

# T65 Impact Panels Floor System

## Product Data Sheet

|                              |   |  |
|------------------------------|---|--|
| <u>APPLICATIONS</u>          | : | Flat Concrete, CFC base or suspended Timber Floor Systems  |
| <u>BASE MATERIAL</u>         | : | Low Density Polyethylene Foam  |
| <u>SURFACE MATERIAL</u>      | : | Wet area CFC Board   |
| <u>BASE CELL STRUCTURE</u>   | : | Closed.  |
| <u>PANEL THICKNESS</u>       | : | 10mm nom thickness.  |
| <u>STANDARD SIZE</u>         | : | 1200mm X 900mm   |
| <u>WEATHERABILITY</u>        | : | Very good –unaffected by water   |
| <u>OPERATING TEMPERATURE</u> | : | -40 <sup>0</sup> C to +90 <sup>0</sup> C   |
| <u>CHEMICAL RESISTANCE</u>   | : | Resists most common acids and chemicals.   |
| <u>WATER ABSORPTION</u>      | : | < 2% after 28 days   |
| <u>ODOUR</u>                 | : | None   |
| <u>WEIGHT</u>                | : | Appx 8.6kg per panel   |
| <u>IMPACT NOISE</u>          | : | Field test result Ln,r,w: = 54<br>210mm concrete slab<br>Sofit 8mm vermiculite                           |
| <u>ADHESIVES</u>             | : | Impact panel to subfloor;<br><i>Bostik Ultraset Overlay</i><br>Tiles to Impact Panels;<br><i>ASAFlex</i> |



# Installing T65 Impact Panels

## Description

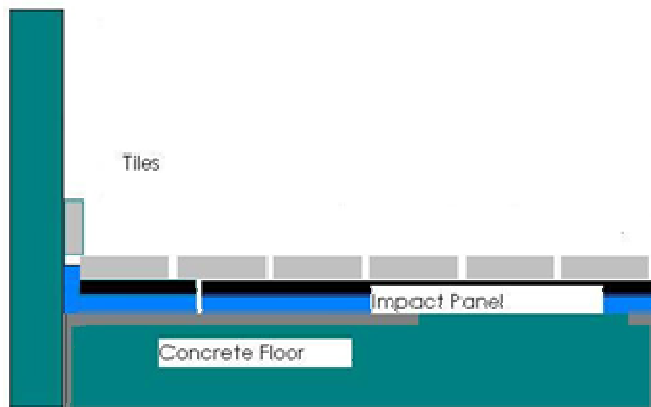
T65 Impact Panels are manufactured by Thermotec using specially developed closed cell polyethylene foam sheet factory laminated to a smooth, durable compressed fibre cement board. Particularly suitable for impact noise reduction over concrete slab floors and providing a surface ready for tiling, parquet, cork or timber floor coverings.

Impact Panels are usually specified for use when a low profile surface is required as a base for tiling or other hard surface flooring; Living areas such as Kitchens, Dining rooms, Family rooms and Balcony's.

## Application

### Step 1 – Perimeter edge preparation

It is very important to isolate the edges of the panels from the wall face and any columns to prevent mechanical noise transmission into the building structure, thus compromising the “floating” slab noise isolation concept. Self Adhesive Foam Tape (50mm x 5mm) should be applied against the wall to the full depth of the floor system. The architrave or a resilient sealant can then be applied over the top of the strip to conceal the top edge if desired once all flooring is laid.



### Step 2 – Floor preparation

When used on concrete, the surface should be checked for flatness and any lumps removed. Concrete should be free of oil, dust and debris. The adhesive used to apply the panels is moisture activated so the floor should be wet mopped shortly prior to adhering the panels to assist in adhesive curing.



