



FAIRVIEW™

DEFINING ARCHITECTURE SINCE 1983



clayton™

TERRACOTTA FAÇADE SYSTEM / MANUFACTURED BY FAIRVIEW

PRODUCT INFORMATION

ABOUT CLAYTON™

Terracotta is an enduring material used for millennia across many applications. Whether utilised as a building product, decoration, crockery or symbolism as in the case of the terracotta warriors, terracotta offers unique features unmatched by any other material.

Formed from the earth's renewable resources and recreating popular natural aesthetics, façade products such as terracotta cladding allow occupants to experience the raw beauty of the earth's elements, while also complying with sustainability requirements for new builds. Terracotta cladding systems also deliver on durability and long-term sustainability, acting as rainscreens for energy efficiency and protecting against impact and weather damage.

Biophilic designs, which incorporate nature and evoke human experiences with the natural world, are in high demand. Natural materials have the ability to make a stunning visual impact and also help building occupants connect with nature. The versatility of materials such as terracotta tiles means design expressions can be limitless, with wide varieties of colours, glazes, textures and styles available.

Although terracotta has been used for several millennia, modern production techniques and the knowledge gained over many hundreds of years has resulted in a product that is of the highest quality, strength and durability.

Clayton™ Terracotta Façade System combines the charm of terracotta with modern production techniques to offer a range of high performing façade products that meet design and building requirements.



PRODUCT FEATURES

Manufactured from clay, sculptured into shape and then fired at high temperatures, Clayton comes in a range of colours and textures that offer warmth and a tactile sensation that is not achievable with other building products.

The mass and density of the terracotta tiles combine to create higher thermal insulation, improved noise reduction, as well as UV and weather resistance that are far superior than other façade products. Clayton is deemed non-combustible under C2D10(5)(G) NCC 2022 and is suitable for type A, B and C constructions, including public buildings and high traffic areas such as schools.

Clayton is a truly low maintenance building product that is aesthetically pleasing, eco-friendly and a sustainable alternative to achieving beautiful biophilic designs.

KEY FEATURES



COLOURS

Incredibly versatile in colour, Clayton blends beautifully with palettes featuring both warm and cool shades. By blending different types of clay materials and controlling the firing temperature of the kiln, it is possible to produce a variety of natural fired colours. Pigments, oxides and glazes can be used in the clay to extend the range of colour options available to achieve any desired colour, tone or finish. A unique feature of terracotta is the result of the firing process during manufacturing which essentially locks the colour into the panel, ensuring your design will last for the life of the building.



TEXTURES & FINISHES

Available in different textures, this allows designers to play and experiment with the shadow effects on the structure. Clayton terracotta façades can be processed with a wide variety of surface texture treatments, including natural, sandblasted, wire struck, corrugated, grooved and linear. This feature of Clayton offers limitless design options for architects.



SHAPES & PROFILES

Terracotta cladding is no longer confined to a flat shape. Advances in production technology now means terracotta façades can take almost any shape, size and finish. The cladding can also be installed both horizontally or vertically, maximising the design flexibility for a project. Available as a façade or sunscreen system, Clayton offers unparalleled beauty, creativity and aesthetics to a building.



DURABLE & LONG LASTING

Terracotta as a natural material is robust and resistant to damage, helping to create a façade that will retain its appearance and have minimal impact on the environment due to reduced wastage and replacement rates. Its life expectancy far exceeds that of other cladding materials.



ENERGY SAVINGS & THERMAL BENEFITS

Clayton terracotta façades are able to withstand harsh weather conditions and protect the building to improve energy efficiency. Clayton is available as part of a rainscreen system, with a ventilated cavity to help keep a building's airflow and temperature regulated. Due to their higher thermal mass, materials such as terracotta reduce thermal transfer of heat to the rest of the building, and assist in maintaining the desired internal building temperatures.



COST EFFECTIVE & EASY INSTALLATION

Clayton terracotta façades come in easy-install systems for convenience, efficiency and the ability to install across large-scale façades with reduced labour, time and costs. The terracotta rainscreen cladding system does not use grout or sealants, therefore, reducing the need to maintain the joints. The surface of the Clayton terracotta façade is anti-static and therefore dust resistant. If the surface is dusty, it is easily washed off by rain. This self-cleaning function can reduce the cleaning and maintenance costs of Clayton, especially for high-rise buildings.



SAFE, ECO-FRIENDLY & SUSTAINABLE

Terracotta is an environmentally friendly material made from 100% clay that can be easily recycled, repurposed into other uses or broken down quickly and put back into the Earth, reducing the amount of waste that ends up in landfill. Made from the earth's natural resources with minimal processing, natural cladding materials reduce energy consumption in manufacturing.

