MAXIDECK

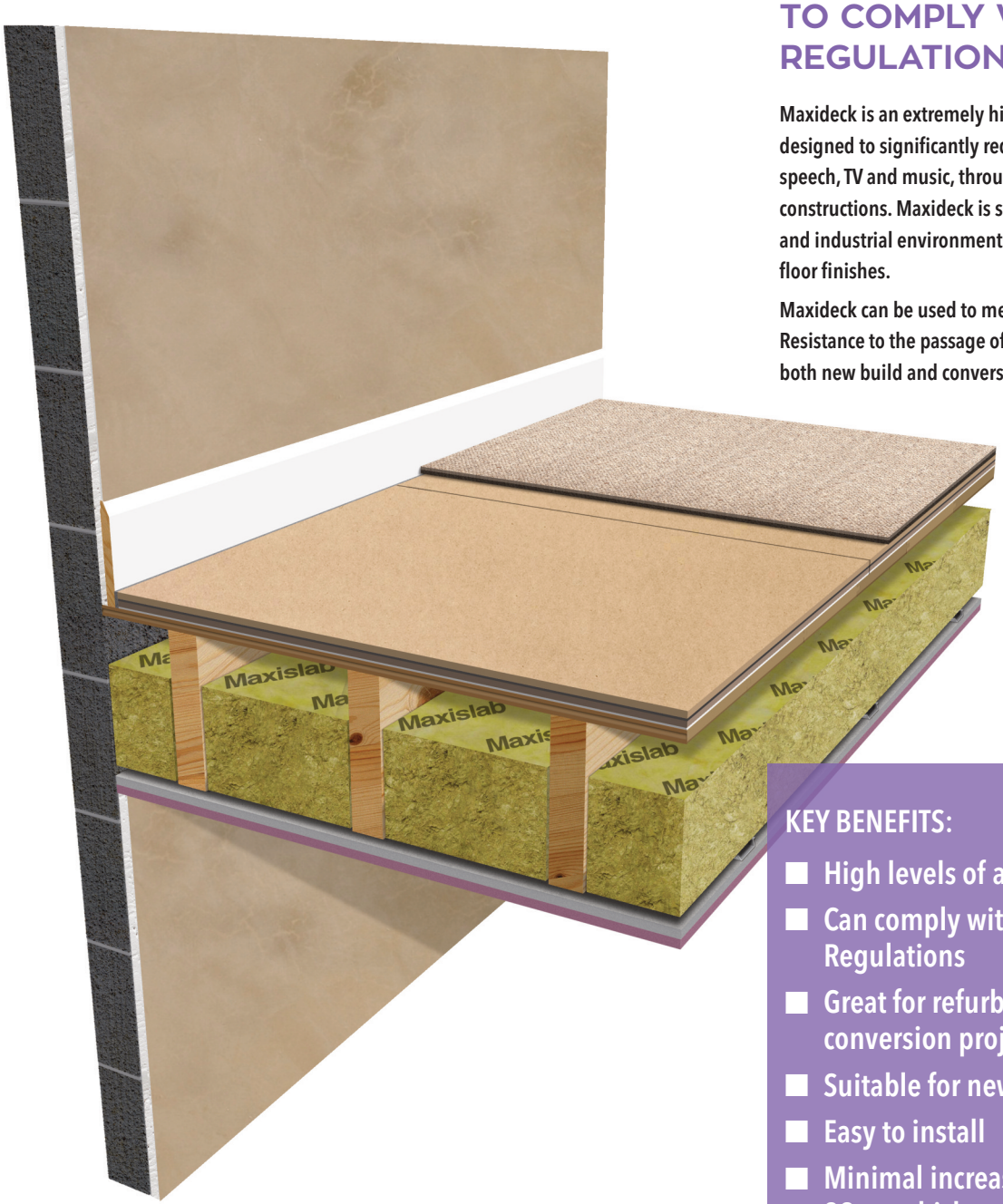
High performance acoustic flooring system

Uniclass	EPIC
L586+L542:N372	E42+E512:Y45

CI/SfB			
	(43)+(45)	R+T	(P2)

A SOUND REDUCTION SYSTEMS PRODUCT

MAXIDECK: A HIGH PERFORMANCE ACOUSTIC FLOORING SOLUTION, DESIGNED TO COMPLY WITH BUILDING REGULATIONS PART E.



