

## Energy saving duct insulation system



- Saves energy
- Prevents condensation
- Complies with 2010 Building Regulations
- Reduces installation time and costs

Domus Thermal is a unique (patent pending) duct insulation system, designed specifically to comply with 2010 Building Regulations and to radically improve the thermal insulation of ventilation ducting in domestic properties.



### What is Domus Thermal?

- A range of EPS insulation components specifically designed to insulate round or rectangular domestic ventilation ducting passing through cold areas.
- A method of significantly reducing heat loss and virtually eliminating the formation of condensation.
- The first engineered duct insulation system available to comply with recent improvements to Building Regulations.
- An installer-friendly solution which can be fitted quickly and reliably without the need for gluing or taping.



### What is different about Domus Thermal?

#### Complies with Building Regulations

The only engineered duct insulation solution which complies with 2010 Building Regulations. The thermal performance of the range, in relation to 2010 Building Regulations, has been independently ratified by one of the UK's leading thermodynamics experts.

- Building Regulations demand:
  - ≤0.04 W/(m.K) thermal conductivity at 25mm insulation thickness
  - Minimum thermal resistance or R-value = 0.025/0.04 = **0.625 K/W**
- Domus Thermal provides:
  - ≤0.03 W/(m.K) thermal conductivity at 20mm insulation thickness
  - Minimum thermal resistance or R-value = 0.020/0.03 = **0.666 K/W**

The increased thermal resistance of Domus Thermal therefore exceeds current Building Regulations.



#### Sustainable

Domus Thermal products are recyclable and when installed in accordance with Polypipe Ventilation's installation guidelines, Domus Thermal offers a life expectancy greater than or equal to that of the Domus duct system.

Domus Thermal has an excellent Ozone Depletion Potential (ODP) of 0 and a Global Warming Potential (GWP) of <5.

#### Quicker and easier to install, means lower installation costs

Current available, compliant, solutions are more labour intensive and require higher skill levels to install. Domus Thermal's simple interlock feature means that the system is quicker and easier to install, as joints require no taping or sealing. This revolutionary method can significantly reduce installation costs.

Moulded cutting guides are incorporated into each 1m long insulation component to assist with length trimming if required. The first cutting guide is also set to enable lengths to be trimmed back to incorporate duct fittings.

Rectangular 1m lengths feature an integral straight connector recess to provide clearance for straight connectors when installing longer duct runs.

The robust structure and design of Domus Thermal makes it resilient to site handling, which means less waste and reduced costs.

#### Breadth of range

Domus Thermal is available in a range of profiles and fittings to insulate the Domus EasiPipe (round) and Supertube (rectangular) duct systems.

To support the system, PVC coated, perforated steel banding is also available for surface mounting or suspending the insulated system. The use of this soft-edged fixing system is strongly recommended to ensure that the insulated duct is held securely without damage.

#### Unique aesthetic design

The interlocking feature and regular external profile provides homeowners with a neat, professional and continuous appearance.

### Why use Domus Thermal?

Approved Document F of Building Regulations 2010 states that all ducting installed in domestic properties, which passes through unheated areas or loft spaces, should be insulated with the equivalent of at least 25mm of a material having a thermal conductivity of ≤0.04 W/(m.K) to reduce the possibility of condensation forming.

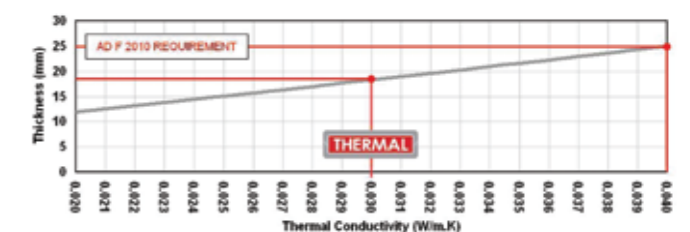
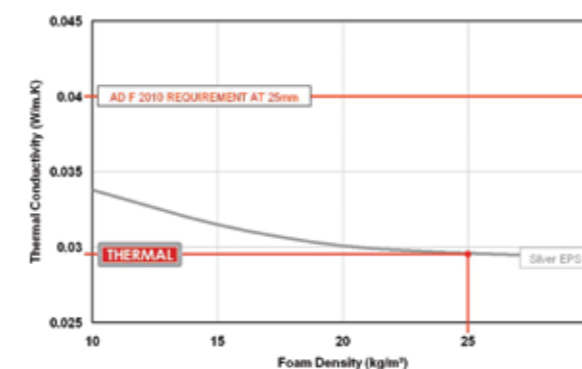
The loss of heat through poorly insulated duct systems means that modern homes are at risk of losing a valuable source of energy; for example, when using warm exhaust air to heat fresh incoming air through an MVHR system or exhaust air heat pump.

Domus Thermal exceeds these regulations, having a thermal conductivity of ≤0.03 W/(m.K), thus providing better insulation and peace of mind that the system will be compliant and save energy. This greatly improved thermal conductivity allows the wall thickness to be reduced to just 20mm in most profiles.






### Improved thermal insulation properties

Domus Thermal is manufactured from flame retardant (EN 13163 class E) Silver EPS (expanded polystyrene), which provides its enhanced thermal insulation properties and enables the system to exceed the requirements of the current Building Regulations.

The Silver EPS used to manufacture Domus Thermal provides a significantly improved thermal conductivity value due to the addition of specifically engineered carbon particles. This also gives Domus Thermal its distinctive silver colour.



Round	Code	Description	Box Quantity*
	TS1100-4	Ø100mm Round Duct Insulation 1m	8
	TS1100-5	Ø125mm Round Duct Insulation 1m	8
	TS1100-6	Ø150mm Round Duct Insulation 1m	8
	TS490	Ø100mm Round 90° Bend Duct Insulation	6
	TS590	Ø125mm Round 90° Bend Duct Insulation	6
	TS690	Ø150mm Round 90° Bend Duct Insulation	6
	TS491	Ø100mm Round 45° Bend Duct Insulation	6
	TS591	Ø125mm Round 45° Bend Duct Insulation	6
	TS492	Ø100mm Round Equal T Piece Duct Insulation	6
	TS592	Ø125mm Round Equal T Piece Duct Insulation	6
	TS692	Ø150mm Round Equal T Piece Duct Insulation	6
	TS22	PVC Coated Steel Fastening Strap, 10m roll, White	as required

Rectangular	Code	Description	Box Quantity*
	TS510	204x60mm Duct Insulation 1m	8
	TS550	204x60mm Horizontal 90° Bend Duct Insulation	6
	TS555	204x60mm Horizontal 45° Bend Duct Insulation	6
	TS582	204x60mm Horizontal T Piece Duct Insulation	6
	TS22	PVC Coated Steel Fastening Strap, 10m roll, White	as required

\*Two components per fitting required



To access our in-house technical service call our helpful team on: **08443 715523**

E & OE We reserve the right to alter product specification without prior notice.

**Polypipe Ventilation**  
Sandall Stones Road  
Kirk Sandall Industrial Estate  
Kirk Sandall, Doncaster  
DN3 1QR  
United Kingdom

tel: +44 (0)8443 715523  
fax: +44 (0)8443 715524

email: vent.info@polypipe.com  
web: www.polypipe.com/ventilation

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