REDUC® MICRO 21 - EXISTING TIMBER

Acoustic overlay floor board for use in new build and refurbishment projects

Resistance to the passage of sound
E
APPROVED DOCUMENT

Preparation and Planning

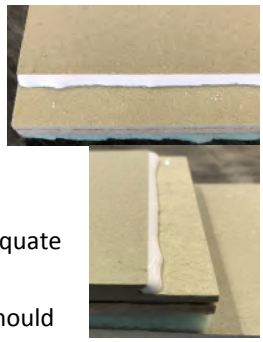
The following guidelines are issued as an aid to installing our products correctly. Individual site conditions may necessitate variances to these standard fitting instructions and we would advise that in such instances you refer back to H&H Acoustic Technologies Ltd or their appointed representatives if ordered through
a stockist or distributer.

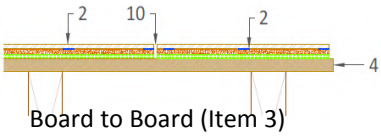
In all instances the following steps should be taken prior to commencing any installation:

1. All REDUC products to be stored in a dry, well ventilated area and allowed to climatize for at least 24 hours in the area to be laid, prior to installation
2. Pre-plan the floor layout to optimize board usage.
3. Wear suitable PPE when cutting any materials
4. Ensure that the existing floor is dry, flat, structurally sound and free from creaks and protruding items such as nails, plaster spills and so forth
5. All skirting boards have been removed and the wall clean, flat and free from dust or loose/missing plaster
6. If REDUC SoundSlab has been fitted that the floor boards have been refitted correctly and securely, free from protruding items and is level

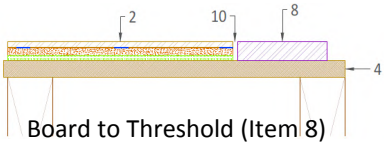
Overlay Micro 21 to a timber sub-floor

1. Fit REDUC Isolation Tape to perimeter of all the areas to be treated (Item 1). This is designed to decouple the flooring from the wall and therefore should not be compressed tightly when boards are fitted.
2. Fit timber strips or battens (Item 8) to door thresholds to allow flooring to sit correctly and allow fixings to thresholds, gripper rods to be fastened correctly without affecting the acoustic board.
3. For optimum acoustic performance the acoustic flooring should not be continuous between rooms.. At junctions between rooms a 5mm gap (Item 10) should be left between boards and filled using a suitable acoustic mastic
4. Starting in corner furthest from door remove the tongue from both edges to allow the acoustic board to seat against the isolation tape without overly compressing the tape. Prepare any further boards in a similar manner that will be in contact with the isolation tape. (Make sure that the acoustic boards do not come in to direct contact with the wall otherwise the risk of flanking transmission issues will increase)
5. Using REDUC Joint Adhesive fully bond all overlap joints by applying enough adhesive to fill the groove on each board. For stronger joints a second bead of adhesive can be run on the flat section of the overlap joint . 1 litre of adhesive covers approx. 20m² to 25m² depending on site conditions when applying a single bead.
6. Continue the process working towards the door and using cut boards where possible to reduce waste.
7. Ensure all boards are tightly fitted together with any gaps filled using a suitable acoustic mastic. Using inadequate amounts of
adhesive will allow the joints to fail and the boards to disengage from each other. An overspill of adhesive should need wiping away from the fixed joints if done correctly
8. Once the floor is laid allow at least 48 hours for the REDUC Joint Adhesive to cure correctly. This may vary depending on temperature and individual site conditions. Do not walk on the REDUC acoustic floor until the REDUC Joint Adhesive is fully cured.
9. Fit skirting boards once REDUC Joint Adhesive has cured ensuring there is a minimum of 2mm clearance from the acoustic floor (should be above the REDUC Isolation Tape).

