



FinOlex
PIPES

SWR
PIPES & FITTINGS



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SWR PIPES & FITTINGS

Finolex has always delivered superior quality piping systems & our SWR range that discharges waste water without any leakage is an excellent example of the finesse we bring to our products. SWR pipes and fittings, available in various sizes ranging from 40mm to 160mm also come with features such as offering extreme climate resistance and a smooth inner surface to facilitate anti-clogging, which shows that we don't leave any stone unturned.

Finolex SWR pipes and fittings are used for non-pressure plumbing applications like soil, waste and rain water management. They come in two primary types, type A for rainwater and vent and type B for soil, waste and drainage.

These pipes and fittings are available in two types of sockets – Selfit & with Integrated Rings.

SELFIT SWR PIPES

Conforming to IS: 13592

Finolex Selfit SWR pipes are manufactured in a way that one end of the pipe is plain, while the other is self-socketed which facilitates ease in jointing by the use of Solvent Cement.

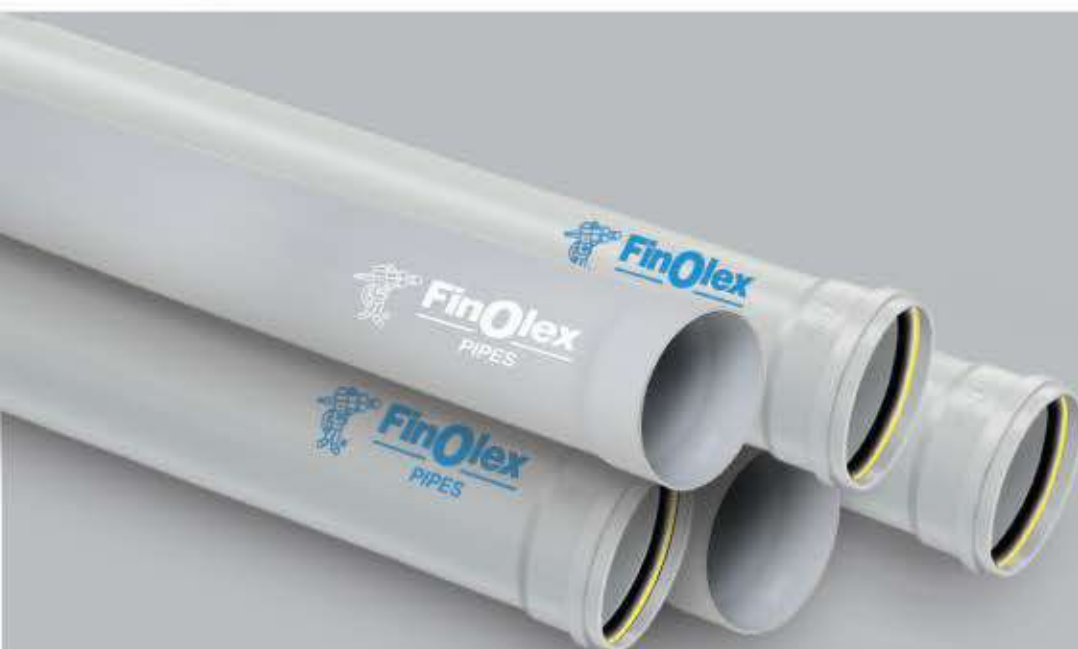
SWR PIPES WITH INTEGRATED RINGS

Conforming to IS: 13592

Finolex SWR pipes with Integrated Rings support easy installation as the Integrated Ring pre-fitted in the groove of the socket remains permanently positioned. The joint is made simply by pushing the spigot end into the socket end without the use of any Solvent Cement. Finolex lubricant should be used for easy insertion. The ring forms a watertight joint and absorbs the linear expansion and contraction, keeping the seal intact.

