



ROOFINGS LIMITED

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ROOFINGS LIMITED POLYPIPES DIVISION

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INTRODUCTION

Roofings Group, the leading manufacturer of high quality steel products in Uganda, has commissioned a brand new state of the art plant to meet all market needs for quality plastic pipes, uPVC, HDPE and PPR products plus fittings in the region.

This 5 million dollar plant with an installed production capacity of 900 tons per month, operated by a highly qualified team, will ensure a vast addition to our already wide product range thus aiding our set goal to become a one stop shop for all building and construction related products.

All products are tested for high quality and are produced in relevance to DIN 8062:1988 and ISO 161/1. They have also been certified by UNBS US 264:2001 to establish confidence that our products offer the customer value for money.

For all domestic plumbing, industrial use, water projects, drainage/sewerage management, irrigation, rain water disposal, waste disposal requirements, Roofings Group under its Poly pipes division is now there to serve you.



Products are available at our factory in Lubowa Estate, Plot 126, our Super Stores on William street, Market Street, Channel Lane Industrial Area and Spire Road in Jinja. You can also find our products with all our registered dealers and stockists across the country.

Strength of the nation







ROOFINGS POLYPIPES



Our vision

We strive to be the largest manufacturer of steel and plastic building products within the East African Community, through adopting the most modern technology, employing a professionally trained workforce and complying with the highest international standards to deliver the best quality products to the market.

Our Mission

To continuously increase the market share and satisfy customers product requirements through a quality based approach that also meets the expectations of our employees, shareholders, suppliers and the community.



Our aim is to create a dedicated and self motivated workforce that supports our values of quality and integrity. To identify and address the product requirements of our esteemed customers as well as enhance shareholders returns through maximizing efficiency and reliability.

To explore new business opportunities and achieve a global presence. We review and continually improve the quality management system developed on a process approach to ensure that we meet the requirements for manufactured PVC/HDPE PIPE products as established at relevant levels within the organization.

Our overall business objectives shall be measurable and consistent with the quality policy that has been communicated to all employees.







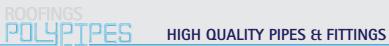




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uPVC

uPVC stands for Unplasticized Poly-vinyl-chloride

Our PVC products are classified into;

PVC pressure and drainage pipes

PVC plumbing pipes

PVC electrical conduits

PVC rain gutters

PVC borehole casing/ screen pipes

All these are produced in conformity with

UNBS US 264:2001 German Standard DIN 8062/8061/ ASTM 1785 DIN 4925

Using the most modern technology and manufacturing techniques, we are producing PVC/HDPE/PPR pipe products that provide effective solutions on water supply and drainage applications.

The products undergo various quality tests that guarantee superiority and accuracy thus ensuring the customer value for money:



Quality Assurance:

Quality tests which are compulsory are done in our fully equipped laboratory by our well trained technicians.











- Our PVC products are tested for the right amount of Carbon Black Content(CBC) which is vital in protecting the pipe from all effects of Ultra violet rays.
- The product is tested for heat reversion to ensure minimal deformation effects when the pipe is exposed to any extreme conditions.
- Dichloro Methane test is done to detect cracks/gelation.
- A hydrostatic pressure test is carried out to ensure that even with blockages in the system, the pipe will withstand the resulting pressure thus preventing costly pipe bursts.
- Impact tests are conducted to ensure that the pipe does not break due to shock load by ground movement or pressure exerted to the ground surface

The outcome of these quality tests is a world class product that combines strength, safety and longevity.

uPVC Pressure and Drainage Pipes



(S.W.R) Soil, waste and rain water.

- They are produced in standard lengths of 6m inclusive of the socket.
 However special lengths can be produced on customer request
- Pressure ratings range from PN 2.5, PN 4, PN 6, PN 10 and PN 16. Other special thicknesses can be produced for lower pressure requirements as per customer specification.
- Sizes produced are from OD 20mm up to OD 450mm. Available in dark grey, light grey, blue and can customise other colours.

