



INDUSTRIAL CATALOGUE





Years old. Years ahead.

Established in 1987 with the aim to provide India with integrated plastic piping systems, PRINCE PIPES AND FITTINGS LTD. has today over 30 years of expertise in manufacturing polymer pipes and around 20 years in fittings. Following stringent quality control measures, we offer end-to-end solutions using four different kinds of polymers: UPVC, CPVC, PP-R and HDPE. Currently, we have a wide product range of 7500+ SKUs developed in our 7 state-of-the-art manufacturing units. Today, our products are used for varied applications in sectors like plumbing, irrigation, underground drainage and sewage disposal. Not only that, our prime focus on industrial solutions has today made us the undisputed leader in PP-R. All this and a strong dealer network that enables us to service customers across the length and breadth of India. Committed to deliver innovations that pave the way for the future, our journey continues...

Vision

To be an acknowledged leader in the Indian plastic piping industry by exceeding customer expectations and maximizing bottom line for all our stake holders.

Mission

To bring a revolution in plastic piping industry through innovative solutions which would create a profitable growth and benefit our customers & the society at large.



Manufacturing Units

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

Sangareddy

(Telangana) Year of Est. 2021



Jaipur

(Rajasthan) Year of Est. 2019



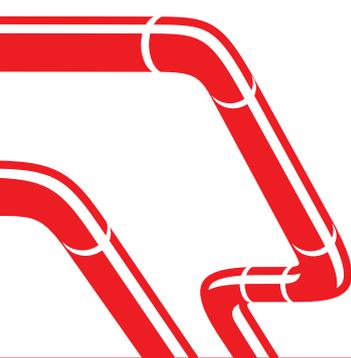
Kolhapur

(Maharashtra)
Year of Est. 2012



Index

| | | | |
|---|----|---|----|
| Greenfit PP-R Industrial Piping Systems | 04 | Foamfit Underground Drainage Piping Systems | 16 |
| Blue Greenfit PP-R Pneumatic Piping Systems | 08 | Corfit Underground Double Wall Corrugated Pipes | 18 |
| FlowGuard Plus CPVC Piping Systems | 10 | Aquafit Agriculture Piping Systems | 20 |
| Easyfit UPVC Piping Systems | 12 | Rainfit Roofwater Systems | 22 |
| Easyfit iN UPVC Industrial Piping Systems | 14 | Cablefit Cable Ducting Pipes | 24 |



Chennai
(Tamil Nadu)
Year of Est. 2012



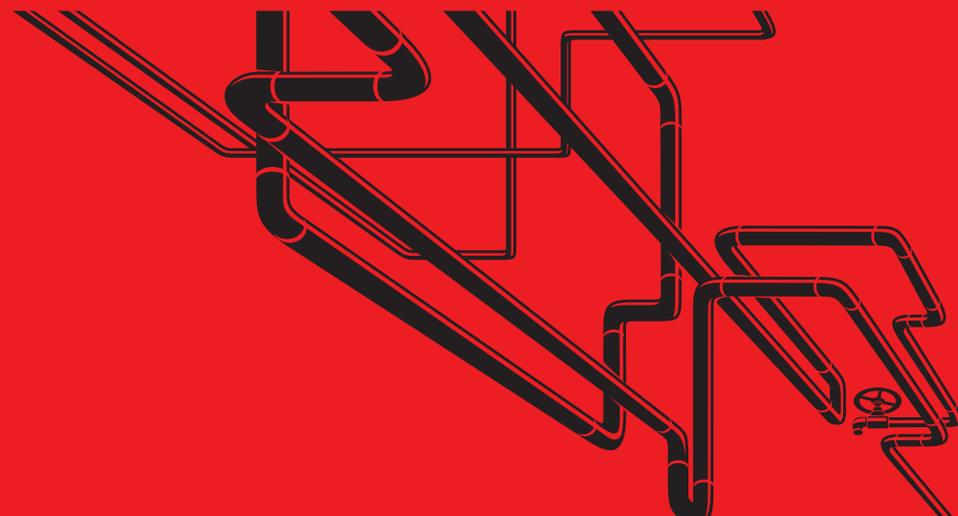
Dadra
(Silvassa) Year of Est. 2000



Haridwar
(Uttarakhand) Year of Est. 2008



Athal
(Silvassa) Year of Est. 1995





INDUSTRIAL PIPING FOR ALL YOUR NEEDS



Pipes as per
IS 15801



Used in
manufacturing of the
pipes & fittings



Fittings as per
DIN 16962

GREENFIT®

PP-R Industrial Piping Systems



Overview

Greenfit PP-R (Polypropylene Random Copolymer) is superior piping solution with temperature handling capacity from -20°C to 95°C. This is coupled with excellent chemical resistant properties which handles all the major aggressive chemicals in the industry. We use imported virgin raw material in manufacturing of Greenfit PPR". Ensuring long term hydrostatic pressure resistance and heat/ chemical stability (MRS 12.5 Mpa, CRS 3.3 Mpa).

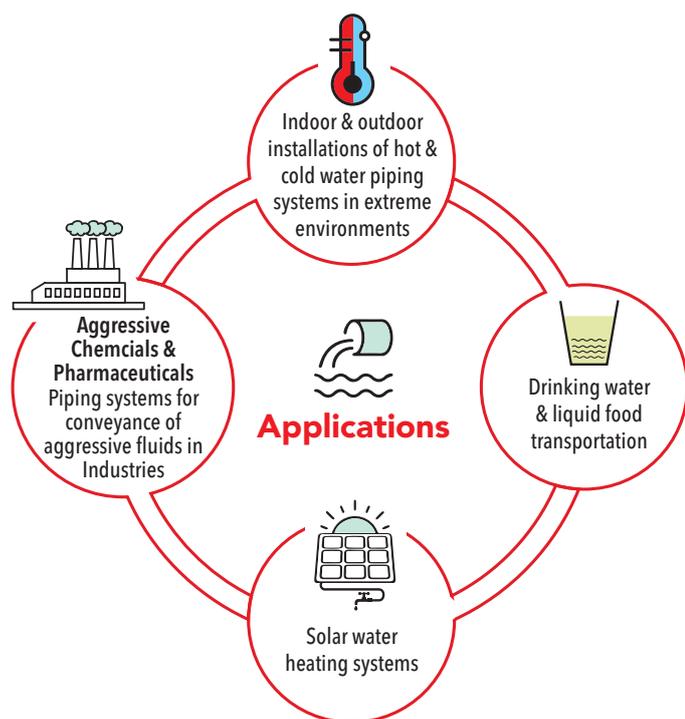
Product range

• **Pipes:** 20 to 160 mm Single layer & Triple layer • **Fittings:** 20 to 160 mm • **Coil:** 20 to 32 mm

