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acheson + glover

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GROUND-UP SUPERIORITY

premium granite flagstones **TerraPave®**



TerraPave®

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A history of innovation

AG started in 1960 supplying agricultural lime. Over 50 years later, it's one of the largest suppliers of hard landscaping, building products and structural precast in the UK and Ireland. Current Chief Executive Raymond Acheson literally grew up with the company – spending his school holidays making blocks and dispatching orders.

This, in time, gave him a complete understanding of the business that could only be gained from working from the ground up. His keen intellectual curiosity allowed him to start leading product development, which was (and still is) focused around a very simple principle: watch carefully where the market is going and develop products for it that are better than anyone else is making.

His work took him to trade fairs across the US and Europe, developing a vast knowledge of the market and forging strategic alliances with other companies which continue to this day.

Generations of skill and knowledge

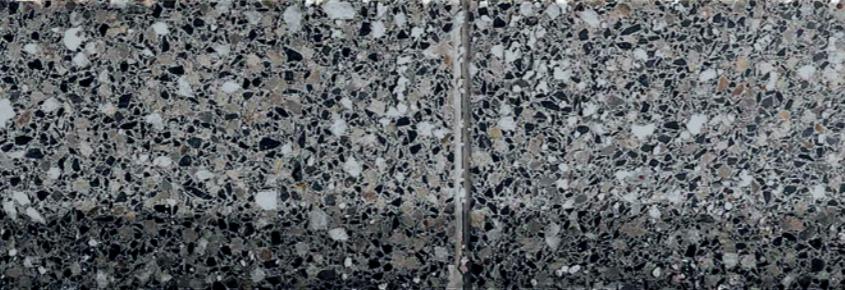
AG are now into the third generation of family management and the company has grown to over 400 employees across nine sites in the UK and Ireland. A large part of our success is down to our well-trained and highly-skilled workforce who, in many cases, are also into their third generation with the company.

From the workers at our quarries to our sales teams on the ground, everyone has taken on board Raymond Acheson's ethos of continually striving to find better ways of making great products and treating everyone the company deals with as people rather than merely suppliers and customers.

So what does this add up to? Something very special – an innovative company that works in genuine partnership with architects, designers and contractors, developing and supplying products that perform better and help deliver projects on vision.



AESTHETIC ENGINEERING



AG provide solutions that help architects and developers deliver a genuinely better built environment. A key part of the company's success has been to focus on a carefully chosen range of products – developing well-targeted, high-quality flagstones and paving that continue to challenge and lead industry standards. We've also led the way in providing architects with practical and aesthetically superior alternatives to environmentally unsound natural stone imports.

AG have always invested heavily in the latest production machinery and combined this investment with a vast knowledge of geology, chemistry and process technology to push the boundaries of what's possible with reconstituted stone. Our ongoing development of new and better ways of making hard landscaping products – such as the creation of products like TerraPave® – puts much of our range into the category of 'often imitated but never bettered'.

TerraPave®

360

10 colours | 2 finishes | 2 edges | 3 formats | 4 depths.

360 ways to get that design out of your head.

We all know the beauty and almost infinite range of natural granite. It's where architects and designers often start when specifying for landscaping projects. But how many times have you run into issues with cost, supply timescales, product variability and mechanical issues such as slip resistance?

From here, designers may look at reconstituted stone options and find that they're just not the same: the charm isn't always there and options are often limited. And that is exactly why we created TerraPave® – a product that perfectly captures the aesthetic of natural granite, but skips the downsides. With 360 standard colour, format and finish combinations, your design thinking changes from 'can I do this?' to 'how can I do this?'

COLOURS

Ten colours in two finishes. All TerraPave® colour blends have been carefully developed using shades from natural granite aggregates.

**10
GROUND**



Arno



Sorrento



Milano



Rimini



Verona



Florento



Como



Pollensa



Genoa



Tuscany



Sorrento



Arno



Verona



Rimini



Milano



Florento



Tuscany



Genoa

**10
TEXTURED**

FORMATS

3 FORMATS

400x400mm, 500x500mm
and 600x400mm.

