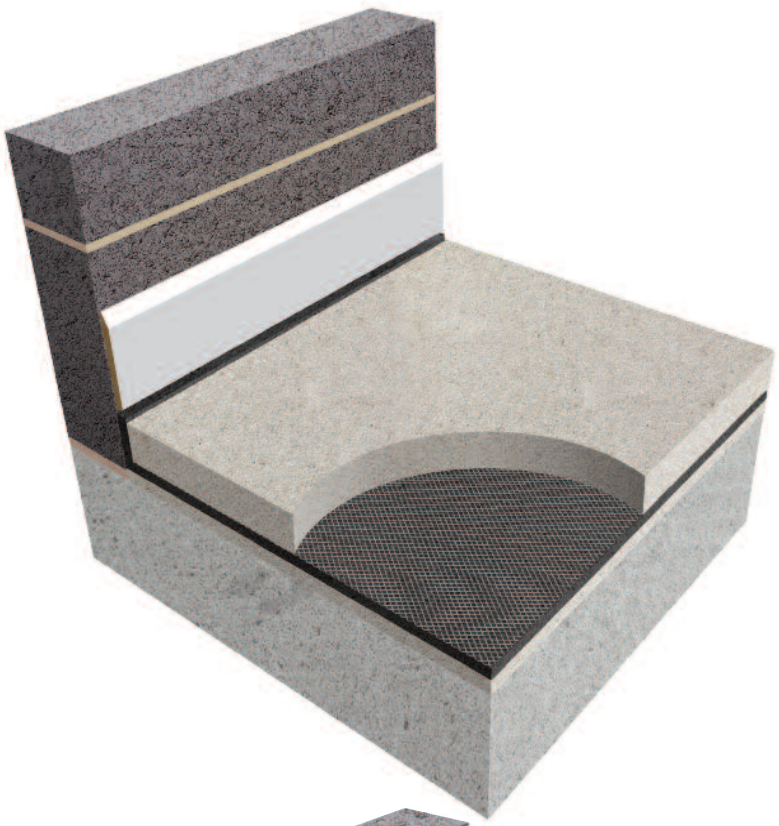
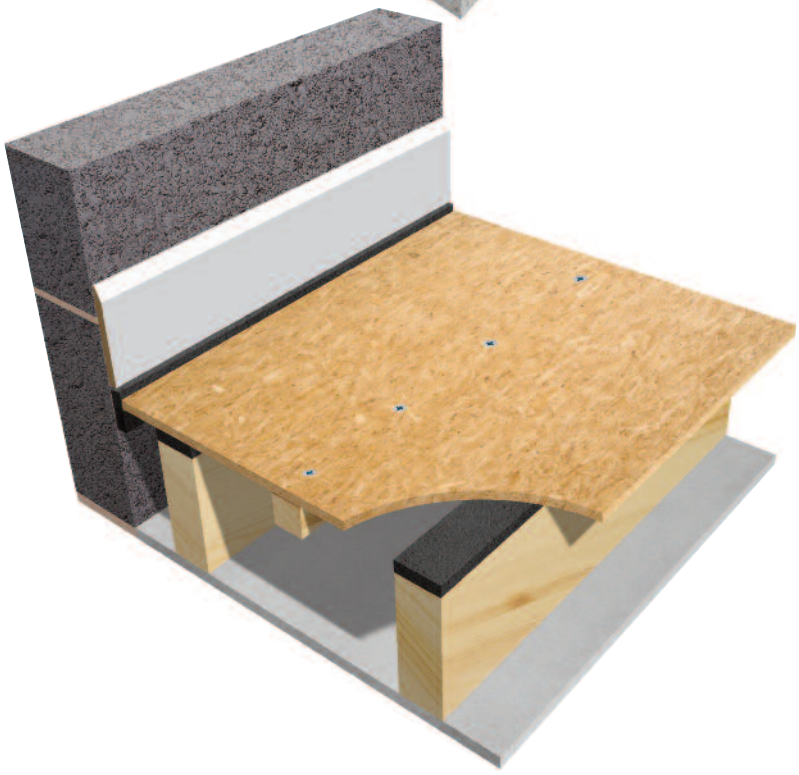
Uniclass	EPIC
L586+L542:N372	E42+E512:Y45
CI/SfB (43)+(45)	R+T (P2)

IMPACTAFOAM

Versatile, impact-noise reducing membrane

A SOUND REDUCTION SYSTEMS PRODUCT





IMPACTAFOAM: VERSATILE, IMPACT-NOISE REDUCING MEMBRANE DESIGNED TO BE USED IN MANY APPLICATIONS.

Impactafoam is an inert crosslinked closed cell polyethylene foam with good compression strength. Impactafoam is supplied in two format: Large rolls for use beneath concrete screeds and laminate/timber flooring, and 50mm wide, self-adhesive strips for use beneath timber battens, partition track, and timber floorboards.