Maxideck is an extremely high performance acoustic flooring system designed to significantly reduce airborne noise transmission, such as speech, TV and music, through timber joisted floor / ceiling constructions. Maxideck is suitable for use in domestic, commercial and industrial environments and can be laid under a wide range of floor finishes.

Maxideck can be used to meet Part E of the Building Regulations – Resistance to the passage of sound through floors and ceilings - in both new build and conversion projects.

KEY BENEFITS:

- High levels of airborne sound insulation
- Can comply with Part E of the Building Regulations
- Great for refurbishment and conversion projects
- Suitable for newbuild
- Easy to install
- Minimal increase in floor height - only 28mm thick
- Can be used in kitchens and bathrooms

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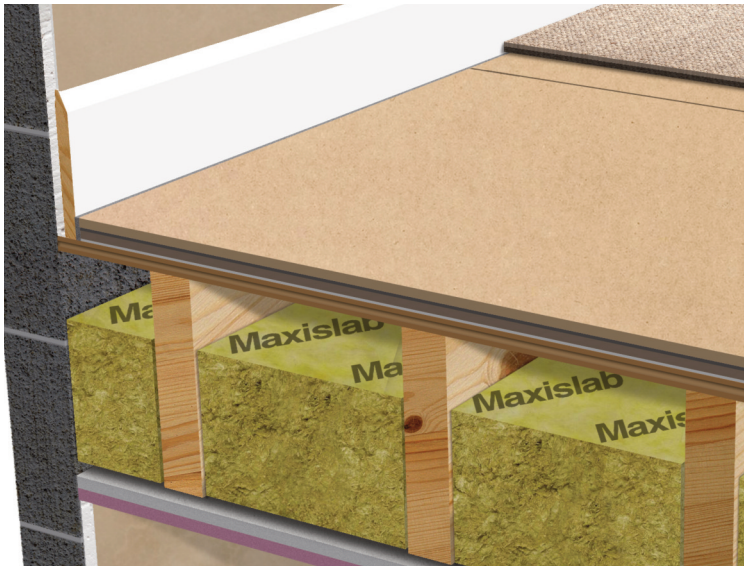
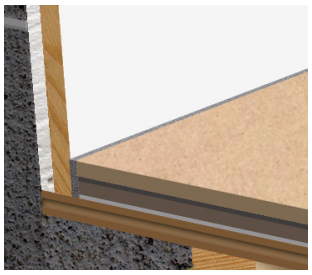
INSTALLATION GUIDANCE

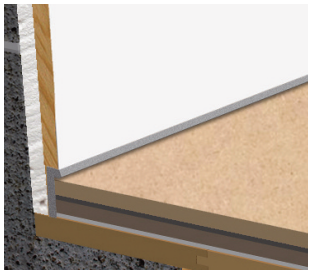


Maxideck installed on a floor

The existing floor surface should be dry and free from debris before installing the Maxideck. If the existing floorboards have gaps between them, they must be filled with a flexible sealant. The Maxideck is fitted in a brick bond pattern, with the felt facing down.


Maxideck installed after skirting boards

Where the Maxideck meets the skirting boards at the perimeter walls, the overlap on the top board of the Maxideck should be removed. In order to isolate the boards from the skirting, and allow for any expansion that might occur, the self adhesive 25mm Maxideck Edging Strip should be applied directly to the trimmed edge of the board. This enables the installer to locate the boards easily, leaving a 10mm expansion gap, which the Soundseal will expand to fill.
Please note that the rate of expansion varies depending on site conditions - a period of 24hrs should be allowed for full expansion.


