

A sustainable factory uses sustainable concrete reinforcement



Frasers Property Industrial (Thailand) Company Limited, a leading industrial property developer in Thailand, developed a new-generation, eco-friendly factory. This facility, which received a “Gold” rating according to Thailand’s Rating of Energy and Environmental Sustainability (TREES), showcases construction innovation and sustainable materials. Bekaert played a pivotal role in its design and sustainable construction.

The challenge

The original design heavily relied on rebar, but rising costs pushed the general contractor to seek a cost-effective alternative. Additionally, there was a need to reduce the number of joints by implementing a jointless floor design.

The solution

Bekaert supported the general contractor by proposing a jointless floor using Dramix® 3D 80/60BG steel fibers at a dosage of 30kg/m³. This innovative solution eliminated the need for joints, reduced slab thickness, and proved to be more cost-effective than the rebar design, all while meeting the client’s requirements. Additionally, Dramix® steel fibers are EPD-certified, aligning with TREES green building standards.

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Project Specifications

Project type: Manufacturing
Application type: Jointless floor on ground

Partners

Owner: Frasers Property Industrial Ltd.
General contractor: Chan MR Group Co., Ltd.
Ready mix: The Siam Cement Co., Ltd.
Flooring contractor: RNE Co., Ltd.

