

 **Petrarch[®]**

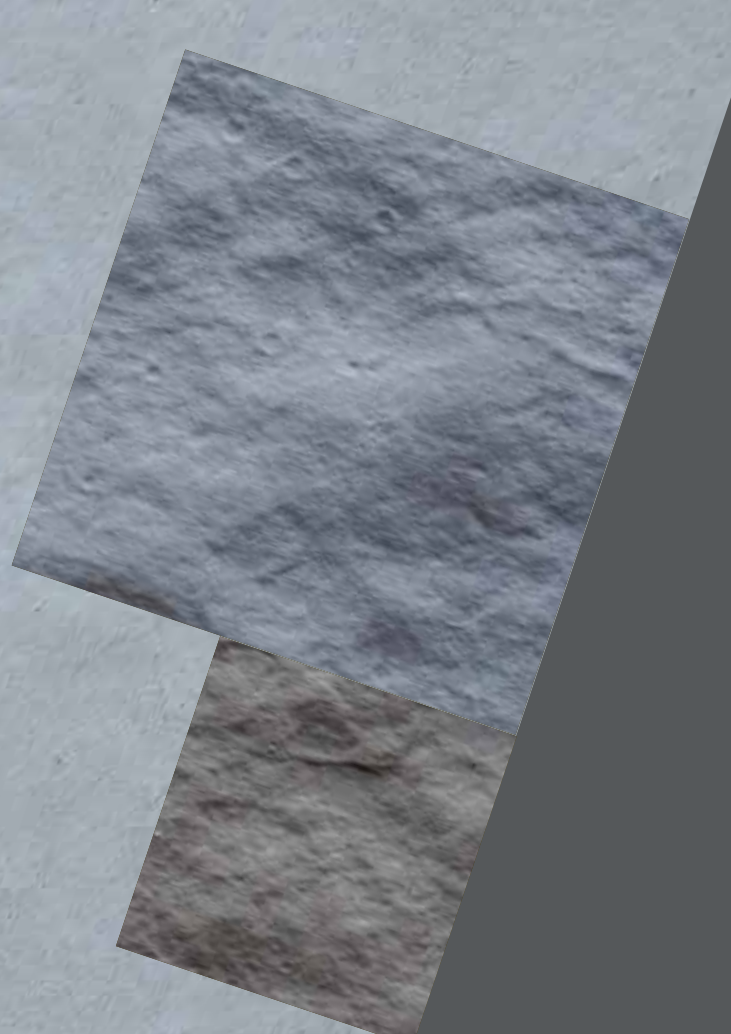
the natural choice



elemental
Architectural Cladding Specialists

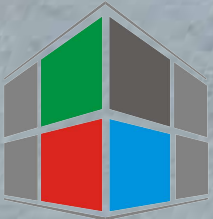
Architectural
Panel Solutions

the
natural
choice



Unlock the potential that only a construction product with such natural beauty, strength, durability and a superb choice of colours and finishes as Petrarch, can give you. This reconstituted stone cladding panel offers you all of these, which is why Petrarch continues to be the choice of architects and specifiers for nearly 50 years.

With Petrarch, beauty is more than skin deep and, just like a material made by nature, it is equipped to endure the worst that nature can throw at it. And just like a natural material, it can cleverly blend with its surroundings or provide a stunning contrast as your design demands.



elemental
Architectural Cladding Specialists

contents

Introduction	4
Advantages	5
Colours	6
Textures	7
Finishes	8
Patterned	46
Details	48
Colour & Texture	50
Fixings & framing	52
Performance	53
Environmental	54
Contacts & further support	55

introduction

Architectural Panel Solutions is a leading UK manufacturer and supplier of rainscreen cladding panel and framing solutions.

Petrarch is a man-made alternative to natural stone cladding which offers all the same attributes whilst providing some key benefits such as ease of use and flexibility in design.

Our expertise and experience in both manufacturing and supplying cladding systems enable us to meet or exceed all the requirements of today's demanding building designs and specifications.

