



Thermoplan

NBT *ThermoPlan*® | System description:

NBT *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 NBT *ThermoPlan*® *Clad Systems*. Superinsulated systems are available with external insulation as NBT *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.

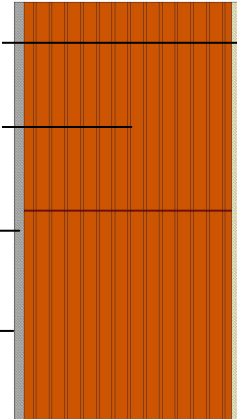
NBT *ThermoPlan*®

15mm Baunit Render System & Décor Finish

NBT *ThermoPlan*® Block on Thin Bed Mortar

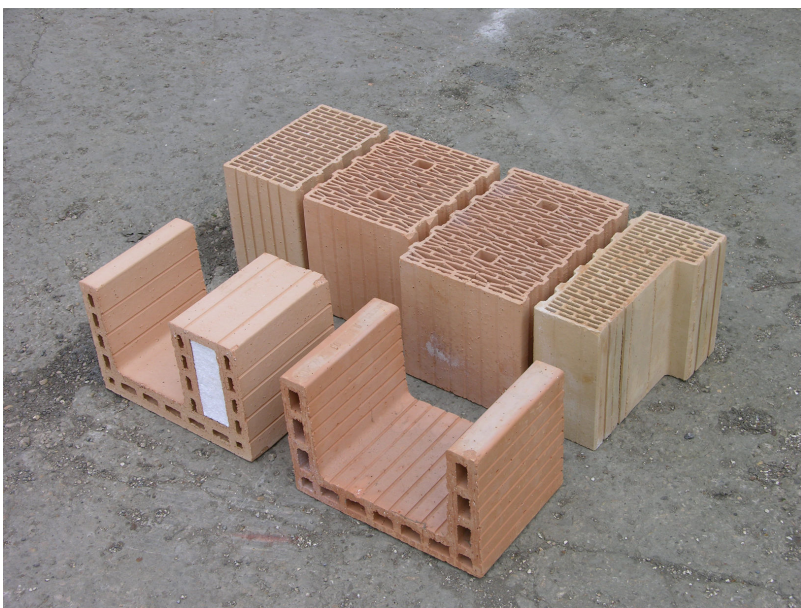
12mm Mineral Plaster

NBT Breathable Trade Emulsion



System Application:

NBT *ThermoPlan*® Systems are suitable for low rise buildings (up to 4 storeys) of all kinds including housing, flats, offices and schools. Insulated basements and cellars can also be built with NBT *ThermoPlan*® systems, with suitable tanking. NBT *ThermoPlan*® systems can also be used as infill in high rise and large span buildings. Please contact NBT for more details.



System Benefits:

- Excellent thermal and airtightness performance, according to new part L, with very low γ 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 from NBT
- List of approved applicators
- Tried and tested system, fully certified

Environmental Performance:

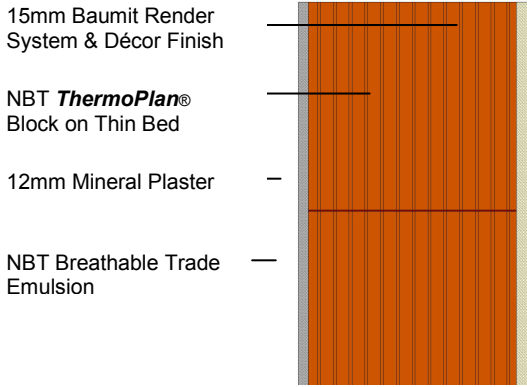
- BRE Green Guide rating: A
- 30% less embodied CO₂ than comparable cavity wall
- Non-toxic and sustainable materials



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Technical details: Thermal values

NBT *ThermoPlan*®



NBT <i>ThermoPlan</i> ® Block		K-Value (W/mK)	U-Value (W/m²K)
ZT9 ZV9	300mm Wide	0.09	0.28
	365mm Wide	0.09	0.23
	425mm Wide	0.09	0.20
ZT11 ZV11	240mm Wide	0.11	0.42
	300mm Wide	0.11	0.34
	365mm Wide	0.11	0.28
	425mm Wide	0.11	0.25
	490mm Wide	0.11	0.21

Calculation of ψ (psi) and γ 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 minutes 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.

NBT Support:

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

Training: either at NBT or on site for applicators, site managers etc

Site Support: NBT will assist on site, giving advice on technical, application and quality issues. NBT have a service to work with contractors who are new to the product with full training available.

Approved Applicators: NBT have a list of trained and approved applicators for the various systems processes.