Special additional Features possessed by our uPVC Pressure and Drainage pipes:

- Smooth mirror inside finish which eliminates any weak points that may in the long run cause leakages.
- No need for a fire resistant coating given the self extinguishing properties on the pipe.
- Quick and efficient installation.
- · High impact strength.
- Minimal need for repairs and clearing blockages.
- Quick flow of water or waste due to the smooth inside finish.
- Longer life span due to the physical and chemical resistance features of the pipe.







Rubber Ring Socket (Joining Method)



Our pipes are manufactured with either a Solvent Weld Socket Joint or Rubber Ring Socket on one of the ends as per international standards.

Rubber Ring Socket

One end of the pipe is plain and the other end is self socketed with an integral groove to hold a rubber gasket.

When jointed with a rubber ring, the joint formed is a trouble free water tight one, ready to take care of any thermal expansion and contraction.

- It offers flexibility in the joints in case on any surface and soil movements.
- Allows room for error in the required straight pipe alignment during application.
- The rubber ring in the socket is leak proof.
- It is corrosion free and ensures clean water movement
- It gives immediate leak results thus quicker to install.
- It is the best alternative in high pressure water and sewer systems.







Branding





All our PVC products are branded with visible laser print showing;

- Name of product
- Size in Diameter (OD)
- PN Rating
- Thickness
- Length
- Company Name and address.
- Batch number/shift of product



Please check the product for the above in order to identify our PVC product.



Table showing the different PVC product specifications

| Item No | External Diameter (mm) | Maximum Wall Thickness (mm) | Length (Mtrs) |
|------------|---------------------------|--------------------------------|------------------|
| 1 | 25 | 1.9 | 6 |
| 2 | 32 | 1.8 | 6 |
| 3 | 32 | 2.4 | 6 |
| 4 | 36 | 1.8 | 6 |
| 5 | 40 | 1.2 | 6 |
| 6 | 40 | 1.8 | 6 |
| 7 | 40 | 1.9 | 6 |
| 8 | 40 | 3 | 6 |
| 9 | 43 | 1.8 | 6 |
| 10 | 43 | 1.2 | 6 |
| 11 | 50 | 1.8 | 6 |
| 12 | 50 | 2.4 | 6 |
| 13 | 50 | 3.7 | 6 |
| 14 | 55 | 2 | 6 |
| 15 | 55 | 1.8 | 6 |
| 16 | 63 | 1.2 | 6 |
| 17 | 63 | 1.5 | 6 |
| 18 | 63 | 1.9 | 6 |
| 19 | 63 | 3 | 6 |
| 20 | 63 | 4.7 | 6 |
| 21 | 75 | 2.2 | 6 |
| 23 | 75 | 3.6 | 6 |
| 24 | 75 | 5.6 | 6 |
| 25 | 82 | 1.2 | 6 |
| 26 | 82 | 1.5 | 6 |
| 27 | 90 | 1.8 | 6 |
| 28 | 90 | 2.7 | 6 |
| 29 | 90 | 4.3 | 6 |
| 30 | 90 | 6.7 | 6 |
| 31 | 110 | 1 | 6 |
| 32 | 110 | 1.2 | 6 |
| 33 | 110 | 1.5 | 6 |

