



BRANZ Appraised

Appraisal No. 869 [2025]

MULTICOM® WALL PANEL SYSTEM

Appraisal No. 869 [2025]

This Appraisal replaces BRANZ
Appraisal No. 869 [2019]

Amended 02 February 2026



BRANZ Appraisals

Technical Assessments of
products for building and
construction.



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Product

- 1.1 The MultiCom® Wall Panel System is a pre-finished wall lining system that incorporates panels manufactured from compact laminates.

Scope

- 2.1 The MultiCom® Wall Panel System has been appraised for use as an interior wall lining in new or existing buildings, for the following:
 - where non-structural (non-bracing), non-fire rated and acoustically unrated interior linings are specified; and,
 - wet areas such as ablution blocks, shower rooms, toilet blocks and bathrooms where moisture-resistant materials are required; and,
 - areas where hygiene is of particular importance and easy-to-clean surfaces are required; and,
 - other areas where low maintenance pre-finished wall lining systems are specified.

Building Regulations

New Zealand Building Code (NZBC)

- 3.1 In the opinion of BRANZ, the MultiCom® Wall Panel System, if designed, used, installed and maintained in accordance with the statements and conditions of this Appraisal, will meet or contribute to meeting the following provisions of the NZBC:

Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2 and B1.3.4. The MultiCom® Wall Panel System meets the requirements for loads arising from self-weight and impact [i.e. B1.3.3 (a) and (j)]. See Paragraphs 8.1-8.3.

Clause B2 DURABILITY: Performance B2.3.1 (b) 15 years and B2.3.1 (c) 5 years. The MultiCom® Wall Panel System meet these requirements. See Paragraphs 9.1 and 9.2.

Clause E3 INTERNAL MOISTURE: Performance E3.3.4, E3.3.5 and E3.3.6. The MultiCom® Wall Panel System meets or contributes to meeting these requirements. See Paragraphs 13.1 and 13.2.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. The MultiCom® Wall Panel System meets this requirement.

Clause G3 FOOD PREPARATION AND THE PREVENTION OF CONTAMINATION: Performance G3.3.2 (a) and (b). The MultiCom® Wall Panel System contributes to meeting these requirements. See Paragraph 14.1.



Technical Specification

MultiCom® Panels

- 4.1 MultiCom® panels are compact laminate panels made from thermo-setting resins. They have a phenolic resin core that is pre-finished on both sides with a melamine resin surface finish.
- 4.2 MultiCom® panels come in size of 2,450 x 1,850 mm, are 6 mm thick and have a density of 1,440 kg/m³. They come in a range of colours. The panels are manufactured to the following tolerances:
 - length and width: -0 / +10 mm;
 - thickness: ±0.4 mm.

Accessories

- 4.3 Accessories used with the MultiCom® Wall Panel System that are supplied by Resco Limited are:
 - **Jointers** - these are aluminium for joining of the MultiCom® panels, and include internal corner, external corner, end capping, two angle returns and H-jointer profiles. They are available as silver anodised or powder-coated.
- 4.4 Accessories used with the MultiCom® Wall Panel System that are supplied by Resco Limited or others are:
 - **Adhesive** - Gorilla 240FC MS Adhesive.
 - **Adhesive activator** - Gorilla 696 Surface Activator.
 - **Double sided tape** - Gator tape, 12 mm x 2 mm x 30 m.
 - **Timber battens** - H3.1 or H1.2 treated, 40 x 18 mm radiata pine.
 - **Vent strip** - PVC vent strip, 16 mm wide.
 - **Fixings** - 32 mm x 8 g stainless steel countersunk screws.
 - **Building underlay** - wall underlay complying with the requirements of NZBC Clause E2/AS1.

Handling and Storage

- 5.1 MultiCom® panels are supplied for shipping strapped on pallets overwrapped with a waterproof covering.
- 5.2 Long-term storage of MultiCom® panels must be under cover, away from direct sunlight and high temperatures, on evenly spaced bearers to keep them flat and dry. Panels must be lifted and not dragged off the stack.

