

T65 Impact Foam

Impact foam for multi-level buildings with concrete floors

Effective impact noise reduction
Economical solution at design stage
Ideal for wet areas



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 75mm thick (thicker screed may be used) screed will be applied as a base for tiling.

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 joint against ingress by the cement when poured over the foam. Gaining adhesion is typically difficult, however 50mm – 75mm wide tape will adhere adequately enough until the topping screed is poured.

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.

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. Designed to comply with BS 8204 (screed thickness 75mm)
Material & Density	Closed Cell Low Density Extruded Polyethylene Foam. 3mm – 5mm = 40-45kg/m ³ , over 5mm = 55 – 65kg/m ³
Colour	Black
Nominal Thickness	5mm, 10mm , 15mm
Tensile Strength (BS 443)	300 Kpa
Compressive Strength (ASTM 1056)	ASTM D3575 (ASTM D545-84 = 335 kPA)
at 25%	75 Kpa
at 50%	138 Kpa
Compression Set	AS2282.8 50% Compression / 10mins
After 24hrs Recovery	95%
Load Bearing	10kN
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, solvents and chemicals. Does not support growth of micro organisms nor release cytotoxic or mutagenic compounds or metals into water. Safe for contact with drinking water.

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