FIBRE CEMENT SHEET JOINTING AND FINISHING SYSTEM SPECIFICATION

Project Name:

Project Address:

Specification Prepared For:

Specifier's Name:

Date:

Licensed Specialized Plastering Contractor:

License Number:

1.0 INTRODUCTION

This specification is for the application of Specialized Construction Products Fibre Cement Sheet jointing and finishing system (FCF). This system is made up of 7.5mm Fibre Cement Sheets that are fixed to timber or steel framing over the surface over a 20mm cavity. The backing substrate is then over-coated and reinforced with two alternate layers of 160gram fibreglass mesh embedded in Powaflex acrylic plaster before the walls are finished with a chosen Baumit acrylic finishing plaster and painted with a 100% acrylic paint system.

Powaflex plaster is a ready-to-use, fibre reinforced, polymer-bound base coat that can be easily applied over properly prepared substrates prior to a selected Baumit acrylic finishing plaster being applied. Baumit's range of acrylic plaster finishes are ready to use, pasty, synthetic-resin final coats that can be applied to achieve a wide range of decorative finishes for internal and external areas.

2.0 PRE-PLASTERING REQUIREMENTS

The Fibre Cement Sheet substrate must be a minimum of 7.5mm thick and must be installed in strict accordance with the manufacturer's specifications and recommended installation procedures. Failing to follow the manufacturers fixing specifications can lead to excess movement and cracking after the substrate has been plastered. The finished appearance of the Fibre Cement cladding is highly dependant on the standard of the wall construction.

This system must not be used in situations where water may pond. A minimum slope of 10° is required on all sills and copings. It is critical that pipes are flashed appropriately in accordance with E2 fig 68.

All pipes must have a downward rake of a minimum of 5° and must be sealed in place using MS Sealant or another approved equivalent both before plastering and after the installation of the Powaflex plaster system.

Construction Joints must be provided according to the sheet manufacturers design criteria. All construction joints must be in place and must be waterproof prior to the commencement of plastering.

3.0 SURFACE PREPARATION

All nibs and protrusions on the surface of the sheets or irregularities must be ground off prior to plastering. All surfaces to receive an application of Specialized's FCF System must be clean and free of debris, dirt and dust, efflorescence, grease, oils, curing agents, cleaning solutions, mould and algae or any other contaminants that may affect adhesion. Painted or glossy surfaces must be specially treated prior to the application of any plaster material, please refer to Specialized Construction Products for specialist advice before you proceed. All cracks that may be the subject to ongoing movement must be correctly repaired and reinforced.

Tilt slab and other precast concrete items should be chemically cleaned with a water blaster to ensure any mould release agents are removed before the plaster is applied. Failing to correctly prepare and seal the substrate may cause delamination, chalking or failure in the base coat.

Do not wet down the surface of the Fibre Cement Sheet before plastering and do not apply Powaflex to surfaces that are wet from rain or overnight dew.

4.0 SAFETY PRECAUTIONS

Avoid contact with eyes and prolonged contact with skin. Wash thoroughly after handling all wet or dry plaster materials. In case of eye contact, flush immediately with running water for at least 15 minutes. Consult a physician immediately. Do not take internally. The potential irritant nature of the plaster dust (in dry powder form or from subsequent cutting of the hardened product) is recognised. Paper dust masks or a respirator must be worn at all times when the product is being mixed. Be sure to provide adequate ventilation when working in enclosed areas. Prolonged skin contact should be avoided. People with sensitive skin must wear rubber gloves when handling the product. Materials Safety Data Sheets are available on request.

5.0 MATERIALS APPLICATION

On-site application is beyond the control of Specialized Construction Products Ltd. Therefore it cannot guarantee workmanship, supervision, aesthetic quality or the correct preparation and application of its products or the substrates to which its products may be applied.

BASE COAT PLASTERING

Specialized's FCF System consists of two independently installed layers of 4x4mm, 160gram alkali resistant fibreglass mesh. Initially all the joints must be reinforced with a 75mm bandage of mesh laid in Powaflex plaster, before a subsequent layer of 160gram alkali resistange fibreglass mesh is laid in Powaflex plaster over the entire wall. Thickness is critical - a minimum thickness of 2-3mm of Powaflex must be placed in the rebated Fibre Cement Sheet Joint with the first coat. Do not force the 75mm mesh hard down onto the surface of the substrate. The mesh is best to be "grinning" through with plaster. Once the bedding coat has cured apply a second layer of Powaflex plaster over the entire wall so overall the joints are left flat and fair. Once the second mesh coat has cured the substrate is ready to receive the chosen Baumit acrylic finishing plaster.

Powaflex is to be used only as "Thin-Layer-System" with a nominal thickness of 2-3mm.

The instructions for mixing Powaflex and the subsequent Baumit acrylic finishing plasters are clearly spelt out on the labels on the bag/bucket.

The air temperature and the temperature of the substrate and the plaster itself must be higher than +5°C during processing and setting. While it is curing all finishing work must be protected from direct solar radiation, rain or strong wind (e.g. scaffolding protection net). High temperatures during summer will seriously shorten the working and drying time of the product.

