

Technical Catalogue



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

Plain Flat Oval Duct

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FACTORY FABRICATED PLAIN FLAT OVAL DUCT



Introduction :

Plain Flat-oval spiral duct is machine formed duct. The straight sections of the long sides rolled by means of sheet rolling machine and it is formed as perfectly flat. The flat oval shape is specifically designed for low head room and restricted space locations which can't accept round duct.

Major Benefits of Spiral Duct for HVAC Systems

- *·Light weight flat reinforced walls.*
- *·Smooth streamline internal surfaces giving low friction loss and no turbulence.*
- *·Long runs in continuous lengths.*
- *·Simple joining technique.*
- *·mated fittings of consistent size.*
- *·Reduced space requirement in height or depth*



FACTORY FABRICATED PLAIN FLAT OVAL DUCT

Specifications :

- Thickness: 24 G to 16 G Thickness of flat-oval spiral ducts as per SMACNA "HVAC Duct Construction Standards" - 1985.*
- Length: 4 ft. length.*
- Material: Galvanised steel, mild steel (CRCA), Aluminium, Stainless Steel etc.*
- Surface Constructions: Plain flat smoot surface finish with spot welding*

FLAT OVAL DUCT CONSTRUCTION

MAJOR DIMENSION DUCT WIDTH	LONGITUDINAL SEAM DUCT GAUGE	GAUGE OF FITTINGS
TO 24"	20	20
25" TO 36"	20	20
37" TO 48"	18	18
49" TO 60"	18	18
61" TO 70"	16	16
71" AND ABOVE	16	16



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CPWD APPROVED RECTANGULAR DUCT

	भारत सरकार GOVERNMENT OF INDIA केंद्रीय लोक निर्माण विभाग CENTRAL PUBLIC WORKS DEPARTMENT e-mail: kereesme1.ppz@cpwd.gov.in	
कार्यपालक अभियंता और वरिष्ठ प्रबंधक (विद्युत्)-1 का कार्यालय पालकपाट परियोजना क्षेत्र, आ.पी.से. कैंपस परिचम कनिजककोट, पालकपाट - 678 623		OFFICE OF THE EXECUTIVE ENGINEER & SENIOR MANAGER (ELECTRICAL)-1 PALAKKAD PROJECT ZONE, IIT CAMPUS KANJIKODE WEST, PALAKKAD - 678 623
No.23(S)/E/EE&SM(E)-I/PPZ/2021/3&F		Dated: 15/09/2021

To
The Project Manager,
M/s Shapoorji Pallonji and Company Private Limited,
C/o IIT Palakkad Permanent Campus,
Malampuzha Road, Near Gramalakshmi Mudralayam,
Pudussery Village, Kanjikode West
Palakkad, Kerala-678 623.

Name of the Work: Construction of Permanent Campus for Indian Institute of Technology Palakkad Phase I A (Package I) at Pudussery Village, Kanjikode West, District Palakkad, Kerala.
Agt. No. 02/CE&ED/EE&SM(C)-I/PPZ/2019-20.

Subject: Submission of Technical Data Sheet of HVAC Duct & Solar hot water system-for additional make approval-Reg.
Ref 1: - SPCL Letter No. SPCPL/CHN/IIT-PKD-IA/CPWD/2021-22/456 Dt: 26/08/2021
Ref 2: - SPCL Letter No. SPCPL/CHN/IIT-PKD-IA/CPWD/2021-22/464 Dt: 04/09/2021

Sir,
With reference to the above subject, the Technical Data Sheet of the subject items are duly verified and hereby approved for work at IIT Palakkad Project subject to agreement conditions and comments.

SL NO	ITEM DESCRIPTION	MAKE
1	HVAC Duct	Universal Industries
2	Solar Hot Water System	V Guard

Comments :
1. Detailed technical specification shall be got approved separately before procurement.

Yours Faithfully

(Manu Varkey)
Executive Engineer & Senior Manager (E) - I

CIPET TEST CERTIFICATE

सिपेट : इंस्टिट्यूट ऑफ प्लास्टिक्स टेक्नोलॉजी
(मंत्रालय ऑफ क्लेमिन्ट्स, नया दहली)
पिन कोड - 600 032
फोन : 91-44-2225 4701-8 वीरम : 91-44-22254707
ई-मेल : chennai@cipet.gov.in वेबसाइट : www.cipet.gov.in

CIPET : INSTITUTE OF PLASTICS TECHNOLOGY
(Ministry of Chemicals & Fertilizers, Govt. of India)
Guindy, Chennai - 600 032.
Tel: 91-44-2225 4701-8 Fax: 91 - 44 - 22254707
E-mail : chennai@cipet.gov.in Website : www.cipet.gov.in

परीक्षण रिपोर्ट / TEST REPORT
रिपोर्ट सं / REPORT NO. : 69320 क्र.सं / Sl. No. 29246
दिनांक / Date : 11-05-2022

Test Duration: 27-04-2022 To 11-05-2022 भाग - ग / PART - C

S.no.	Test Name	Test Method / Standard	Unit	Test Value Obtained
1	Compression strength at 10% deformation	IS: 11239 Part 11	MPa	0.162
2	Density	IS: 11239 Part 12	kg/m ³	46.0

REMARKS
1. This Test report/Certificate is issued only for the samples submitted to CIPET.
2. The Results stated above related only to the items tested.
3. The Quality of the subsequent production lot has to be ensured by the purchaser.
4. This report, in full or part, shall not be reproduced, published, advertised, used for any legal action, Unless prior permission has been secured.
5. Selection of samples for individual test has been done in accordance with respective clauses of IS.
6. Details of test sub-contracted: Nil

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AUTHORISED SIGNATORY

CERTIFICATE

The Certification Body of TÜV SÜD South Asia Private Limited certifies that

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 for the scope of

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
The present status of this certificate can be obtained through TÜV SÜD website by scanning below QR code and by entering the certificate number (without spaces) on web page. Further clarifications regarding the status & scope of this certificate may be obtained by consulting the certification body at sales@tuv-sud.com

Certificate Registration No. 99 100 22850
Date of Initial certification: 2022-12-12
Issue Date: 2022-12-12 Rev. 00

Rajesh Kulkarni
Head of Certification Body of TÜV SÜD South Asia Private Limited, Mumbai
Member of TÜV SÜD Group

TÜV SÜD South Asia Pvt. Ltd. • TÜV SÜD House • Sakhi Naka • Andheri (East) • Mumbai - 400072 • Maharashtra • India

For Enquires Contact :
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factory@universalac.in

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Chennai : 93840 59697
Hyderabad : 98403 98484
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