| Item No | External Diameter (mm) | Maximum Wall Thickness (mm) | Length (Mtrs) |
|------------|---------------------------|--------------------------------|------------------|
| 34 | 110 | 1.8 | 6 |
| 35 | 110 | 2.2 | 6 |
| 36 | 110 | 2.7 | 6 |
| 38 | 110 | 5.3 | 6 |
| 40 | 110 | 8.2 | 6 |
| 42 | 125 Mm | 3.7 | 6 |
| 44 | 125 | 6 | 6 |
| 46 | 140Mm | 4.1 | 6 |
| 49 | 140 | 10.4 | 6 |
| 50 | 160 | 1.8 | 6 |
| 51 | 160 | 3.2 | 6 |
| 52 | 160 | 4.7 | 6 |
| 54 | 160 | 7.7 | 6 |
| 56 | 160 | 11.9 | 6 |
| 58 | 180 | 4.4 | 6 |
| 59 | 200 | 4 | 6 |
| 60 | 200 | 5.9 | 6 |
| 61 | 200 | 7.7 | 6 |
| 62 | 200 | 9.6 | 6 |
| 64 | 200 | 14.9 | 6 |
| 66 | 225 | 6.6 | 6 |
| 68 | 225 | 10.8 | 6 |
| 70 | 225 | 10.8 | 6 |
| 71 | 225 | 16.7 | 6 |
| 75 | 250 | 11.9 | 6 |
| 77 | 250 | 18.6 | 6 |
| 79 | 280 | 13.4 | 6 |
| 81 | 280 | 20.8 | 6 |
| 82 | 315 | 9.2 | 6 |
| 84 | 315 | 15 | 6 |
| 85 | 355 O Ring | 16.9 | 6 |
| 86 | 400 O Ring | 23.7 | 6 |

Applications:

- Used for drainage and waste channeling.
- Used in fresh water movement lines.
- Industrial applications such as liquid chemical and fluid movement.



uPVC Fittings



Fittings for the entire PVC product range are available for both high pressure and low pressure drainage applications.

High Pressure fittings are designed to withstand forces of expansion and contraction thus eliminating points of weaknesses to give optimum sanitation and water system solutions.

They are available in all sizes and can be applied on all pipes sizes. Pressure Fittings up to PN 16

Welded Non Pressure fittings for drainage system applications are available in all required sizes ranging from 20mm to 200mm.

| ltem | Size (mm) | Size (inches) |
|------------------|-----------|---------------|
| | 43 | 1 ½" |
| | 55 | 2" |
| Couplers | 75 | 2 1/2" |
| | 90 | 3,, |
| | 110 | 4" |
| | 43 | 1 1/2" |
| | 55 | 2" |
| 90 Elbow | 75 | 2 1/2" |
| | 82 | 3,, |
| | 110 | 4" |
| | 43 | 1 1/2" |
| | 55 | 2" |
| 90 Equal Tee | 75 | 2 1/2" |
| | 82 | 3,, |
| | 110 | 4" |
| | 43 | 1 ½" |
| | 55 | 2" |
| Female Adaptor | 75 | 2 1/2" |
| | 90 | 3,, |
| | 110 | 4" |
| | 50 | 1 ½" |
| | 63 | 2" |
| Male Adaptor | 75 | 2 1/2" |
| | 82 | 3,, |
| | 110 | 4'' |
| Swept Bend Plain | 36 | 1 ¼" |
| | 43 | 1 ½" |
| | 55 | 2" |
| | 82 | 3" |
| | 110 | 4" |
| | 160 | 6" |

| Item | Size (mm) | Size (inches) |
|------------------|--------------|---------------|
| Elbow Plain | 160 | 6'' |
| Elbow Flaili | 200 (PN 4) | 8′′ |
| | 36 | 1 ¼" |
| | 43 | 1 1/2′ |
| Swept Bend Door | 55 | 2" |
| | 110 | 4" |
| | 160 | 6" |
| | 36 | 1 ¼" |
| | 43 | 1 ½" |
| Bend 45 Degree | 55 | 2" |
| Della 43 Degree | 110 | 4" |
| | 160 | 6" |
| | 160 (ribbed) | 6'' |
| | 36 | 1 ¼" |
| | 43 | 1 ½" |
| | 55 | 2" |
| Swept Tee Plain | 82 | 3" |
| Swept ree riam | 110 | 4" |
| | 160 | 6'' |
| | 160 (PN 4) | 6'' |
| | 200 (PN 4) | 8" |
| | 43 | 1 ½" |
| | 55 | 2" |
| Swept Tee Door | 82 | 3" |
| 511-ept 100 200. | 110 | 4" |
| | 160 | 6′′ |
| | 160 (swr) | 6" |
| Cross Tee | 110 | 4" |
| Cross Tee Door | 110 | 4" |
| Single 'Y' Plain | 110 | 4" |
| Single 'Y' Door | 110 | 4′′ |