Maxideck installed before skirting boards

If fitting skirting boards after the Maxideck has been installed, you must use the wider 32mm Maxideck Edging Strip on the boards that meet the perimeter walls. The excess Edging Strip expands over the top of the Maxideck and provides the installer with a resilient base to sit the skirting on.

Once fully installed, the Maxideck can be treated as a standard timber floor finish, however, please refer to manufacturer's instructions before installing any decorative floor finish.

All Maxideck joints are to be glued with SRS Gripfix. Joints are then screw fixed using 20 x 3.5mm, countersinking screws. Two screws are recommended along each long edge of the individual boards, 100mm either side of the joint in the previous row. The SRS Gripfix will achieve full bond strength after 24 hours cure. It is essential that screw fixings do not penetrate the felt layer – no screws longer than 20mm should be used.

Should you need to cut a hole in the Maxideck to accommodate any pipework, you should use the correct sized hole saw to remove the section of Maxideck. Another section of Maxideck, from the hole to the edge of the board, should be then be removed using a hand saw or jigsaw to allow the service/pipe to be located in the board – this piece should be retained. Once the pipe is in place, the retained section can be glued back into position using SRS Gripfix. SRS Acoustic sealant can be used to fill any gap between the pipe and the Maxideck.

ACOUSTIC DATA

Building Regulations Part E - Resistance to the Passage of Sound

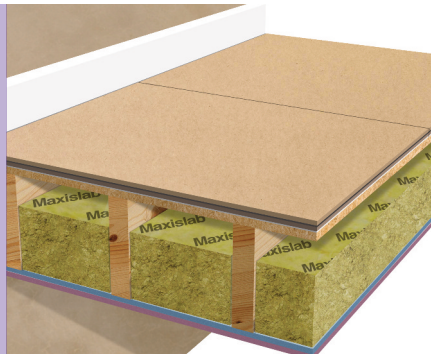
Dwelling-houses and flats - performance standards for separating floors and stairs that have a separating function.	Airborne Sound Insulation $D_{nT,w} + C_{tr}$ dB (minimum values)	Impact Sound Insulation $L'_{nT,w}$ dB (maximum values)
Purpose built dwelling-houses or flats Floors + Stairs	45	62
Dwelling-houses or flats formed by material change of use Floors + Stairs	43	64

Rooms for residential purposes - performance standards for separating floors, and stairs that have a separating function.	Airborne Sound Insulation $D_{nT,w} + C_{tr}$ dB (minimum values)	Impact Sound Insulation $L'_{nT,w}$ dB (maximum values)
Purpose built rooms for residential purposes Floors + Stairs	45	62
Rooms for residential purposes formed by material change of use Floors + Stairs	43	64

ACOUSTIC PERFORMANCE

Acoustic Performance Directly Fixed Ceiling

- 28mm Maxideck
- 18mm T and G Chipboard
- 225x50mm softwood joists @ 400mm centres with 100mm thick Maxi slab infill
- 15mm Soundbloc and 12.5mm Fireline plasterboard ceiling fixed directly to joists

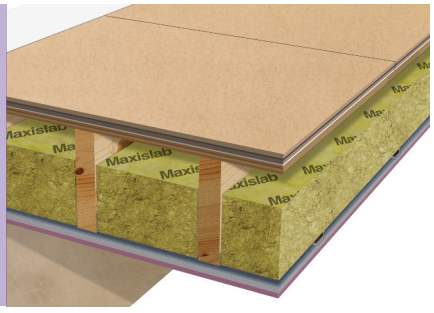


MAXIDECK INSTALLATION	Airborne $D_{nT,w}$	Airborne $D_{nT,w} + C_{tr}$	Impact $L'_{nT,w}$
Above a double boarded ceiling	50dB	44dB	61dB

BS EN ISO 140 Part 4 and rated to BS EN ISO 717 Parts 1&7 test results:
Tests carried out by Soundtesting.co.uk on 13th July 2007:
Airborne test number: 1402-1, Impact test number: 1402-2