TerraPave® is available in three sizes: 400x400mm, 500x500mm and 600x400mm. These have been chosen to allow landscaping designers maximum flexibility in designing laying patterns for a wide range of applications and in particular for pedestrianised areas in premium schemes. The high quality of ground finish TerraPave® also makes it suitable for interior use in atria and similar applications.

All colours and finishes are available in these three sizes, either as made-to-order or standard stock items. Our advanced production facilities allow us to offer made-to-order options with surprisingly short lead times which fall far within the normal timescales of project design, specification and construction.



400 x 400mm

600 x 400mm

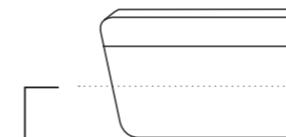
500 x 500mm

DEPTHES

FLEXIBLE DEPTHS

Four standard depths from 40mm to 80mm.

To allow for maximum design flexibility, TerraPave® can be specified in standard depths of 40mm, 50mm, 65mm and 80mm in all colours, finishes and formats. This gives designers a huge choice when specifying for differing mechanical requirements and trafficking applications. We can also manufacture custom depths for large projects, if required. AG's Technical Department are available to advise on suitable choices.



EDGES

2 EDGE TYPES

Square or chamfer on all sizes, all colours, all formats.

Flagstone edging plays a hugely important part in determining the overall tone of your landscaping design and how well it complements the overall scheme. Textured finish TerraPave® is available with a chamfer of between 3 and 5 mm. Ground finish TerraPave® can be specified as either a chamfer edge or with a square edge as a made-to-order option.



FEATURES + BENEFITS

Composition

The TerraPave® range's aggregate-rich top layer uses the finest granite and quartz aggregates from around Europe and in a higher concentration than typically used in similar products. This is an important part of developing the product's aesthetic qualities, but also means that it will stay beautiful even after years of prolonged use.

Sizing

Calibration before processing ensures strict compliance with BS EN 1339:2003 tolerances and a low level of dimensional variance, delivering ease and accuracy of placement during installation.

Manufactured to BS EN 1339:2003

Extensive materials research and development have resulted in a seven-stage production process unique to AG. Our temperature and humidity controlled vapour curing process significantly reduces any risk of efflorescence.

Finish

TerraPave® Ground is created using a unique diamond wet grinding process which gives a smooth, durable lasting finish. With TerraPave® Textured, the quality granite and quartz aggregates are exposed by our controlled shot blast process.

Use + Application

TerraPave® Ground and Textured flagstones are slip resistance tested and have a low slip/skid risk, making them ideal for both exterior and interior use. TerraPave® is also resistant to the effects of freeze/thaw and is not affected by de-icing salts.

Installation

TerraPave® is suitable for pedestrian, light and occasional heavy vehicle traffic when installed to BS EN 7533-4:2006 guidelines. AG's Technical Department will gladly advise on the correct bedding design to suit your project.

Environment

The production process used for TerraPave® uses 100% renewably-sourced energy and 90% harvested rainwater. 100% of the product can be recycled.

TerraPave® has a maximum carbon footprint of 15.2 Kg CO₂ / m² (80mm slabs). The product achieves BREEAM 'A' rating in accordance with the BRE Green Guide to Specification. (A+ rating when used with recycled sub-base).

SPECIFICATION REFERENCE

NBS PLUS: Q25 SLAB/BRICK/SETT/
COBBLE PAVINGS: 31, 315

BS EN: 1339:2003



Frost Resistant



Slip Resistant



Traffic



Heavy Duty

10.4-15.2

Carbon KG CO₂ / m²

ACCESSORIES

TerraKerb®

A premium alternative to natural stone kerbing.

With an exposed textured granite aggregate surface adding a premium appearance to any project, TerraKerb® makes an excellent alternative to natural stone kerbing. It's an excellent first choice or a cost-effective value engineering option.

TerraKerb® is available as either a bullnose or square edged kerb and perfectly complements our full range of paving and flags.

Gets The Look

TerraKerb® uses the finest granite aggregates to reproduce the look of traditional granite in a hard-wearing, long lasting kerb product.

Consistently Accurate

TerraKerb® is manufactured in a state-of-the-art dry press system that's computer controlled to ensure an exacting degree of dimensional accuracy.

