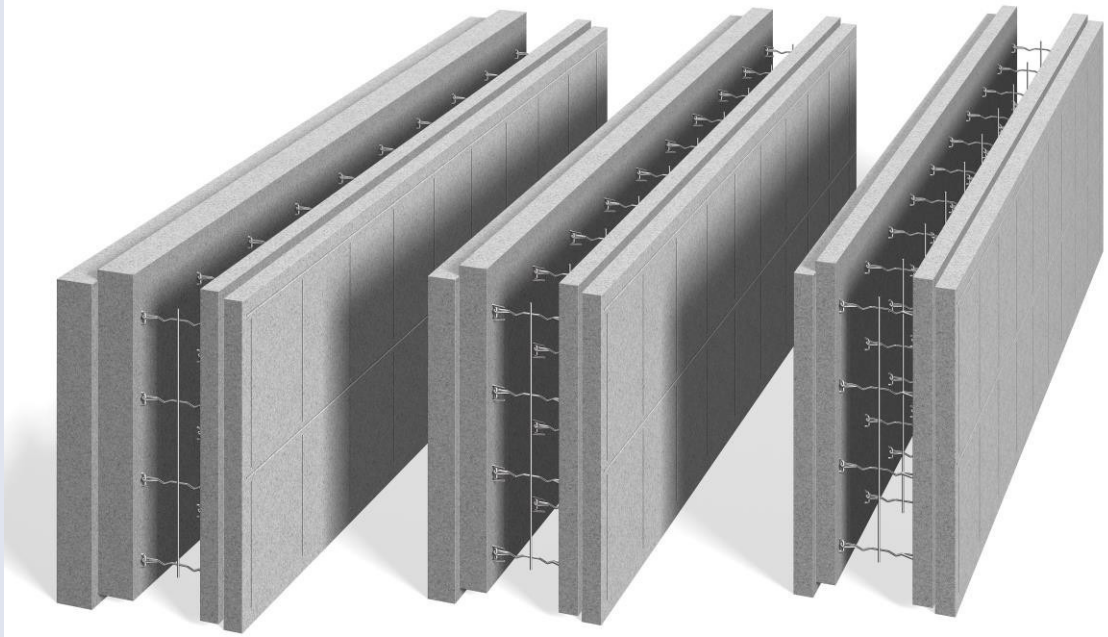
UNi BLOCK

Thermal Insulated Modular System

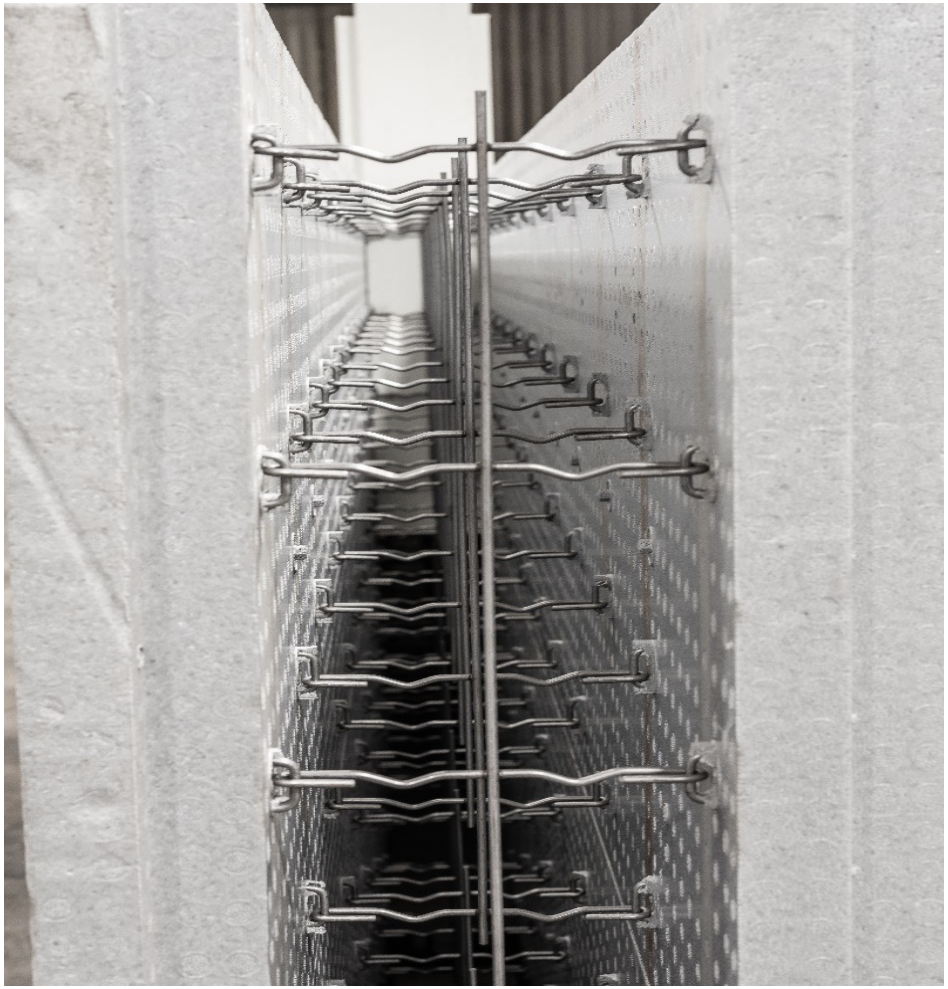
A modern method of construction

- Insulating Concrete Formwork (ICF)
- Suitable for residential, commercial, industrial & institutional construction
- 600mm high x 2400mm long
- Inner leaf of 75mm & outer leaf of 75mm, 110mm or 150mm Neopor® Polystyrene
- Embedded wire mesh with a patented folding mechanism



Technical specification

- Fire rating EN 1365-1:2000 and classified as REI 130
- Air tightness typical build 0.73m3/hr/m2
- Sound insulation 50 dB
- Flood resistance neither concrete nor expanded polystyrene rot or suffer from water damage



Panel thickness	75mm	110mm	150mm
Weight per block	15 kg	16 kg	18Kg
U value	0.22 w/m²k	0.19 w/m²	0.16 w/m²
Part number	UN7575	UN75110	UN75150

In partnership with global construction expertise & scale

Polycrete®

UK & Ireland distributor for Polycrete –
25 year old Canadian manufacturer of
Insulating Concrete Formwork

SAINT-GOBAIN

GLAVA ISOLASJON

Manufactured by Glava, the leading Scandinavian insultation supplier, just acquired by Saint Gobain, the €41 billion global construction giant

