PAROC Resono ao

PAROC Resono ao is a sound-absorbing insulation slab (lambda 0,034 W/mK) with perforated aluminum covering. The product is designed for industrial and commercial environments. PAROC Resono ao is an ideal product for e.g. ice halls where both acoustic performance and radiant heat and light reflecting surface are required.



The perforated aluminum facing allows sound to pass through into the stone wool insulation core, ensuring effective noise reduction in space. The aluminum surface also provides a clean, good looking appearance. Additionally, the aluminum reflects radiant heat and light, which is beneficial in large spaces such as ice rinks and sports other facilities.

Note: The perforated aluminum covering can have an effect on the overall moisture performance of the structure. The designer of the space must ensure proper moisture control and plan the structure's hygrothermal performance accordingly.

Product is easy to cut and install with standard tools. It shall be protected from mechanical impact.

PAROC Resono products with thicknesses of 30-50 mm are certified with the M1 Indoor Air Classification.

Product Data Sheet **2026-11-06**

Dimensions (mm)

Width x Length	Thickness
undefined	undefined

Package Type

Plastic packs on pallet

Please contact sales for product dimensions, availability, and delivery information.

Product characteristics according to EN 13162

Designation Code	MW-EN13162-T5-DS(70,-)-WS-WL(P)-AP0,45-AW0,90
DoP Number	10351
Thickness Tolerance, T	T5
Reaction to Fire, Euroclass	A1
Thermal Conductivity, λ_D	0.034 W/mK
Water Absorption, Short Term, W_p	≤ 1 kg/m²
Water Absorption, Long Term, W_{lp}	≤ 3 kg/m²
Thermal Resistance, R	See table below
Dimensional Stability at Specified Temperature, DS(70,-)	≤ 1 %
Sound Absorption, AP, AW	See table below

	AP						
d [mm]	**125 Hz**	**250 Hz**	**500 Hz**	**1000 Hz**	**2000 Hz**	**4000 Hz**	**AW**
50	0.45	0.80	0.90	0.85	0.90	0.80	0.90

Fire Properties

PAROC Stonewool products are capable of withstanding high temperatures. The binder starts to evaporate when its temperature exceeds approximately 200°C while the fire protecting properties remain unchanged. Stone wool has a high melting point of over 1000°C (internal test method).

Thermal Properties

Thermal Resistance $R_D = d/\lambda_D$

$\lambda_D = 0.034$ W/mK

Moisture Properties

PAROC Stonewool stays dry even in high humidity (RH 98%). Diffusion-open stone wool does not absorp or store water and it allows structural moisture bound to other materials to dry through the insulation layer (VTT-S-05337-17). PAROC Stonewool insulation is made of inorganic stone, and it does not provide nutrients to mold.

Environmental Properties

The European Certification Board for Mineral Wool products (EUCEB) trademark on our products confirms that PAROC Stonewool fibre fulfils the bio solubility requirements of EU directive No. 1272/2008. The German RAL quality mark confirms that the bio solubility and safety requirements are met according to the German technical regulation TRGS905.

PAROC Stonewool is made of stone. The volume of the product is ~98% air and only ~2% fiberized stone. The excellent properties of the product are based on the properties of the raw materials. PAROC Stonewool maintains its insulating ability and dimensions throughout the reference service life of the the building, which is considered to be minimum 50 years.

Certificates and Approvals

EC Certificate of Conformity	0809-CPR-1015

Storage and Installation

See PAROC Stonewool storage and handling guide on our website:

https://www.paroc.com/en/documents/uploads/stone-wool-handling-and-storing-instruction

Stone wool is easy to cut with a suitable wool knife. The boards with covering are cut from the covered side with a fine-edged knife. The insulation slabs are attached to the structure according to the designer's instructions. The most common fixing methods are the installation of insulation between the frame studs without fasteners and mechanical fixing to the substructure by screwing or gluing. Insulation slabs should always be installed tightly against frame studs, surrounding construction parts and other insulation boards. The seams of overlapping insulation layers should be overlapped.

Technical information contained herein is furnished without charge or obligation and is given and accepted at recipient's sole risk. Because conditions of use may vary and are beyond our control, Paroc makes no representation about, and is not responsible or liable for the accuracy or reliability of data associated with particular uses of any product described herein. Paroc reserves the right to modify this document without prior notice. PAROC is a registered trademark of Paroc Group Oy. This data sheet is valid in following countries: international use (general information).