Acoustic Performance Resiliently Fixed Ceiling

- 28mm Maxideck
- 18mm T and G Chipboard
- 225x50mm softwood joists @ 400mm centres with 100mm thick Maxi slab infill
- 2 x 12.5mm Fireline plasterboard ceiling fixed to the resilient bar



MAXIDECK INSTALLATION	Airborne $D_{nT,w}$	Airborne $D_{nT,w} + C_{tr}$	Impact $L'_{nT,w}$
Above double boarded ceiling on resilient bars	60dB	52dB	52dB

BS EN ISO 140 Part 4 and rated to BS EN ISO 717 Parts 1&7 test results: Tests carried out by Noise Control Services Ltd on 25th May 2007: Airborne test number: NCS/050705/8a, Impact test number: NCS/05/07/05/8i

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PHYSICAL PROPERTIES AND ACCESSORIES

MAXIDECK:	SIZE	THICKNESS	WEIGHT
	1200 x 600mm	28mm	27Kg/m^2

Storage:
Maxideck must be laid flat and kept dry. Maxideck should only be stored on site if the building has been sealed and is completely dry.

Cutting:
Maxideck is best cut using a circular saw with dust extraction fitted, however, it can also be cut using a handsaw or a jigsaw with a heavy duty blade fitted for small areas.

Sizes and accessories:

MAXIDECK ACCESSORIES	DETAILS
SRS Gripfix	310ml Tube
SRS Acoustic Sealant	900ml Tube
Maxideck Edging Strip (For use if skirting already installed)	25mm x 5.6m
Maxideck Edging Strip (For use if installing skirting on to Maxideck)	32mm x 5.6m

HANDLING

The Maxideck panels are very heavy (19.44kg per 1200 x 600mm board). Please exercise caution when lifting and installing. The HSE can provide information and guidance on the lifting and handling of heavy goods www.hse.gov.uk

NOTE: SRS Ltd advise that for best results Maxideck is installed above a ceiling comprising two layers of plasterboard on resilient bars, with 100mm Maxislab between the joists.. The direct fix result is given as information only, for those people who already have a ceiling in place. If you must install Maxideck above an existing ceiling, it may need upgrading. SRS suggest 2 layers of plasterboard, with a minimum mass per square metre of 20kg/m^2, and 100mm of dense mineral fibre in the cavity, as a minimum requirement

OTHER PRODUCTS IN THE SRS ACOUSTIC FLOORING RANGE:

ACOUSTILAY: The perfect product for sound insulating floors in domestic and commercial environments

ACOUSTILAY TILEMAT: the latest member of the Acoustilay family – specifically designed for installation under ceramic and stone floor tiles.

SUBPRIMO: a high performance acoustic underlay product, specifically designed for use beneath timber floor finishes such as laminate, engineered and solid wood.

ISOLAYTE OS: A versatile resilient layer designed to be used beneath most decorative floor finishes to reduce the transmission of impact sound through the floor.

ISOLAYTE US: A resilient layer designed to be used between the concrete floor and the screed to reduce the transmission of impact sound through the floor.

IMPACTAFOAM: Designed to form a resilient layer reducing impact noise transmission in concrete and timber floors.

GENERAL NOTES

There are a vast number of floor finishes available, and, as such, the installation guidance in this datasheet is given in good faith and to the best of our knowledge. The final decision regarding the compatibility of any floor finish installed onto Maxideck must remain the responsibility of the flooring contractor/installer. If in any doubt, please seek advice from the floor finish manufacturer. Good practice applies in all cases. Prior to installation of Maxideck the floor should be level, clean, and dry. Maxideck should be allowed to acclimatise to site conditions prior to installation.

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Site conditions and installation standards vary. SRS cannot take responsibility for the performance of any installed system of which SRS products are only a part, or that have been installed incorrectly. Prior to installation, it is necessary to identify and eliminate possible flanking paths that may compromise the acoustic performance of any SRS product.

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