BRE Green Guide 'A' Rated

TerraKerb® is produced in the UK from locally sourced materials, using a manufacturing process based on 100% harvested rainwater and 100% renewable energy.

FORMATS



TerraKerb® SquareEdge

TerraKerb® Bullnose



Frost Resistant



Slip Resistant



Traffic



Heavy Duty

2.63-16.84

Carbon KG CO₂ / m²

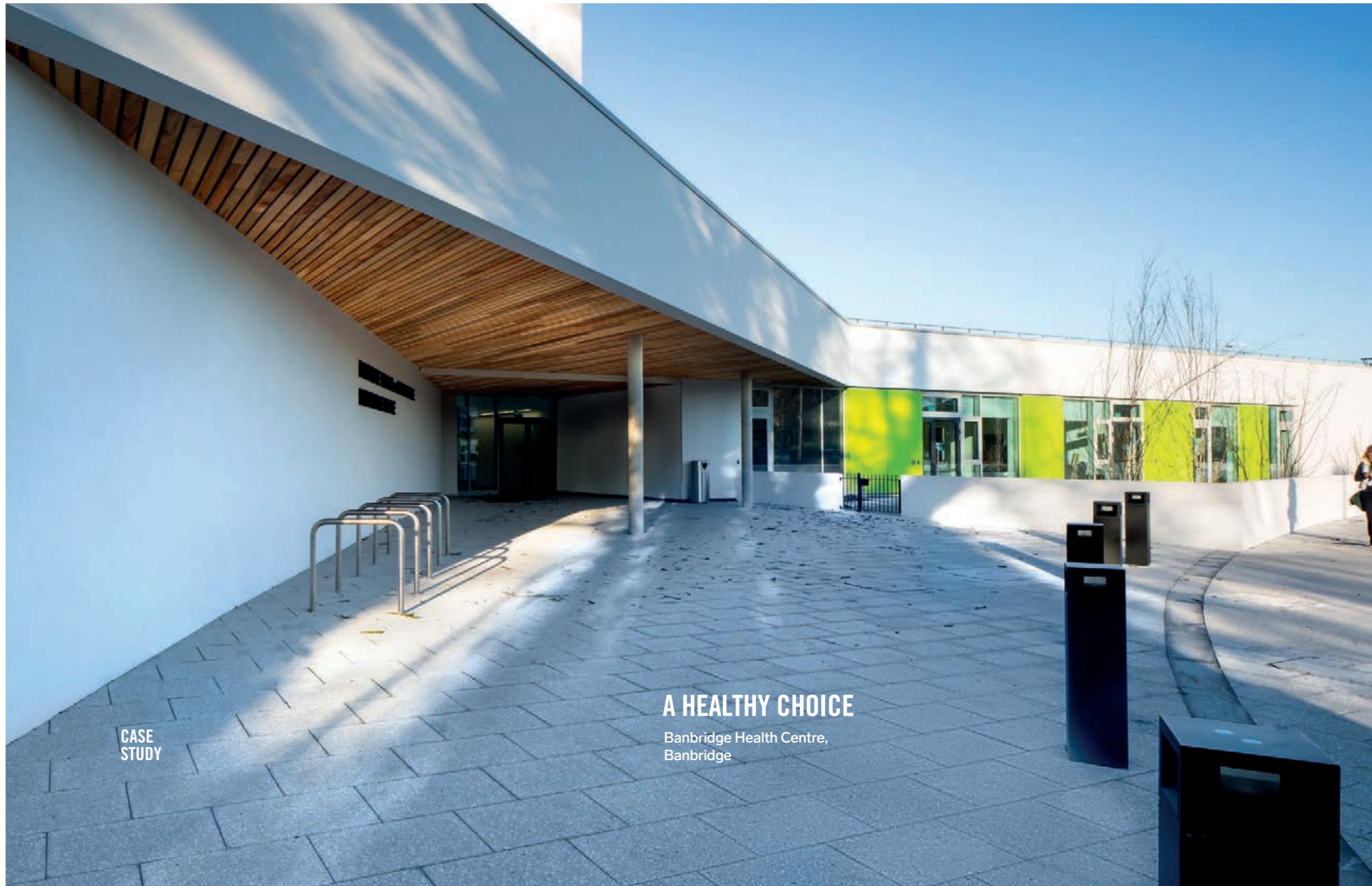
Project Name
Banbridge Health Centre,
Banbridge

