

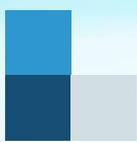


Insulated Flooring Above Beam



Benefits

- Flexible U-value performance
- Easy to install
- Reduce your excavation and soil removal
- Reduced waste
- Faster build
- No specialist skills needed



**LONGLEY
CONCRETE**

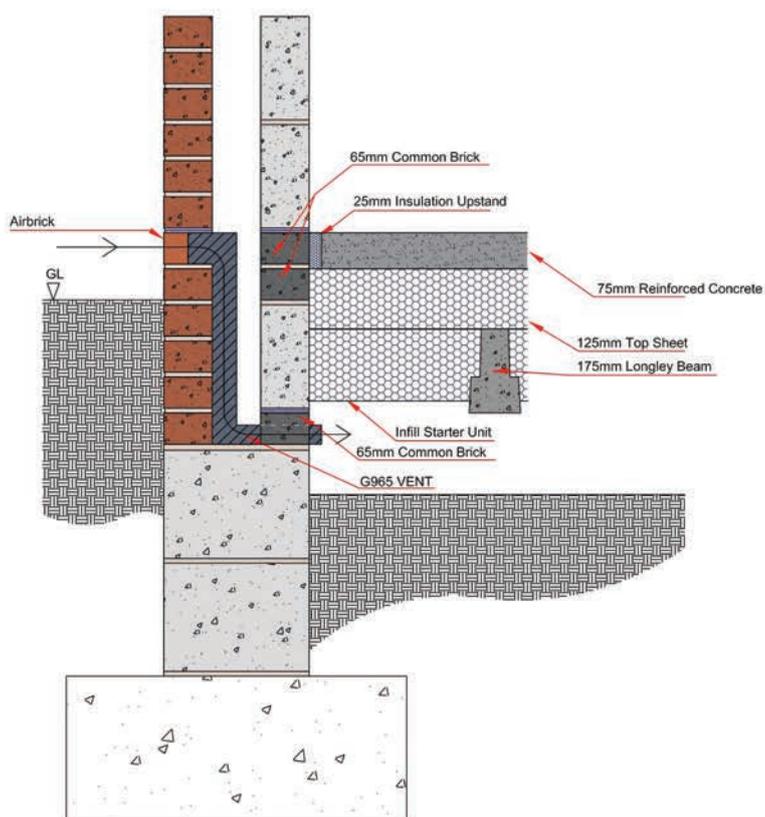




Insulated Flooring – Above Beam

Longley Concrete's insulated above beam flooring system consists of 175 mm deep pre-stressed concrete beams, infilled with lightweight expanded polystyrene (EPS) blocks which are supplied in easy-to-handle lengths enabling fast installation. The EPS blocks are available in a range of configurations providing a flexible approach to achieving U-values. The floor is completed with a structural concrete topping reinforced with either polypropylene fibres or steel mesh, laid over a top sheet of EPS insulation.

Sample Section



Longley Concrete's Top Sheet EPS insulation units negate the need for concrete blocks, fitting neatly between concrete T-beams to provide both the total floor insulation and a framework on which to lay the structural concrete topping.

The shape of the panels has been developed carefully to minimise thermal bridging at the critical point (E5 in SAP) between the wall and floor.

When installed, the Top Sheet system can form an unbridged layer of insulation above and the T-beams, along with the infill units. This maximises the thermal insulation potential of the ground floor.

Toppings

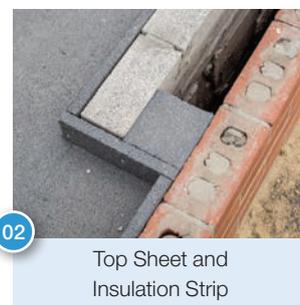
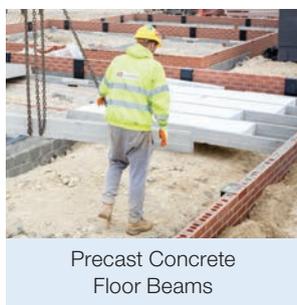
Extensive testing has been carried out on the composite action of this flooring system incorporating steel and fibre reinforced concrete.

The finished topping specification is flexible to accommodate a wide variety of floor loadings to suit the application.

Visit www.longley.uk.com for details.



Easy to Install



U-Value Table – Based on 175 mm, Standard Beams

A = 75% Full Panel / 25% Half Panel Installation
 B = 50% Full Panel / 50% Half Panel Installation

Grey / Grey	Grey 150 mm: Infill Panel Grey 75 mm: Top Sheet		Grey 150 mm: Infill Panel Grey 100 mm: Top Sheet		Grey 150 mm: Infill Panel Grey 125 mm: Top Sheet		Grey 150 mm: Infill Panel Grey 150 mm: Top Sheet	
	A	B	A	B	A	B	A	B
P/A	A	B	A	B	A	B	A	B
0.80	0.16	0.17	0.14	0.15	0.13	0.13	0.11	0.12
0.70	0.16	0.17	0.14	0.15	0.13	0.13	0.11	0.12
0.60	0.16	0.17	0.14	0.14	0.12	0.13	0.11	0.12
0.50	0.16	0.16	0.14	0.14	0.12	0.13	0.11	0.11
0.40	0.15	0.16	0.13	0.14	0.12	0.12	0.11	0.11
0.30	0.14	0.15	0.13	0.13	0.12	0.12	0.10	0.11

Certification

- Longley Concrete's Top Sheet system is agrément certified
- The system has been thoroughly tested by UKAS testing labs to meet British and European standards
- The insulated above beam flooring system is accepted by NHBC

Sustainability

The environmental integrity of Top Sheet products is exceptional:

- Zero ODP (Ozone Depletion Potential)
- A+ BRE Green Guide rating for generic EPS products
- CFC, HFC and HCFC free
- Contains recycled content
- Boards are 100% recyclable

Durability

The insulation properties of Longley's Above Beam insulated flooring system will remain effective for the life of the building. The cells in the board contain air, ensuring consistent performance throughout the lifetime of the products.

They are dimensionally stable products, which are resistant to attack from bacteria, moulds and fungi, and will not provide nutrient value for insects or vermin.



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