



# FACTORY FABRICATED SPIRAL DUCT





## Introduction:

Spiral duct has fewer joints and connectors than rectangular duct and is also easier to seal – reducing leakage and waste. Fewer leaks mean a more efficient, energy and cost-saving HVAC system. Spiral Ductwork is fully sealed which allows the fan speed to increase and operating pressure to be compensated.

### Major Benefits of Spiral Duct for HVAC Systems

- Low Leakage Rates
- Less Static Pressure Loss
- Easy to Clean
- Less Noise
- No Additional Space is required
- Budget Friendly



# FACTORY FABRICATED

# SPIRAL DUCT

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Applications

- Air conditioning (including hight pressure and velocity air distribution systems)
- Ventilation (Industrial & Tunnel)
- Warm air heating
- Fume and dust extraction
- Pneumatic conveying
- Exhaust and air intake pipes
- Humidification.

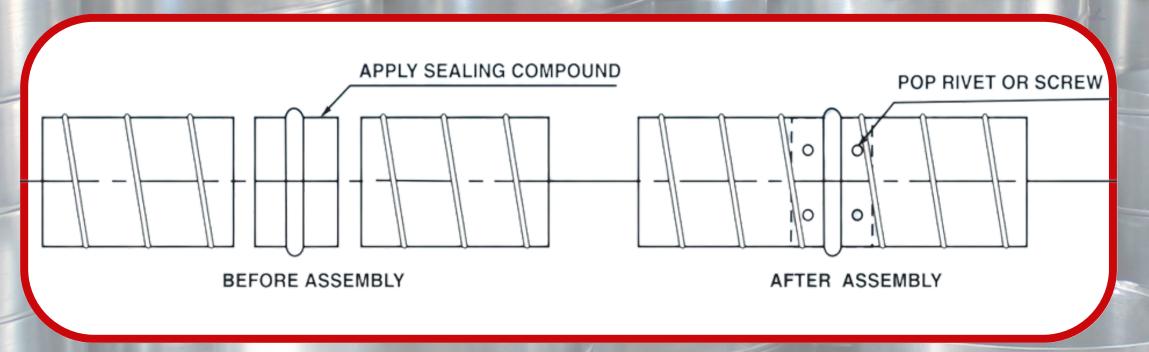


0.50mm (26G) to 1.2mm (18G) Thickness of Spiral ducts as per IS 655 (HVAC Duct construction standards)



Jointing System

Spiral Ducts and duct fittings joined together by slip joint coupling.



# SPIRAL DUCT MANUFACTURING RANGEDiameter100mm to 1400mmLengthUnlimitedMaterialGalvanised Steel, Aluminium, Mild Steel<br/>(CRCA), Stainless Steel, etcSurface<br/>ConstructionsPlain or Corrugated<br/>(to increase the rigidity of the ducting by 300%)



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# SPIRAL DUCT

**STANDARDS**: IS 655 [TABLE: 8 Thickness of Sheet for Circular

Spiral (Galvanized Steel Duct)

-(Clause 6.2.3)]

Classification Of Duct By pressure	Low Pressure Duct	Medium Pressure Duct & High Pressure Duct	Thickness Of Sheet, (Minimum) mm
Internal Diameter of Duct (d), mm	d ≤ 450	d ≤ 200	0.5 (26G)
	450 < d ≤ 710	200 < d ≤ 560	0.6 (24G)
	710 < d ≤ 1000	560 < d ≤ 1000	0.8 (22G)
	1000 < d	800 < d ≤ 1000	1.0 (20G)
		1200 < d	1.2 (18G)

STANDARDS: IS 655 [TABLE: 9 Thickness of Sheet for Circular Spiral (Stainless Steel Duct)
-(Clause 6.2.3)]

Classification Of Duct By pressure	Low Pressure Duct	Medium Pressure Duct & High Pressure Duct	Thickness Of Sheet, (Minimum) mm
Internal Diameter of Duct (d), mm	d ≤ 560	d ≤ 250	0.5 (26G)
	560 < d ≤ 800	250 < d ≤ 560	0.6 (24G)
	800 < d ≤ 1000	560 < d ≤ 800	0.8 (22G)
	1000 < d	800 < d ≤ 1000	1.0 (20G)
		1000 < d	1.2 (18G)



# UNIVERSAL INDUSTRIES

www.universalac.in



**South Asia** ISO 9001: 2015 **Certificate No. 99 100 22850** 

ISO 9001: 2015

# **CERTIFICATE** The Certification Body of TÜV SÜD South Asia Private Limited **CEPT M Ф M KAT**

Universal Industries DP-58. 1st Main Road, SIDCO Industrial Estate Kattur, Thirumullaivoyal, Chennai - 600062, Tamil Nadu, India

> has implemented Quality Management System in accordance with ISO 9001:2015

Manufacture and Supply of HVAC Ducts, Grilles & Diffusers, Pre Insulated Pipes & Accessories

The certificate is valid from 2022-12-12 until 2025-12-11 Subject to successful completion of annual periodic audits fits certificate can be obtained through TUV SUD website by scanning below QR of the number (without spaces) on web page. Further clarifications regarding the status

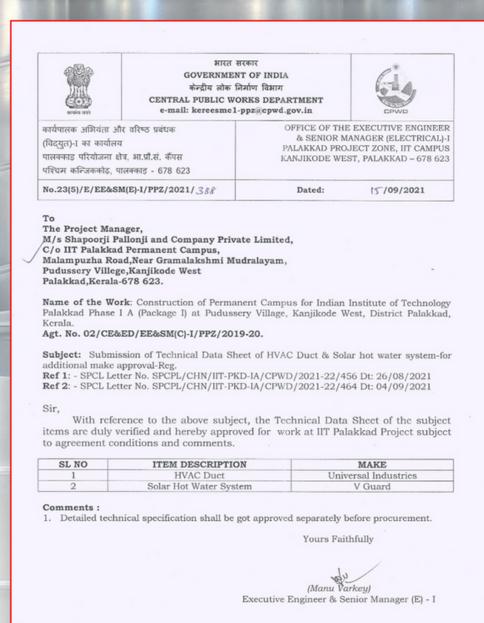
Date of Initial certification: 2022-12-12 Issue Date: 2022-12-12 Rev. 00



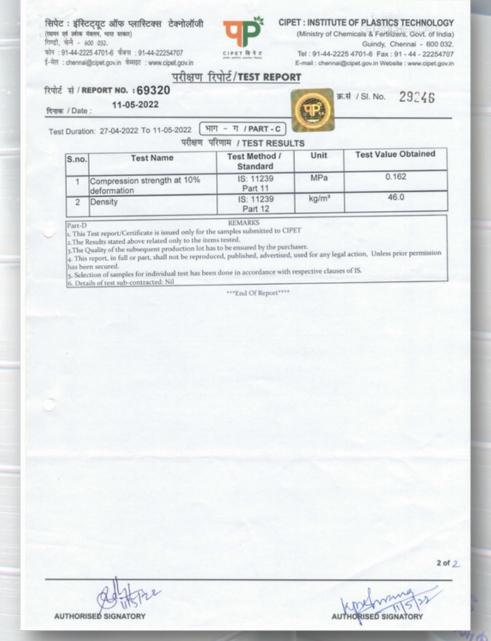




# CPWD APPROVED RECTANGULAR DUCT



# CIPET TEST CERTIFICATE



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