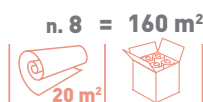




→ IsolDrum Parquet (glued wooden flooring)

Reduced thickness resilient underlay designed for reflected walking sound and impact sound reduction on existing flooring or in case of new buildings. It can be installed by applying glue under wooden or ceramic flooring. IsolDrum Parquet is made of HD expanded polypropylene material which is coated on both sides with special Isolmant screen-printed, black FIBTEC XP1 nonwoven fabric of polypropylene.



isoldrum

REFLECTED WALKING SOUND INSULATION	< 25 sone	class RWS 2
IMPACT SOUND REDUCTION	$\Delta L_w = 16$ dB (with glued wooden flooring)	
COMPRESSIVE STRENGTH	151 kPa (0,2 mm deformation)	class CS 3
COMPRESSIVE CREEP	> 50 kPa (0,5 mm deformation)	class CC 3
DYNAMIC LOAD	> 100000 cycles (at 25 kPa)	class DL 2
THERMAL RESISTANCE	$R_t = 0,054$ m²K/W	
WATER VAPOUR RESISTANCE	$S_d = 30$ m	
THICKNESS	Approx. 2 mm	
SIZE	Rolls of 1 m x 20 m equal to 20 m²	
PACKAGING	Paper boxes of 8 rolls (160 m²)	
OPTIONALS	Isolmant Fascia per giunte (sealing strip): h 7.5 cm x L 20 m Isolmant Fascia perimetrale (perimeter strip): h 3 cm x L 20 m	

Standard CEN/TS 16354



→ Conditions of use

Installation in case of floor refurbishment or new flooring improves the impact sound and reflected walking sound insulation. **GLUE:** the installation of IsolDrum Parquet does not require any special glues. It is recommended to use sealants that are suitable for the type of flooring and for the installation surface. The glues for wooden flooring are suitable for fixing IsolDrum Parquet to the screed.

→ Item specifications

Reduced thickness resilient layer for impact sound reduction and reflected walking sound insulation made of reticulated closed-cell polypropylene foam, coated on both sides with a special screen-printed black FIBTEC XP1 polypropylene non-woven fabric (type IsolDrum Parquet). Thickness 2 mm.

WARNING: This technical data sheet is not a valid specification and, if it consist of multiple pages, be sure to read the full document. This instruction are the best of our current experience but are indicative information. Assuming the liability resulting from the use of this product, it is up to the user to establish whether the product is suitable for the intended use.

isolmant by **TECNASFALTI**

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→ IsolDrum Parquet: how to lay the floor

1) preparing the screed: the surface where IsolDrum Parquet is installed should be load-bearing, flat, adequately even, clean and free from debris and oil. However, IsolDrum Parquet allows installation in a number of limit situations where it would be necessary to carry out other stabilising interventions such as levelling or applying primer. Nevertheless, the tiler will assess the suitability of the surface when laying glue and sheets.

2) laying the first layer of glue: IsolDrum Parquet does not require the use of any special glue. It is recommended to use glues suited to the installation surface. Apply the first layer of glue in proper quantity, using a fine trowel knife (3/4 mm) following the instructions set out by the technical reference standards. To prevent acoustic bridges, it is recommended to use Isolmant Fascia Perimetrale (perimeter strip) which already comes in the package. It should be applied before spreading the glue all around the room perimeter.

