



# ROCKWOOL Safe'n'Silent™ Pro

## General Product Information

ROCKWOOL stone wool products are made of basalt, a volcanic stone.

ROCKWOOL stone wool products are non-combustible with a melting point of approximately 1000°C. They are particularly suitable for thermal insulation, fire protection and sound reduction/absorption.

ROCKWOOL stone wool is inorganic and contains no nutritious substance. Therefore it will not be attacked by microorganisms. Stone wool will not rot and does not attract vermin.

No CFCs, HFCs, HCFCs or asbestos are used in the manufacture of ROCKWOOL stone wool products.



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# Safe'n'Silent™ Pro

## Recommended applications

ROCKWOOL Safe'n'Silent Pro is designed and manufactured to achieve excellent acoustic insulation performance in all types of drywall partition configurations. It is recommended to be used for drywall partition applications in hospitals, cinemas, schools, offices, residential and industrial buildings.

Safe'n'Silent Pro meets the requirements of Noise Criteria (NC) specifications developed by the ROCKWOOL company. NC comprehensively measures the noise levels of a room and with the use of NC ratings, recommends the desired acoustic comfort level of a room/space.

## Facings

Optional facing with one or two sided glass tissue is available upon request for perforated wall panel.

For more information, please contact your local representatives.

## Technical Parameters

Product Name	Safe'n'Silent Pro330	Safe'n'Silent Pro350	Safe'n'Silent Pro370	Standards
Density (kg/m3)	40	60	80	EN 1602
Noise Absorption Co-efficient at 50mm (NRC)	0.90	1.00	1.00	EN ISO 354 / ASTM C 423-01
Fire Performance	Non-combustible / A1 Fire Classification	Non-combustible / A1 Fire Classification	Non-combustible / A1 Fire Classification	EN13501-1
Melting Point	More than 1000°C	More than 1000°C	More than 1000°C	ASTM E794
*Thermal Conductivity 20°C λ Value (W/mK)	0.036	0.035	0.034	ASTM C518
R-value at 50mm thickness (m²K/W) Water Absorption (partial immersion)	1.389 1.0kg/m²	1.429 0.5kg/m²	1.471 0.5kg/m²	EN1609.97
Water Vapor Absorption	Less than 0.04 Vol %	Less than 0.04 Vol %	Less than 0.04 Vol %	ASTM C1104/C1104M
Dimension (Length x Width)	1200mm x 600mm	1200mm x 600mm	1200mm x 600mm	EN822
Thickness	50, 60, 75, 100 mm	50, 60, 75, 100 mm	50, 60, 75, 100 mm	EN 822
Applications	Recommended for drywall partition and ceiling applications where some acoustic performance are required. Such as office & commercial environment	Recommended for most drywall partition & ceiling application with more acoustic performance need	Recommended for high acoustic performance & higher fire resistance applications	

\* Thermal conductivity values are based on testing conducted in external accredited laboratory in accordance to ASTM C518 : 1991. Test reports are available upon request. For design, it is recommended to use a safety factor of 20% as design value.



## Packaging and storage

ROCKWOOL Safe'n'Silent Pro is shrink-wrapped in polyethylene sheets for ease of handling, transportation, storage and identification.

Products should be stored indoors or under waterproof covering.

■ Distribution by



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# Unique Features and Benefits

ROCKWOOL Safe'n'Silent solution is made up of galvanized steel stud frames lined with gypsum, cement or calcium silicate boards on each sides of the frames and the Safe'n'Silent Pro acoustic insulation inside the cavity of the wall system; giving an excellent overall noise absorption performance.

Safe'n'Silent Pro is a nature-based insulation made of volcanic stone, a safe and sustainable material that continues to perform and lasts throughout the lifetime of the building. It is a product that harnesses the power from the earth's volcano to spin wool out of stone into superior quality stone wool with a unique range of benefits.

## Fire protection

Few insulation can take the heat like we do – with the ability to withstand temperatures of over 1000°C without melting according to DIN 4102-17. Safe'n'Silent Pro is non-combustible and achieves the highest European fire classification, A1, according to EN13501-1.

This means that it can effectively impede the spread of fire and provides the critical extra minutes for occupants to escape from a room or building. With its fire retardant properties, Safe'n'Silent Pro also does not contribute to fire load within the building and complies with ASTM E84-10 to achieve Flame Spread '0' and Smoke Development '5' that surpass NFPA Class A requirement.

## Fast and easy installation

Safe'n'Silent Pro is fast and easy to install, helping to reduce the time taken and labour needed for installation work, hence increasing overall speed of construction.

**Working with Safe'n'Silent Pro is easy and can be done in 3 simple steps:**



It is also simple to cut Safe'n'Silent Pro to size with a serrated knife, for a fast and easy installation between studs, around electrical boxes, pipes, wiring, ductwork and even between studs and joists of non-standard widths.



### Water repellency

Safe'n'Silent Pro is both water repellent and moisture resistant (tested under EN1609). The product repels water even when exposed to temporary splashing of rain water at construction site and still able to maintain its shape over time; thereby delivering maximum noise and fire protection.

Moisture and nutrients are necessary conditions for fungal growth. Since more than 95% of this product is made up of inorganic fibres, there is little nutrient source to allow fungal growth. Hence, it does not cause corrosion of the metal studs nor promote fungi growth within the wall cavity.

### Sag free & tight fit

The very nature of stone wool makes Safe'n'Silent Pro a wise long term investment that works continuously without requiring any maintenance. The higher density material provides superior sag resistance and fit. It can be easily cut and trimmed for the best possible fit into the partition wall cavity, assuring there will be no gaps that may compromise the performance of the system. Safe'n'Silent Pro keeps its shape over time without sagging or slumping in the wall cavity. All these ensure a partition wall system that protects its occupants against noise and fire for the lifetime of the building.



Conventional insulation



Safe'n'Silent Pro