| Double 'y' Plain | 110 | 4" | п |
|--------------------------|-------------|---------------|-----|
| Double 'Y' Door | 110 | 4" | |
| Reducing Coupler | 200x160 | 8"x6" | |
| Access Plug+ Cap | 36 | 1 1/4" | |
| | 43 | 1 1/2" | |
| | 55 | 2" | |
| | 82 | 3" | |
| | 110 | 4" | |
| | 160 | 6" | |
| Socket Plug | 110 | 4" | |
| 204.144 | 140 | 5" | |
| Coupler | 36 | 1 1/4" | |
| Coupici | 43 | 1 1/2" | |
| | 55 | 2" | |
| | | 4" | |
| | 110 | 4" 6" | |
| | 160 | ο | |
| ltem | Size (mm) | Size (inches) | |
| Pipe Clips | | 1/2" | |
| | | 3/4′′ | |
| | | 1" | |
| | | 1 1/2" | |
| | | 2" | |
| | 82 | 3" | 164 |
| | 110 | 4" | |
| | 160 | 6'' | - 1 |
| Branch Saddle | 110x1 ¼" | 4"x1 ¼" | |
| | 110x1 ½" | 4"x1 ½" | |
| | 110x2" | 4"x2" | |
| Reducer | 43x36 | 1 ½"x1 ¼" | |
| | 55x36 | 2"x1 ¼" | ı |
| | 55x43 | 2"x1 ½" | A |
| | 82x55 | 3"x2" | |
| | 110x1 ¼" | 4′x1 ¼″ | |
| | 110x1 ½" | 4"x1 ½" | |
| | 110x2" | 4"x2" | |
| | 110x3" | 4"x3" | |
| | 160x110 | 6"x4" | |
| Vent Cowl/Air balloon | 110 | 4" | ۱ |
| WC Connector | 125x110 | 5"x4" | |
| Multi-Trap (4-way) | 110x90 | 4"x3" | |
| Multi-Trap (4 way) | 110x2"x1 ½" | 4"x1 ½" | |
| Grating | 110 | 4" | |
| Bottle Trap | 36 | 1 1/4" | |
| Bottle Trap Combined | 43 | 1 1/2" | |
| Floor Trap | 55 | 2" | |
| Angle Value (Pair) | 1/2" | 1/2" | |
| Flexible Tube (pair) | | | |
| | 1/2" | 1/2" | |





































- A) PVC Swept Door Bend
 B) PVC Elbow 90°
 C) PVC Equal Tee
 D) PVC Male Adopter
 E) PVC Bend 45°
 F) PVC Swept Tee
 G) PVC Single Y
 H) PVC Double Y

- PVC Door Cross Tee
 PVC Pipe Clippers
 PVC Access Pug + Cap
 (Clean Out)
- L) Reducing TEE with Door M) PVC Swept Door Tee N) Coupler



uPVC Pressure Pipe

(Cold Water Supply): Schedule 40

Pressure rated at 23 degrees Celsius, these pipes provide a cost effective solution on cold water distribution for domestic, industrial, agricultural and commercial applications.

Production is well monitored within the ASTM 1785-76 specifications.

The pipes have a tough material that can withstand cracks, corrosion, rust, termites, fungus, scale formation etc. This makes them long lasting and totally free of health hazards.

