

TAYLOR MAXWELL

# Stonepanel

Stone Cladding

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# STONEPANEL™ Stone Cladding



Caudwell International Children's Centre

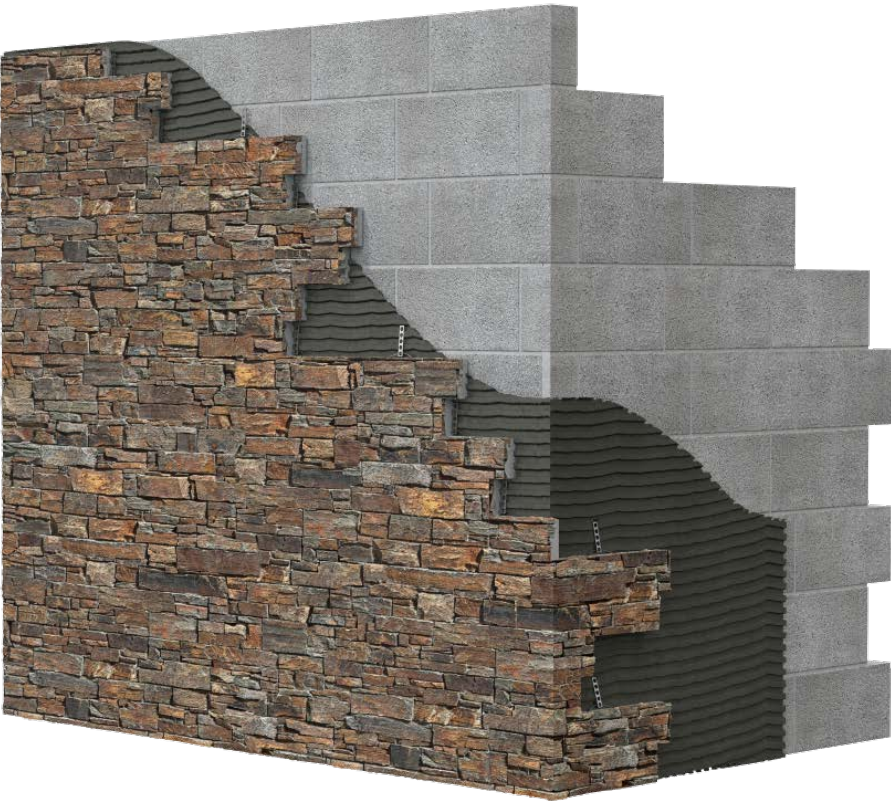
## Introducing STONEPANEL™ stone cladding systems

**STONEPANEL™ is an innovative cladding system for walls and facades, suitable for both internal and external application. Individual pieces of quartzite, gneiss, limestone, sandstone and slate are joined to a cement base that is reinforced with a fibreglass mesh. Each piece is Z-shaped to hide the joints from view and does not require pointing. Sizes available include 610 (560) x 1.25mm and 600 (550) x 200mm. The product should only be installed by installers who have been trained by the certificate holder.**

STONEPANEL™ cladding is the only natural stone pre-assembled product on the market that is backed by BBA certification and offers installation advantages over traditionally built natural stone. We are the sole supplier in the UK and hold stock in several locations.

STONEPANEL™ Sky incorporates a hook in the back to allow for a mechanical fix, in addition to the adhesive, assuring additional strength and durability.

STONEPANEL™ can be easily cut on site using an electric grinder or site cutting bench and the pieces are laid in a 'stretcher bond' so as to deter from vertical joints being directly on top of each other. It is suggested to fix back the stone cladding to a masonry substrate with Ardex X7G+ adhesive up to a height of 2 meters, taking into consideration the guidelines in the BBA. Thereafter, it is recommended to utilise the mechanical fix of STONEPANEL™ Sky hooks in conjunction with the adhesive.





