

DATASHEET



KARMA VISCO 400 AND 600

KARMA VISCO 400 AND 600 BOARDS ARE HIGH PERFORMANCE ACOUSTIC FLOOR PANELS FOR CONVERSION PROJECTS WHERE THERE IS A NEED TO PROVIDE A NEW STRUCTURAL DECK WITH ACOUSTIC PROPERTIES OVER TIMBER JOISTS.

The high acoustic performance is created using internal strips of visco elastic adhesive to dampen sound vibrations before they reach the building structure.

A cushioning resilient layer on the underside further reduces impact sound transmission. The product can also be used as a high performance overlay board above an existing deck.

All products are supplied factory bonded.



Karma Visco 400



Karma Visco 600

PRODUCT	TOP LAYER	DAMPING ADHESIVE	SECOND LAYER	CUSHIONING LAYER	THICKNESS	DIMENSIONS
Karma Visco 400	18mm T&G Chipboard	Visco elastic strips	9mm OSB III	8mm Chipfoam	35mm	2400 x 600mm
Karma Visco 600	22mm T&G Chipboard	Visco elastic strips	9mm OSB III	8mm Chipfoam	39mm	2400 x 600mm

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BENEFITS

- Excellent impact and airborne sound performance
- T&G edge profile for ease of installation
- Laid directly on to the joists
- Can be used with most floor finishes

SPANNING CAPABILITY

Karma Visco 400 can span between joists at a maximum of 400mm centres. Karma Visco 600 can span between joists at a maximum of 600mm centres. These centres must not be exceeded and the short edges of the boards should always be supported by a joist.

TYPICAL APPLICATIONS

- Refurbishment projects where a new structural deck is required above joists and a new acoustic ceiling is to be fitted
- Where height restrictions exist but reliable performance is still required

PERFORMANCE REQUIREMENTS IN CONVERSIONS

APPROVED DOCUMENT E REQUIREMENT (ENGLAND AND WALES)	IMPACT SOUND $L_{nT,w}$	AIRBORNE SOUND $D_{nT,w} + C_{tr}$
Conversions	$\leq 64\text{dB}$	$\geq 43\text{dB}$
Section 5 2010 Requirement (Scotland)	IMPACT SOUND $L_{nT,w}$	AIRBORNE SOUND $D_{nT,w}$
Conversions – built post 1919	$\leq 56\text{dB}$	$\geq 56\text{dB}$
Conversions – traditional (pre 1919)	$\leq 58\text{dB}$	$\geq 53\text{dB}$

KARMA VISCO PERFORMANCE

Karma Visco 400 laid on 225mm solid joists with 100mm slab between joists; ceiling of RB1 resilient bar, 1 x 15mm sandbloc and 1 x 19mm plank.
(Site tested by independent UKAS accredited acoustic consultant)

	IMPACT SOUND $L_{nT,w}$	AIRBORNE SOUND $D_{nT,w} (+ C_{tr})$
Karma Visco 400	$\leq 55\text{dB}$	$\geq 50\text{dB}$
Karma Visco 600	TBC	TBC

KARMA VISCO 400 AND 600 INSTALLATION INSTRUCTIONS

DESIGN CONSIDERATIONS

Partitions

Lightweight non loadbearing partitions can be supported on top of Karma Visco 400 and 600 boards. Ensure that screws fixing into the boards do not penetrate more than 15mm or the acoustic performance may be impaired. Where necessary extra noggins should be inserted below the Karma Visco Board to provide adequate support.

Moisture

To prevent swelling or twisting ensure the boards are kept away from water and high humidity. If boards are affected by water they should be replaced.

Expansion Provision

Expansion provision should be calculated at a rate of 2mm per metre run. This may be provided in a gap at perimeter walls but intermediate expansion joints may be needed on long runs of flooring.

Loading

Karma Visco boards have been designed for use in areas with a maximum UDL of 1.5 kN/m² and a maximum concentrated load of 2.0kN in accordance with BS EN 1991-1-1:2002. Please contact the manufacturer for advice if loading is expected to exceed these figures.

Bathrooms and kitchens

Karma Visco 400 and 600 boards have a resilient layer on the underside which is designed to deflect vertically in order to reduce impact sound.

Placing concentrated loads such as baths, shower trays and kitchen units directly on Karma Visco 400 and 600 can cause some unwanted localised deflection. Measures such as using plywood pattresses or timber bearers to spread the load must be evaluated during construction. These are placed on top of Karma Visco 400 and 600 but under the legs or supports of these items. For WCs, bidets, storage heaters or where granite worktops are to be used consideration should be given to supporting these items directly from the subfloor by creating a solid plinth on top of joists and running the Karma Visco boards up to it.

PREPARATION

Storage

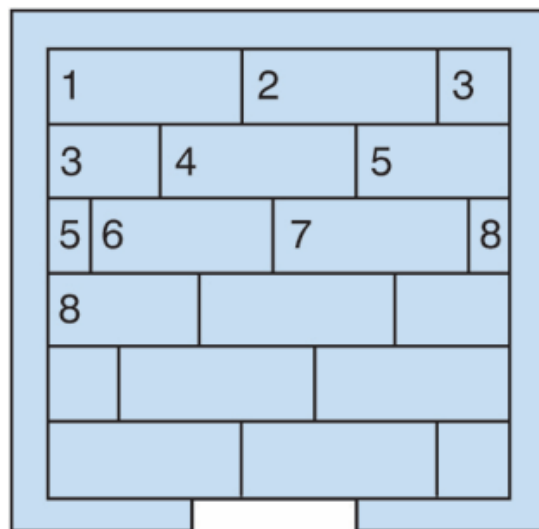
All components should be kept inside, under cover and in dry conditions at all times. Panels should be stacked flat on a level surface. Materials should be located into the environment in which they are to be fixed at least 24 hours prior to fixing.

INSTALLATION PROCEDURE

1. Place Karma isolation tape between Karma Visco overlay boards and perimeter walls during installation. This will reduce flanking sound transmission.
2. Lay Karma Visco overlay boards as shown in the illustration with the grooved edges or cut edges facing the perimeter walls. Use the offcut from the final panel in the first row to commence the next row. Do not start a row with an offcut less than 250mm long. Lay panels in a brick bonded fashion.
3. While laying boards apply a liberal amount of PU D5 adhesive to the grooves of the T&G joint and tightly butt the boards together. Wipe off excess adhesive with a damp cloth. Avoid walking on the boards until the adhesive has dried.

Joist Tolerances

Joist surfaces should be level prior to the start of installation.



FLOOR FINISHES

Thin floor finishes (eg Vinyl, Linoleum etc.)

When using thin floor finishes the Karma Visco overlay boards should be overlaid with 6mm plywood or hardboard to prevent mirroring of the joints.

Tiling

Ceramic floor tiles should be laid on a flexible stress relieving membrane and fixed with flexible bedding compound and grout. When laying a natural stone finish e.g. marble, granite, limestone etc., seek professional advice. Lay in accordance with finish supplier's recommendations.

Carpet

Gripper rods should be glued rather than nailed to the surface of Karma Visco overlay boards to prevent nails penetrating through to the structure below.

Wood Flooring

Wood flooring should not be nailed to Karma Visco overlay boards. Take advice from the wood suppliers before installation on the best method of installation. Ensure this layer is isolated from walls.

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