



UAN: 111-019-019

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international[™]
industries
built on trust



**most trusted
UPVC pipes
and fittings in
Pakistan**

international[™]
industries
polymer



upvc pipes
& fittings



company profile

International Industries is a world-class manufacturer of steel & polymer pipes, tubes and fittings.

With a strong focus on innovation, quality, and sustainability, International Industries is proud to be the market leader in Pakistan and a notable player in the global market.

Founded in 1948, International Industries's history is deeply intertwined with Pakistan's industrial growth. The company is publicly listed on the Pakistan Stock Exchange and possesses a substantial equity of PKR 15.2 billion.

With an annual revenues of PKR 27 billion (USD 88 million). International Industries has been consistently ranked among Pakistan's Top 25 Companies for 15 years. International Industries is a member of the Amir S. Chinoy (ASC) Group, known for its ethics, industrial excellence, and innovation. The Group also consists of:

INTERNATIONAL STEELS LIMITED (ISL): Pakistan's largest manufacturer of cold rolled, galvanized, and color-coated steel coils and sheets. ISL has an annual manufacturing capacity of over 1 million tons and annual revenues of PKR 77 billion

PAKISTAN CABLES LIMITED (PCL): Pakistan's largest manufacturer of electrical cables, wires, copper rods, PVC compounds, and aluminum sections. PCL is a household brand name with annual revenues of PKR 22 billion.

International Industries's global presence is dominated by its strategic subsidiaries:

IIL AUSTRALIA PTY LIMITED: International Industries's wholly-owned Australian subsidiary which represents the Group's interest in the Asia-Pacific region with annual revenues of AUD 23 million (USD 14 million)

IIL AMERICAS INC.: International Industries wholly-owned subsidiary, situated in Toronto, with a focus on representing the Group in North America and annual revenues of CAD 16 million (USD 12 million)

International Industries's global reach extends through its exports to over 60 countries on 6 continents, resulting in the 'FPCCI Export Performance Award' for 23 consecutive years. This consistent achievement underscores International Industries's commitment to quality in the international market.

International Industries is a proud recipient of numerous prestigious awards and accolades, including the 'Corporate Excellence Award' from the Management Association of Pakistan, the 'Environment Excellence Award' from the National Forum for Environment & Earth, and the 'OHSE Award' from the Employers Federation of Pakistan. These awards highlight International Industries's commitment to excellence.

In testament to its commitment to excellence, International Industries is certified to ISO 9001, ISO 14001, ISO 45001, API 5L, PSQCA, UL, and CE, confirming its adherence to rigorous international standards. Notably, International Industries is the first Pakistani company to attain ISO 45001 certification by Lloyds Register Quality Assurance.

With a strong legacy as a responsible corporate citizen, International Industries maintains a focus on community development and ESG best practices. International Industries is proud to be a champion of the UN Sustainable Development Goal (SDG) 7 'Affordable & Clean Energy for All' and has substantially converted its own energy requirements to renewable sources.

International Industries's industry leadership is reinforced through memberships in esteemed associations like the International Tube Association (ITA), the Galvanizers Associations of Australia (GAA), the Australian Wire Industry Association (AWIA), Canadian Fence Association (CFA), and key Pakistani industrial bodies. Accreditation as an Australian Trusted Trader (ATT) & by the Australia Border Force (ABF) underscores International Industries's dedication to international standards and integrity.

For more insights into International Industries's legacy of innovation and reliability, please visit www.iil.com.pk.



quality: our hallmark

International Industries is a company firmly committed to quality. By adhering to globally recognized standards and regulations, International Industries ensures that each of its products stands up to the quality expectations of its valued clients.

A comprehensive quality assurance and control system is employed throughout the production process, from production planning and specification to raw material inventory control, all the way through packing, storage, and shipping.

Only the highest quality raw materials are used to manufacture our pipes and fittings on state-of-the-art machinery by fully trained and skilled professionals in an environment of continuous improvement and R&D.

