



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.



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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 0 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 table on the following page.

Facing

RockLap H&V Sections are provided with a factory applied foil facing which meets the requirements of Class 0 with joints sealed using a suitable foil tape.

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/m³.

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 0 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.

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	values (W/mK)	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.
0	0.032	
50	0.037	
100	0.044	
150	0.052	
200	0.061	

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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	Water at 10°C
17 to 21	25	20
27 to 34	30	20
42	30	25
48 to 60	35	25
76	35	30
80 to 114	40	30
140	50	30
169 to 245	50	35
273	50	40

Sizes available

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

Packaging of different sizes of pipe section:

x 1 m lengths packed in cartons 102 x 40 x 40 cm (number of pieces per pack dependent on size of section)

- 1 x 1 m lengths, shrink wrapped in polyethylene film

+ 1 x 1 m lengths, (unsplit), shrink wrapped

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Typical specification

Pipes to be insulated with* mm thick ROCKWOOL® RockLap H&V Pipe Sections, having a nominal density not less than 120 kg/m³, 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

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.

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Sustainability

As an environmentally conscious company, ROCKWOOL® promotes the sustainable production and use of insulation and is committed to a continuous process of environmental improvement.



All ROCKWOOL® products provide outstanding thermal protection as well as four added benefits:

- Fire resistance
- Acoustic comfort
- Sustainable materials
- Durability

Health and safety

The safety of ROCKWOOL® stone wool is confirmed by current UK and Republic of Ireland health & safety regulations and EU directive 97/69/EC: ROCKWOOL® fibres are not classified as a possible human carcinogen. A Material Safety Data Sheet is available from ROCKWOOL® Technical Support (0871 222 1780) and can be downloaded from www.rockwool.co.uk to assist in the preparation of risk assessments, as required by the Control of Substances Hazardous to Health Regulations (COSHH).

Environment

Relying on entrapped air for its thermal properties, we are proud to say that 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® is increasingly involved in recycling waste ROCKWOOL® material that may be generated during installation or at end of life. We are happy to discuss the individual requirements of contractors and users considering returning Rockwool materials to our factory for recycling.

More information

For further details visit our website at www.rockwool.co.uk or phone ROCKWOOL® Technical Support on 0871 222 1780.

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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 ROCKWOOL® RockLap H&V Pipe Sections. ROCKWOOL® Limited does not accept responsibility for the consequences of using ROCKWOOL® RockLap

H&V Pipe Sections in applications different from those described within this data sheet. Expert advice should be sought where such different applications are contemplated, or where the extent of any listed application is in doubt.