014 test reports for the GREENLIFE GL50/GL76 series are retained on file and remain valid evidence for any unit fitted with that historical joinery. Frame aluminium extrusion (both current and historical): 6063-T5 alloy. Frame colour, size and configuration customisable per order.

(b) Product line identifier

Aluminium double-glazed windows — current production: Hengshui Puzhi 78 Series sliding (Shandong Meibo IGU). Historical / legacy: GREENLIFE GL50 / GL76 (Australia Landson Glass IGU).

(c) Manufacturer and importer

See Section 2 of this document for importer (responsible person) details and Section 3 for the primary manufacturer (TYGB).

(d) Building Code compliance statement

(i) Relevant Building Code clauses within intended scope

B2 Durability, E2 External Moisture, H1 Energy Efficiency, F2 Hazardous Materials.

(ii) How the product line contributes to compliance

- Section 19 compliance options:

Alternative Solution under section 19(1)(b). For consented work the specific installed window joinery is matched by the consent designer to the applicable NZ wind-zone serviceability and ultimate design pressures per AS/NZS 1170.2 and verified against the Intertek test report below for the series actually installed.

- Standards or technical documents:
    - **Current production — Hengshui Puzhi 78 Series sliding window** (Hebei, China). **Intertek Test Report No. 250207001SHF-001 dated 10 March 2025**, conducted by Intertek Testing Services Shenzhen Ltd. (Shanghai Fengxian Branch — IAS-accredited TL-394, ILAC-MRA), to AS/NZS 4420.1-2016 method against AS 2047-2014 specification. **Result: pass against AS 2047-2014.** Serviceability Design Wind Pressure (SDWP) +1200 / -1200 Pa; Water penetration: no penetration at 300 Pa; Ultimate Strength Test Pressure -3000 Pa with no collapse. IGU in the as-tested sample supplied by Dongying, China. This is the joinery series fitted to Expanders units in current production.
    - All GREENLIFE aluminium joinery series referenced in this disclosure have been independently tested by Intertek Testing Services Shenzhen Ltd., Shanghai Fengxian Branch — an IAS-accredited testing laboratory, Accreditation No. TL-394, ILAC-MRA mutual-recognition. Each test was performed to AS/NZS 4420.1-2016 (Windows, external glazed, timber and composite doors — Methods of test, Part 1: Test sequence, sampling and test methods) with the specification standard AS 2047-2014 (Windows and external glazed doors in buildings, Amdt 2-2017). The GREENLIFE bullets below are retained as **historical evidence** for prior-build units; for current production the lead test is the Hengshui Puzhi 78 Series report above.
    - **GL50 Fixed Window** — Intertek Test Report 230825008SHF-001 issued 7 October 2023; test date 11 September 2023. Sample 1200W × 1500H × 50mm frame; IGU 19mm (5mm + 9mm Argon + 5mm tempered insulating glass); profile GL5001/GL5006, alloy 6063-T5. **Result: pass against AS 2047-2014.** Serviceability Design Wind Pressure (SDWP) ±2000 Pa;

Ultimate Strength Test Pressure ±3000 Pa with no collapse; Water penetration: no penetration at 600 Pa after 15 minutes; Air Infiltration 0.03 L/s·m² at ±75 Pa (Level: Low); Jamb deflection 1:3700 at +SDWP 2000 Pa.