Furthermore, our in-house testing & quality control labs ensure that the dimensional, physical and chemical elements of our products meet and exceed the most stringent of global quality standards



standards & certifications

Standard	Description	Location	Certified by	Since	Certificate / license #
ISO 9001	Quality Management System	Head Office, Branch Office, Factory 1, 2 & 3.	Lloyds Register Quality Assurance (UK)	1997	10187837
ISO 14001	Environment Management System	Head Office, Branch Office, Factory 1, 2 & 3.		2000	10187829
ISO 45001 (Old Standard OHSAS 18001)	Occupational Health & Safety Management Systems	Head Office, Branch Office, Factory 1, 2 & 3.		2007	10187831
API Specification Q1 ® & 5L	Manufacturer of Line Pipe Plain End, HFW, PSL 1	Factory 1	American Petroleum Institute (USA)	2000	5L-0391
	Manufacturer of Line Pipe Plain End, HFW, PSL-1 & PSL-2	Factory 2		2016	5L-1104
BS EN 10255, 10266	CE Mark for Hot Dip Galvanized ERW Carbon Steel Pipes	Factory 1 & Factory 2	CNC Services (Germany)	October 2011	CNC/EEC/4112/11
BS EN 10296-1, BS EN 10305-5 & BS 1717	CE Mark for ERW Tubes from Cold Rolled Carbon Steel			October 2011	CNC/EEC/4113/11
BS EN 39, 10219, 10240 ASTM A-500, A252, A53 AS/NZS 1163, 4792	CE Mark for Cold Formed Welded Structural Hollow Sections (HSS)			October 2018	CNC/EEC/4525/18
UL-852 ASTM A-795, ASTM A-53	UL Certification (ERW & Galvanized Pipes for Fire Sprinkler System)	Factory - 1	Underwriter Laboratories UL (United States)	February 2020	20170425-EX27362
UL-852(UAE)	UL UAE Certification (Metallic Sprinkler Pipe For Fire Protection Service)	Factory - 1	Underwriter Laboratories UL	April 2017	EX27362-20170425
PEC License	Sri Lank Standards Institution	-	SLSI	2020	II/CME/72/RM-02

Standard	Description	Location	Certified by	Since	Certificate / license #
PS: 3452-2014	Polyethylene pipes for the supply of gaseous fuel "IIL FLEX FLOW" brand	Factory - 2	Pakistan Standards & Quality Control Authority (PSQCA)	October 2025	CM/L-5410/2026
PS:3580-2014(R)	Polyethylene Pipe for water Supply “MEGAFLO” Brand			February 2018	CSDC/L-170/2015 (R)
PS:4533-34/1999 (R)	License for the use of Pakistan Standard Mark for PPRC Pipe	Factory - 3		May 2018	CML/N-1287/2018
DIN 16962 / 1980	License for the use of Pakistan Standard Mark for PPRC Fittings				CML/N-1288/2018
PS: 3452/2014 R	Buried polyethylene (PE) pipes for the supply of gaseous fuel "IIL FLEX FLOW" brand			December 2025	CM/L-4108/2025
ASTM A53/2012	MS Pipe (Mild Steel Pipe)	Factory 1		March 2018	CSDC/L-205/2017 (R)
	Constructors/Operators License	Pakistan Engineering Council	-	September 2019	C3/6151
Renewal Certificate	CE Mark for ERW Tubes from Cold Rolled Carbon Steel	GHQ, Rawalpindi	-	December 2020	DP&W/E-2/WS/029/2 016 Serial No. 1400
DIN 8074 ISO 4437	General Head Quarters For PPRC & Pe-100 Engineer-in-chief's Branch, Provisional Certificate Of Enlistment / Registration				DP&W/E-2/WS/027/2 012 Serial No. 1398
DIN 8074 ISO 4437	General Head Quarters For Hdpe & Mdpe Pipe Engineer-in-chief's Branch, Certificate Of Enlistment / Registration				DP&W/E-2/WS/008/9 5 Serial No. 1399
BS 1387/1985	General Head Quarters For Gi Pipes Engineer-in-chief's Branch, Certificate Of Enlistment / Registration	PAAPAM	PAAPAM	May 2019	1174/S

background of non standard UPVC in Pakistan

Pakistan’s plumbing market is largely driven by non-standard UPVC pipes and fittings. The available products vary in dimensions, wall thickness, pressure ratings, and material quality.