PRODUCT RANGE

Clayton is available in a range of profiles and surface textures, designed to achieve impactful visual effects for any design.

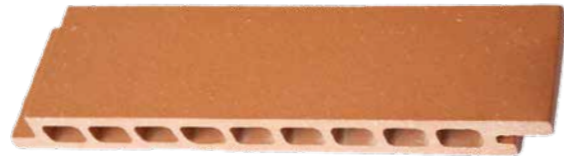
The three ranges include Standard, Specialist and Baguettes.



STANDARD RANGE

Contemporary design in a sleek, minimalist and streamlined look that integrates seamlessly with modern architectural design. The sharp straight lines create distinctive shadow lines that add to the elegance of the textured and natural look of terracotta cladding.

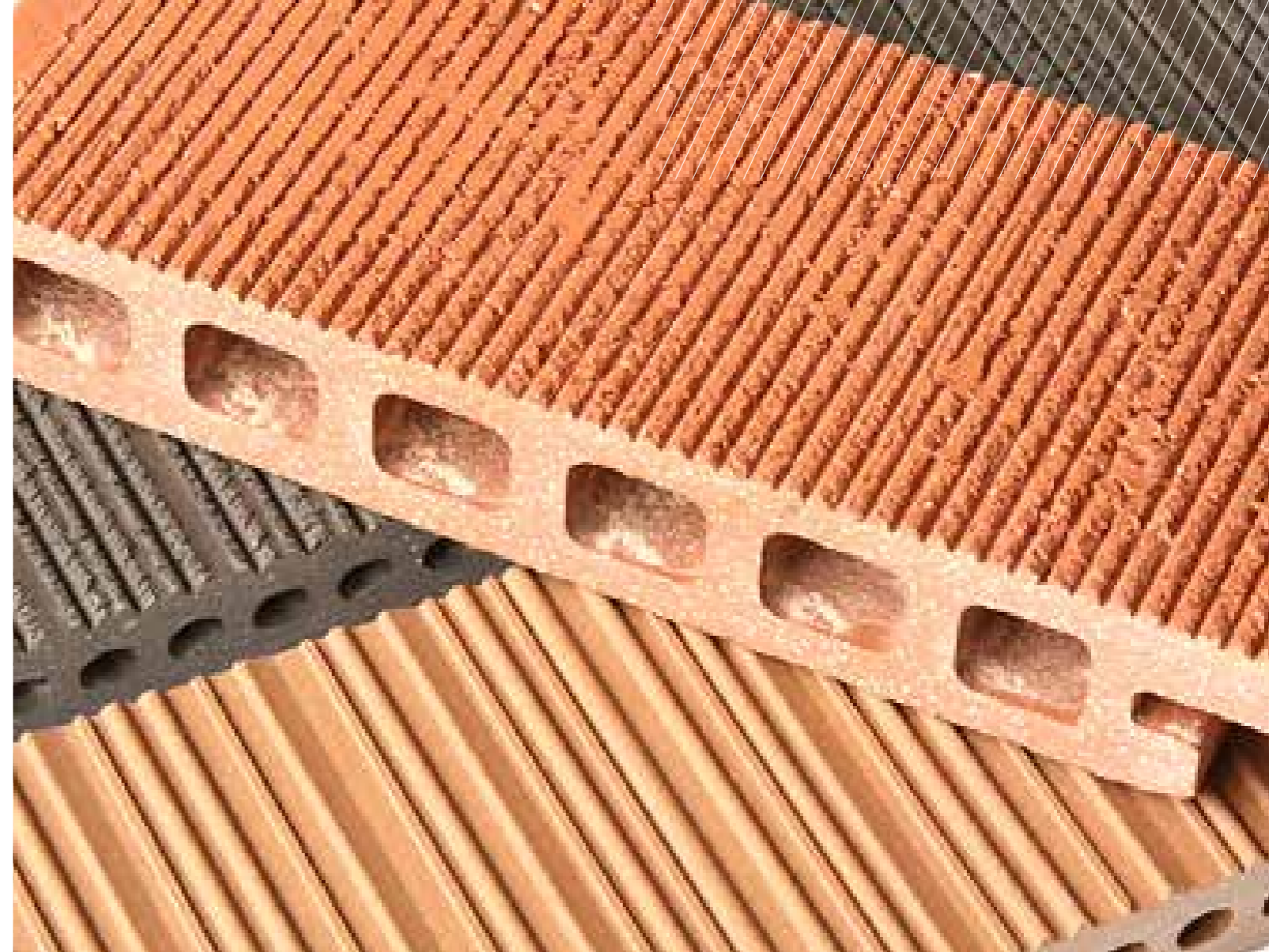
TERRAIN 18MM | 30MM



UNDULAR 18MM



Emphasising movement and change, Undular is an evolution of the contemporary sleek flat tile to emphasise fluidity, dynamism and a gradual yet repeating change of form and shape.