Products Used
TerraPave® Rimini Textured,
Plaza Paving Slate and
Silver, TerraKerb®

Architect
Damien Day,
Kennedy Fitzgerald

Contractor
Felix O'Hare & Co. Ltd

CASE
STUDY



A HEALTHY CHOICE

Banbridge Health Centre,
Banbridge



Banbridge Health and Care Centre, which is adjacent to existing Trust Polyclinic and GP services, forms an integral part of a government-funded health village development on the site of the former Banbridge Hospital in County Down. Respected Belfast practice Kennedy FitzGerald were architects and lead consultants for what has been described as a new, innovative and efficient multi-faceted building model for the delivery of primary and community care that incorporates clinical accommodation for community outpatient treatment, activity and therapy spaces for adult daycare as well as functioning as an admin centre for Trust healthcare. Accommodation is planned around central courtyards and glazed circulation to maximise natural lighting and ventilation, while an atrium provides a heart to the building and establishes visual and physical connections between all four building levels.

The Challenge

Kennedy Fitzgerald's vision was to create a stand-out public realm scheme capable of showcasing the modernity of the state-of-the-art facilities and services on offer within a contemporary context. From a hard landscaping perspective, the architects required a range of cost-effective products that would be hardwearing, meet with strict BREEAM requirements and fit perfectly with the aesthetic intent that they had established for the project.

"It's really the balance of affordability with the quality of the product that was behind our choice in selecting it, and what's especially important to us is the BRE rating. Aesthetically it's a product that matched our vision for the project. Essentially, it's a quality product and an affordable one."

Damien Day,
Kennedy Fitzgerald Architects

The Solution

Kennedy Fitzgerald selected TerraPave® in Rimini Textured to help create their desired first impression and deliver a confident, contemporary look and feel for the multi-million pound development. Topping off the entire site, TerraPave® flags were installed on the roof to create a terraced area where patients can relax. TerraPave® Rimini Textured flags were chosen for their particular characteristics of added foot grip, durability and striking visual appeal. AG's Plaza paving in Silver and Slate was also used in the project as a visual complement to TerraPave®.

Damien Day of Kennedy Fitzgerald Architects commended TerraPave® for fulfilling multiple requirements during the development. "It's really the balance of affordability with the quality of the product that was behind our choice in selecting it, and what's especially important to us is the BRE rating. Aesthetically it's a product that matched our vision for the project – essentially, it's a quality product and an affordable one," he said.

Kennedy Fitzgerald was obliged to meet BREEAM excellence standards for the project, which was enabled by using AG's A-rated TerraPave® and Plaza products. Banbridge Health and Care Centre was a winner in the 2016 RIBA Northern Ireland Regional Awards.



SHIP SHAPE

Greystones Marina, Dublin



Project Name
Greystones Harbour Marina,
Beach Road, Greystones,
Co. Wicklow

Products Used
TerraPave® Rimini Ground

Main Contractor
John Sisk and Son

Architect
Ronan Mac Diarmada,
RMD Architects

Landscape Architect
Peter O'Brien Landscaping

The new Greystones Harbour has been transformed into a vibrant community focal point using AG innovation, offering not just a social amenity to residents but also a tourist attraction and docking port for boating enthusiasts.



The Challenge

Situated on the east coast of Ireland bordering the Irish Sea, the materials used had to withstand the harsh seaside elements and the demands of substantial pedestrian and vehicular traffic. With a proven track record in projects of this nature and relevant product innovation, AG was a natural partner to answer the brief designed by architect Ronan Mac Diarmada of RMD Architects and main contractor, John Sisk & Son. The challenge was to create a social space which would last and be visually appealing for now and future generations.

The Solution

AG's TerraPave® premium granite flagstone was chosen as the core element in this hard landscaping scheme for both its natural stone appearance, hard-wearing properties and its proven track record on similar, high-profile public realm and commercial projects.

Architects RMD sought to embrace the wider geographical canvas, which incorporated the Irish Sea, by choosing TerraPave®'s stunning Rimini and complementing it with Caliza® flags in Florento as well as Kin Stone® paving – all-in-all a perfect combination for a scheme where the architectural team were seeking to blend durability with a contemporary look and feel.

