



**SPECIFY WITH  
CONFIDENCE**

**BRANZ Appraisals**

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

**BRANZ  
APPRAISAL  
CERTIFICATE  
No. 476 (2005)**

**ROCKCOTE  
EPS 40 PLUS  
CAVITY BASED  
CLADDING  
SYSTEM**

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## Product

1.1 The Rockcote EPS 40 Plus Cladding System is a cavity-based Exterior Insulation and Finishing (EIFS) wall cladding. It is designed to be used as an external cladding system for residential and light commercial type buildings where domestic construction techniques are used.

1.2 The system consists of 40 mm thick polystyrene sheets fixed over polystyrene or timber battens to form the cavity. The coating system consists of minimum 5 mm thickness of fibreglass mesh reinforced polymer-modified plasters and high-build, tintable finishing plasters applied to polystyrene sheets. The plaster is finished with a tintable protective finishing coat. The plaster can be applied to give different texture appearances.

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 cavity.



## Scope

2.1 The Rockcote EPS 40 Plus Cladding System has been appraised as an external wall cladding system for buildings within the following scope:

- within 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 The Rockcote EPS 40 Plus Cladding System 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 The Rockcote EPS 40 Plus Cladding System must only be installed to vertical surfaces (except for tops of parapets, sills and balustrades, which must have a minimum 15° 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 the Rockcote EPS 40 Plus Cladding System 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 Rockcote Systems and resgistered applicators must be carried out only by Rockcote registered applicators.

## Building Regulations

### New Zealand Building Code (NZBC)

**3.1 In the opinion of BRANZ, the Rockcote EPS 40 Plus Cladding 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. The Rockcote EPS 40 Plus Cladding System 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 – 10.3.

**Clause B2 DURABILITY:** Performance B2.3.1 (b), 15 years and B2.3.1 (c), 5 years. The Rockcote EPS 40 Plus Cladding System meets these requirements. See Paragraph 11.1 and 11.2.

**Clause E2 EXTERNAL MOISTURE:** Performance E2.3.2. The Rockcote EPS 40 Plus Cladding System meets this requirement. See Paragraphs 16.1 – 16.5.

**Clause F2 HAZARDOUS BUILDING MATERIALS:** Performance F2.3.1. The Rockcote EPS 40 Plus Cladding System 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 Rockcote Systems are as follows:

### Polystyrene

- Cavity battens are manufactured from high density (Class H) expanded polystyrene (EPS) with an approximate density of 24 kg/m<sup>3</sup>. The battens are 40 mm wide by 22 mm thick and are supplied in 2400 mm lengths.
- EPS sheets are 40 mm thick Class S or H with a nominal density of 16 or 24 kg/m<sup>3</sup> respectively. The sheets are supplied in lengths of 2400, 2700, 3600 and 4800 mm x 1200 mm wide and are manufactured to meet the requirements of AS 1366.3.
- Extruded polystyrene (XPS) sheets are 40 mm thick with a nominal density of 30 kg/m<sup>3</sup>. The sheets are 2400 x 600 mm with tongue and groove edges and are manufactured to meet the requirements of AS 1366.4.

### Plasters

- Rockcote PM100 Quick Render is a dry mix, cement-based, polymer-modified plaster supplied in 25 kg bags and mixed on site with clean water. It is used as a base coat for bonding and bedding the fibreglass mesh and is trowel-applied to an approximate thickness of 4-5 mm.
- Rockcote Textures are ready mixed, tintable, mineral-filled, polymer-based, high-build finishing plasters with in pail

and dry film preservatives, supplied in 15 litre pails. They are spray or trowel applied to an approximate thickness of 1.0, 2.0 or 3.0 mm. The selected Rockcote Texture colour must have a minimum light reflectance value (LRV) of 40%.

### Primer, Plaster Modifier and Finishes

- Rockcote Render Prime is a water-borne acrylic, polymer dispersion, tintable coating supplied in 15 litre pails. It is brush or roller-applied as a primer between the Rockcote Quick Render base and Rockcote Textures.
- Multistop bedding compound – used as a uPVC primer when mixed with diluted Acrylbond resin or water.
- Rockcote Acrylbond is a water-based co-polymer resin supplied in 4 and 15 litre pails used as a plaster modifier.
- Rockcote Premium Armour is a water-borne acrylic-based standard and elastomeric protective finish for use over Rockcote Textures. It is supplied in 4 and 15 litre pails and is brush or roller applied. The protective finish coat must have a minimum LRV of 40%.

