*Zero defect manufacturing process


Product Catalogue

## THE JOURNEY

2019

- Launched the brand's biggest manufacturing unit in Jobner, Rajasthan.
- Company successfully got listed on BSE and NSE.

2017

- Prince Pipes became a Public Limited Company.
- Economic Times Polymers Award (Excellence in

Plastics) for excellence in building and construction
(plumbing) in the large enterprises category.

2015

- Mr. Jayant Chheda received the "Life time Achievement Award" at Vinyl India Conference.
- "IMEA Award" for Haridwar factory by Frost \& Sullivan.

2012


Prince Pipes acquired "Trubore"- a renowned brand of southern India from Chemplast Sanmar Group alongwith their two manufacturing units at Kolhapur
\& Chennai.

2008 $\qquad$
Manufacturing unit at Haridwar (Uttarakhand) was established to cater to the increasing demand for

Prince Pipes products.

2000
Manufacturing unit at Dadra (Silvassa - D \& N.H) wasestablished to augment the pipe manufacturing capacity by setting up a new extrusion unit.

1995
Manufacturing unit at Athal (Silvassa-D \& N.H) was established to set-up a large scale Injection Moulding Unit which marked the beginning for Prince Pipes to be one of the market leaders in

PVC Fittings.


## 2014

Prince Pipes received "Asia's Most Promising Brand Award" by World Consulting and Research Corporation Delhi.

## 2010

- Winner of Best SME "Emerging India Awards 2010" by ICICI Bank, CNBC TV 18 \& CRISIL.
- Winner of "Outstanding Quality Contribution In Pipes Sector" by Bloomberg EPC world.


## 2005

Prince Pipes achieved the ` 100 Crore benchmark.

## 1998

ISO Certification earned by ensuring compliance to every step of the quality management system.

1987

- Mr. Jayant Chheda commenced manufacturing unit of PVC Products.
- 1st PVC Fittings Manufacturing Unit initiated to provide total piping solutions.


## COMPANY OVERVIEW

## One of India's largest integrated piping solutions



## PRODUCT

COLLABORATION

## Lubrizol

World's largest manufacturers and also


## Celebrating the unsung heroes with the world's first plumber song

Plumbers are an integral part of our industry and therefore, deserve recognition for the same. So, we at Prince, decided to pay a special tribute to our plumber friends we fondly refer to as 'Mitra'.

## Therefore, the first Plumber Anthem ever -

## Tiji lear le bact karo,

 hum ton plumber kain...The song first originally released on the occasion of World Plumbing Day (2018) in Hindi, got an overwhelming response the moment it went online. The fact that it instantly became a popular caller tune in the plumber community made it even more special. And this year, it's touching many more plumbers across the nation with its various regional versions. We hope this Zero Defect chain keeps growing with every passing year.


## Manufacturing Units

State-of-the-art manufacturing units producing piping systems


Haridwar
(Uttarakhand) Year of Est. 2008

rgemena
Jaipur
(Rajasthan) Year of Est. 2019


## Index



## PLUMBING



## FlowGuardeplus |5 Yeans

## WORLD'S NO.1* CPVC



## Overview

Invented in 1959, used all over the world, established as a trusted product and now brought to you by Prince Pipes, FlowGuard Plus CPVC plumbing systems are built to last for generations. Designed for a service life of 50 years, these CPVC pipes and fittings can withstand temperatures up to $93^{\circ} \mathrm{C}$ and are ideal for hot and cold water applications. FlowGuard Plus advantage means low bacterial growth and therefore, safe and hygienic water. It is fire retardant and does not support combustion. Moreover, it has high tensile strength, $25 \%$ better pressure bearing capacity and unparalleled UV resistance.

## Product range

- Pipes: 15 to 250 mm ( $1 / 2$ to 10 inch) - Fittings: 15 to 150 mm ( $1 / 2$ to 6 inch)


## Standards

| Pipes |  |  |  | Fittings |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Size (mm) | Class | Standard | End Connection | Size (mm) | Class | Standard | End Connection |
| 15 to 50 | SDR 11 | IS 15778 | Solvent Cement Joint | 15 to 50 | SDR 11 | ASTM D 2846 | - Solvent Cement Sockets Joint. <br> - For transition joints, fittings with plastic threads \& metal threaded inserts. |
| 15 to 50 | SDR 13.5 | IS 15778 |  | 65 to 100 | SCH 80 | ASTM F 439 |  |
| 65 to 250 | SCH - 40 | ASTM F 441 |  | 150 | SCH 40 | ASTM F 438 |  |
| 65 to 250 | SCH - 80 | ASTM F 441 |  | - | - | - |  |



## Dimensions

| Nominal Bore |  | Outside <br> Diameter |  | SDR-11 |  |  |  | SDR-13.5 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Wall | kness | Workin | ressure | Wall | kness | Workin | ressure |
|  |  |  |  | Min | Max | Min | Max | At $27^{\circ} \mathrm{C}$ | At $82^{\circ} \mathrm{C}$ | Min | Max | At $27^{\circ} \mathrm{C}$ | At $82^{\circ} \mathrm{C}$ |
| (mm) | (inch) | (mm) | (mm) | (mm) | (mm) | $\left(\mathrm{Kg} / \mathrm{cm}^{2}\right)$ | $\left(\mathrm{Kg} / \mathrm{cm}^{2}\right)$ | (mm) | (mm) | ( $\mathrm{Kg} / \mathrm{cm}^{2}$ ) | $\left(\mathrm{Kg} / \mathrm{cm}^{2}\right)$ |
| 15 | 1/2 | 15.80 | 16.00 | 1.70* | 2.20* | 28.14 | 6.93 | 1.40* | 1.90\# | 22.22 | 5.60 |
| 20 | 3/4 | 22.10 | 22.30 | 2.00 | 2.50 | 28.14 | 6.93 | 1.70 | 2.20 | 22.22 | 5.60 |
| 25 | 1 | 28.50 | 28.70 | 2.60 | 3.10 | 28.14 | 6.93 | 2.10 | 2.60 | 22.22 | 5.60 |
| 32 | $11 / 4$ | 34.80 | 35.00 | 3.20 | 3.70 | 28.14 | 6.93 | 2.60 | 3.10 | 22.22 | 5.60 |
| 40 | $11 / 2$ | 41.20 | 41.40 | 3.80 | 4.30 | 28.14 | 6.93 | 3.10 | 3.60 | 22.22 | 5.60 |
| 50 | 2 | 53.90 | 54.10 | 4.90 | 5.50 | 28.14 | 6.93 | 4.00 | 4.60 | 22.22 | 5.60 |
| Nominal Bore |  | Outside Diameter |  | Schedule 40 |  |  |  | Schedule 80 |  |  |  |
|  |  | Wall Thickness | Working Pressure |  | Wall Thickness |  | Working Pressure |  |
|  |  |  |  |  |  | Min | Max | At $23^{\circ} \mathrm{C}$ | At $82^{\circ} \mathrm{C}$ | Min | Max | At $23^{\circ} \mathrm{C}$ | At $82^{\circ} \mathrm{C}$ |
| (mm) | (inch) |  |  | (mm) | (mm) | ( $\mathrm{Kg} / \mathrm{cm}^{2}$ ) | $\left(\mathrm{Kg} / \mathrm{cm}^{2}\right)$ | (mm) | (mm) | (Kg/cm ${ }^{\text {2 }}$ ) | (Kg/cm ${ }^{\text {2 }}$ ) |
| 65 | $21 / 2$ | 73.00 | -0.18) | 5.16 | 5.77 | 21.10 | 5.30 | 7.01 | 7.85 | 29.57 | 7.34 |
| 80 | 3 | 88.90 | -0.20) | 5.49 | 6.15 | 18.25 | 4.58 | 7.62 | 8.53 | 26.00 | 6.32 |
| 100 | 4 | 114.30 | (-0.23) | 6.02 | 6.73 | 15.49 | 3.87 | 8.56 | 9.58 | 22.53 | 5.60 |
| 150 | 6 | 168.30 | ( - 0.28) | 7.11 | 7.97 | 12.64 | 3.16 | 10.97 | 12.29 | 19.68 | 4.89 |
| 200 | 8 | 219.10 | - 0.38) | 8.18 | 9.17 | 11.21 | 2.85 | 12.70 | 14.22 | 17.54 | 4.18 |
| 250 | 10 | 273.10 | (-0.38) | 9.27 | 10.39 | 9.89 | 2.44 | 15.06 | 16.86 | 16.21 | 3.87 |

FlowGuard Plus CPVC has 25\% higher pressure bearing capacity at higher temperatures
Note: • Dimensions with '\#' are not a function of SDR

- Fittings are suitable for corresponding pipe pressure ratings


## EASYFIT <br> UPVC Plumbing Systems

## KEEPS YOUR DRINKING WATER

 LEAD-FREE \& YOU, TENSION-FREE.

