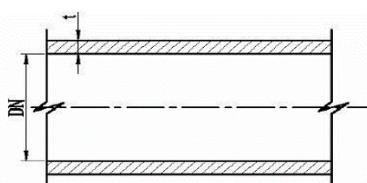


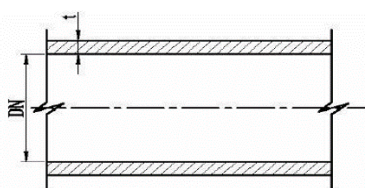
# Fiberglass Reinforced Plastic Pipe Specification

## FRP Pipe Specification



FRP Pipe Dimensions DN [mm]	PN 0.6Mpa		PN 1.0Mpa		PN 1.6Mpa		PN 2.5Mpa		Pipe Length [m]
	t [mm]	w [kg/m]	t [mm]	w [kg/m]	t [mm]	w [kg/m]	t [mm]	w [kg/m]	
32	4.5	1.0	4.5	1.0	4.5	1.0	4.5	1.0	1.2
40	4.5	1.2	4.5	1.2	4.5	1.2	4.5	1.2	1.5
50	4.5	1.4	4.5	1.4	4.5	1.4	4.5	1.4	3.8
65	4.5	1.8	4.5	1.8	4.5	1.8	4.5	1.8	3.8
80	4.5	2.2	4.5	2.2	4.5	2.2	5.0	2.4	5.7
100	4.5	2.8	4.5	2.8	4.5	2.8	5.0	3.2	5.7
125	4.5	3.5	4.5	3.5	5.0	3.9	6.0	4.8	5.7
150	4.5	4.2	5.0	4.7	5.5	5.2	6.5	6.2	8.5, 5.7
200	5.0	6.3	5.5	7.1	6.0	7.7	8.0	10.4	5.7
250	5.5	8.7	6.0	9.3	7.0	11.2	9.5	15.4	11.7
300	6.0	11.4	6.0	11.4	8.0	15.4	11.0	21.4	11.7
350	6.0	13.2	6.5	14.3	9.0	20.2	12.5	28.3	11.7
400	6.5	14.4	7.0	17.6	10.0	25.6	14.0	36.2	11.7
450	6.5	18.4	7.5	21.2	11.0	31.7	15.5	45.1	11.7
500	7.0	23.7	8.5	26.8	12.0	38.4	17.0	54.9	11.7
550	7.0	24.5	9.0	29.1	13.0	44.8	19.0	66.2	4.5
600	7.5	28.2	9.5	35.8	14.0	53.7	20.0	77.5	11.7
650	8.0	33.1	10.0	41.5	15.0	62.6	21.5	90.5	11.7
700	8.5	37.3	11.0	48.4	15.5	69.3	23.0	104.0	11.7
750	9.0	42.9	11.5	55.0	15.5	74.6	24.5	119.0	11.7
800	9.0	45.1	12.0	60.3	16.0	81.6	26.0	134.3	11.7
900	10.0	45.8	13.0	73.5	17.5	100.4	29.0	168.4	11.7
1000	11.0	68.6	14.0	87.9	19.5	124.3	32.0	206.5	11.7
1100	11.5	78.3	15.5	105.9	21.5	150.0			11.7
1200	13.0	97.6	16.0	120.4	23.0	175.9			11.7
1300	14.0	114.4	17.5	143.4	24.5	201.9			11.7
1400	15.0	131.4	18.5	162.4	26.5	236.3			11.7
1500	15.5	145.4	20.0	188.1	28.0	267.5			11.7
1600	16.5	165.1	21.0	210.7	30.0	305.7			11.7
1800	18.5	208.2	23.0	259.5	33.5	384.0			11.7
2000	20.0	250.0	26.0	326.0	37.0	471.2			11.7

# Fiberglass Reinforced Plastic Pipe Specification



FRP Pipe Dimensions DN [mm]	PN 0.6Mpa		PN 1.0Mpa		PN 1.6Mpa		Pipe Length [m]
	t [mm]	w [kg/m]	t [mm]	w [kg/m]	t [mm]	w [kg/m]	
2000	20.0	250.0	26.0	326.0	37.0	471.2	11.7
2200	22.0	302.5	28.0	386.1			11.65
2400	24.0	360.0	30.5	459.5			12.0
2500	25.0	391.0	31.0	486.6			11.6
2600	26.0	429.0	32.5	536.3			11.6
2800	28.5	498.9	35.0	624.1			11.6
3000	29.0	543.6	37.0	695.4			11.5
3200	32.5	673.3					11.5
3400	34.0	748.3					11.5
3600	36.0	838.9					11.5
3800	38.0	934.7					11.5
4000	40.0	1035.7					11.5

## Abbreviation & Remarks:

DN - Nominated diameter

PN - Nominated pressure

t - Pipe wall thickness

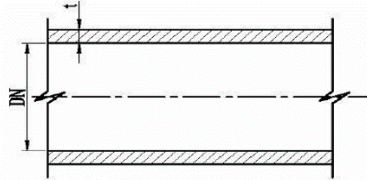
w - Net Weight

1. The pipe wall thickness 't' are calculated at 2mm.
2. Recalculation of wall thickness is required if the pipe has different requirements such as negative pressure, stiffness, etc.
3. Recalculation of the wall thickness is required if the pipeline conveys high temperatures and corrosive media.
4. Weights in the table are based on flat end pipes.

