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# **SPECIFICATION**

## **ENVIRO**

### **AAC PANEL SYSTEM**

*For work to be done and materials to be used in carrying  
out the works shown on the accompanying drawings*

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(Project name)

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(Project address)

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(Owners Name)

Job Number:	Date:
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## 1.1 Preliminary

This section deals with the fixing of **Masons Enviro Exterior Wall Cladding System** based on **ENVIRO** (Aerated Concrete Sheets) fixed to timber/metal framing with a drained cavity. Also exterior plaster of a polymer-modified cement-based plaster rendering systems, applied by hand, or spray over AAC (autoclaved aerated concrete) blocks and panels.

## 1.2 Compliance

### (a) Durability

The work covered by this part of the specification has been designed and constructed to achieve a minimum durability of 15 years.

### (b) On Going Maintenance Instructions

Provide ongoing maintenance instructions required to meet the performance requirements of the NZBC B2 Durability.

## 1.3 Related Documents

### (a) Documents referred to in this section are:

CODE MARK CERTIFICATE CMA-CM40041  
NZS 4210 - Masonry construction: Materials and workmanship  
NZBC B2 - Durability  
NZBC E2/AS1 - External moisture  
EIMA - EIMA 101.9 test NO. 6.3 and ASTM E2098.  
NZS 3604:1999 Lightweight cladding

### (b) **Masons** literature & information available from **Masons Product Manual**.

You can view copies of our literature at:

Web: [www.mpb.co.nz](http://www.mpb.co.nz)

Phone: 0800 522 533

### (c) Abbreviations

The following abbreviations are used throughout this part of the specification:

- MPNZA: Master Painters New Zealand Association
- WANZ WIS: Window Association of New Zealand Window installation system

## 1.4 Substitutions

Substitutions are not permitted to any specified **Masons Exterior Plaster Cladding System**.

## 1.5 Qualifications

Only applicators that are licensed to apply the **Masons Exterior Plaster Cladding System** will be able to receive the necessary guarantees & producer statements.



## 1.6 Documentation

### *(a) Product Finish.*

If requested, provide a sample panel of the selected finish texture, for approval.

### *(b) Product System Maintenance.*

Provide **Masons Maintenance Guide** to the building owner.

### *(c) Safety Requirements*

Obtain from **Masons** the material safety data sheets for each product. Keep sheets on site and comply with the required safety procedures.

Follow OSH & ERMA Guidelines at all times regarding Site safety, Regulations & Guidelines.

### *(d) Producer Statement*

The applicator is responsible to provide the Building Consent Authority with a Producer statement for the installation and application of the products.

## 1.7 Warranties

### *Manufacturers Material Warranty*

Warrant this part of the work under normal environmental and use conditions against failure of materials and execution. The plaster system is warranted as follows:

- Materials: 15 years from date of practical completion issued by **Masons**.

## 1.8 Components

### **Materials**

- (a) 50 mm ENVIRO Panel 2.2 m long x 0.6 m high
- (b) 75 mm galv ring-shank fixing nail or self tapping screw
- (c) 50 mm x 50 mm timber battens

### **Sealer**

**Masons Plastaseal Sealer** used to assist with controlling suction during plaster application.

### **Paint for ENVIRO System**

**Masons Premium Build 100% Acrylic Latex Paint** compatible with cement based plaster and suitable for textured surfaces.



## 1.9 Plaster

### *(a) 1mm Finishing Plaster*

Factory-mixed polymer modified cement based finishing plaster. Refer to selections for texture and colour.

### *(b) Pre-Coloured Texture Finishing Plaster*

Factory-mixed 100% acrylic plaster. Refer to selections for texture and colour.

### *(c) Adobe Finishing Plaster*

Polymer modified, cement based plaster. Refer to selections for texture and colour.

### *(d) Masons Skimming Render*

A specially blended polymer modified cement based plaster.

## 1.10 Accessories

### *(a) Flashings*

Head jamb sill and any other required flashings made from powder coated aluminium or uPVC supplied by Plastabrick for both recessed and faced fixed timber, aluminium and uPVC joinery to NZBC and masonry construction requirements.

### *(b) Corner and Base Beads*

Pre-meshed uPVC corner, base and edge beads.