- **GL50 Awning Window** — Intertek Test Report 230825008SHF-008 issued 7 October 2023. Sample 1200W × 1500H with sash 1164W × 1464H × 30.5mm; IGU 19mm (5mm + 9mm Argon + 5mm tempered). **Result: pass against AS 2047-2014.** SDWP ±1600 Pa; Water penetration: no penetration at 600 Pa; Air Infiltration Level: Low.
- **GL50 Sliding Window** — Intertek Test Report 230825008SHF-005 issued 7 October 2023. Sample 1200W × 1500H; twin sash 598W × 1425H × 24mm; IGU 19mm (5mm + 9mm Argon + 5mm tempered). **Result: pass against AS 2047-2014.** SDWP ±1600 Pa; Water penetration: no penetration at 200 Pa (noting this is the lowest water-penetration rating of the six window tests — sliding opening mechanism is the weather-performance limiting case); Air Infiltration Level: High. (AS 2047 "High" air-infiltration is a higher-leakage classification than "Low"; relevant to H1 Energy Efficiency calculation where air-tightness is modelled.)
- **GL76 Fixed Window** — Intertek Test Report 230627005SHF-004 issued 2 August 2023. Sample 1200W × 1500H × 76.4mm; IGU 24mm (6mm + 12mm Argon + 6mm tempered); profile series TW60–TW62, TD40, alloy 6063-T5. **Result: pass against AS 2047-2014.** SDWP ±2000 Pa; Water penetration: no penetration at 600 Pa; Air Infiltration Level: Low.
- **GL76 Awning Window** — Intertek Test Report 230627005SHF-002 issued 2 August 2023. Sample 1200W × 1500H × 76.4mm with sash 1145 × 1445 × 37.6mm; IGU 24mm (6mm + 12mm Argon + 6mm tempered); **Result: pass against AS 2047-2014.** SDWP ±2000 Pa; Water penetration: no penetration at 300 Pa; Air Infiltration Level: Low.
- **GL76 Sliding Window** — Intertek Test Report 230627005SHF-005 issued 2 August 2023. Sample 1200W × 1500H × 76.4mm; twin sash 598 × 1425 × 24mm; IGU 16mm (5mm + 6mm Argon + 5mm tempered — note: thinner IGU than the other GL76 windows); profile series TD02–TD04, TD22A, TD17D, TD18D, TD26D, TD27, TD40, FG8040, alloy 6063-T5. **Result: pass against AS 2047-2014.** Water penetration: no penetration at 150 Pa (lowest of any window in the GL76 set); Air Infiltration Level: Low.
- **NZ wind-zone mapping from the Intertek SDWP results** (informative, based on AS/NZS 1170.2 / NZS 3604 serviceability design wind-pressure thresholds used in NZ practice — the consent designer must perform the authoritative site-specific mapping). With the tested SDWP of ±2000 Pa on the GL50 Fixed, GL50 Awning (±1600 Pa), GL76 Fixed and GL76 Awning, and water-penetration results of 600 Pa on the fixed joinery, these joinery series are capable of being specified in NZ Medium, High and Very High wind zones subject to the consent designer's site-specific verification against the tested sizes. The GL50 and GL76 Sliding variants — with lower water-penetration thresholds (200 Pa and 150 Pa respectively) — are more restricted and should be used with caution in High/Very High wind zones unless a water-penetration upgrade is specified or the wall/sill detail is designed to accept the known limitation.
- Test-sample size caveat: each Intertek test was conducted on a specific sample size (1200 × 1500mm for windows; 900 × 2400mm for the hinged door — see section 8.9). In accordance with AS 2047-2014 / AS/NZS 4420 practice, the certificate applies to the tested size and to windows of the same joinery series at sizes not exceeding the tested dimensions unless covered by

an engineering extension. Customer-specified sizes larger than the tested sample require a project-specific engineering assessment by the consent designer.

- **IGU (insulating glass unit) supplier — disclosed honestly.** The IGU in the GREENLIFE GL50/GL76 historical Intertek test samples was supplied by *Qingdao, China* (as recorded on each test report). TYGB confirmed (24 April 2026) that production has switched away from Australia Landson Glass; the current IGU supplier on the Hengshui Puzhi 78 Series joinery is **Shandong Meibo Energy-Saving Technology Co. Ltd.** (Dongying, China) and the IGU in the as-tested 78 Series sample was Shandong Meibo. A separate PAS-Mark Certificate of Conformance (CSi Licence No. 7597, Licence No. 7597-2023-03-C2-R0) had been issued by Certification Solutions International Pty Ltd (JAS-ANZ accredited) to Shandong Meibo, attesting to manufacturing-process capability under AS 4666:2012 (Insulating glass units, Incl. Amdt 1:2018). That certificate was issued 26 March 2023 with expiry 19 March 2024 and is currently **expired**; TYGB confirmed (24 April 2026) that an AS 4666:2012 IGU certificate is **not currently available** from the supplier. The authoritative reference for the IGU in current production is therefore the AS 2047 joinery test on the Hengshui Puzhi 78 Series above (which includes the as-tested Shandong Meibo IGU). Where a consenting authority requires a stand-alone AS 4666:2012 IGU certificate, this is an open item that must be obtained from the IGU manufacturer before reliance on it for any consented installation.
- Thermal performance (U-value, SHGC, VLT) is not recorded on the AS 2047 test reports and is not claimed in this disclosure. Where the building is used in consented work requiring H1 Energy Efficiency compliance, these values must be sourced by the consent designer (typical values for double-glazed Argon-filled IGUs with the dimensions tested are published by WANZ / NZS 4218 modellers and can be used with the sub-manufacturer's confirmation).

