



PoLYRENDER

THERMAL FACADE SYSTEM BY **CHAD**

PoLYRENDER THERMAL FACADE CLADDING SYSTEM: HIGH-QUALITY WALLING SOLUTION



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CHAD designed and manufactured the PoLYRENDER Thermal Facade System. It offers an insulating, decorative and protective finish for your exterior surfaces. The CHAD PoLYRENDER Thermal Facade System is fully BCA compliant (NCC 2014 Compliance, Appraisal and Certification Report No. ACA-140807, given 12th August 2014).

What is a PoLYRENDER Thermal Facade System?

While giving the appearance of a rendered brick wall, PoLYRENDER Thermal Facade System is a multi-layered wall system that consists of the following components:

1. PoLYRENDER Panel – Made of polystyrene, coated with polymer modified render and alkali resistant fibreglass mesh, mechanically secured to the exterior wall surface.
2. Base Coat – Two coats of base coat render 3-5mm thick is applied to the entire wall area.
3. Finish Coat – Applied on top of the base coat giving a durable, crack resistant finish.

Key Benefits of PoLYRENDER Thermal Facade System from CHAD

- Flexible design
- Quick and easy installation
- Strong and durable
- Lightweight
- Highly insulating
- Energy efficient

Flexible Design, Versatile Applications

Consisting of Grade M expanded polystyrene, CHAD PoLYRENDER Thermal Facade System is perfectly suited for cladding and rendering applications and is aesthetically designed to resemble the appearance of a rendered brick wall. It features a depth of reveal at windows that only further enhances its architectural appearance. The inherent flexibility of PoLYRENDER enables a less-constrained design and installation process of wall systems.

Each PoLYRENDER panel is available as a 1.2m x 3.0m sheet with a standard thickness sizes of 50 millimetres, 75 millimetres, and 100 millimetres. For other size requirements, a request can be made so that the PoLYRENDER can be customised based on the desired size.



High Thermal Efficiency: Built for Superior Insulation Performance

PoLYRENDER utilises the superior thermal capabilities provided by the expanded polystyrene (EPS) material. A PoLYRENDER panel with a thickness of 75 millimetres is likely to be three times more thermally efficient than a standard brick veneer construction.

Easy Installation

PoLYRENDER is specifically designed for easy installation. It is installed on site and applied to external walls, bulkheads, fences, extensions, and columns. After being fixed or screwed through washers to timber or steel-made exterior wall frame, an Alkaline-resistant fibreglass mesh is installed over the wall. A 2-coat application to the entire wall of Polymer-reinforced coating follows the mesh rendering. Thereafter, a coloured topcoat of texture is applied as finish coating.

The CHAD PoLYRENDER system is the preferred choice for cladding materials because of its quality, flexibility, and easy installation. The cladding system offers a seamless and high-quality finish that meets the five-star energy efficiency requirements. Using CHAD's PoLYRENDER panel guarantees strength and durability to the external walls.

Available Sizes of PoLYRENDER Thermal Facade System

PoLYRENDER panel is available in the following dimensions:

Product	Length(mm)	Width(mm)	Thickness(mm)
PoLYRENDER Panel	1200mm	3000mm	50mm
PoLYRENDER Panel	1200mm	3000mm	75mm
PoLYRENDER Panel	1200mm	3000mm	100mm

Other sizes are available upon request.

Note: It is recommended that a minimum of 75mm or greater of PoLYRENDER panel be used for the main dwelling walls. 50mm is only recommended for parapets or bulkheads where 75mm is too thick for the set out of the frame.

Thermal Qualities Found in PoLYRENDER Panel

PoLYRENDER Panel is three times thermally efficient as compared to standard brick veneer construction.

PoLYRENDER Panel	R Value	With Sisalation
50mm PoLYRENDER	1.8	2.3
75mm PoLYRENDER	2.0	2.6
100mm PoLYRENDER	2.44	3.0



Leading independent consultants have comprehensively tested and evaluated CHAD PoLYRENDER Board and have verified that it complies with all relevant Australian Standards and Building Code of Australia (BCA) Performance Requirements necessary for EIFS systems. Consequently CHAD PoLYRENDER Board is fully compliant and has been accredited by the Victorian Building Advisory Committee (Brac) as an external cladding and wall insulation system.

Make the right choice, CHAD has all your surfaces covered:

For the best possible finish with consistent results it is recommended you use all the components of the CHAD PoLYRENDER system using CHAD SURFACE COATING products. The system comprises of a selection of high quality components that are fully integrated and have been specifically designed to complement each other at every stage of construction, ensuring consistent results every time.

A. CHAD PoLYRENDER - Insulated Cladding Panel/Board

The M Grade, fire-retardant and vermin-resistant EPS board conforms to the following standards: AS 1366.3. The dimensionally stable board is ideal to use in external rendering applications.

B. CHAD PoLYRENDER - Fixing Accessories

It consists of PVC angle or bead, washers and fixing screws.

C. CHAD PoLYRENDER - Wall Mesh

Alkali resistant, self-adhesive fibreglass mesh that is installed on-site.

D. CHAD SURFACE COATINGS - Render

Depending on the substrate we have the render to suit your requirements.

Our superior quality of renders include:

- Trade Render
- Pro Render
- High Build Render
- FR Renders

E. CHAD Surface Coatings - Primer/Texture

Marble based texture coating for a superior finish. Can be tinted in white bases and can be applied by trowel or by spraying. A top coat of CHAD Surface Coatings Render Paint is recommended.

CHAD provides a seven-year warranty on the PoLYRENDER Thermal Facade System that covers replacement of defective products. For more detailed information about PoLYRENDER Thermal Facade System, the components, proper installation procedures, applications and other necessary data, please contact us.



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