Raised parallel lines add a tactile experience from smooth undulating form to coarse textures that add weight and provide a creative play with light and depth.

STRADIC 18MM | 30MM



ALTIVO 20MM



LINEO 30MM



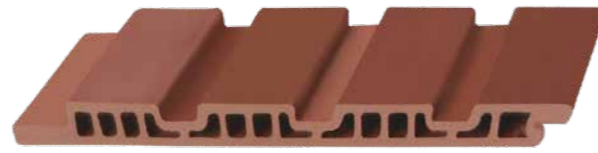
SPECIALIST RANGE

Shadow lines provide a creative play with light and depth, adding shape and size to the façade to create an evolving perspective to the building's appearance.

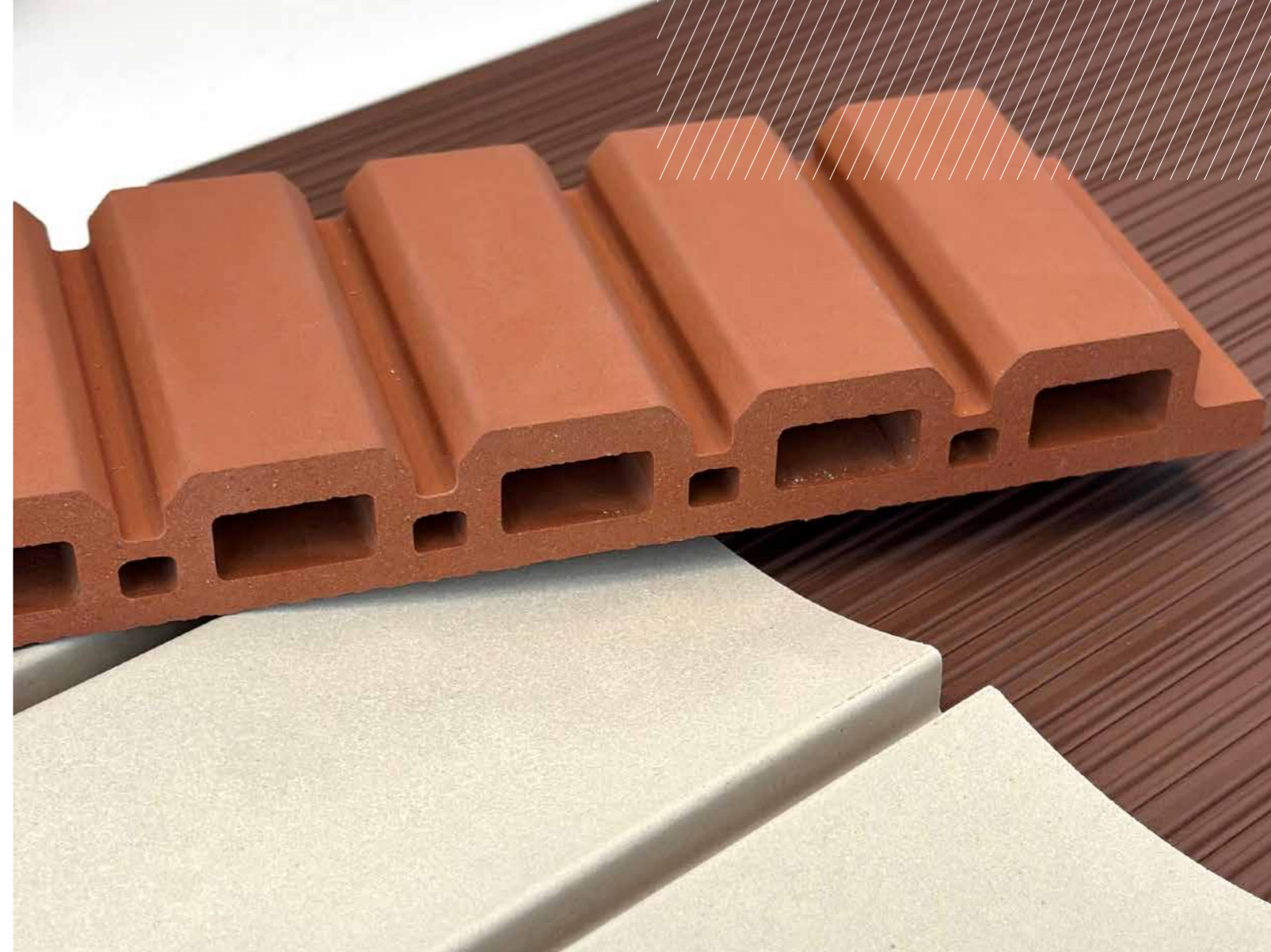
GROOVE 18MM | 30MM



GROOVE 3 30MM

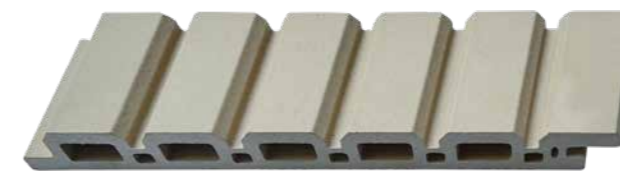


GROOVE WIDE 30MM



Creative shapes add three-dimensional form to the façade, stimulating an awareness of geometry, structure and shape. The three-dimensional form with rounded corners creates a feeling of smoothness and softness, while the sharp lines and edges depict strength and presence.

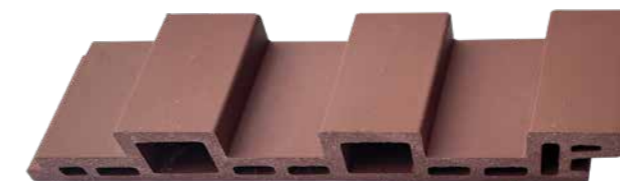
OCTAL 30MM



CONCAVE 30MM



BATTEN 30MM



BAGUETTES RANGE

Used as an architectural design element, baguettes add colour, depth and form to any building while also being used as a sun shade or screen. Available in various shapes and colours, baguettes will add a distinctive modern appearance while reducing the amount of radiant heat reaching the building.

SQUARE



LOUVER



CIRCULAR



LAMERA



RECTANGULAR



CAMBERED



ARC



FINISH

A deep, rich and curated colour palette, rendered and perfected over the years. Earthy and natural variations add to the character and warmth of a terracotta façade to build distinctive and elegant spaces that attract connectedness and comfort that's achieved through biophilic design.

With over a millennia of development, modern production techniques means almost any colour, shade and surface texture is achievable. Clayton offers a wide range of standard colours and specialised finishes to choose from.

STANDARD COLOURS



Colours shown are as accurate as possible, however, due to the limitations of the printing process and lighting changes we recommend requesting a production sample for final colour selection or approval.

A unique feature of Clayton façades is that the colour never fades.

This is thanks to the firing process which vitrifies the tile and locks the colour into the tile, meaning the tile won't change colour over its lifetime.