- Physical properties:

Current production — Hengshui Puzhi 78 Series sliding window (Shandong Meibo IGU). Tested SDWP +1200 / -1200 Pa; water penetration no leakage at 300 Pa; ULS -3000 Pa, no collapse (Intertek 250207001SHF-001, 10 March 2025). **Historical GREENLIFE joinery (retained for prior-build evidence)** — profile alloy 6063-T5: GL50 (50mm frame, 19mm IGU 5/9Ar/5 tempered), GL76 (76mm frame, 24mm IGU 6/12Ar/6 tempered — GL76 Sliding 16mm IGU 5/6Ar/5 tempered). Tested sample sizes 1200 × 1500mm on all GREENLIFE windows. Tested SDWP: ±2000 Pa on the fixed and awning variants; ±1600 Pa on the GL50 sliding. Tested air infiltration: Low on all except GL50 Sliding (High). Water penetration: up to 600 Pa on fixed windows, 300 Pa on GL76 awning, 200 Pa on GL50 sliding, 150 Pa on GL76 sliding. Ultimate strength: ±3000 Pa, no collapse (GL50 Fixed tested result). U-value, SHGC and VLT: not recorded on any of the test reports; not claimed in this disclosure.

- Intended use (restate):

Glazed external window units installed in the building envelope, providing light, ventilation and weathertightness. Customised per order for size, configuration and location.

(iii) Limitations on the product line within intended scope

Customer-specified sizes exceeding the tested sample size (1200 × 1500mm for GREENLIFE; refer to Hengshui Puzhi report for 78 Series test size) require a project-specific engineering assessment by the consent designer. **Current production (Hengshui Puzhi 78 Series sliding):** SDWP ±1200 Pa with water penetration to 300 Pa is suitable for NZ Low / Medium / High wind zones at the tested size; Very High and Extra High wind zones require either a larger-sample test or a project-specific engineering verification. **Historical GREENLIFE GL50 / GL76 Sliding variants** have materially lower tested water-penetration

thresholds (200 Pa and 150 Pa respectively) than the fixed/awning windows — specify with appropriate flashing and sill-rebate details in High, Very High and Extra High wind zones. H1 Energy Efficiency thermal values (U-value, SHGC, VLT) are not on these test reports and cannot be claimed from them. The Shandong Meibo PAS-Mark AS 4666:2012 IGU certificate on file is expired (19 March 2024) and TYGB confirmed an AS 4666 IGU cert is not currently available; the authoritative IGU evidence in current production is the AS 2047 joinery test on the Hengshui Puzhi 78 Series, which includes the as-tested Shandong Meibo IGU. Not suitable for Extra High wind zones without additional engineering verification.

(e) Design requirements to support customised use

Customer-specified size, configuration (fixed / awning / sliding) and location. For consented work the consent designer selects from the tested GL50 or GL76 series, verifies the installed size against the tested size, and confirms wind-zone / water-penetration suitability for the site. Flashings and install details per GREENLIFE factory detail or NZ specifier's design.

(f) Installation requirements

Windows installed in the factory within the wall panels. Site installation limited to flashings at junctions and any replacement joinery supplied as add-ons. Where consented work is undertaken, the consent designer provides flashings and sill details appropriate to the site wind zone and wall build-up.