DIMENSIONS OF SWR PIPES

Nominal Diameter (mm)		40 A	40 B	50 A	50 B	63 A	63 B	75 A	75 B	90 A	90 B	110 A	110 B	160 A	160 B
Mean Outside Diameter of Pipe (mm)	Min.	40.0	40.0	50.0	50.0	63.0	63.0	75.0	75.0	90.0	90.0	110.0	110.0	160.0	160.0
	Max.	40.3	40.3	50.3	50.3	63.3	63.3	75.3	75.3	90.3	90.3	110.4	110.4	160.5	160.5
Wall Thickness (mm)	Min.	1.8	3.2	1.8	3.2	1.8	3.2	1.8	3.2	1.9	3.2	2.2	3.2	3.2	4.2
	Max.	2.2	3.8	2.2	3.8	2.2	3.8	2.2	3.8	2.3	3.8	2.7	3.8	3.8	4.6



SWR SELFIT FITTINGS

As per IS: 14735

BEND 87.5° (Plain/Door):



To collect waste water from the internal pipeline and divert it to the main pipeline at an angle of 87.5°. For cleaning purposes, Bend 87.5° is also available in a door option.

50	63	75	90	110	160
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BEND 45°:



Used as a shoe for a rain water drainage line & can also provide a 45° turn to the pipeline.

40	50	63	75	90	110	140	160
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CLEANING PIPE:



Used between a vertical line to facilitate cleaning and pipe maintenance.

75	110	160	-	-
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COUPLER:



Connects two lengths of pipes.

63	75	90	110	160
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GULLY TRAP:



To prevent foul odours emitted from the sewer from reaching building and apartments.

160 x 110 (Single Outlet)	160 x 110 (Double Outlet)
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SQUARE GULLY TRAP (with jali):



To prevent foul odours emitted from the sewer from reaching buildings and apartments.

110MM (with jali)

SQUARE GULLY TRAP (without jali):



To prevent foul odours emitted from the sewer from reaching buildings and apartments.

110MM (without jali)

MULTIFLOOR TRAP:



For multiple draining i.e. bathrooms, washbasin, washing machine, bathtub etc. which has three additional inlets that can be opened as and when required.

110 (Shallow)	110 (shallow with end cap)
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MULTIFLOOR TRAP DEEP (7"):



For multiple drawing i.e. bathrooms, washbasin, washing machine, bathtub etc. which has three additional inlets provided with socket plug that can be opened as and when required.

110 X 75 X 50/40

NAHANI TRAP/ FLOOR TRAP:



To drain wastewater from bathrooms/ wash basins and convey to the main pipeline.

110 x 75	110 x 90	110 x 110	-
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PIPE CLIP:



To fix/secure the pipeline to a wall or a flat surface.

75	90	110	160	-
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REDUCER (Eccentric):



To reduce a main line.

110 x 75	110 x 90	160 x 110
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SADDLE STRIP:



To connect wash basin outlets to the main soil line.

75	110	160 (Fabricated)
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TEE (Plain/Door):



To connect a lateral soil/waste pipe to the main vertical at an angle of 87.5°. For cleaning purposes, Tee is also available in a door option.

50	63	75	90	110	160
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REDUCING TEE (Plain/Door):



To connect a reducing soil/waste pipeline to the main pipeline at an angle of 87.5°. For cleaning purposes, Reducing Tee is also available in a door option.

90 x 75	110 x 75	160 x 110	-
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CROSS TEE (Plain/Door):



To connect two lateral soil/waste pipelines to the main line at an angle of 87.5°. For cleaning purposes, Cross tee is also available in a door option.

75	110	-	-	-
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SWEPT TEE (Plain/Door):

To connect a lateral soil/waste pipe to the main vertical line. For cleaning purposes, SWEPT Tee is also available in a door option.

75	110
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DOUBLE Y (Plain/Door):

To connect two branch soil/waste pipelines to the main vertical pipeline at an angle of 45°. For cleaning purposes, Double Y is also available in a door option.

75	110	160	-	-
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P TRAP:

To create a water seal and ensure efficient functioning of the drainage system.

75 x 75	125 x 110 Short
125 x 110 Long	110 x 110 short
110 x 110 Long	-

BEND (Double Socket) (Plain/Door):

To collect waste water from the internal pipeline and divert it to the main pipeline. Bend is provided with inner socket at both ends. For cleaning purpose, Bends are also available in a door option.

40	50	63	75	90	110
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Q TRAP:

To create a water seal and ensure efficient functioning of the drainage system.

