

# Technical Catalogue



**UNIVERSAL  
INDUSTRIES™**



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

# *Puf Pipe Sections & Supports*





# *PUF PIPE SECTIONS*



## **PRODUCT DESCRIPTION**

**Rigid PU foam cored Pipe sections manufactured and available in standard sizes have excellent thermal insulation properties and make a valuable contribution towards reducing energy consumption in various industries. PU foam cored Insulated Pipe Sections are manufactured with the help of a dedicated High Pressure equipment using state of art moulds and fixtures to consistently yield:**

- Environment friendly CFC-free Polyurethane Foam of desired and uniform density**
- Close cell content of over 90%**
- Excellent dimensional & thermal insulation properties together with compressive strength this added dimension makes it a fit construction material UNIVERSAL INDUSTRIES offers a wide range of READY TO APPLY Polyurethane foam core Insulated Pipe Section**





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# ***PUF PIPE SECTIONS***

## ***FEATURES / ADVANTAGES***

- Superior insulating efficiency leading to energy savings.*
- Void free insulation*
- Durable*
- Water and moisture resistant*
- Dimensionally stable*
- Resistant to most oils , chemicals , and solvents*
- No thermal bridges*
- Fire resistant*

## ***DETAILS OF PUF PIPE SECTION***

- Pipe Size - 3/4" To 16"*
- Insulation Thickness- 30mm And Above.*
- Length - 1000mm*
- Density - 40kg/m<sup>3</sup> And Above.*

*Available in PUR & PIR.*

*For pipe size over 24" we recommend puf sheets for pipe line insulation.*





## **PRODUCT DESCRIPTION**

***Polyurethane foam is one of the major components of pre-insulated pipe supports manufactured at UNIVERSAL INDUSTRIES. Polyurethane is different from most plastic materials in that it can be tailored to meet various load requirements of varying applications. Old techniques of wooden pipe support for the erection of plant & pipe lines are now replaced by PUF / PIR Pipe Support. UNIVERSAL INDUSTRIES offers the PUF / PIR Saddles as per requirement of clients in terms of design.***

***Insulated pipe supports are designed to prevent direct heat transfer between pipes and their supports. Thus, they reduce heat loss due to conduction at each support.***

***They serve the following purposes:***

- Carry the load and allow necessary movement at each support point.***
- Provide insulation in the support area where the regular pipe insulation cannot be installed.***
- Minimize the cost of field installation by reducing installation time.***





