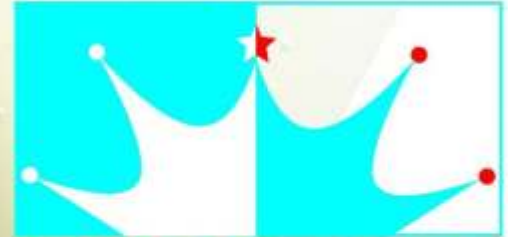


**Piyush Chheda Group**



**PRINCE GLOBAL**  
**TUBE WELL SYSTEMS**



**TUBE WELL SYSTEMS**  
**(Casing & Column Pipes)**

WIDEST RANGE OF ANY PIPING SYSTEM AVAILABLE UNDER ONE ROOF

*System is Quality!*





*Prakash Chheda Group*



**PRINCE GLOBAL**  
TUBE WELL SYSTEMS

As per IS 12818 - 2010

**PRINCE GLOBAL** Tube Well System is non Toxic, Easy to Install and is made for life time trouble free services.

**PRINCE GLOBAL** Tube Well systems consists of Ribbed Screen pipes, Plain Screen Pipes, Casing pipes and Rising Main (Column) Pipes, available in most usable range from 35mm to 250mm.

**Application :** **PRINCE GLOBAL** Bore Well and Tube Well systems are suitable for various sizes of tube wells to extract clean & clear water.

**Advantage :** **PRINCE GLOBAL** Bore Well and Tube Well System has several advantages over conventional Systems : Light weight, Easy to install, Excellent Rigidity , Non-Toxic, Good Insulator , Longer life. (As per IS 12818 - 2010 Specifications.)

**Cost Effective :** **PRINCE GLOBAL** casing and screen pipes are more economical than other materials systems because its having higher cost benefit ratio. Environment Friendly In life Cycle analysis and independent studies, PVC's environmental impact has been found to be favorable when compared with other companies manufactured by different materials.

### **Installation Guide:**

- 1) Ensure completion of bore well installation & sufficient Prince Global ribbed screen & plain casing pipes are available at site, selected based on depth of Bore Well as per IS 12818 CS up to 80 mtrs., CM upto 250 mtrs., CD up to 450 mtrs. to avoid collapse in a Bore.
- 2) Remove thread protective cap & confirm that sealing ring is provided on groove at the end of threaded portion. Never do assembly of 1 pipe with other without sealing ring since it is important for complete locking of threads.
- 3) Ensure that bottom cap with sand traps is put in place.
- 4) Fit "C" Clamp below the bell end of the pipe .Lower assembly down in the bore with the help of chain pulley block.
- 5) After lowering the pipe up to the clamp level, tight the second pipe gently with the lowered pipe.
- 6) Use chain strap wrench for proper jointing without over tight. Fix next clamp below bell end of the second pipe and connect the chain pulley with clamp. Remove the clamp of lower pipe and start lowering further, assemble pipe one after the other.
- 7) Repeat the jointing method till the required depth of bore well is reached. Fill the gravel between pipes and bore hole.



**PRINCE GLOBAL Ribbed Screen Pipes .**

Pipes having V shape ribs on outer surface with fine slots to prevent small particles in bore well. These pipes have special specification & have been produced from special PVC compounding formulation.

**Dimension of Medium Well Ribbed Screen (RMS) Pipes as per IS: 12818 - 2010**

Nominal Diameter (DN)		Mean Outer Diameter of Pipe		Outer Diameter of Pipe at Any Point		Mean Outer Diameter Over Connection	Wall Thickness (Under Ribs) mm	
Inch	mm	Min	Max	Min	Max	Max	Min	Max
1 <sup>1/4</sup>	35	46.0	46.2	45.9	46.3	50.0	3.5	4.0
1 <sup>1/2</sup>	40	52.0	52.2	51.9	52.3	56.0	3.5	4.0
2	50	64.0	64.2	63.9	64.3	69.0	4.0	4.6
3	80	92.0	92.3	91.8	92.4	98.0	4.0	4.6
4	100	117.0	117.3	116.8	117.4	124.0	5.0	5.7
4 <sup>1/2</sup>	115	129.0	129.3	128.8	129.4	136.0	5.0	5.7
5	125	144.0	144.4	143.7	144.5	154.0	6.5	7.3
6	150	169.0	169.4	168.6	169.6	182.0	7.5	8.5
7	175	204.0	204.5	203.6	204.6	219.0	8.8	9.8
8	200	229.0	229.5	228.5	229.8	247.0	10.0	11.2
10	250	284.0	284.5	283.4	284.8	302.0	12.5	14.0