125 x 110	110 x 110	-
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TEE (Double Socket) (Plain/Door):

To connect a lateral soil/ waste pipe to the main vertical line. Tee is provided with inner socket at all three ends. For cleaning purpose tees are also available in a door option from 63mm to 110mm.

40	50	63	75	90	110
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S TRAP:

To create a water seal and ensure efficient functioning of the drainage system.

125 x 110	110 x 110
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SOCKET PLUG:

To plug the Socket end of pipe line and fittings.

75	110
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VENT COWL:

To allow foul gases generated in the system to escape. It is used as a cap on top of the vertical line.

63	75	90	110	160
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HEIGHT RISER:

Height Risers are used to raise the height of floor traps. These Height Risers are available in two different designs.



Spigot are provided at both ends.

110 x 50/40

WC CONNECTOR:

To connect a WC Pan to the soil pipe.

110	-	-
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One end is Spigot type while other is Socket end.

110 x 75 x 50

Y (Plain/Door):

To connect a branch soil/waste pipeline to the main vertical pipeline at an angle of 45°. For cleaning purposes, Y is also available in a door option.

63	75	90	110	160
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SINGLE Y - EQUAL SOCKET (PLAIN /DOOR):

To connect a branch soil/waste pipeline to the main vertical pipeline at an angle of 45°. For cleaning purposes, Y is also available in a door option. Y is provided with inner sockets at all three ends.

50	-
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REDUCING Y (Plain/Door):

To connect a reducing soil/waste line to the main line at an angle of 45°. For cleaning purposes, Reducing Y is also available in a door option.

110 x 75	160 x 110	-
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SINGLE REVERSE Y:

To connects two branches at an angle of 45° with invert angle.

75	-
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SWR FITTINGS WITH INTEGRATED RINGS

As per IS: 14735

BEND 87.5° (Plain/Door):



To collect waste water from internal pipeline & divert it to the main pipeline at an angle of 87.5°. For cleaning purposes, Bend 87.5° is also available in a door option.

75	90	110	160	-
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BEND 45°:



Used as a shoe for rain water drainage line. Can also be used for providing a 45° turn to the pipeline.

75	90	110	160	-
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CLEANING PIPE:



Used between a vertical line to facilitate cleaning and pipe maintenance.

75	110	160	-	-
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COUPLER:



To connect two lengths of pipes.

75	90	110	160	-
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REDUCER:



To reduce the main line.

90 x 75	110 x 75	110 x 90	160 x 110
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TEE (Plain/Door):



To connect a lateral soil/waste pipe to the main vertical line at an angle of 87.5°. For cleaning purposes, Tee is also available in a door option.

75	90	110	160	-
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REDUCING TEE (Plain/Door):



To connect a reducing soil/waste line to the main line at an angle of 87.5°. For cleaning purposes, Reducing Tee is also available in a door option.

90 x 75	110 x 75	160 x 110
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CROSS TEE (Plain/Door):



To connect two lateral soil/waste pipes to the main line at an angle of 87.5°. For cleaning purposes, Cross Tee is also available in a door option.

75	90	110	160	-
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DOUBLE Y (Plain/Door):



To connect two branch soil/waste pipelines to the main vertical line at an angle of 45°. For cleaning purposes, Double Y is also available in a door option.

75	90	110	160	-
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SWEPT TEE (Plain/Door):



To connect a lateral soil/waste pipe to the main vertical line. For cleaning purposes, Swept tee is also available in a door option.

75	110	160
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REDUCING SWEPT TEE (Plain/Door):



To connect a lateral soil/waste pipe to the main vertical line. For cleaning purposes, Swept Reducing tee is also available in a door option.

110 x 75

Y (Plain/Door):



To connect a branch soil/waste pipeline to the main vertical line at an angle of 45°. For cleaning purposes, Y is also available in a door option.

75	90	110	160	-
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REDUCING Y (Plain/Door):



To connect a reducing soil/waste line to the main line at an angle of 45°. For cleaning purposes, Reducing Y is also available in a door option.

110 x 75	160 x 110
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FEATURES & BENEFITS



Leak-proof and maintenance free joints.