(g) Maintenance requirements

Clean frames and glass with mild detergent. Lubricate hardware annually (sliding tracks, hinges and stays). Inspect perimeter sealant every 24 months and re-seal if degraded. Visually inspect glazing seals annually; address any fogging of the IGU (which indicates seal failure) by replacement of the IGU.

(h) Warnings and bans under section 26 of the Act

This product line is not currently subject to a warning or ban under section 26 of the Building Act 2004.

8.9. External doors

Designated Building Product — Class 2 (Regulation 6 / Schedule 2)

(a) Product line description

External doors product line. Intended use: External entry doors forming part of the weathertight envelope. Customised per order for configuration (hinged entrance, sliding entrance, French doors, side-open) and size.

External door options. **Current production (from early 2025):** Hengshui Puzhi 95 Series sliding door (Hebei, China) — aluminium frame with double-glazed insulating glass unit (IGU supplied by Shandong Meibo Energy-Saving Technology Co. Ltd.), independently tested by Intertek to AS 2047-2014 (see below). Standard sliding-door sizes 1940mm × 2080mm and 1940mm × 2275mm (W × H), customisable per order. **Historical / legacy reference (retained for prior-build evidence):** GREENLIFE GL50 Hinged entrance door (Qingdao, China) — double-glazed tempered-glass panel — independently tested to AS 2047-2014 (Intertek 230825008SHF-004, see below). Side-sliding, side-opening and French-door variants are also available within both supplier ranges; where the variant is supplied without a direct AS 2047 test, the consent designer treats it as an Alternative Solution cross-referencing the analogous tested joinery. Frame aluminium extrusion (current and historical):

6063-T5. Frame colour, size and configuration customisable per order. (For completeness — internal bedroom doors are plywood/veneer construction at 820mm × 2030mm; these are internal joinery and are not external doors for the purposes of this disclosure.)

(b) Product line identifier

Aluminium external doors — current production: Hengshui Puzhi 95 Series sliding (Shandong Meibo IGU). Historical / legacy: GREENLIFE GL50 Hinged Door.

(c) Manufacturer and importer

See Section 2 of this document for importer (responsible person) details and Section 3 for the primary manufacturer (TYGB).

(d) Building Code compliance statement

(i) Relevant Building Code clauses within intended scope

B2 Durability, E2 External Moisture, H1 Energy Efficiency, F2 Hazardous Materials.

(ii) How the product line contributes to compliance

- Section 19 compliance options:

Alternative Solution under section 19(1)(b). Consent designer verifies performance on a project-specific basis where required, using the Intertek AS 2047 test report below for the hinged door or the analogous window-series test report for the sliding/French variant.

- Standards or technical documents:
  - **Current production — Hengshui Puzhi 95 Series sliding door** (Hebei, China). **Intertek Test Report No. 250207001SHF-002 dated 10 March 2025**, conducted by Intertek Testing Services Shenzhen Ltd. (Shanghai Fengxian Branch — IAS-accredited TL-394, ILAC-MRA), to AS/NZS 4420.1-2016 method against AS 2047-2014 specification. **Result: pass against AS 2047-2014.** Serviceability Design Wind Pressure ±600 Pa. IGU in the as-tested sample supplied by Dongying, China. This is the door joinery fitted to Expanders units in current production.
  - **Historical — GREENLIFE GL50 Hinged Door** — Intertek Test Report 230825008SHF-004 issued 7 October 2023; test date 11 September 2023. Sample: frame 900W × 2400H × 50mm; leaf 834W × 2334H × 58.2mm; IGU glazing area 674W × 2174H × 19mm thick (5mm + 9mm Argon + 5mm tempered insulating glass); IGU by Australia Landson Glass (Qingdao). **Result: pass against AS 2047-2014.** Serviceability Design Wind Pressure ±2000 Pa; Water penetration: no penetration at 600 Pa after 15 minutes; Air Infiltration Level: Low. Accredited by Intertek Shanghai Fengxian, IAS TL-394, to AS/NZS 4420.1-2016 as the test method. Retained as historical evidence for prior-build units fitted with this joinery.
  - Aluminium door-frame extrusion: 6063-T5 alloy.
  - Glass: tempered safety glass (double-glazed insulating unit, 5mm + 9mm Argon + 5mm tempered).
  - Side-sliding, side-opening and French-door variants where supplied without a direct AS 2047 test are treated as Alternative Solutions by the consent designer — cross-referencing the Hengshui Puzhi 95 Series sliding door test (current production) or the GREENLIFE GL50 Hinged Door / GL50/GL76 sliding window tests (historical) for analogous operation, and specifying flashings and sill details to address the limitations of sliding joinery in higher wind zones.

