

## DESCRIPTION

Ductwrap is manufactured from glass wool bonded with thermo-setting resin. It is a lightweight, flexible and dimensionally stable product suitable for flat, curved or irregular surfaces.

Ductwrap is available with or without facing materials. Regardless of the facing selected the following physical properties apply.

## APPLICATIONS

Ductwrap is used to externally insulate hot or cold air sheetmetal ductwork in residential or commercial heating and air conditioning. In the case of cold air sheetmetal ductwork condensation will occur causing corrosion and stained ceilings if not insulated. In these circumstances a vapour barrier will be required as well as insulation and can be supplied adhered to Ductwrap (i.e. Ductwrap - Foil Faced).

## BENEFITS

**Lower Operating Costs.** High thermal efficiency reduces heat loss/gain which increases operating efficiency and reduces running costs.

**Lower Installation Costs.** High thermal efficiency reduces size of equipment required for maintaining comfort levels.

**No Water Stained Ceilings.** Sheetmetal ductwork wrapped with Ductwrap and vapour barrier will not sweat. It prevents moisture condensing on the cold duct surface.

**Uniform Thickness.** The factory controlled uniform thickness means the insulation value remains constant.

**Insulation for every job.** Hot, cold, dual temperature, exposed or concealed ductwork can be insulated with Ductwrap. Tailored to economic and performance requirements.

**Noise Reduction.** Excellent accoustical properties, thereby reducing sound transmission.

## APPLICATION RECOMMENDATIONS

All insulating materials however fixed, should be in close contact with the surfaces to which they are applied, unless an air space is specifically required.

Ensure that Ductwrap does not hang away from the sheetmetal ductwork or that the weight of the Ductwrap does not delaminate the Ductwrap.

When a vapour barrier is used, as will be the case on all cold air ducts, it must be completely sealed to prevent the ingress of moisture.

The vapour barrier jacket should be overlapped 75mm at longitudinal and transverse joints and completely sealed with 75mm aluminium foil tape or a suitable contact adhesive. Care should be taken that the fibreglass insulation is not compressed by overtight fixing of the vapour barrier.

On small ducts i.e. those with the longest dimension not exceeding 350mm Ductwrap may simply be wrapped tightly around the duct and held in place with the facing material. A brush applied strip of contact bond adhesive along the centre of the underside of the duct will prevent an air space occurring.



Ducts of larger dimensions should have Ductwrap applied with a minimum of 50% coverage of fire rated contact bond adhesive to all sides of the duct. Impale Ductwrap over mechanical fasteners (spot welded or adhered pins) at a maximum of 450mm centres.

Insulation is retained on the pin with 25mm diameter speed clips or nylon washers and any protruding pins clipped off. All penetrations through the vapour barrier by attachment pins should be sealed with a minimum 100mm piece of aluminium pressure sensitive tape to complete the vapour barrier.

Adjoining pieces should be firmly butted together with all joints and penetrations through the vapour barrier being completely sealed.

## GENERAL

Maximum Temperature. Ductwrap should not be used at temperatures above : 120°C Blanket  
: 60°C Foil Facing

Moisture Absorption - BS2972. Less than 0.2% by volume when held for 96 hours in an atmosphere of 95%

relative humidity at 49°C (120°F).

Odours. Glass wool is odourless and will not absorb odours from surroundings.

Bacteria and Fungus Resistance. Glass wool does not promote nor sustain bacteria or fungus growth.

Alkalinity. pH.9, slightly alkaline.

Corrosion Resistance. Does not cause or accelerate corrosion with steel, copper or aluminium.

Shrinkage. None.

Capillarity. Negligible after 24 hours.

Price. Refer to our current price lists "Air Conditioning Products".

Packaging. Ductwrap rolls are packed in bales in accordance with the details shown on the price list mentioned. Packaging details may vary at the manufacturers discretion.

Handling. Insulation is a fragile product and particularly susceptible to damage on site. Where necessary specifiers should make provision for protection of product. Stacking of packed insulation should be limited in accordance with the nature of the material:- Bales containing Ductwrap should be stored flat and not more than four high.

(Material Safety Data Sheet available on request.)

PRODUCT PERFORMANCE				
<b>Thermal Conductivity.</b> 0.036 Watts/m °C at 25° C mean				
<b>Early Fire Hazard.</b> When tested to AS 1530 pt 3:1976 the following results were obtained.				
			Plain	Flamestop
Ignitability Index	(0-20)	0	0	0
Spread of Flame Index	(0-10)	0	0	0
Heat Evolved Index	(0-10)	0	0	0
Smoke Developed Index (Reports available)	(0-10)	0	0	0
<b>Piece Weight Unfaced.</b> 10000 x 1200 x 25 - 5.4 kg 10000 x 1200 x 50 - 10.8 kg				
Ductwrap Plain	10000 x 1200	25	1 piece per bale	12.0m <sup>2</sup> per bale
	10000 x 1200	50	1 piece per bale	12.0m <sup>2</sup> per bale
Ductwrap Flamestop	10000 x 1200	25	1 piece per bale	12.0m <sup>2</sup> per bale
	10000 x 1200	50	1 piece per bale	12.0m <sup>2</sup> per bale
<b>NOTE: Available Facings.</b> Flamestop 524 Standard, Flamestop 520 Special				



**FORMAN**  
BUILDING SYSTEMS

**Auckland:** Phone: 0-9-276 4000 Fax: 0-9 276 5757

**Wellington:** Phone: 0-4-568 7132 Fax: 0-4-568 3413

**Hamilton:** Phone: 0-7-850 8395 Fax: 0-7-850 8394

**Christchurch:** Phone: 0-3-379 9329 Fax: 0-3-365 6118

**Rotorua:** Phone: 0-7-348 0951 Fax: 0-7-347 1839

**Dunedin:** Phone: 0-3-474 1800 Fax: 0-3-474 1600

Freephone 0800 45 4000

[www.forman.co.nz](http://www.forman.co.nz)

*Insulation, Ceiling and Wall Systems.*