## PP-R HOT & COLD WATER SYSTEM (FUSION WELDING TYPE)



"SUPREME" Indo Green PP-R is designed for Hot & Cold Water application. These are made of Polypropylene Random Copolymer Type-3 (PP-R) supplied by reputed European companies. It has high molecular weight & excellent Creep resistance which is fundamental characteristic for the transportation of hot fluids under pressure. These system is manufactured according to EN ISO 15874 standards. These system is available in the dimensions 16mm to 160mm in PN-16 & PN-20 pressure with UV Stabilized.

## **ADVANTAGES & BENEFITS:**

- Light weight, Easy & quick to Assemble.
- Resistance to Corrosion & Chemicals attacks.
- Mirror smooth finish-hence High Flow rates.
- High Impact strength & low on sound.
- Operation durability of minimum 50 years.
- Resistant to frost, abrasion & stray current.
- Overall cost effective than GI System.



## **JOINING PROCEDURE**











Pipe Dimensions as per EN ISO 15874 specifications

	PN 8		PN 10		PN 12.5		PN 16		PN 20	
Size (D)	Wall Thickness (t)	Internal Diameter (d)	Wall Thickness (t)	Internal Diameter ( d )	Wall Thickness (t)	Internal Diameter ( d)	Wall Thickness (t)	Internal Diameter (d)	Wall Thickness (t)	Internal Diameter (d)
16							2.3	11.4	2.7	10.6
20			1.9	16.2	2.3	15.4	2.8	14.4	3.4	13.2
25			2.8	19.4	2.8	19.4	3.5	18.0	4.2	16.6
32			3.0	26.0	3.6	24.8	4.5	23.0	5.4	21.2
40			3.7	32.6	4.5	31.0	5.6	28.8	6.7	26.6
50	3.7	42.6	4.6	40.8	5.6	38.8	6.9	36.2	8.4	33.2
63	4.7	53.6	5.8	51.4			8.7	45.6	10.5	42.0
75	5.5	64.0	6.9	61.2			10.4	54.2	12.5	50.0
90	6.70	76.6	8.2	73.6			12.5	65.0	15.0	60.0
110	8.20	93.6	10.0	90.0			15.2	79.6	18.4	73.2
160	11.90	136.2	14.6	130.8			21.9	116.2		

Note: UV-stabilized pipes are offered in all the sizes except 20, 25, 32 mm in PN10 pressure class.

## Operating parameters of PP-R piping for water supply systems

	71.55			PRES	SURE LINE				
TEMPER- ATURE	TIME IN OPERATION	MAXIMUM ALLOWABLE OVER PRESSURE							
(°C)	(YEARS)	PN 8	PN 10	PN 12.5	PN 16	PN 20			
	1	14.1	17.6	22.0	27.8	35.0			
	5	13.3	16.6	20.9	26.4	33.2			
10	10	12.9	16.1	20.2	25.5	32.1			
	25	12.5	15.6	19.6	24.7	31.1			
	50	12.2	15.2	19.0	24.0	30.3			
	1	12.0	15.0	18.8	23.8	30.0			
	5	11.3	14.1	17.7	22.3	28.1			
20	10	11.0	13.7	17.2	21.7	27.3			
	25	10.6	13.3	16.7	21.1	26.5			
	50	10.3	12.9	16.2	20.4	25.7			
	1	10.2	12.8	16.0	20.2	25.5			
	5	9.6	12.0	15.0	19.0	23.9			
30	10	9.3	11.6	14.5	18.3	23.1			
	25	9.0	11.2	14.0	17.7	22.3			
	50	8.7	10.9	13.7	17.3	21.8			
	1	8.6	10.8	13.5	17.1	21.5			
	5	8.1	10.1	12.7	16.0	20.2			
40	10	7.8	9.8	12.3	15.6	19.6			
	25	7.5	9.4	11.8	15.0	18.8			
	50	7.4	9.2	11.5	14.5	18.3			
	1	7.4	9.2	11.5	14.5	18.3			
	5	6.8	8.5	10.7	13.5	17.0			
50	10	6.6	8.2	10.3	13.1	16.5			
	25	6.4	8.0	10.0	12.6	15.9			
	50	6.2	7.7	9.7	12.2	15.4			
	1	6.2	7.7	9.7	12.2	15.4			
	5	5.8	7.2	9.0	11.4	14.3			
60	10	5.5	6.9	8.7	11.0	13.8			
	25	5.4	6.7	8.4	10.5	13.3			
	50	5.1	6.4	8.0	10.1	12.7			
	1	5.2	6.5	8.2	10.3	13.0			
	5	4.8	6.0	7.5	9.5	11.9			
70	10	4.7	5.9	7.4	9.3	11.7			
	25	4.1	5.1	6.4	8.0	10.1			
	50	3.4	4.3	5.3	6.7	8.5			
	1	4.4	5.5	6.9	8.6	10.9			
	5	3.8	4.8	6.0	7.6	9.6			
80	10	3.2	4.0	5.0	6.3	8.0			
	25	2.6	3.2	4.0	5.1	6.4			
95	1	3.1	3.9	4.9	6.1	7.7			
95	5	2.0	2.5	3.2	4.0	5.0			
	COL	HOT WATER							