Petrarch cladding is aesthetically pleasing, easy to design, easy to fit and will last year after year, after year.

This, together with our understanding of your requirements, also means that as a supplier, we are as easy to work with as our product range. We'll advise you on any technical or commercial aspect of cladding, help you conform with the most stringent specifications and also assist you in achieving the most economical solution, even when specifying bespoke panels.

With safety at the forefront of everything we do

Architectural Panel Solutions has embarked on a programme to demonstrate that Petrarch has exceptional fire performance, particularly for use in high-rise new build and in over-cladding applications.

Petrarch is fully BBA approved and has achieved a Class 0 (or low risk) for UK standards. The test indicates that the product is low risk with minimal contribution to the fire load. In addition, Petrarch has been tested in accordance with the European classification EN13501-1 as Class A2-s1, d0.

Petrarch, as part of a standard assembly, was tested in accordance with BS8414 part 2 as part of the BRE 135 guidelines.

In the US, the National Fire Protection Association (NFPA) 285 fire test has become the benchmark for establishing the flammability characteristics of non-load bearing wall assemblies and has become a mandatory requirement in many states for buildings over 40ft high. Petrarch was tested as part of a standard façade assembly and passed in accordance with NFPA 285.

so naturally beautiful
and rugged, yet light
and easy to install

advantages

Architects and specifiers have long been aware of the advantages of man-made reconstituted stone panels over natural stone. With Petrarch, we've developed and perfected the art of producing this alternative.

Petrarch enables you to design in individuality and style combined with environmental durability, high impact resistance and freedom from maintenance.

Petrarch is available in a wide range of colours and finishes with two different thicknesses, so there's bound to be one that's perfect for your application. If not, we can create your project specific colour and finish, giving you unlimited design possibilities and freedom.

Petrarch is considerably lighter in weight than its natural stone counterparts, driving down construction time and costs.

The installation cost is usually a fraction of that of stone, allowing striking finishes to be achieved within realistic construction budgets.

cutting-edge aesthetics and superb durability
in even the most severe environmental
conditions makes Petrarch the natural choice.



Petrarch is BBA accredited and is manufactured in Hastings under ISO 9001 quality management system.

colours

an almost unlimited
range of colours...
a plethora of
creative possibilities

Think of a colour...

With an astounding 1,500 colours in the Petrarch Palette to date, there's a very good chance that you will find what you're looking for. Whether used outside or inside, all are designed to enhance the natural environment of a building and complement the landscape – or create a startling statement.

And as if 1,500 colours weren't enough, we can also manufacture Petrarch in a virtually unlimited range of custom, or colour matched hues to meet the most challenging architectural brief and complement your creative thoughts.

Because of how it's formed, quarried and weathered, natural stone comes in different surface finishes and textures. Why should man-made materials be any different?

With Petrarch, you get a choice of four different standard finishes to lend even more individuality and style to any building. Choose from a traditional riven finish that replicates the surface of slate, a contemporary smooth finish and a textured matt finish to either.

Choice of texture adds a tactile dimension to product selection. By designating the surface finish and patternation the colours gain additional character and depth.

textures

riven, smooth, smooth matt or riven matt...
beautiful but practical textures
with individual style

Every finish is available in all of our 1,500 colours or any bespoke colour, providing an almost unlimited number of combinations to satisfy your creativity.

Petrarch panels can also be honed or supplied with a range of factory applied coatings. These coatings can be used to provide exceptional anti-graffiti properties or simply seal and enrich the panel surface.

