



**SPECIFY WITH
CONFIDENCE**

BRANZ Appraisals

**Technical Assessments of
products for building and
construction**

**BRANZ
APPRAISAL
CERTIFICATE
No. 445 (2005)**

This Certificate replaces BRANZ
Appraisal Certificate No. 445 (2004)
issued 23 February 2004

**MPT
MESHCLAD
CAVITY SYSTEM**

**Mineral Plaster Technologies
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Product

1.1 MPT Meshclad is a cavity-based Exterior Insulation and Finishing System (EIFS) wall cladding. It is an external wall cladding system for residential and light commercial type buildings where domestic construction techniques are used.

1.2 The system consists of expanded polystyrene (EPS) sheets fixed over polystyrene battens to form the cavity. The coating system consists of 5-10 mm thickness of fibreglass mesh reinforced plaster, which is finished with a latex exterior paint system. The plaster finish can be textured to give different appearances, such as sponge, float, adobe or scratch (medium or coarse).

1.3 The system incorporates a primary and secondary means of weather resistance (first and second line of defence) against water penetration by separating the cladding from the external wall framing with a nominal 20 mm drained cavity.



Scope

2.1 MPT Meshclad has been appraised as an external wall cladding system for buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1; and,
- constructed with timber framing complying with the NZBC; and,
- with a risk score of 0-20, calculated in accordance with NZBC Acceptable Solution E2/AS1, Table 2; and,
- situated in NZS 3604 Building Wind Zones up to, and including 'Very High'.

2.2 MPT Meshclad has also been appraised as an external wall cladding system for steel framed buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS1, with regards to building height and floor plan area; and,
- constructed with steel framing complying with the NZBC; and,
- with a risk score of 0-20, calculated in accordance with NZBC Acceptable Solution E2/AS1, Table 2; and
- situated in NZS 3604 Building Wind Zones up to, and including 'Very High'.

2.3 MPT Meshclad must only be installed on vertical surfaces (except for tops of parapets, sills and balustrades, which must have a minimum 10° slope and be waterproofed in accordance with the Technical Literature).

2.4 The system is appraised for use with aluminium window and door joinery that is installed with vertical jambs and horizontal heads and sills. (*The Appraisal of MPT Meshclad relies on the joinery meeting the requirements of NZS 4211 for the relevant Building Wind Zone.*)

2.5 Installation of components and accessories supplied by Mineral Plaster Technologies Limited and approved applicators must be carried out only by Mineral Plaster Technologies Limited approved applicators.

Building Regulations

New Zealand Building Code (NZBC)

3.1 In the opinion of BRANZ, MPT Meshclad Cavity System if designed, used, installed and maintained in accordance with the statements and conditions of this Certificate, will meet the following provisions of the NZBC:

Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2 and B1.3.4. MPT Meshclad meets the requirements for loads arising from self-weight, earthquake, wind, human impact and creep [i.e. B1.3.3 (a), (f), (h), (j) and (q)]. See Paragraphs 10.1 - 10.4.

Clause B2 DURABILITY: Performance B2.3.1 (b), 15 years and B2.3.1 (c), 5 years. MPT Meshclad meets these requirements. See Paragraph 11.1 and 11.2.

Clause E2 EXTERNAL MOISTURE: Performance E2.3.2. MPT Meshclad meets this requirement. See Paragraphs 16.1 - 16.5.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. MPT Meshclad meets this requirement and will not present a health hazard to people.

3.2 This Certificate appraises an **Alternative Solution** in terms of New Zealand Building Code compliance.

Technical Specification

4.1 System components and accessories supplied by Mineral Plaster Technologies Limited are as follows:

Polystyrene

- Cavity battens are manufactured from high density (Class H) expanded polystyrene (EPS) with an approximate density of 24 kg/m³. The battens are 20 mm thick by 50 mm wide and are produced either solid or the top edge is bevelled and the face is grooved to allow air movement. All battens are supplied 1200 mm long.
- EPS sheets are Class S, 40 or 60 mm thick with an approximate density of 16 kg/m³ or Class H, 40 or 60 mm thick with an approximate density of 24 kg/m³. The sheets are supplied in lengths ranging from 2.4 to 3.6 m x 1.2 m wide and are manufactured to meet the requirements of AS 1366 Part 3.