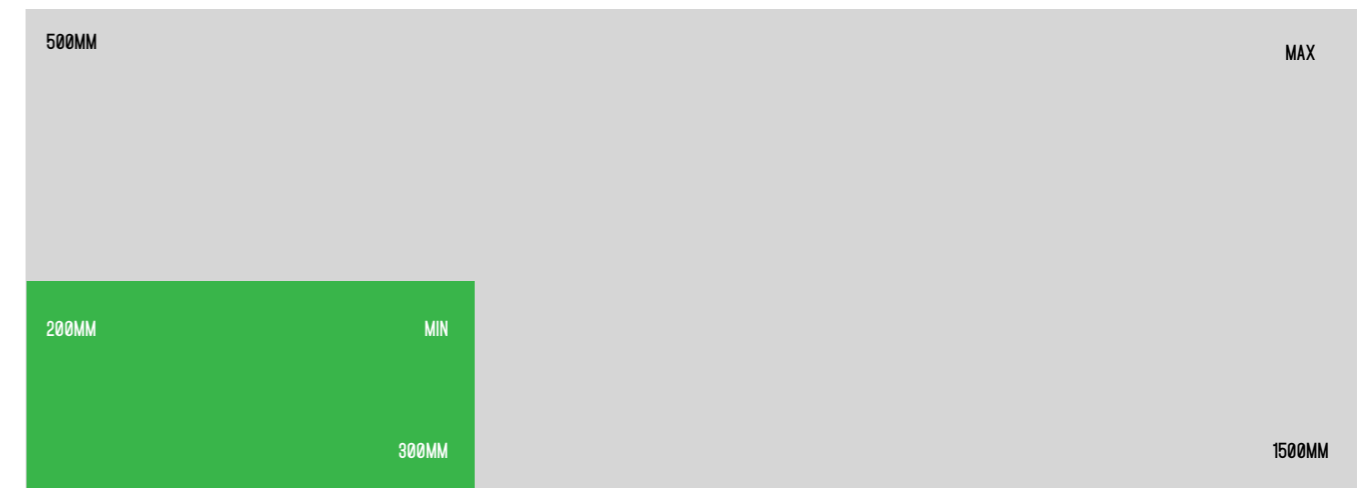
SPECIALISED FINISHES



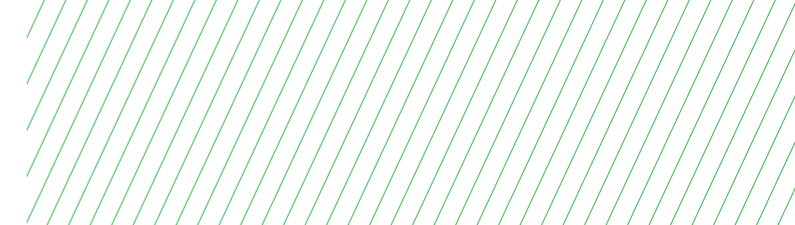
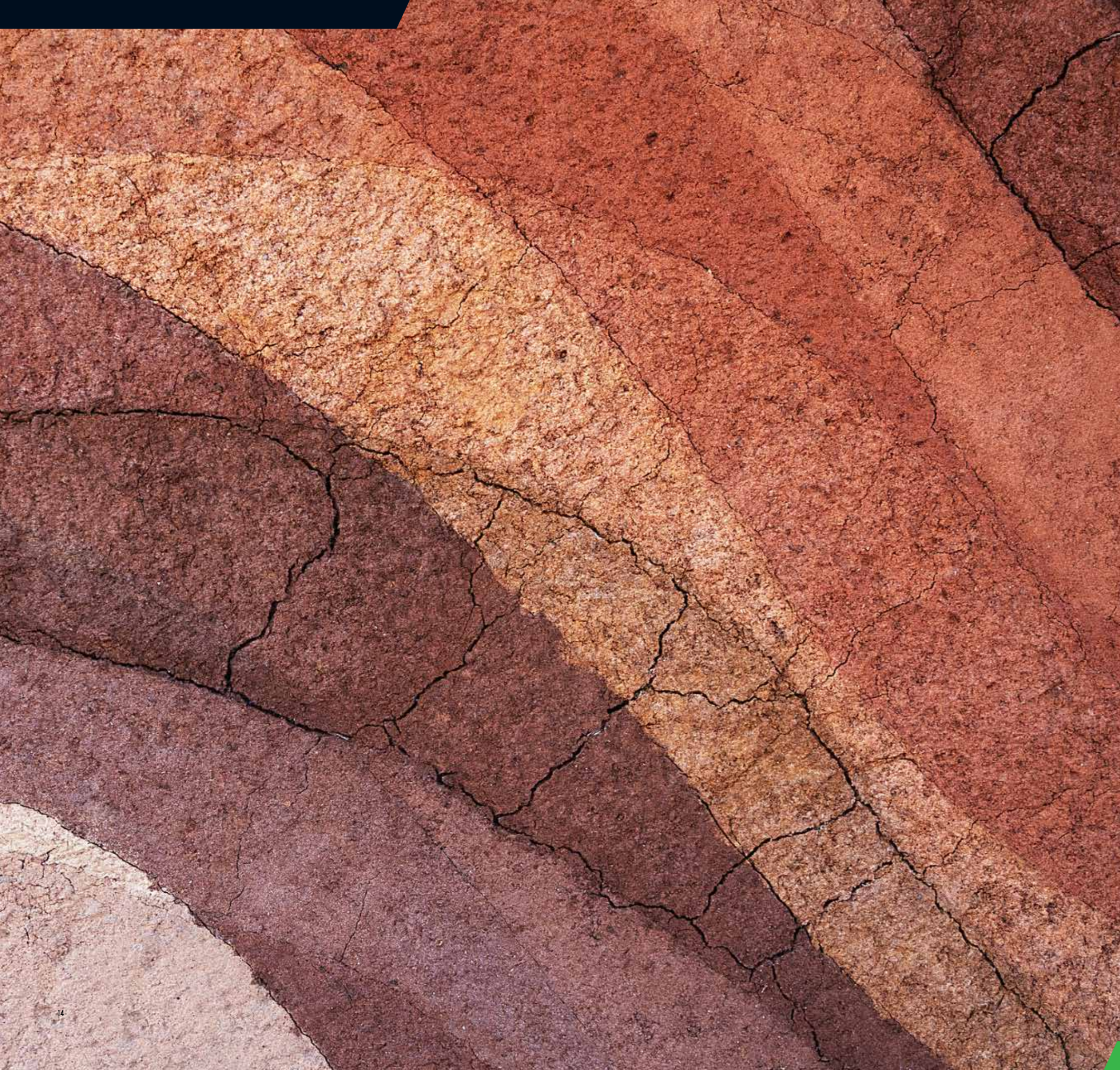
PROFILE SIZING

In conjunction with a versatile finish range, Clayton terracotta façades are offered in a number of profile sizes.

