

SDG

STRONGER
TOGETHER

CORNAMONA COURT DUBLIN

Main Contractor:

Cunningham Contracts

Date:

November 2020

Engineer:

Roughan & O'Donovan

Architect:

Paul Keogh Architects

PROJECT SUMMARY

SDG were proud to be involved with Cornamona Court, one of Dublin's largest social housing projects since the 2008 property crash. Designed for Dublin City Council by Paul Keogh Architects, the complex features 16 two-bedroom houses and 12 three-bedroom duplexes for families on the housing waiting list, as well as 29 one-bedroom and four two-bedroom senior citizens apartments. All homes are to feature dual aspect windows, and a resident's common room was also provided within the scheme.

THE ISSUE/CHALLENGE

As with all industrial settings, vibration isolation is a key issue. As the apartment building featured some prominent concrete balconies, the designers worked to eliminate the potential for cold bridging. If left as a single monolithic slab, the external balcony would work as a cold bridge, drawing internal warmth through the concrete slab. If left untreated, this temperature differential would allow for not just heat-loss but would also increase the risk of condensation forming on the cold inside slab around the balcony door.

WHAT WE PROVIDED/SOLUTION

Cunningham Contracts asked SDG to assist in the design and supply of thermally isolative concrete connections to ensure the

cantilevered balcony slab would be insulated from the main slab to prevent thermal bridging.

Working closely with our partner Max Frank, we had calculations produced for engineers' approval. Once approved, layout drawings were produced, and the Egccobox Connectors were sent for production in Max Franks German factory. Egccobox thermal breaks are BBA approved and come with free design and on-site technical support.

RESULTS

Working closely with the Max Frank UK team, we arranged for swift manufacturing, and on-time delivery to site. The bespoke Egccobox units were installed as per manufacturers guidelines, and layout drawings. Since installation, the units are working as per design to isolate the balcony from the main slab, allowing for a complete reduction in thermal bridging thanks to the thick mineral wool insulation block. Egccobox also works to carry the weight of the cantilever slab, offering the ultimate level of structural safety. Should you have a requirement for the Egccobox system, reach out to our Technical Team for assistance.

