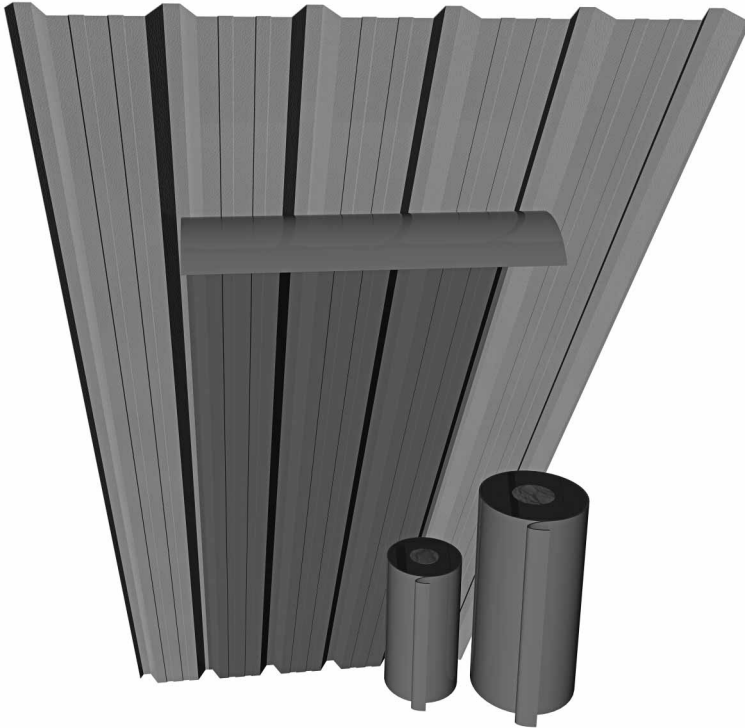


Quietroof System

Installation instructions



ACOUSTIC IMPROVEMENT SYSTEM FOR METAL ROOFING

- New Build
- Refurbishment

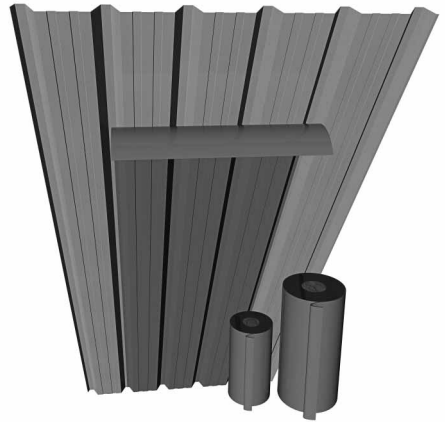


PRODUCT DATA

Roll sizes	164mm wide x 50m long
typically:	246mm wide x 50m long
Thickness:	1.0mm
Adhesive :	Acrylic P.S
Flexibility:	to 5°C
Max. temperature tolerance:	up to 190°C for short exposures

DESCRIPTION

- ❑ Isocheck Quietroof is a self-adhesive acoustic absorber designed to significantly reduce rainfall noise on metal roof constructions and offer broadband sound absorption inside rooms.
- ❑ Quietroof can be fitted to all types of roof cladding profiles in new build projects or refurbishment projects which are being fitted with a new metal clad roof.



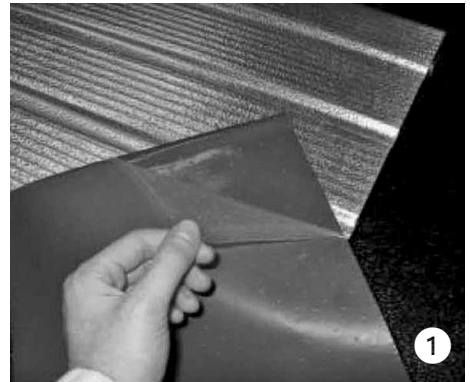
- ❑ Quietroof is lightweight. Applying the 1mm thick, 246mm wide roll to a typical 400mm wide aluminium cladding panel will increase the overall weight by only 30%.
- ❑ Quietroof is easy to install and can be factory fitted or installed on-site with minimal tools.