    - No verified U-value / SHGC / VLT figures are on the AS 2047 test report and none are claimed in this disclosure. Thermal performance for H1 must be determined by the consent designer if required.
    - The IGU in the as-tested Hengshui Puzhi 95 Series current-production sample was supplied by Dongying, China. The IGU in the historical GL50 Hinged Door sample was Qingdao, China The Shandong Meibo PAS-Mark AS 4666:2012 IGU certificate referenced in section 8.8 (issued 26 March 2023, expired 19 March 2024) is currently expired and TYGB confirmed an AS 4666 IGU cert is not currently available; the authoritative IGU evidence for current production is the AS 2047 test on the Hengshui Puzhi 95 Series above.
- Physical properties:

Current production — Hengshui Puzhi 95 Series sliding door (Shandong Meibo IGU): tested SDWP ±600 Pa, AS 2047-2014 pass (Intertek 250207001SHF-002, 10 March 2025). **Historical — GREENLIFE GL50 Hinged Door** tested configuration — frame 900 × 2400 × 50mm; leaf 834 × 2334 × 58.2mm; 19mm IGU (5/9Ar/5 tempered). Tested SDWP ±2000 Pa; water penetration 600 Pa; air infiltration Level: Low. Standard sliding-entrance-door sizes 1940×2080mm and 1940×2275mm available on separate configuration. Frame colour customisable.

- Intended use (restate):

External entry doors forming part of the weathertight envelope. Customised per order for configuration (hinged entrance, sliding entrance, French doors, side-open) and size.

(iii) Limitations on the product line within intended scope

Two AS 2047-2014 test certificates are on file: the current-production Hengshui Puzhi 95 Series sliding door (Intertek 250207001SHF-002, SDWP ±600 Pa) and the historical GREENLIFE GL50 Hinged Door (Intertek 230825008SHF-004, SDWP ±2000 Pa). The Hengshui Puzhi 95 Series tested SDWP of ±600 Pa is materially lower than the GL50 hinged door — for High and Very High wind-zone consented installations, the consent designer must verify the installed door against site design wind pressures and may require an upgraded specification, additional engineering extension, or a different test report. Other configurations (French, side-opening, fully-side-sliding etc.) where supplied without a direct AS 2047 test must be treated as Alternative Solutions and verified on a project-specific basis. Not suitable for Extra High wind zones without additional engineering verification. The Shandong Meibo PAS-Mark IGU certificate on file is expired (19 March 2024) and TYGB confirmed an AS 4666 IGU certificate is not currently available from the supplier; the authoritative IGU evidence in current production is the AS 2047 test on the Hengshui Puzhi 95 Series, which includes the as-tested IGU.

(e) Design requirements to support customised use

Customer-specified configuration (hinged / sliding / French / side-opening), size, and frame colour. Consent designers are directed to the Hengshui Puzhi 95 Series sliding door test report (Intertek 250207001SHF-002) for current-production sliding-entrance configurations, or the GREENLIFE GL50 Hinged Door test report (Intertek 230825008SHF-004) where a tested hinged-entry configuration is required and the historical GREENLIFE joinery is supplied. Install detail per the relevant sub-supplier factory detail; site flashings per NZ specifier's design.

(f) Installation requirements

Doors installed in the factory within the wall panels. Site work limited to flashings and any subsequent repair or upgrade.

(g) Maintenance requirements

Clean glass and frames with mild detergent. Lubricate hinges, sliding tracks and door hardware annually. Inspect perimeter and glazing seals every 24 months and re-seal where degraded. Address any IGU fogging (indicates seal failure) by replacement of the IGU.

(h) Warnings and bans under section 26 of the Act

This product line is not currently subject to a warning or ban under section 26 of the Building Act 2004.

