

Crest Bricks and Roofing Tiles Supplied to Britain's Best New Building 2019 Winner - **Goldsmith Street wins RIBA Stirling Prize**



Photography: Tim Crocker &
Mikhail Riches Architects



At Crest we believe our products transform buildings into something remarkable.

The amazing project at Goldsmith Street, Norwich showcases how inspirational architecture and good quality building products can complement each other into creating award winning developments.



Goldsmith Street,
Norwich: Award
winning development
showcasing Crest's
H14 interlocking
black gloss clay tile &
Crest's Belgrave Buff
& Grosvenor Grey
Multi bricks.

Award-Winning Roofing System, with Beautifully Crafted Mansards



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The Social Housing Project of 105 high energy-efficient homes in Goldsmith Street Norwich, designed by Mikhail Riches with Cathy Hawley to Passivhaus standards for Norwich City Council won the Royal Institute of British Architects (RIBA) Stirling Prize Award 2019. The UK's highest architectural accolade for the best new building.

The city of Norwich held an international RIBA Competition in 2008 to select architects and the right scheme for the site, which Riches Hawley Mikhail won. The architects led by David Mikhail & Annalie Riches have a talented team that live & breathe each project. David Mikhail from Mikhail Riches says "We're known for unlocking the potential

of any site with creativity & strong focus towards a low-energy future, we believe we have created something very special for the new community of Goldsmith Street for example; the existing green links are to be reinforced with a landscape scheme which extends beyond the boundaries.

A shared 'alley' encouraging small children's play and communal gathering is accessible from back gardens – a secure place which only key holders (residents) can access". Mikhail Riches deliver outstanding design and have fun doing it which has been complemented by the commitment from the team at Crest.

On 18 July 2019, six projects were short-listed for this coveted award. The projects

were judged against a range of criteria including design vision, innovation, originality, accessibility and sustainability, the capacity to stimulate, engage and delight occupants and visitors, how fit the building is for its purpose and the level of client satisfaction.

The architects focused on a number of local touches that were rooted in Norwich's past when designing the Goldsmith Street development, such as the glossy black pantiles used on the roofs - a nod to the city's Dutch trading routes from The Netherlands and buff/grey clay facing bricks, similar to the Victorian terraces in the nearby Golden Triangle district typical features of East Anglian architecture. The unusual pitch of the mansard roofs,

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however, reveals the architects' contemporary design of the terraced typology; their 15-degree slant allows for winter sun to hit the homes' south-facing façades uninterrupted to provide passive heating. The mansard style makes maximum use of the interior space in the roof area and creates a simple and modern feel to the homes. The roof profile is one of a number of subtle design details that have enabled the scheme to achieve Passivhaus status, the certification for ultra-low-energy-buildings, the largest Passivhaus scheme in the UK.

Managing director Arnold van Huet from Crest Building Products provided expert advice and guidance backed up by his team at Crest on this state-of-the-art project. Invaluable experience and understanding of bricks

and roofing tiles required for a project of this magnitude were extremely useful when working alongside the architects.

The Crest Nelskamp H14 interlocking clay pantile finished in black gloss was the preferred choice for the project. With a covering capacity of only 14 tiles per square metre, it was installed very economically, however, the roof design presented some challenges, several tailored tiles were designed in order to deal with the intricacies of the mansard roof shape.

The Crest team and the architects organised a visit to Nelskamp in Germany, Crest's European manufacturing business partners.

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H-14 Technical data

LENGTH	434mm
WIDTH	267mm
GAUGE	323 mm ± 1.0 mm
COVER WIDTH (mm)	215mm ± 2.0 mm
MINIMUM ROOF PITCH*	10°
NO. OF TILES PER m ²	13.6-14.4 variable
WEIGHT PER TILE	3.6 kg
WEIGTH PER m ² (min)	48.96 kg
BATTENS PER m ² (min)	3.0
BATTEN SIZE (mm)	50 x 25
FIXINGS - All tiles must be fixed	

H14 perfect for lower roof pitches 10-22°

- Counter batten the roof and ensure adequate ventilation.
- Use high quality low pitch roof underlay (Klober Permo Extreme or equivalent) installed to manufacturers instructions
- Increase the overlap by 100mm
- Batten tape over the underlay coinciding with rafters and any other fixing points.
- The gauge of the tiles should not be 'stretched'
- All tiles are to be mechanically fixed with purpose made tile clips.
- Always ensure good ventilation.
- All areas around the roof perimeter and abutments must be properly finished as well as any areas around any 'velux type' windows (These are the areas where potential problems are likely to occur on a low roof pitch.)



➤ Crest Nelskamp specifically designed 70° angle H14 black clay roofing tile.



➤ The unique roofing system flows without interruption continuously from eave to ridge.



The purpose of the trip was to showcase the leading German roofing manufacturer with modern production facilities and special preparation treatments and to oversee the final stages of the bespoke engineered roof tile.

Bespoke engineered angled tiles were finally created (some at 70°) with millimetre precision enabling the roofing contractors to construct the pitched roofs to the quality the architects aspired to. The tiles would interlock with the H14 clay roof tile and offered a unique roofing system that flows without interruption continuously from eave to ridge with no lead work on any part of the roof. The architects were delighted a solution had been overcome and didn't compromise the outstanding appearance of the mansard roof.

The 2019 RIBA Stirling Prize judges, chaired by Julia Barfield, said: "Goldsmith Street is a modest masterpiece. It is high-quality architecture in its purest most environmentally and socially conscious form. This is proper social housing, over ten years in the making, delivered by an ambitious and thoughtful council. These desirable, spacious, low-energy properties should be the norm for all council housing."

"Over a quarter of the site is communal space – evidence of the generosity of the scheme. A secure alleyway connects neighbours at the bottom of their garden fences and a lushly planted communal area runs through the estate, providing an inviting place for residents to gather and children to play, fostering strong community engagement and social cohesion."

Goldsmith Street is a ground-breaking project and an outstanding contribution to British architecture."

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Crest's Belgravia Buff Multi and Grosvenor Grey Multi bricks.



A mix of two brick types created a bespoke and unique blend.



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NELSKAMP
ROOFING TILES