PREPARATION

- ❑ Ensure the surface of the metal roofing panel is clean, dry and free from contamination.
- ❑ For dusty surfaces, wipe all of the surface with a dry clean lint-free cloth until surface is clean.
- ❑ On surfaces with some residue (such as over-spray of a coating), remove all residue with an abrasive material such as wire wool and then any dust (see above).
- ❑ Oil and grease on the surface will affect the bond between the metal and the Quietroof. Remove oil and grease with a small amount of relevant organic solvent (for example white spirit) on a dry lint-free cloth.
- ❑ Ensure the surface of the metal is completely dry before applying the Quietroof.

INSTALLATION

- ❑ Unroll an amount of the Quietroof.
- ❑ Remove the protective film (figure 1).
This may be done partially to control the contact if a large area is to be covered.
- ❑ For uneven surfaces, heating with a heat gun (or similar) at this stage will greatly improve the contact and the final bond.
- ❑ Present the area of the exposed adhesive of the Quietroof to the panel and press firmly (figure 2).
- ❑ Alternatively use a roller to press the Quietroof to the metal sheet (figure 3).
Note: *the metal panel must be clean and dry before beginning the adhesion process.*
- ❑ Adequate pressure must be applied to make the Quietroof stick to the substrate. Moderate hand pressure applied to all the sheet is usually enough to give a good bond, but a hand roller should be used to improve adhesion even further. This is typically adequate for smooth substrates. For uneven surfaces such as embossed aluminium a more intimate adhesive/substrate contact can be achieved by warming the panel with a heat gun immediately prior to application. In these instances it is recommended that pressure should be applied with a soft rubber or dense foam roller to press the sheet into the surface pattern for maximum contact.
- ❑ Ensure the whole sheet is stuck, and pay particular attention to the edges. If the backing liner is still partially on remove this as you progress.



The key aspect is that the adhesive must come into contact with the substrate under pressure for a bond to form.

INSTALLATION

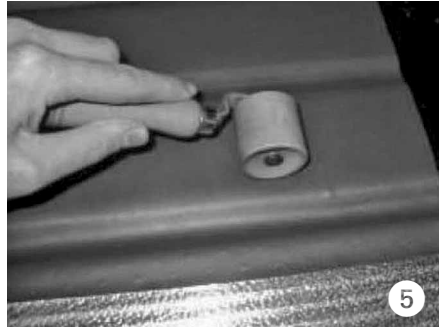
- ❑ Work along the material making sure there is no trapped air until you reach the opposite edge (figure 4).
- ❑ Press into any ridges or dips. Use a roller (soft roller for irregular surfaces) to consolidate the bond (figure 5).

TEMPERATURE

- ❑ Isocheck Quietroof is flexible over a wide temperature range down to about 5°C. Irregular surfaces should be warmed to maximise the contact and bond. The Quietroof should be moderately warm to maintain flexibility during application. This will require only the normal factory operating temperatures of above 16°C to be observed.

BOND STRENGTH AND TIME

- ❑ On most substrates, the bond strength will increase with time and will be significantly higher after 24 hours. Quietroof is designed for use on rigid panels to reduce vibration. If it is to be used on plasticised polymer sheets, please contact us to discuss compatibility.
- ❑ Relocation of the Quietroof is particularly difficult once stuck, especially when pressure has been applied.
- ❑ Microperforated versions of Isocheck Quietroof are available on request, and with this modification the likelihood of air trapping is reduced when very large sheets are being applied to substrates.



REMOVAL

- ❑ Isocheck Quietroof can be removed from panels with a scraper whilst being heated with a hot air gun.

PROTECTION

- ❑ Upon completion ensure the Isocheck Quietroof is protected from any mechanical damage where appropriate.

HANDLING

- ❑ Please observe proper lifting methods and if transporting around site, by hand.

If in doubt on any area, please call Isomass prior to commencement of work.

Every effort has been taken in the preparation of this sheet to ensure the accuracy of representations contained herein. Recommendations as to the use of materials, construction details and methods of installation are given in good faith and relate to typical situations. However, every site has different characteristics and reliance should not be placed upon the foregoing recommendations. Advice can be given as to specific applications of the products, upon request to isomass building products.



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