Pipes as per:

## Product range

UPVC Plumbing Systems

- Pipes: 15 to 250 mm ( $1 / 2$ to 10 inch) - Fittings: 15 to 150 mm ( $1 / 2$ to 6 inch)


## Standards

| Pipes |  |  |  | Fittings |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Size (mm) | Class | Standard | End Connection | Size (mm) | Class | Standard | End Connection |
| 15 to 250 | SCH-40 | ASTM D-1785 | Solvent Cement Joint and Threaded Joint | 15 to 150 | SCH-40 | ASTM D 2466 | - Solvent Cement Socket Joint. <br> - For transition joints, |
| 15 to 250 | SCH - 80 | ASTM D-1785 |  | 15 to 100 | SCH - 80 | ASTM D 2467 | fittings with plastic threads \& metal threaded inserts are available. |



## Dimensions

Dimensional \& working pressure details for Easyfit UPVC Pipes
(Solvent Weld) at $23^{\circ} \mathrm{C}$

| Nominal Bore |  | Outside <br> Diameter | Sch-40 |  | Sch-80 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Wall <br> Thickness | Working Pressure | Wall <br> Thickness | Working Pressure |
| (mm) | (inch) |  | (mm) | (mm) | (Kg/cm²) | (mm) | (Kg/cm²) |
| 15 | 1/2 | 21.34 +/- 0.10 | $2.77+0.51$ | 42.40 | $3.73+0.51$ | 59.75 |
| 20 | 3/4 | $26.67+/-0.10$ | $2.87+0.51$ | 33.75 | $3.91+0.51$ | 48.50 |
| 25 | 1 | $33.40+/-0.13$ | $3.38+0.51$ | 31.60 | $4.55+0.53$ | 44.25 |
| 32 | $11 / 4$ | $42.16+/-0.13$ | $3.56+0.51$ | 26.00 | $4.85+0.58$ | 36.60 |
| 40 | $11 / 2$ | $48.26+/-0.15$ | $3.68+0.51$ | 23.25 | $5.08+0.61$ | 33.00 |
| 50 | 2 | $60.32+/-0.15$ | $3.91+0.51$ | 19.65 | $5.54+0.66$ | 28.10 |
| 65 | $2^{11 / 2}$ | $73.02+/-0.18$ | $5.16+0.61$ | 21.10 | $7.01+0.84$ | 29.55 |
| 80 | 3 | $88.90+/-0.20$ | $5.49+0.66$ | 18.25 | $7.62+0.91$ | 26.00 |
| 100 | 4 | $114.30+/-0.23$ | $6.02+0.71$ | 15.50 | $8.56+1.02$ | 22.50 |
| 150 | 6 | $168.28+/-0.28$ | $7.11+0.86$ | 12.60 | $10.97+1.32$ | 19.65 |
| 200 | 8 | $219.10+/-0.38$ | $8.18+0.99$ | 11.20 | $12.70+1.52$ | 17.50 |
| 250 | 10 | $273.00+/-0.38$ | $9.27+1.12$ | 9.90 | $15.06+1.80$ | 16.20 |

## Features and benefits

- Proven performance for water temperature from $5^{\circ} \mathrm{C}$ to $60^{\circ} \mathrm{C}$
- Lead-free material ensures safe drinking water
- Self-extinguishing. Does not support combustion
- Fast and easy installation. Saves labour

Working pressure details for Easyfit UPVC
Fittings (Solvent Weld) at $23^{\circ} \mathrm{C}$

| Nominal Bore | Sch-40 | Sch-80 |  |
| :---: | :---: | :---: | :---: |
|  |  | Working <br> Pressure | Working <br> Pressure |
| $(\mathrm{mm})$ | (inch) | $\left({\left.\mathrm{Kg} / \mathrm{cm}^{2}\right)}^{\left(\mathrm{Kg} / \mathrm{cm}^{2}\right)}\right.$ |  |
| 15 | $1 / 2$ | 25.30 | 35.85 |
| 20 | $3 / 4$ | 20.25 | 29.10 |
| 25 | 1 | 18.95 | 26.55 |
| 32 | $11 / 4$ | 15.60 | 21.95 |
| 40 | $11 / 2$ | 13.95 | 19.80 |
| 50 | 2 | 11.75 | 16.85 |
| 65 | $21 / 2$ | -- | 17.70 |
| 80 | 3 | -- | 15.60 |
| 100 | 4 | -- | 13.50 |
| 150 | 6 | 7.50 | -- |

Working pressure for Metal Insert
Fittings is $15 \mathrm{Kg} / \mathrm{cm}^{2}$

[^0]

## GREENFIT ${ }^{\circ}$

## PP-R Plumbing Systems

## SUPERIOR PERFORMANCE IN EXTREME TEMPERATURES

## Product range

- Pipes: 20 to 160 mm Single layer \& Triple layer • Fittings: 20 to 160 mm
- Coil Pipe: 20 \& 25 mm
- Submersible Delivery Pipe: 90 \& 110 mm


## Standards

| Pipes |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Size (mm) | Working Pressure ( $\mathrm{Kg} / \mathrm{cm}^{2}$ ) | Standard | Colour |  | End Connection |
| 20 to 160 | 10, 16 \& 20 | IS: 15801 | Single layer pipes - Green <br> Triple layer pipe - Outer layer in Green Inner layer in white Thermex - Black |  | Poly-fusion welding joint |
| Fittings |  |  |  |  |  |
| Size (mm) | Working Pressure (Kg/cm ${ }^{2}$ ) | Standard | Colour |  | Onnection |
| 20 to 160 | 20 \& 25 | DIN:16962 | Green | - Socket ends <br> - For transition j | able for fusion welding. ts, fittings with threaded al inserts |



Indoor \& outdoor installations of hot \& cold water piping systems in


Heating system inside buildings including floor, wall \& radiator heating


## Dimensions

## Features and benefits

- Proven hot \& cold water performance from $-20^{\circ} \mathrm{C}$ to $95^{\circ} \mathrm{C}$
- No scaling. Can withstand higher 'pH' values
- UV resistant triple layered pipes are suitable for outdoor installations that are exposed to direct sunlight
- Good chemical resistance - suitable for most industrial liquids
- Heat-fusion jointing results in homogenous plastic system ensuring leak-proof joints
- Very less coefficient of friction, ensures high flow properties, reduce pumping cost
- Antimicrobial inside layer of 3 layered pipe adds to safety against bacterial growth ensuring safe drinking water
- Specially formulated thermex pipes reduce linear expansion / contraction of pipes due to temperature variance, ensuring suitability for outdoor application

Application note: Insulation is necessary at Sub Zero Temperature.

| Nominal Size (Outside Diameter) | Wall Thickness |  |  |
| :---: | :---: | :---: | :---: |
|  | SDR 11 (PN 10) | SDR 7.4 (PN 16) | SDR 6 (PN 20) |
| (mm) | (mm) | (mm) | (mm) |
| 20 | 1.90 | 2.80 | 3.40 |
| 25 | 2.30 | 3.50 | 4.20 |
| 32 | 2.90 | 4.40 | 5.40 |
| 40 | 3.70 | 5.50 | 6.70 |
| 50 | 4.60 | 6.90 | 8.30 |
| 63 | 5.80 | 8.60 | 10.50 |
| 75 | 6.80 | 10.30 | 12.50 |
| 90 | 8.20 | 12.30 | 15.00 |
| 110 | 10.00 | 15.10 | 18.30 |
| 160 | 14.60 | 21.90 | 26.60 |



## 見GREENFIT <br> PP-R Compressed Air Piping Systems

## A ZERO DEFECT SOLUTION FOR COMPRESSED AIR APPLICATIONS



PP-R Compressed Air
Piping Systems

## Overview

Compressed air, one of the major sources of industrial energy is being used increasingly in manufacturing and process industries. Modern process equipment, pneumatic controls and instruments need clean and uncontaminated air supply for their smooth functioning. So, what we need is a new-age solution for compressed air and vacuum lines. This piping is given international colour code "Blue Colour" for air transmission. Blue Greenfit industrial piping systems are made of Polypropylene Random Copolymer suitable for air compressors, Instrumentation air, Vacuum \& Nitrogen supply. Blue Greenfit is at par with global industry standards and is ideal for pneumatic applications.

