

## PLATINUM uPVC SWR PIPES & FITTINGS



### ABOUT SUDHAKAR GROUP

SUDHAKAR is committed to manufacture high-quality Plastic Piping Systems. Our products are not only the pipelines, but lifelines with the mission to achieve sustainable and profitable growth through innovation and world-class products. Our services add exceptional value to our customers and act as a solution provider for all types of piping systems.

# SUDHAKAR uPVC SWR PIPES

## uPVC SWR PIPES WITH GROOVED SOCKETS FOR RUBBER RING JOINTING

SUDHAKAR uPVC SWR PLATINUM RINGFIT JOINTING PIPES are manufactured in accordance with Bureau of Indian standards specifications IS 13592:2013 and other International Standards DIN, BS, ASTM. SUDHAKAR manufacture uPVC SWR Pipes in the range of

Type A, B – 75mm, 90mm, 110mm & 160mm nominal diameters

## uPVC SWR PIPES WITH SLIDING SOCKET FOR SOLVENT CEMENT JOINTING

SUDHAKAR uPVC SWR PLATINUM SELFIT PIPES are manufactured in accordance with Bureau of Indian Standards Specification IS 13592:2013 and other International standards DIN, BS, ASTM. SUDHAKAR manufacture uPVC SWR Pipes in the range of

Type A, B - 40mm, 50mm, 75mm, 110mm & 160mm nominal diameters

Pipes are available in 0.6 meters (2ft), 1.2 meters (4ft), 1.8 meters (6ft) and 3 meters (10ft) with Single side Socket and Double side Socket in all sizes.

**Type A** — For use in Ventilation pipework and Rainwater applications.














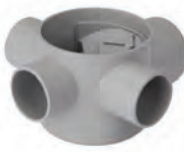


**Type B** — For use in Soil and Waste discharge systems.

## DIMENSIONS OF uPVC SWR PIPES & FITTINGS

SWR PIPES - IS : 13592									SWR FITTINGS - IS : 14735				
Nominal Outside Diameter	Mean Outside Diameter		Outside Diameter at any point		Wall Thickness Type "A"		Wall Thickness Type "B"		Nominal Outside Diameter	Wall Thickness at Plain End		Wall Thickness at Socket	
MM	Min	Max	Min	Max	Min	Max	Min	Max	MM	Min	Max	Min	Max
40	40	40.3	39.5	40.5	1.8	2.2	3.2	3.8	40	3.2	3.8	2.4	2.9
50	50	50.3	49.4	50.6	1.8	2.2	3.2	3.8	50	3.2	3.8	2.4	2.9
75	75	75.3	74.1	75.9	1.8	2.2	3.2	3.8	75	3.2	3.8	2.4	2.9
90	90	90.3	88.9	91.2	1.9	2.3	3.2	3.8	90	3.2	3.8	2.4	2.9
110	110	110.4	108.6	111.4	2.2	2.7	3.2	3.8	110	3.2	3.8	2.4	2.9
160	160	160.5	158.0	162.0	3.2	3.8	4.0	4.6	160	4.0	4.6	3.0	3.6



## SUDHAKAR uPVC SWR FITTINGS

				
Coupler	Plain Bend 87.5°	Door Bend 87.5°	Bend 45°	Single Plain Tee
				
Single Door Tee	Double Plain Tee	Cleansing Pipe	Single Plain Y	Single Door Y
				
Reducing Single Plain Y	Double Door Y	Reducer	Coupler (Selfit)	Bend 45° (Selfit)
				
Single Door Tee (Selfit)	Door Bend-87.5° (Selfit)	Multi Floor Trap W/O Jali	P-Trap	Nahani Trap W/O Jali

### uPVC SWR FITTINGS WITH GROOVED SOCKETS FOR RUBBER RING JOINTING

SUDHAKAR uPVC SWR PLATINUM RINGFIT Fittings are manufactured in accordance with Bureau of Indian standards specification IS 14735. SUDHAKAR uPVC SWR Fittings of different shapes are available to install SWR system in the sizes of 75mm, 90mm, 110mm & 160mm

