

PRODUCT

Thermotec T65 Impact Foam is a closed cell polyethylene foam sheet, particularly suitable for impact noise reduction and protecting waterproof membranes from damage and backfill operations due to its high impact and abrasion resistant properties. Normally specified for use in wet areas where fall to waste pipes are needed and a 40mm to 50mm thick topping mortar will be applied as a base for tiling.

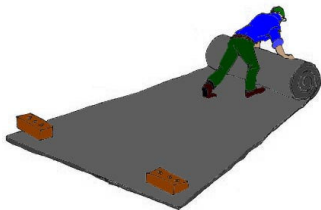


It is very important to isolate the edges of the topping slab from the wall face to prevent mechanical noise transmission into the wall system, thus compromising the floating slab noise isolation concept.

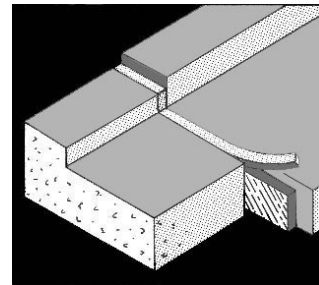
Application

When used on horizontal surfaces, the sheets may be loose laid with edges and ends butted tightly together. Do not overlap material. Polyethylene is very inert and will not react chemically with waterproofing membranes.

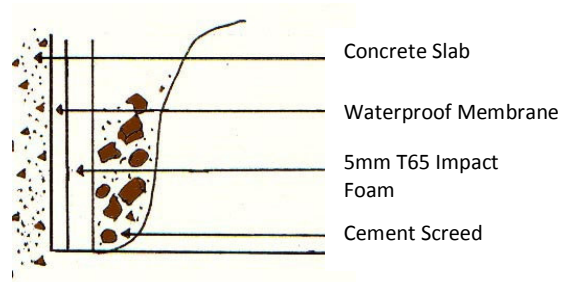
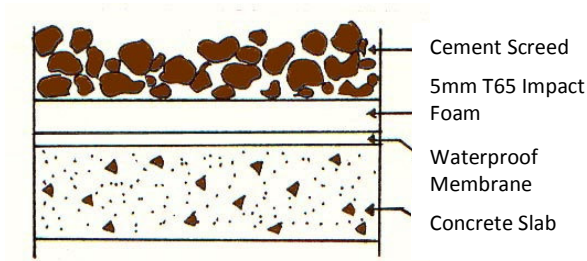
Edges and end joins should be tapped over using adequate tape to seal the join against ingress by the cement when poured over the foam. Gaining adhesion is typically difficult, however 50mm – 70mm wide tape will adhere adequately enough until the topping screed is poured.



Detail



Foam should be cut into strips and should be applied against the wall to the full depth of the topping screed. The architrave or resilient sealant can be applied over the top of the strip to conceal the top edge if desired.



Typical Properties

Description	Properties
Type	Underlayment Mat
Model	T-65
Application	For all concrete systems as an acoustic cushioning layer beneath hard surface floors, floating timber etc.
Material	Closed Cell Low Density Polyethylene Foam
Colour	Black
Nominal Thickness	5mm, 10mm , 15mm
Tensile Strength (BS 443)	300 Kpa
Compressive Strength (ASTM 1056)	ASTM D3575
at 25%	75 Kpa
at 50%	138 Kpa
Compression Set	AS2282.8 50% Compression / 10mins
After 24hrs Recovery	95%
Thermal Conductivity	0.034 W/mk
Water Absorption	less than 2% after 28days
Volume	2%
Fire Test (As 1530.3)	
Spread of Flame	0 (0-10)
Heat Evolved	1 (0-10)
Smoke Developed	4 (0-20)
Temperature Rating	-40 up to 90 deg C
Chemical Resistance	Resists most common acids and chemicals. Does not support growth of micro organisms nor release percytotoxic or mutagenic compounds or metals into water. Safe for contact with drinking water.

Acoustic Performance Table

Product Result	L' nT, w	L'nt, w + C ₁	FIIC
Bare Concrete Slab	71	82	32
5mm T65 Impact Foam	51	53	54
10mm T65 Impact Foam	50	51	56
15mm T65 Impact Foam	47	47	59

Specification

Thermotec T65 Impact Foam “5mm, 10mm or 15mm” delete where required, shall be used in all wet areas where hard surface flooring is to be installed to minimise impact noise transmission to adjoining levels.

Impact Foam will T65 grade closed cell low density polyethylene.

Concrete surfaces will be level and scraped free of surface inclusions. If required, waterproof membranes will be applied and foam applied directly over the membrane. If adhesives are used, they should be selected with care ensuring they do not degrade the waterproof membrane.

Edges of foam will be butt joined and covered with self adhesive tape until topping screed is poured. (All test reports have been conducted with system screed of minimum 40mm thickness)

Care is to be taken to ensure the topping screed does not make direct contact with adjoining walls as this will compromising the floating slab acoustic noise isolation concept. If necessary, strips of T65 can be cut and applied along the base of the wall o isolate it from the edge of the screed. Excess T65 can be trimmed back to screed top level using a sharp knife.