

CALOSTAT Pad from Evonik receives single-case approval for the TWIST roof of CUBE—an iconic building made of carbon reinforced concrete

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Conceived as a symbol of modern, lean, flexible, and sustainable construction with carbon reinforced concrete, the C³ Project funded by Germany's Federal Ministry of Education and Research successfully introduces this innovative construction method onto the market. The stability and load-bearing capacity of the non-rusting reinforcing material is far greater than that of traditional steel reinforcement, despite being significantly lighter. CUBE—the world's first building to be made from resource-saving carbon reinforced concrete—is currently under construction in Dresden. Its creative, unique design underscores what makes carbon reinforced concrete such an unusual construction material: despite being lightweight, it still plays a structural role. It also allows architects to create designs that would once have been very difficult to implement. That design freedom is reflected in what are referred to as the TWIST elements: two asymmetrically positioned shells that simultaneously serve as both an outer wall and as the roof.

CALOSTAT® Pad is a slim, recyclable, purely mineral-based, non-combustible, and easy-to-process insulating material—properties that make the product well suited for use in the CUBE project. The flexibility of CALOSTAT® Pad is a perfect fit for the TWIST element, allowing builders to integrate insulation into the structure with no waste or cutting loss. The area surrounding the ceiling lighting strip could showcase the advantages of this high-performance insulation particularly well.

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Photo: Iurii Vakaliuk, TU Dresden, IMB
Rendering of the carbon reinforced concrete building CUBE
showing the TWIST roof.



Photo: Evonik
The perfect match for the TWIST element, CALOSTAT® Pad comes
in panels 10 - 50 mm thick.

Company information

Evonik is one of the world leaders in specialty chemicals. The company is active in more than 100 countries around the world and generated sales of €12.2 billion and an operating profit (adjusted EBITDA) of €1.91 billion in 2020. Evonik goes far beyond chemistry to create innovative, profitable and sustainable solutions for customers. More than 33,000 employees work together for a common purpose: We want to improve life today and tomorrow.

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