KEY BENEFITS:

- Reduces impact noise
- Only 5mm thick
- High compression strength
- Low thickness loss
- Easy to lay and cut
- Good chemical resistance
- Does not deteriorate or mildew

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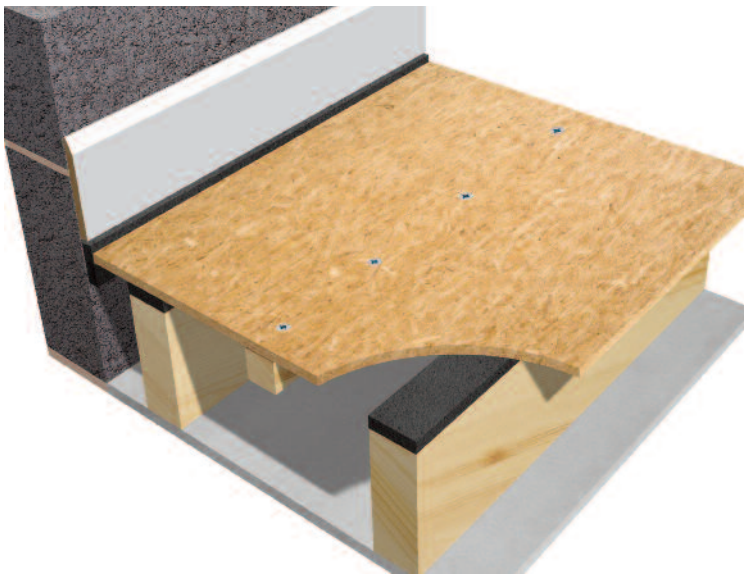
INSTALLATION GUIDANCE

Installation with floor joists



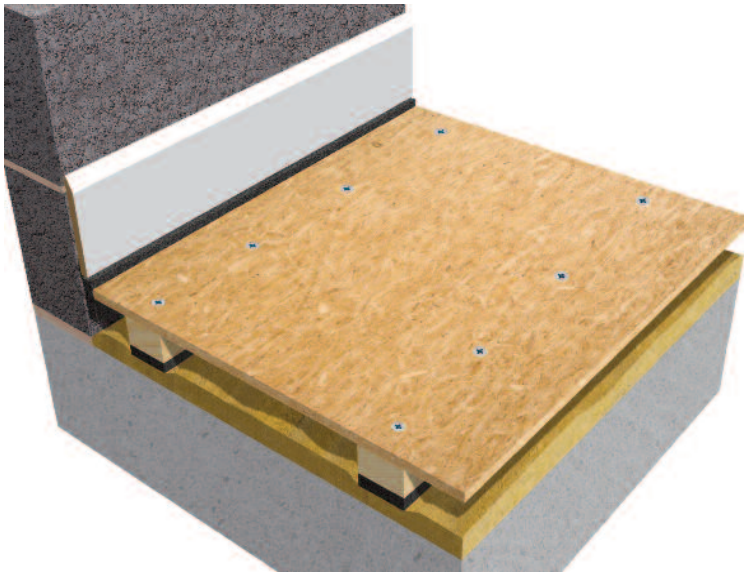
This is a very cost effective way of reducing impact noise in a conventional timber joisted floor. The Impactafoam self adhesive strips are supplied in coil form and are simply applied to the top of the joists providing a resilient seating for the boards. The floor is installed by positioning 50 x 50mm timber battens directly underneath the floor boarding, and centrally between the joists, running parallel to them.

The boards or sheets are screwed to these battens and not the joists. The battens hold the boards together and the whole floor floats on the Impactafoam strips. The boards must be left free of the perimeter walls and skirting, to avoid flanking sound. Impactafoam can be used as a gasket between the boards and the perimeter walls and skirting.

Installation with laminate floors

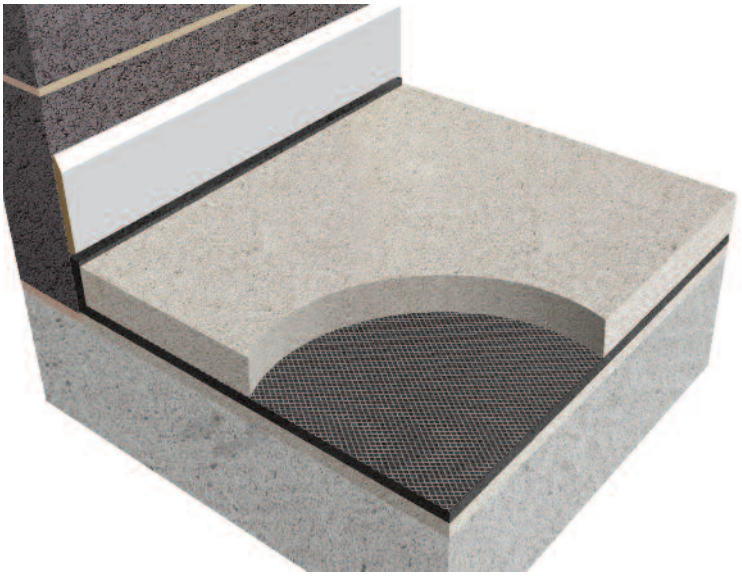
This is an ideal and cost effective method of reducing impact noise caused by footfall or the movement of furniture on a timber or laminate surface. Impactafoam is simply rolled out onto the structural floor and should return up all perimeter walls or columns to stop sound bridging. The laminate floor is laid on top, and should butt up to the Impactafoam at the perimeters. Any overlap should be cut away with a trimming knife. This will completely insulate the laminate floor from the structure.

