



4+2



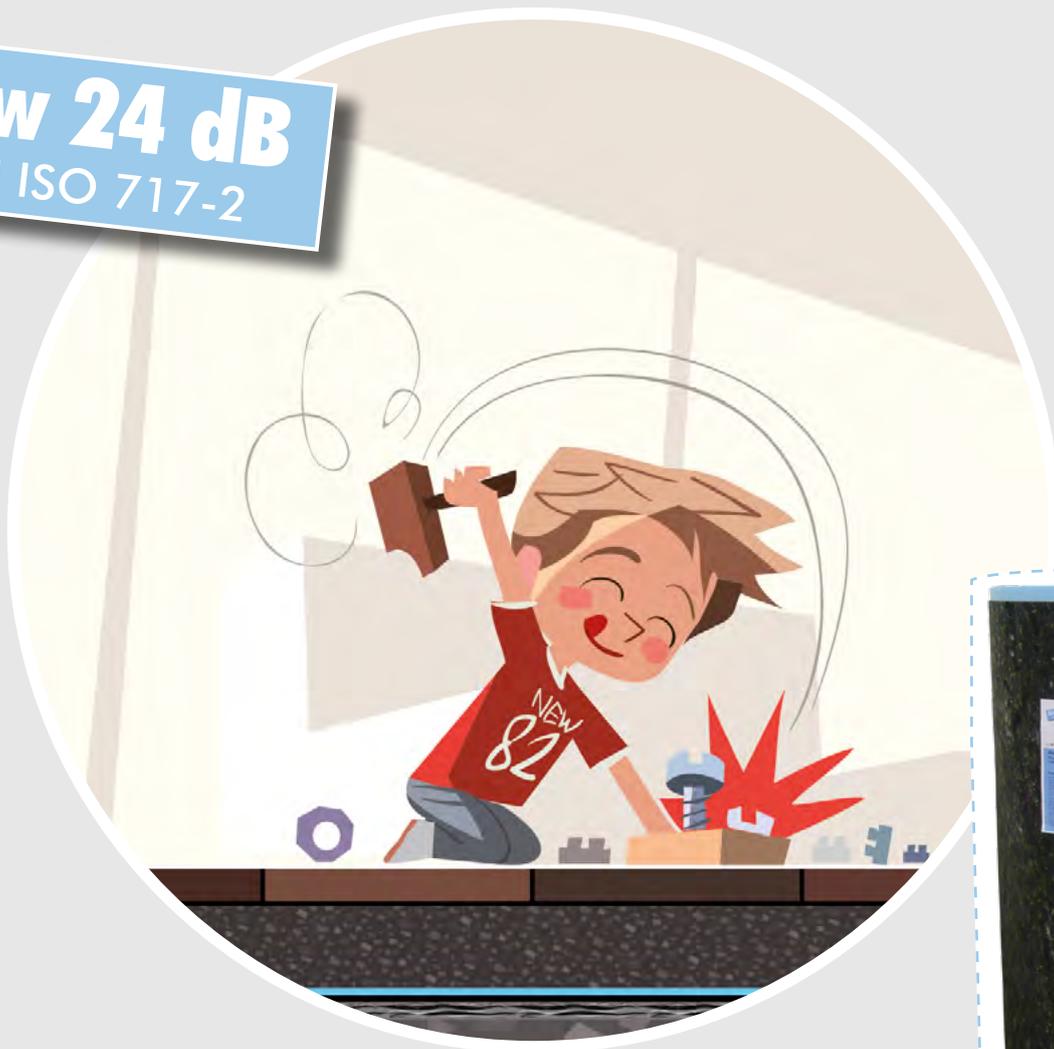
ΔL_w 24 dB

*thin &
performant*

Acoustic floor insulation

against impact and shock noises

ΔL_w 24 dB
EN ISO 717-2



insulit 4+2

Insulit 4+2 is an acoustical underlay intended to limit the transmission of impact and shock noises between different floors. It is put under a floating screed approximately 5 cm thick. Insulit 4+2 is developed and produced by Insulco, the Belgian specialist in acoustical underlay for 25 years. This membrane has recent test reports which were obtained following the tough criteria of the EN ISO 717-2.