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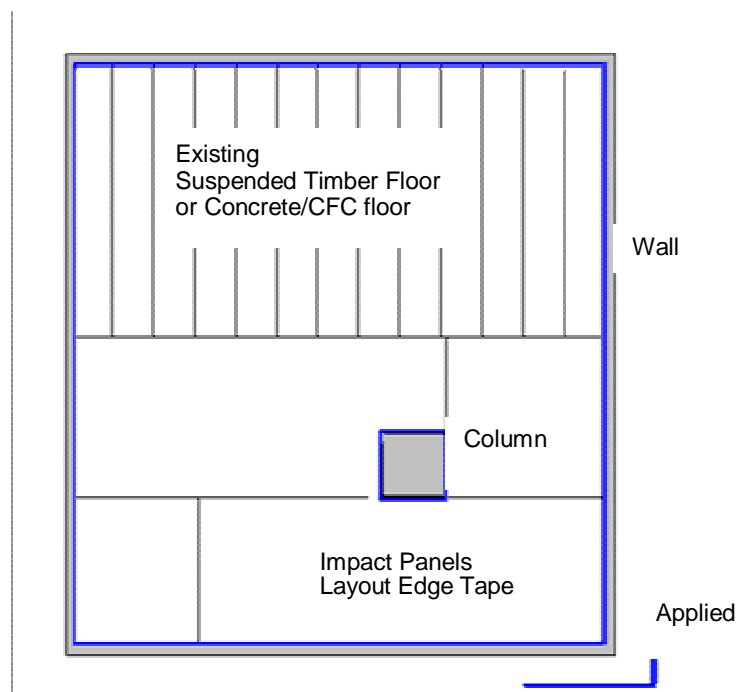
Timber or CFC floors should also be checked for surface imperfections and made smooth.

### Step 3 – Panel Layout

A few minutes spent planning the layout will reduce cutting and waste. To simplify the layout, place a loose run of panels across the area, followed by a line of loose sheets down the area. Overlap panels to establish the location of cuts.

Panels are to be laid closely in a staggered (brick) pattern, edges butted tightly together. If laid over timber, panels should be set out with the long edge laid perpendicular to the floor boards.

An inspection of the layed out sheets will enable the best cutting and joining positions to be established.



### Step 4- Installing panels

*Cutting panels to size.*

Wherever possible, cut edges should be placed to face the wall.

Panels can be cut using the score and snap method. Score the sheet face 4 or 5 times with a “score and snap” knife. Snap the sheet upward for a clean break. Use a sharp blade knife to then cut the foam underlay.



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*Placing panels using adhesive.*

Once the foam tape has been applied to wall and column edges and the floor prepared and wet mopped, panel application can begin.

Start at the furthest corner from the exit and work backwards towards it.

Spread enough adhesive to adhere one panel at a time using a 3mm notch parquet trowel. (Coverage 16-18m<sup>2</sup> per 10 litre pail- Bostik Ultraset Overlay)

Ensure panels are butted closely together and top surface of panels are level. There is adequate "slip" time (approx 40 minutes) to place panels correctly.

Try to face any cut edges to the wall.

Allow at least 24 hours for adhesive to cure (depending on temperature and humidity) and do not move or walk on panels prior.



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# T65 Impact Panels

## Specifiers Sheet

Impact Panels shall be used in all areas where hard surface flooring is to be installed to minimise impact noise transmission to adjoining levels.

Impact Panels will be T65CFC grade closed cell polyethylene, 5mm nominal thickness and acoustic test certificates will be viewed.

Concrete surfaces will be level and scraped free of surface inclusions. If adhesives are used, they should be selected and used following the manufacturer's guidelines .

Edges of panels will be butt joined and sanded level if required in preparation for laying of surface flooring materials.

Care is to be taken to ensure the panels and flooring material does not make direct contact with adjoining walls as this will compromise the acoustic "raft" created by using isolation panels.

It is recommended that strips of Thermotec foam tape be applied along the base of walls or columns to isolate the floor from the building structure. Excess Tape can be trimmed back to floor top level using a sharp knife.



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