Standards

| Pipes | | | | |
|-----------|--|-----------|---|---------------------------|
| Size (mm) | Working Pressure (Kg/cm ²) | Standard | Colour | End Connection |
| 20 - 160 | 10, 16 & 20 | IS: 15801 | Single layer pipes - Green Triple layer pipe - Outer layer in Green Inner layer in White Thermax - Green | Heat fusion welding joint |

| Fittings | | | | |
|-----------|--|------------|--------|--|
| Size (mm) | Working Pressure (Kg/cm ²) | Standard | Colour | End Connection |
| 20 - 160 | 20 & 25 | DIN: 16962 | Green | <ul style="list-style-type: none"> • Socket ends suitable for fusion welding • For transition joints, fittings with threaded metal inserts |



Features and benefits

- Proven hot & cold water performance from -20°C to 95°C
- No rust, corrosion. 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 (contact Prince Pipes for chemical chart)
- Heat-fusion jointing results in homogenous plastic system ensuring leak-proof joints
- Very less coefficient of friction, ensures high flow and reduce pumping cost
- Antimicrobial inside layer of 3 layered pipe adds to safety against bacterial growth ensuring safe drinking water
- Specially formulated thermax pipes reduce linear expansion / contraction of pipes due to temperature variance, ensuring suitability for outdoor application

Application note: Insulation is necessary at Hyphenate Sub Zero Temperature.

Dimensions

| 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 |

Greenfit PP-R Technical Specifications

Physical properties

| Property | Test method | Units | Value |
|------------------------------------|--------------------------|-------------------|---------|
| Density, at 27°C | IS 12235 (Part 14) | Kg/m ³ | 900-910 |
| Melt Flow Rate at 230°C/2.16 kg | IS 13360 Part 4/Sec 1 | g/10 min | <0.25 |

Thermal properties

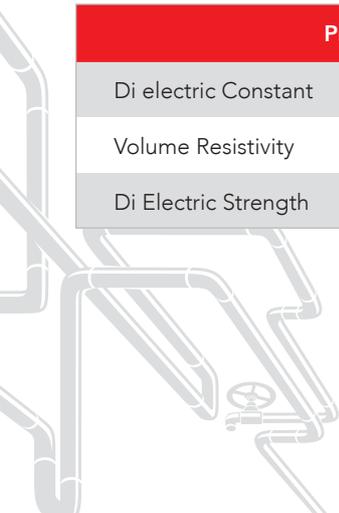
| Property | Test method | Units | Value |
|---------------------------------|-------------|---------|------------------------|
| Thermal Conductivity | DIN 52612 | W/m K | 0-24 |
| Specific Heat, at 23°C | Calorimeter | KJ/kg.K | 2 |
| Coefficient of Linear Expansion | DIN 53752 | mm/M°C | 1.5 X 10 ⁻⁴ |
| VICAT Softening Temperature | ISO 306 | °C | 132 |
| Melting Temperature Range | ISO 3146 | °C | 140-150 |

Mechanical properties

| Property | Test method | Units | Value | |
|--|----------------------|---|--|----------------|
| Tensile Stress at Yield (50mm/ minute) | ISO 527-1, 2 | MPa | 24 | |
| Tensile Strain at Yield (50mm/ minute) | ISO 527-1, 2 | % | >50 | |
| Tensile Modulus (secant) | ISO 527-1, 2 | MPa | 850 | |
| Flexural Modulus | ASTM D 790 | MPa | 850 | |
| Tear Strength | ISO 527 | MPa | 40 | |
| Elongation at Tear | ISO 527 | % | 800 | |
| Shore D Hardness | DIN 53 505 | - | 65 | |
| Pipe Friction Factor | - | - | 0.007 | |
| CHARPY Impact Strength | 23°C 0°C -30°C | ISO179/ 1eA ISO179/ 1eA ISO179/ 1eA | KJ/ m ² KJ/ m ² KJ/ m ² | 22 4 2.5 |

Electrical properties

| Property | Test method | Units | Value |
|----------------------|-------------|---------|------------------------|
| Di electric Constant | DIN 53483 | - | 2.3 |
| Volume Resistivity | DIN 53482 | Ohm-cm | > 1 x 10 ¹⁶ |
| Di Electric Strength | DIN 53481 | KV / mm | ≥ 20 |



Joining Methods

Process:

- Fusion Welding

Cutting

- Cut the pipe at a right angle to its axis using burr-free cutter
- Ensure that the pipe is free from burrs or cutting chips
- Clean the pipe & fitting perfectly before welding
- Mark welding depth at the end of pipe



Heating

- Mount the suitable dies on the heating element of the welded machine according to the diameter of pipe and fitting to be welded
- Connect the welding machine to 220 volts A.C. power supply
- Select 260°C temperature on the welding machine thermostat
- Wait until the required working temperature is reached
- Insert the pipe and the fitting in the dies by exerting light pressure

Welding

- After heating, quickly insert the pipe into the fitting by exerting light pressure.
- Any misalignment should be corrected immediately after insertion to avoid any stress in the weld.
- Allow the joint to cool as per the cooling time given in table.



