

**ICEROCK**

30 years of optimal HVAC solutions



## THE DUCT INSULATION OF CHOICE FOR CONTRACTORS, SPECIFIERS AND THEIR CLIENTS.

NOW RESPONSIBLY SOURCED WITH ISO 14001 CERTIFICATION FOR BOTH MANUFACTURE AND RAW MATERIAL EXTRACTION

Icerock, in the form of Ductwrap and Ductslab is a truly attractive option for HVAC applications, with commercial and technical advantages. The quality of this product is highly regarded in the HVAC insulation market. Manufacturer Steinull has agreed that Icerock products are offered exclusively in the UK only by Paroc.

The ISO 9001 certified factory is situated on the northern coast of Iceland, on the very edge of the Arctic Circle, and commenced production in 1985. The raw material is mainly sourced from naturally occurring local basalt rock and sand. The fibre itself is bio-soluble, yet with a softening temperature over 1000°C.

The unique geology of the manufacturer's location means that a high proportion of the sourced material is renewed by natural processes, leaving no permanent scars on the earth's surface. Not only are the raw materials obtained from renewable resources, but the electrical energy used in the melting furnace and curing oven is derived from natural sources – hydroelectric and geothermal power, neither of which emits CO<sub>2</sub> during their generation.

**IMPORTANTLY FOR BREEAM ASSESSMENTS, ICEROCK DUCTWRAP AND DUCTSLAB ARE GREEN GUIDE RATED A+ AND ARE RESPONSIBLY SOURCED.**

Icerock products are of course also CE marked and conform to the European Union's Construction Products Directive (Declarations of Performance found at [www.paroc.co.uk](http://www.paroc.co.uk))

- Green Guide rating A+
- Responsibly Sourced
- Low thermal conductivity for energy efficiency
- High fire resistance, non-combustible Euroclass A1
- Acoustic benefits
- CE Marked
- Marine approved
- London Underground & Crossrail approved

Icerock products are characterised by consistent high quality, low shot levels, low thermal conductivity, excellent resilience, low dust levels, and significantly improved handling characteristics. They allow ductwork to be insulated to a very high standard, resulting in excellent thermal performance and appearance.

Icerock Ductwrap additionally carries Marine Equipment Directive approval for non-combustibility, low flame spread, and lack of smoke or toxic hazard. Both Ductwrap and Ductslab hold similar MOD approvals permitting installation in military vessels.

Icerock Ductwrap carries London Underground (LUL) Registration No. 2430 and Icerock Ductslab LUL Registration No. 2431.

You can use and handle Icerock and Paroc stone wool products safely without health hazards. To ensure product safety we produce only high bio-soluble stone wool fibre, which cannot be classified as carcinogenic to humans. Some but not all people may experience itching from handling stone wool fibres. We recommend wearing loose fitting clothing and gloves during the installation of mineral wool. As with all dusts, stone wool dust release should be reasonably controlled.

Icerock Ductwrap and Ductslab are available in the UK from any of Paroc Ltd's Distribution Partner companies, found at [www.paroc.co.uk/contact-us/dealers-and-contractors](http://www.paroc.co.uk/contact-us/dealers-and-contractors).

Contact one of these companies today to find out just how commercially attractive an option these products can be, compared to other duct insulation materials.



## ICEROCK DUCTWRAP - TECHNICAL PROPERTIES

### SHORT DESCRIPTION

Icerock Ductwrap consists of high quality mineral fibre rolls, faced with reinforced aluminium foil.

### APPLICATION

Thermal and acoustic insulation for air conditioning, warm air and extract ducts, used in the internal and external environment, within plant rooms and boiler houses. Also used for insulation of water storage and expansion tanks. Icerock Ductwrap is also used as an infill material in the manufacture of Fabric Covered Flexible Insulation Jackets which are used to insulate valves, flanges & other items of equipment of HVAC & Industrial plant.

### NOMINAL DENSITY

40 - 45 kg/m<sup>3</sup>

The limiting temperature of the fibre is more than +1000°C but the rolls should not be used where temperatures are continuously above +250°C.



### DIMENSIONS

Width x Length (mm)	Thickness (mm)
900 x 10000	25
900 x 8500	40
900 x 75000	50
In accordance with EN 822	In accordance with EN 823

### PACKAGING

Package Type - Shrink wrap Polythene

### FIRE PROPERTIES

Reaction to Fire		
Description	Value	In Accordance With
Reaction to Fire, Euroclass	A1	EN 13501-1
Combustibility	Non-Combustible	EN ISO 1182:2002, Class 0 according to BS476: part 6 1989 and part 7 1997

### THERMAL PROPERTIES

Essential Characteristics	Performance
Thermal Conductivity (declared) in 10 °C, $\lambda_{10}$	0.034 W/mK
Thermal Conductivity (declared) in 50 °C, $\lambda_{50}$	0.039 W/mK
Thermal Conductivity (declared) in 100 °C, $\lambda_{100}$	0.049 W/mK
Thermal Conductivity (declared) in 150 °C, $\lambda_{150}$	0.060 W/mK

Values announced by manufacturer.