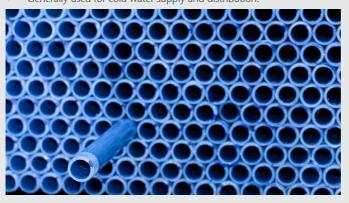




| Outside Diameter | Outside diameter | Thickness | w | orking Pressu | re |
|---------------------|---------------------|------------|------|---------------|-----|
| (inches) | (mm) | (mm) | MPA | PN | PSI |
| 1/2" | 21.34 +0.10 | 2.77+ 0.51 | 4.14 | 28 | 600 |
| 3/4′′ | 26.67 +0.10 | 2.87+ 0.51 | 3.31 | 22 | 480 |
| 1" | 33.40 +0.13 | 3.38+ 0.51 | 3.10 | 24 | 450 |
| 1 ¼" | 42.16 +0.13 | 3.56+ 0.51 | 2.55 | 20 | 370 |
| 1 1/2" | 48.26 +0.15 | 3.68+ 0.51 | 2.28 | 18 | 330 |
| 2" | 60.32 +0.15 | 3.91+ 0.51 | 1.93 | 16 | 280 |

Applications:

Generally used for cold water supply and distribution.









uPVC Electric Conduit Pipes

We produce conduit pipes channeling all forms of electric wiring in buildings. These pipes conform to UNBS, US-264-2. Our product quality will ensure that all your building wiring is covered well to protect it from any electric wire related hazards.

- They are fire resistant
- Possible electric leakages are minimized by the in built sound insulation properties of the pipes
- The pipes are kept free of corrosion due to the absence of any plasticizers.

Conduits Pipes Specifications

| Item No | External Diameter (mm) | Maximum Wall Thickness (mm) | Length (Mtrs) |
|---------|---------------------------|--------------------------------|---------------|
| 1 | 20 | 0.8 | 4 |
| 2 | 20 | 0.8 | 6 |
| 3 | 20 | 1.25 | 4 |
| 4 | 20 | 1.25 | 6 |
| 5 | 20 | 1.5 | 4 |
| 6 | 25 | 0.8 | 4 |
| 7 | 25 | 0.8 | 6 |
| 8 | 25 | 1.25 | 4 |
| 9 | 25 | 1.25 | 6 |
| 10 | 32 | 1.6 | 4 |



| Size (mm) | Outside Diameter (mm) | | Thickness (mm) | |
|-----------------|--------------------------|------|----------------|-----|
| | Min | Max | Min | Max |
| 20 Light gauge | 19.7 | 20.2 | 0.8 | 0.9 |
| 20 Heavy gauge | 19.7 | 20.2 | 1.2 | 1.3 |
| 25 Light gauge | 24.7 | 25.2 | 0.8 | 0.9 |
| 25 Medium gauge | 24.7 | 25.2 | 1.2 | 1.3 |
| 32 | 31.7 | 32.2 | 1.8 | 2.0 |
| 40 | 39.8 | 40.2 | 1.8 | 2.0 |
| 50 | 49.7 | 50.3 | 1.8 | 2.0 |

NB: Pipes from 400mm are produced in both with and without O-ring





PVC Threaded Plumbing Pipe

| Item No | External Diameter (inches) | Maximum Wall Thickness (mm) |
|---------|----------------------------------|--------------------------------|
| 1 | 1/2" | 3.28 |
| 2 | 3/4" | 3.38 |
| 3 | 1″ | 3.6 |
| 4 | 1 1/4" | 4.07 |
| 5 | 1 1/2" | 4.19 |
| 6 | 2" | 4.42 |



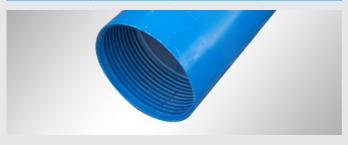
Borehole (Screening and Casing Pipes)



They are ideal for domestic wells, irrigation wells, industrial wells, public wells, mining wells, etc.