Recommended Time for GREENFIT® PP-R Fusion Joints

| Pipe Dia (mm) | Welding Depth (mm) | Heating Time (Sec) | Welding Time (Sec) | Cooling Time (Min) |
|---------------|--------------------|--------------------|--------------------|--------------------|
| 20 | 14.50 | 6 | 4 | 2 |
| 25 | 16.00 | 7 | 4 | 2 |
| 32 | 18.00 | 8 | 6 | 4 |
| 40 | 20.50 | 12 | 6 | 4 |
| 50 | 23.50 | 18 | 6 | 4 |
| 63 | 27.50 | 24 | 8 | 6 |
| 75 | 30.00 | 30 | 8 | 6 |
| 90 | 33.00 | 40 | 8 | 6 |
| 110 | 37.00 | 50 | 10 | 8 |
| 160 | 55.00 | 60 | 15 | 10 |



SOLUTION FOR COMPRESSED AIR APPLICATIONS



Pipes as per
IS 15801



Fittings as per
DIN 16962

BLUE GREENFIT[®]

PP-R Pneumatic 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. In the past few decades, development of more advanced-design compressors and ancillary equipments was heavily felt. So, what we need is a new-age solution for compressed air and vacuum lines. The Blue Greenfit Industrial Piping systems are made of Polypropylene Random Copolymer (PPRC or commonly known as PP-R material) which can withstand temperatures from -20°C to 95°C. Blue Greenfit is at par with global industry standards and is ideal for pneumatic applications.

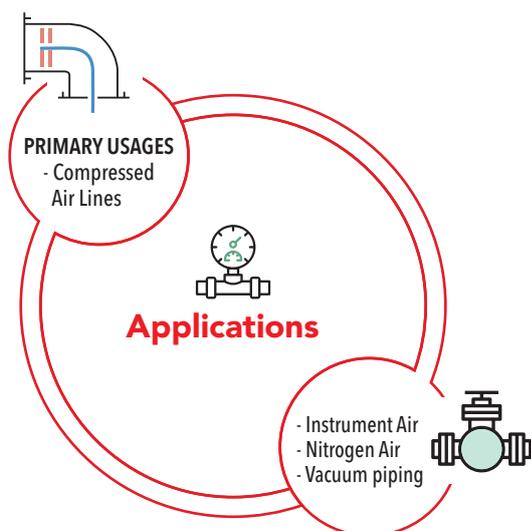
Product range

• **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 (Kg/cm ²) | Standard | Colour | End Connection |
| 20 - 160 | 10, 16 & 20 | IS: 15801 | Triple layer pipe - Outer layer in Blue Inner layer in White | Heat fusion welding joint |

| Fittings | | | | |
|-----------|--|-----------|--------|---|
| Size (mm) | Working Pressure (Kg/cm ²) | Standard | Colour | End Connection |
| 20 - 160 | 20 & 25 | DIN:16962 | Blue | Socket ends suitable for poly-fusion welding. For transition joints, fittings with threaded metal inserts. |



Features and benefits

- Can withstand operating temperatures from -20°C to 95°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

Dimensions

| 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 |

PRINCE PIPING SYSTEMS

FLOWGUARD™ PLUS

FLOWGUARD® PLUS
CPVC PLUMBING SYSTEMS™

50 YEARS
TRUSTED AROUND
THE WORLD

WORLD'S NO.1* CPVC



pw-G-dwv-sw
U.P. Code

For Copper Tube Size
CPVC thru 2" Dia.
(50 mm) Interference Fit



Pipes as per
IS: 15778



(SDR 11 & 13.5)

ASTM F 441 (SCH 40 & 80)

Fittings as per:

ASTM D 2846 (SDR 11)

ASTM F 438 (SCH 40)

ASTM F 439 (SCH 80)

*FlowGuard CPVC is No.1 based on the length of pipes installed.

Overview

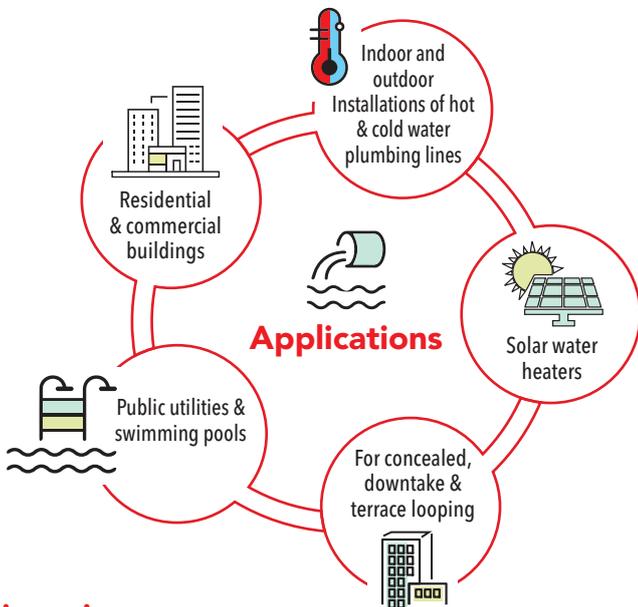
Invented in 1959, used all over the world, established as a trusted product and now brought to you by Prince Pipes, FlowGuard Plus CPVC plumbing systems are built to last for generations. Designed for a service life of 50 years, these CPVC pipes and fittings can withstand temperatures up to 93°C and 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 250mm (1/2 to 10 inch) • **Fittings:** 15 to 150mm (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 | <ul style="list-style-type: none"> • Solvent Cement Sockets Joint. • 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 | | - | - | - | |



Features and benefits

- Lubrizol's NSF/ANSI 14 certified TEMPRITE® 88619 TAN 311 & TEMPRITE® 88096 TAN 311 CPVC compounds respectively
- Suitable for use up to 93°C
- High tensile and impact strength
- Freedom from toxicity, odours and tastes
- Low thermal expansion
- UV resistant
- 25% Higher pressure bearing capacity at higher temperatures
- Consistent product quality
- Peace of mind assured
- Fire retardant
- No corrosion, leakage, scaling and pitting
- Lowest bacterial growth

