

SWISS
pearl®



European design.
For the Australian landscape.

Style. Structure. Substance.

About Swisspearl

Swisspearl® sets an unparalleled standard in high-density fibre cement cladding. Available in an extensive range of colours and finishes for architectural flexibility and designed to provide maximum fire resistance for peace of mind, it's the ideal option when choosing fibre cement panels for your next project.

Swisspearl® allows you to enjoy European design for the Australian landscape.

With a range of colours, textures and finishes that's unsurpassed, as well as the versatility of custom fabrication to suit your individual needs, Swisspearl® offers endless design possibilities.

Non-combustible, hard-wearing and impact resistant, Swisspearl® high-density fibre cement panels have been designed to withstand harsh Australian conditions.

Manufactured in Switzerland with a high level of environmental awareness and installed using natural and energy efficient methods, Swisspearl® improves building exteriors both aesthetically and ecologically.

Swisspearl® is ideal for new projects as well as recladding applications, making it perfect for internal and external cladding of aged care, healthcare, government, education, commercial and residential projects.

When it comes to style, structure and substance, no one comes close to Swisspearl®.

Swisspearl features and benefits

Extensive colours and finishes

With more than 90 stunning, coloured through standard finishes divided amongst seven distinct ranges (many with their own unique finishes) Swisspearl® even offers custom colour options. Choose from multiple sheet sizes and the flexibility to cut to your individual specifications.

Classified non-combustible

A premium, non-combustible and NCC compliant product, allows architects and builders to feel confident they've chosen the right product for the project.

Highly durable and impact resistant

Tested against extreme heat, freezing temperatures and large hail impact. They are designed to resist rot. The hard-wearing, durable nature of Swisspearl® provides proven performance in all weather conditions.

Low maintenance and UV resistant

With a premium surface finish that's low-maintenance and highly resistant to harmful UV rays, designed to withstand Australia's harsh climate, even in the most remote areas.

Ideal for recladding

It's the ideal choice for rectification and recladding works where improved fire resistant cladding products are required.

Local sales and technical support

Swisspearl® is stocked locally, so it's easily accessible. We have technical expertise and sales support in each state able to assist with your specifications and order enquiries.

Sustainable and environmentally friendly

Manufactured with a high level of environmental awareness, are made from 95% cement, pulverised limestone, water and air.

Swisspearl technical data sheet

Properties	Units	Test method	Results
Physical properties			
Density	g/cm ³	EN 12467	>1.75
Weight	kg/m ²		15.7 for 8 mm
Bending strength (equilibrium)	MPa	EN 12467	>22
Bending strength (wet condition)	Class 4/Cat.A	EN 12467	passed
Modulus of elasticity (E-Modul)	MPa	EN 12467	ca. 15000
Moisture movement	%	EN 12467	ca. 0.12
Thermal expansion coefficient	mm/mK	ASTM E 228-95	0.01
Thermal conductivity	W/mK	EMPA	ca. 0.56
Dimensional tolerances			
Thickness	mm	EN 12467	±10%
Length and width	Level 1	EN 12467	passed
Straightness of edges	Level 1	EN 12467	passed
Squareness of edges	Level 1	EN 12467	passed
Durability			
Water impermeability	Category A	EN 12467, ASTM C 1185	passed
Freeze-thaw	Category A	EN 12467	passed (RL ca. 1.0)
Soak / dry	Category A	EN 12467	passed (RL ca. 1.0)
Heat-rain	Category A	EN 12467, ASTM C 1185	passed
Warm water	Category A	EN 12467	passed (RL ca. 1.0)
Fire			
Surface Burning Characteristics EN			
Fuel contributed	A2	EN 13501-1	passed
Smoke Development index (SDI)	s1	EN 13501-1	passed
Flames droplet index	d0	EN 13501-1	passed
Fire performance	Suitable where non-combustible materials are used in accordance with local building regulations		

Fire performance

Swisspearl® high-density fibre cement panels help to provide a definitive solution to fire compliance. Classified as non-combustible under C1.9(e)(iv) of the National Construction Code (NCC) deemed-to-satisfy provisions and satisfying the requirements of AS2908.2 (classification of cellulose cement products-flat sheets).

With its fire-resistant properties, Swisspearl® offers an efficient pathway to compliance with the NCC.

Swisspearl Rear Ventilated Facades



Rear Ventilated Facades have been used extensively throughout the world over many years to provide a natural, energy efficient method for cladding commercial and residential buildings.

A multi-layer construction, the system consists of a rainscreen cladding on the outer layer in combination with a frame, weather-resistant membrane, insulation, sub frame and a ventilated cavity.

A modern method of facade construction, rear ventilated facades are gaining momentum in Australia as developers, architects and builders understand the principles and advantages of rainscreen systems.

A differential between the temperature on the face of the cladding panel and the air cavity temperature creates a variation in air density, resulting in a "chimney effect" that produces upward airflow within the cavity.

As a safeguard, a weather-resistant membrane is attached to the building frame, providing an envelope. Under extreme weather conditions a minimal amount of water may pass through the joints.