This lack of standardization leads to frequent leakage, poor joint compatibility, reduced lifespan, and higher maintenance costs. What appears economical today often becomes expensive tomorrow.

why does standardization matter?

Plumbing systems perform best when every component follows recognized standards. Standard UPVC pipes and fittings ensure:

- Perfect dimensional compatibility
- Consistent pressure performance.
- Predictable installation results
- Long-term durability and safety

In a market dominated by non-standard products, consultants, designers, plumbers, installers, and end-users are forced to compromise on quality and reliability.

raising the bar for Pakistan’s plumbing industry

We at International Industries believe that Pakistan deserves plumbing systems built on consistency, safety, and performance.

That’s why we are introducing fully standardized UPVC pipes and fittings, manufactured to meet recognized technical benchmarks, bringing reliability, compatibility, and peace of mind to every project.

Plumbers and engineers face daily challenges caused by mismatched fittings and unreliable pipes. Our standardized UPVC system eliminates guesswork, ensuring faster installation, fewer callbacks, and consistent results on every site.

what makes standard UPVC different?

Standard UPVC pipes are manufactured in accordance with established industry standards and certifications.

- **Composition:** They are made from high-quality, pure PVC resin without the addition of plasticizers, resulting in a rigid, strong material. They often use lead-free technology and are non-toxic, making them safe for potable water applications.
- **Performance:** They have guaranteed pressure ratings, mechanical strength, and consistent wall thickness, ensuring durability, longevity (50+ years), and reliable performance in specific applications.
- **Certification:** They are often certified by bodies like NSF or PSQCA, which ensures they meet health and safety standards.

standard vs. non standard UPVC: a clear comparison

Property	Standard UPVC pipes	Non-standard UPVC
Quality control	Adheres to international standards (ASTM, BS, EN,	Not meeting specific standards. Noncompliance with regulations.
Material	High-quality, pure PVC resin; lead-free additives, low filler ratio.	Contain higher fillers, lower quality recycled resin, non-food grade harmful additives.
Dimensions	Comply to standard diameters and wall-thickness.	Does not follow any standard dimensions.
Durability	Highly durable, strong, and long-lasting (50+ years).	Less durable, more prone to brittleness and failure.
Performance	Reliable pressure ratings, strict quality checks and lab tests as per standard requirements. Consistent wall thickness & diameters.	Inconsistent performance, unpredictable pressure tolerance. Does not adhere to any quality control lab tests. Tailor made diameters and wall thickness.
Safety	Certified product as per international safety standards.	Unsafe and may leach chemicals

UPVC pipes & fittings applications

Construction & infrastructure

- Plumbing systems in buildings.
- Concealed and surface piping.
- Fire protection systems (where permitted by codes)

Sewerage & drainage

- Underground drainage systems.
- Soil, waste, and vent systems.
- Stormwater drainage and rainwater harvesting.

Agriculture & irrigation

- Drip and sprinkler irrigation systems.
- Surface and sub-surface irrigation.
- Water conveyance in farms, nurseries, and greenhouses.

Industrial applications

- Process water lines.
- Cooling water systems.
- Utility pipelines in factories and plants.

Chemical & effluent handling

- Conveyance of acids, alkalis, and salts (as per compatibility).
- Chemical dosing and transfer lines.
- Industrial effluent and wastewater pipelines.