Ask us about our new custom 3D surfaces adding further depth and character to any colour.

riven

smooth

smooth matt

riven matt

the naturally striking appearance
of slate that has weathered the
elements for millennia

Guilford Baptist Church - Guilford
Colour: Limestone Riven

riven



Blackwell Reach - London
Colour: Heather Riven, Aluminium Riven
and Alabaster Smooth Matt

riven



A1 Retail Park, London Road, Biggleswade
Colour: Dorset Riven

• riven



• riven



riven

North West Kent College, Dartford
Colour: Aluminium, Alabaster, Graphite
and Russett Riven

riven



riveren



Eagles Meadow, Wexham
Colour: Heather River and Graphite River

riveren



smooth

Holiday Inn Express, Southwark, London
Colour: Dorset Smooth Matt

smooth

a contemporary surface
that adds an elegant,
subtle finish to
any building

smooth

smooth

Tillemann House, London
Colour: Dorset Smooth Matt

smooth

smooth



Station Harderwijk, Netherlands
Colour: Limestone Smooth Matt

smooth

smooth

Industry Engagement Building, University of Strathclyde
Colour: #1102B (Special) Smooth Matt

smooth

smooth

Technology Innovation Centre - University of Strathclyde
Colour: #11102B (Special) Smooth Matt



matt

Dexion House, London
Colour: Dorset Smooth Matt

matt



matt

Royal Wharf, London
Colour: #1158B (Special) Smooth Matt

matt



matt

Sherwood Court, London
Colour: Alabaster Smooth Matt and #11811 (Special) Smooth Matt

matt

Capital Judicial Centre, Augusta, Maine
Colour: Dover Smooth Matt

matt



riven

Hyatt Place, Portland, Maine
Colour: Graphite Riven and #1100 (Special) Riven

riven

matt



Hogeschool Stenden, Leeuwarden, Netherlands
Colour: #1214 (Special) Smooth Matt

matt





Radisson Blu, Bruges
Colour: Graphite Riven and #1100 (Special) Riven

matt

University of Massachusetts
Football Performance Centre
Colour: Graphite Smooth Matt

matt

matt

Southwestern College, Chula Vista, CA
Colour: Light Stone River n Matt

matt



The Natural History Museum - London

Visions of the solar system The planets

That planet will resemble us that
the Earth is a rocky mass in space
To show the nine planets including
the Earth, together with some of
the satellite moons.

The Earth-like planets

Mercury, the innermost planet, has no
atmosphere. Its surface reaches 500°C on the
side facing the Sun, dropping dramatically to
-170°C on the dark side.

Venus is most like the Earth in size and mass. It
is hot, however, with a temperature of 460°C. The
atmosphere is so thick that it traps heat, making
it almost impossible to breathe.

Mars, located from the Sun after the Earth,
is a dry, rocky planet with a thin atmosphere
consisting of carbon dioxide.

Planet Earth

At 12,756 miles (20,535 km) in diameter, Earth
is the only planet known to have liquid water
on its surface. It is the only planet known to
have a breathable atmosphere.

The Earth's atmosphere is made up of gases
that allow life to exist. It also protects the
planet from harmful solar radiation.

patterned

highly intricate
and striking designs
can be created, adding an
exciting new visual element
for architects and designers



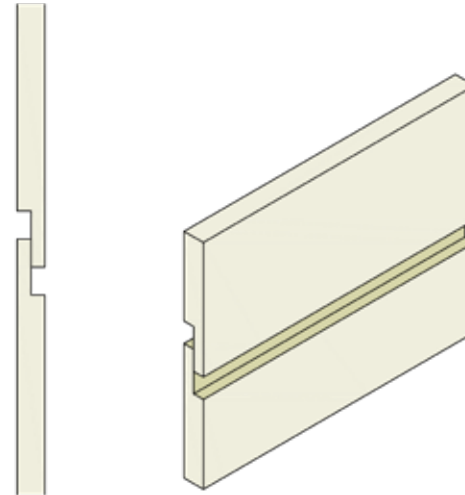
Mont Blanc - Chicago, Illinois

The small attention to detailing ensures that the profile is seamless, complimenting the overall look

