

FinOlex
PIPES

40 YEARS OF
FinOlex
PIPES



CASING 
PIPES

PRODUCT CATALOGUE

CASING PIPES

Finolex offers a wide range of casing and ribbed screen pipes which are manufactured using a special PVC-U compound. This makes them ideal for transportation of hard, salty, sandy, or chemically aggressive water. This range of PVC-U plain casing and ribbed screen pipes are specially designed to protect water lines from soil conditions.

This distinctive design makes them ideal for domestic domestic, industrial, public, and mining wells. These pipes are also anti-corrosive, which prevents chemicals in the soil from affecting them.

Finolex casing and ribbed screen pipes are far superior to conventional metal pipes as they are lightweight, corrosion free and long lasting. These pipes do not alter the water quality and are recyclable. Casing pipes are easy to install as the threaded ends make sure that the pipes can be interlocked without the use of solvent cement or adhesives.

Our stringent quality assurance approach across all stages of manufacturing gives the product a high reliability, making Finolex casing pipes a preferred choice for farmers, users in domestic and commercial establishments, and quality conscious people across the country.

Our wide range of casing and ribbed screen pipes, CS (Shallow well casing), CM (Medium well casing) CD (Deep well casing) and Ribbed Screen (RS & RDS) pipes are available in 40 mm (1.1/2") to 250 mm (10") sizes for different well depths. Our varied range of casing pipes conforms to the IS 12818 and ASTM D 1785 standards, and caters to diverse borewell requirements.

DIMENSIONS OF 'CS' CASING PLAIN PIPE

IS 12818

Type	CS - WELL DEPTH UPTO 80 METERS				
Size in mm	150	175	200	250	
Size in inch	6"	7"	8"	10"	
Standard Pipe Length in Meters	2.9,3	2.9,3	2.9,3	3	
Mean OD of Pipe (mm)	Min	165.0	200.0	225.0	280.0
	Max	165.4	200.5	225.5	280.5
Wall Thickness (mm)	Min	5.7	7.0	7.6	9.6
	Max	6.5	7.8	8.8	11.0

DIMENSIONS OF 'CM' CASING PLAIN PIPE

IS 12818

Type	CM - WELL DEPTH BETWEEN 80-250 METERS									
Size in mm	40	50	80	100	125	150	175	200	250	
Size in inch	1½"	2"	3"	4"	5"	6"	7"	8"	10"	
Standard Pipe Length in Meters	3,6	3	3,6	2.9,3	2.9,3	2.9,3	2.9,3	2.9,3	3	
Mean OD of Pipe (mm)	Min	48.0	60.0	88.0	113.0	140.0	165.0	200.0	225.0	280.0
	Max	48.2	60.2	88.3	113.3	140.4	165.4	200.5	225.5	280.5
Wall Thickness (mm)	Min	3.5	4.0	4.0	5.0	6.5	7.5	8.8	10.0	12.5
	Max	4.0	4.6	4.6	5.7	7.3	8.5	9.8	11.2	14.0

Batch number logic:

Year	Month	Day	Mc.No.	Shift
xxxx	xx	xx	xxx	x

For example, the batch number of pipes produced on Mc. no. 20 on 1st June 2021 in the 1st shift will be 202106010201



PLAIN CASING PIPE

DIMENSIONS OF 'CM' & 'CS' CASING - PLAIN PIPE

Type		CS				
Size in mm		125	180	213	225	240
Size in inch		5"	7½"	8½"	9"	9½"
Standard Pipe Length in Meters		2.9,3,5	2.9,3	2.9,3	2.9,3	3
Mean OD of Pipe (mm)	Min	140.0	180.0	234.0	250.0	240.0
	Max	140.4	180.6	234.6	250.8	240.8
Wall Thickness (mm)	Min	5.2	6.1	8.1	8.5	8.3
	Max	6.0	6.8	9.0	9.8	9.2

Type		CM				
Size in mm		113	180	213	225	240
Size in inch		4½"	7½"	8½"	9"	9½"
Standard Pipe Length in Meters		2.9,3	2.9,3	2.9,3	2.9,3	3
Mean OD of Pipe (mm)	Min	125.0	180.0	234.0	250.0	240.0
	Max	125.5	180.6	234.6	250.8	240.8
Wall Thickness (mm)	Min	5.5	8.1	10.5	11.2	10.7
	Max	6.0	8.8	11.5	12.7	12.2