Wastewater treatment

- Raw water intake and distribution
- Filter feed and backwash lines
- Treated water pipelines

salient features of standardized UPVC pipes & fittings

• Manufactured to international standards

Conforming to relevant international standards (ASTM, BS, DIN, EN.) ensuring consistent quality, dimensions, and performance.

• Excellent corrosion & chemical resistance

Immune to rust, scaling, electrolysis, and most acids, alkalis, and salts.

• High strength & pressure rating

Designed to withstand specified working pressures with a good safety margin.

• Smooth inner surface

Low coefficient of friction reduces head loss and improves flow efficiency.

• Long service life

Service life of 50 years or more under normal operating conditions.

• Lightweight & easy handling

Easy to transport, cut, and install; reduces installation time and labor cost.

• Leak-proof joints

Solvent cemented or elastomeric ring joints ensure strong, durable, and watertight connections.

• Low maintenance

No painting, coating, or cathodic protection required.

• Weather & UV resistant

Suitable for outdoor installations with appropriate UV stabilization.

• Good thermal & electrical insulation

Low thermal conductivity and electrically non-conductive.

• Fire performance

Self-extinguishing material; does not support combustion.

• Cost-effective

Lower life-cycle cost compared to metal piping systems.

advantages of UPVC system

- 1. Simple Installation:** International Industries UPVC pipes and fittings includes a complete system of pipes and fittings that can be joined by using International Industries jointing solvent. The pipes are easily assembled on-site using the instructions and techniques recommended in this catalogue.
- 2. Flow Properties:** Due to the smooth internal diameters of the pipes as well as the accurate alignment of transition parts of system components, there is a little pressure drop in the International Industries UPVC system compared to other traditional piping systems. Hence the flow losses are minimum.
- 3. Chemical & Corrosion Resistance:** International Industries UPVC pipes and fittings are non-corrosive and resistant to many chemicals.
- 4. Agriculture Usage:** International Industries UPVC pipes are ideal for agricultural irrigation. Non-corrosive International Industries UPVC pipes are perfect for carrying water, which contains chemical fertilizers and insect inhibitors.
- 5. Quality & Service Life:** The service life of International Industries UPVC pipes and fittings is longer than the other UPVC brands available in the market due to adherence to the highest quality standards and use of the premium resin.

material specification

1. International Industries manufactures UPVC pipe and fitting from virgin PVC raw material, PVC pipe grade, and PVC fitting grade respectively.
2. Imported additives are used in the manufacturing of International Industries UPVC pipe & fitting to ensure that quality standards are met.
3. Technical data sheet of raw material can be provided on request.

installation guidelines

To make consistently tight joints, the following points of solvent cementing should be clearly understood:

1. The joining surfaces must be softened and made semifluid.
2. Sufficient cement must be applied to fill the gap between pipe and fittings.
3. Assembly of pipe and fittings must be made while the surfaces are still wet and fluid.
4. Joint strength will develop as the cement cures. In the tight part of the joint, surfaces tend to fuse together; in the loose part, the cement bonds to both surfaces.



jointing method

step 1



Preparation

Assemble proper materials for the job. This includes the appropriate solvent, primer, and applicator for the size the of the piping system to be assembled.

step 2



Cut pipe

The pipe must be cut as square as possible. (A diagonal cut reduces bonding area in the most effective part of the joint.) Use a handsaw and miter box or a mechanical saw.

Plastic tubing cutters may also be used for cutting plastic pipes; however, some produce a raised bead at the end of the pipe. This bead must be removed with a file or reamer, as it will wipe solvent away when the pipe is inserted into the fitting.

step 3



Deburr pipe ends

Use a knife, plastic pipe deburring tool, or file to remove burrs from the end of small diameter pipe. Be sure to remove all burrs from around the inside as well as the outside of the pipe. A slight chamfer (bevel) of about 15° should be added to the end to permit easier insertion of the pipe into the fitting.