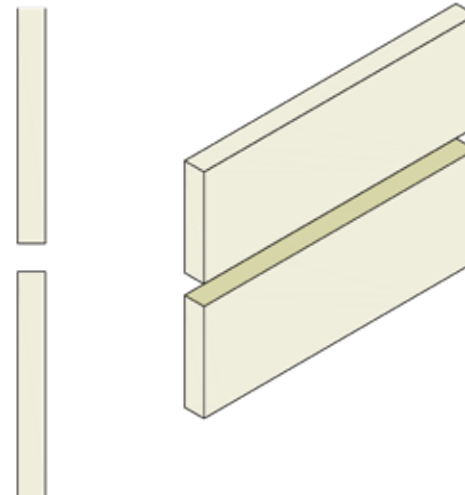
details



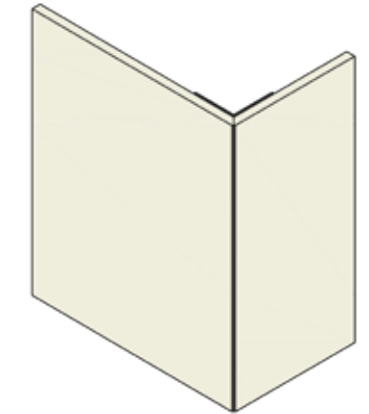
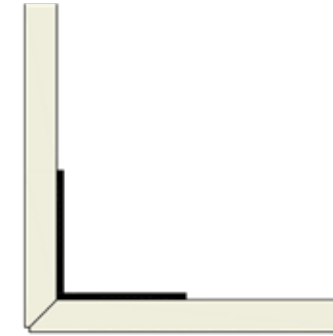
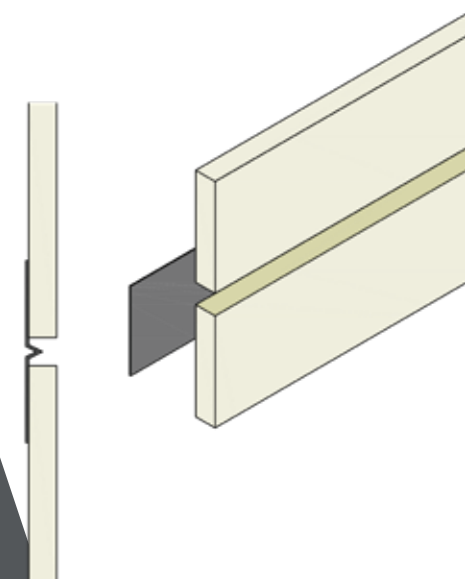
Martlett Joint



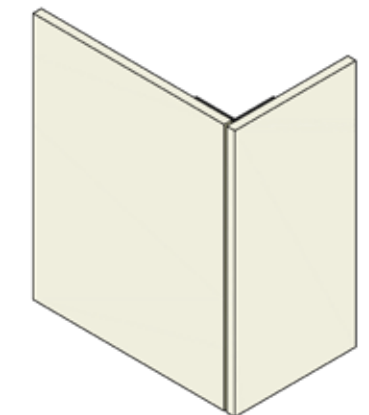
Open Joint



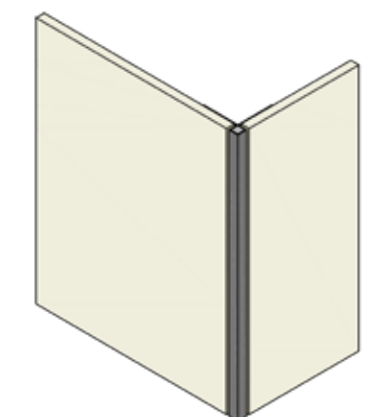
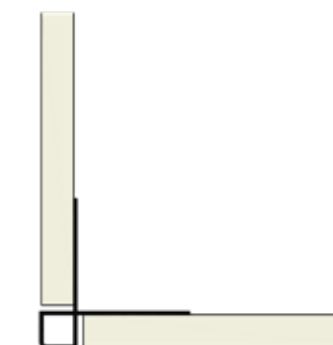
Closed Joint



Prefabricated mitred corner



Open corner



Closed corner

colour & texture

	Riven	Smooth	Matt
Alabaster			
Limestone			
Portland			
Dover			
Dorset			
Parchment			
Light Stone			

Set your designs free

Choose from a range of 1,500 beautiful standard colours and textures or set your designs free with unlimited bespoke colours.