\* All figures quoted in the table are provided for reference only. Therefore, the provided data cannot be construed as an express or implied warranty. All details must be checked and if necessary agreed to in each individual case. Fibrace cannot accept any liability.

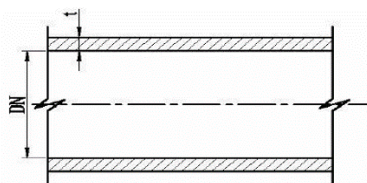
# Fiberglass Reinforced Plastic Pipe Specification

## Underground FRP Pipe Specification (Without Reinforced Ribs)



FRP Pipe Dimensions DN [mm]	Gravity flow				PN 0.6Mpa					
	SN5000		SN10000		SN2500		SN5000		SN10000	
	t [mm]	w [kg/m]	t [mm]	w [kg/m]	t [mm]	w [kg/m]	t [mm]	w [kg/m]	t [mm]	w [kg/m]
300	5.0	10.1	6.0	12.1	4.5	9.1	5.0	10.1	6.0	12.1
350	6.0	14.1	7.5	17.7	5.0	11.7	6.0	14.1	7.5	17.7
400	6.5	17.5	8.0	21.6	5.5	14.8	6.5	17.5	8.0	21.6
450	7.0	21.2	8.5	25.8	5.5	16.6	7.0	21.2	8.5	25.8
500	7.5	25.2	9.5	32.0	6.0	20.1	7.5	25.2	9.5	32.0
600	9.5	38.3	11.5	46.5	7.0	28.1	9.5	38.3	11.5	46.5
700	10.5	49.4	13.0	61.3	8.5	39.8	10.5	49.4	13.0	61.3
800	12.0	64.5	14.5	78.1	9.5	50.9	12.0	64.5	14.5	78.1
900	13.5	81.6	16.5	100.1	10.5	63.3	13.5	81.6	16.5	100.1
10000	14.5	97.3	18.0	121.2	11.5	77.0	14.5	97.3	18.0	121.2
1200	17.0	136.9	21.0	169.6	13.5	108.4	17.0	136.9	21.0	169.6
1400	19.5	183.1	24.5	230.9	16.0	149.9	19.5	183.1	24.5	230.9
1500	21.0	211.3	26.0	262.5	17.0	170.6	21.0	211.3	26.0	262.5
1600	22.5	241.5	28.0	301.6	18.0	192.7	22.5	241.5	28.0	301.6
1800	25.0	301.9	31.0	375.5	20.0	240.8	25.0	301.9	31.0	375.5
2000	27.0	362.1	34.5	464.4	22.0	294.3	27.0	362.1	34.5	464.4
2200	30.0	442.6	38.0	562.7	24.0	353.1	30.0	442.6	38.0	562.7
2400	33.0	531.2	41.0	662.2	26.0	417.3	33.0	531.2	41.0	662.2
2500	34.0	570.0	43.0	723.5	27.5	459.9	34.0	570.0	43.0	723.5
2800	38.0	713.5	48.0	904.5	30.5	571.2	38.0	713.5	48.0	904.5
3000	41.0	824.9	51.0	1029.5	32.5	652.1	41.0	824.9	51.0	1029.5

# Fiberglass Reinforced Plastic Pipe Specification



FRP Pipe Dimensions DN [mm]	PN 1.0Mpa				PN 1.6Mpa	
	SN5000		SN10000		SN10000	
	t [mm]	w [kg/m]	t [mm]	w [kg/m]	t [mm]	w [kg/m]
300	5.0	10.1	6.5	13.2	7.0	14.2
350	6.0	14.1	7.5	17.7	8.0	18.9
400	6.5	17.5	8.0	21.6	8.5	23.0
450	7.0	21.2	9.0	27.3	9.5	28.9
500	7.5	25.2	9.5	32.0	10.0	33.7
600	9.5	38.3	11.5	46.5	11.5	46.5
700	10.5	49.4	13.0	61.3	13.0	61.3
800	12.0	64.5	14.5	78.1	14.5	78.1
900	13.5	81.6	16.5	100.1	16.5	100.1
10000	14.5	97.3	18.0	121.2	18.0	121.2
1200	17.0	136.9	21.0	169.6	21.0	169.6
1400	19.5	183.1	24.5	230.9	24.5	230.9
1500	21.0	211.3	26.0	262.5	26.0	262.5
1600	22.5	241.5	28.0	301.6	28.0	301.6
1800	25.0	301.9	31.0	375.5	31.0	375.5
2000	27.0	362.1	34.5	464.4	34.5	464.4
2200	30.0	442.6				
2400	33.0	531.2				
2500	34.0	570.0				
2800	38.0	713.5				
3000	41.0	824.9				

## Abbreviation & Remarks:

DN - Nominated diameter

PN - Nominated pressure

t - Pipe wall thickness

w - Net Weight

1. The pipe wall thickness 't' are calculated at 2mm.
2. Underground FRP pipe is applicable to AWWA C950A, GB/T21238 or other relevant standards. If it is FRP pipes with reinforced ribs, wall thickness is not applicable.

\* All figures quoted in the table are provided for reference only. Therefore, the provided data cannot be construed as an express or implied warranty. All details must be checked and if necessary agreed to in each individual case. Fibrace cannot accept any liability.