

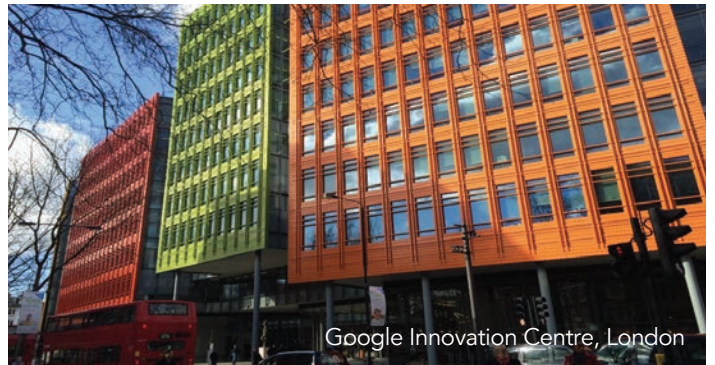
AUSTRALIA

Innovative, high performance, insulated ductwork systems

that save energy, cut costs and reduce environmental impact.



Sofitel, Dubai



Google Innovation Centre, London

Spiralite is a lightweight non-metallic but durable, insulated flat oval and circular ductwork system:

It enables optimal airflow and energy efficiencies, generating significant space, weight, material, delivery and time savings. This results in cost savings in both the installation and the ongoing operation of any HVAC system. Our system design enhancements can also save HVAC and related plant costs. This ductwork does not require any further external or internal thermal insulation.

Lower carbon footprint:

Spiralite's component parts have a much lower carbon footprint than metal ductwork with insulation. Our ductwork is up to 80% lighter than metal while still very robust and pressure resistant.

Energy saving design: Spiralite has a unique combination of energy saving properties:

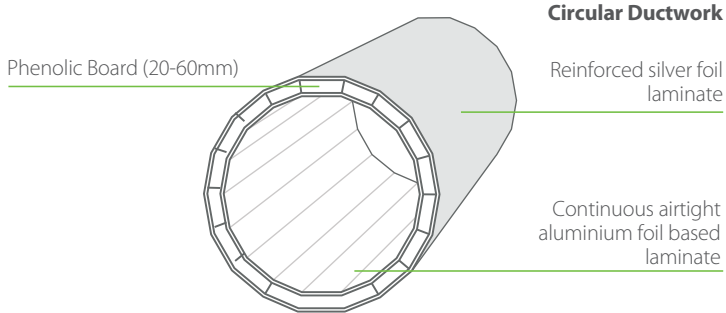
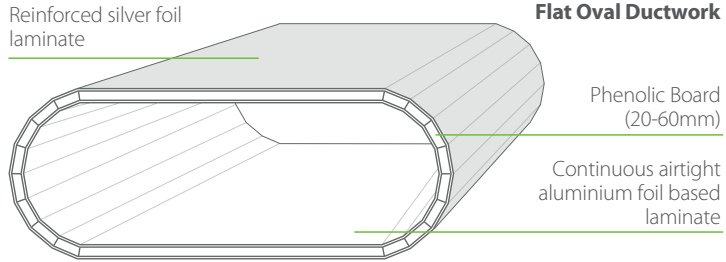
- Rounded ductwork shapes
- Ultra-smooth internal surface
- Close to zero leakage (Class C at 2,500Pa/10.05 inH₂O)
- Optimal thermal insulation efficiency



Fully compliant: Due to its energy and carbon reduction advantages, this unique, innovative and globally patent protected non-metallic insulated ductwork is a compliant product under the following environmental assessment programmes: BREEAM, LEED, Estidama/(Pearl), Dubai Green Building/AI Sa'fat, Singapore Green Building Products and Green Star. It is also an approved green product under the Trustmark (ADQCC) and Future Build (MASDAR) sustainability programmes.



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Insulated circular and flat oval ductwork

Unique and innovative rounded shapes with internal laminate maximize airflow efficiency, robustness and pressure resistance while minimizing pressure drops, friction losses, leakages and energy consumption.

Key features:

- Over 80% lighter than insulated steel ductwork
- Very robust with an extended life span
- All in one ductwork and insulation quick and easy to install, significantly reducing labour time on site
- Highly cost competitive compared to traditional lagged metal ductwork
- Carbon and energy savings giving optimal BREEAM/LEED/ESTIDAMA/(Pearl)/GREEN STAR/DGBR (Al Sa'fat)/Singapore Green Building Products Credits
- Class C air leakage at 2,500 Pa rated in BSRIA tests (airtight + pressure resistant upto 7,667 Pa)
- Suitable for internal or external use with factory applied 5-ply weatherproof laminate or 9-ply metal standard laminate for plant room or other high activity areas
- Available with aesthetic laminate in any color or effect for internal exposed (open-to-view) ductwork
- Health and Safety advantages due to light weight and ease of manual handling
- Suitable for all air conditioning buildings, prefabricated mechanical modules and retro fits
- Manufactured and installed in compliance with DW144 (B+ESA 2013), SMACNA and ASHRAE, as applicable

Technical Specifications – Phenolic

Parameters	Details and Compliance
Reaction to fire	Class 0 (BS476-6); Euroclass B, s1-d0 (BS EN 13501-1)
Flame Spread (FSI) and Smoke Developed (SDI)	FSI of less than 25 and SDI of less than 50 (ASTM E 84/ UL 723); AS 1530.3 Fire Hazard Rating
UL Listing	Listed as Class 1 to Standard for Safety UL181; UL 181 Burn Test
Density	55 – 60 kg/m ³
Compressive Strength	200 kPa (EN 826)
Temperature range	From - 20° C to +80° C
Specific thermal (heat) capacity	1470 J/kgK (ref.CIBSE Guide A)
Coefficient of thermal conductivity and thickness	0.022W/m.K at 10-19° C (BS EN 12665); 0.018W/m.k at 10° c (ASTM C-518); R1.5 @ 30mm, R2.0 @ 42mm R3.0 @ 60mm; AS4859.1 u-values
Closed cell content	Minimum 90% (ISO 4590)
Melting point	N/A to thermoset insulation (chars when exposed to extreme heat)
Material Base	Phenolic – rigid foam from phenolic resin
Ozone Depletion Potential (ODP)	Zero ODP; CFC/HCFC/HFC free; low GWP (Global Warming Potential)
CE Certificate of Conformity	EN 14314; see Declaration of Performance (CE Mark - European Construction Products Regulations)
Ductwork and Building Standards	BS EN 13403:2003 Ventilation for Building Non-metallic ducts. Ductwork made from insulation Ductboards
Quality Management System	ISO 9001:2015
Environment Management System	ISO 14001:2014
Occupational Health & Safety Management	ISO 45001:2018

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