### uPVC SWR FITTINGS WITH SLIDING SOCKET FOR SOLVENT CEMENT JOINTING

SUDHAKAR uPVC SWR PLATINUM SELFIT Fittings are manufactured in accordance with Bureau of Indian standards specification IS 14735. SUDHAKAR uPVC SWR Fittings of different shapes are available to install SWR system in the sizes of 75mm, 110mm & 160mm

# SALIENT FEATURES & ADVANTAGES



**LIGHT WEIGHT**  
**SUDHAKAR** UV Resistant uPVC SWR Pipes and Fittings are made of virgin PVC resin. They are lightweight, hence easy to handle and install.



**LONG LIFE**  
**SUDHAKAR** UV Resistant uPVC SWR Pipes and Fittings being non-toxic, non-corrosive, and resistant to chemicals have prolonged life.



**DURABILITY**  
UV Resistant pigments used in the compound enables **SUDHAKAR** UV Resistant uPVC SWR Pipes and Fittings to withstand all climatic conditions.



**CHEMICAL RESISTANT**  
Unprecedented chemical resistance to acids and chemicals makes it suitable for drainage and other industrial applications.



**HIGH FLOW RATE**  
Uniform wall thickness, smooth internal surface gives a smooth, silent and quick flow of liquids and waste materials.



**LOW INSTALLATION COST**  
Light weight, flexibility and use of prefabrication techniques can reduce the installation cost substantially.



**LEAK PROOF**  
**SUDHAKAR** Pipes and Fittings are 100% leak proof due to the perfect quality control measures adopted. High-tech machinery, accurate moulds, dies and precision components take care of this.



**SHOCK PROOF**  
Non-conductivity of electricity ensures complete safety.



**CUSTOMER CARE**  
**SUDHAKAR** has an excellent team to provide technical assistance and training. A wide range of products to suit every need, nationwide dealership network and service backup facilities.



**COST-EFFECTIVE**  
**SUDHAKAR** UV Resistant uPVC SWR Pipes and Fittings are superior to the conventional drainage systems like CI, AC, Mud Pipes and Fittings. They are 30%-40% cost-effective than conventional CI drainage systems.



**HEAT RESISTANT**  
**SUDHAKAR** UV Resistant uPVC SWR Pipes and Fittings can withstand temperatures ranging from 5 °C - 60 °C.

## QUALITY STANDARDS

### MECHANICAL PROPERTIES

#### RESISTANCE TO EXTERNAL BLOWS AT 0° (IMPACT TEST):

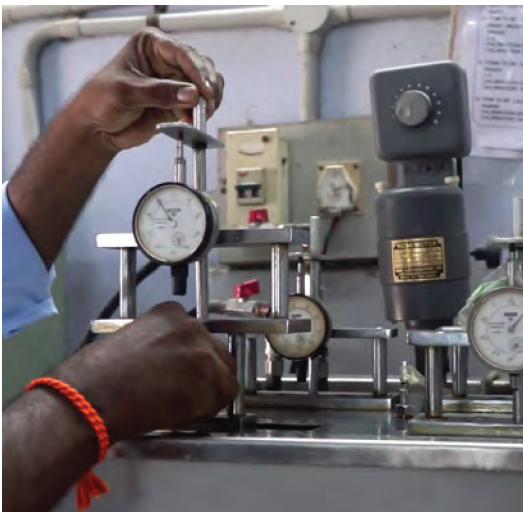
When tested by the method prescribed in IS 12235 the pipe shall have a true impact rate of not more than 10% In the case of socket end pipes, this test shall be carried out on the plain portion of the pipes taken at least 100 mm away from the root of the socket.

#### TENSILE STRENGTH:

When determined in accordance with the method described in IS 12235 the tensile strength at break shall not be less than 45 Mpa.