### Accessories

- Reinforcing Mesh – an alkali-resistant fibreglass with a nominal mesh size of approximately 5.0 x 4.0 mm and an approximate weight of 160 g/m<sup>2</sup>.
- Rockcote Sticky Mesh – alkali-resistant fibreglass, 150 mm wide corner pieces.
- uPVC components – sill and jamb flashings, head flashing, control joint, starter strips, sill/jamb corner soakers and jamb/head corner soakers.
- Rockcote Washers – 40 mm diameter, nylon.

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

- Cavity batten fixings – 30 or 40 x 2.5 mm hot-dip galvanised steel flat head nails to timber frame, or construction adhesive for temporary fixing to building wrap fixed over timber and steel frame.
- uPVC component fixings – 30 x 2.5 mm hot-dip galvanised steel flat head nails to timber frame and AS 3566 Corrosion Class 3, 20 mm screws to steel frame.
- Polystyrene sheet fixings (timber frame) – 90 x 3.55 hot-dip galvanised steel flat-head nails with 40 mm diameter washers. (Note: Hot-dip galvanising must comply with AS/NZS 4680.)
- Polystyrene sheet fixings (steel frame) – Self-drilling AS 3566 Corrosion Class 3 or stainless steel, 8-gauge x 80 mm screws with 40 mm diameter Rockcote washers.
- Waterproof membranes – those covered by a valid BRANZ Appraisal Certificate for use as waterproof membranes over the tops of plastered balustrades, fixing blocks and the like.
- Flexible sealant – Silaflex MS, or 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.

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 building membranes covered by a valid BRANZ Appraisal Certificate for use as wall wraps.
- Building wrap support – polypropylene strap for securing the building wrap in place and to prevent bulging of the bulk insulation into the drainage cavity. (Note: additional battens may also be installed to provide support.)
- Flexible sill and jamb 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.

- Joinery head flashings – as supplied by the joinery manufacturer or contractor.
- Window and door trim cavity air seals – 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 for use around window, door and other wall penetration openings.

## Handling and Storage

5.1 Handling and storage of all materials supplied by Rockcote Systems or their registered applicators, whether on or off site is under the control of Rockcote System's registered applicators. Dry storage must be provided for the fibreglass mesh and bags and pails of plaster mix. Polystyrene 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 the 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 and pails of plaster mix must be used within the designated shelf life from the date of manufacture.

## Technical Literature

6.1 Refer to the Appraisals listing on the BRANZ website for details of the current Technical Literature for the Rockcote EPS 40 Plus Cladding 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 the Rockcote EPS 40 Plus Cladding System 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. Dwangs 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 installation. *(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 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 minimum 0.55 mm.

7.6 Studs must be at maximum 600 mm centres, with nogs flush fitted between at maximum 800 mm centres.

### Polystyrene Sheets, Battens and Spacers

7.7 All polystyrene vertical sheet edges must be supported and fixed through the cavity battens to 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 sheets must hang 50 mm below the supporting framing.

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

## General

8.1 Holes in the starter strip provide a ventilation opening area of 1000 mm<sup>2</sup> 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 cladding 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 the system abuts other cladding systems, designers must detail the junction to meet their own requirements and the requirements of the NZBC. The Technical Literature provides some guidance. Details not included within the Technical Literature have not been assessed and are outside the scope of this Certificate.

### Electrical Cables

8.6 PVC sheathed electrical cables must be prevented from direct contact with the polystyrene. When cables must penetrate the EPS or XPS sheet 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 6 m centres; aligned with any control joint in structural framing; where building frame movement is likely; or where the system abuts other construction.