PROFILE SIZING		
Thickness	Length range (mm)	Standard width choices (mm)
18mm	300-1500	206, 306, 356, 406, 456, 506
20mm	300-1500	206, 306, 406, 456, 506
30mm	300-1500	210, 310, 360, 410, 460, 510



* Custom profiles and sizes are available. Please contact a Fairview representative for more information.



TERRACOTTA'S CIRCULAR LIFE

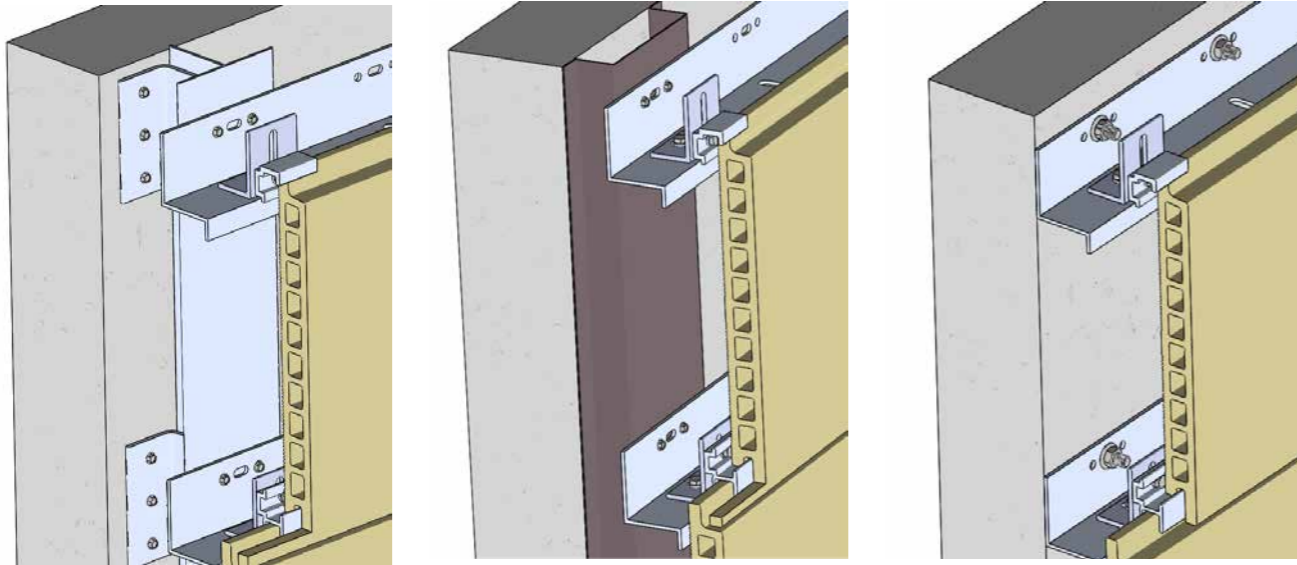
Clayton terracotta façades are designed and manufactured with a design life exceeding 50 years. Because of this, Clayton can ensure long and reliable protection to your building, while also maintaining the natural beauty of textured natural products.

At the end of its life on a building, Clayton terracotta cladding can be crushed to stones that are normally used as a road base or in landscaping, extending the usable life of the terracotta for many more years.



Crushed terracotta offers a great alternative for landscaping. Offering an eco-friendly yet durable material that can withstand the elements.

FIXING SYSTEM



WALL BRACKET & T-PROFILE

The substructure consists of vertical T-profiles, anchored to the building with wall brackets. Clayton tiles are fixed by aluminium clips to the vertical profiles. This fixing method provides the maximum cavity depth allowing for insulation to be placed within the façade cavity.

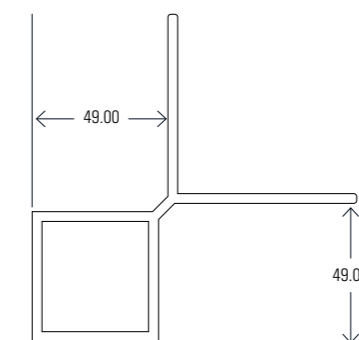
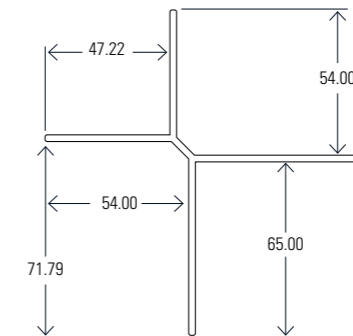
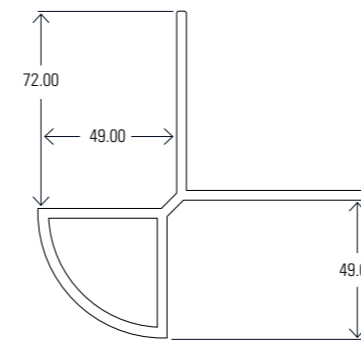
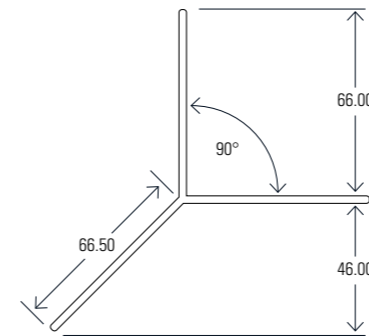
TOP HAT