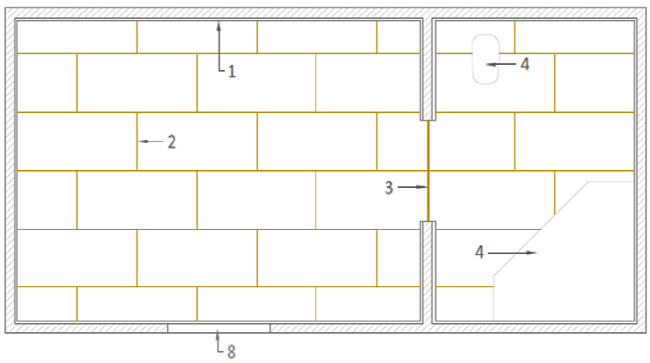




Board to Board (Item 3)

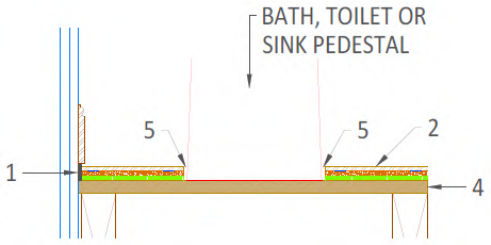


Board to Threshold (Item 8)



Kitchens & Bathrooms

REDUC acoustic flooring needs to be cut to fit around heavy objects that need to be fixed in position with bathroom areas.

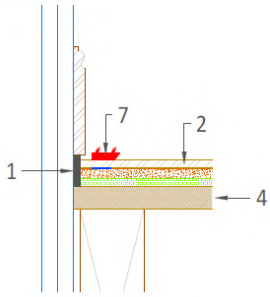


The acoustic floor board (Item 2) is cut to suit the article being installed and fixed directly to the existing sub floor (Item 4). The gap (Item 5) needs to be 2-5mm larger than the item being cut around, ensuring the acoustic board does not come in to contact with this item. The gap (Item 5) is then filled with a suitable acoustic mastic.

Fitting heavy objects direct to the acoustic flooring will result in an uneven floor finish due to the flooring being compressed. Also any fixings that penetrate the acoustic flooring can reduce the effectiveness through direct or flanking transmission.

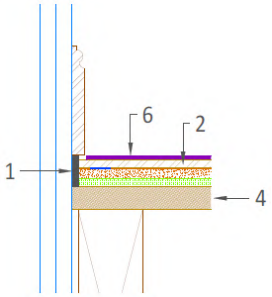
Floor Coverings

If the floor is to be used as a deck for smooth floor finishes then minor sanding of joints may be required. Where a good quality of finish or for certain floor coverings it may be necessary to fix a 6mm layer of floor grade plywood (such as SP101) to the REDUC floor boards using a contact adhesive. Under no circumstances should any mechanical fixings be used.



Carpets - Gripper rods (Item 7) should be fixed in place using a suitable adhesive and not with mechanical fixings of any type.

Vinyls - Vinyl floor coverings (including flexible PVC, rubber, cork, sisal or other similar Amtico products) will need an additional layer of 6mm thick floor grade plywood. This additional layer (Item 6) should be bonded fully to the REDUC acoustic floor board using a
suitable contact adhesive in a broken brick bond pattern. The joints of the ply must overlap the joints of the REDUC acoustic floor boards otherwise witness marks may still appear through the floor covering.



Ceramic Tiles - REDUC Micro 21 is NOT suitable for ceramic floor tiles or any other form of heavy floor covering.

Adhesives - We recommend that the REDUC acoustic floor boards are joined together using REDUC Joint Adhesive. For adhesives to bond other items such as ply, vinyl or other non REDUC items we recommend that you consult the manufacturers requirements for these additional products.

Maintaining Acoustic Integrity

In order to maintain the REDUC acoustic floor boards integrity DO NOT:

- Nail or screw any item(s) direct to the floor
- Build partition walls off the acoustic floor
- Cut away the acoustic floor other than as directed above
- Install down lighters in a ceiling directly below an acoustic floor installation
- Have inadequete ventilation within a room as the acoustic floor board may distort and warp
- Nail or screw water damaged boards back in to place, these need to be replaced with new acoustic floor boards

If in any doubt contact your REDUC stockist or H&H Acoustic Technologies Ltd

REDUC® acoustic flooring can be found on the following resource websites as well as our own website:

For further information and assistance please contact James Hendley at H&H Acoustic Technologies Ltd, 23 Princewood Road, Earlstree Industrial Estate, Corby, Northamptonshire NN17 4AP

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