Dimensions

| Nominal Bore | | Outside Diameter | | SDR-11 | | | | SDR-13.5 | | | |
|--------------|--------|------------------|-------|----------------|-------|-----------------------|-----------------------|----------------|-------|-----------------------|-----------------------|
| | | | | Wall Thickness | | Working Pressure | | Wall Thickness | | Working Pressure | |
| | | Min | Max | Min | Max | At 27°C | At 82°C | Min | Max | At 27°C | At 82°C |
| (mm) | (inch) | (mm) | (mm) | (mm) | (mm) | (Kg/cm ²) | (Kg/cm ²) | (mm) | (mm) | (Kg/cm ²) | (Kg/cm ²) |
| 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 | 1 ¼ | 34.80 | 35.00 | 3.20 | 3.70 | 28.14 | 6.93 | 2.60 | 3.10 | 22.22 | 5.60 |
| 40 | 1 ½ | 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°C | At 82°C | Min | Max | At 23°C | At 82°C |
| (mm) | (inch) | (mm) | (mm) | (mm) | (mm) | (Kg/cm ²) | (Kg/cm ²) | (mm) | (mm) | (Kg/cm ²) | (Kg/cm ²) |
| 65 | 2 ½ | 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



HEALTHY PROCESSES NEED SUPPLY OF CLEAN WATER



Pipes as per:
ASTM D 1785 (SCH 40)
ASTM D 1785 (SCH 80)

Fittings as per:
ASTM D 2467 (SCH 40)
ASTM D 2466 (SCH 80)

EASYFIT[®]
UPVC Piping Systems

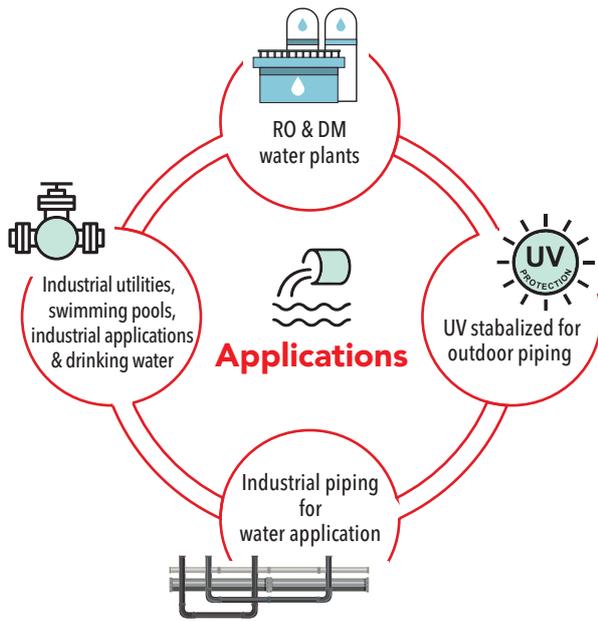
*except brass fittings

Product range

• Pipes: 1/2 to 10 inch • Fittings: 1/2 to 6 inch

Standards

| Pipes | | | | Fittings | | | |
|-------------|----------|---------------|---|-------------|----------|-------------|--|
| Size (Inch) | Class | Standard | End Connection | Size (Inch) | Class | Standard | End Connection |
| 1/2 - 10 | SCH - 40 | ASTM D - 1785 | Solvent Cement Joint and Threaded Joint | 1/2 - 6 | SCH - 40 | ASTM D 2466 | <ul style="list-style-type: none"> • Solvent Cement Socket Joint. • For transition joints, fittings with plastic threads & metal threaded inserts are available. |
| 1/2 - 10 | SCH - 80 | ASTM D - 1785 | | 1/2 - 4 | SCH - 80 | ASTM D 2467 | |



Features and benefits

- Proven performance for water temperature from 5°C to 60°C
- Lead-free material ensures safe drinking water
- Self-extinguishing. Does not support combustion
- Fast and easy installation. Saves labour
- UV stabilised

Dimensions

Dimensional & working pressure details for Easyfit UPVC Pipes (Solvent Weld) at 23°C

| Nominal Bore | | Outside Diameter | Sch-40 | | Sch-80 | |
|--------------|------|-----------------------|----------------|-----------------------|----------------|-----------------------|
| | | | Wall Thickness | Working Pressure | Wall Thickness | Working Pressure |
| (Inch) | (mm) | (Kg/cm ²) | (mm) | (Kg/cm ²) | (mm) | (Kg/cm ²) |
| 1/2 | 15 | 21.34 +/- 0.10 | 2.77 + 0.51 | 42.40 | 3.73 + 0.51 | 59.75 |
| 3/4 | 20 | 26.67 +/- 0.10 | 2.87 + 0.51 | 33.75 | 3.91 + 0.51 | 48.50 |
| 1 | 25 | 33.40 +/- 0.13 | 3.38 + 0.51 | 31.60 | 4.55 + 0.53 | 44.25 |
| 1 ¼ | 32 | 42.16 +/- 0.13 | 3.56 + 0.51 | 26.00 | 4.85 + 0.58 | 36.60 |
| 1 ½ | 40 | 48.26 +/- 0.15 | 3.68 + 0.51 | 23.25 | 5.08 + 0.61 | 33.00 |
| 2 | 50 | 60.32 +/- 0.15 | 3.91 + 0.51 | 19.65 | 5.54 + 0.66 | 28.10 |
| 2 ½ | 65 | 73.02 +/- 0.18 | 5.16 + 0.61 | 21.10 | 7.01 + 0.84 | 29.55 |
| 3 | 80 | 88.90 +/- 0.20 | 5.49 + 0.66 | 18.25 | 7.62 + 0.91 | 26.00 |
| 4 | 100 | 114.30 +/- 0.23 | 6.02 + 0.71 | 15.50 | 8.56 + 1.02 | 22.50 |
| 6 | 150 | 168.28 +/- 0.28 | 7.11 + 0.86 | 12.60 | 10.97 + 1.32 | 19.65 |
| 8 | 200 | 219.10 +/- 0.38 | 8.18 + 0.99 | 11.20 | 12.70 + 1.52 | 17.50 |
| 10 | 250 | 273.00 +/- 0.38 | 9.27 + 1.12 | 9.90 | 15.06 + 1.80 | 16.20 |