Casing Pipes

| Item Number | External Diameter (mm) | Length (Mtrs) | Thickness (mm) |
|-------------|---------------------------|---------------|----------------|
| 1 | 140 | 2.8 | 6.7 |
| 2 | 140 | 3 | 6.7 |
| 3 | 114 | 2.8 | 5 |
| 4 | 114 | 2.8 | 7 |
| 5 | 168 | 2.8 | 7.6 |
| 6 | 168 | 2.8 | 9.6 |







Screening Pipes

| Item No | External Diameter (mm) | Length (mtrs) | Thickness (mm) |
|---------|---------------------------|---------------|----------------|
| 1 | 168 | 2.8 | 9.6 |
| 2 | 168 | 2.8 | 7.6 |
| 3 | 140 | 3.0 | 6.7 |
| 4 | 140 | 2.8 | 4.1 |
| 5 | 114 | 2.8 | 5.0 |
| 6 | 114 | 2.8 | 7.0 |
| 7 | 60 | 3.0 | 4.1 |
| 8 | 48.1 | 3.0 | 3.9 |
| 9 | 42 | 3.0 | 3.9 |







Roofings Polypipes Gutters



Water is life - and life on earth is linked to water. Next to air, our existence depends on water. Civilizations are built around water. Thus collection, storage, transportation and use of water are equally important. Now a day's, droughts and water scarcity are very common. In this situation, use of water and piping systems used for its conveyance and management becomes more crucial and important especially Rainwater Disposal/Harvesting systems. This is mainly due to the great value addition offered by Plastic Pipe systems such as corrosion resistance, light weight, easy handling, simple jointing, long life, and cost saving. ROOFINGS POLYPIPES offers the high quality premium gutter to meet all your rain water disposal and harvesting needs. It comes in a white colour, 5.8m long and 127mm width with all the accompanying accessories available at the factory and our super stores.

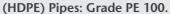








High Density Polyethylene



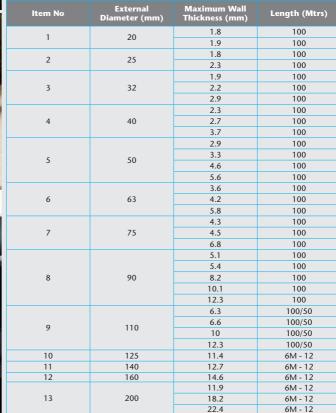
We make HDPE from high quality material that ensures excellent product elasticity and flexibility relevant to DIN 8074 and UNBS US 482:2002.

This flexibility allows application without need for fittings as angles, sharp turns and maneuvers can be made by just bending the pipe. This saves costs in fittings and time.

They are available in sizes from 20mm to 250mm dia and Pressure ratings from

PN 6, PN 10 PN 16 and PN 20.

HDPE Specifications















Fittings Available

| 1 HDPE Male Adaptor | 20 - 110mm |
|---|----------------|
| HDPE Female Adaptor | 20 - 110mm |
| HDPE Compression Flange Adaptor 1' - 4" | 20 - 110mm |
| Hdpe Elbow 90 Degree | 20 - 110mm |
| HDPE Coupler | 20 - 110mm |
| HDPE Reducer Coupler | 20 - 110mm |
| HDPE End Cap | 20 - 110mm |
| | 20 X 25 X 20 |
| HDPE Fittings Increased Tee | 25 X 32 X 25 |
| | 25 X 20 X 25 |
| | 63 X 32 X 63 |
| | 63 X 40 X 63 |
| | 63 X 50 X 63 |
| | 75 X63 X75 |
| | 90X 63 X 90 |
| | 90 X 75 X90 |
| T | 110 X 90 X 110 |
| Reducer Tee | 32X 20 X 32 |
| | 32 X 25 X32 |
| | 40 X 25 X40 |
| | 40 X 32X 40 |
| | 50 X 25 X50 |
| | 50 X 32X 50 |
| | 50 X 40X 50 |
| | 63 X 25 X63 |
| Repair Coupling | 25 - 110mm |
| Saddle Clamp | 50 - 110mm |
| | 20 X 1/2" |
| Wall Plate Elbow | 25 X 3/4" |
| Tee With Peg | 32Mm - 110mm |
| HDPE Elbow Male | 20 - 110mm |
| HDPE Elbow Female | 20 - 110mm |
| HDPE Tee Male | 20 - 110mm |
| HDPE Tee Female | 20 - 110mm |

Other Special features:

- All pipes with PE 100 grade material
- High tear strength, product surface is highly resistant to scratches and abrasion.
- The pipes are produced in longer lengths of up to 50-100 meters customised lengths can be made, which is in itself a huge saving in terms of time and fittings.
- Due to their relatively lighter weight, they are easy to transport, handle and install.

