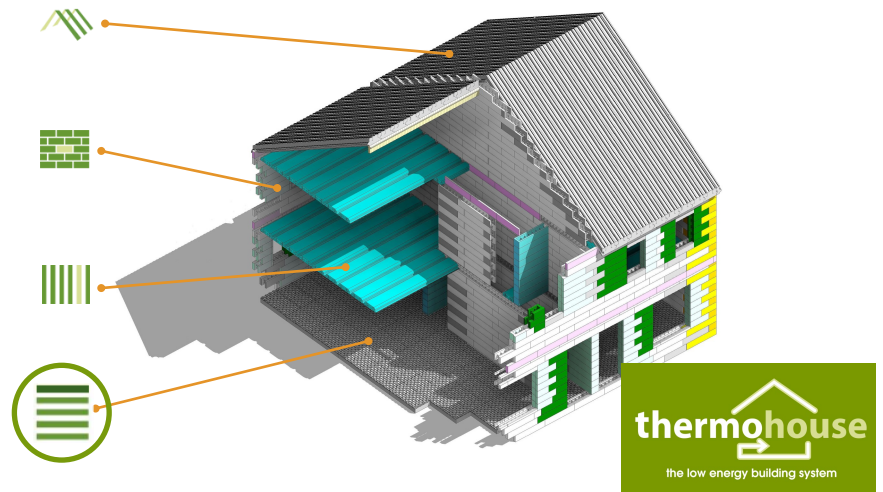




Our new Thermoboard Insulation offers thermal efficiency when used in conjunction with the Thermohouse system ensuring your home is energy efficient;

- Meets Part L of Building Regs
- It is perfect for your low-energy building or Passive House project
- Easy to install and environmentally friendly while reducing your carbon footprint and is a sustainable and fully recyclable product.
- Remarkable durability and soundproofing qualities.
- Water and moisture-resistant

What is the Thermohouse System?



Innovative All-in-one Building System – Walls, floors, roof & board

Benefits of Thermoboard Insulation?

Thermoboard insulation offers numerous benefits that significantly enhance the **comfort, efficiency, and sustainability** of buildings. Primarily, it acts as a **barrier to heat loss**, helping to maintain a consistent indoor temperature throughout the year. This improved thermal efficiency translates into **lower energy consumption** for heating and cooling, leading to substantial cost savings on utility bills. Additionally, under-floor insulation contributes to a healthier living environment by **reducing the likelihood of dampness and mold growth**, which can be detrimental to indoor air quality and overall health. It also provides soundproofing benefits, minimizing noise transmission through floors, and enhances the structural integrity of the building by protecting against ground moisture. Overall, under-floor insulation is a crucial component in creating energy-efficient, comfortable, and durable homes and buildings.



Why Thermohouse?



Energy Efficiency



Comfort & Warmth



Sound Insulation



Speed of Build



Airtightness



Superior Structures



Design Flexibility



Easy to Transport & Assemble




Self Build Projects




Residential Projects

U-Value Calculations: Thermohouse Under Floor (0.031W/mK)



the low energy building system

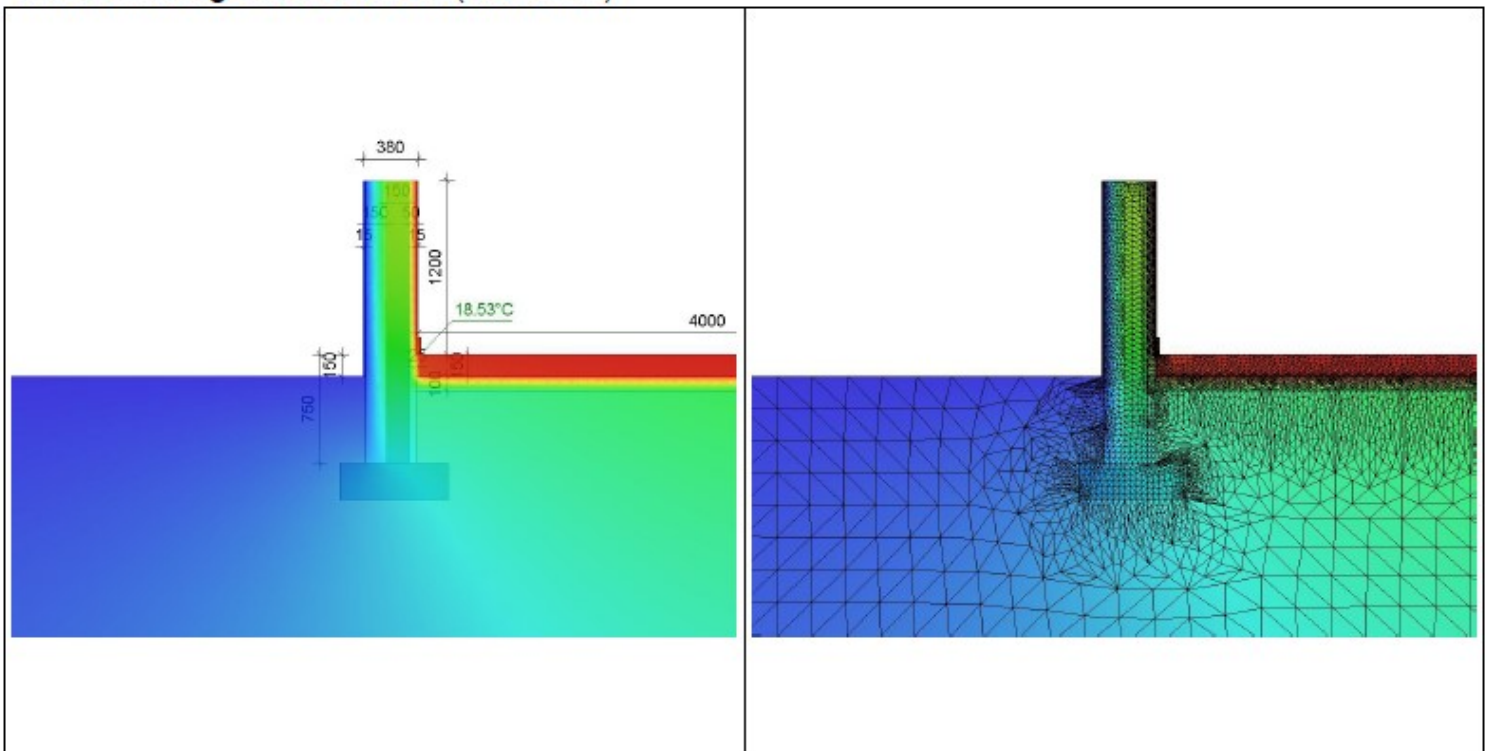


the low energy building system

Project 350mm ICF External Wall with Structural Slab on Insulation
Client Thermohouse
Date 23/08/2024
Purpose Ground Floor U-value

Thickness, mm	Perimeter/Area, m ²									
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	U-value, W/m ² K									
100	0.13	0.17	0.19	0.21	0.22	0.23	0.23	0.24	0.24	0.24
110	0.12	0.16	0.18	0.19	0.20	0.21	0.22	0.22	0.22	0.22
120	0.12	0.15	0.17	0.18	0.19	0.20	0.20	0.20	0.21	0.21
130	0.11	0.15	0.16	0.17	0.18	0.19	0.19	0.19	0.19	0.20
140	0.11	0.14	0.15	0.16	0.17	0.17	0.18	0.18	0.18	0.18
150	0.11	0.13	0.15	0.16	0.16	0.17	0.17	0.17	0.17	0.17
160	0.10	0.13	0.14	0.15	0.15	0.16	0.16	0.16	0.16	0.16
170	0.10	0.12	0.13	0.14	0.15	0.15	0.15	0.15	0.16	0.16
180	0.10	0.12	0.13	0.14	0.14	0.14	0.14	0.15	0.15	0.15
190	0.09	0.11	0.12	0.13	0.13	0.14	0.14	0.14	0.14	0.14
200	0.09	0.11	0.12	0.12	0.13	0.13	0.13	0.13	0.14	0.14
210	0.09	0.11	0.11	0.12	0.12	0.13	0.13	0.13	0.13	0.13
220	0.08	0.10	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.13
230	0.08	0.10	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12

Thermal bridge assessment (f_{Rsi} -value)



The Psi-value has been calculated in accordance with BR 497

$$\Psi = +0.079 \text{ W/(mK)}$$