Working pressure details for Easyfit UPVC Fittings (Solvent Weld) at 23°C

| Nominal Bore | | Sch-40 | Sch-80 |
|--------------|------|-----------------------|-----------------------|
| | | Working Pressure | Working Pressure |
| (Inch) | (mm) | (Kg/cm ²) | (Kg/cm ²) |
| 1/2 | 15 | 25.30 | 35.85 |
| 3/4 | 20 | 20.25 | 29.10 |
| 1 | 25 | 18.95 | 26.55 |
| 1 ¼ | 32 | 15.60 | 21.95 |
| 1 ½ | 40 | 13.95 | 19.80 |
| 2 | 50 | 11.75 | 16.85 |
| 2 ½ | 65 | -- | 17.70 |
| 3 | 80 | -- | 15.60 |
| 4 | 100 | -- | 13.50 |
| 6 | 150 | 7.50 | -- |

Working pressure for Metal Insert Fittings is 15Kg/cm²

Note: • For threaded pipes & fittings, the working pressure at 23°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



**DURABLE WITH HIGH TENSILE
AND IMPACT STRENGTH**



EASYFIT[®] in

UPVC INDUSTRIAL PIPING SYSTEMS



Overview

Easyfit iN PVC solvent joint industrial piping system makes its pressure bearing capacity twice than that of the threaded pipe, Easyfit iN PVC pipes & fittings exhibit the well-known physical characteristics and other benefits of conventional PVC piping such as good chemical and corrosion resistance, low thermal conductivity, high strength-to-weight ratio, good impact resistance and ease of installation. Also, this piping system is lead-free and the PVC material used conforms to ASTM Cell Classification 12454-B of ASTM D1784.

Product range

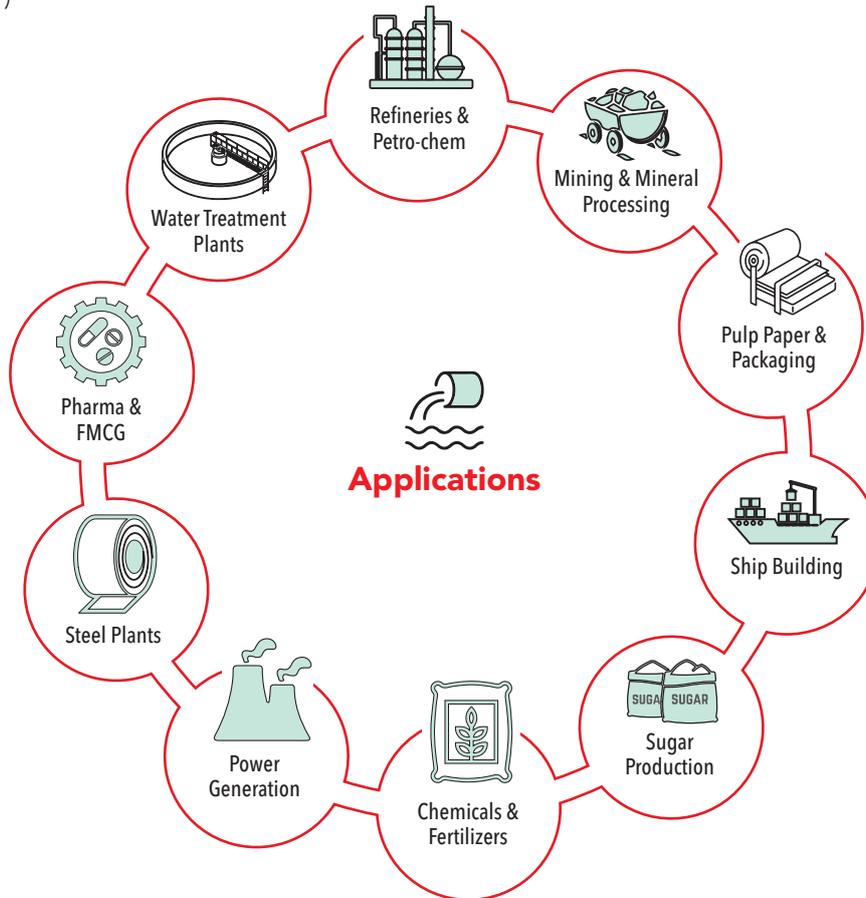
Easyfit iN lead-free industrial piping systems are available from 15mm (1/2") to 300mm (12") with wide range of fittings, transition fittings, valves and specially designed brass inserted fittings to suit any design criteria.

• Pipes:

15mm (1/2") to 300mm (12")

• Fittings:

15mm (1/2") to 150mm (6")



Features and benefits

- Mostly in the intermediate temperature range between 20°C and 60°C, EASYFIT-iN industrial UPVC piping finds its ideal application in industrial and water supplies, assuring optimal performance in terms of mechanical resistance, good rigidity, low co-efficients of thermal expansion and optimal safety factors in service.
- EASYFIT-iN has lower friction factor compared to metal & other materials, and since they do not rust, pit, scale or corrode, the interior walls remain smooth in virtually any service giving high flow rate.
- UPVC resins are generally inert to most chemicals, acids-alkalis, aliphatic-paraffinic hydrocarbons and saline solutions. Further it is totally compatible for the handling of treated and untreated drinking water as well as demineralized water.
- EASYFIT-iN handles most industrial fluids with best strength to weight ratio at lower material cost. Couple this with easy to store, cut, transport & jointing, this all reduces labour and transportation costs significantly.
- EASYFIT-iN piping does not support combustion & has low flame propagation than alternate polymers. Further it has self-extinguishing nature with low toxic emissions & smoke generation.
- UPVC material has low electrical conductivity in comparison with metals that are most conductive. EASYFIT-iN pipes thereby makes the industrial piping system safe when working with electrical tools or equipment.
- EASYFIT-iN has a better resilience against photo-degradation, oxidation & creep stress in contrast to metal that faces heavy degeneration over a short course of time. As the internal and external surface of UPVC pipes do not weaken because of these effects, we get years of maintenance-free service & extended lifetime.
- EASYFIT industrial piping systems can be used in sunlight exposed conditions by just applying a standard grade of exterior latex paint (water base) which will protect the system adequately.
- EASYFIT-iN pipes are non-toxic and lead-free which makes them a safe material for potable water.