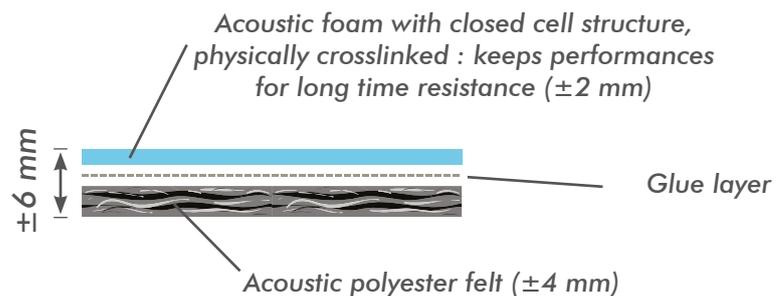
Insulit 4+2 is made up of a layer of approximately 2 mm of closed-cells physically crosslinked polyolefin foam combined with a low dynamic stiffness acoustic felt of more or less 4 mm thick. The benefit of combining a felt with a foam is to be able to cover a much larger frequency range. The felt corrects the low frequencies and the foam corrects the medium and high frequencies. These unique properties provide to the insulit 4+2 a high efficiency with a low thickness

Reports



Insulit 4+2 has recent test reports. The tests were run following the EN ISO 717-2 norm and prove the underlays quality. They are available on request.

Structure



Acoustic performances

ΔL_w 24 dB ^{1*/2*}

$L'_{nT,w}$ 51 dB^{1*} (according to EN 12354-2:2000)
48 dB^{2*} (according to EN 12354-2:2000)

Acoustic improvement (ΔL) :

$\pm 14,1$ dB at 250 Hz	$\pm 24,2$ dB at 500 Hz
$\pm 42,0$ dB at 1600 Hz	$\pm 42,2$ dB at 4000 Hz

1* : Basic floor 350 kg/m²- Lateral walls 150 kg/m² - Receiver room 80 m³

2* : Basic floor 450 kg/m²- Lateral walls 150 kg/m² - Receiver room 80 m³

Simulations done with the CSTC calculation software.

insulit is being exported
world wide



ultra thin ~ ultra efficient

Benefits

- ✓ Light and soft
- ✓ Roll packaging for quick and easy use
- ✓ Economical
- ✓ Tape provided for the overlaps
- ✓ Physically crosslinked polyolefin : lifespan guaranteed
- ✓ Closed-cells
- ✓ Very thin
- ✓ Low dynamic stiffness ~ acoustical performance
- ✓ Recent reports = guarantee of results

Characteristics



Thickness	±6 mm*
Color	Light blue (foam) / Anthracite (felt)
Material	Physically crosslinked polyolefin Acoustic polyester felt
Acoustical reduction	$\Delta L_w = 24 \text{ dB}$ (ISO 717-2:2013)
Acoustical report	Eco Scan/Noise Lab/2015 A-2015_ZO_1633-G472/42226
Dynamic stiffness	$s'_t = 8 \text{ MN/m}^3$ (EN 29052-1)
Weight	±200 g/m ²
Weight/roll	±15 kg
Tear resistance	52 N-57 N (EN 12310-1)
λ Value	0,0356 W/mK at 10°C (foam) 0,0353 W/m K at 10°C (felt)
Compression	±10 % under 2 kPa*
Roll size	50 m x 1,50 m
Packaging	Plastic bag
Overlaps	junction is made with an included kraft tape

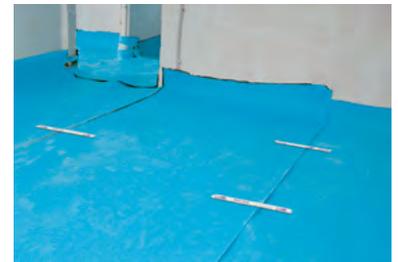
* tolerance 10%



Unroll the insulit 4+2, covering the other side at the junction



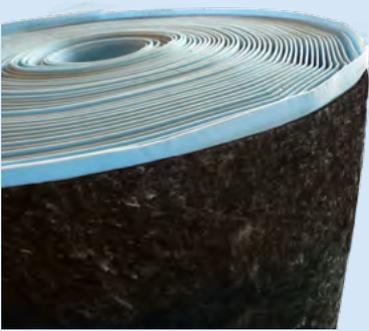
Keep the overlap maintained with the adhesive provided