Failure to chamfer the edge of the pipe may remove solvent from the fitting socket, causing the joint to leak. For pressure pipe systems of 2" and above, the pipe must be end-treated with a 15° chamfer cut to a depth of approximately 3/32" (2.5mm).

step 4



Clean pipe ends

Remove all dirt, grease, and moisture. A thorough wipe with a clean dry rag is usually sufficient. (Moisture will retard cure, dirt or grease can prevent adhesion).

step 5



Check fit

Check pipe and fittings for dry fit before cementing together. For proper interference fit, the pipe must go easily into the fitting one-quarter to three-quarters of the way. Too tight a fit is not desirable; you must be able to fully bottom the pipe in the socket during assembly. If the pipe and fittings are not out of round, a satisfactory joint can be made if there is a "net" fit, that is, the pipe bottoms in the fitting socket with no interference, without slop.

step 6



Select applicator

Ensure that the right applicator is being used for the size of pipe or fittings being joined. The applicator size should be equal to half the pipe diameter. It is important that a proper size applicator be used to help ensure that sufficient layers of solvent and primer is applied.

step 7
Priming

The purpose of a primer is to penetrate and soften pipe surfaces so that they can fuse together. The proper use of a primer provides assurance that the surfaces are prepared for fusion. Check the penetration or softening on a piece of scrap before you start the installation or if the weather changes during the day. Using a knife or other sharp object, drag the edge over the coated surface. Proper penetration has been made if you can scratch or scrape a few thousandths of an inch of the primed surfaces away. Weather conditions can affect priming and cementing action, so be aware of the following:

- repeated applications to either or both surfaces may be necessary
- in cold weather, more time may be required for proper penetration
- in hot weather, penetration time may be shortened due to rapid evaporation



Primer application

Next, aggressively work the primer on to the end of the pipe to a point 1/2” beyond the depth of the fitting socket. Immediately and while the surfaces are still wet, apply the appropriate International Industries jointing solvent.



Jointing solvent application

Stir the jointing solvent or shake the can before using it. Using the correct size applicator, aggressively work a full even layer of jointing solvent on to the pipe end equal to the depth of the fitting socket. Do not brush it out to a thin paint-type layer, as this will dry within a few seconds.



Primer application

Using the correct applicator, aggressively work the primer into the fitting socket, keeping the surface and applicator wet until the surface has been softened. More applications may be needed for hard surfaces and cold weather conditions. Re-dip the applicator in primer as required. When the surface is primed, remove any puddles of primer from the socket.



Jointing solvent application

Aggressively work a medium layer of jointing solvent into the fitting socket. Avoid puddling the jointing solvent in the socket. On the bell end, the pipe does not coat beyond the socket depth or allow solvent to run down into the pipe beyond the spigot end.



Jointing solvent application

Apply a second full, even layer of jointing solvent on the pipe.



Assembly

Without delay, while the jointing solvent is still wet, assemble the pipe and fittings. Use sufficient force to ensure that the pipe bottoms are in the fitting socket. If possible, twist the pipe a quarter-turn as you insert it.



Assembly

Hold the pipe and fitting together for approximately 30 seconds to avoid push out. After assembly, a joint should have a ring or bead of jointing solvent completely around the juncture of the pipe and fitting. If voids in this ring are present, sufficient jointing solvent was not applied and the joint may be defective.



Joint cleaning

Using a rag, remove the excess jointing solvent from the pipe and fitting, including the ring or bead, as it will needlessly soften the pipe and fitting and does not add to joint strength. Avoid disturbing or moving the joint.



Joint setting & curing

Handle newly assembled joints carefully until the initial set has taken place. Allow curing to take place before pressurizing the system. (Note: in humid weather allow for 50% more curing time.) For initial set and cure times for International Industries jointing solvent, refer to the table

Joint cure schedule

Pipe size (inches) & system operating pressure							
Temperature range (F)	Temperature range (C)	1/2 to 1 1/4		1 1/4 to 2		2 1/2 to 8	
		<160 psi	<160-370 psi	<160 psi	<160-315 psi	<160 psi	
60 to 100	16 to 38	15 min	6 hr	30 min	12 hr	1 1/2 hr	24 hr
40 to 60	4 to 16	20 min	12 hr	45 min	24 hr	4 hr	48 hr
0 to 40	-18 to 4	30 min	48 hr	1 hr	96 hr	72 hr	8 days

* The figures in the table are estimates based on laboratory tests for water applications (chemical applications may require different set times). In damp or humid weather allow 50% more cure time (relative humidity over 60%).

