Technical Data Sheet

weber.sys 830

Impact sound insulation and de-coupling board

Impact sound insulation and de-coupling board with low construction height

Fields of application

Measures to reduce impact noise are becoming increasingly important in both new constructions and renovation. The innovative floor acoustic insulation system weber.sys 830 reduces the foot impact sounds under all conventional hard coverings in a simple and effective way in order to create a healthy and pleasant living atmosphere.
Thanks to its tension-reducing property, weber.sys 830 can also be used to de-couple critical substrates, for ex. cracks in old tiles or natural stones, mixed substrates, chipboards, young screeds etc.
Convenient on all vibration-free indoor floors and stairs.
Furthermore, for use in damp rooms with moderate water load (walls and floors of domestic bathrooms, kitchens, utility rooms). In this case, the bonding and the closing of joints must be carried out with weber.xerm 844.

Description

weber.sys 830 is an impact sound insulation and de-coupling board.

Composition

Top side sanded polyurethane bonded mat on alkali-resistant contact non-woven fabric

Main features

- for indoors
- for new construction and renovation
- improvement of foot impact insulation up to 14 decibels
- suitable on underfloor heating
- reduces tensions in case of critical substrates
- very low emission of volatile substances
- free of chlorine, PVC, formaldehyde and plasticizer

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- water-repellent
- easy application
- size 100 x 55 cm
- thickness: 4 mm

Technical values

Ready for covering:	after drying of the used adhesive
Improvement of foot impact sound insulation (ISO 140 - 8):	up to 14 decibels
Thermal conductivity:	≤ 0.11 W/mK
Reaction to fire:	class B 2 (DIN 4102)
Weight:	approx. 5.3 kg/m²

Quality control

weber.sys 830 is subject to a regular quality control.

General notes

- Take over existing separation joints and connection joints in the substrate in the boards and in the top covering at the same place.
- The improvement of the impact sound insulation (according to DIN ISO 140 - 8) has been measured in our laboratories and external test institutes. The actual impact sound improvement level always depends on the specific site conditions; if in doubt, carry out acoustic measurement tests on trial areas.
- weber.sys 830 is not allowed to be laid loose on the substrate; always use an adhesive.

Special notes

- weber.sys 830 is suitable for residential buildings with stress loading of max. 2 KN/m².
- For minimizing the punctual loads weber.sys 830 should be covered with tiles > 15 x 15 cm. Their minimum breaking force should be min. 1500 N and their thickness should be min. 8 mm.
- Natural stones should be sufficiently hard, e.g. granite, quartzite.

Substrate preparation

- The substrate must be sufficiently load-bearing, clean, dry and vibration-free.
- If necessary, level out with an appropriate smoothing mortar, for ex. weber.plan 813-25 (1 - 25 mm) in accordance with the required height compensation.
- Remove chalking paints as well as solid lacquer and dispersion paints mechanically.
- Anhydrite (calcium sulphate) flow screeds must be ground with sandpaper (grain size 16), dust-vacuumed and treated with the primer weber.prim 801.
- Wooden surfaces (treated timber planks and OSB boards) must be strongly connected with the substrate; if necessary, fasten them with woodscrews in interval of max. 40 cm. All joints between the beams must be bonded to each other with an appropriate timber glue. Use the bonding primer weber.prim 803 on all wooden substrates.
- Absorbent substrates: use the primer weber.prim 801 or 802.
- Non-absorbent, smooth substrates (for ex. old tiles etc.): use the primer weber.prim 803. Well-bonded old vinyl plates must be degreased or roughened, prior to primer application. Well-bonded old reactive resin coatings must be roughened (up to the "white break") and primed afterwards.
- All walls and upstands (pillars, columns, pipes etc.) within the floor should be separated with a 10-mm insulation foam strip in order to avoid sound transfers; it must reach downwards from the substrate up to the upper edge of the final floor covering.
- The substrate preparation must be adapted to the specific job site conditions.

Working instructions

- The impact sound reducing effect of weber.sys 830 is further optimized by bonding with the 2-comp. reactive and highly flexible adhesive weber.xerm 844.
- Alternatively, a classic bonding with a flexible tile adhesive mortar is possible, too.
- Comb weber.xerm 844 onto the substrate with a notched trowel (notch size 4 x 4 mm). Alternatively, it can also be applied evenly and thickly to the substrate with a lambskin roller.
- Lay the boards into the freshly applied material without delay over the entire surface (yellow side facing upwards) in order to achieve a sufficient adhesion and press them uniformly into the adhesive bed with a smoothing trowel or wooden float.
- Lay the boards weber.sys 830 in half-bandage; as a rule, cross joints are not allowed.
- The boards can easily be cut and fitted with a carpet knife or scissors.
- The board joints can be closed in one step during the installation with weber.xerm 844, using a trowel or smoothing trowel. This operation avoids sound bridges. In this case it is then no longer necessary to mask the joints with masking tape.

- Due to the fast drying of weber.xerm 844 (approx. 4 hours), the subsequent covering works can be started afterwards. In case of classic bonding with a flexible tile adhesive mortar, respect the necessary waiting time till its final setting.
- For a reliable installation of ceramic coverings or natural stones that are not sensitive to discolouration, best practice is to use a flow-grade or a quick-setting flexible cement-based tile adhesive, such as weber.xerm 859 F (quick-setting and trowel-grade), weber.xerm 860 (normal-setting and flow-grade) or 860 F (quick-setting and flow-grade).

Practical information

Colours:
gelb (top side) and black (backside)

Size:
100 x 55 cm = 0.55 m²/board

Thickness:
4 mm

Tools:
Carper knife, scissors, smoothing trowel, notched trowel, wooden float

Storage:
The product can be stored at least 24 months in its original unopened packaging, if kept dry, protected from moisture and direct sunlight.

Consumption

approx. 1.05 m²/m²

Packagings

Type	Sales unit	Number / euro-pallet
Cardboard box	box of 8 boards (= 4.4 m²)	18 boxes

The information in this technical data sheet is based on our current knowledge and experience at the time of printing. However, they do not guarantee in the legal sense.

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