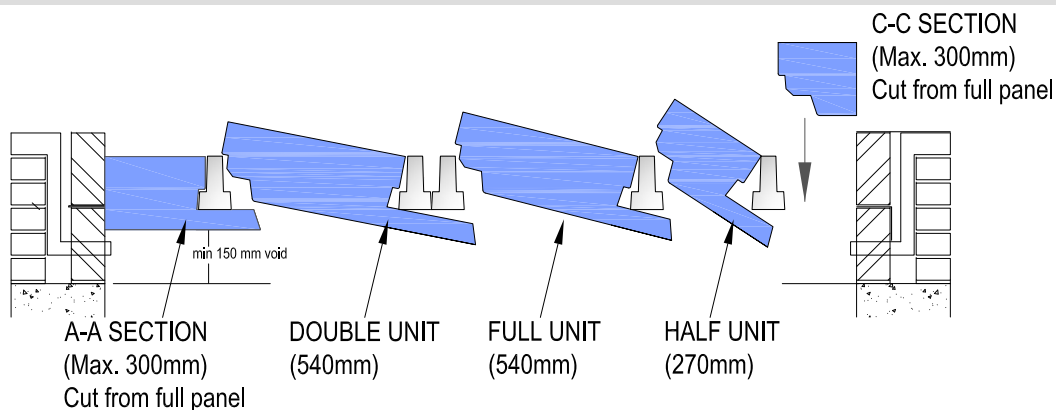


CUBE6 THERMAL FLOORS



Installation

Care must be taken not to overload the floor beams or polystyrene panels during the construction period.

- With the first few beams positioned, the polystyrene panels can be placed in between the beams in the direction shown on the layout drawing. Where the start point is an A-A then the panel will need to be cut to position the first beam, once this is positioned then the remaining beams can be positioned and panels fitted. The panels must be fitted tight between the beams and against the internal walls.
- Cut panels less than 400mm long must not be placed into the floor.
- Closure blocks to be positioned after the panels are installed and to the external loadbearing walls only, internal sleeper walls to be filled with concrete with the polystyrene panels either side acting as a shutter. The polystyrene can be formed to cover the internal sleeper wall, only when the partitions to be built off the concrete slab are non-loadbearing.
- All loadbearing walls to be built through to the foundations below.
- Where cut rows occur standard panels can be cut lengthways to suit the beam centres and a 20 mm by 90 mm rebate trimmed from the cut edge to fit snugly onto the beam shoulder.
- Once the panels are installed they should not be walked on. If a temporary working platform is required the panels should be covered with timber boards. When wheelbarrows are used, planks must be placed to spread the wheel load to the concrete beams. Spot boards must be used when tipping and shoveling.
- To avoid damage to the polystyrene panels, the structural floor screed should be laid as soon as possible after the blocks have been installed.
- Where gaps occur, concrete is placed along the edges of the polystyrene panels to prevent displacement during the main concreting operation. A DPM (max.1200 gauge) will be required should a self levelling screed be used.
- When using a concrete pump, truck or skip, concrete should not be discharged onto the polystyrene panels from heights greater than 300 mm and concrete heaps must not be formed over 150 mm high.
- The structural screed should be placed and compacted. Provision should be made for a suitable concrete finish to be achieved without standing on or overloading the polystyrene panels.

Concrete Specification

Domestic and residential

- minimum 60mm thick C25/30 concrete reinforced with A142 mesh
- minimum 60mm thick C25/30 screed* with Fibrin 23 polypropylene fibres at a density of 0.91kg/m³

Domestic and residential, Communal areas in flats and offices

- minimum 60mm thick C28/35 self-levelling/ self-compacting screed* with Fibrin PC12 polypropylene fibres at a density of 0.75kg/m³

* in accordance with BS 8500-2:2006 with a maximum aggregate size of 10mm

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