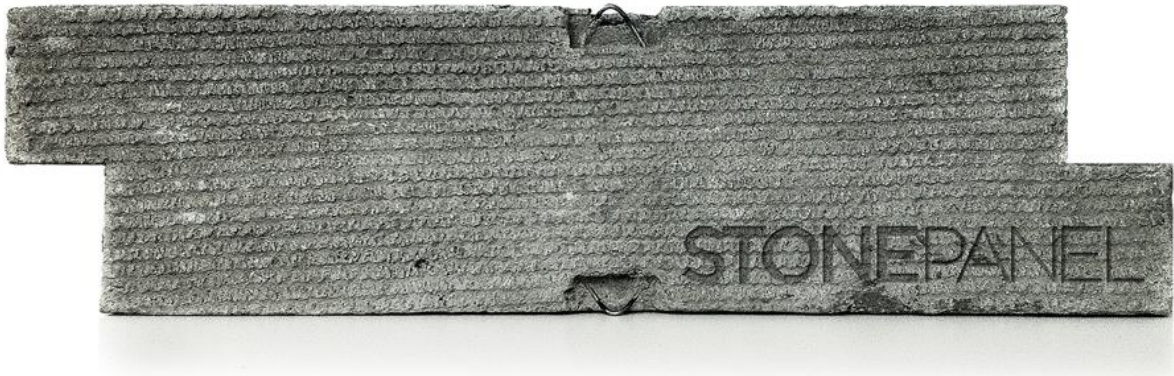
# Hook & Adhesive Fixed Stone Cladding

## Installation

To avoid visible joints, each panel is z-shaped making it very simple to install without the requirement of specialist, skilled labour. STONEPANEL™ can be easily cut on site using an electric grinder or site cutting bench.

The pieces are then laid in ‘stretcher bond’ to deter from vertical joints being directly on top of each other.

It is recommended to fix the stone cladding back to a masonry substrate with Ardex X 7G Plus adhesive up to a height of two metres, taking into consideration the guidelines in the **BBA** certification. Thereafter, it is recommended to utilise the mechanical fixability of STONEPANEL™ Sky hooks in conjunction with the adhesive.



## STONEPANEL™ Sky

STONEPANEL™ Sky allows you to install to greater heights. It uses a patented built-in mechanical anchoring system, allowing cladding of higher areas, otherwise not possible with adhesive fix alone.

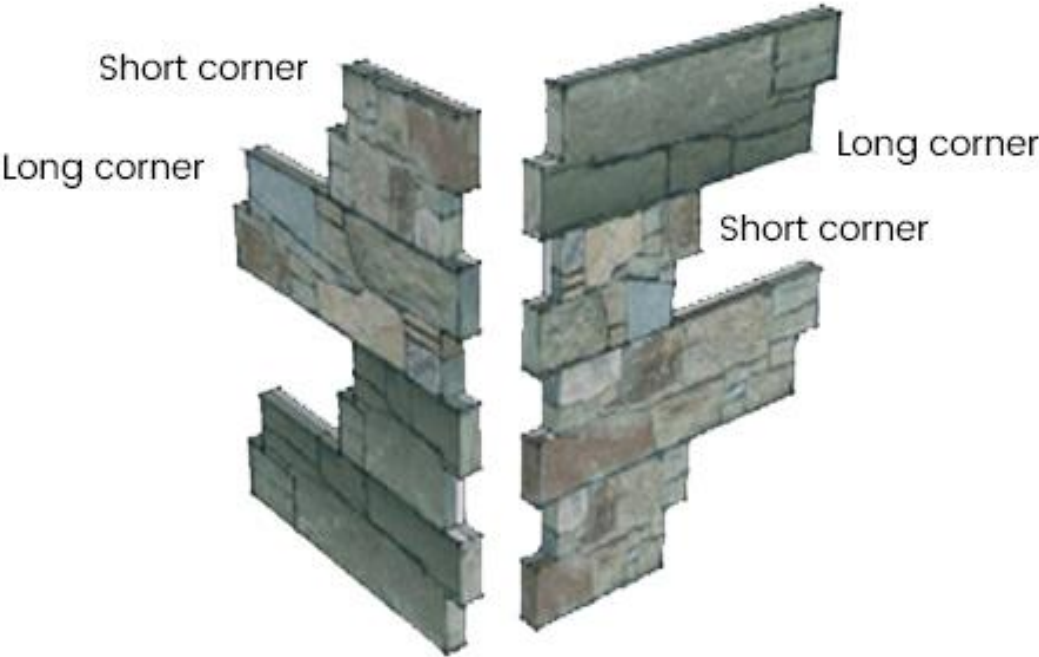
A suitable STONEPANEL™ clip can be supplied. This is clipped onto the STONEPANEL™ Sky piece before application and fixed with a suitable plug and stainless-steel screw.