The substructure consists of vertically mounted top hats installed at predetermined distances, depending on the loading requirements for the building. The vertical top hats permit the tile carrier to be fixed to the substructure allowing the terracotta tiles to be fixed onto the façade.

STUD WALL

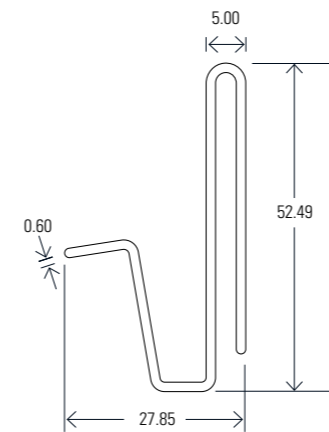
The substructure consists of the tile carrier rail mounted directly onto the stud framing. This fixing method allows for the shallowest depth cavity, while the minimum use of sub-framing components speeds up the installation process and reduces the installation costs.

ACCESSORIES



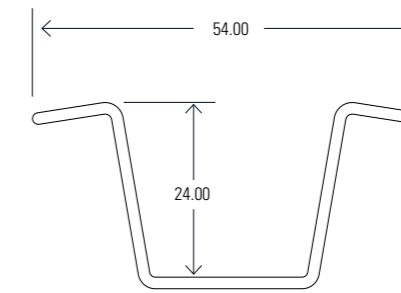
CORNER PROFILES

Aluminium corner profiles will be supplied in mill finish aluminium or powder coated black as standard. Other colours are available on request, however colour selection should be based on RAL colours.



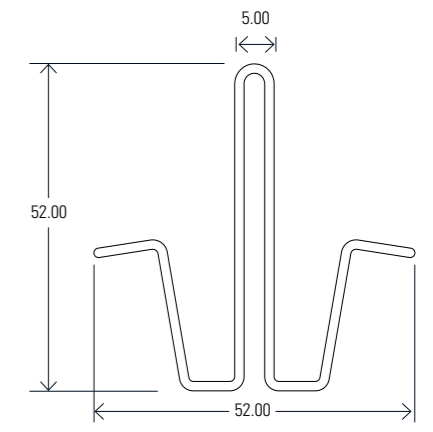
JOINT ABUTMENT PROFILE

Abutment joints are designed with a joint width of 5mm.



SPRING PROFILE

Spring profiles are used for connections such as building corners with a miter cut where no joint profiles are possible. The Spring profiles keep the tile locked into the clip and reduce the likelihood of movement.



JOINT PROFILE

Made from roll formed steel, joint profiles are available in 5mm wide vertical joints in a length of 3m. They are supplied in the Monument colour as default, but can be offered in any Colorbond colour as requested.



WHY VENTILATED FAÇADES?

Ventilated façade systems, also known as double-skin façades or rainscreens, greatly assist in protecting buildings against wind, rain and temperature variations, keeping the building dry and energy efficient.

A ventilated façade system consists of two layers of different façades separated by an air cavity which prevents rainwater from penetrating and diffuses water vapour from the inside. While the external cladding protects from rain and wind, the air cavity plays a major role in the ventilated façade system. A naturally ventilated façade results in a temperature difference between the face of the cladding panel and the air cavity behind. This in turn creates a variation in air density causing air to flow upwards within the cavity, resulting in a chimney effect. The airflow transports heat from the cavity out through openings at the top of the wall, reducing humidity and increasing the efficiency of insulation.