DIMENSIONS OF 'CM' & 'CS' CASING - SLOTTED PIPES

Type		CM (2MM) SLOTTED								
Size in mm		100*	113	125*	150*	175*	180	200*	213	225
Size in inch		4"	4½"	5"	6"	7"	7½"	8"	8½"	9"
Standard Pipe Length in Meters		3	3	3	3	3	3	3	3	3
Mean OD of Pipe (mm)	Min	113.0	125.0	140.0	165.0	200.0	180.0	225.0	234.0	250.0
	Max	113.3	125.4	140.4	165.4	200.5	180.6	225.5	234.6	250.8
Wall Thickness (mm)	Min	5.0	5.5	6.5	7.5	8.8	8.1	10.0	10.5	11.2
	Max	5.7	6.0	7.3	8.5	9.8	8.8	11.2	11.5	12.7

(Note: * marked sizes are manufactured as per IS 12818.)

Type		CS (2MM) SLOTTED						
Size in mm		125	150*	175*	180	200*	225	250*
Size in inch		5"	6"	7"	7½"	8"	9"	10"
Standard Pipe Length in Meters		3	3	3	3	3	3	3
Mean OD of Pipe (mm)	Min	140.0	165.0	200.0	180.0	225.0	250.0	280.0
	Max	140.4	165.4	200.5	180.6	225.5	250.8	280.5
Wall Thickness (mm)	Min	5.2	5.7	7.0	6.1	7.6	8.5	9.6
	Max	6.0	6.5	7.8	6.8	8.8	9.8	11.0

(Note: * marked sizes are manufactured as per IS 12818.)

Type		CM (0.5MM) SLOTTED				
Size in mm		113	125*	150*	175*	200*
Size in inch		4½"	5"	6"	7"	8"
Standard Pipe Length in Meters		3	3	3	3	3
Mean OD of Pipe (mm)	Min	125.0	140.0	165.0	200.0	225.0
	Max	125.4	140.4	165.4	200.5	225.5
Wall Thickness (mm)	Min	5.5	6.5	7.5	8.8	10.0
	Max	6.0	7.3	8.5	9.8	11.2

(Note: * marked sizes are manufactured as per IS 12818.)



**CM CS SLOTTED
CASING PIPE**

DIMENSIONS OF 'RS' - RIBBED SCREEN PIPES

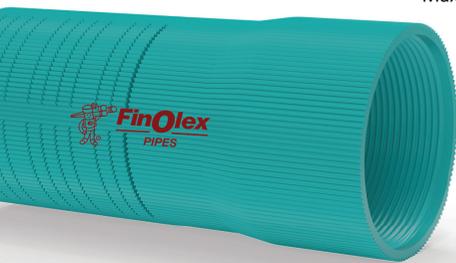
Conforming to IS 12818

Type	RS - WELL DEPTH BETWEEN 80-250 METERS				
Size in mm		100	125	150	200
Size in inch		4"	5"	6"	8"
Standard Pipe Length in Meters		3	3	2.9,3	2.9,3
Mean OD of Pipe (mm)	Min	117.0	144.0	169.0	229.0
	Max	117.3	144.4	169.4	229.5
Wall Thickness (mm)	Min	5.0	6.5	7.5	10.0
	Max	5.7	7.3	8.5	11.2

DIMENSIONS OF 'RS' - RIBBED SCREEN PIPES: 0.2MM to 1.5MM SLOTTED

Conforming to IS 12818

Type	RS (0.2MM) SLOTTED			
Size in mm		40	50	80
Size in inch		1½"	2"	3"
Standard Pipe Length in Meters		1.82,3	1.82,3	3
Mean OD of Pipe (mm)	Min	52.0	64.0	92.0
	Max	52.2	64.2	92.3
Wall Thickness (mm)	Min	3.5	4.0	4.0
	Max	4.0	4.6	4.6



DIMENSIONS OF 'RS' - RIBBED SCREEN PIPES: 0.2MM to 1.5MM SLOTTED

Conforming to IS 12818

Type	RS (0.5 MM) SLOTTED						
Size in mm		40	50	80	100	125	150
Size in inch		1½"	2"	3"	4"	5"	6"
Standard Pipe Length in Meters		1.82,3	1.82,3	3	3	3	3
Mean OD of Pipe (mm)	Min	52.0	64.0	92.0	117.0	140.0	169.0
	Max	52.2	64.2	92.3	117.3	144.4	169.4
Wall Thickness (mm)	Min	3.5	4.0	4.0	5.0	6.5	7.5
	Max	4.0	4.6	4.6	5.7	7.3	8.5