## Product range

- Pipes: 20 to 160 mm as per PN 10 \& PN 16 PN 20 - Fittings: 20 to 160 mm as per PN 20 \& PN25


## Standards

| Pipes |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Size (mm) | Working Pressure $\left(\mathrm{Kg} / \mathrm{cm}^{2}\right)$ | Standard | Colour |  | End Connection |
| 20 to 160 | 10, 16 \& 20 | IS: 15801 | Triple layer pipe - Outer layer in Blue Inner layer in White |  | Poly-fusion welding joint |
| Fittings |  |  |  |  |  |
| Size (mm) | Working Pressure $\left(\mathrm{Kg} / \mathrm{cm}^{2}\right)$ | Standard | Colour | End Connection |  |
| 20 to 160 | 20 \& 25 | DIN:16962 | Blue | Socket ends suitable for poly-fusion welding. For transition joints, fittings with threaded metal inserts. |  |



SECONDARY USAGES

- Instrument Air
- Nitrogen Air
- Vacuum Piping


## Dimensions

## Features and benefits

- Can withstand operating temperatures from $-20^{\circ} \mathrm{C}$ to $95^{\circ} \mathrm{C}$
- UV resistant triple layered pipes are suitable for outdoor installations that are exposed to direct sunlight
- Heat-fusion jointing results in homogenous plastic system ensuring leak-proof joints
- These joints are better than the conventional metal and aluminium joints
- Smooth inner surface, ensuring least friction for the flowing air
- Negligible creation of moisture leading to corrosion free pipes
- Low thermal conductivity

Application note: Insulation is necessary at Sub Zero Temperature.

| Nominal Size <br> (Outside Diameter) | Wall Thickness |  |  |
| :---: | :---: | :---: | :---: |
|  | SDR 11 (PN 10) | SDR 7.4 (PN 16) | SDR 6 (PN 20) |
| 20 | $(\mathbf{m m})$ | $(\mathbf{m m})$ | (mm) |
| 25 | 1.90 | 2.80 | 3.40 |
| 32 | 2.30 | 3.50 | 4.20 |
| 40 | 2.90 | 4.40 | 5.40 |
| 50 | 3.70 | 5.50 | 6.70 |
| 63 | 4.60 | 6.90 | 8.30 |
| 75 | 5.80 | 8.60 | 10.50 |
| 90 | 6.80 | 10.30 | 12.50 |
| 110 | 8.20 | 10.30 | 15.00 |
| 160 | 14.60 | 15.10 | 18.30 |
|  | 21.90 | 26.60 |  |



## EASYFITRE <br> Reclaim Piping Systems

## WHAT WE DRAIN IS

HOW MUCH WE NEED.
 ASTM D 1785 (SCH 40) $\overline{\text { ASTM D } 1785 \text { (SCH 80) }}$

## Overview

These pipes are specially designed to divert wastewater generated from bathtubs, shower drains, washing machines and kitchen sinks etc. into a system where it can be recycled to replenish depleting water resources. Cost effective, easy to install and UV + Fire resistant, these pipes can be easily identified by their purple color.

## Product range

- Pipes: 15 to 250 mm ( $1 / 2$ to 10 inch) - Fittings: 15 to 150 mm ( $1 / 2$ to 6 inch)


## Standards

| Pipes |  |  |  | Fittings |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Size (mm) | Class | Standard | End Connection | Size (mm) | Class | Standard | End Connection |
| 15 to 250 | SCH - 40 | ASTM D-1785 | Solvent Cement Joint and Threaded Joint | 15 to 150 | SCH - 40 | ASTM D 2466 | - Solvent Cement Socket Joint. <br> - For transition joints, |
| 15 to 250 | SCH - 80 | ASTM D-1785 |  | 15 to 100 | SCH-80 | ASTM D 2467 | fittings with plastic threads \& metal threaded inserts are available. |



Indoor and outdoor installations for recycled water transportation

Public utilities,
swimming pools \& industrial applications

## Features and benefits

- Proven performance for recycled water distribution
- Lead-free material
- Self-extinguishing. Does not support combustion
- Fast and easy installation. Saves labour

Working pressure details for Easyfit UPVC Fittings (Solvent Weld) at $23^{\circ} \mathrm{C}$

| Nominal Bore |  | Sch-40 | Sch-80 |
| :---: | :---: | :---: | :---: |
|  |  | Working Pressure | Working Pressure |
| (mm) | (inch) | $\left(\mathrm{Kg} / \mathrm{cm}^{2}\right)$ | $\left(\mathrm{Kg} / \mathrm{cm}^{2}\right)$ |
| 15 | 1/2 | 25.30 | 35.85 |
| 20 | 3/4 | 20.25 | 29.10 |
| 25 | 1 | 18.95 | 26.55 |
| 32 | $11 / 4$ | 15.60 | 21.95 |
| 40 | $11 / 2$ | 13.95 | 19.80 |
| 50 | 2 | 11.75 | 16.85 |
| 65 | 21/2 | -- | 17.70 |
| 80 | 3 | -- | 15.60 |
| 100 | 4 | -- | 13.50 |
| 150 | 6 | 7.50 | -- |

Working pressure for Metal Insert
Fittings is $15 \mathrm{Kg} / \mathrm{cm}^{2}$

[^1]
## SILENTFIT ${ }^{\circ}$

Low Noise SWR Piping Systems

A PREMIUM DRAINAGE SYSTEM THAT SILENTLY DOES ITS JOB


Low Noise SWR Piping Systems

## Overview

With inevitably noisy urban outdoors, it becomes important to ensure silence and peace of mind indoors. Introducing Prince Silentfit premium noise insulated drainage piping systems. Made of three layers - the outer and inner layers are made of UPVC material while the middle layer is made of specially formulated PVC serving as a noise insulator the result is silent operation with efficient drainage.

## Product range

## - Pipes:

- Rubber Ring Joint: 75, 110 \& 160 mm
- Solvent Joint: 40, 50, 63, 75, 110, 160 mm
- Fittings:
- Rubber Ring Joint: 75, 110 \& 160 mm
- Solvent Joint: 40, 50, 63, 75, 110, 160 mm


## Reference Standards

| Pipes |  |  | Fittings |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Size (mm) | Standard | End Connection | Size (mm) | Standard | End Connection |
| $\begin{gathered} 40,50,63 \\ 75,110,160 \end{gathered}$ | IS 13592 | Solvent \& Rubber Ring joint | 40 to 160 | IS 14735 | Solvent \& Rubber Ring joint |



Residential and Commercial buildings that require a high level of noise protection (hospitals, educational institutes, offices, business premises \& high-rise buildings etc.) Where high level of noise protection is required.

## Features and benefits

- Silent operation
- Compatible with other drainage products
- Sockets with rubber sealing rings allow for thermal expansion \& contraction of the pipeline
- The jointing and installation procedures are similar to a regular UPVC SWR piping system
- Self-extinguishing. Does not support combustion.
- Rubber sealing rings ensure firm insertion joints, zero leakage and prevent noise transmission
- Long life


## Dimensions

| Nominal Size (Outside Diameter) | Mean Outside Diameter |  | Wall Thickness |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Minimum | Maximum | Minimum | Maximum |
| (mm) | (mm) | (mm) | (mm) | (mm) |
| 40 | 40.00 | 40.20 | 5.30 | 5.50 |
| 50 | 50.00 | 50.20 | 5.30 | 5.50 |
| 63 | 63.00 | 63.30 | 5.30 | 5.50 |
| 75 | 75.00 | 75.30 | 5.30 | 5.50 |
| 110 | 110.00 | 110.30 | 5.30 | 5.50 |
| 160 | 160.00 | 160.40 | 5.30 | 5.50 |



## ULTRAFIT ${ }^{\circ}$

SWR Systems
With World Class Seals

## LEAK-PROOF SEWAGE FOR SEEPAGE-PROOF STRUCTURES.



# ULTRAFIT 

SWR Systems
with world class seals

## Product range

Pipes
40 to 160 mm nominal diameter.