Technical Literature

- 6.1 This Appraisal must be read in conjunction with:
 - Resco MultiCom Step-by-step Installation Guide, dated October 2025.
 - MultiCom Product Technical Statement, dated August 2025.
 - MultiCom Product Guide, dated August 2025.
- 6.2 All aspects of design, use, installation and maintenance contained in the Technical Literature and within the scope of this Appraisal must be followed.

Design Information

General

- 7.1 MultiCom® panels are impervious to moisture and are resistant to water, steam, typical hygienic cleaning chemicals and materials, and abrasion. The panels are primarily intended for use as wall linings in wet areas such as ablution blocks, shower rooms, toilet blocks, bathrooms and kitchens. The panels are also intended for use in high-hygiene areas where the Building Code and health regulations require the use of water and chemical-resistant lining materials which are impervious, easily cleaned and maintained, and are capable of withstanding demanding hygienic cleansing operations. In wet and food processing areas, it is essential that sealant be used with jointers to ensure joints are impervious to moisture.
- 7.2 The MultiCom® Wall Panel System may also be used in other areas to provide decorative pre-finished linings with a low maintenance requirement. The linings must not be used in areas listed in NZBC Acceptable Solution G3/AS1, such as electroplating and lead processing areas, or mortuaries.

Installation Information

- 7.3 The MultiCom® Wall Panel System can be fixed directly over:
- new timber or steel wall framing;
 - existing timber or steel wall framing after removal of existing linings;
 - new or existing wall linings;
 - new or existing concrete or concrete masonry.
- 7.4 In wet areas timber battens at maximum 600 mm centres are used for support. In non-wet areas, the MultiCom® panels may be fixed directly to timber framing at maximum 600 mm centres. A combination of proprietary aluminium jointers and adhesive are used to hold the panels in place. No mechanical fasteners are to be used to fix panels. In all applications, continuous support must be provided at all panel edges, including around 'cut-outs' for plumbing fixtures and other services. Wall fixtures must only be fixed directly to the underlying supports.
- 7.5 Joints between baths, basins, tubs and the linings must be in accordance with the requirements of NZBC Acceptable Solution E3/AS1, or to another method meeting the requirements of NZBC Clause E3. The jointers are reasonably watertight, and any water that does pass through is drained out the cavity behind.

Wet Areas

- 7.6 Wet areas are spaces where sanitary fixture and sanitary appliances are located such as bathrooms, toilets, laundries and kitchens. The two general categories of wet areas are as follows:
- **Water Splash** - These are areas subject to intermittent splashing of water such as around baths, vanities, tubs and sinks.
 - **Shower Areas** - These are areas subject to frequent and heavy splash such as enclosed showers, unenclosed shower zones and showers over baths.
- 7.7 The MultiCom® Wall Panel System may be used in both wet area categories described above. Installation of the panels on these areas must be in accordance with the Technical Literature.

Framing and supports

- 7.8 When fixed directly over new or existing wall framing, supports must be at 600 mm maximum centres. In all buildings, timber framing for walls and ceilings must have a moisture content of less than 18%. Battens must be 40 x 18 mm machine gauged, H3.1 or H1.2 treated timber, and kiln dried to a moisture content of less than 18%.
- 7.9 Existing wall framing must be sound, free of borer [or similar insect infestations] and decay. Damaged framing must be replaced.
- 7.10 Care must be taken with the layout of all framing and supports, in order to ensure that framing will be at appropriate positions for the fixing of jointers.

Concrete and masonry substrates

- 7.11 Existing concrete and masonry substrates must be sound and capable of holding the fixings for the battens.

Structure

Mass

- 8.1 The mass of MultiCom® panels is approximately 8.1 kg/m².

Bracing

- 8.2 The MultiCom® Wall Panel System has not been appraised for bracing applications.