Applications;

- High pressure water supply.
- Long distance water transportation.
- Best alternative for gravity water systems.
- Best option where there are many obstacles to go around in a water line.
- Delivery of water with pump systems.
- For petroleum products transportation.





- A) HDPE Compression Flange 1) HDPE Male Adopter
- B) HDPE Male Adopter
 C) HDPE Female Adopter
 D) HDPE Equal Tee
 E) HDPE Female Tee

- F) HDPE Reducer Coupler
 G) HDPE Elbow
 H) HDPE Coupler

- J) HDPE Male Adopter
- K) HDPE Equal Tee
 L) HDPE Elbow
 M) HDPE Reducer
- N) HDPE Stub End

- R) HDPE Saddle Clamp S) HDPE Saddle Clamp

- V) HDPE End Cap
 W) HDPE Saddle Clamp PN16
 X) HDPE Saddle Clamp



Poly Propylene Random (PPR Pipes):



In all modern plumbing and water distribution systems, provision for supply of HOT and COLD water is necessary.

Roofings Polypipes has set up an advanced PPR pipe plus accessories section to satisfy all customer needs in as far as Hot and Cold water distribution requirements are concerned.

Our product has been lab tested and approved to posses unique qualities.

- Temperature resistance up to 800 degrees Celsius.
- No reaction with salts and acids.
- Taste and odour neutral.
- Non delayed and non-deforming.
- Leak and frost proof.
- Heat preservation and energy saving.
- Offers lifetime security on jointing by fusion welding.
- No calcification.
- Convenient and reliable installation.
- Excellent chemical resistance.
- Exact in dimensional measurements.

Health Benefit

- There is minimal adverse effect from hard and soft water given the smooth bore that prevents scale formation.
- Pipe is free of any lead contents which can be bad if consumed over time.
- There are zero effects of corrosion due to unique flow properties for friction.

| Size(mm) | PN 10 (mm) | PN 16 (mm) | PN20 (mm) | PN 25 (mm) |
|----------|------------|------------|-----------|------------|
| 20 | 1.9 | 2.80 | 3.4 | 4.1 |
| 25 | 2.3 | 3.50 | 4.2 | 5.1 |
| 32 | 2.9 | 4.40 | 5.4 | 6.5 |
| 40 | 3.7 | 5.50 | 6.7 | 8.1 |
| 50 | 4.6 | 6.90 | 8.3 | 10.1 |

Applications:

- Cold and Hot water installation in residences, complexes, hospitals, schools, offices, apart ments etc.
- Industrial applications such as movement of liquid foods and corrosive fluids like acids.
- Excellent choice in compressed air plants.
- Swimming pools.
- Agriculture and Horticulture.





^{*} Length is 4m standard





PPR specifications

| Item No | External Diameter (mm) | Maximum Wall Thickness (mm) | Length (Mtrs) |
|---------|---------------------------|--------------------------------|---------------|
| 1 | | 2.3 | 4 |
| | 20 | 3.3 | 4 |
| | | 4 | 4 |
| 2 | | 2.8 | 4 |
| | 25 | 4.1 | 4 |
| | | 4.9 | 4 |
| | | 3.4 | 4 |
| 3 | 32 | 5.1 | 4 |
| | | 6.2 | 4 |
| | 4 40 | 4.3 | 4 |
| 4 | | 6.3 | 4 |
| | | 7.6 | 4 |
| 5 50 | 50 | 5.3 | 4 |
| | | 7.8 | 4 |
| | | 9.4 | 4 |