Note 1: Due to the many variables in the field, these figures should be used as a general guideline only.

Note 2: Joint cure schedule is the necessary time needed before pressurizing the system.

Note 3: After using jointing solvent make sure to close the cap of the bottle because jointing solvent is hazardous to health and does not work near a naked flame.

adapting network to linear expansion

Every material has a coefficient of linear thermal expansion, which simply says per degree of temperature change you’re going to have X amount of linear expansion. In the table below, you can see the change in length as the temperature changes for UPVC pipes.

Thermal expansion (inches/100 feet)	
Temperature (°C)	Inch
10	1.80
23	2.70
38	3.60
65	5.40



UPVC pipe

Name: SDR series
Material: PVC pipe grade
Standard: ASTM D - 2241
Color: White
Delivery: Standard 6 & 4 meter lengths

ASTM D - 2241 poly (vinyl chloride) (PVC) Pressure-rated pipe (SDR series)																
Nominal size (inch)	Outside diameter (mm)		SDR series 64		SDR series 41		SDR series 32.5		SDR series 26		SDR series 21		SDR series 17		SDR series 13.5	
	Min	Max	Wall thickness (mm)		Wall thickness (mm)		Wall thickness (mm)		Wall thickness (mm)		Wall thickness (mm)		Wall thickness (mm)		Wall thickness (mm)	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
2	60.2	60.5	-	-	-	-	1.85	2.36	2.31	2.81	2.87	3.378	3.55	4.064	4.47	4.98
3	88.7	89.1	-	-	2.159	2.667	2.74	3.25	3.42	3.93	4.24	4.74	5.23	5.86	6.57	7.366
4	114.1	114.5	1.778	2.286	2.79	3.302	3.5	4.01	4.39	4.9	5.43	6.09	6.73	7.54	8.45	9.47
5	140.1	140.5	2.209	2.71	3.454	3.96	4.34	4.87	5.43	6.12	6.73	7.54	8.3	9.29	10.46	11.7
6	168	168.5	2.64	3.15	4.114	4.623	5.18	5.79	6.47	7.26	8.02	8.99	9.9	11.09	12.44	13.97
8	218.8	219.4	3.4	3.93	5.334	5.969	6.73	7.54	8.43	9.44	10.41	11.65	12.9	14.45		

* Socketed pipes are available in 2, 3, 4, 5, 6 & 8 inch sizes



Name: Pressure class B
Material: PVC pipe grade
Standard: PS 3051/BS 3505
Color: Grey
Delivery: Standard 4 meter/6 meter lengths

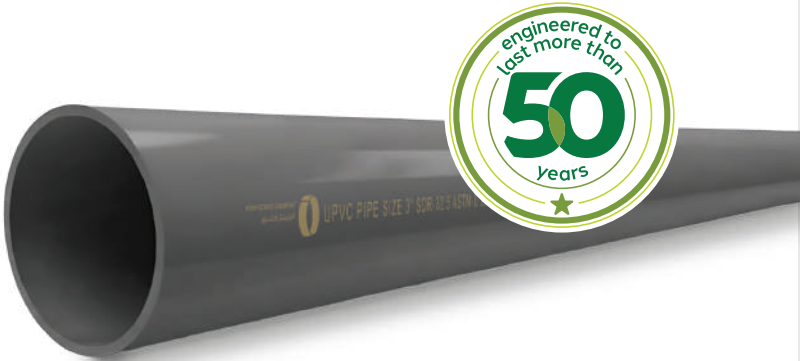
UPVC B class pipe				
Nominal size (inch)	Outside diameter (mm)		Wall thickness (mm)	
	Min	Max	Min	Max
3	88.7	89.1	2.9	3.4
4	114.1	114.5	3.4	4
5	140.0	140.5	3.8	4.4
6	168	168.5	4.5	5.2
8	218.8	219.4	5.3	6.1