Due to the ventilated nature of the system, this moisture will run down the back of the panel and drain out the bottom of the facade.

Benefits of a ventilated facade / rainscreen cladding:

Rear Ventilated Facades with their inherent airflow provide several distinct advantages over other facade systems;

Energy savings

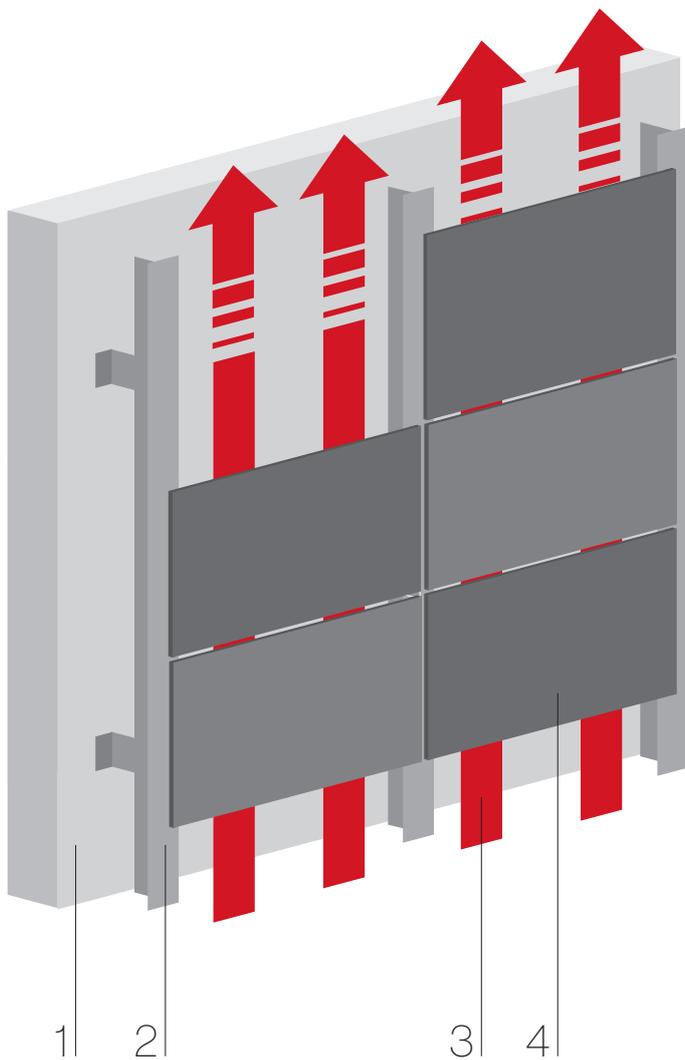
- Up to 30%
- Reduction in CO²
- Greater internal comfort

Hot climates

- Natural air-conditioning
- Heat shield
- A constant temperature

Cold climates

- Reduces thermal losses
- Enhances thermal bridging



The typical rainscreen system is based on natural rear ventilation. It is most reliable, sustainable and provides maximum longevity to exterior cladding.

Ventilated facade systems consist of four main components:

- 1 Support structure
- 2 Sub frame
- 3 Ventilated cavity
- 4 Cladding

1 Support structure

The exterior wall of a building is mainly made of concrete, CMU blocks, brickwork, steel or timber frame with studs and planked by gypsum boards.

2 Sub frame

Swisspearl® facade panels are installed on timber or metal supports.

3 Ventilated cavity

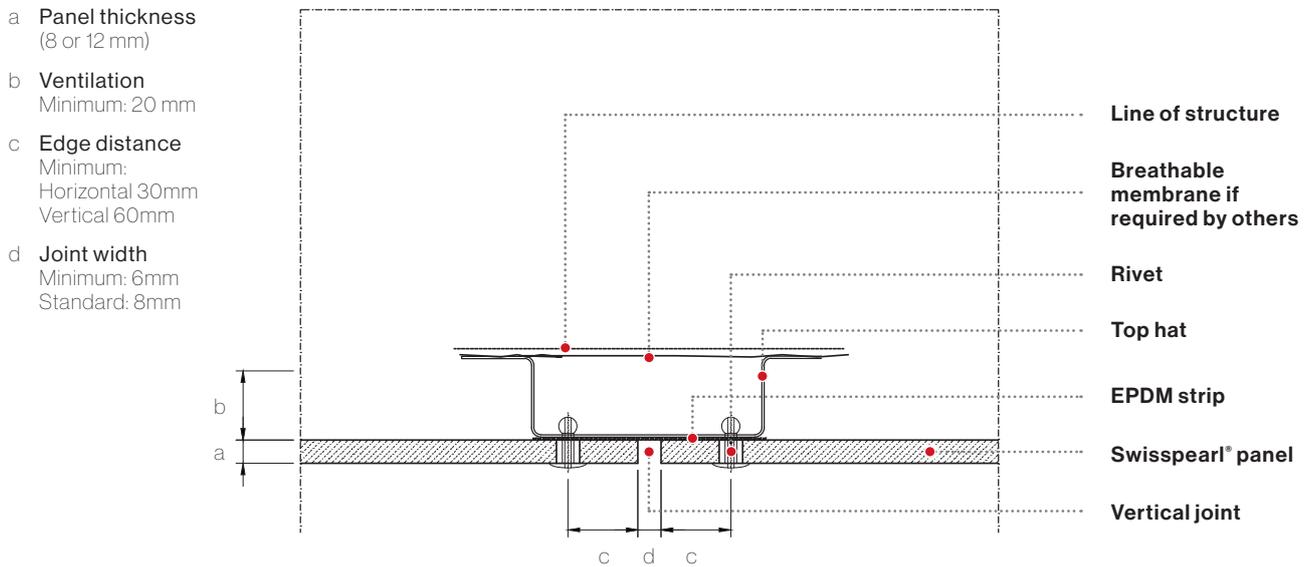
The main task of the air cavity is the evacuation of moisture and excess heat. The air circulation occurs naturally thanks to the pressure difference between bottom and top.