CEMEX HOUSING SOLUTIONS

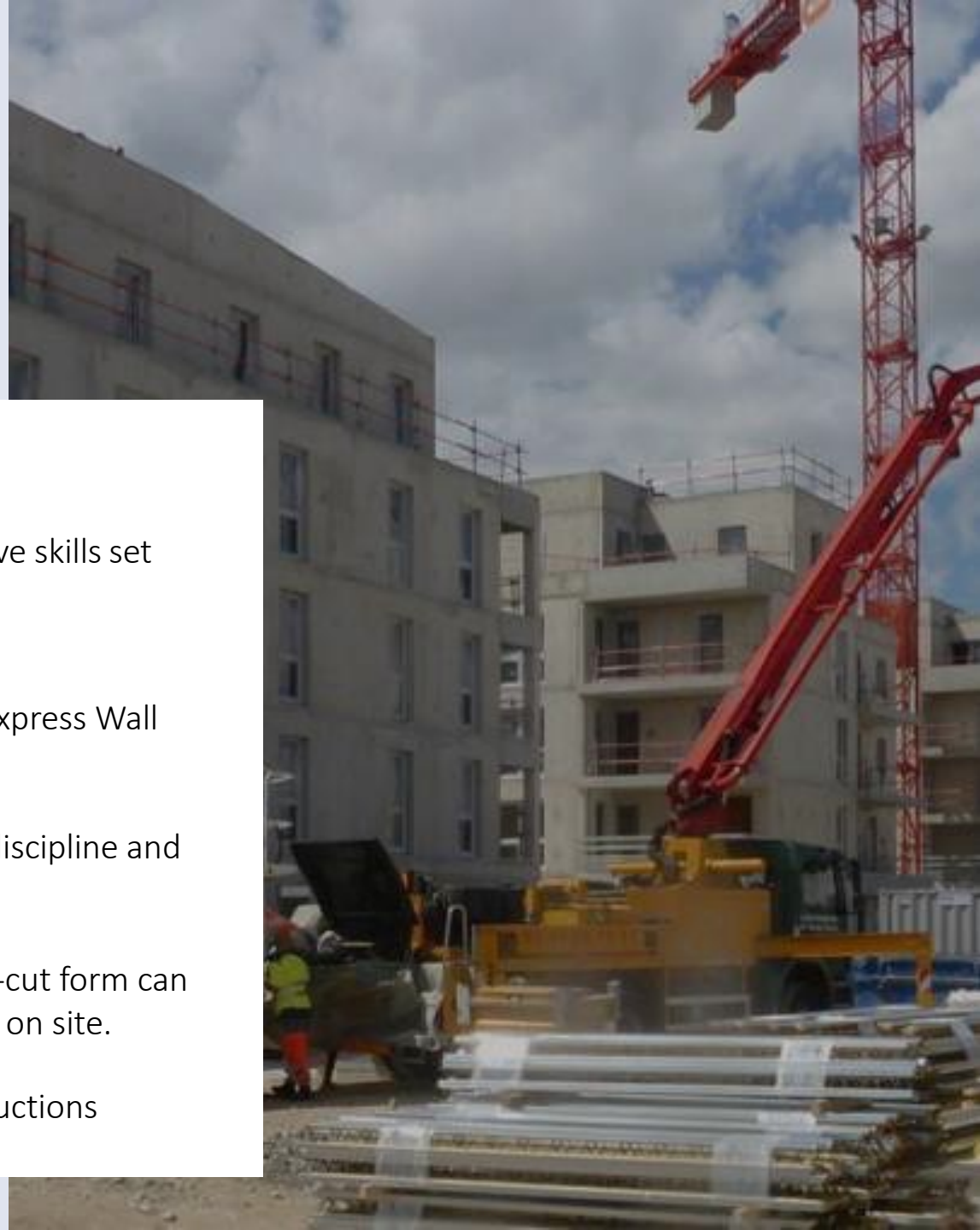
UK & Ireland partner for Cemex

eurocell®