Type	RS (1.5MM) SLOTTED	
Size in mm		200
Size in inch		8"
Standard Pipe Length in Meters		3
Mean OD of Pipe (mm)	Min	229.0
	Max	229.5
Wall Thickness (mm)	Min	10.0
	Max	11.2



**RIBBED SCREEN
CASING PIPE**

DIMENSIONS OF 'SDR' BLUE - PLAIN & SLOTTED CASING PIPES

Type		SDR-52 (PLAIN) - WELL DEPTH UPTO 12 METERS				
Size in mm		110	140	160	180	200
Size in inch		4"	5"	6"	7"	8"
Standard Pipe Length in Meters		5,6	3,6	6	6	6
Mean OD of Pipe (mm)	Min	110.0	140.0	160.0	180.0	200.0
	Max	110.4	140.5	160.5	180.6	200.6
Wall Thickness (mm)	Min	2.1	2.7	3.1	3.5	3.8
	Max	2.4	3.2	3.5	3.9	4.3

Type		SDR-35 (PLAIN) - WELL DEPTH BETWEEN 18-24 METERS						
Size in mm		110	125	140	160	180	200	225
Size in inch		4"	4½"	5"	6"	7"	8"	9"
Standard Pipe Length in Meters		6	6	3,6	3,6	3,6	6	6
Mean OD of Pipe (mm)	Min	110.0	125.0	140.0	160.0	180.0	200.0	225.0
	Max	110.4	125.4	140.5	160.5	180.6	200.6	225.6
Wall Thickness (mm)	Min	3.1	3.6	4.0	4.5	5.1	5.7	6.4
	Max	3.5	4.0	4.5	4.9	5.6	6.3	7.2

Type		SDR-35 (SLOTTED) - WELL DEPTH BETWEEN 18-24 METERS						
Size in mm		110	125	140	160	180	200	225
Size in inch		4"	4½"	5"	6"	7"	8"	9"
Standard Pipe Length in Meters		6	6	6	6	6	6	6
Mean OD of Pipe (mm)	Min	110.0	125.0	140.0	160.0	180.0	200.0	225.0
	Max	110.4	125.4	140.5	160.5	180.6	200.6	225.6
Wall Thickness (mm)	Min	3.1	3.6	4.0	4.5	5.1	5.7	6.4
	Max	3.5	4.0	4.5	4.9	5.6	6.3	7.2



DIMENSIONS OF ASTM DARK BLUE CASING PIPES: SCH 40, SCH 80

As per ASTM D1785

Type		SCH 40				
Size in mm		40	50	80	100	125
Size in inch		1½"	2"	3"	4"	5"
Standard Pipe Length in Meters		6	6	6	6	5
Mean OD of Pipe (mm)	Min	48.11	60.17	88.70	114.07	141.05
	Max	48.41	60.47	89.10	114.53	141.55
Wall Thickness (mm)	Min	3.68	3.91	5.49	6.02	6.55
	Max	4.19	4.42	6.15	6.73	7.34

Type		SCH 80	
Size in mm		125	
Size in inch		5"	
Standard Pipe Length in Meters		5	
Mean OD of Pipe (mm)	Min	141.05	
	Max	141.55	
Wall Thickness (mm)	Min	9.52	
	Max	10.66	

Type		V-THREAD CM	
Size in mm		100	
Size in inch		4"	
Standard Pipe Length in Meters		6	
Mean OD of Pipe (mm)	Min	113.0	
	Max	113.3	
Wall Thickness (mm)	Min	5.0	
	Max	5.7	



ASTM DARK BLUE CASING PIPE

DIMENSIONS OF DEEP BOREWELL CASING PIPES - 'RDS' & 'CD'

Conforming to IS 12818

Type		CD - WELL DEPTH BETWEEN 250-450 METERS						
Size in mm		100	115	125	150	175	200	250
Size in inch		4"	4½"	5"	6"	7"	8"	10"
Standard Pipe Length in Meters		3	3	3	3	3	3	3
Mean OD of Pipe (mm)	Min	113.0	125.0	140.0	165.0	200.0	225.0	280.0
	Max	113.3	125.3	140.4	165.4	200.5	225.5	280.5
Wall Thickness (mm)	Min	7.0	7.5	8.0	9.5	11.8	13.0	16.0
	Max	7.9	8.5	9.0	10.7	13.6	14.8	17.6