- Fittings:
- Rubber Ring Joint: 75, 90, 110 \& 160 mm
- Solvent Joint: 40 to 160 mm


## Standards

| Pipes |  |  |  | Fittings |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Size (mm) | Standard | Type | End Connection | Size (mm) | Standard | End Connection |
| 40 to 160 | IS 13592 | Type A <br> For ventilation pipe work, rain water discharge and harvesting. | Rubber Ring \& Solvent Joint | $\begin{gathered} 75,90,110 \\ 160 \end{gathered}$ | IS 14735 | Rubber Ring Joint |
|  |  | Type B <br> For soil and waste discharge system. |  | 40 to 160 |  | Solvent Joint |



Inside \& outside building drainage systems including ventilation

## Features and benefits

- Lighter but strong
- Compatible with other drainage products
- Easy to install with low assembly force
- Smooth bore
- Cost-efficient
- World-class seals ensure long term sealing performance against leakage.


## AERATOR

SOLVENT JOINT । RUBBER RING JOINT FOR SINGLE STACK SYSTEM


## Technical details

| Nominal Size (Outside Diameter) | Mean Outside Diameter |  | Wall Thickness |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Type A |  | Type B |  |
|  | Minimum | Maximum | Minimum | Maximum | Minimum | Maximum |
| (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |
| 40 | 40.00 | 40.30 | 1.80 | 2.20 | 3.20 | 3.80 |
| 50 | 50.00 | 50.30 | 1.80 | 2.20 | 3.20 | 3.80 |
| 63 | 63.00 | 63.30 | 1.80 | 2.20 | 3.20 | 3.80 |
| 75 | 75.00 | 75.30 | 1.80 | 2.20 | 3.20 | 3.80 |
| 90 | 90.00 | 90.30 | 1.90 | 2.30 | 3.20 | 3.80 |
| 110 | 110.00 | 110.40 | 2.20 | 2.70 | 3.20 | 3.80 |
| 160 | 160.00 | 160.50 | 3.20 | 3.80 | 4.00 | 4.60 |

# RAINFIT 

Roofwater Systems

## EFFICIENT FOR RAIN WATER COLLECTION AND CONVEYANCE



Roofwater Systems

## Overview

Rainfit Roofwater Systems are broadly used for collection and conveyance of rainwater. These specifically include storage in tanks and pits, recharging borewells, shafts and wells; and augmenting the underground water table through a proper mechanism to percolate soil.

## Product range

## - Pipes:

- Half Round Pipes (uPVC): 140, 180, 250 mm
- Downtake Pipes (uPVC): 75, 110, 160 mm
- Fittings: (PP)

75, 110, 140, 160, 180, 250 mm

## Standards

| Pipes |  | Fittings |  |
| :---: | :---: | :---: | :---: |
| Size (mm) | End Connection | Size (mm) | End Connection |
| Half Round Pipes - 140, 180, 250 Downtake Pipes - 75, 110, 160 | - Elastomeric rubber seal with clamps for half round pipes. <br> - Solvent Joint \& Rubber ring Joint for Down take pipes | 75, 110, 140, 160, 180, 250 | Elastomeric rubber seal with clamps |



## Features and benefits

- Advanced system design ensures effective collection of roof water and efficient discharge
- High mechanical and chemical strength can withstand aggressive environment
- Light weight, easy to handle, store and transport
- Easy to install Saves cost
- Long service life
- UV stabilized - can be installed in areas directly exposed to sunlight
- Smooth and glossy appearance gives it an attractive look




## FOAMFIT

Underground Drainage

Piping Systems

## LIGHT WEIGHT SOLUTION FOR LONG LASTING DRAINAGE APPLICATION



## Overview

An advanced drainage and sewerage solution, these multi-layer pipes are ideal for housing and government developments. While the outer and innermost layers give the pipe a great load bearing capacity, the middle layer provides firmness to the overall pipe structure. In short, better strength with a lighter weight as compared to solid wall PVC pipes.


## Product range

- Pipes: 110, 160, 200, 250, 315 mm
- Fittings: 75, 110 \& 160 mm


## Standards

| Pipes |  |  | Fittings |  |
| :---: | :---: | :---: | :---: | :---: |
| Size (mm) | Standard | End Connection | Size (mm) | End Connection |
| SN 2 - 160, 200, 250, 315 <br> SN 4 - 110, 160, 200, 250, 315 <br> SN 8 -110, 160, 200, 250, 315 | $\begin{gathered} \text { IS } 16098 \\ \text { (part 1) } \end{gathered}$ | Elastomeric Sealing Ring Joint \& Solvent Joint | 75,110 \& 160 | Elastomeric Sealing Ring Joint \& Solvent Joint |



## Features and benefits

- Lighter than solid wall UPVC pipe yet strong
- Easy for underground installations
- Available in long length of 6 meter so minimum joints ensuring less chances of leakage
- Compatible with other drainage \& sewerage products
- Long life due to improved strength
- Cost saving
- Easy to install
- Anti rodent


## Dimensions

| Nominal Size (Outside Diameter) | Mean Outside Diameter |  | Wall Thickness |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | SN2 (SDR 51) |  | SN4 (SDR 41) |  | SN8 (SDR 34) |  |
|  | Minimum | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum | Maximum |
| (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |
| 110 | 110.00 | 110.40 | - | - | 2.80 | 3.30 | 3.20 | 3.70 |
| 160 | 160.00 | 160.50 | 3.20 | 3.70 | 4.00 | 4.60 | 4.70 | 5.40 |
| 200 | 200.00 | 200.60 | 3.90 | 4.50 | 4.90 | 5.60 | 5.90 | 6.70 |
| 250 | 250.00 | 250.80 | 4.90 | 5.60 | 6.20 | 7.00 | 7.30 | 8.30 |
| 315 | 315.00 | 316.00 | 6.20 | 7.00 | 7.70 | 8.70 | 9.20 | 10.40 |



## DRAINFIT"'

UPVC Underground Drainage Piping Systems

FOR UNDERGROUND DRAINAGE APPLICATION


UPVC Underground Drainage Piping Systems

## Overview

Drainfit Pipes are noticeably lighter and less expensive than existing PVC pipes/ concrete pipes. These pipes are interchangeable with solid wall pipes and are compatible with regular PVC fittings. We have introduced rubber and solvent fittings to offer a complete range of drainage piping systems.

## Product range

- Pipes: 63 to 400 mm
- Fittings: 75, 110 \& 160 mm
- Inspection Chamber:
- Blanking Plug: 110 mm
- Straight Through: $315 \times 110 \mathrm{~mm}$
- Left or Right $90^{\circ}$ Bend: $315 \times 110 \mathrm{~mm}$
- Left Hand $90^{\circ}$ Junction: $315 \times 110 \mathrm{~mm}$
- Right Hand $90^{\circ}$ Junction: $315 \times 110 \mathrm{~mm}$
- Left Hand $45^{\circ}$ \& $90^{\circ}$ Junction: $315 \times 110$ mm
- Right Hand $45^{\circ}$ \& $90^{\circ}$ Junction (Moulded): $315 \times 110 \mathrm{~mm}$
- Riser (200mm Long): 315 mm


## Standards

| Pipes |  | Fittings |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Size (mm) | Standard | End Connection | Size (mm) | Standard | End Connection |
| SN 2-160 to 400 |  | Elastomeric Sealing |  |  |  |
| SN 4-125 to 400 | IS 15328 | Ring \& Solvent Joint | $75,110 \& 160$ | EN-1401-1 | Elastomeric Sealing |
| SN 8-63 to 400 |  |  |  |  |  |



## Features and benefits

- Leak proof
- Long life
- Anti-rodent
- Easy transportation, light in weight and easy in wet condition
- Fast and easy installation, even in wet conditions
- Resistance to abrasion, smooth bore pipes reduces the risk of blockage
- Good Impact resistance


| Inspection Chamber |  |  |
| :--- | :--- | :---: |
| Size <br> $(\mathbf{m m})$ | Combination | Invert Depth <br> $(\mathbf{m m})$ |
| 315 | 1. Base | 195 |
|  | 2. Base with 01 no. riser | 355 |
|  | 3. Base with 02 no. riser | 515 |
|  | 4. Riser with 03 no. riser | 675 |