Place the underlay alongside the wall (±15 cm)



Make a ≥5 cm thick screed up the insulit 4+2



Installation

1 Preparation

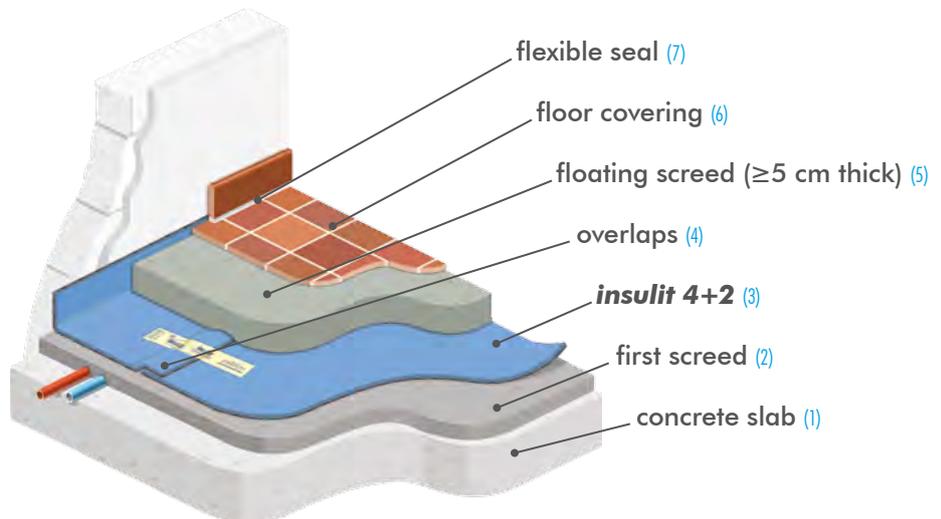
1 Make a first screed (2) in order to cover the tubes and other sheaths if needed. This pre-screed will be executed using a thermal concrete or a similar mix that will bring a thermal insulation between floors. If this pre-screed is impossible, the concrete slab (1) will have to be flattened out and carefully brushed. At the crossing of the tubes, flashings and ogees will be needed. In all cases, the vertical tubes, heating and sanitary, will be carefully isolated from the flooring they cross with the help of insulation sleeves made on the spot from the insulit 4+2 or from the Insulco Stickelfoam self-adhesive foam.

2 Installation of the underlay

2 The insulit 4+2 (3) will have to be unrolled, with the felt side down. The foam should not be, under any circumstance, in direct contact with the floor. An overlap (4) between 5 to 10cm will be executed with the foam and felt on the pre-laid strip. The overlaps will be maintained with the help of the adhesive tape provided (for each running meter, 30 cm of adhesive taped perpendicularly to the overlaps is enough). In the case of a liquid screed, it is mandatory to assure the complete sealing of the underlay's overlap. The insulit 4+2 will then be raised ± 15 cm against the walls.

3 Application of the screed

3 Cover the insulit 4+2 with a screed (5) ≥ 5 cm thick. Once the screed is finished and the floor overlap laid, the surplus of insulit 4+2 will have to be cut. The baseboard will be laid slightly higher than the floor covering (6) to avoid any lateral acoustic transmission. Then, a flexible seal (7) will be placed under the baseboard.



Underfloor heating system

It is possible to use the insulit 4+2 in combination with an underfloor heating system. In this case, we advise that the heating system should be placed above the insulit 4+2. The piping system will be maintained in a soft structured membrane designed to be put in floating installation. The pipes can not be fixed under any circumstances through the insulit 4+2.

Insulit 4+ is CE marked and has the Declaration of Performances that is attached to it.



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Agent / distributor :

Producer :

insulco
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Insulco The specialist against impact noises

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