CAVALOK CAVALOK BUILDING PRODUCTS

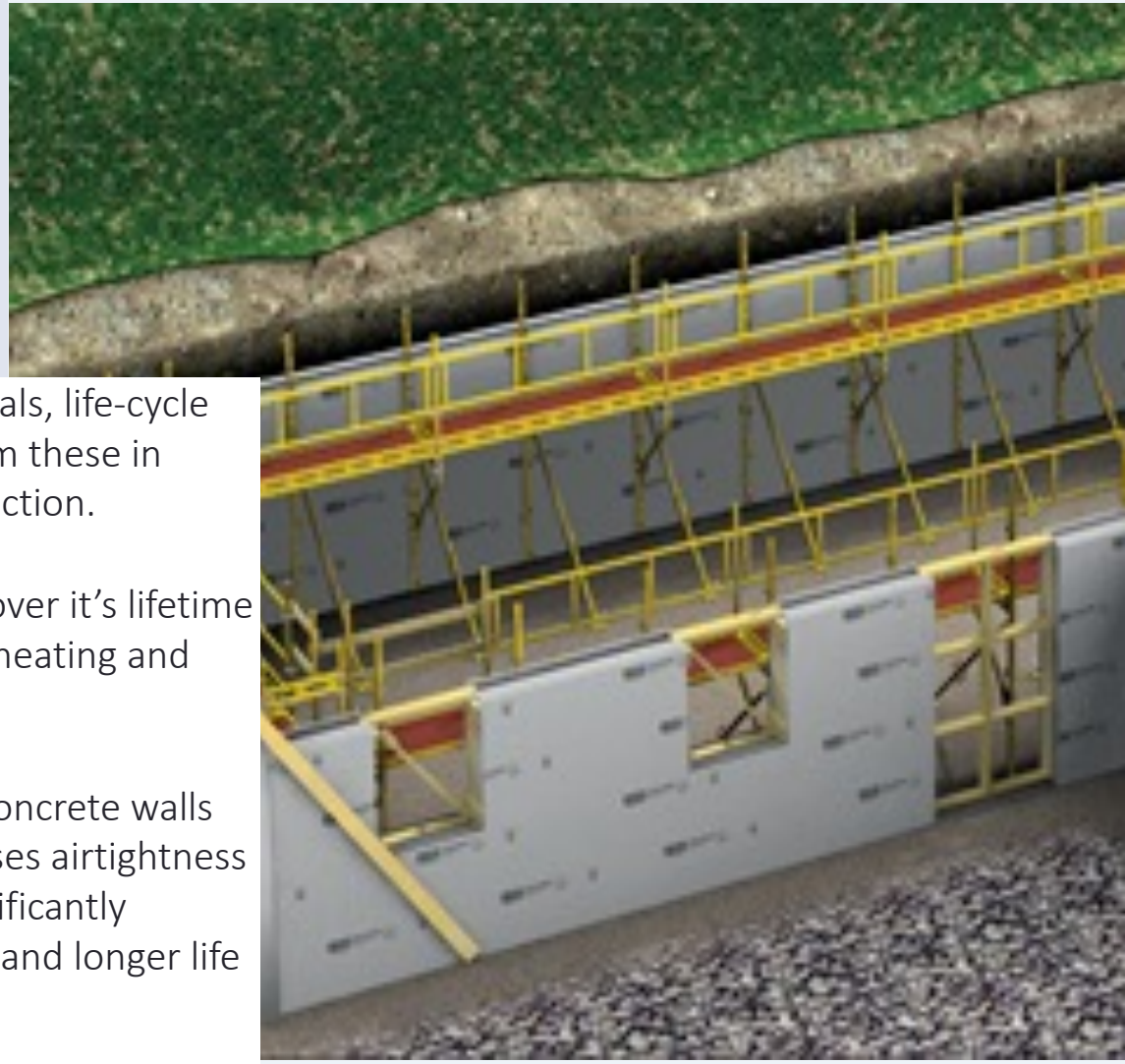
Cavalok frames by Eurocell
can be used as part of the build system