*(Note: 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 Rockcote EPS 40 Plus Cladding System is approximately 9 kg/m<sup>2</sup> at equilibrium moisture content 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. Where a greater level of impact protection is required a heavier grade of reinforcing mesh or two layers of mesh may be used. The likelihood of impact damage to the system when used in light commercial type situations should be considered at the design stage, and appropriate protection such as the installation of barriers or bollards should be provided for vulnerable areas.

### Wind Zones

10.3 The system is suitable for use in all Building Wind Zones of NZS 3604, up to, and including, 'Very High'.

### Polystyrene Sheet Fixing

10.4 Sheets must be fixed through the cavity battens to the wall framing at maximum centres specified in Table 1. One fixing is also required into each nog and top and bottom plates at mid-nog length.

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

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

## Durability

### Serviceable Life

11.1 The Rockcote EPS 40 Plus Cladding 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 protective finishing coat.

11.2 The Rockcote EPS 40 Plus Cladding System is expected to have a serviceable life of at least 30 years provided it is maintained in accordance with this Certificate, and the polystyrene sheets, fixings and plasters are continuously protected by a weathertight paint system such as the Rockcote Premium Armour 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. The system must be maintained in accordance with the

Rockcote Care and Maintenance Guide.

12.2 Annual inspections must be made to ensure that all aspects of the cladding system, including the finish 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, finish coatings and the like must be repaired in accordance with the sealant or finish coating manufacturer's instructions. Refer to Rockcote Systems 'My Home' maintenance program.

12.3 Although the Rockcote Premium Armour is designed as a protective finish over the system, regular cleaning (at least annually) is still recommended to remove any grime, dirt and organic growth that may have accumulated, and to maximise the life and appearance of the coating. Grime may be removed by brushing with a soft brush, warm water and detergent. The protective finish must be recoated at approximately 5-10 yearly intervals in accordance with Rockcote System's instructions.

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. *(Failure to adhere to the ground clearances given in this Certificate and the Technical Literature will adversely affect the long term durability of the system.)*

## Control of Internal Fire and Smoke Spread

13.1 The polystyrene used with the system meets the flame propagation criteria of AS 1366. It must also comply 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 NZBC C/AS1 Part 6, Paragraph 6.20.13 and Appendix C, Paragraph C10.1 must be provided.

## Control of External Fire Spread

14.1 The Rockcote EPS 40 Plus Cladding System using any surface finish is considered to meet the performance provisions of NZBC C3.3.5 for use as an external wall cladding system when restricted to:

- Single storey buildings 1 m or more from the boundary for all purpose groups.
- Buildings up to 7 m high, 1 m or more from the boundary, for all purpose groups other than SC and SD.
- Fully sprinklered buildings up to 10 m high, 1 m or more from the boundary for all purpose groups other than SC, SD, SA and SR.
- Buildings containing purpose group SH, with a building height less than 10 m and located 1 m or more 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 as set out in NZBC Acceptable Solution C/AS1 Part 7, Paragraphs 7.9.18 and 7.9.19 must be met. 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. These joints are not covered by the Technical Literature, therefore are outside the scope of this Certificate.

## Outbreak of Fire

15.1 The Rockcote EPS 40 Plus Cladding System 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 The Rockcote EPS 40 Plus Cladding System, 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 compliance with NZBC E2.3.5.

16.3 The Rockcote EPS 40 Plus Cladding System allows excess moisture present at the completion of construction to be dissipated without permanent damage to building elements to meet compliance with NZBC 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 the Rockcote EPS 40 Plus Cladding System 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. The Rockcote EPS 40 Plus Cladding System alone does not meet NZBC Acceptable Solution E3/AS1, Paragraph 1.1.1 (a). 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 The Rockcote EPS 40 Plus Cladding System is not a barrier to the passage of water vapour, and when installed in accordance with this Certificate will not create or increase the risk of moisture damage resulting from condensation.

## Energy Efficiency

18.1 The thermal performance of the Rockcote EPS 40 Plus Cladding System, or any additional insulation provided within the wall can be calculated in accordance with NZS 4214. Calculations in accordance with NZS 4214 require that, unless better information is available, 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 the R-value of the

polystyrene layers must be taken as R0.52 (40 mm thick 'H' Grade EPS) and R0.70 (40 mm thick XPS) based on thermal conductivities (k values) of 0.038 and 0.028 W/m°C respectively.