## Dimensions

| Nominal Size (Outside Diameter) | Mean Outside Diameter |  | Wall Thickness |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | SN2 (SDR 51) |  | SN4 (SDR 41) |  | SN8 (SDR 34) |  |
|  | Minimum | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum | Maximum |
| (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |
| 63 | 63.00 | 63.30 | - | - | - | - | 2.70 | 3.10 |
| 75 | 75.00 | 75.30 | - | - | - | - | 2.80 | 3.30 |
| 90 | 90.00 | 90.30 | - | - | - | - | 2.90 | 3.40 |
| 110 | 110.00 | 110.40 | - | - | - | - | 3.20 | 3.70 |
| 125 | 125.00 | 125.40 | - | - | 3.20 | 3.70 | 3.70 | 4.40 |
| 160 | 160.00 | 160.50 | 3.20 | 3.70 | 4.00 | 4.60 | 4.70 | 5.40 |
| 200 | 200.00 | 200.60 | 3.90 | 4.50 | 4.90 | 5.60 | 5.90 | 6.70 |
| 250 | 250.00 | 250.80 | 4.90 | 5.60 | 6.20 | 7.00 | 7.30 | 8.30 |
| 315 | 315.00 | 316.00 | 6.20 | 7.00 | 7.70 | 8.70 | 9.20 | 10.40 |
| 400 | 400.00 | 401.20 | 7.90 | 8.90 | 9.80 | 11.00 | 11.70 | 13.10 |

# CORFIT 

Underground Double Wall Corrugated Pipes

A REVOLUTION TODAY FOR<br>A CLEANER INDIA TOMORROW



## Overview

Corfit DWC* Pipes and fittings are manufactured using HDPE polymer. These pipes are resistant to various types of gases \& chemicals which are generated due to putrefaction of various ingredients flowing in the system.
Corfit DWC* Pipes are manufactured as per IS 16098 (Part-2), have a smooth internal surface and corrugated external surface. The corrugated external surface provides greater stiffness, withstands soil movements \& takes higher loads (static \& dynamic), whereas the internal surface helps in smooth flow of sewerage.

## Product range

- Pipes: 100 to 1000 mm nominal diameter
- Fittings: 100 to 500 mm
- Inspection Chamber (PVC \& DWC End Connection): 600 \& 315 mm nominal diameter
- Manhole Chamber: $600 \times 500,600 \times 750,600 \times 1000 \& 600 \times 1250 \mathrm{~mm}$


## Standards

| Pipes |  |  |  | Fittings |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Size (mm) | Class | Standard | End Connection | Size (mm) | Standard | End Connection |
| 100 to 1000 | SN4 \& SN8 | IS 16098 - Part 2 | Rubber Ring Joint | 100 to 500 | - | Rubber Ring Joint |



## Features and benefits

- Easy to handle, transport and store
- Easy to install
- Superior performance than RCC Pipes
- Long life
- Available in long length of 6 meter so minimum joints ensuring less chances of leakage
- Corrosion \& abrasion resistant
- Anti-rodent material

Dimensions

| Pipe Sizes | Socket Length (min) |
| :---: | :---: |
| $(\mathbf{m m})$ | 32 |
| 100 | 43 |
| 150 | 48 |
| 170 | 54 |
| 200 | 59 |
| 250 | 64 |
| 300 | 74 |
| 400 | 85 |
| 500 | 96 |
| 600 | 118 |
| 800 | 140 |
| 1000 |  |

*DWC - Double Wall Corrugated

Inspection Chamber


Note: Open \& closed side inlet is available in 600 mm . As per site requirement, the required size and side to be cut before installation.

## UNDERGROUND



## DURAFIT'

FRP Manhole \& Chamber Covers

CORROSION-FREE. SKID-FREE.


## Overview

Durafit FRP Manhole \& Chamber Covers with frames are light weight \& are superior to the conventional cast iron, ductile iron \& RCC covers. The covers are available in various standard sizes with load bearing capacity from 1.5 to 40 tons.

## Product range

## - Chamber Cover

- Circular: 315 mm
- Square: $10 \times 10,12 \times 12,18 \times 18$ inch
- Rectangular: $18 \times 24$ inch
- Gully Cover: 450, 500, 600 \& 900 mm


## - Manhole Covers

- Circular: $530,600 \& 900 \mathrm{~mm}$
- Square: $\quad 300,450,600,900,1000, \& 1200 \mathrm{~mm}$
- Rectangular: $600 \times 450,900 \times 450,900 \times 600 \& 1200 \times 900 \mathrm{~mm}$
- Recessed Manhole Cover: $450 \times 450$ \& $600 \times 600 \mathrm{~mm}$


## Standards

Durafit Manhole covers are tested as per BS EN 1241994 for gully tops \& manhole tops for vehicular \& pedestrian areas. Load \& permanent set testing for following classes:

| A-15kN (1.5 ton) | Areas which can only be used by pedestrians and pedal cyclists. |
| :---: | :--- |
| B-125kN (12.5 ton) | Carriage ways of roads (including pedestrian streets), hard shoulders and parking decks. |
| C-250kN (25.0 ton) | For gully tops installed in the area of kerbside channels of roads. |
| D-400kN (40.0 ton) | Carriage ways of roads (including pedestrian sheets), hard shoulders and <br> parking areas for all types of road vehicles |



Aircraft pavements

## Features and benefits

## 1. Protection against theft with greater safety options

- Zero theft value, reducing potential accident and maintenance cost further caused by thieves
- Locks are available as an option molded into the cover to improve security rate
- Surface anti-slip thread guarantees safe road conditions even in extreme weather


## 2. Light-weight

- $50 \%$ lighter compared to cast iron manhole covers
- Its lighter weight allows more loading per vehicle and convenient transportation thus saving freight
- Allows safer working conditions - a single worker is enough during installation without a risk of injury


## 3. Durable service life

- Anti-corrosion, well-sealed, prevents poisonous gases, water, dust and pests from leaking out
- Withstands temperatures from $-40^{\circ} \mathrm{C}$ to $200^{\circ} \mathrm{C}$


## 4. High Load Rating \& Strength

- Similar hard property as cast iron, while having an overwhelming advantage on stretch recovery
- Designed to meet and exceed A15/B125/C250/D400 load rating, according to En124:1994
- Less noise \& lower vibration transmissions


## AGRI



# AQUAFIT ${ }^{\circ}$ <br> Agri Pressure \& Non Pressure Piping Systems 

## AN EVERGREEN SOLUTION.



Pipes as per

## Overview

Pressure \& Non-Pressure Pipes are manufactured in accordance with $\mathrm{IS}: 4985$ covering a complete range from 20 mm to 400 mm . They are available in pressure rating $2.5 \mathrm{Kg} / \mathrm{cm}^{2}, 4 \mathrm{Kg} / \mathrm{cm}^{2}, 6 \mathrm{Kg} / \mathrm{cm}^{2}, 8 \mathrm{Kg} / \mathrm{cm}^{2}, 10 \mathrm{Kg} / \mathrm{cm}^{2}, 12.5 \mathrm{Kg} / \mathrm{cm}^{2} \& 16 \mathrm{Kg} / \mathrm{cm}^{2}$ as defined in IS:4985. The pipes are provided with plain socket and suitable for solvent cement jointing.
Their main application is in agriculture for water supply, drip irrigation \& sprinkler lines etc. as well as for drinking water distribution. However, these can also be used in cable ducting, ventilation pipe lines \& slurry lines etc.

They are available in light grey colour and nominal length of 6 mtrs.

## Product range

- Pipes: 20 to 400 mm • Fittings: 20 to 250 mm


## Standards

| Pipes |  |  | Fittings |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Size (mm) | Working Pressure <br> $\left(\mathrm{Kg} / \mathrm{cm}^{2}\right)$ | Standard | End Connection | Size (mm) | Working Pressure <br> $\left(\mathrm{Kg} / \mathrm{cm}^{2}\right)$ | Standard | End Connection |
| 20 to 400 | $2.5,4,6,8, \& 12.5$ | IS 4985 | Solvent Joint | 20 to 250 | $4,6,10 \& 16$ | IS 7834 | Solvent Joint, Threads <br> (For transition fittings) |



## Features and benefits

- Light weight, easy to transport, store, handle and install. Saves labour
- Smooth bore ensures higher flow compared to G.I pipes and fittings of the same size. No clogging. Saves operational cost
- Solvent cement joint therefore quick installation
- Corrosion resistance, UPVC is rustproof material therefore bore diameter remains constant, ensuring constant flow over a lifetime
- Long working life (if operated under normal/ recommended working conditions)
- Cost effective. Added value for your money