As part of their commitment to the project the contractor undertook a 25-year maintenance programme and, now complete, the harbour provides the perfect example of AG's high profile public realm and commercial experience in action.

The amenity has also achieved the challenging task of catering for rural and urban tastes by incorporating design and landscaping techniques that create an aesthetically pleasing shared space location.





RETAIL REGENERATION

Friar's Walk, Newport,
South Wales

CASE STUDY

Project Name
Friar's Walk, Newport,
South Wales

Products Used
TerraPave® Rimini Ground

Contractor
Bowmer and Kirkland

Landscape Architect
Hyland Edgar Driver



Friar's Walk in Newport, South Wales is a major shopping and retail centre incorporating a gamut of major stores and leisure facilities – including a host of restaurants, a multiplex, car park and even a new bus station. Adjacent to the city's thriving arts quarter, university area and iconic footbridge, it resides at the epicentre of a regeneration programme which has seen major swathes of the city dramatically revamped over the past 20 years.

The Challenge

This new signature retail showpiece, nestling within a vast site of 36,230 square metres, brought with it the anticipation of an estimated footfall of some 10 to 12 million people each year.

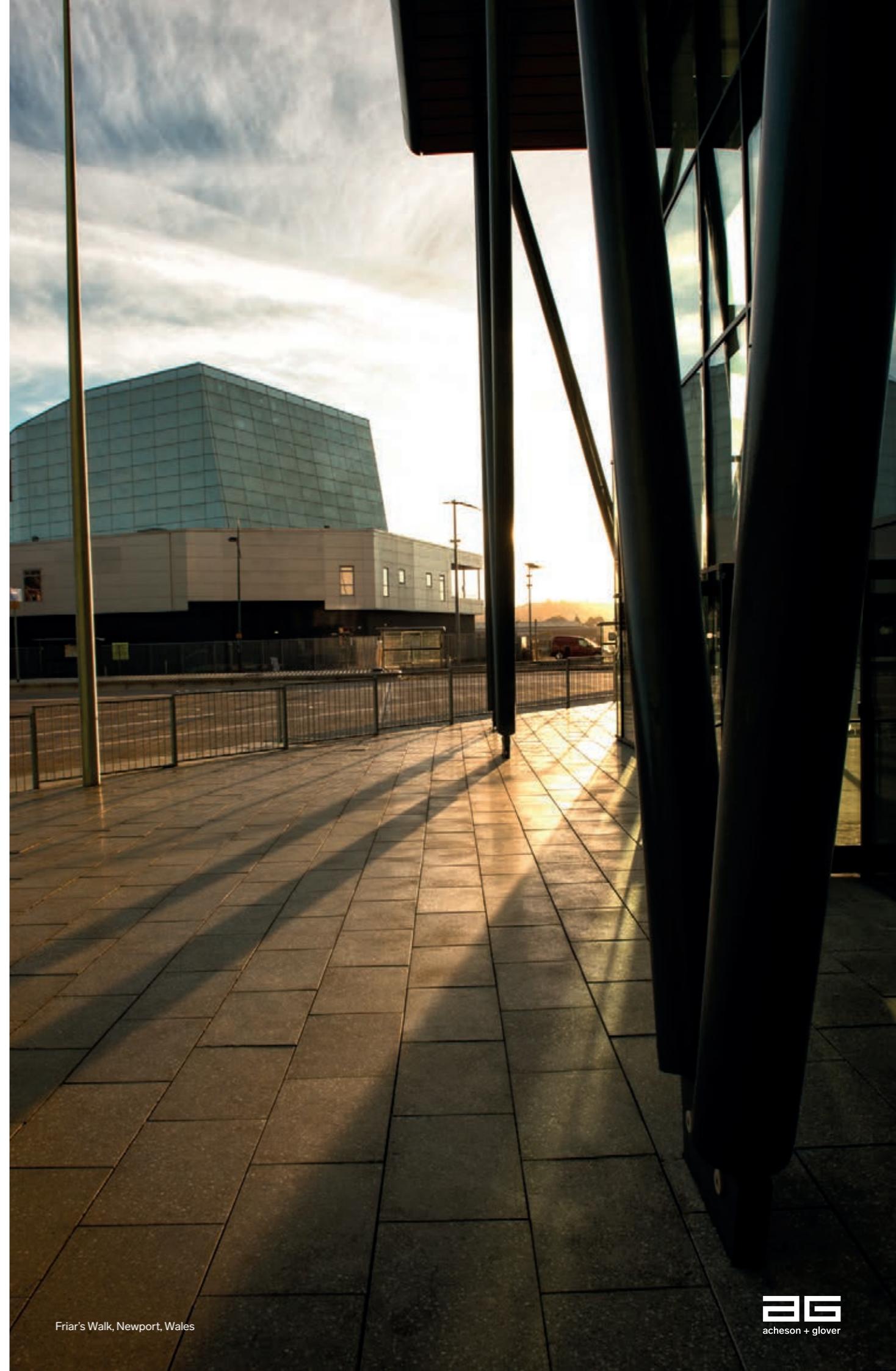
With such heavy pedestrian traffic projected, its ground cover had to provide maximum durability and slip resistance while also creating an attractive visual impact befitting a high-profile development integral to the city's rebirth.