PPR Fittings For All Pipe Sizes

| PPR Fitting | Specification (mm) | |
|---------------------------|--------------------|--|
| Equal Tee 90 Degree | 20 | |
| | 25 | |
| | 32 | |
| | 40 | |
| | 50 | |
| | 25x20 | |
| | 32x20 | |
| Reducing Tee 90 Degree | 32x25 | |
| | 20x ½″ | |
| | 20x ¾" | |
| Female Tee | 25x ½" | |
| | 25x ¾" | |
| | 32x1" | |
| | 20 | |
| Cross Tee | 25 | |
| Closs lee | 32 | |
| | 40 | |
| | 20x 1/2" | |
| Female Adaptor | 25x ¾" | |
| | 32x1" | |
| | 40x1 ¼" | |
| | 50x1 ½" | |

| PPR Fitting | Specification (mm) | |
|----------------------|--------------------|--|
| Male Adaptor | 20x 1⁄2′′ | |
| | 25x ¾" | |
| | 32x1" | |
| | 40x1 ¼" | |
| | 50x1 ½" | |
| | 25x25 | |
| | 32x20 | |
| | 32x25 | |
| | 40x20 | |
| | 40x25 | |
| Reducing Bush/Socket | 40x32 | |
| | 50x20 | |
| | 50x25 | |
| | 50x32 | |
| | 50x40 | |
| Threaded Cap/Blind | 20 | |
| end | 25 | |
| Couplers | 20 | |
| | 25 | |
| | 32 | |
| | 40 | |
| | 50 | |





| PPR Fitting | Specification (mm) | |
|---------------------------|--------------------|--|
| 90 Degree Elbow | 20 | |
| | 25 | |
| | 32 | |
| | 40 | |
| | 50 | |
| 45 Degree Elbow | 20 | |
| | 25 | |
| | 32 | |
| | 40 | |
| | 50 | |
| | 20 | |
| 00 0 | 25 | |
| 90 Degree Female Elbow | 32 | |
| LIBOW | 40 | |
| | 50 | |
| | 20 | |
| 90 Degree Male Elbow | 25 | |
| | 32 | |
| | 40 | |
| | 50 | |















- A) PPR Ball Valve

- B) PPR End Cap
 C) PPR Equal Tee
 D) PPR Designer Valve
- E) PPR Tap Screw

- Fr PR Tab Salew
 PPR Elbow 90°
 PPR Female Threaded Elbow
 PPR Male Threaded Adopter
 PPR Male Threaded Union

- J) PPR Union K) PPR Male Threaded Union L) PPR Male Threaded Joint M) PPR Reducer
- N) PPR Bend 45°
- O) PPR Male Threaded Adopter
 P) PPR Reducing Elbow
 Q) PPR Pipe Clips

- R) PPR Reducing Tee

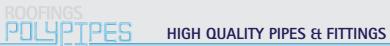






Comparison of Plastic with other Piping Materials

| Criteria | PVC Pipes | HDPE Pipes | Galvanized Pipes |
|--|--|--|---|
| Effects of Hard water | Scale formation is prohibited due to smooth bore | Scale formation is prohibited due to smooth bore | High Scale formation possibilities |
| Effects of soft water | Zero effect | Zero effect | High chances of corrosion |
| Health Criterion | Excellent | Excellent | Low due to lead content and corrosion |
| Jointing Techniques | Solvent Cement to form a permanent leak proof seal | Fusion Weld to form a permanent leak proof seal | Soldered/Ferrule |
| Corrosion Resistance | Zero effect | Zero effect | Very low |
| Thermal Strength property at high temperatures | Not recommended for application | Limited application | Very good |
| Availability of Fittings | Very Good | Good | Very Good |
| Thermal Expansion | Special care required for concealed piping | High, not to be used for concealed piping | Good for concealed piping |
| Effects of Sub-Zero temperature | Up to 0 degrees C | Up to -40 degrees C | Up to 0 degrees C |
| Ultra Violet resistance | Low | Very good | Very good |
| Ease of Installation | Good | Good | Low |
| Flow Properties for friction | Very good | Very good | Low |
| Material Cost | Average | Average | High |





| <u>Notes</u> | |
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Outlets

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Roofings factory Mbarara

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