Plasters

- *Bondcoat* is a Portland cement-based adhesive render comprising a fine or very fine sand and mineral additives. It is trowel or pump applied as the bonding coat in a 2-3 mm layer followed by the embedment of fibreglass mesh reinforcement in the outer surface. Bondcoat is supplied in 25 kg bags.
- *Skimcoat* is a Portland cement-based plaster comprising a fine or very fine sand and mineral additives. It is trowel or pump applied as a levelling coat in a 1-5 mm layer. Skimcoat is supplied in 25 kg bags.
- *Adobecoat*, *Floatcoat*, *Spongecoat*, *Scratchcoat Medium* and *Scratchcoat Coarse* are Portland cement-based finishing plasters comprising Silica sand, hydrated lime and mineral additives. The plasters are trowel or pump applied as finishing coats and are worked during curing to achieve the required finish. The plasters are supplied in 25 kg bags.

Accessories

- Reinforcing mesh - alkali-resistant fibreglass mesh with a nominal mesh size of approximately 4 mm square and a weight of 150 g/m² for use in domestic and light commercial situations. Where a greater level of impact resistance is

required, 340 g/m² alkali-resistant fibreglass mesh with a nominal mesh size of approximately 6 x 5 mm is available.

- uPVC components - sill flashing, jamb flashing and joinery head drainage strip, base caps, corner beads, ventilated cavity closure, Z-flashing and horizontal and vertical control joint flashings.
- EPS sheet fixings (timber frame) - 110 x 3.80 mm (for 60 mm EPS) hot-dip galvanised flat head nails with MPT washers.
- MPT washers - 40 mm diameter PVC.

4.2 Accessories used with the system which are supplied by the applicator are:

- Waterproof membrane tapes - tapes covered by a valid BRANZ Appraisal Certificate for use as waterproofing membranes over tops of plastered parapets, balustrades, fixing blocks and the like.
- Flexible sealant - sealant complying with NZBC Acceptable Solution E2/AS1, or sealant covered by a valid BRANZ Appraisal Certificate for use as a weather sealing sealant for exterior use.
- Cavity batten fixings (timber frame) - 30 x 2.5 mm hot-dip galvanised flat head nails.
- EPS sheet fixings (timber frame) - 90 x 3.55 mm (for 40 mm EPS) hot-dip galvanised flat head nails with MPT washers. (Note: Hot-dip galvanising must comply with AS/NZS 4680.)
- Cavity batten and EPS sheet fixings (steel frame) - Self-drilling AS 3566 Corrosion Class 3 6-gauge screws in mild or moderate industrial or marine environments and Corrosion Class 4 6-gauge screws in severe marine environments, with MPT washers. The screw length must allow a 10 mm minimum penetration through the steel framing.
- Building wrap support - polypropylene strap for securing the building wrap in place and preventing bulging of the bulk insulation into the drainage cavity. (Note: additional vertical battens may also be installed to provide support.)
- Adhesive - EPS compatible adhesive for gluing uPVC components to the EPS sheets as and where required.

4.3 Accessories used with the system which are supplied by the building contractor are:

- Building wrap - paper or wrap complying with NZBC Acceptable Solution E2/AS1 Table 23, or breather-type membranes covered by a valid BRANZ Appraisal Certificate for use as wall wraps.
- Flexible sill and jamb flashing tapes - flexible flashing tapes complying with NZBC Acceptable Solution E2/AS1 Paragraph 4.3.11, or flexible flashing tapes covered by a valid BRANZ Appraisal Certificate for use around window and door joinery openings.
- Window and door trim cavity airseal - air seals complying with NZBC Acceptable Solution E2/AS1 Paragraph 9.1.6, or self-expanding, moisture cure polyurethane foam air seals covered by a valid BRANZ Appraisal Certificate suitable for use around window, door and other wall penetration openings.
- Joinery head flashings - as supplied by the joinery manufacturer or contractor.

Paint System Specification

- A latex exterior paint system complying with any of Parts 7, 8, 9 or 10 of AS 3730 must be used over the finishing plasters to make the system weathertight and give the desired finish colour to exterior walls. Paint colours must have a light reflectance value of 40% minimum regardless of gloss value. Proprietary paint systems have not been assessed, and are outside the scope of the Appraisal Certificate.

Handling and Storage

5.1 Handling and storage of all materials supplied by Mineral Plaster Technologies Limited or the approved applicator, whether on or off site, is under the control of Mineral Plaster Technologies Limited approved applicators. Dry storage must be provided on site for the fibreglass mesh and bags of plaster. EPS sheets and battens, uPVC flashings and profiles must be protected from direct sunlight and physical damage, and should be stored flat and under cover.

5.2 Handling and storage of all materials supplied by the building contractor, whether on or off site, is under the control of the building contractor. Materials must be handled and stored in accordance with the relevant manufacturer's instructions.

5.3 Bags of Meshclad plaster must be used within the designated shelf life of six months from date of manufacture.

Technical Literature

6.1 Refer to the Appraisals listing on the BRANZ website for details of the current Technical Literature for MPT Meshclad Cavity System. The Technical Literature must be read in conjunction with this Certificate. All aspects of design, use, installation and maintenance contained in the Technical Literature and within the scope of this Certificate must be followed.

Design Information

Framing

Timber Treatment

7.1 Timber wall framing behind MPT Meshclad must be treated as required by NZS 3602.

Timber Framing

7.2 Timber framing must comply with NZS 3604 for buildings or parts of buildings within the scope limitations of NZS 3604. Buildings or parts of buildings outside the scope of NZS 3604 must be to a specific design in accordance with NZS 3603 and NZS 4203. Where specific design is required, the framing must be of at least equivalent stiffness to the framing provisions of NZS 3604. In all cases studs must be at maximum 600 mm centres. Dwargs must be fitted flush between the studs at maximum 800 mm centres.

7.3 Timber framing must have a maximum moisture content of 24% at the time of the cladding application. *(If EPS sheets are fixed to framing with a moisture content of greater than 24% problems may occur at a later date due to excessive timber shrinkage.)*

Steel Framing

7.4 Steel framing must be to a specific design meeting the requirements of the NZBC.

7.5 The minimum framing specification is 'C' section studs and nogs of overall section size of 75 mm web and 32 mm flange. Steel thickness must be a minimum 0.55 mm.

7.6 Studs must be at maximum 600 mm centres. Dwargs must be fitted flush between the studs at maximum 800 mm centres.

EPS Sheet Setout

7.7 All vertical EPS sheet edges must be supported and fixed through the cavity battens to the framing. Horizontal sheet edges must be supported at fixing locations with cavity spacers 100 mm long maximum in accordance with the requirements

of NZBC Acceptable Solution E2/AS1, Paragraph 9.1.8.2(f). At the base of the wall, the EPS sheets must hang 50 mm below the supporting framing.

7.8 Additional framing will be required at soffits, internal and external corners and window and door openings for the support and fixing of sheet edges.

General

8.1 Punchings in the ventilated cavity closure provide a minimum ventilation opening area of 1000 mm² per lineal metre of wall in accordance with the requirements of NZBC Acceptable Solution E2/AS1, Paragraph 9.1.8.3(b).

8.2 The ground clearance to finished floor levels as set out in NZS 3604 must be adhered to at all times. At ground level, paved surfaces, such as footpaths, must be kept clear of the bottom edge of the cladding system by a minimum of 100 mm, and unpaved surfaces by 175 mm in accordance with the requirements of NZBC Acceptable Solution E2/AS1, Table 18.

8.3 At balcony, deck or roof/wall junctions, the bottom edge of the MPT Meshclad system must be kept clear of any adjacent surface, or above the top surface of any adjacent roof flashing by a minimum of 35 mm in accordance with the requirements of NZBC Acceptable Solution E2/AS1, Paragraph 9.1.3.6.

8.4 Unlined gables and walls must incorporate a rigid sheathing or an air barrier which meets the requirements of NZBC Acceptable Solution E2/AS1, Table 23. Where rigid sheathings are used, the fixing length must be increased by a minimum of the thickness of the sheathing.

8.5 Where penetrations through the MPT Meshclad Cavity System are wider than the cavity batten spacing, allowance must be made for airflow between adjacent cavities. A minimum 10 mm gap must be left between the bottom of the vertical cavity batten and the flashing to the opening.

8.6 Where the system abuts other cladding systems, designers must detail the junction to meet their own requirements and the performance requirements of the NZBC. These details are outside the scope of this Certificate.

Electrical Cables

8.7 PVC sheathed electrical cables must be prevented from direct contact with the polystyrene. When cables must penetrate the EPS for exterior electrical connections, the cable must be directly supported by passing through an electrical conduit.

Control Joints

9.1 Control joints must be constructed in accordance with the Technical Literature, and be provided as follows:

- Horizontal control joints - at maximum 6 m centres.
- Vertical control joints - at maximum 20 m centres; aligned with any control joint in the structural framing; where the system abuts different cladding types, or where the system covers different structural materials.

(Note: Horizontal and Vertical Control joints must be located over structural supports. The design of vertical control joints where the system abuts different cladding types is outside the scope of this Certificate and is the responsibility of the designer - see Paragraph 8.5.)

Inter-storey Junctions

9.2 Inter-storey drained joints must be provided for walls over 2 storeys in height in accordance with the requirements of NZBC Acceptable Solution E2/AS1, Paragraph 9.1.9.4(b). Inter-storey junctions must be constructed in accordance with the Technical Literature.

(Note: Refer to Paragraph 14.2 for the requirements for barriers to vertical fire spread at inter-storey junctions for buildings of three floors.)

Structure

Mass

10.1 The mass of the MPT Meshclad Cavity System is approximately 9 kg/m², therefore it is considered a light wall cladding in terms of NZS 3604.

Impact Resistance

10.2 The system has adequate resistance to human impact loads likely to be encountered in normal residential use. The likelihood of impact damage to the system when used in light commercial situations should be considered at the design stage, and appropriate protection such as the installation of bollards and barriers should be considered for vulnerable areas.

Wind Zones

10.3 MPT Meshclad is suitable for use in all Building Wind Zones of NZS 3604, up to, and including ‘Very High’ where buildings are designed to meet the requirements of NZBC Acceptable Solution E2/AS1, Paragraph 1.1.

Polystyrene Sheet Fixing

10.4 EPS sheets must be fixed through the cavity battens and cavity spacers to the wall framing at centres specified in Table 1.

Table 1: EPS Sheet Fixing Centres for Edges and Body of the Sheet

NZS 3604 Building Wind Zone	Fixing Centres (mm)
Low ¹	300
Medium ¹	300
High ¹	300
Very High ²	200

1. One fixing is required into each dwang at mid-dwang length and top and bottom plates at mid-dwang length.
2. Fixings are also required into each dwang at 200 mm centres and top and bottom plates at mid-dwang length.

Durability

11.1 MPT Meshclad Cavity System meets code compliance with NZBC Clause B2.3.1 (b), 15 years for the cavity system and plaster finish, and code compliance with NZBC Clause B2.3.1 (c), 5 years for the exterior paint system.

Serviceable Life

11.2 MPT Meshclad Cavity System is expected to have a serviceable life of at least 30 years provided the system is maintained in accordance with this Certificate, and the EPS sheets, fixings and plaster are continuously protected by a weathertight coating and remain dry in service.

Maintenance

12.1 Regular maintenance is essential to ensure the performance requirements of the NZBC are continually met and to ensure the maximum serviceability of the system.