* Socketed pipes are available in 2, 3, 4, 5, 6 & 8 inch sizes

Name: Pressure class C
Material: PVC pipe grade
Standard: PS 3051/BS 3505
Color: Grey
Delivery: Standard 4 meter/6 meter lengths

UPVC C class pipe				
Nominal size (inch)	Outside diameter (mm)		wall thickness (mm)	
	Min	Max	Min	Max
2	60	60.5	2.5	3
2-1/2	75.0	75.3	3	3.5
3	88.7	89.1	3.5	4.1
4	114.1	114.5	4.5	5.2
5	140	140.4	5.5	6.4
6	168	168.5	6.6	7.6
8	218.8	219.4	7.8	9

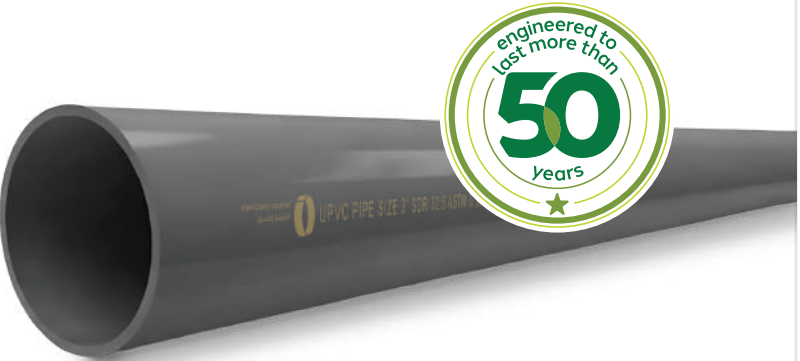
* Socketed pipes are available in 2, 3, 4, 5, 6 & 8 inch sizes



Name: Pressure class D
Material: PVC pipe grade
Standard: PS 3051/BS 3505
Color: Grey
Delivery: Standard 4 meter/6 meter lengths

UPVC D class pipe				
Nominal size (inch)	Outside diameter (mm)		Wall thickness (mm)	
	Min	Max	Min	Max
2	60.00	60.50	3.1	3.7
2-1/2	75.0	75.3	3.9	4.5
3	88.70	89.10	4.6	5.3
4	114.10	114.50	6	6.9
5	140.00	140.40	7.3	8.4
6	168.0	168.5	8.8	10.2
8	218.8	219.4	10.3	11.9

* Socketed pipes are available in 2, 3, 4, 5, 6 & 8 inch sizes



Name: Pressure class E
Material: PVC pipe grade
Standard: PS 3051/BS 3505
Color: Grey
Delivery: Standard 4 meter/6 meter lengths

UPVC E class pipe				
Nominal size (inch)	Outside diameter (mm)		Wall thickness (mm)	
	Min	Max	Min	Max
2	60.00	60.50	3.9	4.5
2-1/2	75.0	75.3	4.8	5.5
3	88.70	89.10	5.7	6.6
4	114.10	114.50	7.3	8.4
5	140.00	140.40	9	10.4
6	168.00	168.5	10.8	12.5
8	218.8	219.4	12.6	14.5

* Socketed pipes are available in 2, 3, 4, 5, 6 & 8 inch sizes

Name: UPVC drainage & sewerage
Material: PVC pipe grade
Standard: BS EN 1401-1
Color: Grey
Delivery: Standard 6 & 4 meter lengths