The next piece of STONEPANEL™ Sky is installed on to the course above, thus hiding the fixing. For more information regarding installation, please contact us.

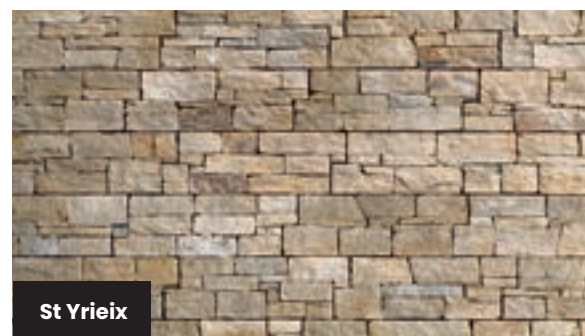
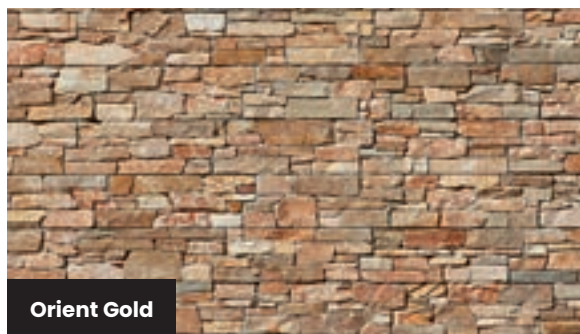
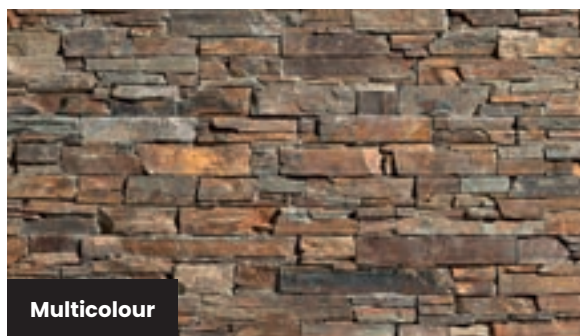
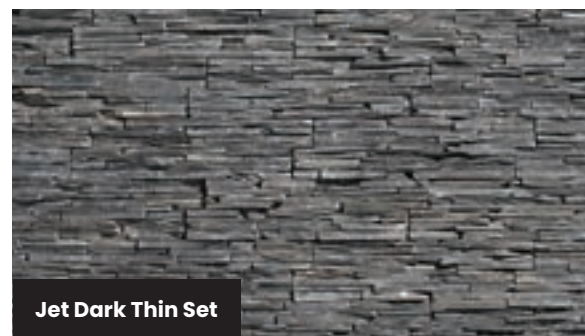
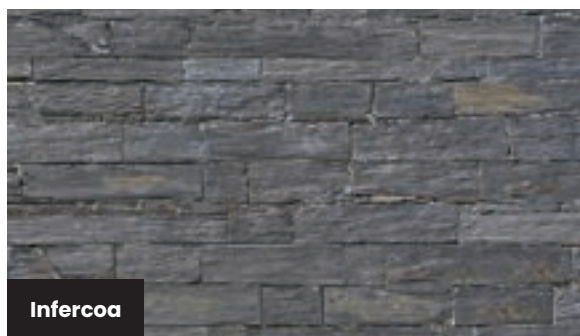
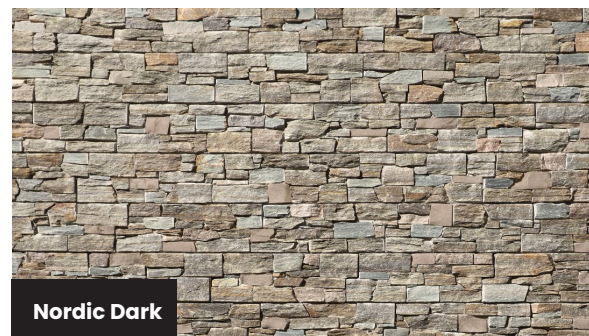
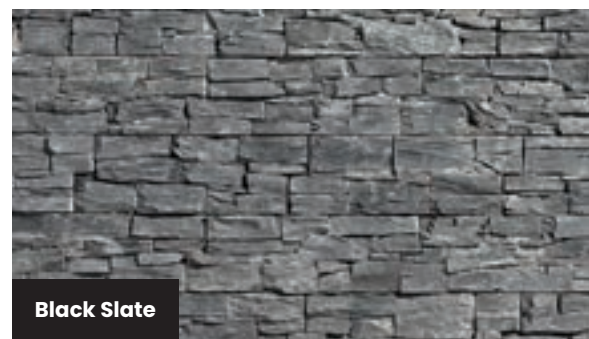
## Short and Long Corners