Installation with floor battens



Impactafoam may also be used as part of a raft floor construction on top of a concrete base. Self adhesive strips are applied to 50x50mm timber battens and laid on top of a 13mm thick 36kg/m^3 insulation quilt over the concrete floor. Boards or sheets are then fixed to the battens giving a floating raft layer. The chipboard should be isolated from the perimeter walls using strips of Impactafoam.

Installation with finishing screed



The floor surface must be clean and free of any material that could puncture the foam. Impactafoam is supplied in 1200mm wide rolls and is laid loose onto the concrete. Edges of adjoining sheets should be overlapped by 150mm and Impactafoam should be turned up at perimeters 25mm above the finished screed level to prevent flanking via the walls. Services penetrating the screed should be isolated by wrapping in Impactafoam. The surface of the Impactafoam should be covered with a 20 x 50mm wire mesh layer to protect it from puncture when the screed is being laid.

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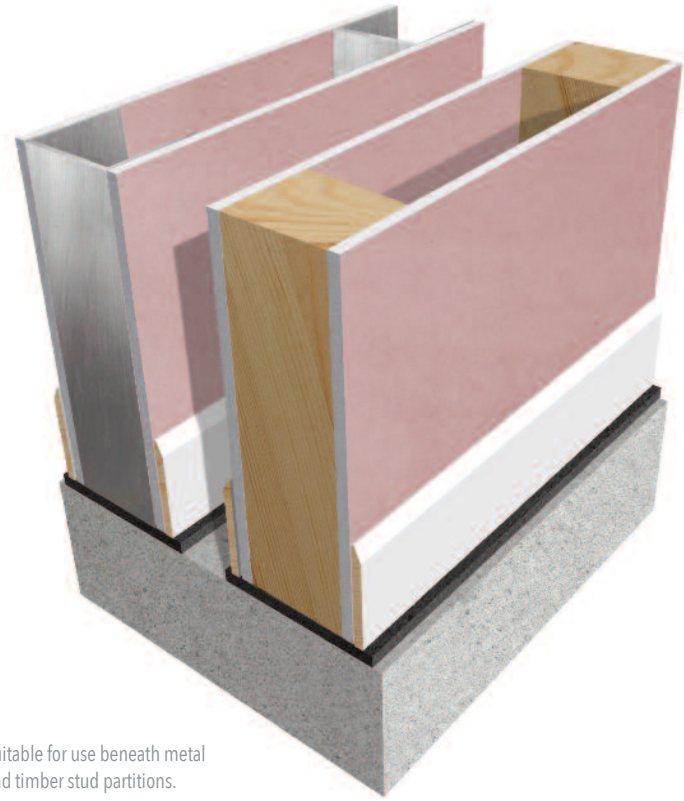
INSTALLATION GUIDANCE (CONT.)

Installation with partitions

Impactafoam is perfect for providing a resilient base to reduce structure borne noise in timber or metal stud partitions. Easily applied in self adhesive strips, they must cover the total width of the partition including the skirting.



Suitable for use beneath metal and timber stud partitions.

PHYSICAL PROPERTIES AND ACCESSORIES

Maximum load 500kg/m³: The maximum load is the load which the thickness loss of the foam is < 10% after 3 years at 23°c and includes both screed weight and traffic load (inc furniture). A typical concrete screed thickness of 50-70mm corresponds to an approximate load of 100kg/m².

Compr. strength @25% compression	ISO 844 30kPa
Water vapour diffusion res, index	ISO 1663 ca6000
Water absorption 2 8days	ISO 2896 <1%

Construction: Crosslinked, closed cell polyethylene

Cutting: By trimming knife

IMPACTAFOAM	DENSITY	SIZES
	33kg/m³	25m x 1.2m x 5mm
		90m/Box, 50mm x 5mm Self adhesive

ACOUSTIC PERFORMANCE

Weghted impact sound pressure level (L) ISO 717 Impactafoam laid onto a structural floor of mass 384kgm² with screed laid over		
50mm Screed L_{nw} = 61dB	70mm Screed L_{nw} = 60dB	100mm Screed L_{nw} = 58dB

Test carried out at Acoustical House EMPA, Dübendorf. Date of test 18.5.88

ISO 140-8 1998 Reduction of impact sound pressure level (ΔL) ISO 7172 1997 Impactafoam laid onto a structural concrete floorwith 6.8mm laminated floor laid over
ΔL_w 22dB

Test carried out at Sound Research Laboritories Sudbury, Suffolk Date of test 15.1.01.

SOUND REDUCTION SYSTEMS

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