TECHNOPOL SA
ENERGY SAVING MATERIALS

Technoblock

MOULDED EPS SLAB BLOCKS AND VOID FORMERS

PRODUCT DESCRIPTION

Technoblock is a moulded EPS block that takes the place of the cement "ash" block in a rib-and-block suspended slab. It is laid between the pre-cast lintels, the structural topping is cast over and between the blocks, and the EPS stays in the finished floor as permanent lightweight void fill. It cuts concrete volume, dead load and handling, and it adds thermal and acoustic damping inside the slab. The block is non-structural: the concrete ribs and topping carry all the load, and the span, rib section, topping and reinforcement are the project structural engineer's design.

TECHNOBLOCK PROPERTIES

PROPERTY	VALUE
Structural role	Non-structural permanent shuttering (lost formwork) and void former.
#120 block (solid)	550 mm across the ribs x 360 mm along the rib (320 mm laying module) x 120 mm deep, solid.
#190 block (three cores)	550 mm across the ribs x 360 mm along the rib (320 mm laying module) x 190 mm deep.
Block soffit face between ribs	500 mm on both blocks. The 550 mm block dimension runs across the ribs and includes the seating rebates that sit on the lintel tops.
Span	Technoblock is not a spanning element and carries no span rating.
Construction loading — the laid deck	The laid blocks are not a working deck.
Extenders (#190 only)	1.2-1.23 m long, 60 / 80 / 90 / 175 / 260 mm thick. Stack on the #190 to deepen the void without casting extra concrete.
Packaging	#120: 30 per bundle, bundle 1630 x 730 x 550 mm. #190: 20 per bundle, bundle 1670 x 780 x 550 mm.

Summary only — 9 further properties are given in the Technoblock datasheet.

APPLICATIONS AND SCOPE

APPLICATIONS

- Rib-and-block (beam-and-block) one-way-spanning suspended slabs — the core use
- Balcony slabs and suspended ground-floor slabs (#120 solid)
- Multi-unit residential and commercial multi-storey floor slabs
- Engineer-specified cut EPS void formers: biaxial slabs, thermally-broken rib slabs, valve chambers and pit fillers

WHERE NOT TO USE IT

- As a structural element of any kind. Technoblock is lost formwork: it has no span rating and no load rating
- As a working deck. Do not let trades walk on the laid blocks, do not land back-props on them, and do not stack reinforcement
- The #120 where the drawing calls for the #190 (or the reverse)
- As an insulation layer in a SANS 10400-XA calculation

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ISO 9001