4 Swisspearl® cladding

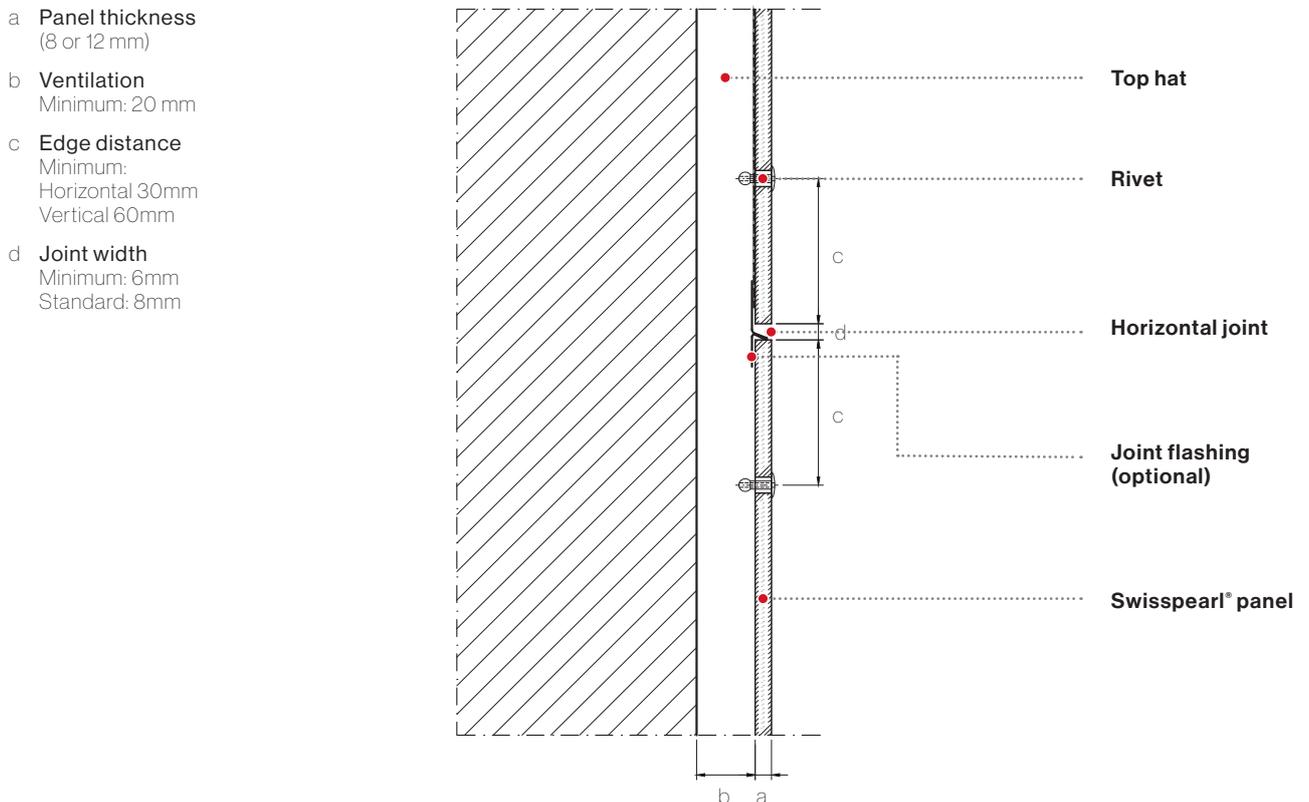
The outer skin of the building envelope has two main functions; to be aesthetically pleasing as well as protecting against influences from climate and environment.

Fixing details

Horizontal fixing (Vertical joint)



Vertical fixing (Horizontal joint)



Sustainability

Manufactured with a high level of environmental awareness, you can feel good about choosing Swisspearl® high-density fibre cement panels. 100% environmentally friendly, both the raw materials and the production process contain no harmful substances.

The fibre cement panels are made from 95% cement, pulverised limestone, water and air, while the manufacturing process uses a closed water cycle and a slow natural curing time, so it consumes far less energy than the production of most other building materials.





Certified
Non-Combustible
to AS1530.1

**SWISS
pearl®**



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