Lower build cost



- Fast construction
- Low labour cost utilising an alternative skills set
- Training completed within 3 days
- Can be cut in advance off-site with Express Wall or near-site.
- Just in time delivery enhancing site discipline and cleanliness
- We estimate that using ICF in its pre-cut form can produce savings of between 20-30% on site.
- Built in Quality simple to follow instructions

Sustainability using ICF



- Comparing ICF to other building materials, life-cycle assessments show that they outperform these in nearly every region and type of construction.
- A buildings effect on the environment over it's lifetime shows that the everyday use including heating and cooling is the biggest impact.
- UNiBLOCK's ability to combine in-situ concrete walls with permanent EPS formwork maximises airtightness and thermal efficiency, resulting in significantly reduced energy & environmental costs and longer life expectancy.

UNi BLOCK

A typical build

Simple to use on site

- Light weight and easy to handle
- Help in the reduction of handling injuries at site level

Base track

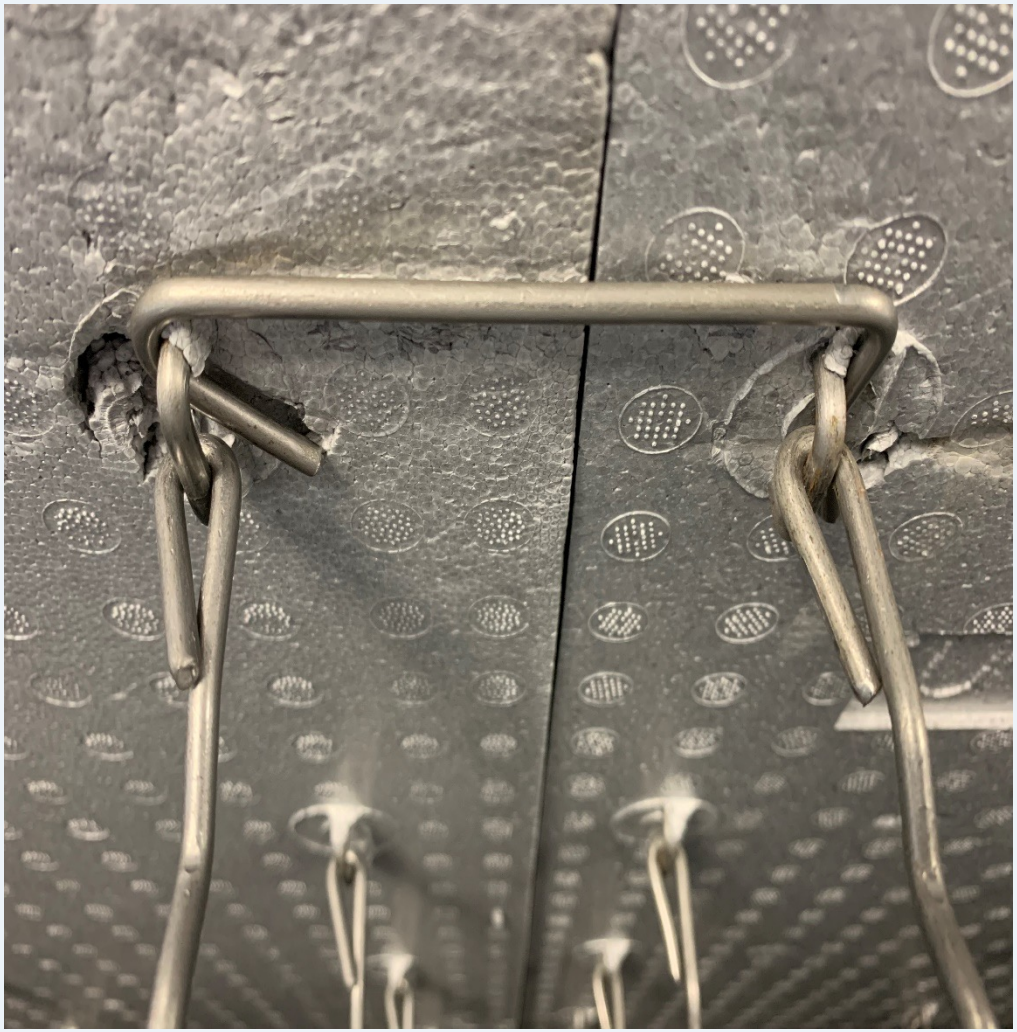
- Shot-fired into the slab or foundation
- Keeping the wall plumb during first row placement