BS EN 1401-1: 2019 Unplasticized poly(vinyl chloride) (PVC-U)									
Nominal size (mm)		SN 2		SN 4		SN 8		SN 16	
		SDR 51		SDR 41		SDR 34		SDR 27,6	
		Wall thickness (mm)		Wall thickness (mm)		Wall thickness (mm)		Wall thickness (mm)	
Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
110	110.3	—	—	3.20	3.8	3.2	3.8	4	4.6
125	125.3	—	—	3.20	3.8	3.7	4.3	4.6	5.3
160	160.4	3.2	3.8	4.00	4.6	4.7	5.4	5.8	6.6
200	200.5	3.9	4.5	4.90	5.6	5.9	6.7	7.3	8.3
NOTE : The recommended colour of pipes and fittings is orange-brown (RAL 8023 1)) or grey (RAL 7037 1)).									



Name: UPVC soil & waste
Material: PVC pipe grade
Standard: DIN-EN 1329-1
Color: Grey
Delivery: Standard 6 & 4 meter lengths

DIN-EN 1329-1 Unplasticized poly(vinyl chloride) (PVC-U)					
Nominal size (mm)	Out side diameter (mm)			Wall thickness (mm)	
	Min	Mean	Max	Min	Max
63	63	63.1	63.2	3	3.5
75	75	75.15	75.3	3	3.5
90	90	90.15	90.3	3	3.5
110	110	110.15	110.3	3.2	3.8
125	125	125.15	125.3	3.2	3.8
140	140	140.2	140.4	3.2	3.8
160	160	160.2	160.4	3.2	3.8
180	180	180.2	180.4	3.6	4.2
200	200	200.2	200.4	3.9	4.5



UPVC fittings ASTM D2466, SCH 40



Elbow 90	
Item code	Size inch
UF4-E90/F1	4
UF3-E90/F1	3



Plug elbow 90	
Item code	Size inch
UF4-PE90/F1	4
UF3-PE90/F1	3



Plug tee 90	
Item code	Size inch
UF4-PT/F1	4
UF3-PT/F1	3



End cap for floor trap	
Item code	Size inch
UPF11/2-FTC/F1	1-1/2
UPF2-FTC/F1	2
UPF3-FTC/F1	3



Yee 45	
Item code	Size inch
UF4-Y/F1	4
UF3-Y/F1	3



Double tee	
Item code	Size inch
UF3-DT/F1	3
UF4-DT/F1	4



Vent covel	
Item code	Size inch
UF4-VC/F1	4



Tee 90	
Item code	Size inch
UF2-T/F1	2
UF3-T/F1	3
UF4-T/F1	4
UF6-T/F1	6



Elbow 45	
Item code	Size inch
UF2-E45/F1	2
UF3-E45/F1	3
UF4-E45/F1	4



P trap	
Item code	Size inch
UPF-3-PTRPS/F1	3
UPF-4-PTRPS/F1	4



End cap	
Item code	Size inch
UF2-EC/F1	2
UF3-EC/F1	3
UF4-EC/F1	4
UF6-EC/F1	6



Reducing bush	
Item code	Size inch
UF4-2RB/F1	2
UF4-3RB/F1	3
UF6-4RB/F1	4



Reducer socket

Item code	Size inch
UPF-4-2RS/F1	4x2
UPF-4-3RS/F1	4x3
UPF-6-4RS/F1	4x6



Socket

Item code	Size inch
UF3-S/F1	3
UF4-S/F1	4



Reducing elbow

Item code	Size inch
UF4-3RE90/F1	4x3



Reducing tee 90

Item code	Size inch
UF3-2RT/F1	3x2
UF4-2RT/F1	4x2
UF4-3RT/F1	4x3



Reducing yee 45

Item code	Size inch
UF4-3RY/F1	4x3



Plug cap

Item code	Size inch
UPF3-2PC/F1	3x2
UPF4-2PC/F1	4x2
UPF4-3PC/F1	4x3



Floor trap

Item code	Size inch
UF5-3FT/F1	5x3



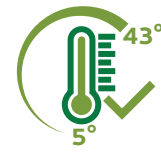
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