## Installation Information

### Installation Skill Level Requirement

19.1 Installation and finishing of components and accessories supplied by Rockcote Systems and its registered applicators must be completed by the registered applicator.

19.2 Installation of the accessories supplied by the building contractor must be completed by tradespersons with an understanding of cavity wall construction and EIFS (exterior insulation finishing system) installation, in accordance with the instructions given within the Rockcote System's Technical Literature and this Certificate.

### System Installation

#### Building Wrap and Flexible Sill and Jamb Tape

19.3 The selected building wrap and flexible sill and jamb tape flashing 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 Rockcote EPS 40 Plus Cladding System. Particular attention must be paid to the installation of the building wrap and sill and jamb tapes around joinery openings to ensure a continuous seal is achieved and all exposed timber wall framing in the opening is protected.

#### Aluminium Joinery Installation

19.4 Aluminium joinery and associated head flashings must be installed 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.

#### Rockcote EPS 40 Plus Cladding System

19.5 Components and accessories supplied by Rockcote Systems and the registered applicator must be installed in accordance with the Technical Literature by the registered applicator.

19.6 The Rockcote EPS 40 Plus Cladding System must only be applied when the air and substrate temperature is within the range of +5°C to +30°C.

#### Inspections

19.7 The Technical Literature must be referred to during the inspection of Rockcote EPS 40 Plus Cladding System installations by building consent authorities and territorial authorities.

### Health and Safety

20.1 Safe use and handling procedures for the components that make up the Rockcote EPS 40 Plus Cladding System are provided in the relevant manufacturers' Technical Literature.

# Basis of Appraisal

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

## Tests

21.1 The following testing has been completed by BRANZ:

- BRANZ expert opinion on NZBC E2 code compliance for the Rockcote EPS 40 Plus Cladding System was based on testing and evaluation of all details within the scope and as stated within this Certificate. The Rockcote EPS 40 Plus Cladding System and balustrade to wall junction details were tested to AS/NZS 4284 with a BRANZ-designed extension. 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 into the 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 NZBC Acceptable Solution E2/AS1 for 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.

## Other Investigations

22.1 Structural and durability opinions have been provided by BRANZ technical experts.

22.2 Site visits have been carried out by BRANZ to assess the practicability of installation, and to examine completed installations.

22.3 The Technical Literature for the Rockcote EPS 40 Plus Cladding System has been examined by BRANZ and found to be satisfactory.

## Quality

23.1 The manufacture of the plasters has been examined by BRANZ and details regarding the quality and composition of the materials used were obtained by BRANZ and found to be satisfactory.

23.2 The quality management system of the plaster manufacturer, Fulton Hogan Ltd, has been assessed and registered as meeting the requirements of ISO 9001: 2000 by Telarc, Registration Number 440.

23.3 The quality of materials, components and accessories supplied by Rockcote Systems is the responsibility of Rockcote Systems.

23.4 Quality on site is the responsibility of the Rockcote Systems registered applicators.

23.5 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, air seals and joinery head flashings in accordance with the instructions of Rockcote Systems.

23.6 Building owners are responsible for the maintenance of the Rockcote EPS 40 Plus Cladding System in accordance with the instructions of Rockcote Systems.

## Sources of Information

- AS 1366.3 - 1992 Rigid cellular plastic sheets for thermal insulation - Rigid cellular polystyrene - Moulded (RC/PS-M).
- AS 1366.4- 1989 Rigid cellular plastic sheets for thermal insulation - Rigid cellular polystyrene – Extruded (RC/PS-E).
- AS 3566 – 2002 Self-drilling screws for the building and construction industries.
- AS/NZS 4284: 1995 Testing of building facades.
- AS/NZS 4680: 1999 Hot-dip galvanised (zinc) coatings on fabricated ferrous articles.
- NZS 3602: 2003 Timber and wood-based products for use in building.
- NZS 3604: 1999 Timber framed buildings.
- NZS 4211: 1985 Specification for the 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, Rockcote EPS 40 Plus Cladding 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, Rockcote Systems, 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: 15 August 2005