Dimensions for Aquafit pipes

| Nominal Outside Diameter (Nominal Size) | Mean Outside Diameter |  | Wall Thickness |  |  |  |  |  |  |  |  |  |  |  | Mean Socket Internal Diameter of Mid Point of Socket Length |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\begin{gathered} \text { Class } 1 \\ 0.25 \mathrm{MPa} \\ 2.5 \mathrm{Kg} / \mathrm{cm}^{2} \end{gathered}$ |  | $\begin{gathered} \text { Class } 2 \\ 0.40 \mathrm{MPa} \\ 4.0 \mathrm{Kg} / \mathrm{cm}^{2} \end{gathered}$ |  | $\begin{gathered} \text { Class } 3 \\ 0.60 \mathrm{MPa} \\ 6.0 \mathrm{Kg} / \mathrm{cm}^{2} \end{gathered}$ |  | $\begin{gathered} \text { Class } 4 \\ 0.80 \mathrm{MPa} \\ 8.0 \mathrm{Kg} / \mathrm{cm}^{2} \end{gathered}$ |  | $\begin{gathered} \text { Class } 5 \\ 1.00 \mathrm{MPa} \\ 10.0 \mathrm{Kg} / \mathrm{cm}^{2} \end{gathered}$ |  | Class 6 1.25 MPa $12.5 \mathrm{Kg} / \mathrm{cm}^{2}$ |  |  |  |
|  | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |
| 20 | 20.0 | 20.3 | - | - | - | - | - | - | - | - | 1.1 | 1.5 | 1.4 | 1.8 | 20.1 | 20.3 |
| 25 | 25.0 | 25.0 | - | - | - | - | - | - | 1.2 | 1.6 | 1.4 | 1.8 | 1.7 | 2.1 | 25.1 | 25.3 |
| 32 | 32.0 | 32.3 | - | - | - | - | - | - | 1.5 | 1.9 | 1.8 | 2.2 | 2.2 | 2.7 | 32.1 | 32.3 |
| 40 | 40.0 | 40.3 | - | - | - | - | 1.4 | 1.8 | 1.8 | 2.2 | 2.2 | 2.7 | 2.8 | 3.3 | 40.1 | 40.3 |
| 50 | 50.0 | 50.3 | - | - | - | - | 1.7 | 2.1 | 2.3 | 2.8 | 2.8 | 3.3 | 3.4 | 4.0 | 50.1 | 50.3 |
| 63 | 63.0 | 63.3 | - | - | 1.5 | 1.9 | 2.2 | 2.7 | 2.8 | 3.3 | 3.5 | 4.1 | 4.3 | 5.0 | 63.1 | 63.3 |
| 75 | 75.0 | 75.3 | - | - | 1.8 | 2.2 | 2.6 | 3.1 | 3.4 | 4.0 | 4.2 | 4.9 | 5.1 | 5.9 | 75.1 | 75.3 |
| 90 | 90.0 | 90.3 | 1.3 | 1.7 | 2.1 | 2.6 | 3.1 | 3.7 | 4.0 | 4.6 | 5.0 | 5.7 | 6.1 | 7.1 | 90.1 | 90.3 |
| 110 | 110.0 | 110.4 | 1.6 | 2.0 | 2.5 | 3.0 | 3.7 | 4.3 | 4.9 | 5.6 | 6.1 | 7.1 | 7.5 | 8.7 | 110.1 | 110.4 |
| 125 | 125.0 | 125.4 | 1.8 | 2.2 | 2.9 | 3.4 | 4.3 | 5.0 | 5.6 | 6.4 | 6.9 | 8.0 | 8.5 | 9.8 | 125.1 | 125.4 |
| 140 | 140.0 | 140.5 | 2.0 | 2.4 | 3.2 | 3.8 | 4.8 | 5.5 | 6.3 | 7.3 | 7.7 | 8.9 | 9.5 | 11.0 | 140.2 | 140.5 |
| 160 | 160.0 | 160.5 | 2.3 | 2.8 | 3.7 | 4.3 | 5.4 | 6.2 | 7.2 | 8.3 | 8.8 | 10.2 | 10.9 | 12.6 | 160.2 | 160.5 |
| 180 | 180.0 | 180.6 | 2.6 | 3.1 | 4.2 | 4.9 | 6.1 | 7.1 | 8.0 | 9.2 | 9.9 | 11.4 | 12.2 | 14.1 | 180.2 | 180.5 |
| 200 | 200.0 | 200.6 | 2.9 | 3.4 | 4.6 | 5.3 | 6.8 | 7.9 | 8.9 | 10.3 | 11.0 | 12.7 | 13.6 | 15.7 | 200.3 | 200.6 |
| 225 | 225.0 | 225.7 | 3.3 | 3.9 | 5.2 | 6.0 | 7.6 | 8.8 | 10.0 | 11.5 | 12.4 | 14.3 | 15.3 | 17.6 | 225.3 | 225.7 |
| 250 | 250.0 | 250.8 | 3.6 | 4.2 | 5.7 | 6.5 | 8.5 | 9.8 | 11.2 | 12.9 | 13.8 | 15.9 | 17.0 | 19.6 | 250.4 | 250.8 |
| 280 | 280.0 | 280.9 | 4.1 | 4.8 | 6.4 | 7.4 | 9.5 | 11.0 | 12.5 | 14.4 | 15.4 | 17.8 | 19.0 | 21.9 | 280.4 | 280.9 |
| 315 | 315.0 | 316.0 | 4.6 | 5.3 | 7.2 | 8.3 | 10.7 | 12.4 | 14.0 | 16.1 | 17.3 | 19.9 | 21.4 | 24.7 | 315.4 | 316.0 |
| 355 | 355.0 | 356.1 | 5.1 | 5.9 | 8.1 | 9.4 | 12.0 | 13.8 | 15.8 | 18.2 | 19.6 | 22.6 | 24.1 | 27.8 | 355.4 | 356.0 |
| 400 | 400.0 | 401.2 | 5.8 | 6.7 | 9.1 | 10.5 | 13.5 | 15.6 | 17.8 | 20.5 | 22.0 | 25.3 | 27.2 | 31.3 | 400.4 | 401.0 |

[^2]
## Properties of UPVC Pipes

## Mechanical

Tensile Strength
: $\quad 415-525 \mathrm{Kg} / \mathrm{cm}^{2}$
Compression Strength
: $550-910 \mathrm{Kg} / \mathrm{cm}^{2}$
Flexural Strength
: $\quad 680-1100 \mathrm{Kg} / \mathrm{cm}^{2}$
Izod Impact Strength
: $4-5 \mathrm{Kg} / \mathrm{cm}^{2}$
Shore Hardness
: D65-85

## Thermal

Co-efficient of Linear Expansion: $0.08 \mathrm{~mm} / \mathrm{M}^{\circ} \mathrm{C}$
Vicat Softening Temperature: $>78^{\circ} \mathrm{C}$
Max. Operating Temperature : $60^{\circ} \mathrm{C}$

## Standards, Quality Control and Testing

The manufacturing and testing is done for pipes in accordance with IS: 4985
All the above pipes, except non-pressure pipes are tested for potable water supplies in accordance with their relevant standards and as per the test methods given in IS: 12235

Hazen - William's Flow Co-efficient Comparison

| Pipe Material | PVC | A. C. | G. I. | C. I. |
| :---: | :---: | :---: | :---: | :---: |
| Flow Co-efficient | 150 | 130 | 110 | 100 |

## Pressure Rating vs Temperature Derating Factor

| Temp Deg (C ) | Derating factor |
| :---: | :---: |
| $0-25$ | 1 |
| 27 | 0.95 |
| 30 | 0.89 |
| 35 | 0.79 |
| 40 | 0.71 |
| 45 | 0.63 |
| 50 | 0.42 |
| 55 | 0.34 |
| 60 | 0.25 |

As the temperature of fluid flowing through installation increases, the pressure withstanding capacity of installation wall decreases. So to find out the pressure rating of PVC Pipes \& Fittings at required temperature, multiply, the pressure rating of Pipes \& Fittings by derating factor given in table.

## Example:

Rated pressure of installed system 10 Kg ,
Up to $25^{\circ} \mathrm{C}$, the system can stand 10 Kg pressure,
If Temperature is $40^{\circ} \mathrm{C}$, derating factor is 0.71 ,
Therefore $10 \times 0.71=7.1 \mathrm{Kg}$.
So, the system can withstand 7.1 Kg .

## SAFEFIT

## Borewell Systems

LIGHT WEIGHT. LOW MAINTENANCE. HIGH RESISTANCE.


Borewell Systems

## Overview

Designed to be used in borewell applications, these piping systems are made from a high-quality PVC compound that ensures they have high tensile strength, can withstand high impact and have minimum water friction. What makes them even more unique is the CIRCLIP locking system designed specially to withstand pressure during underground water extraction.