LIGHTWEIGHT SOLUTION FOR LONG LASTING GRAVITY DRAINAGE APPLICATION



Pipes as per
IS 16098-1

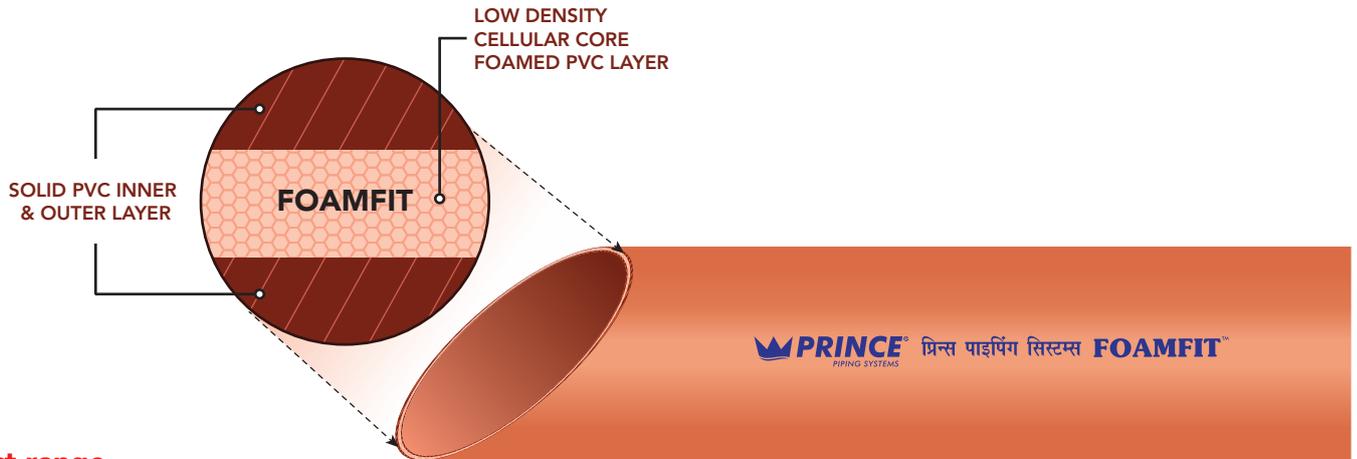


FOAMFIT[®]
Underground Drainage
Piping Systems



Overview

An advanced drainage and sewerage solution, these multi-layer pipes are ideal for industrial projects. 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.

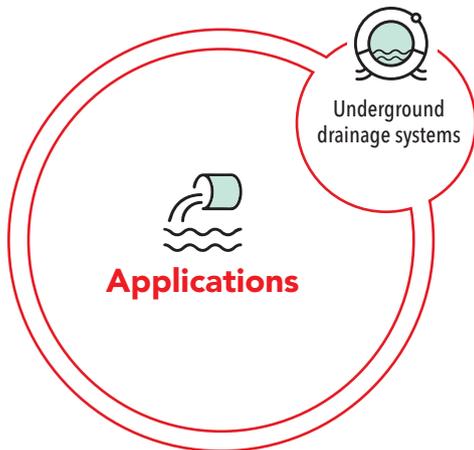


Product range

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

Standards

| Pipes | | | Fittings | |
|--------------------------------|----------------------|---|-----------|---|
| Size (mm) | Standard | End Connection | Size (mm) | End Connection |
| SN 2 - 160, 200, 250, 315 | IS 16098 (part 1) | Elastomeric Sealing Ring Joint & Solvent Joint | 110 & 160 | Elastomeric Sealing Ring Joint & Solvent Joint |
| SN 4 - 110, 160, 200, 250, 315 | | | | |
| SN 8 - 110, 160, 200, 250, 315 | | | | |



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 |



**A REVOLUTION TODAY FOR
A CLEANER INDIA TOMORROW**



Pipes as per
IS 16098-2



CORFIT[®]
Underground Double Wall
Corrugated Pipes



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.

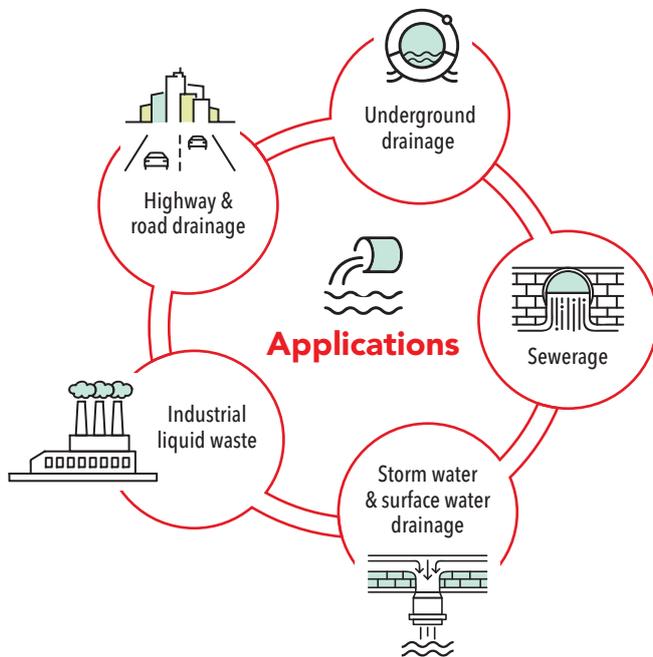
Product range

Pipes: 100 to 1000 mm nominal diameter

Fittings: 100 to 500 mm

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

| Nominal Pipe Diamters | Socket Length (min) |
|-----------------------|---------------------|
| (mm) | (mm) |
| 100 | 32 |
| 150 | 43 |
| 170 | 48 |
| 200 | 54 |
| 250 | 59 |
| 300 | 64 |
| 400 | 74 |
| 500 | 85 |
| 600 | 96 |
| 800 | 118 |
| 1000 | 140 |