The Solution

AG's TerraPave® products have succeeded in creating the most beautiful solution for the heavily pedestrianised centre of Friar's Walk, with the visual effect being a natural thoroughfare from one end of the centre to the neighbouring retail hub of Commercial Street.

Creating an impression of an inviting winding path throughout the vast retail offering and the surrounding revamped environs, the use of TerraPave® flags provided a premium value engineering alternative to a traditional stone solution.

The Rimini Ground TerraPave® chosen at Friar's Walk has created seamless consistency, underpinned by its eye-catching and striking texture.



CASE STUDY

Project Name
Newry Leisure Centre

Products Used
TerraPave® Rimini Textured
and Florento Textured

Contractor
Felix O'Hare & Co Ltd

Architect
Kennedy Fitzgerald

Landscape Architect
Soltys Brewster





Newry & Mourne District Council appointed Felix O'Hare & Co Ltd as main contractor for the construction of this new build £8.5m leisure centre, comprising a swimming pool, changing facilities, administration areas, plant room and associated external works in the heart of Newry City.

The project included the demolition of the existing swimming pool building and construction of the new building with a landscaped public plaza and car park for approximately 150 cars.

The project has been designed to meet exemplary sustainability and low carbon principles and will embody the goals set out in the Newry 2020 Low Carbon City targets. The facility will also achieve 'Disability Sports Northern Ireland's Inclusive Sports Facility' accreditation.

The Challenge

Newry & Mourne District Council specified that the new facility must provide accessibility and functionality with a modern, high spec that would encapsulate the overall ambitious future vision for the town, enhancing yet complementing the existing town centre for residents and visitors.

From a hard landscaping perspective the key challenges were to create a look in keeping with the council's bold vision and a paving solution capable of offering suitable levels of water drainage as part of a Sustainable Urban Design System (SUDS).

The Solution

TerraPave® flags were selected as an essential element of the design agreed by architects Kennedy Fitzgerald, together with landscape architects, Soltys Brewster, who brought the external scheme to life.

The aim was to provide a neutral background for the new building and artistic planting element and to set them off attractively with a neutral palette of a greys.

The TerraPave® flags, manufactured from carefully selected granite materials from quarries throughout Europe and finished in ground and textured finishes, offered three greys to choose from.

Chosen as a fine quality concrete alternative to natural stone, which helps keep costs down on a publicly funded scheme such as this, they were also selected for conforming to current BREEAM sustainability criteria which AG build in as standard.

Jackie Harte of Soltys Brewster said: "TerraPave® is a proven and truly tested product that has been used in many similar situations. Because it is an ongoing product, if in future you need to do repairs it will be easier to carry out and to maintain the design using the same material."

"TerraPave® is much better than the standard flag and offers a more attractive surface. Furthermore the flags are more easily maintained and retain their colour very well," she added.

For other elements of the build, contractor, Felix O'Hare chose AG's Xflo® Plaza permeable paving block system, specifically developed by AG to provide specifiers with an extensive range of high quality aesthetically pleasing block paving finishes.



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