## Product range

## - Screen Pipes:

40 to 400 mm ( $1 \frac{1}{2 \prime \prime}$ to $16^{\prime \prime}$ )

- Casing Pipes:

40 to 300 mm ( $11 / 2^{\prime \prime}$ to $12^{\prime \prime}$ )

- Rising Main Pipes:

25 to 100 mm (1" to 4")

- Bell Form Pipes - V4:

25 \& $32 \mathrm{~mm}\left(1^{\prime \prime} \& 11 / 4^{\prime \prime}\right)$

## Standards

| Pipes |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Pipes | Type | Size (mm) | Standard | End Connection |
| Screen Pipes | Ribbed Screen | 40 to 400 (11/2" to 16") | IS 12818 | Threaded Joint |
|  | Plain Screen - CM | 200 to 400 ( $8^{\prime \prime}$ to 16") |  |  |
|  | Plain Screen - CS | 200 to 400 ( $8^{\prime \prime}$ to 16") |  |  |
| Casing Pipes | Casing Pipes - CM | 40 to 300 ( $11 / 2^{\prime \prime}$ to 12") |  |  |
|  | Casing Pipes - CS | 150 to 250 ( $6^{\prime \prime}$ to $10^{\prime \prime}$ ) |  |  |
|  | Casing Pipes - CD | 100 to 400 (4" to 10") |  |  |
| Rising Main Pipes | V4 - Pipes | 25 to 40 (1" to $\left.11 / 2^{\prime \prime}\right)$ |  |  |
|  | Medium, Standard | 25 to 100 (1" to 4") |  |  |
|  | Heavy Duty Pipes | 32 to 100 ( $11 / 4$ " to $4^{\prime \prime}$ ) |  |  |
| Bell Form Pipes | V4 | 25 \& 32 ( $1^{\prime \prime}$ \& 11/4") | - | - |



## Features and benefits

- Easy to transport, store, handle and install
- Saves labour \& installation cost
- Smooth bore ensures no clogging and higher flow compared to G.I. pipeline of the same size
- Bore diameter remains constant, ensuring constant flow over lifetime
- Superior resistance to most of the chemicals - no scaling makes the system almost maintenance-free
- Long life


## Dimensions of Medium Well Screen (RMS) \&

## Deep Well Screen (RDS) Pipes with Ribs / Ribbed Screen Pipes

| Nominal Diameter (DN) |  | Mean Outer Diameter of the Pipe (d) (mm) |  | Medium Well Screen (RMS) |  |  | Deep Well Screen (RDS) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Mean Outer Diameter over Connection, (d's') | Wall Thickness 'e (under ribs) (mm) |  | Mean Outer Diameter over Connection, (d's') | Wall Thickness,${ }^{\prime} e^{\prime}(\mathrm{mm})$ |  |
| mm | inches |  |  | Min | Max | Max | Min | Max | Max | Min | Max |
| 40.0 | $11 / 2$ | 52.00 | 52.20 | 56.00 | 3.50 | 4.00 | -- | -- | -- |
| 50.0 | 2 | 64.00 | 64.20 | 69.00 | 4.00 | 4.60 | -- | -- | -- |
| 80.0 | 3 | 92.00 | 92.30 | 98.00 | 4.00 | 4.60 | -- | -- | -- |
| 100.0 | 4 | 117.00 | 117.30 | 124.00 | 5.00 | 5.70 | 129.00 | 7.00 | 7.90 |
| 115.0 | $41 / 2$ | 129.00 | 129.30 | -- | -- | -- | 141.00 | 7.50 | 8.50 |
| 125.0 | 5 | 144.00 | 144.40 | 154.00 | 6.50 | 7.30 | 156.00 | 8.00 | 9.00 |
| 150.0 | 6 | 169.00 | 169.40 | 182.00 | 7.50 | 8.50 | 184.00 | 9.50 | 10.70 |
| 175.0 | 7 | 204.00 | 204.50 | 219.00 | 8.80 | 9.80 | 221.00 | 11.80 | 13.60 |
| 200.0 | 8 | 229.00 | 229.50 | 247.00 | 10.00 | 11.20 | 251.00 | 13.00 | 14.80 |
| 250.0 | 10 | 284.00 | 284.50 | 302.00 | 12.50 | 14.00 | 309.00 | 16.00 | 17.60 |
| 300.0 | 12 | 334.00 | 334.60 | 356.00 | 14.50 | 16.20 | 363.00 | 19.00 | 21.00 |
| 350.0 | 14 | 404.00 | 404.70 | 432.00 | 17.50 | 19.50 | 437.00 | 21.50 | 23.90 |
| 400.0 | 16 | 454.00 | 454.80 | 483.00 | 19.50 | 21.70 | 494.00 | 23.50 | 26.10 |

## Dimensions of Plain Medium Well Screen (PMS) \&

## Plain Deep Well Screen (PDS) Pipes

| Nominal Diameter (DN) |  | Mean Outer Diameter of the Pipe (d) $(\mathrm{mm})$ |  | Plain Medium Well Screen (PMS) |  |  | Plain Deep Well Screen (PDS) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Mean Outer Diameter over Connection, (d's') | Wall Thickness <br> ' $e^{\prime}$ (mm) |  | Outer Diameter at any point d'e' (mm) |  | Mean Outer Diameter over Connection, (d's') | Wall Thickness,${ }^{\prime} e^{\prime}(\mathrm{mm})$ |  |
| mm | inches |  |  | Min | Max | Max | Min | Max | Min | Max | Max | Min | Max |
| 200.0 | 8 | 225.00 | 225.50 | 243.00 | 10.00 | 11.20 | 224.50 | 225.80 | 247.00 | 13.00 | 14.80 |
| 250.0 | 10 | 280.0 | 280.50 | 298.00 | 12.50 | 14.00 | 279.40 | 280.80 | 304.00 | 16.00 | 17.60 |
| 300.0 | 12 | 330.00 | 330.60 | 352.00 | 14.50 | 16.20 | 329.30 | 331.00 | 359.00 | 19.00 | 21.00 |
| 350.0 | 14 | 400.0 | 400.70 | 428.00 | 17.50 | 19.50 | 399.20 | 401.20 | 433.00 | 21.50 | 23.90 |
| 400.0 | 16 | 450.00 | 450.80 | 479.00 | 19.50 | 21.70 | 449.10 | 451.30 | 490.00 | 23.50 | 26.10 |

Dimensions of Medium Well Casing (CM) \&
Shallow Well Casing (CS) Pipes

| Nominal Diameter (DN) |  | Mean Outer Diameter of the Pipe (d) $(\mathrm{mm})$ |  | Medium Well Casing (CM) Pipes |  |  | Shallow Well Casing (CS) Pipes |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Mean Outer Diameter over Connection, (d's') | Wall Thickness ' e ' (under ribs) (mm) |  | Mean Outer Diameter over Connection, (d's') | Wall Thickness, ' $e^{\prime}$ (mm) |  |
| mm | inches |  |  | Min | Max | Max | Min | Max | Max | Min | Max |
| 40.0 | $11 / 2$ | 48.00 | 48.20 | 52.00 | 3.50 | 4.00 | -- | -- | -- |
| 50.0 | 2 | 60.00 | 60.20 | 65.00 | 4.00 | 4.60 | -- | -- | -- |
| 80.0 | 3 | 88.00 | 88.30 | 94.00 | 4.00 | 4.60 | -- | -- | -- |
| 100.0 | 4 | 113.00 | 113.30 | 120.00 | 5.00 | 5.70 | -- | -- | -- |
| 125.0 | 5 | 140.00 | 140.40 | 150.00 | 6.50 | 7.30 | -- | -- | -- |
| 150.0 | 6 | 165.00 | 165.40 | 178.00 | 7.50 | 8.50 | 174.00 | 5.70 | 6.50 |
| 175.0 | 7 | 200.00 | 200.50 | 215.00 | 8.80 | 9.80 | 211.00 | 7.00 | 7.80 |
| 200.0 | 8 | 225.00 | 225.50 | 243.00 | 10.00 | 11.20 | 238.00 | 7.60 | 8.80 |
| 250.0 | 10 | 280.00 | 280.50 | 298.00 | 12.50 | 14.00 | 292.00 | 9.60 | 11.00 |
| 300.0 | 12 | 330.00 | 330.60 | 352.00 | 14.50 | 16.20 | -- | -- | -- |

Note: $32 \mathrm{~mm}\left(1 \frac{1}{4}{ }^{\prime \prime}\right)$ Nominal Diameter pipes are available on special request.

