DESIGNER SPECIFICATION

FOR:
Vetérro Fibre Cement Panel Cladding System

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1. SCOPE OF WORK

The scope of work includes the design, supply, fabrication and installation of Vetérro fibre cement panel cladding. The cladding system shall be installed by an approved cladding specialist subcontractor in accordance with the supplier's recommendations.

2. DESIGN CONCEPT

As a guideline, the proposed Vetérro fibre cement panel cladding shall be based on a watertight panel system as indicated on architectural drawings, including panels, fixing types and locations, joint widths and details, top-hats, weatherproof barrier etc. Variations to the guidelines to suit specific project type performance requirements shall be made at the designer's discretion and subject to engineering and certifier approval.

3. DESIGN CRITERIA

All Vetérro fibre cement panel cladding shall be so designed to meet or exceed specified performances required for the prevailing local weather conditions.

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3.1. Design Wind Loading : _____ kPa positive and negative No cladding element shall sustain permanent deformation or failure under loading equivalent 1.5 times the design wind pressure specified

3.2 Deflection

Deflection of any frame/panels shall not exceed 1/90 of the clear span in accordance with test results. Engineering advice is recommended for applications using a different fixing methodology and/or span factor.

3.3. Expansion and Contraction

The cladding shall be so fabricated and installed as to provide for all expansion and contraction of the components. Any temperature change due to climatic conditions shall not cause harmful buckling or undue stress on fastening and anchors, noise of any kind or other defects.

4. MATERIALS AND FINISHES

4.1. Cladding Material

All cladding shall be 8.0mm thick fibre cement panel.

(a) Thickness: 8.0mm

(b) Mechanical Properties: Compressive strength > 40 MPa

Elongation 7%

(c) Panel Weight: 14.4 kg/m2

(d) Finish

The external cladding panel surface shall be supplied smooth or textured per designer specification, and the panel shall be colouredthrough by the manufacturer.

The finished surface shall be factory protected with a silossanic or acrylic coating, depending on which range is used, to protect against ingress of moisture and dirt.

(e) Colour/Texture As per Vetérro standard colour and texture chart

(f) Natural colour variations are expected with the manufacture of through coloured high density fibre cement panels, therefore they are considered to be a natural characteristic of the material.

A CIELAB colour model is utilised which measures the lightness (ΔL) of the colour.

The tolerance for panel colour differences on a dry facade is ΔL*= ± 2.5.

4.2. The Vetérro fibre cement panel shall be tested in accordance with Australian Standards listed below.

Test	Description	Result
AS 4284	Tests facades for water penetration and air infiltration	Passed
AS 4040.2	Tests sheet roof and wall cladding for non-cyclonic structural applications	Passed

4.3. Fixings

The recommended fixings for steel sub-frames shall be colour matched rivets, being 5mm, into a 5.1mm hole, drilled into the frame. The suitability of fixings for timber frames shall be determined by an engineer based on the load requirements of each project. Recommended fixing point layout contained within architectural drawings document.

All fixings shall be of aluminium, non-magnetic stainless steel, zinc coated steel or hot dip galvanised steel. Other fixing options should be discussed with a qualified professional.

4.4. Dissimilar Materials

It is advisable where two surfaces of dissimilar material come into contact, such surfaces shall be insulated with a layer of PVC or Polyethylene tape. This option should be discussed with a qualified professional.

5. FABRICATION

5.1. It is recommended that all cladding panels shall be factory fabricated and assembled in compliance with the supplier's Data Sheets and to the best standard of workmanship under experienced factory supervision and control.

5.2. All panels shall be cut using equipment and tools recommended and approved by the panel supplier. The standard ranges do not require re-sealing after being cut. Please check with HVG Facades to determine if the panels require resealing after cutting.

5.3. Fixings shall be properly positioned so that the fixing locations match the fixing layout contained within the architectural drawings document.

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6. INSTALLATION

6.1 Prior to installation panels should be stored on pallets in accordance with the details outlined in the Vetérro Handling Procedures document. The document also outlines the procedures required to avoid unnecessary stress being placed on the panels by allowing them to bend excessively.

6.2 Any component parts which are observed to be defective in any way, including warped, bowed, dented, abraded and broken members must not be installed. Member or parts which have been damaged during installation or thereafter before the time of final acceptance shall be removed and replaced.

6.3 No cutting, trimming, welding or brazing of any component parts during installation, in any manner which would damage the finish, decrease the strength or result in a visual imperfection or failure in performance shall be executed during installation. Component parts which require alteration shall be returned to shop for fabrication, if necessary replaced with new parts.

6.4 Anchorage of the cladding structure to the building structure shall be by approved methods in strict accordance to the specification and approved shop and/or installation drawing.

6.5 All component parts shall be installed level, true to line with uniform joints and reveals.

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