**Dimension of Deep Well Ribbed Screen (RDS) Pipes as per IS: 12818 - 2010**

Nominal Diameter (DN)		Mean Outer Diameter of Pipe		Outer Diameter of Pipe at Any Point		Mean Outer Diameter Over Connection	Wall Thickness (Under Ribs) mm	
Inch	mm	Min	Max	Min	Max	Max	Min	Max
4	100	117.0	117.3	116.8	117.4	129.0	7.0	7.9
4 <sup>1/2</sup>	115	129.0	129.3	128.9	129.4	141.0	7.5	8.5
5	125	144.0	144.4	143.7	144.5	156.0	8.0	9.0
6	150	169.0	169.4	168.6	169.6	184.0	9.5	10.7
7	175	204.0	204.5	203.6	204.6	221.0	11.8	13.6
8	200	229.0	229.5	228.5	229.8	251.0	13.0	14.8
10	250	284.0	284.5	283.4	284.8	309.0	16.0	17.6

**Dimension of Plain Medium Well Screen (PMS) Pipes (All Dimensions in mm)**

Nominal Outside Diameter (DN)		Mean Outer Diameter of Pipe		Outer Diameter of Pipe at Any Point		Mean Outer Diameter Over Connection	Wall Thickness	
Inch	mm	Min	Max	Min	Max	Max	Min	Max
8	200	225.0	225.5	224.5	225.8	243.0	10.0	11.2
10	250	280.0	280.5	279.4	280.8	298.0	12.5	14.0

**Dimension of Plain Deep Well Screen (PDS) Pipes (All Dimensions in mm)**

Nominal Outside Diameter (DN)		Mean Outer Diameter		Outer Diameter of Pipe at Any Point		Mean Outer Diameter Over Connection	Wall Thickness	
Inch	mm	Min	Max	Min	Max	Max	Min	Max
8	200	225.0	225.5	224.5	225.8	247.0	13.0	14.8
10	250	280.0	280.5	279.4	280.8	304.0	16.0	17.6

**Dimension of Medium Well (CM), Shallow Well (CS) & Deep Well (CD) Casing Pipes as per IS: 12818 - 2010**

Nominal Outside Diameter (DN)		Mean Outer Diameter of Pipe		Mean Outer Diameter Over Connection (Max)			Wall Thickness (mm) CM		Wall Thickness (mm) CS		Wall Thickness (mm) CD	
Inch	mm	Min	Max	CM	CS	CD	Min	Max	Min	Max	Min	Max
1 <sup>1/4</sup>	35	42.0	42.2	46.0	-	-	3.5	4.0	-	-	-	-
1 <sup>1/2</sup>	40	48.0	48.2	52.0	-	-	3.5	4.0	-	-	-	-
2	50	60.0	60.2	65.0	-	-	4.0	4.6	-	-	-	-
3	80	88.0	88.3	94.0	-	-	4.0	4.6	-	-	-	-
4	100	113.0	113.3	120.0	-	125.0	5.0	5.7	-	-	7.0	7.9
4 <sup>1/2</sup>	115	125.0	125.3	132.0	-	137.0	5.0	5.7	-	-	7.5	8.5
5	125	140.0	140.4	150.0	-	152.0	6.5	7.3	-	-	8.0	9.0
6	150	165.0	165.4	178.0	174.0	180.0	7.5	8.5	5.7	6.5	9.5	10.7
7	175	200.0	200.5	215.0	211.0	217.0	8.8	9.8	7.0	7.8	11.8	13.6
8	200	225.0	225.5	243.0	238.0	247.0	10.0	11.2	7.6	8.8	13.0	14.8
10	250	280.0	280.5	298.0	292.0	304.0	12.5	14.0	9.6	11.0	16.0	17.6

**\*\* Note :** Pipes made from UPVC Raw Materials in Blue colour.

- 1) Pipe comply with IS 12818-2010
- 2) Threads DN 40 to 80 mm as per IS : 554
- 3) DN 100 to 400 mm trapezoidal threads as per IS : 12818-2010
- 4) Sealing rings as per IS : 12818-2010 (Material -EPDM)
- 5) Standard Length - 3 mtr.







**PRINCE Global protector well casing & screens water extraction systems (SDR series casing pipes)**

**PRINCE** tube well systems having SDR series casing pipes are specially designed for very shallow well depths from 15 mtr. to 50 mtr. These pipes are available in a standard length of 6 meters and are blue in colour, having solvent cement joint.

1) SDR 52 - FOR WELL DEPTH UPTO 40 FEET ( 12 METERS )								
All Dimensions in mm								
SIZE CLASS	MEAN OUTSIDE DIA.		O.D. AT ANY POINT		WALL THICKNESS		LENGTH TOLERANCE +J- 5	
	Min.	Max.	Min.	Max.	Min.	Max.	Plain (m)	Socketed (m)
110 SDR - 52	110.0	110.4	108.6	111.4	2.10	2.40	-	6.005
140 SDR - 52	140.0	140.5	138.3	141.7	2.70	3.20	-	6.005
160 SDR - 52	160.0	160.5	158.0	162.0	3.10	3.50	-	6.005
180 SDR - 52	180.0	180.6	177.8	182.2	3.50	3.90	-	6.005
200 SDR - 52	200.0	200.6	197.6	202.4	3.80	4.20	-	6.005

