

SONIC ROLL

PRODUCT DESCRIPTION

SONIC ROLL is a sound absorption system for floating floors formed by an elastomeric plastomeric bituminous polymer sheet with polyester reinforcement bonded to a resilient layer in 6.5 mm thick polyester fibre faced with a green polypropylene non-woven fabric for a total thickness of 8 mm (before bonding).

USE

SONIC ROLL permits efficacious and reliable floating floors perfectly isolated from the support surface (floor deck and partition walls) to be created easily. The bonding of the bituminous polymer membrane to the polyester fibre absorbs noise and dampens vibration, in this way enabling various types of floor and decks - some of which are listed in the table below - to comply with sound-absorption regulations (DPCM 5.12.97). **SONIC ROLL** has an elastomeric plastomeric bituminous polymer membrane that provides a safety waterproof layer that protects both the floor and the sound-absorption layer.

| Bearing floor cu m' | UNI TR 11175 ratio $L'_{n,w,eq} = 164 - 35 \log(m')$ (dB) | Floor cu m' (kg/m ²) | s' (SONIC ROLL) (MN/m ³) | f ₀ (Hz) | ΔL _w (dB) | K (dB) | L' _{n,w} (dB) |
|---------------------|---|-------------------------------------|--|------------------------|-------------------------|-----------|---------------------------|
| 300 | 77,30 | 100 | 21 | 73,3 | 28,0 | 3,0 | 52,28 |
| 320 | 76,32 | 100 | 21 | 73,3 | 28,0 | 3,0 | 51,30 |
| 340 | 75,40 | 100 | 21 | 73,3 | 28,0 | 3,0 | 50,37 |
| 360 | 74,53 | 100 | 21 | 73,3 | 28,0 | 4,0 | 50,50 |
| 380 | 73,71 | 100 | 21 | 73,3 | 28,0 | 4,0 | 49,68 |
| 400 | 72,93 | 100 | 21 | 73,3 | 28,0 | 4,0 | 48,90 |
| 420 | 72,19 | 100 | 21 | 73,3 | 28,0 | 4,0 | 48,16 |

HOW TO APPLY AND RECOMMENDATIONS FOR LAYING

Correct laying and scrupulous respect of procedure are essential elements for the success of both thermal and acoustic insulation. Make sure that the support surface is level and free of all roughness. Any excessive material that compromises the planarity of the floor must be removed. All technological systems (electric, hydraulic, etc.) must be covered by concrete floors. Compression resistance must always be considered for lightweight bricks in order to avoid the risk of sagging when the floor is laid (due to concentrated loads).

Lay **SONIC PANEL** panels with the fibrous layer (the light colored part) facing down, making sure that they are in perfect alignment. The edges must be made by using a strip of **SONIC BAND** folded into "L" shape and then glued using **SONIC PANEL** bi-adhesive tape. **SONIC BAND** tape must be cut at the corners in order to permit perfect connection between the two strips, placing one over the other, while making sure that there are no exposed parts of the under surface.

Close and seal all points of over lapping using silver-backed **SONIC TAPE**; the silver colour helps installers distinguish the areas that have been sealed from those that have not. The same operation must be repeated at the corners in order to cover and join all points of overlapping between **SONIC PANEL** and **SONIC BAND**.

Once the final floor has been laid, after its ageing has been completed and before the laying of the skirting board, cut away any **SONIC BAND** excess and close the space between the skirting and the floor using an appropriate elastic sealant.

A handy application manual is available for more details on laying.



Rev. 1-19

ROOFING AND WATERPROOFING SYSTEMS
POLYGLASS® Q
MAPEI GROUP

Adds value!

TECHNICAL FEATURES

| TEST METHOD | TECHNICAL FEATURES | UNIT OF MEASURE | VALUES |
|-------------------------|---|--------------------|---------------------------|
| EN 29073-2 | Thickness | mm | 8,0 (prior to bonding) |
| EN 1849-1 | Weight | Kg/m ² | 1,8 |
| EN 12311-1 | Longitudinal tensile strength | N/50 mm | 700 |
| EN 12311-1 | Transversal tensile strength | N/50 mm | 500 |
| EN 12691 | Impact strength | mm | 900 |
| EN 12730 | Static punching resistance | kg | 15 |
| EN 1928 | Water tightness | kPa | ≥100 |
| EN 13501-1 | Reaction to fire | - | NPD |
| UNI EN 29052-1 : 1993 | Apparent dynamic rigidity (S't) | MN/m ³ | 9 |
| UNI EN 29052-1 : 1993 | Dynamic rigidity useful for calculation (S') | MN/m ³ | 21 |
| UNI EN ISO 140-8 : 1999 | Decrease in footstep noise ($\Delta L'_{nw}$) | dB | 28,0 |
| EN 12667 | Thermal resistance (R) | m ² K/W | 0,145 |

DIMENSIONS - PACKAGING - STORAGE

| PRODUCT | THICKNESS mm | DIMENSIONS m | PANELS PER PALLET |
|------------|--------------|--------------|-------------------|
| SONIC ROLL | 8,0 | 10 x 1 | 16 |

Store the product in a dry area out of direct sunlight. Never stack layers on top of one another and always keep the rolls standing up. Contact with solvent and organic liquids can damage the product. Avoid laying whenever temperature are too high or too low, and pay particular attention to avoid puncturing the surface (by wearing shoes with cleats, concreting temporary loads in restricted areas, or dropping sharp objects).

Please contact Polyglass SpA for more information.



Rev. 1-19