First course

- Setting out of first course as per the designed plan from UNiBLOCK
- Blocks are numbered for ease of placement

Locking together

- Each block is locked together with the next adjacent block using a simple metal clip to hold them in place.
- The internal metal cages are connected resulting in a secure and stable shuttering system ready for the concrete to be poured.



Platform systems

- As each wall gains height, a working platform and bracing system is attached to keep the wall plumb during placement

Doors & windows pre-framed

- As each wall is designed and cut offsite, placement of windows and doors is simplified

Concrete placement

- Pump mix concrete is placed using a boom pump, or smaller line pump where practical.

- Typical concrete specification: C25/C30 10mm aggregate with S3 slump.

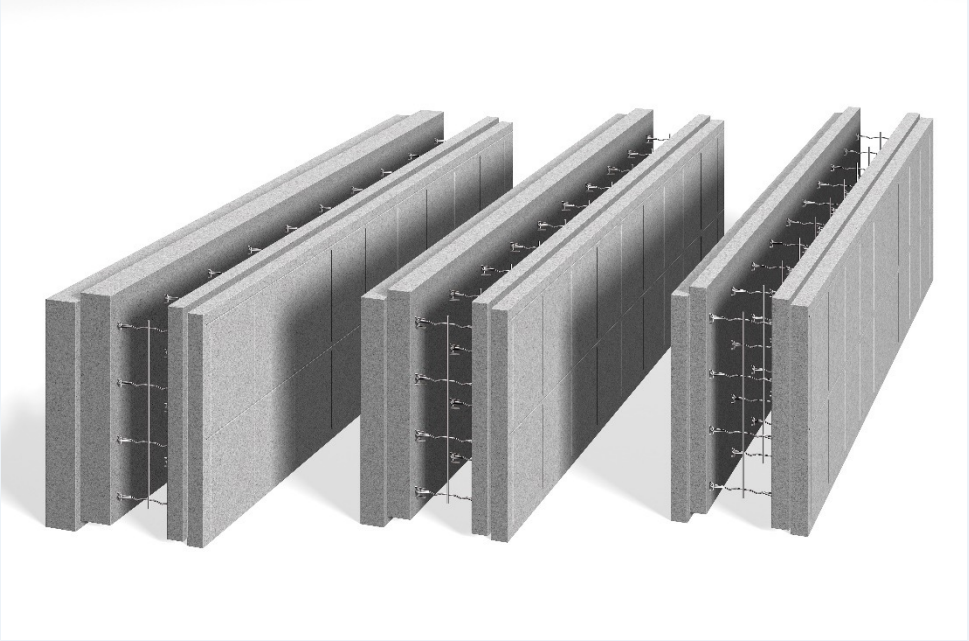
A range of finishes

UNI BLOCK

Unit 5-7 Queensway Industrial Estate
Dunlop Way
Scunthorpe
DN16 3RN

Tel: 0333 355 6879

www.uniblock.co.uk



Contact info.

james@uniblock.co.uk

07585 562835