## Dimensions of Deep Well Casing (CD) Pipes

| Nominal Diameter (DN) |  | Mean Outer Diameter of the Pipe d 'em' (mm) |  | Outer Diameter at any point d'e' (mm) |  | Mean Outer Diameter over Connection, (d's') | Wall Thickness, ' e ' (mm) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| mm | inches | Min | Max | Min | Max | Max | Min | Max |
| 100.0 | 4 | 113.00 | 113.30 | 112.80 | 113.40 | 125.00 | 7.00 | 7.90 |
| 115.0 | $41 / 2$ | 125.00 | 125.30 | 124.90 | 125.40 | 137.00 | 7.50 | 8.50 |
| 125.0 | 5 | 140.00 | 140.40 | 139.70 | 140.50 | 152.00 | 8.00 | 9.00 |
| 150.0 | 6 | 165.00 | 165.40 | 164.60 | 165.60 | 180.00 | 9.50 | 10.70 |
| 175.0 | 7 | 200.00 | 200.50 | 199.60 | 200.60 | 217.00 | 11.80 | 13.60 |
| 200.0 | 8 | 225.00 | 225.50 | 224.50 | 225.80 | 247.00 | 13.00 | 14.80 |
| 250.0 | 10 | 280.00 | 280.50 | 279.40 | 280.80 | 304.00 | 16.00 | 17.60 |
| 300.0 | 12 | 330.00 | 330.60 | 329.30 | 331.00 | 359.00 | 19.00 | 21.00 |
| 350.0 | 14 | 400.00 | 400.70 | 399.20 | 401.20 | 433.00 | 21.50 | 23.90 |
| 400.0 | 16 | 150.00 | 450.80 | 449.10 | 451.30 | 490.00 | 23.50 | 26.10 |

Specification of Safefit Submersible Delivery Pipes / Rising Main Pipes

| Product OD - Outside Dia. ND Nominal Dia. in mm |  |  | Pressure $\mathrm{Kg} / \mathrm{cm}^{2}$ | Safe total Pump Delivery Head (m) | Ultimate <br> Breaking <br> Load (Kg) | Safe <br> Pulling Load (Kg) | Screen Colour | STD Packing |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Size | Type | Category |  |  |  |  |  |  |
| $\begin{gathered} 1 \\ \text { OD-33.30 } \\ \text { ND-25.00 } \end{gathered}$ | Coupler | V4 | 12.5 | 125 | 850 | 500 | Royal Claret | 28 |
|  |  | V4 | 17 | 170 | 950 | 600 | Green |  |
|  |  | Medium | 22 | 220 | 1250 | 750 | Orange |  |
|  |  | Std | 38 | 380 | 1750 | 1100 | Red |  |
| $\begin{gathered} 11 / 4 \\ \text { OD-42.10 } \\ \text { ND-32.00 } \end{gathered}$ | Coupler | V4 | 12.5 | 125 | 1350 | 800 | Royal Claret | 20 |
|  |  | V4 | 17 | 170 | 1500 | 900 | Green |  |
|  |  | Medium | 21 | 210 | 1725 | 1000 | Orange |  |
|  |  | Std | 30 | 300 | 2350 | 1400 | Red |  |
|  |  | Heavy | 39 | 390 | 2900 | 1750 | Blue |  |
| $\begin{gathered} 11 / 2 \\ \text { OD-48.20 } \\ \text { ND-40.00 } \end{gathered}$ | Coupler | V4 | 16 | 160 | 1850 | 1100 | Green | 16 |
|  |  | Medium | 22 | 220 | 2400 | 1450 | Orange |  |
|  |  | Std | 26 | 260 | 2750 | 1650 | Red |  |
|  |  | Heavy | 39 | 390 | 3700 | 2250 | Blue |  |
| $\begin{gathered} 2 \\ \text { OD-60.20 } \\ \text { ND-50.00 } \end{gathered}$ | Coupler | Medium | 14 | 140 | 2450 | 1450 | Orange | 12 |
|  |  | Std | 20 | 200 | 3500 | 2100 | Red |  |
|  |  | Heavy | 27 | 270 | 4600 | 2800 | Blue |  |
| $\begin{gathered} 21 / 2 \\ \text { OD-75.00 } \\ \text { ND-65.00 } \end{gathered}$ | Coupler | Medium | 11 | 110 | 3100 | 1800 | Orange | 8 |
|  |  | Std | 16 | 160 | 4500 | 2700 | Red |  |
|  |  | Heavy | 26 | 260 | 6450 | 3900 | Blue |  |
| $\begin{gathered} 3 \\ \text { OD-88.00 } \\ \text { ND-80.00 } \end{gathered}$ | Coupler | Medium | 11 | 110 | 4100 | 2450 | Orange | 6 |
|  |  | Std | 17 | 170 | 6400 | 3800 | Red |  |
|  |  | Heavy | 26 | 260 | 8900 | 5300 | Blue |  |
| $\begin{gathered} 4 \\ \text { OD-113.00 } \\ \text { ND-100.00 } \end{gathered}$ | Coupler | Medium | 10 | 100 | 6500 | 3900 | Orange | 4 |
|  |  | Std | 15 | 150 | 9250 | 5550 | Red |  |
|  |  | Heavy | 26 | 260 | 14450 | 8700 | Blue |  |

Note: Submersible Pipes with "Bell Form" available on 1" \& 11/4" -V4 category with 12.5 \& 17 Kg Pressure rating.

## Typical layout of Borewell




## ST T\%REFIT

THE QUALITY YOU LOVE IN PRINCE PIPES, NOW IN A WATER TANK!


## Overview

Pipes brings its mastery of PVC to a new segment: Prince Storefit Water Tanks as part of the company's introductory range of overhead water storage solutions. The products are manufactured using the roto moulding process and finds extensive use for installation at home, offices, factories, commercial places and hospitals that need large volumes of hygienic water storages. Designed with 3 layer insulationOuter white layer for UV resistance, Insulated black middle layer: maintains water temperature lower than ambient temperature, Inner food grade polymer layer: prevents water contamination. Storefit - Paani Ka Bank comes with a 5 year warranty.

## Product range

- Tanks: 500 to 10,000 Litres


## Standards

| Tanks |  |  |
| :---: | :---: | :---: |
| Size (Capacity in Litres) | Standard | Compatible Products |
| $500,750,1000,1500,2000$, | IS 12701:1996* |  |
| $3000,5000 \& 10,000$ |  | • FlowGuard CPVC Pipes • Easyfit UPVC Pipes |
| $\bullet$ Ball Valves $\bullet$ CPVC \& UPVC Fittings $\bullet$ Solvents |  |  |



Residential complexes, commercial buildings

## Dimensions

Storefit water tanks come in a wide range of sizes to cater to your specific needs.

| Size <br> (Capacity <br> in Litres) | Diameter | Height | Lid |
| :---: | :---: | :---: | :---: |
|  | (inches) | (inches) | (inches) |
| 500 | 35 | 40 | 18 |
| 750 | 40 | 44 | 18 |
| 1000 | 42 | 52 | 18 |
| 1500 | 49 | 58 | 18 |
| 2000 | 54 | 62 | 18 |
| 3000 | 63 | 69 | 18 |
| 5000 | 75 | 81 | 18 |
| 10000 | 86 | 122 | 18 |

Designed With 3-layer Insulation


Note: Upto 10,000 litres available only at Dadra Plant
*ISI approval tanks are available at Dadra plant upto 3000 litres (two layer)

## Prince Zero Defect Network



## PRINCE PIPES AND FITTINGS LIMITED <br> Mfg. \& Exporters of UPVC, CPVC, PPR \& HDPE Pipes, Fittings, Valves \& Water Tanks

## Corporate Office:

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E: info@princepipes.com

## Branch Offices:

Ahmedabad I Chennai I Delhi I Kolkata I Pune


[^0]:    Note: • For threaded pipes \& fittings, the working pressure at $23^{\circ} \mathrm{C}$ shall be considered as $50 \%$ of rating

    - Pressure rating of UPVC pipes \& fittings is temperature related. Derating factor shall be applied for applications at higher temperatures

[^1]:    Note: • For threaded pipes \& fittings, the working pressure at $23^{\circ} \mathrm{C}$ shall be considered as $50 \%$ of rating

    - Pressure rating of UPVC pipes \& fittings is temperature related. Derating factor shall be applied for applications at higher temperatures

[^2]:    Note: Pipes available with ISI mark except 400 mm .