Non-reactive to acids, alkalis, effluents, salt and minerals.



UV stabilized to ensure long life.



Does not support fire and provides good resistance to combustion.



High degree of accuracy at manufacturing ensures dimensional control.



Smooth surface ensures high flow rates and no scaling, depositions or choking.



Lightweight facilitates easy and inexpensive transport and installation.



Corrosion and rust proof which confirms longer durability of the product.

ADVANTAGES OF SWR PIPES & FITTINGS WITH INTEGRATED RINGS



Comes with pre-fitted integrated rings for faster installation.



Integrated rings are permanently positioned at the manufacturing stage itself which ensures easy installation.



Ensures leak-proof joints that sustain thermal contraction and expansion.



Unlike conventional rubber rings which may slip out of the groove during installation, the pre-fitted ring holds itself and stays attached to the groove by the plastic reinforcement that enables the joints to become 100% leak-proof.



The elastomeric EPDM rings ensures hydraulic tightness, enables the joints to withstand high pressures (5 kgf/cm²).



Joints can be easily re-opened later for any adjustment, if required.



Fittings with integrated rings are manufactured using PVC – U Granules that adds a glossy finish to the product giving it a high aesthetic value.

APPLICATION



An ideal replacement for CI and GI piping.



Waste discharge system in residences, commercial complexes, resorts, hospitals, academic institutes.



Rain water transportation and harvesting for residential & commercial buildings.



Venting of gases and odours in domestic plumbing.



Non-pressure industrial drainage application (based on chemical compatibility).

THERMAL EXPANSION

SWR pipes and fittings are not concealed and are always exposed to external surfaces and sunlight. The diurnal temperature varies at many places by 5° C to 20° C, which naturally leads to expansion & contraction of pipes. This thermal expansion is required to be taken into consideration in the design of a sanitation system.

The expansion & contraction occurs more in vertical lines. Therefore SWR pipes with integrated rings are most suitable for a vertical stack. It is necessary to maintain an expansion gap at rubber ring joints to allow movement of pipe due to thermal expansion. Measure the socket length by measuring tape and mark along the pipe. During installation push the pipe firmly into the socket fitted with integrated ring till the gap between the mark on the spigot and socket is about 10mm to allow for thermal expansion.

Finolex recommends Selfit jointing for all horizontal wastewater lines. Selfit fittings make the system cost effective without affecting the performance. Horizontal pipes require closer support compared to vertical pipes.

Adequate support must be provided to vertical as well as horizontal pipelines. Pipe brackets/pipe clips must be used to anchor expansion joints.

Pipe Clip Support Spacing Distance

Pipe Size (mm)	75	90	110	160
Spacing For Horizontal Pipe Size (mtrs)	1.0	1.0	1.0	1.2
Spacing For Vertical Pipe Size (mtrs)	1.8	1.8	1.8	1.8

SOLVENT CEMENT & LUBRICANT

SOLVENT CEMENT



PVC-U Solvent Cement for SWR applications
(Manufactured as per IS: 14182 and meets
ASTM D 2564 standard)

Size	ml	100	250	500	1000
	Container	Tin	Tin	Tin	Tin

RUBBER LUBRICANT



FinDex Rubber lubricant is used for installation of
SWR pipes and fittings with integrated rings.

Size	gms	50	100	250	500	1000
	Container	Plastic container				

JOINTING

• For Selfit Pipes & Fittings:

1. Measuring



2. Cutting



3. Deburring & Chamfering



4. Cleaning



5. Check Dry Fit



6. Solvent Cement Application



7. Assembly



• For Pipes & Fittings with Integrated Rings:

1. Measuring



2. Cutting



3. Deburring & Chamfering



4. Cleaning



5. Check for Integrated Ring



6. Lubricant Application



7. Assembly



CERTIFICATIONS & APPROVALS

- Pipes are manufactured conforming to IS: 13592 (Bureau of Indian Standards).
- Fittings are manufactured as per IS: 14735 (Bureau of Indian Standards).
- Approved by Central Institute of Plastics Engineering & Technology (CIPET).
- Approved by Municipal Corporation of Greater Mumbai (MCGM).



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