Impact

- 8.3 MultiCom® panels will withstand typical soft body impacts normally expected in areas where the product will be used. The panels may be damaged by hard body impacts such as hammer blows. The possibility of impacts damaging panels must be considered at the design stage, especially in public, institutional, or educational buildings which are prone to robust behaviour or vandalism. The manufacturer must be consulted for advice on a suitable means of providing protection in these buildings. In hygiene areas, the surface finishes must also be protected from likely impact, and not be subjected to chipping in order to comply with NZBC Acceptable Solution G3/AS1.

Durability

- 9.1 With normal maintenance, the MultiCom® Wall Panel System will meet the performance requirements of NZBC B2.3.1 (b) 15 years, when used in shower areas, and NZBC B2.3.1 (c) 5 years, in other areas, as given in NZBC Acceptable Solution B2/AS1.

Serviceable Life

- 9.2 If properly maintained, the MultiCom® Wall Panel System will remain serviceable for at least 15 years. This statement assumes that mouldings and flanges to wall mounted plumbing or sanitary fixtures are detailed to prevent the passage of moisture behind the panels, especially in critical areas such as around baths, shower trays, wash basins and sinks.

Maintenance

- 10.1 Cleaning must be carried out using a soft cloth lubricated with non-abrasive mild detergent or soap solutions. Solvents may be used to clean any stains, but must be washed off immediately. Abrasive cleaners must not be used. Refer to the Technical Literature for more information.
- 10.2 Mouldings, flashings and sealants used around baths, urinals, shower trays, wash basins or sinks must be maintained in a serviceable condition in order to ensure joints are impervious to moisture.

Prevention of Fire Occurring

- 11.1 Separation or protection must be provided to the MultiCom® Wall Panel System from heat sources such as fireplaces, heating appliances and chimneys. NZBC Acceptable Solutions C/AS1 and C/AS2 provide methods for separation and protection of combustible materials from heat sources.

Control of Internal Fire and Smoke Spread

- 12.1 The MultiCom® Wall Panel System, without an applied paint or wallpaper finish, achieves a Group Number of 3. Refer to NZBC Acceptable Solution C/AS1 or C/AS2 to determine where the MultiCom® Wall Panel System may be used according to its Group Number. Support and sealing of the substrate have not been considered and are outside of the scope of this Appraisal.
- 12.2 A lower Group Number may be achieved when used with a tested finishing system. The material Group Number for the complete lining system must be obtained from the supplier of the finish product or system.

Internal Moisture

- 13.1 MultiCom® panels are impervious to moisture, and can be easily cleaned.
- 13.2 The MultiCom® Wall Panel System is a modular lining system meeting the requirements of NZBC Acceptable Solution E3/AS1.

Food Preparation and Prevention of Contamination

- 14.1 The MultiCom® Wall Panel System, when installed in accordance with the requirements of this Appraisal and the Technical Literature, is suitable for installing next to appliances and facilities as specified by NZBC Acceptable Solution G3/AS1, for wall linings in domestic facilities, and for wall linings in commercial and industrial facilities.

Installation Information

General

- 15.1 Installation must be in accordance with the instructions given in this Appraisal and the Technical Literature.

Preparation

- 15.2 Existing linings may be removed or, if sound, retained. If the linings are removed, damaged framing must be replaced and vertical supports provided at maximum 600 mm centres where they do not exist.
- 15.2 Wipe clean with the adhesive activator, both the battens and also the MultiCom® panel where the adhesive is being applied.
- 15.3 All supporting substrates [concrete, masonry, new framing or existing framing and linings] must form a basis for providing a true and level surface for the MultiCom® Wall Panel System. The procedures for fixing the MultiCom® Wall Panel System are the same for both new and retro-fitting applications.