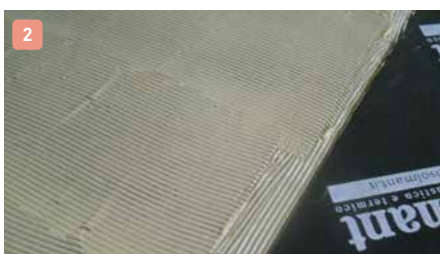
3) laying the sheets: roll out IsolDrum Parquet on the previous layer of glue, taking into consideration the open time of the adhesive. Remove any air bubbles under IsolDrum Parquet sheets so that they adhere perfectly to the surface. To this end, it is recommended to press the sheets using a roller for flexible flooring. During installation, IsolDrum Parquet sheets should be laid close without overlapping in order to ensure a continuous insulation layer and avoid acoustic bridges. In case of ceramic or stone flooring, it is recommended to tape the junction points of the sheets by means of Isolmant Fascia per Giunte (sealing strip). It is also necessary to apply Isolmant Fascia Perimetrale on the vertical walls to disjoint the sheet from the wall. Fascia per Giunte and Fascia Perimetrale are both included into the package. In general, once the preparation is finished 24 hours should be waited before installing the flooring. However, these are only general guidelines and the tiler will decide on the most appropriate timing for the procedure according to the glue used.

4a) installing glued wooden flooring: this flooring can be glued directly onto IsolDrum Parquet by means of the proper glue layer that should be spread following the manufacturer's instructions and in compliance with the sector guidelines. Installation should be carried out under proper temperature and moisture conditions and in compliance with the wooden flooring installation standard. **Bicomponent epoxy-polyurethane glues**, like Kerakoll L34, Chimiver Hercules or equivalent, yield positive results.

4b) installing ceramic tile floor: tiles can be glued straight onto IsolDrum Parquet by means of the proper glue which should be fully spread and in compliance with installation standards. The glue must be spread using the proper trowel knife which should be chosen according to the type and shape of the tile in compliance with the instructions provided by the glue manufacturer and the relevant installation standards. The R&D laboratory of Tecnasfalti achieved the best results by using **class C2 concrete adhesive** (enhanced concrete adhesive, such as Kerakoll H40 or equivalent) or higher class. However, the tiler will assess the adhesive suitability for the substrate and the finish. As regards the sealants for tile joints, **epoxy sealant** such as Mapei Kerapoxy Color, Kerapoxy CQ, Kerakoll Fugabella Epoxy, Litokoll Starlike, or equivalent provided positive results. It is recommended to apply rigid sealants.

5) floating or semi-floating installation: any kind or size of IsolDrum Parquet can be floating or semifloating. Sealants are not applied in the case of floating installation, but in the case of semi-floating, the adhesive could be spread between the screed and IsolDrum Parquet or between IsolDrum Parquet and the wooden flooring. Both installations allow to remove and substitute the flooring without impacting the screed. The semi-floating installation can be also used for ceramic tile flooring by unrolling IsolDrum Parquet sheets on the substrate without glues. The sheets are then laid close and fixed by means of the band. The tiles can then be glued onto the sheets.

For further information or details, please contact the Isolmant Technical Department.



→ IsolDrum Parquet: focus on glues

The R&D laboratory of Tecnasfalti carried out a number of tests to assess shearing or ripping loads on both wooden and tile floorings by means of standard glues which are present in the market. It must be pointed out that currently there are not special standards or instructions concerning the minimum shearing strength for application on the underlays.

Based on experience, it is known that professional flooring can bear a shearing strength higher than 1.5 N/mm². Heavy flooring, like industrial ones, should bear a shearing strength higher than 2 N/mm² as shown in the table. The tests carried out with IsolDrum Parquet clearly highlighted an elastic behaviour of the system up to stress higher than 1 N/mm². A loss of cohesion of the non-woven fabric coating substrate was observed at about 2.5-3.0 N/mm² compared to the core polypropylene. The glues, in particular the lower layer, did not show any shearing modification inside these ranges of applied stress.

Shearing stress per surface unit N/mm ²	Flooring use
< 0,8	very reduced loads
0,8 - 1,5	reduced loads
1,5 - 2,0	medium load
2,0 - 3,5	heavy loads
> 3,5	very heavy loads (industrial)



A) Sample for shear test on glued tiles



B) Samples for shear test on glued wooden flooring and samples for ripping test ("test dolly")



C) Shear test by means of proper instrumentation (Pressure meter - shearing hydraulic meter)

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