

Innovative, high performance, insulated ductwork systems

that save energy, cut costs and reduce environmental impact.



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 in 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

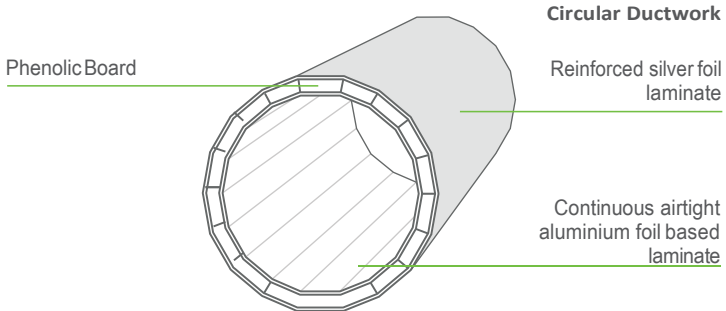
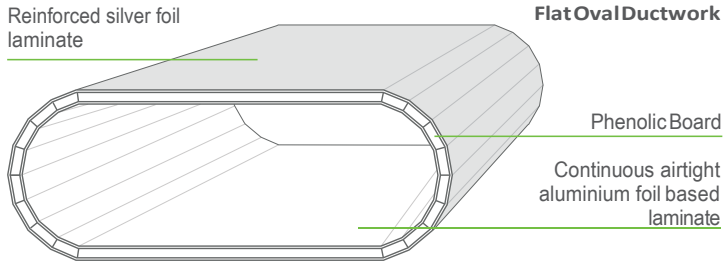


Lower carbon footprint:

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/Pearl, Dubai Green Building/AI Sa'fat and Green Star. It is also an approved green product under the Trustmark (ADQCC) and Future Build (MASDAR) sustainability programmes.





Insulated circular and 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:

- Internal bacteriostatic laminate facilitates optimal sterility of the conditioned air and indoor air quality (IAQ)
- Over 80% lighter than insulated metal ductwork, yet very robust with an extended life span
- Internal connectors for quick installation and low leakage
- All in one ductwork and insulation quick and easy to install, significantly reducing labour time on site
- Highly cost competitive compared to traditional insulated metal ductwork
- Carbon and energy savings giving optimal BREEAM/LEED/ESTIDAMA/(Pearl)/DGBC (Al Sa'fat)
- Class C air leakage at 2,500 Pa rated in BSRIA tests (airtight + pressure resistant up to 7,667 Pa)
- Suitable for internal or external use with factory applied weatherproof laminate
- 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
Flame Spread (FSI) and Smoke Developed (SDI)	FSI of less than 25 and SDI of less than 50 (ASTM E 84)
Density	50 – 55 kg/m ³
Temperature range	From - 20° C to +80° C
Coefficient of thermal conductivity	0.0215 w/m.K to 0.028 w/m.K at 10°C to 20°C (ASTM C-518)
Melting point	N/A to thermoset insulation (chars when exposed to extreme heat)
Ozone Depletion Potential (ODP)	Zero ODP; CFC/HCFC/HFC free; low GWP (Global Warming Potential)
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

Disclaimer: Khansaheb Industries LLC reserves its rights to make amendments to the details on this Technical Data Sheet.

Tel: +971 4 880 66 05
 Fax: +971 4 888 66 15
 khansaheb_industries@khansaheb.ae
 www.khansahebindustries.ae
 www.spiraliteductwork.com



Patent Protected. Spiralite is the registered trademark of Khansaheb Industries LLC