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Acoustimass® and Soundstop 30 dB

Acoustic barriers which reduce noise transfer in ceiling and floor plenums.

ROCKWOOL Rockfon®

CREATE AND PROTECT®

Acoustimass® and Soundstop 30 dB

Acoustic barriers which reduce noise transfer in ceiling and floor plenums.

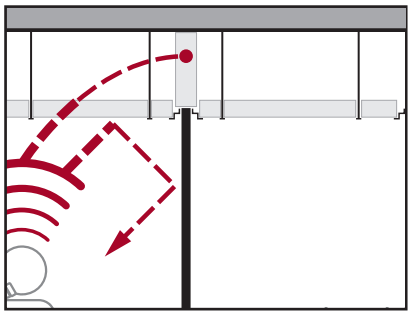
In many commercial buildings, such as cellular offices and meeting rooms, modular partition walls generally do not extend the full height of the room to the structural soffit. In some cases the ceiling alone is not sufficient to control and insulate noise from being transmitted between rooms, particularly if it is integrated with services, and therefore the use of sound barriers such as Acoustimass and Soundstop 30 dB is recommended.

This problem can also occur with raised access floors. Acoustimass and Soundstop 30 dB, can be quickly and easily installed above and below modular partitions, considerably reducing the transmission of noise and enhancing the sound insulation.

Description:
- Acoustimass: stone wool panel (80mm thick), bonded on both sides with an aluminium foil membrane.
- Soundstop 30 dB: stone wool panel (30mm thick), bonded on one side with an aluminium foil membrane.

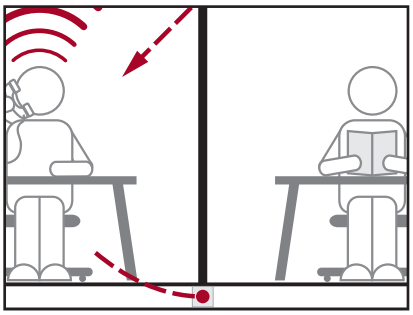
Installation:
Acoustimass and Soundstop 30 dB can be installed above and below modular partition walls which do not extend to full height.

Above wall



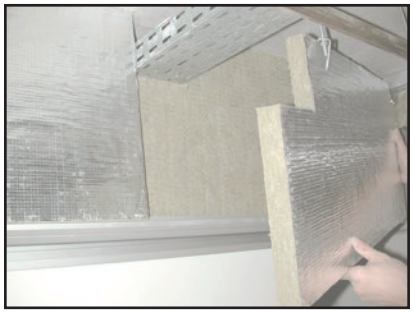
Barrier installed between the partition head and the structural soffit.

Below wall



Barrier installed between the floor slab and underside of the raised access floor.

***Acoustimass** installed as a single 80mm thick layer*



***Soundstop 30 dB** installed in two 30mm thick layers*

All joints must be sealed with aluminium adhesive tape available from ROCKFON.

ASSORTMENT

Products	Sizes (mm)	Weight (kg/m²)
Acoustimass	1200 x 600 x 80	6.4
	1200 x 1000 x 80	6.4
Soundstop 30 dB	1200 x 600 x 30	6.6

Dimensions given correspond exactly to the size of the finished products.

Acoustimass® and Soundstop 30 dB

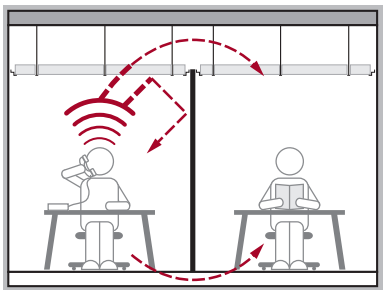
SOUND INSULATION

The sound reduction index of Acoustimass has been measured in a certified laboratory and can provide an R_w ($C;C_{tr}$) = 19 (-1;-3) dB. The sound reduction index has been measured in accordance with [ISO 140-3].
The sound reduction index of Soundstop 30 dB has been measured in a certified laboratory and can provide an R_w ($C;C_{tr}$) = 30 (-2;-6) dB. The sound reduction index has been measured in accordance with [ISO 140-3].

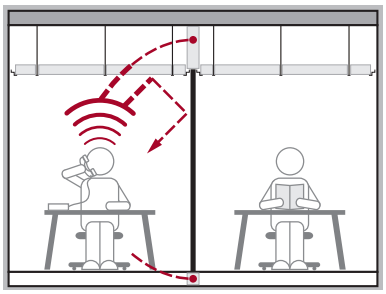
The sound insulation has been measured in accordance with ISO 108482.
The overall sound insulation of a building will depend on several factors, such as wall and ceiling solutions, as well as the quality of the joints between materials.

Produits	$D_{n,f,w}$ ($C;C_{tr}$) dB	$D_{n,f,w}$ ($C;C_{tr}$) with barrier Acoustimass dB	$D_{n,f,w}$ ($C;C_{tr}$) with barrier Soundstop 30 dB dB
Alaska (min. 20mm)	27 (-1;-4)	42 (-2;-6)	47 (-4;-11)
Alaska dB 35	35 (-2;-8)	47 (-2;-9)	50 (-7;-16)
Alaska dB 40	40 (-2;-6)	52 (-2;-8)	55 (-5;-13)
Sonar	27 (-1;-4)	42 (-2;-6)	47 (-4;-11)
Sonar dB 40	40 (-2;-6)	52 (-2;-8)	55 (-5;-13)
Sonar dB 44	44 (-1;-7)	54 (-2;-9)	56 (-6;-15)

Without barrier



With barrier



FIRE PERFORMANCE

General: ROCKFON ceiling tiles have a core of stone wool. Stone wool is non-combustible with a melting point of more than 1000°C.

Reaction to fire: Class A1 in accordance with EN 13501-1.

Fire protection: The fire resistant properties of stone wool ensure ROCKFON ceiling tiles provide fire protection in construction. The fire protection properties of ROCKFON ceilings have been tested and classified in accordance with European norm EN 13501-2 and/or national norms depending on requirements in national building codes.

HUMIDITY RESISTANCE AND DIMENSIONAL STABILITY

ROCKFON ceiling tiles are dimensionally stable even at humidity levels of up to 100% RH and can be installed at all temperatures ranging from 0°C to 40°C.
No acclimatisation is necessary.

HYGIENE

Stone wool has no nutritional value and therefore it provides no sustenance to harmful micro-organisms.

ENVIRONMENT

A representative selection of ROCKFON products have been awarded the Indoor Climate Label and the Finnish Indoor Climate Label (M1).
Acoustimass™ and Soundstop 30 dB are recyclable.

We believe our acoustic stone wool and metal solutions for ceilings and walls are a fast and simple way to create beautiful, comfortable and safe spaces.

Easy to install and durable, they protect people from noise and the spread of fire. They are our way of making a constructive contribution towards a sustainable future.

Create and Protect is what drives us. It means putting people first, sharing success and maintaining trust.

It's our rock-solid promise to you. At ROCKFON, Create and Protect is what we do - and it's inspired by you.

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