

Mayfield Road Student Accommodation

Lindapter Hollo-Bolts were used to quickly connect 257 modular rooms together.



Project Background

Location: Edinburgh, UK
Product: Hollo-Bolt by Lindapter
Client: Prestige Student Living
Project Team: Clark Contracts, DMD Modular, Frontier Modular Services and Meinhardt
Quantity: 7,000



Prestige Student Living identified a shortage of Purpose Built Student Accommodation (PBSA) in Edinburgh and decided to submit plans for two five-story student accommodation buildings. The buildings would serve the Kings Building Campus, owned by Edinburgh University, and provide a comfortable living experience with high quality amenities for students arriving for the start of the 2022 academic year.

Client Requirement

It was crucial that the project was completed within the specified timeframe and so a modular construction technique was the preferred option. The design and specification of the buildings also had to incorporate a variety of environmentally friendly materials, aligning with the project's strong Environmental, Social, and Governance (ESG) credentials. There was a requirement for a quick, convenient and recyclable connection from one side of the modular units to ensure increased speed of installation while maintaining environmental and sustainability standards.



Modular units carefully stacked on top of each other

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Design Solution

Using the most advanced modular 3D technology, 257 modular units were to be manufactured offsite in Poland and transported to the construction site in Edinburgh.

Hollo-Bolt, the original expansion bolt from Lindapter was specified for connecting the modules together onsite, using pre-drilled steel plates and angle brackets, due to its versatility including speed of installation from one side and its design for de-construction credentials.

Installation

Installation was quick and easy, each modular unit was lifted by crane and carefully stacked on top of each other and connected using Hollo-Bolts inserted through the steel plates and angle brackets into pre-drilled holes of the modular units. Each Hollo-Bolt was installed using a torque wrench to provide the necessary clamping force.

Countersunk Head Hollo-Bolts, size 5/8" were used on the bracket interface between the steel modular units and concrete lift core (A), while Hexagonal Head Hollo-Bolts, size 3/4" were used in conjunction with pre-drilled plates to fix modules in the vertical plane (B).

Additionally, Countersunk Head Hollo-Bolts, were selected to secure horizontal floor plates to attach the modules horizontally with minimal bolt head protrusion (C).



Results

Hollo-Bolts along with the modular construction technique facilitated the fast construction of the first five-story student accommodation building allowing the project to be completed on time. The widespread adoption of Hollo-Bolt for connecting modular buildings demonstrates how Lindapter's expansion bolt streamlines construction by eliminating the necessity for labor-intensive and costly processes in the field like welding, cutting, or through-bolting.

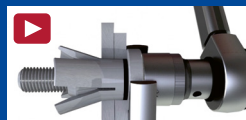


Key Benefits

- ✓ Fast installation from one side
- ✓ Safer installation as no hot works required
- ✓ No specialist equipment required to install
- ✓ Unique high clamping force design



Watch the **Hollo-Bolt (HEX)** installation video



Watch the **Hollo-Bolt (CSK)** installation video