It is important that each mix of plaster stand for approximately 5 minutes, and is then re-stirred and the final consistency adjusted. This allows the thickening agents in the plaster to take effect and stops the brew becoming too thick too quickly. Do not use plaster that has been mixed for more than one hour. The plaster will continue to stiffen slightly over the hour.

FINISHING PLASTERS OPTIONS

☐ **BAUMIT GRANOPORTOP 1.5MM/2.0MM ACRYLIC FINISHING PLASTER**
Ready-to-use, pasty, synthetic-resin thin-layer final coat with rubbed or grooved structure for interior and outdoor use. Baumit GranoporTop can be applied manually and by machine.

☐ **BAUMIT GRANOPORTOP FINE ACRYLIC FINISHING PLASTER**
Ready-to-use, pasty, synthetic-resin thin-layer final coat with rubbed or grooved structure for interior and outdoor use. Baumit GranoporTop can be applied manually and by machine.

PAINT

PLASTERSHIELD: A 100% acrylic-based paint that has been specially formulated for use over plasters/substrates.
All plastered surfaces must be coated with a minimum of 2 coats of Plastershield tinted to the selected colour and applied by brush and roller at a spread rate of approximately 6m2. As an alternative to Plastershield, a latex based exterior paint system complying with any of Parts 7, 8, 9 or 10 of AS 3730 may be used. The paint system must be applied in accordance with the paint manufacturer's instructions. Other paint systems are not covered by this specification sheet and Specialized Construction Products Ltd will not warrant the use or suitability of alternative paint systems over the surface of its plaster finishes.

The chosen paint system must have a Light Reflective Value (LRV) of no less than 40.

Paint colour required:

Manufacturer:

6.0 CURING

The curing time of Specialized's FCF System will vary due to ambient temperature, relative humidity, surface temperature, surface porosity, application methods, and/or the thickness of the material. All freshly applied material must be protected from inclement weather for a minimum of 24 hours after application. It is the responsibility of the plaster applicator to determine if the product is cured and/or dry prior to applying any additional coats that may be required or exposing the applied product to rain, snow, dew, and/or any other inclement weather condition that may have a detrimental effect.

7.0 LIMITATIONS

DO NOT apply the FCF system when the ambient or surface temperature is below 5°C or above 30˚C or will be in that range for the 24-hour period after application. When hot, dry, or windy conditions exist, moist curing and protection must be provided. Material that is allowed to freeze or material that dries too quickly may suffer irreparable damage.

DO NOT add any other materials to any of the chosen plasters or deviate from the mixing or application procedures outlined in any of Specialized Construction Product's technical data sheets without written approval from Specialized Constructions Products Ltd.

DO NOT apply the FFC system unless the substrate has been properly cleaned and prepared. See Surface Preparation above.

DO NOT add any more water than prescribed by the technical data sheet for this product.

DO NOT wet the wall prior to the application of this material.

DO NOT mix more plaster than you can use in 45 minutes

NOTE:
Failure to follow the manufacturers written specifications could result in the following but not limited to spalling, cracking, peeling, chipping, delamination, discoloration, wash off, and overall system failure.

8.0 CLEANING

Cleaning may be accomplished with water immediately after use. Clean the whisk and the bucket between mixes and discard the cleaning water.

9.0 PLASTER STORAGE

In bagged form this product must be stored in a dry area, off the floor on a timber pallet or timber dunnage and it must be protected from the weather and from mechanical damage. Rotate the stock to ensure that the oldest material is used first. Plaster stock that is older than six months should be discarded.

10.0 MAINTENANCE

The wall cladding system should be regularly cleaned, at least annually, by washing with clean water to remove dirt and to maintain the finish appearance. Grime may be removed with warm water and detergent.

Plastered wall should be recoated with either Plastershield or another approved paint system at 5 to 8 yearly intervals or sooner if required to maintain watertightness. Regular checks, at least annually, must be made of the system to ensure that the weather resistant coating is maintained watertight, and that the sealant, flashings, and other joints continue to perform their function and do not allow water to penetrate. Failure to correctly maintain the system may void any long-term warranties offered with the system. Any accidental damage to the cladding must be repaired immediately using Specialized Construction Products materials.

System guarantee period – 10 years from date of practical completion.
Workmanship guarantee period – 5 years from date of practical completion.

11.0 WARRANTY

The recommendations, suggestions, statements and technical data provided by Specialized Construction Products Ltd are based on the best current knowledge available and are given for information purposes only without any responsibility for their use. It is expressly understood and agreed that the buyer's sole and exclusive remedy shall be the replacement of defective products, and under no circumstance, shall Specialized Construction Products Ltd be liable for incidental or consequential damages. Specialized Construction Products Ltd neither assumes, nor authorizes, any others to assume for it any liability with respect to furnishing of the product. Handling and use of the products are beyond the control of Specialized Construction Products Ltd; therefore, no warranty is made, expressed or implied, as to the results or on site quality that can be obtained from the use of the product.

12.0 TECHNICAL ASSISTANCE

Technical assistance and information is available by calling Specialized Construction Products Ltd at (09) 414 4499 or 0800 800 79 or by e-mail at "info@specialized.co.nz".