12.2 Regular cleaning (at least annually) of the paint coating is required to remove grime, dirt and organic growth and to maximise the life and appearance of the coating. Grime may be removed by brushing with a soft brush, warm

water and detergent. Paint systems must be recoated at approximately 5-10 yearly intervals in accordance with the paint manufacturer’s instructions.

12.3 Annual inspections must be made to ensure that all aspects of the cladding system, including the coating system, plaster, flashings and any sealed joints remain in a weatherproof condition. Any cracks, damaged areas or areas showing signs of deterioration which would allow water ingress, must be repaired immediately. Sealant, coatings and the like must be repaired in accordance with the instructions of Mineral Plaster Technologies Limited.

12.4 Minimum ground clearances as set out in this Certificate and the Technical Literature must be maintained at all times during the life of the system. *(Failing to adhere to the minimum ground clearances given in this Certificate and the Technical Literature will adversely affect the long term durability of the MPT Meshclad Cavity System.)*

Control of Internal Fire and Smoke Spread

13.1 Polystyrene used with the system meets the flame propagation criteria of AS 1366. The polystyrene must also be protected from ignition in accordance with the requirements of NZBC Acceptable Solution C/AS1 Part 6, Paragraphs 6.20.11 and 6.20.12. Where required by NZBC Acceptable Solution C/AS1 Part 6, Table 6.3, flame barriers meeting the requirements of C/AS1 Part 6, Paragraph 6.20.13 and Appendix C, Paragraph C10.1 must be provided.

Control of External Fire Spread

14.1 MPT Meshclad has a performance level A in accordance with NZBC C/AS1 Part 7, Table 7.5. The system is suitable for use as an external wall cladding system on buildings up to 10 m high in all Purpose Groups, at any distance from the boundary.

(Note: The scope of this Certificate limits building heights to 10 m in accordance with the limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1(a).)

14.2 Where buildings are of the three floor maximum permitted by NZBC Acceptable Solution E2/AS1, Paragraph 1.1 (a), and when the cladding system extends to cover the walls of all three floors, the requirements for barriers to vertical fire spread in the cladding as set out in NZBC Acceptable Solution C/AS1 Part 7, Paragraphs 7.9.18 and 7.9.19 must be met. These joints are not covered by the Technical Literature, and are outside the scope of this Certificate. Design of the barrier joint must be specifically detailed by the designer to meet the NZBC, including blocking of the cladding cavity and wall framing cavity, and installation of flashing and sealing systems to collect and direct any moisture to the outside of the cladding system at this point.

Outbreak of Fire

15.1 MPT Meshclad must be separated from chimneys and flues in accordance with the requirements of NZBC Acceptable Solution C/AS1, Part 9 for the protection of combustible materials.

External Moisture

16.1 MPT Meshclad, when installed in accordance with this Certificate and the Technical Literature, prevents the

penetration of moisture that could cause undue dampness or damage to building elements.

16.2 The cavity must be sealed off from the roof and sub-floor space to meet code compliance with Clause E2.3.5.

16.3 MPT Meshclad allows excess moisture present at the completion of construction to be dissipated without permanent damage to building elements to meet code compliance with Clause E2.3.6.

16.4 The details given in the Technical Literature for weather sealing are based on the design principle of having a first and second line of defence against moisture entry for all joints, penetrations and junctions. The ingress of moisture must be excluded by detailing joinery and wall interfaces as shown in the Technical Literature. Weathertightness details that are developed by the designer are outside the scope of this Certificate and are the responsibility of the designer for compliance with the NZBC.

16.5 The use of MPT Meshclad where there is a designed cavity drainage path for moisture that penetrates the cladding, does not reduce the requirement for junctions, penetrations, etc to remain weather resistant.

Internal Moisture

17.1 NZBC Acceptable Solution E3/AS1 Paragraph 1.1.1(a) requires a minimum wall R-value of 1.5 for framed cavity wall construction. MPT Meshclad alone does not meet Acceptable Solution E3/AS1, Paragraph 1.1.1(a) (see Paragraph 18.1). Additional wall insulation must be added. Alternatively, a specific design may be carried out.

17.2 The EPS cavity battens will act as a thermal break to steel framing in accordance with NZBC Acceptable Solution E3/AS1.

Water Vapour

17.3 MPT Meshclad is not a barrier to the passage of water vapour, and when correctly installed will not create or increase the risk of moisture damage resulting from condensation.

Energy Efficiency

18.1 The thermal performance of MPT Meshclad, and any additional insulation provided within the wall can be calculated in accordance with NZS 4214. Calculations in accordance with NZS 4214 require that the ventilated air gap and the thermal resistance of each layer between the ventilated air gap and outside air be de-rated by a factor of 0.5. Therefore, in this system, unless better information is available for a specific design case, the R-value of the polystyrene layers must be taken as half of the actual value, and are as set out in Table 2.

Table 2: Board R-values (including 0.5 de-rating)

Polystyrene Type	Thickness	
	40 mm	60 mm
EPS Class S ¹	R0.49	R0.73
EPS Class H ²	R0.52	R0.79

1. Based on a thermal conductivity k value of 0.041 W/m°C.

2. Based on a thermal conductivity k value of 0.038 W/m°C.

Installation Information

Installation Skill Level Requirements

19.1 Installation and finishing of components and accessories supplied by Mineral Plaster Technologies Limited and the approved applicators must be completed by trained applicators, approved by Mineral Plaster Technologies Limited.

19.2 Installation of the accessories supplied by the building contractor must be completed by tradespersons with an understanding of cavity construction, in accordance with instructions given within the MPT Meshclad Technical Literature and this Certificate.

System Installation

Building Wrap and Flexible Sill and Jamb Flashing Tape

20.1 The selected building wrap and flexible sill and jamb tape system must be installed by the building contractor in accordance with the wrap and tape manufacturer's instructions prior to the installation of the cavity battens and the rest of the MPT Meshclad system. Particular attention must be paid to the installation of the building wrap and sill and jamb tapes around window and door openings to ensure a continuous seal is achieved and all exposed wall framing in the opening is protected.

Aluminium Joinery Installation

20.2 Aluminium joinery and associated head flashings must be installed by the building contractor in accordance with the Technical Literature. A 7.5-10 mm nominal gap must be left between the joinery reveal and the wall framing so a PEF rod and air seal can be installed after the joinery has been secured in place.

MPT Meshclad System

20.3 The system must be installed in accordance with the Technical Literature by Mineral Plaster Technologies Limited approved applicators.

20.4 The MPT Meshclad plaster system must only be applied when the air and substrate temperature is within the range of +5°C to +30°C.

Inspections

20.5 The Technical Literature must be referred to during the inspection of MPT Meshclad installations by building consent authorities and territorial authorities.

Finishing

20.6 The paint manufacturers' instructions must be followed at all times for application of the paint finish. The plaster must be cured a minimum of 7 days before commencing painting.

Health and Safety

21.1 Safe use and handling procedures for the components that make up MPT Meshclad are provided in the relevant manufacturer's Technical Literature.

Basis of Appraisal

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

Tests

22.1 The following testing has been completed by BRANZ:

- BRANZ expert opinion on NZBC E2 code compliance for MPT Meshclad was based on testing and evaluation of all details within the scope and as stated within this Certificate. The MPT Meshclad system and EIFS balustrade to wall junction details were tested to AS/NZS 4284 with a BRANZ-designed extension which became the basis of the E2/VM1 test. The testing was completed in three stages; the first being the standard AS/NZS 4284 test, the second being the modified AS/NZS 4284 test with defects introduced in the test panel, and the third being the modified AS/NZS 4284 test with the internal linings and building wrap removed. The testing assessed the performance of the foundation detail, window head, jamb and sill details, vertical and horizontal control joints, internal and external corners and balustrade to wall junction with a plastered cap. In addition to the weathertightness test, the details contained within the Technical Literature have been reviewed, and an opinion has been given by BRANZ technical experts that the system will meet the performance levels of Acceptable Solution E2/AS1 for EIFS drained cavity claddings.
- Wind face load and fastener pull through testing for EIFS cladding systems. BRANZ determined design wind suction pressures, and by comparing these pressures with the NZS 3604 design wind speeds and NZS 4203 pressure coefficients, the fixing requirements were determined for timber and steel framed walls.
- Tests to determine the bond strength of Bondcoat plaster to EPS sheet.