9. Review, update and maintenance of this information

In accordance with Regulation 13 of the Building (Building Product Information Requirements) Regulations 2022, SGW Capital Limited will:

- Keep this information current on expanders.co.nz for as long as the product continues to be supplied in New Zealand
- Disclose any change to the URL where this information is published as soon as practicable
- Continue to maintain this information even if a product is superseded by an updated version or is no longer manufactured, for as long as product of this kind remains in use in New Zealand
- Review this information at least annually and whenever a material change occurs to the supply chain, a component, an applicable standard, or a warning/ban under section 26 of the Act

10. Contact for product information queries

Questions about the information in this disclosure can be directed to:

Email: info@expanders.co.nz

Postal: c/- Nexia Christchurch Limited, Level 4, 123 Victoria Street, Christchurch Central, Christchurch 8013, New Zealand

Website: https://expanders.co.nz

11. Index of designated building products disclosed (Appendix A)

For MBIE's reference, this document discloses building product information for the following designated building products used in this product range:

- 8.1 External wall cladding (Class 1)
- 8.2 Roofing (Class 1)
- 8.3 Thermal insulation (Class 1)
- 8.4 Internal wall and ceiling linings (Class 1)
- 8.5 Structural framing — steel chassis and frame (Class 1)
- 8.6 Sanitary plumbing, drainage and tapware (Class 1)

- 8.7 Mechanical fixings (Class 1)
- 8.8 External windows (Class 2 — Schedule 2)
- 8.9 External doors (Class 2 — Schedule 2)

12. Products to which these Regulations do not apply (Appendix B)

In accordance with Regulation 7, the following products supplied as part of an Expanders building are NOT designated building products under the BPIR Regulations and are disclosed under separate regimes. Supplementary supplier evidence held on file is noted alongside each item for transparency.

- Electrical fittings — including cabling, power points, conduit, switch boxes, wall switches and light fittings supplied by the manufacturer. These are covered by the Electricity (Safety) Regulations 2010 and are final-connected by a registered New Zealand electrician who issues the Certificate of Compliance (CoC) and Electrical Safety Certificate (ESC). **Supplementary evidence held on file (current cable supplier from 2025):** Shenzhen JZD Wire & Cable Co., Ltd. (brand JZD CABLE; Shenzhen, China) — SAA / RCM Certificate of Conformity No. SAA-250707-EA issued for TPS Flat Electric Cable (Building wiring cable) evaluated to AS/NZS 5000.2:2006 (Electric cables — Polymeric insulated, Part 2: For working voltages up to and including 450/750 V), V-90 insulation rating, conductor sizes 1.0 mm² – 16 mm² in 2-core / 2-core-with-earth / 3-core configurations. Issued 19 May 2025, valid through 19 May 2030. RCM mark applied. This supersedes the earlier Ningbo Qiaopu PVC NSW18298 reference for current production. The yellow protective wax-tube sleeving used over the cable run is supplied by TYGB and TYGB has confirmed (24 April 2026) that no SAA / RCM certificate is held for this sleeving — it is purely a mechanical sleeve over the (separately certified) JZD cable and does not itself carry an Australian/NZ electrical certification.
- Construction sealant — TYGB has confirmed (24 April 2026) the principal site/factory sealant in current use is **Yongan-brand silicone sealant**, applied at: window-perimeter sealing (Hengshui Puzhi joinery), bamboo-board joints, external cladding panel joints, indoor wall/ceiling gaps, and SPC floor edge sealing. This sealant is supplied as a finishing/sealing accessory and is not a designated building product under the BPIR Regulations; the consent designer / installer is responsible for confirming sealant suitability for any consented installation. The silicone sealant referenced inside the Intertek AS 2047 window/door tests for the historical GREENLIFE joinery was Chengdu Guibao 563 Neutral, which is the as-tested sealant for those test reports only.
- Gas appliances and fittings — covered by the Gas Act 1992 (where applicable).
- Structural timber framing — NOT used. Expanders buildings manufactured by TYGB are all-steel construction. This item is listed in Regulation 5 as an example Class 1 product but does not apply to this product range.
- Temporary products that do not form part of the completed building.