Benefits of ventilated façades:

THERMAL

Significant reductions in HVAC reliance through:

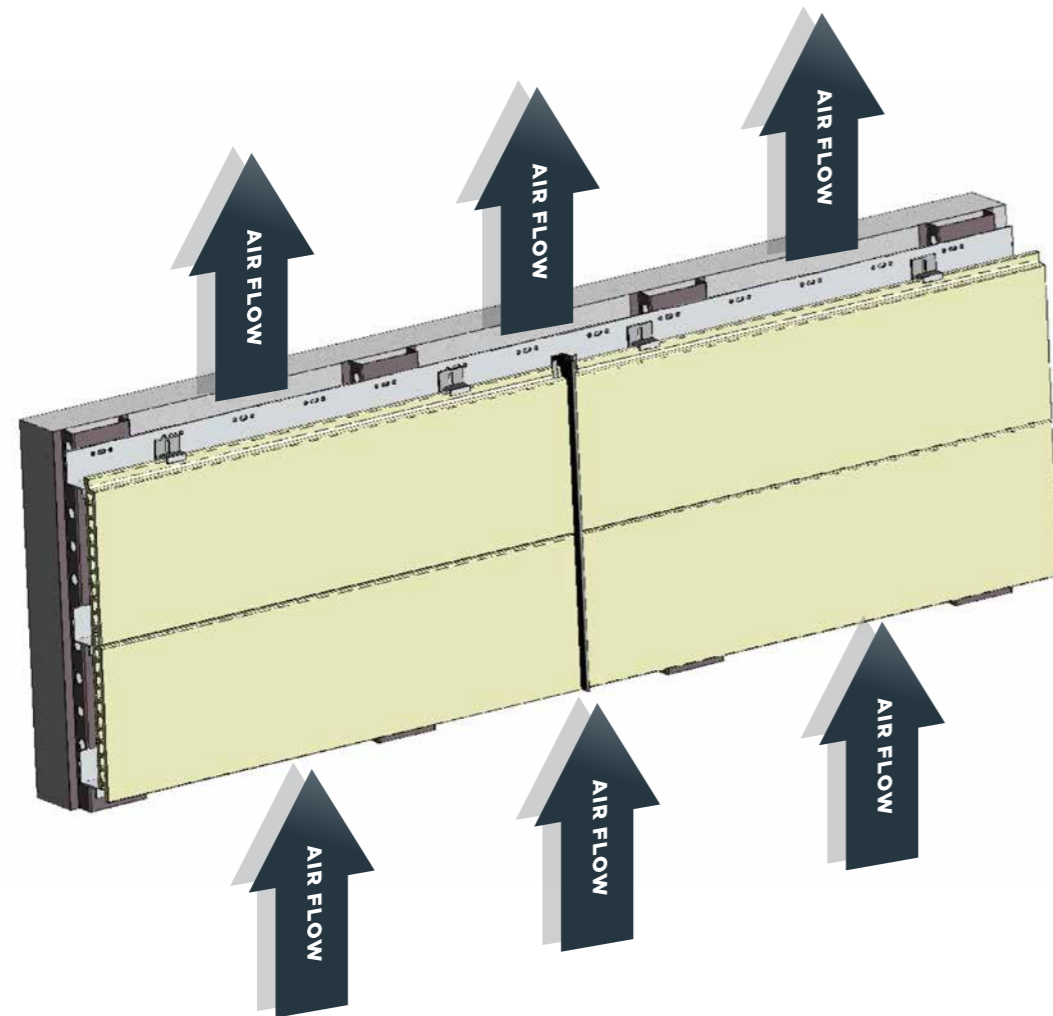
- A reduction in the amount of heat the building absorbs in hot weather conditions from the partial reflection of solar radiation by the outside façade, and the naturally ventilated air cavity.
- In cold weather conditions ventilated walls retain heat, resulting in a lower reliance on heating. HVAC electricity consumption typically accounts for around 40% of total building consumption.

ACOUSTIC

Ventilated façade systems, coupled with the higher thermal mass of Clayton terracotta tiles, results in lower noise absorption. With road traffic noise being the primary source of external noise affecting buildings, a reduction in noise transfer into the building can greatly improve occupant comfort.

MOISTURE MANAGEMENT

Ventilated façades don't suffer from mould, fungi and rot, making them extremely durable and virtually maintenance free. The natural bottom-to-top airflow through the cavity assists in eliminating moisture accumulation on the façades, helping to prolong the structural integrity and ultimately the lifespan of a building.



WARRANTY

Clayton Terracotta is an incredibly durable material when used in the right application.

Clayton Terracotta includes a 15-year warranty, subject to standard terms and conditions.

DISCLAIMER

While the information provided relating to Fairview Architectural products is true to the tests and measures available to us, the information provided in this brochure is general in nature and does not constitute project-specific building, construction or fire-safety advice. Before acting on any information in this document, you should consider the appropriateness of the information in regard to your project parameters and requirements. Fairview products are deemed suitable or compliant after approval from building and construction professionals associated with specific projects and developments. If you'd like some further insight about this topic, contact Fairview on 1800 007 175 or email helpdesk@fv.com.au. We're here to see how we can help.





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