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# ***PUF PIPE SECTIONS***

***Available in PUR and PIR.***

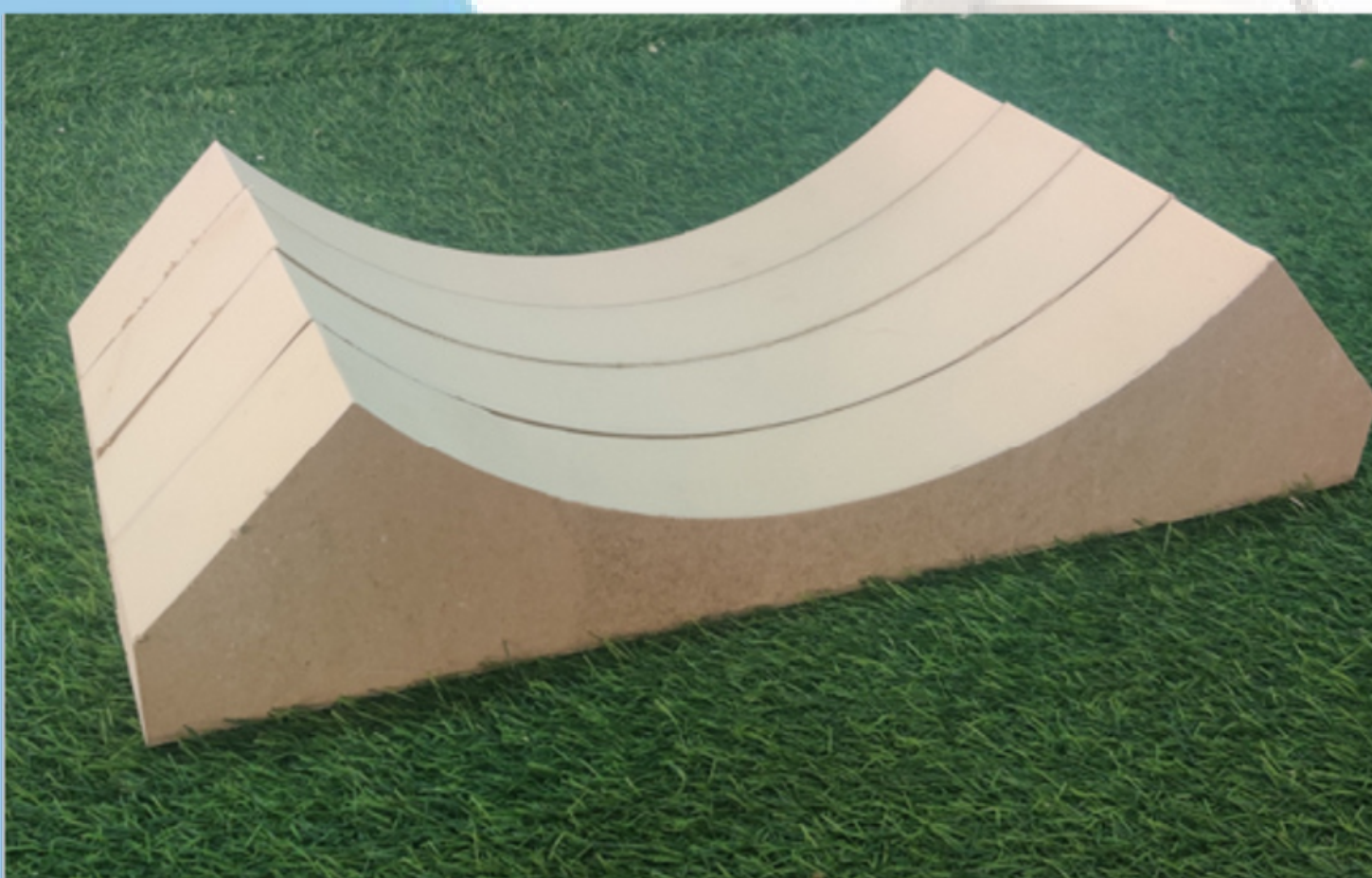
## ***Product Details***

- ***Pipe Size : 1/4" Onwards***
- ***Thickness - 50mm & 75mm.***
- ***Length - 50mm Onwards***
- ***Density – 120 ( $\pm$  5) Kgl m<sup>3</sup>.***

## ***Available Shapes***

- ***Square Supports***
- ***Round Supports***
- ***Degree Supports***

***Note: Shapes And Sizes As Per  
Customer Requirements Can Be  
Manufactured.***







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ISO 9001 : 2015

**CPWD APPROVED  
PRE INSULATED PIPES**

	भारत सरकार GOVERNMENT OF INDIA केन्द्रीय सार्वजनिक विभाग CENTRAL PUBLIC WORKS DEPARTMENT e-mail: kerecsm1-ppz@cpwd.gov.in	
कार्यपालक अभियंता और सहायक प्रबंधक (विद्युत)-I का कार्यालय पुदुसरी विलेज, मा.जी.सं. कैम्पस पश्चिम कर्नाटक, पालक्काद - 678 623	OFFICE OF THE EXECUTIVE ENGINEER & SENIOR MANAGER (ELECTRICAL)-I PALAKKAD PROJECT ZONE, IIT CAMPUS KANJIKODE WEST, PALAKKAD - 678 623	
No.23(5)/E/EE&SM(E)-I/PPZ/2022/१६	Dated: २३/०२/२०२२	

To  
The Project Manager,  
M/s Shapoorji Pallonji and Company Private Limited,  
C/o IIT Palakkad Permanent Campus,  
Malam pusha Road, Near Gramalakshmi Mudralayam,  
Puduserry Villeg, 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 Puduserry Village, Kanjikode West, District Palakkad, Kerala.

Agt. No. 02/CE&ED/EE&SM(C)-I/PPZ/2019-20.

Subject: Submission of Technical Data Sheets of Copper pipe for HVAC, Pre insulated spiral ducts & Pre insulated chilled water pipes-For approval-Reg.  
Ref 1: SPCL Letter No. SPCPL/CHN/IIT-PKD-IA/CPWD/2020-21/648 Dt: 19/02/2022  
Ref 2: SPCL Letter No. SPCPL/CHN/IIT-PKD-IA/CPWD/2020-21/651 Dt: 21/02/2022  
Sir,  
With reference to above subject, the details of following items are scrutinized and hereby approved for the work at IIT Palakkad Project subject to agreement conditions.

SL NO	ITEM DESCRIPTION	APPROVED MAKE(S)
1	Copper pipe (for HVAC-VRF & Split AC)	Totaline, Uniflow Copper Tubes
2	Pre insulated spiral ducts	M/s Universal Industries
3	Pre insulated chilled water pipes	M/s Universal Industries

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

Copy to :-  
1. The Executive Engineer & SM(C)-I, PPZ, CPWD, Palakkad.  
2. The Executive Engineer & SM(C)-II, PPZ, CPWD, Palakkad.  
3. All AE(E)s, C/o EE & SM(E)-I, PPZ, CPWD, Palakkad.

Executive Engineer & Senior Manager (E) - I

Page 1 of 1,

**CIPET  
TEST CERTIFICATE**

सिपेट : इंस्टिट्यूट ऑफ प्लास्टिक्स टेक्नोलॉजी  
(मानव एवं जल संसाधन, नगर विकास)

CIPET : INSTITUTE OF PLASTICS TECHNOLOGY  
(Ministry of Chemicals & Fertilizers, Govt. of India)

परीक्षण रिपोर्ट / TEST REPORT

रिपोर्ट सं / REPORT NO. : 69320

दिनांक / Date : 11-05-2022

Test Duration: 27-04-2022 To 11-05-2022

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 <sup>3</sup>	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

\*\*\*\*End Of Report\*\*\*\*

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 [info@sudindia.com](mailto:info@sudindia.com)

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

*Manu Varkey*



Head of Certification Body  
of TÜV SÜD South Asia Private Limited,  
Mumbai



TÜV SÜD South Asia Pvt. Ltd. • TÜV SÜD Hubs: Sakri Naka • Andheri (East) • Mumbai - 400072 • Maharashtra • India

**For Enquires Contact :**  
E-Mail : [sales@universalac.in](mailto:sales@universalac.in)  
[factory@universalac.in](mailto:factory@universalac.in)  
Chennai : 93840 59697  
Hyderabad : 98403 98484  
Bangalore : 98410 16272  
Cochin : 73056 91444

**Factory : DP-58, 1st Main Road, Sidco  
Industrial Estate, Kattur,  
Thirumullaivoyal, Chennai - 600 062**