Other Investigations

- 23.1 The performance of exterior insulation and finishing systems in New Zealand has been considered.
- 23.2 Structural and durability opinions have been given by BRANZ technical experts.
- 23.3 Site visits have been carried out by BRANZ to assess the practicability of installation, and to examine completed installations.
- 23.4 The manufacturer's Technical Literature has been examined by BRANZ and found to be satisfactory.

Quality

- 24.1 The manufacture of the plasters has been examined by BRANZ, including methods adopted for quality control. Details regarding the quality and composition of the components and accessories used with the system were obtained by BRANZ and found to be satisfactory.
- 24.2 The quality system of Mineral Plaster Technologies Limited has been assessed and registered as meeting the requirements of the Telarc Q-Based Code by Telarc Limited, Registration Number 807.
- 24.3 The quality of materials, components and accessories supplied by Mineral Plaster Technologies Limited is the responsibility of Mineral Plaster Technologies Limited.
- 24.4 Quality on site is the responsibility of the Mineral Plaster Technologies Limited approved applicator.
- 24.5 Designers are responsible for the building design, and building contractors are responsible for the quality of installation of framing systems and joinery, building wraps, flashing tapes, airseals and joinery head flashings in accordance with the instructions of Mineral Plaster Technologies Limited.
- 24.6 Building owners are responsible for the maintenance of MPT Meshclad in accordance with the instructions of Mineral Plaster Technologies Limited.

Sources of Information

- AS 1366.3 - 1992 Rigid cellular plastic sheets for thermal insulation - Rigid cellular polystyrene - Moulded (RC/PS-M)
- AS 3730 - Guide to the properties of paints for buildings.
- AS 3566 - 2002 Self-drilling screws for the building and construction industries.
- AS/NZS 4284: 1995 Testing of building facades.
- NZS 3602: 2003 Timber and wood-based products for use in building.
- NZS 3603: 1993 Timber Structures Standard.
- NZS 3604: 1999 Timber framed buildings.
- NZS 4203: 1992 General structural design and design loadings for buildings.
- NZS 4211: 1985 Specification for performance of windows.
- NZS 4214: 2002 (INT) Methods of determining the total thermal resistance of parts of buildings.
- Compliance Document for New Zealand Building Code External Moisture Clause E2, Department of Building and Housing, Third Edition July 2005.
- New Zealand Building Code Handbook and Approved Documents, Building Industry Authority, 1992.
- The Building Regulations 1992, up to, and including October 2004 Amendment.



In the opinion of BRANZ, MPT Meshclad Cavity System is fit for purpose and will comply with the Building Code to the extent specified in this Certificate provided it is used, designed, installed and maintained as set out in this Certificate.

The Appraisal Certificate is issued only to the Certificate Holder, Mineral Plaster Technologies Limited, and is valid until further notice, subject to the Conditions of Certification.

Conditions of Certification

1. This Certificate:
 - 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. The Certificate Holder:
 - 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.
3. The product and the manufacture are maintained at or above the standards, levels and quality assessed and found satisfactory by BRANZ.
4. BRANZ makes no representation as to:
 - a) the nature of individual examples of, batches of, or individual installations of the product, including methods and workmanship;
 - 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 the Certificate Holder.
5. Any reference in this Certificate to any other publication shall be read as a reference to the version of the publication specified in this Certificate.

For BRANZ

P Robertson
Chief Executive

Date of issue: 22 December 2005