2) SDR 44 - FOR WELL DEPTH BETWEEN 40-60 FEET ( 12-18 METERS )								
All Dimensions in mm								
SIZE CLASS	MEAN OUTSIDE DIA.		O.D. AT ANY POINT		WALL THICKNESS		LENGTH TOLERANCE + 5	
	Min.	Max.	Min.	Max.	Min.	Max.	Plain (m)	Socketed (m)
110 SDR - 44	110.0	110.4	108.6	111.4	2.50	2.80	-	6.005
140 SDR - 44	140.0	140.5	138.3	141.7	3.20	3.60	-	6.005
160 SDR - 44	160.0	160.5	158.0	162.0	3.70	4.10	-	6.005
180 SDR - 44	180.0	180.6	177.8	182.2	4.20	4.65	-	6.005
200 SDR - 44	200.0	200.6	197.6	202.4	4.60	5.05	-	6.005
225 SDR - 44	225.0	225.7	222.3	227.7	5.20	5.70	-	6.005

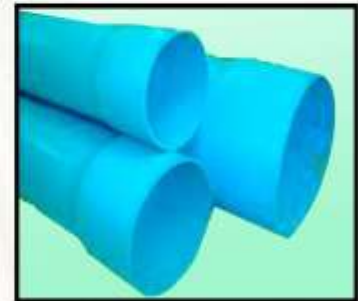
3) SDR 35 - FOR WELL DEPTH BETWEEN 60-90 FEET ( 18-24 METERS )								
All Dimensions in mm								
SIZE CLASS	MEAN OUTSIDE DIA.		O.D. AT ANY POINT		WALL THICKNESS		LENGTH TOLERANCE + 5	
	Min.	Max.	Min.	Max.	Min.	Max.	Plain (m)	Socketed (m)
110 SDR - 35	110.0	110.4	108.6	111.4	3.1	3.5	-	6.005
140 SDR - 35	140.0	140.5	138.3	141.7	4.0	4.5	-	6.005
160 SDR - 35	160.0	160.5	158.0	162.0	4.5	4.9	-	6.005
180 SDR - 35	180.0	180.6	177.8	182.2	5.1	5.6	-	6.005
200 SDR - 35	200.0	200.6	197.6	202.4	5.7	6.3	-	6.005

4) SDR 33 - FOR WELL DEPTH BETWEEN 90-100 FEET ( 24-30 METERS )								
All Dimensions in mm								
SIZE CLASS	MEAN OUTSIDE DIA.		O.D. AT ANY POINT		WALL THICKNESS		LENGTH TOLERANCE +J- 5	
	Min.	Max.	Min.	Max.	Min.	Max.	Plain (m)	Socketed (m)
110 SDR - 33	110.0	110.4	108.6	111.4	3.30	3.70	-	6.005
125 SDR - 33	125.0	125.4	123.5	126.5	3.80	4.20	-	6.005
140 SDR - 33	140.0	140.5	138.3	141.7	4.20	4.60	-	6.005
160 SDR - 33	160.0	160.5	158.0	162.0	4.80	5.40	-	6.005
180 SDR - 33	180.0	180.6	177.8	182.2	5.40	6.00	-	6.005
225 SDR - 33	225.0	225.7	222.3	227.7	6.80	7.50	-	6.005

5) SDR 29 - FOR WELL DEPTH BETWEEN 100-165 FEET ( 30-50 METERS )								
SIZE CLASS	MEAN OUTSIDE DIA.		O.D. AT ANY POINT		WALL THICKNESS		LENGTH TOLERANCE +J- 5	
	Min.	Max.	Min.	Max.	Min.	Max.	Plain (m)	Socketed (m)
110 SDR - 29	110.0	110.4	108.6	111.4	3.70	4.30	-	6.005
140 SDR - 29	140.0	140.5	138.3	141.7	4.80	5.50	-	6.005
160 SDR - 29	160.0	160.5	158.0	162.0	5.40	6.20	-	6.005
180 SDR - 29	180.0	180.6	177.8	182.2	6.10	6.75	-	6.005
200 SDR - 29	200.0	200.6	197.6	202.4	6.80	7.90	-	6.005



**PRINCE GLOBAL Column \ Main Pipes**

PRINCE GLOBAL Column \ Main Pipes								
Dimensions of Submersible Column \ Main Pipes.								
Size		Outer Diameter in		Wall Thickness				
mm	Inch	Min	Max	Light Duty	Medium Duty	Standard Duty	Heavy Duty	Super Heavy Duty
25	1	33.0	33.3	-	2.15	4.45	-	-
32	1 1/4	42.0	42.3	2.55	3.00	4.35	5.50	-
40	1 1/2	48.0	48.3	2.70	3.00	4.35	6.20	-
50	2	60.0	60.3	2.80	3.00	4.35	5.70	6.85
65	2 1/2	75.0	75.3	-	3.10	4.50	6.75	-
80	3	88.0	88.3	-	3.55	5.30	7.65	10.25
100	4	113.0	113.4	-	4.05	6.05	9.80	-



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