

# 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-storey 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 M16 were used on the bracket interface between the steel modular units and concrete lift core (A), while Hexagonal Head Hollo-Bolts, size M20 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-storey 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 labour-intensive and costly on-site processes like welding, cutting, or through-bolting.

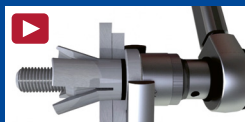


## Key Benefits

- ✓ 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

