



Mirdif35



Wafi Tower



Serenia Residences, The Palm

Spiralite is a lightweight 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 on both the installation and the ongoing operation of any HVAC system. Our system design enhancements can also save AC and related plant costs.

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



Lower carbon footprint:

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



Fully compliant: Due to its energy and carbon reduction advantages, this unique, innovative and globally patent protected insulated ductwork is a compliant product under the following environmental assessment programmes: BREEAM, LEED, Estidama and Green Star. It is also an approved green product under the Trustmark (ADQCC) and Future Build (MASDAR) sustainability programmes.

www.spiraliteductwork.com

BREEAM®

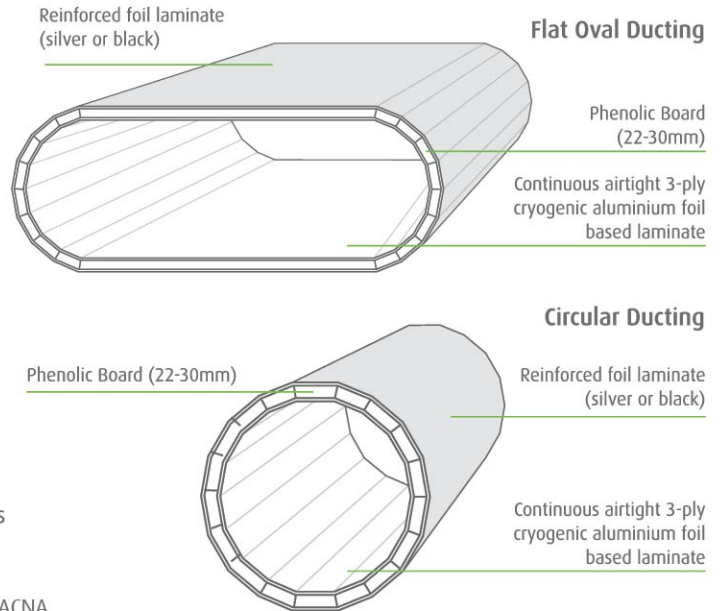


Insulated circular and flat oval ductwork

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 ducting and insulation quick and easy to install, significantly reducing labour time on site
- Highly cost competitive compared to traditional lagged steel ductwork
- Carbon and energy savings giving optimal BREEAM/LEED credits
- Class C air leakage at 2,500 Pa rated in BSRIA tests
- Suitable for internal or external use with factory applied weatherproof laminate
- Health and Safety advantages due to lightweight material
- Can be delivered flat and made up on site, saving time and money
- Fully recyclable ductwork can be reused or recycled
- Building design benefits due to reduced weight and space requirements
- Suitable for all air conditioning ductwork, prefabricated mechanical modules and retro fits
- Manufactured and installed in compliance with DW144 (B+ESA 2013), SMACNA and ASHRAE, as applicable



Technical Specifications - Phenolic

Parameter	Details
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)
UL Listing	Listed as Class 1 to Standard for Safety UL181
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	0.022 W/m.K at 10-19°C (BS EN 12667); 0.018W/m.k at 10°C(ASTM C-518)
Standard thickness	22 - 30 - 45 mm
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)
EC Certificate of Conformity	EN 14314; see Declaration of Performance
Building Standard	BS EN 13403:2003 Verification for Buildings non-metallic ducts. Ductwork made from Insulation Ductboards
Quality Management System	BS EN ISO 9001:2008
Environment Management System	BS EN ISO 14001:2004
Occupational Health & Safety Management	ISO:18001:2007:OHSA