### *(c) Fibre Glass Mesh*

150 gsm alkali-resistant fibreglass woven mesh to comply with EIMA 101.9 test N0. 6.3 and ASTM E2098, suitable for residential and light commercial projects.

### *(d) Sealant*

BRANZ appraised modified MS sealant.

## 1.11 Plaster Care

### **Conditions**

#### *(a) Delivery*

Ensure all plaster is delivered dry & undamaged.

#### *(b) Storage*

Ensure dry storage on site, stack carefully, protect from the elements & any other damage.

#### *(c) Plastering Conditions*

Carry out plastering to **Masons** specification only.



## 1.12 Preparation

Before application of plaster, apply masking film and tape to all joinery, pipes, roofs and all areas likely to be marked by the plaster are protected by drop cloths, masking tapes & ground covers to keep the working areas clean. Clean spillage immediately.

### *(a) Surface Substrate*

Only commence work when substrate is complete: i.e. openings, apertures, pipes, fixtures, fixing pads & plugs have been fixed. All defects in substrate must be rectified prior to application of plaster. All ENVIRO joints to be flush finished with all nibs and protrusions ground off by the installer.

### *(b) Flashing and Detailing*

Comply with **Masons Penetration Flashing Guidelines**. Carry out to the required standard of execution to NZBC E2/AS1 to ensure water does not penetrate.

### *(c) Standards and Tolerances*

Comply with the tolerances laid down in NZS 4210 Table 2.2. To have no deviation more than 3 mm from a straight edge 1200 mm long.

### *(d) Confirm Layout*

Before commencing work confirm the layout with the owner the position of expansion joints and other visual detailing of the finished work.

### *(e) Prepare Surface*

Before plastering is commenced, eliminate surface contaminants, remove dust, debris, oils, greases, retarders, & paint from already painted surfaces and loose material. Leave the surface dust free and clean. Make good any defects in the background which may adversely affect the quality of the plaster coating.

## 1.13 Application

### *(a) Install uPVC Corner, Base and Edge Beads*

Install all uPVC corner, base and edge beads necessary and to **Masons** requirements prior to plaster application commencing.

### *(b) Exposed Control Joints*

Provide control joints to all internal and external corners as detailed in page 13 & 14 of technical manual. If the distance between corners exceeds 10.0m, then extra control joints should be located in line with the window or door openings as detailed on page 15 of technical manual. Provide control joints in the plaster to coincide with control joints in the substrate and / or junctions between dissimilar substrates in the same plane and or where shown on the drawings and to **Masons** requirements. Terminate reinforcing mesh each side of control joints. Exposed control joints to be reflected through final coatings from substrate.



#### **1.14 MASONS ENVIRO Texturing System**

##### *(a) Sealer Coat*

To a clean and dry surface apply one coat of PLASTABRICK PLASTASEAL sealer to control suction on the surface during subsequent plaster applications.

##### *(b) Base Coat*

Apply one coat of **Masons Skimming Render** to the whole surface to obtain a smooth level finish of approximately 5 mm thick using **Masons Fibre Glass Mesh**.

150 gsm alkali-resistant fibreglass woven mesh to comply with EIMA 101.9 test N0. 6.3 and ASTM E2098, suitable for residential and light commercial projects.

##### *(c) Levelling Coat*

Apply one thin levelling coat of plaster to match the selected texture coat plaster.

##### *(d) Texture Coat*

Apply selected texture plaster coat from the **Masons Range of Texture Coat**.

##### *(e) Paint System*

Apply two coats **Masons Premium Build 100% Acrylic Latex Paint** to the exterior plastered surfaces. Allow a minimum of 3 days for the cement plaster to dry before the application of the paint system.

#### **1.15 Completion**

##### *(a) Cleaning*

Remove debris, unused materials and elements from the site relating to plaster system application. Replace damaged, cracked or marked elements. Leave the whole of this work to the required standard.



## 8.16 Selection

### (a) *Enviro Aerated Concrete Texturing System*

Location:

Substrate:

Sealer coat:               Masons Plastaseal Sealer

Base coat:                Masons Skimming Render

Meshing (optional):   150gsm coated Masons Plastaclad Mesh with Masons pre-meshed Corner Beads

Levelling coat:

Texture coat:

Colour:

Paint system:           Masons Limestop Sealer, one coat and two coats of Masons Premium Build Paint

Coats:                    Three

Colour: