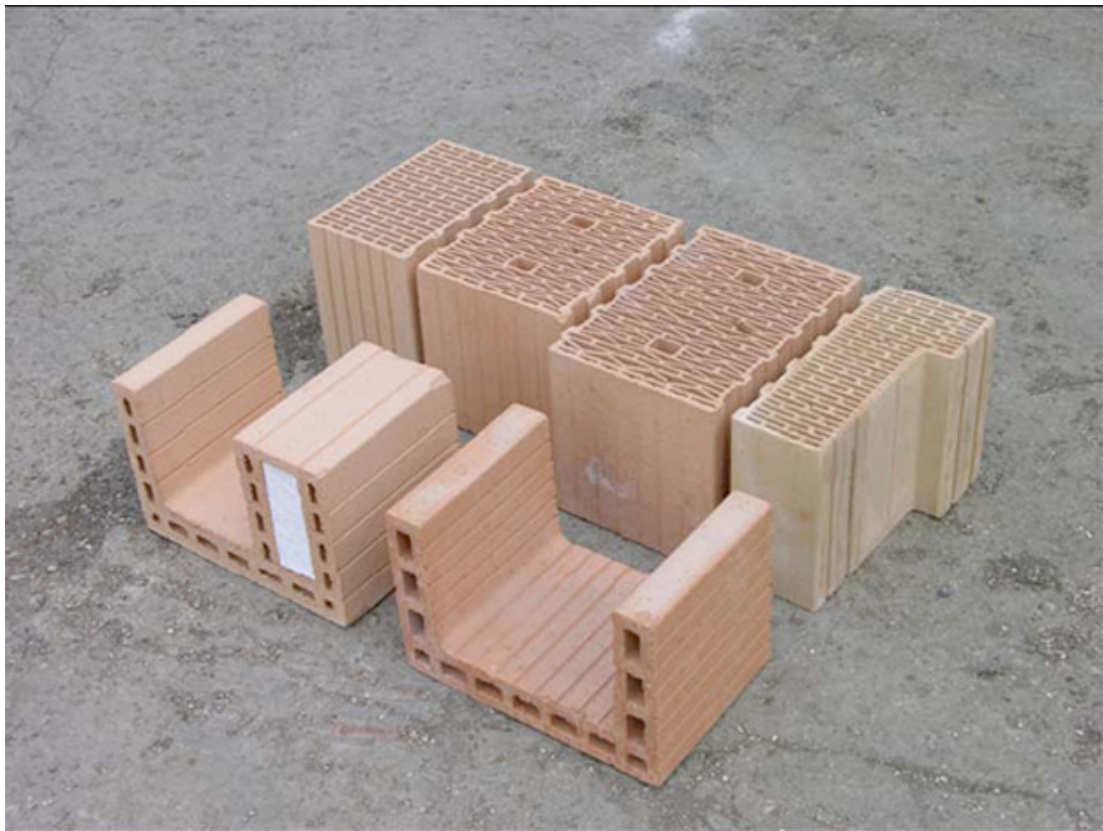




## Thermoplan

ThermoPlan system is a thin bed insulated structural solid wall, with render finish externally. Other finishes (claddings such as stone, brick, timber etc) are available as ThermoPlan Clad Systems. Superinsulated systems are available with external insulation as ThermoPlan® Plus. The ThermoPlan® blocks are fired aerated clay, planed to a tolerance of less than 1mm. The mortar bed is applied by roller, without mortar in the perps. The systems come with a full range of lintels, corner blocks, fixings, tools etc. The render and plaster systems are mineral, and are guaranteed for the blocks.



### System Benefits:

- Excellent thermal and airtightness performance, according to new part L,
- with very low 'y' values
- Modern Method of Construction, easy and foolproof
- Very quick construction: typically 3 times faster than cavity walling
- Highly cost efficient
- Simple, robust detailing with full systems parts
- Breathing construction
- Full design and site support.
- List of approved applicators
- Tried and tested system, fully certified

**Environmental Performance:**

BRE Green Guide rating: A  
30% less embodied CO<sub>2</sub> than comparable cavity wall  
Non-toxic and sustainable materials

**Thermal Values:**

| Thermoplan System<br>Block ZT10 & ZV10 | K-Value<br>(W/mK) | U-Value<br>(W/m <sup>2</sup> K) |
|--|-------------------|---------------------------------|
| 300mm Wide                             | 0.10              | 0.31                            |
| 365mm Wide                             | 0.10              | 0.26                            |
| 400mm Wide                             | 0.10              | 0.24                            |
| 425mm Wide                             | 0.10              | 0.22                            |

| Thermoplan System<br>Block ZT10 & ZV10 | K-Value<br>(W/mK) | U-Value<br>(W/m <sup>2</sup> K) |
|--|-------------------|---------------------------------|
| 300mm Wide                             | 0.11              | 0.33                            |
| 365mm Wide                             | 0.11              | 0.28                            |

Calculation of  $\lambda$  (psi) and  $\gamma$  values is available for specific build ups, enabling better thermal/ carbon assessment according to New Part L calculations, for higher performance and/or thinner structures. All block systems have a minimum of 90 mins fire resistance.

**Full System Components:**

- External walling: A full range of standard blocks and specials, including corner blocks, reveal blocks, make up blocks, insulated clay lintels, blocks for ring beams etc.
- Mortars: Thin bed mortar is provided free with the blocks. Insulated mortar is available for cuts and repairs.
- Internal walling: Acoustic load bearing Thermoplan blocks and mortar for partitions and party walls
- Fixings and tools: Fixings for internal walls, wall plates, windows etc. A full range of tools is available for all tasks.
- Renders: Compatible, guaranteed external through coloured mineral renders with over 200 colours
- Plasters: A range of guaranteed lime, clay, lime-cement and gypsum internal plasters.



### Design & Build Support

**Design support:** Full design support including assistance with detailing, thermal and other calculation, suggested engineering details

**Training:** either at our site training facility or on site for applicators, site managers etc

**Site Support:** We can arrange on site assistance, giving advice on technical, application and quality issues. We have a service to work with contractors who are new to the product with full training available.

**Approved Applicators:** We can provide a full list of trained and approved applicators for the various systems processes.



**Disclaimer:**

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