*DWC - Double Wall Corrugated



GREAT DISPOSAL POWER WHEN YOU WANT TO DRAIN IT FAR



Pipes as per
IS 4985



Fittings as per
IS 7834

AQUAFIT[®]

Agriculture Piping System

*except brass fittings

Overview

Pressure & Non-Pressure Pipes are manufactured in accordance with IS:4985 covering a complete range from 20 mm to 400 mm. They are available in pressure rating 2.5 Kg/cm², 4 Kg/cm², 6 Kg/cm², 8 Kg/cm², 10 Kg/cm² & 12.5 Kg/cm² as defined in IS:4985. The pipes are provided with plain socket and suitable for solvent cement jointing.

Their main application is for water supply, as well as for drinking water distribution. However, these can also be used in cable ducting, ventilation pipe lines & slurry lines etc.

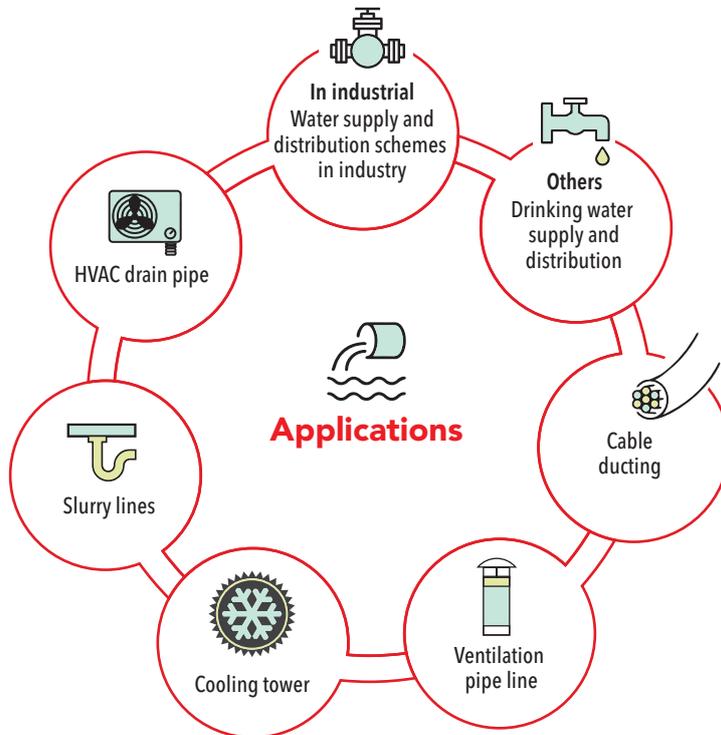
They are available in light grey colour and nominal length of 6 mtrs.

Product range

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

Standards

| Pipes | | | | Fittings | | | |
|-----------|--|----------|----------------|-----------|--|----------|--|
| Size (mm) | Working Pressure (Kg/cm ²) | Standard | End Connection | Size (mm) | Working Pressure (Kg/cm ²) | Standard | End Connection |
| 20 to 400 | 2.5, 4.0, 6.0, 8.0, 10.0 & 12.5 | IS 4985 | Solvent Joint | 20 to 250 | 4, 6, 10 & 16 | IS 7834 | Solvent Joint, Threads (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



**GREAT PRODUCTION IS
ALSO ABOUT CONSERVATION**



RAINFIT®

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 augmenting the underground water table through a proper mechanism to percolate soil.

Product range

• Pipes:

Half Round Pipes (uPVC) - 140, 180, 250 mm

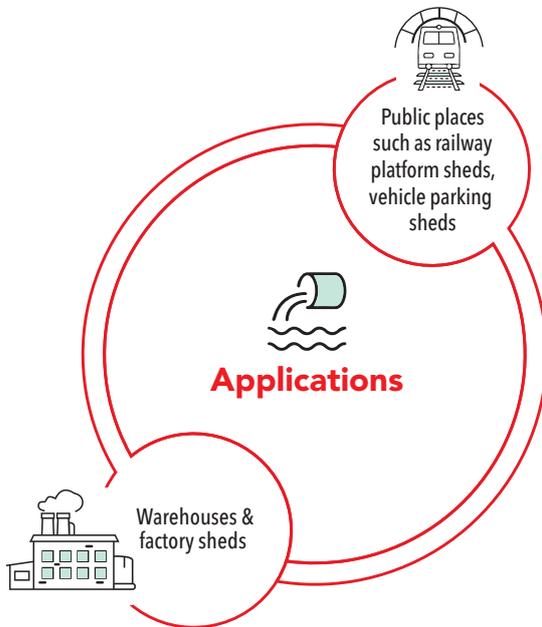
Downtake Pipes (uPVC) - 75, 110, 160 mm

• Fittings: (PP)