Type		RDS - WELL DEPTH BETWEEN 250-450 METERS					
Size in mm		100	115	125	150	175	200
Size in inch		4"	4½"	5"	6"	7"	8"
Standard Pipe Length in Meters		3	3	3	3	3	3
Mean OD of Pipe (mm)	Min	117.0	129.0	144.0	169.0	204.0	229.0
	Max	117.3	129.3	144.4	169.4	204.5	229.5
Wall Thickness (mm)	Min	7.0	7.5	8.0	9.5	11.8	13.0
	Max	7.9	8.5	9.0	10.7	13.6	14.8



FOLLOWING FACTORS MAY RESULT IN PIPE DEFORMATION OR BURSTING. BORE MECHANICS SHOULD TAKE CARE OF THIS WHILE INSTALLATION:

- a) Hydraulic pressure difference created by inside water and outside drilling mud.
- b) Hydraulic pressure and heat created during bentonite/cement grouting.
- c) Stress formation because of types of rocks, clay and shale present outside the pipe.
- d) Development of sudden internal vacuum inside the pipe.
- e) Excessive vertical pressure applied on the pipes during installation.

CERTIFICATIONS AND APPROVALS

- Casing and Ribbed Screen pipes are manufactured conforming to IS 12818 (Bureau of Indian Standards) and as per ASTM D 1785
- Approved and tested by CIPET (Central Institute of Plastics Engineering & Technology)

CASING PIPE INSTALLATION GUIDELINES

- Drill the bore of the required size and depth in the ground. Please ensure that it is vertical and without any bends.
- For better results, ensure that the reamed borehole is at least 15 to 25 cm more than the outside diameter of the casing pipe.
- In soil conditions with loose boulders, casing pipes are recommended for the entire depth.
- Use slotted pipes manufactured by FinOlex. We do not recommend slotting to be done by any other company.
- Don't use vertical slotted pipes in a borewell as they may not have enough strength and are not recommended by IS 12818 standard.
- Check that pipe threads are not damaged. Clean it with normal water to avoid forceful jointing. Don't use any chemicals for cleaning pipe threads.
- Ensure that rubber gaskets are placed properly in the groove on the male threads of the pipe.
- Use plain water or soapy water to clean threads.
- Do not apply grease, oil or any other lubricant on the threads.
- Use an end cap at the end of the bottom pipe during installation.
- Join one pipe after the other. Tighten pipes using a strap wrench so that 50% of rubber-sealing ring on male thread end gets into the seat of coupler female threads.
- Do not over tighten as it may cause crushing of rubber seals leading to leakage and cracks in the pipe.
- Do not use a pipe/chain wrench to tighten the joints.
- Don't hammer the pipes during assembly. Do not apply excessive vertical pressure on the pipes during installation.
- To avoid excess abrasion, do not dump gravel at a high speeds. Do not use clay as packing material outside the pipe where the borewell shows presence of water at the time of digging.
- Cleaning of borewell with clean water is recommended immediately after the pipe installation.
- Flushing of borewell within 24 hrs. after drilling and backfilling of casing pipes must be done to avoid developing strong cohesive forces around the pipes. Here the pressure required for borewell cleaning is quite high which may lead the pipe to burst.
- Take extra care at the time of borewell flushing. Use a rubber coated metal pipe joined at the end of the compressor air hose. Keep compressor air pressure below 12 bars. Generation of excess pressure inside the borewell may lead to pipe breakage.



FEATURES AND BENEFITS



Excellent stiffness helps pipes withstand external hydraulic pressure



Pipes are a non-conductors of electricity



Horizontal slots enable laminar flow into the bore well, reducing losses at the entrance of the borewell



Maintenance free and more economical as compared to conventional pipes



Increased permeability due to continuous ribs keeps gravel pack away from slot opening



Easy and quick installation



Nontoxic and do not impart taste and odour. Safe for drinking water



Lightweight and easy to handle



Increased product life because of excellent mechanical properties



Stringent quality control



Anti-corrosive and consequently unaffected by the presence of aggressive elements in the soil



Manufactured using a special PVC-U compound

APPLICATIONS



Domestic



Borewell casing



Irrigation



Industrial mining

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