	Riven	Smooth	Matt
Terracotta Red			
Arizona			
Aluminium			
Ash			
Pewter			
Heather			
Graphite			

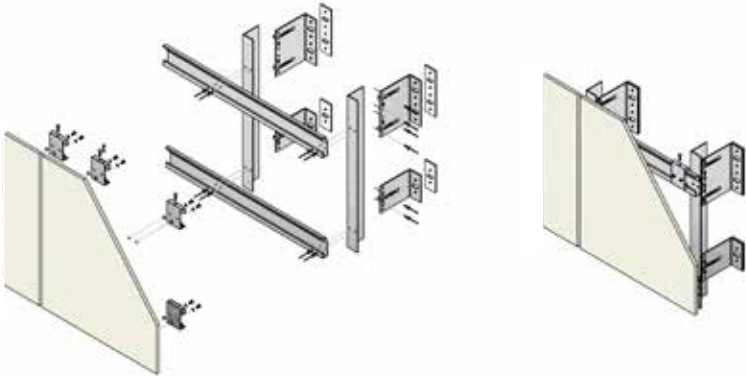
fixing & framing

Petrarch panels can be fixed to rainscreen framing easily using a mechanical secret fix to brackets or face fixed with rivets.

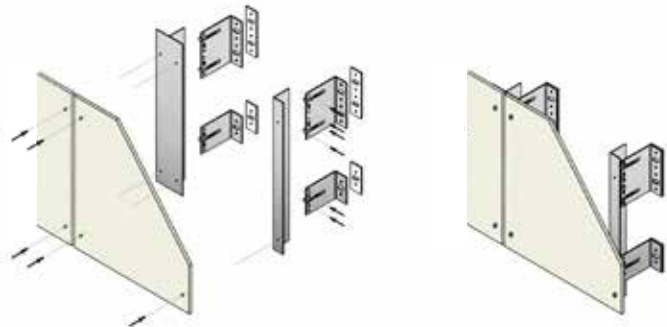
Architectural Panel Solutions have many suitable types of rainscreen support systems which have been developed to suit Petrarch.

Visit www.architecturalpanelsolutions.com to find out more.

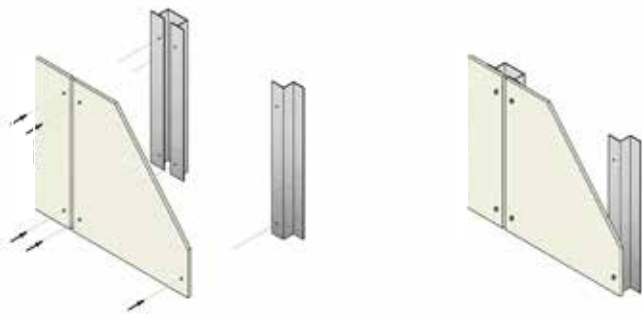
Mechanical Secret Fix



Face Fix – rails and brackets



Face Fix – omega and zed sections



performance

The performance and physical properties of Petrarch – particularly durability, flexural strength and weight savings – offer many benefits over natural stone, slate, terracotta, precast concrete and glass reinforced concrete.

The main characteristics are detailed below.