These are individual full and half pieces of Stonepanel that are faced on end to allow them to interlock into each other. A long and short corner is required on each course for external returns.

For window reveals, it is recommended to use short corners throughout to the reveal face, then alternating long and short corners on the front face of the facade.







— Tested



BBA certified when applied to solid walls of masonry or concrete, with an impact resistance of panels according to ISO 7892.





# Caudwell International Children's Centre

## Stonepanel Stone Cladding



The Caudwell International Children's Centre (CICC) in Keele is the UK's first independent, purpose-built facility dedicated to autism diagnosis, therapy and research.

Built using Taylor Maxwell's STONEPANEL™ product, among other key materials, the 60,000 square-foot building opened its doors in November 2018, offering an unprecedented breadth of services and support to children with autism and their families.

The CICC was meticulously designed by host charity, **Caudwell Children**, and architects **C4 Projects**, in collaboration with a wide range of stakeholders. The aim was to provide a supportive environment for disabled people, with a core focus on the needs of children with autism and neurodevelopment conditions.

Internally, the building had to reflect the way children with autism like to navigate and move, and to provide a calming sensory experience. The exterior needed to be warm and welcoming, with natural-looking building materials that would provide the right level of acoustics and light. Above all, the charity was determined that the centre should not resemble an institution in any way.

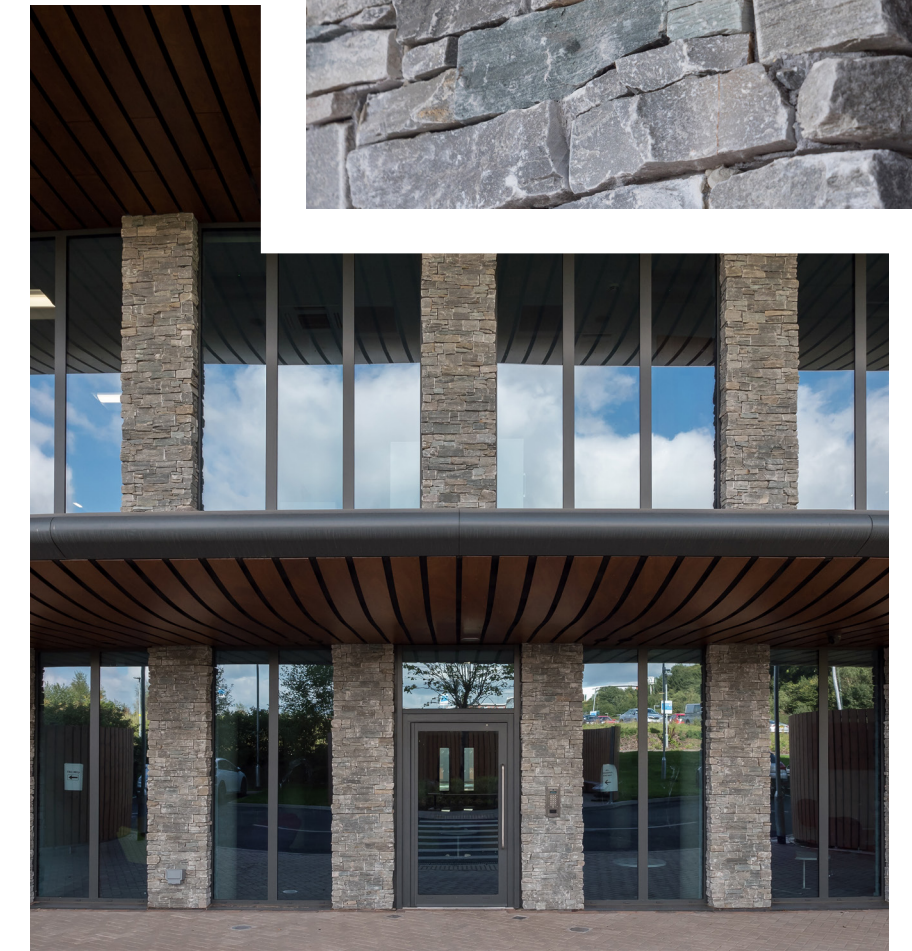
C4 Projects responded with a graceful, curvilinear design that is both highly aesthetic and functional. Inside, 360-degree loop corridors discourage children from running and, by doing away with harsh, right-angled corners, reduce the anxiety of surprise encounters. Internal decoration also avoids complex patterns and detailing, while sensory gardens enable the children to interact with nature.

