



Application type	Thermal and acoustic
Construction type	HVAC pipework

# ROCKWOOL

## RockLap H&V pipe sections

For rapid, efficient pipework insulation

RockLap H&V Pipe Sections are strong lengths of pre-formed insulation with a one-piece, factory applied foil facing with integral self-adhesive lap. The integral lap ensures fast and easy installation: just snap the Sections onto the pipe, peel off the backing tape and smooth down for a completely sealed joint.

The Sections are designed for thermal and acoustic insulation of heating, ventilation and air-conditioning pipework operating in the temperature range 0°C to 700°C.

### Advantages

- Resilient, high performance barrier provided by one-piece, reinforced foil with integral lap
- Fast and simple installation reduces costs and time on site
- Installation may be carried out in winter conditions
- Tape requirement reduced
- Class O finish

### Standards

RockLap H&V Pipe Sections conform to BS 3958-4, 'Bonded preformed mineral wool pipe sections' and can be used to satisfy BS 5422: 'Method for specifying thermal insulating materials.....'.

### Description

#### Sizes available

Please see the reverse of this sheet.

#### Facing

RockLap H&V Sections are provided with a factory applied foil facing which meets the requirements of Class O with joints sealed using a suitable foil tape.



Fast installation of Rockwool Rocklap H&V Pipe Sections to copper pipes

#### Self-adhesive lap

The self-adhesive lap bonds effectively at low site temperatures, hence reducing possible delay during winter installation. The adhesive on the lap has been specially formulated to provide an aggressive bond with a long life and high shear properties.

#### Density

The nominal density is not less than 120 kg/m<sup>3</sup>.

#### Specific heat

The specific heat of Rockwool is 0.84 kJ/kgK (nom.) at 20°C.

### Performance

#### Fire

RockLap Pipe Sections are non-combustible and are rated Class O as defined within the Building Regulations.

#### Water resistance

RockLap H&V Pipe Sections are water repellent. However, when used or stored in the open, the insulation should be protected with a waterproof covering.

When used to insulate cold pipes, the joints should be sealed with foil tape to protect against condensation.

## Performance (continued)

### Service temperature

RockLap H&V Pipe Sections are used to insulate pipes operating at temperatures in the range 0 to 700°C. The sections are used to insulate against frost damage. For hot pipes, the limiting temperature of the outer foil face is 80°C to maintain facing bond strength.

### Thermal conductivity and thermal loss

Mean Temperature °C	λ values (W/mK)
0	0.032
50	0.037
100	0.044
150	0.052
200	0.061

**Note** Due to the low emissivity of aluminium, heat losses, which depend upon the diameter, thickness and temperature of the pipe to be insulated, are reduced by approx. 9% by using aluminium faced sections compared with painted or PVC faced sections.

### Acoustics

It is often necessary to improve the acoustic insulation on pipes, especially those pipes in which gases, fluids or particle solids are transported at high velocities. The use of RockLap Pipe Sections can considerably improve the level of environmental sound. For higher standards of acoustic insulation, refer to Rockwool Techwrap2 and Techtube data sheet. Further information on acoustics is available on request.

### Durability

Rockwool has been proved in service for over 50 years in all types of exposure. RockLap Sections will give effective protection for the lifetime of the pipes that they insulate.

### Minimum thickness of Rockwool to prevent condensation (taken from BS 5422, ambient air temperature 25°C, 80% rh)

Nominal OD of pipe (mm)	Water	
	at 5°C	at 10°C
17 to 21	25	20
27 to 34		
42	30	25
48 to 60		
76	35	30
80 to 114		
140	50	35
169 to 245		
273		

## Typical specification

Pipes to be insulated with .....\* mm thick Rockwool RockLap H&V Pipe Sections, having a nominal density not less than 120 kg/m<sup>3</sup>, with a factory applied facing of reinforced aluminium foil incorporating integral lap for fixing. The whole to comply with the Building Regulations Class O definition.

Fixing to be in accordance with manufacturer's instructions, by peeling protective tape from self-adhesive lap and pressing lap smoothly over joint. Where adjacent Sections abut, approved 75 mm wide aluminium tape to be used to maintain integrity of the vapour barrier.

\*Insert required thickness

## Sizes available

Nominal pipe OD (mm)	Insulation thickness (mm)							
	20	25	30	35	40	45	50	60
17	•	•	•	•	•			
21	•	•	•	•	•	•	•	
27	•	•	•	•	•	•	•	•
34	•	•	•	•	•	•	•	•
42	•	•	•	•	•	•	•	•
48	•	•	•	•	•	•	•	•
54	•	•	•	•	•	•	•	•
60	•	•	•	•	•	•	•	•
67		•	•	•	•	•	•	•
76		•	•	•	•	•	•	•
80		•	•	•	•	•	•	•
89		•	•	•	•	•	•	•
108		•	•	•	•	•	•	•
114		•	•	•	•	•	•	•
140		•	•	•	•	•	•	•
169		•	•	•	•	•	•	•
194		•	•	•	•	•	•	•
219		•	•	•	•	•	•	•
230		•	•	•	•	•	•	•
245		•	•	•	•	•	•	•
273		•	•	•	•	•	•	•

### Packaging of different sizes of pipe section:

- 1 m lengths packed in cartons 102 × 40 × 40 cm (number of pieces per pack dependent on size of section)
- 1 × 1 m lengths, shrink wrapped in polyethylene film
- 1 × 1 m lengths, (unsplit), shrink wrapped

## Work on site

### Handling and storage

RockLap H&V Pipe Sections are easy to cut to any shape with a sharp knife.

When stored outside, avoid contact with the ground and cover with a securely anchored waterproof sheet.

### Maintenance

Once installed RockLap H&V Pipe Sections should need no maintenance.

## Environment



Relying on entrapped air for its thermal properties, Rockwool insulation does not contain (and has never contained) gases that have Ozone Depleting Potential (ODP) or Global Warming Potential (GWP).

Rockwool therefore complies with the relatively modest threshold of GWP<5 included in documents such as the Code for Sustainable Homes.

Rockwool Ltd is increasingly involved in recycling waste Rockwool material that may be generated during installation or at the end of life disposal and has a recycling scheme that is recognised by WRAP and the Environmental Agency. We are happy to discuss the individual requirements of contractors and users considering returning Rockwool materials to our factory for recycling.

## Health and safety

Current HSE 'CHIP' Regulations and EU directive 97/69/EC confirm the safety of Rockwool mineral wool; Rockwool fibres are not classified as a possible human carcinogen.

The maximum exposure limit for mineral wool is 5mg/m<sup>3</sup>, 8 hour time-weighted average.

A Material Safety Data Sheet is available from the Rockwool Marketing Services Department to assist in the preparation of risk assessments, as required by the Control of Substances Hazardous to Health Regulations (COSHH).



## Technical Support Helpline

Technical advice relating to RockLap H&V pipe sections is available from the Rockwool Technical Support Department on **0871 222 1780**

Rockwool Limited reserves the right to alter or amend the specification of products without notice as our policy is one of constant improvement.

The information contained in this data sheet is believed to be correct at the date of publication. Whilst Rockwool will endeavour to keep its publications up to date, readers will appreciate that between publications there may be pertinent changes in the law, or other developments affecting the accuracy of the information contained in this data sheet.

The above applications do not necessarily represent an exhaustive list of applications for Rocklap. Rockwool Limited does not accept responsibility for the consequences of using Rocklap in applications different from those described above. Expert advice should be sought where such different applications are contemplated, or where the extent of any listed application is in doubt.



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