### MOISTURE PROPERTIES

Water Permeability		
Essential Characteristics	Performance	Harmonised Technical Specification (incl. method standard)
Water Absorption, Short Term WS, Wp	≤ 1 kg/m <sup>2</sup>	EN 1609

### FACINGS

Facing Material - Reinforced aluminium foil

# ICEROCK DUCTSLAB - TECHNICAL PROPERTIES

## SHORT DESCRIPTION

Icerock Ductslab is a high quality mineral fibre slab faced with reinforced aluminium foil.

## APPLICATION

Thermal and acoustic insulation for air conditioning, warm air and extract ducts within plant rooms and boiler houses. Also used for insulation of water storage and expansion tanks.

## NOMINAL DENSITY

45 kg/m<sup>3</sup>

The limiting temperature of the fibre is more than +1000°C but the slabs should not be used where temperatures are continuously above +250°C.

## DIMENSIONS

Width x Length (mm)	Thickness (mm)
600 x 1200	40, 50, 60, 80, 100
In accordance with EN 822	In accordance with EN 823

## PACKAGING

Package Type - Shrink wrap Polythene

## FIRE PROPERTIES

Reaction to Fire		
Description	Value	In Accordance With
Reaction to Fire, Euroclass	A1	EN 13501-1
Combustibility	Non-Combustible	EN ISO 1182:2002, Class 0 according to BS476: part 6 1989 and part 7 1997

## THERMAL CONDUCTIVITY

Description	Value
Thermal Conductivity (declared) in 10 °C, $\lambda_{10}$	0.034 W/mK
Thermal Conductivity (declared) in 50 °C, $\lambda_{50}$	0.039 W/mK
Thermal Conductivity (declared) in 100 °C, $\lambda_{100}$	0.048 W/mK
Thermal Conductivity (declared) in 150 °C, $\lambda_{150}$	0.060 W/mK

Values announced by manufacturer.

## MOISTURE PROPERTIES

Water Permeability		
Description	Value	In Accordance With
Water Absorption, Short Term WS, Wp	≤ 1 kg/m <sup>2</sup>	EN 1609

## FACINGS

Facing Material - Reinforced aluminium foil



## SELECTED PROJECTS



- The Shard, London
- Alder Hey Hospital, Liverpool

- Greenwich Wharf, London
- Bristol City FC

- 33 Cavendish Sq, London
- Vauxhall Tube Stn, London

## SUPPLY DETAILS

ICEROCK						
	Nominal Insulation Thickness	Width	Length	Contents of Package	Contents of Container	
	(mm)	(mm)	(mm)	m <sup>2</sup>	Packs/Container	m <sup>2</sup> / Container
<b>ICEROCK DUCTWRAP</b>						
Density 40-45 kg/m <sup>3</sup>	25	900	10 000	9.0	810	7290
	40	900	8 500	7.65	720	5508
	50	900	7 500	6.75	650	4388
<b>ICEROCK DUCTSLAB</b>						
Density 45 kg/m <sup>3</sup>	40	600	1200	7.20	240	1728
	50	600	1200	5.76	240	1382
	60	600	1200	5.04	240	1210
	80	600	1200	3.60	240	864
	100	600	1200	2.88	240	691

## MORE INFORMATION FROM WWW.PAROC.CO.UK

The latest information on our products and insulation solutions is available on our web pages. As part of our service package for you, we keep our web pages constantly updated.



Paroc is the leading manufacturer of energy-efficient insulation solutions in the Baltic Sea region. The cornerstones of our operations are customer and personnel orientation, constant innovation, profitable growth and sustainable development. Paroc products include building insulation, technical insulation, marine and offshore insulation, sandwich panels and acoustic products. The products are manufactured in Finland, Sweden, Lithuania and Poland and as of 2013 also in Russia. Paroc has sales and representative offices in 14 European countries.



#### **BUILDING INSULATION**

offers a wide range of products and solutions for all traditional building insulation. The building insulation products are mainly used for the thermal, fire and sound insulation of exterior walls, roofs, floors and basements, intermediate floors and partitions.



#### **SOUND ABSORBING**

ceilings and wall panels for interior acoustic control, as well as industrial noise control products, are available in the range.



#### **TECHNICAL INSULATION**

products are used for thermal, fire and sound insulation in HVAC systems, industrial processes and pipe work, industrial equipment as well as shipbuilding and offshore industry.



#### **SANDWICH PANELS**

are fire proof lightweight steel-faced panels with a core material of stone wool. Paroc panels are used for façades, partitions and ceilings in public, commercial and industrial buildings.



The information in this brochure describes the conditions and technical properties of the disclosed products, valid at the time of publication of this document and until replaced by the next printed or digital version. The latest version of this brochure is always available on the Paroc website. Our information material presents applications for which the functions and technical properties of our products have been approved. However, the information does not mean a commercial guarantee. We do not assume liability of the use of third party components used in the application or the installation of our products. We cannot warrant the suitability of our products if used in an area or conditions which are not provided in our information material. As a result of constant further development of our products we reserve the right to make alterations to our information material at any time. PAROC is registered trademark of Paroc Group.

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