Externally, C4 Projects opted for natural stone, timber and glass, and selected our STONEPANEL™ (Nordic without White Stones), hook and adhesive fixed stone cladding for the building's three-foot pier facades. This composite, high-quality product has a rustic, hand-built look and feel, complementing the centre's

timber features to provide the desired warmth and geniality. Its bulk also has the additional benefit of blocking sound – perfect for CICC's acoustic specifications.

Our STONEPANEL™ product not only helped C4 Projects to meet the client's aesthetic and functional brief, it also provided a range of efficiency savings. Whereas traditional stone products would have required a great deal of onsite cutting, STONEPANEL™ could be pre-cut and the stone piers pre-fabricated offsite. This meant all cutting and sizing could be carried out in a controlled environment, minimising risk and saving time at the point of installation.

STONEPANEL™ is also well suited to CICC's challenging design, aligning smoothly to the building's curves and junctions. In addition, its acoustic qualities would reduce the amount of sound coming into the centre, promoting calm and minimising disturbance for the children inside. Overall, the choice of materials helped to create an innovative and beautiful building – one that is perfectly attuned to the client's vision and the needs of its end-users.





# Grantley Hall

## Stonepanel Stone Cladding



Located near Ripon in North Yorkshire, Grantley Hall’s past is colourful and varied with a myriad of tales to tell from Members of Parliament, artists, entertainers and royalty who have all walked through its doors. Originally built as a private home in the 17th Century, Grantley Hall has seen use as a shooting lodge, a convalescent home during the Second World War and an adult education college.

Today, Grantley Hall is privately owned by Valeria Sykes, who bought the property with a vision of creating a legacy for her family and the historical building. In partnership with **Bowman Riley Architects** and Main Contractor **HACS Construction**, the property, complete with a lake and English heritage Japanese garden, experienced a four-year restoration and modernisation plan.



The 47-bedroom hotel now features a state-of-the-art luxury spa, exclusive training facilities and three restaurants, including the signature restaurant named after its Michelin-starred head chef, Shaun Rankin. A new subterranean Garden Pavilion, clad in STONEPANEL™ stone cladding, has also been integrated within the listed Japanese garden. Originally built in 1910, the garden has been restored to become one of the most important of its type in the country.

Grantley Hall is a shining example of how historic buildings can be successfully transformed, all while maintaining and celebrating the original features that make them special. Grantley Hall won the Heritage Award at the 2020 RICS Social Impact Awards, Yorkshire and Humber, and has reached the national finals.

In partnership with Taylor Maxwell, Bowman Riley Architects specified STONEPANEL™ stone cladding in the colour ‘Nordic’, to provide a contemporary finish to the Garden Pavilion, whilst meeting the requirements set out during the planning stage. Expertly installed by HACS Construction, the range of curved stone units sit flush against the facades distinctive shape, creating a uniform exterior across the Pavilion.

With Bowman Riley Architects, HACS Construction and all material suppliers based in Yorkshire, Grantley Hall is a tribute to the site’s long history and a celebration of local business. The restored building, which combines rich heritage and new contemporary designs, has come together to give guests a five-star luxury getaway surrounded by original 17th century features that make the setting so distinctive.





**TAYLOR MAXWELL**



For more information, samples or to speak to one of our product advisors, please call **0203 794 9377** or email [enquiries@taylor.maxwell.co.uk](mailto:enquiries@taylor.maxwell.co.uk)