DIMENSIONS

Normal Thickness	7 mm	10 mm
Sheet Sizes	2400 x 1200 mm	2400 x 1200 mm
	3000 x 1200 mm	3000 x 1200 mm

PROPERTIES

Weight	15.7kg/m ²	22kg/m ²
Flexural strength	25MPa	25MPa
Modules of elasticity	11,000 MPa	11,000 MPa
Moisture absorption	0.1% by weight (24 hour total immersion)	0.1% by weight (24 hour total immersion)
Impact resistance	2.0J	3.5J
Coefficient of expansion	22 x 10 ⁻⁶ /°C	2 x 10 ⁻⁶ /°C
Building material class	A2-s1, d0 EN 13501-1	A2-s1, d0 EN 13501-1
National fire rating	Class 'O' BS 476 Part 6 & 7	Class 'O' BS 476 Part 6 & 7
Assembly fire tests	BS8414 part 2, assessed by BRE135 NFPA 285 – Pass	

WEIGHT KG/M²

		0	25	50	75	100	125
MATERIAL	THICKNESS						
High pressure laminate	6						
Fibre cement board	6						
Glass	6						
Petrarch	7						
Petrarch	10						
Marble	30						
Granite	40						
GRC (Glass Reinforced Concrete)	15						
Slate	25						
Precast concrete	100						

environment

our commitment

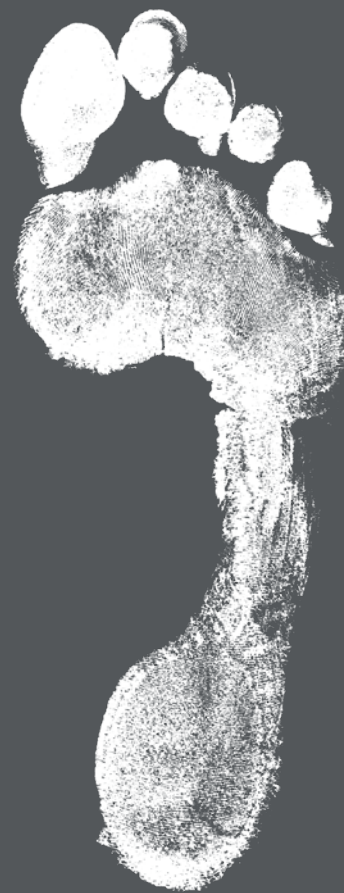
At Architectural Panel Solutions we realise the important part we play in protecting our environment for future generations, which is why we are doing everything we can to minimise our carbon footprint. Not only in the manufacture of our products and the sourcing of raw materials, but also in their application and long term impact.

manufactured in the UK

Petrarch has been manufactured in the UK for nearly 50 years, and panels can be ordered cut to size at the factory and fully fabricated, reducing offcuts and waste at the construction site.

recycling

When packing the panels for transport to the site, we use the minimum of packaging materials, which consist of recycled cardboard and wood for a pallet base allowing for easy recycling.



contact & support

Enduring beauty

Choosing Petrarch brings you individuality and style combined with extreme environmental durability and low maintenance. Petrarch's wide range of colours and textures enables architects and designers to create beautiful buildings in a sustainable and eco-friendly way – and at a fraction of the cost of its natural stone counterparts.

Complementary samples

We are happy to send you free samples of this stunning material. Please contact our dedicated customer service team on +44 (0)1424 852641.



Workshops

If you would like to find out more about Petrarch and our other rainscreen products, why not book a CPD workshop with Architectural Panel Solutions expert advisers.

During the workshop you'll find out all the crucial information you need when specifying Petrarch and our other rainscreen panels and systems, including key performance characteristics, benefits and maintenance.

Call us today on +44 (0)1424 852641 for quotations, advise and information.



telephone: +353 (0)1 293 8951
email: info@elemental.ie

Architectural
Panel Solutions

www.architecturalpanelsolutions.com

Architectural Panel Solutions reserves the right to make substitutions and modifications to the specifications of any of its products without prior notice. It is the customer's responsibility to ensure that the company's products are correctly installed and that they are suitable for the customer's particular requirements and application.

The company undertakes business only upon its standard terms and conditions.

For project specific samples or technical assistance please contact our technical department on enquiries@architecturalpanelsolutions.com.

All information is correct as of the date of this document, created March 2019.