#### AXIAL SHRINKAGE (FOR TYPE B PIPES ONLY):

The axial shrinkage shall not exceed 2%



PHYSICAL & CHEMICAL CHARACTERISTICS



VISUAL APPEARANCE

The internal and external surface of the pipes shall be smooth and clean, and free from grooving and other defects. The end shall be clearly cut and shall be square with the axis of the pipe.



REVERSION TEST

When tested by the method described in IS 12235, a length of pipe sample of 200 ± 20 mm shall not alter in length by more than 5%. In the case of socket ended pipes, this test shall be carried out on the plain portion of a pipe taken at least 100 mm away from the root of the socket.



VICAT SOFTENING TEMPERATURE

When determined in accordance with IS 12235, the vicat softening temperature of the specimen shall not be less than 79°C



Stress Relief Tent:

This test shall be carried out for socket end pipes only. When tested by the method described in IS 12235, for the test specimens shall not show blisters, excessive delamination or cracking or signs of weld line splitting. The weld line or lines may become pronounced during the test, but this shall not be deemed to constitute failure.



Water tightness of joint:

Assembly of SWR pipes and fitting joined with solvent cement for SELFIT pipes and fittings or rubber rings for SEALRING (Grooved sockted pipes and fittings) and tested for water leakage at a pressure of 0.05 Mpa for a period of 15 minutes and there should be no leakage.

RESISTANCE TO DICHLOROMETHANE AT SPECIFIED TEMPERATURE

When tested in accordance with method described in IS 12235 there shall be no attack observed on any part of the surface of the test piece.

APPLICATION AREAS

SUDHAKAR UPVC SWR Pipes and fittings are used for Soil and Waste discharge system including Ventilation and Rainwater system in

- Residential Buildings
- High Rise Buildings
- Commercial Complexes
- Hospitality Industry
- Hospitals
- Office and Industrial Complexes
- Water Treatment Plants
- Chemical & Pharma Industries

PRECAUTIONS

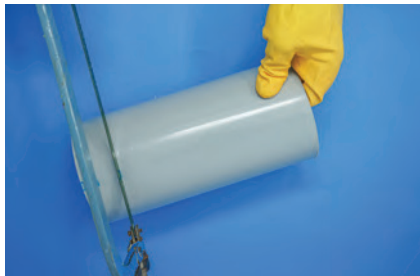
- Avoid misalignment of vertical SWR Pipe stacks and incorrect spacing of clips.
- Keep a gap of 10mm to 12mm in between SWR Pipe and Fitting joint to accommodate thermal expansion and contraction of the system.
- Please take caution when used with aromatic and chlorinated materials.
- SWR pipes are to be stored on a flat covered platform stacking the pipes horizontally up to a height of 1.5mtr to 2.0mtr.



# INSTALLATION PROCEDURE

## JOINTING PREPARATION

- 01** Cut the pipe square  
Chamfer the end of the pipe.



- 02** Remove all burrs from internal and external surfaces.



- 03** Mark a line at a distance equivalent to the socket depth and clean the surface around it.



## SOLVENT CEMENT JOINTING

- 01** Apply the uniform coat of Sudhakar solvent cement on the external surface of the pipe and a lighter coat on the internal surface of the fittings.



- 02** Insert the pipe end into the socket of the fitting and push it in up to the mark.



- 03** Remove the excess solvent cement and hold the joint firmly in position for 30 seconds to dry.



## RUBBER RING JOINTING

- 01** Check the rubber seal ring fitment in pipe and fitting socket groove.



- 02** Apply Sudhakar Lubricant on the external surface of the pipe and on the rubber gasket.



- 03** Push the pipe fully into the socket just 12mm away from the socket depth for thermal expansion and contraction.



Manufacturing Units:

**Sudhakar PVC Products Pvt. Ltd.**

Balaram Thanda, Near Industrial Estate, Suryapet, Telangana - 508 213.

Plant Locations: Suryapet | Ballari | Brahmapur | Muppireddypally | Yeguvarajupalem | Ujjain

info@sudhakarind.com | www.sudhakarind.com | Toll Free No: 1800 120 000 066