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

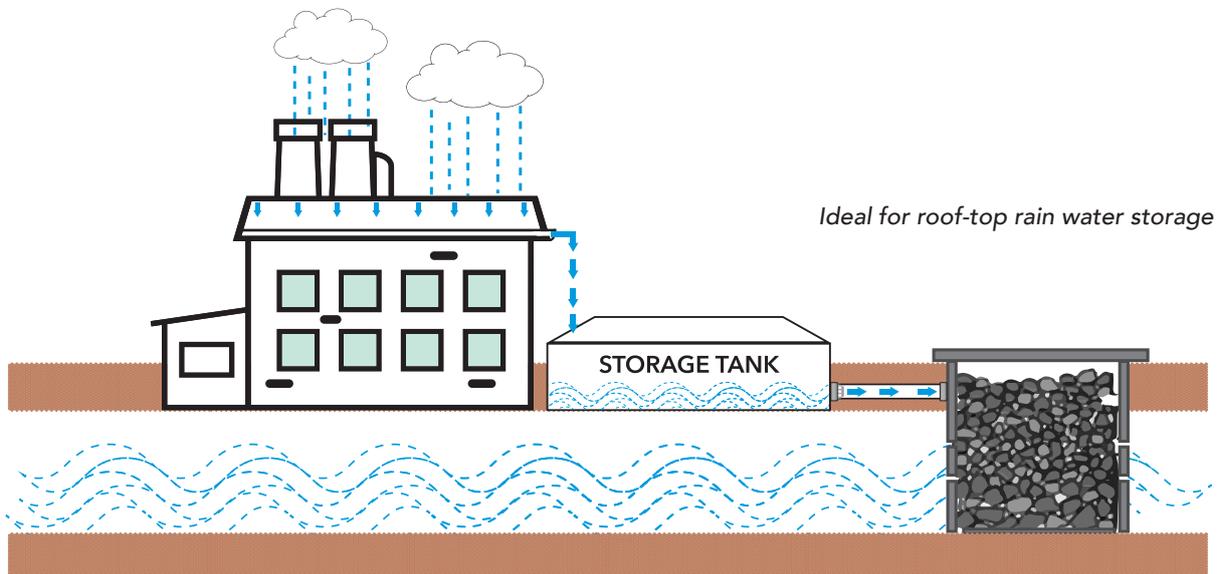
Standards

| Pipes | | Fittings | |
|---|--|-----------------------------|-------------------------------------|
| Size (mm) | End Connection | Size (mm) | End Connection |
| Half Round Pipes - 140, 180, 250 Downtake Pipes - 75, 110, 160 | <ul style="list-style-type: none"> Elastomeric rubber seal with clamps for halfround pipes 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
- Highly mechanical. 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 aesthetic appearance gives it an attractive look





**PROTECT THE CABLES THAT
POWER YOUR PROJECT**

CABLEFIT™
CABLE DUCTING PIPES



Pipes as per
IS 16205-24



Overview

Infrastructure in India is seeing new avenues on daily basis. With multiple innovations happening across sectors and wiring being involved in almost all sectors, cable ducting becomes an essential investment in protecting wires across applications.

Introducing PRINCE CABLEFIT, made from High Density Polyethylene (HDPE) which provides long-term strength, chemical resistance and prevention of stress cracks. Its unique double-walled construction makes it light-weight, gives excellent mechanical properties like high ring stiffness and better impact strength. The smooth inner wall facilitates easy insertion of ducts and cables.

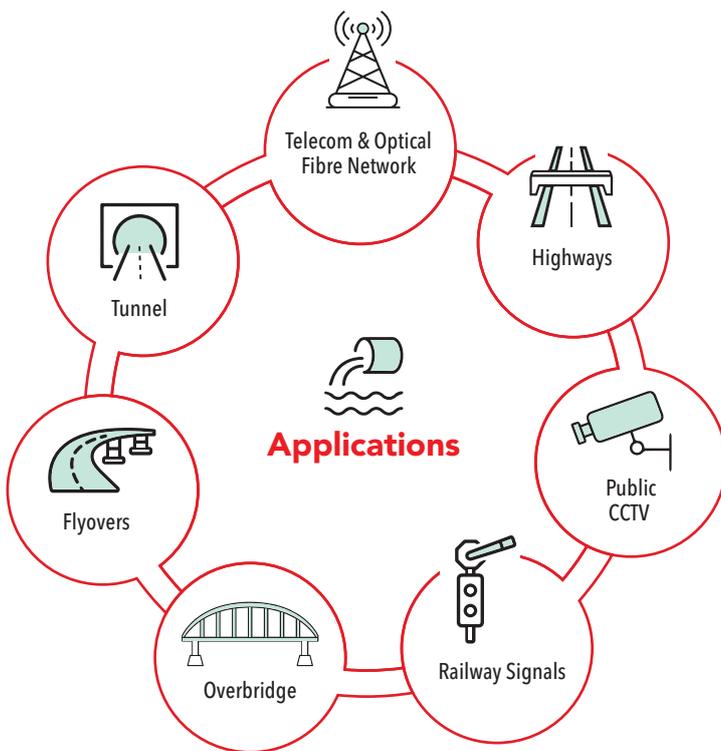
These pipes are manufactured using ultra-modern hi-tech machines which results in excellent finished product. It is manufactured as per standard IS 16205 – Part 24. Prince Cablefit is available in class 450N and 750N.

Product range

- **Pipes (OD):** 50 mm, 63 mm, 75 mm, 90 mm, 110 mm, 120 mm, 160 mm.
- **Fittings:** 50 mm, 63 mm, 75 mm, 90 mm.
 - Standard length of pipes is 6 m for sizes 90 mm - 160 mm.
 - For sizes 50 mm, 63 mm & 75 mm, it will be available in coil of 100 m.

Joining Method:

Coupler (with or without rubber ring)



Features and Benefits

- Light-weight makes it easy to assemble and transport
- Smooth internal surface makes it easy to pull cables through the pipe
- Optimum mechanical and physical properties
- Tough outer surface makes it easy to resist high impacts
- Low-maintenance and long-lasting
- Built-in space capacity for future expansion
- Reduces cable over cable damage

Fittings



Coupler



Elbow



Tee



PRINCE PIPES AND FITTINGS LIMITED

Manufacturers of UPVC, CPVC, PPR, HDPE Pipes, Fittings, Valves & Water Tanks

Branch Offices:

Ahmedabad | Chennai | Delhi | Kolkata | Pune

Toll Free: 1800 267 7555

Please Call between 10 am to 6 pm

www.princepipes.com

Follow us on:    



Disclaimer: All information contained in this manual is given in good faith and believed to be accurate and reliable. No responsibility can be accepted for any error, omissions or incorrect assumptions. Any specification can change without prior notice. All the images are shown for representation purposes only.