System Installation

- 15.4 It is recommended that the installer dry fit each sheet before final fixing to ensure good fit.
- 15.5 It is critical to allow the 3 mm expansion clearance between the extrusion and the panel being installed to allow for future movement. Refer to the Technical Literature for details.
- 15.6 The double sided tape, activator and adhesive are applied to the framing or battens and the panel fixed into position. The double sided tape holds the panel until the adhesive has cured.
- 15.7 Ensure dust does not accumulate following application of the adhesive activator. This will prevent the adhesive from bonding with the panel.
- 15.8 Take care when applying the adhesive to not let it spill onto the double sided tape. This could cause the panel to move.

Basis of Appraisal

The following is a summary of the technical investigations carried out.

Tests

- 16.1 A series of tests has been carried out on MultiCom® panels by BRANZ to assess durability and material properties of the panels and their performance with the specified adhesive.
- 16.2 The MultiCom® Wall Panel System, without an applied paint or wallpaper finish, has been tested to ISO 5660 and achieved a Group Number of 3 in accordance with NZBC Verification Method C/VM2.



Other Investigations

- 17.1 An assessment of the durability of MultiCom® Wall Panel System has been made by BRANZ technical experts.
- 17.2 The use of MultiCom® panels as wall linings over many years both in New Zealand and overseas has been noted.
- 17.3 Site inspections of the MultiCom® Wall Panel System have been undertaken by BRANZ.

Quality

- 18.1 The quality of the manufacture of the MultiCom® panels has been assessed by a certified body as meeting the requirements of ISO 9001 certification. This has been reviewed by BRANZ and found to be satisfactory.
- 18.2 Quality of materials, components and accessories supplied by Resco Limited is the responsibility of Resco Limited.
- 18.3 The quality of installation on-site of components and accessories supplied by Resco Limited is the responsibility of the installer.

Sources of Information

- ISO 5660-1:2002 Reaction-to-fire tests - Heat release, smoke production and mass loss rate.
- Ministry of Business, Innovation and Employment Record of amendments - Acceptable Solutions, Verification Methods and handbooks.
- The Building Regulations 1992.

Amendments

Amendment No.1, dated 02 February 2026

This Appraisal has been amended to reflect the changes made to the NZBC compliance documentation and to update the Technical Literature references.



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08 April 2025

MULTICOM® WALL PANEL
SYSTEM



In the opinion of BRANZ, **MultiCom® Wall Panel System** is fit for purpose and will comply with the Building Code to the extent specified in this Appraisal provided it is used, designed, installed and maintained as set out in this Appraisal.

The Appraisal is issued only to **Resco Limited**, and is valid until further notice, subject to the Conditions of Appraisal.

Conditions of Appraisal

1. This Appraisal:
 - a) relates only to the product as described herein;
 - b) must be read, considered and used in full together with the Technical Literature;
 - c) does not address any Legislation, Regulations, Codes or Standards, not specifically named herein;
 - d) is copyright of BRANZ.
2. **Resco Limited:**
 - a) continues to have the product reviewed by BRANZ;
 - b) shall notify BRANZ of any changes in product specification or quality assurance measures prior to the product being marketed;
 - c) abides by the BRANZ Appraisals Services Terms and Conditions;
 - d) warrants that the product and the manufacturing process for the product are maintained at or above the standards, levels and quality assessed and found satisfactory by BRANZ pursuant to BRANZ's Appraisal of the product.
3. BRANZ makes no representation or warranty as to:
 - a) the nature of individual examples of, batches of, or individual installations of the product, including methods and quality of work;
 - b) the presence or absence of any patent or similar rights subsisting in the product or any other product;
 - c) any guarantee or warranty offered by **Resco Limited**.
4. Any reference in this Appraisal to any other publication shall be read as a reference to the version of the publication specified in this Appraisal.
5. BRANZ provides no certification, guarantee, indemnity or warranty, to **Resco Limited** or any third party.

For BRANZ

Claire Falck

Chief Executive

Date of Issue:

08 April 2025