

# GRAVITY PIPES PN-1



## ANABEEB GRP Gravity Pipe

ANABEEB GRP Gravity pipes have many industrial applications and it can be used in sewers and hydropower lines and it is manufactured by Centrifugally Cast process in accordance with EN 14364. Anabeeb GRP gravity pipes are made of glass fibre reinforced plastic (GRP) with polyester resin and chopped glass fiber. Resin creates bond between the materials. Inner surface is of pure resin and it is as smooth as glass for good flow and less maintenance. High quality resins gives excellent chemical resistance and a service life of more than sixty years. ANABEEB GRP is producing Centrifugally Cast GRP pipes since 1996. Different applications and advantages of the material is mentioned below.

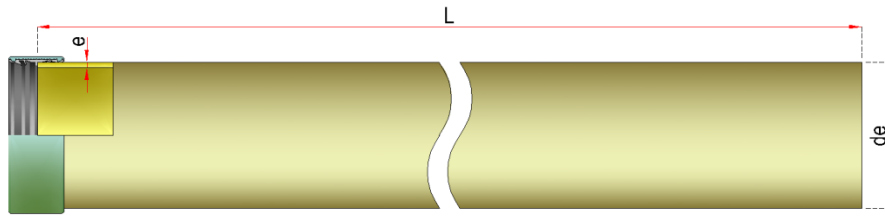
### Applications :

- ◆ Sewer Systems
- ◆ Potable Water
- ◆ Raw Water and Irrigation
- ◆ Drainage
- ◆ Industrial Applications
- ◆ Shaft and Manholes
- ◆ Hydro Power
- ◆ No Dig/ Trenchless Applications like Relining and Jacking Pipes.

### Advantages:

ANABEEB GRP pipe Systems distinguish themselves by a number of highly advantageous product qualities.

- 1. ANABEEB GRP pipes are OD controlled which gives the below benefits.**
  - ◆ Smooth outer surface.
  - ◆ Easy Installation at site.
  - ◆ Fit for various installation methods (Trench, Trenchless, relining) applications.
  - ◆ It can be cut at any place at site which avoids calibration of pipe ends for the fixing of coupler therein short pipes doesn't need to be taken back to factory for calibration and leads to saving in time & money.
- 2. Outer Layer of Ultra Violet Resistant**
  - ◆ High UV Protection outer layer with thickness of Resin & Silica sand helps to store pipes for longer period even in direct sun to avoid outer surface from any damage in case if the installation is delayed.
- 3. High Corrosive Resistant Inner Layer with pure Vinylester Resin of 1.5mm thickness.**
  - ◆ This gives the inner layer protection from any acids contents in liquid/sludge.
  - ◆ Smooth inner surface gives smooth flow to the liquid and doesn't allow any bacteria or sludge to stuck on the inner surface of the pipe which leads to reduce the maintenance cost of cleaning.
- 4. FWC Coupler with Full Faced EPDM rubber profile and lip formation (DBC).**
  - ◆ Which provides high leak tightness and helps in angular deflection
  - ◆ With the help of middle stopper it can protect the edges of the pipes not to collide with each other. GRP coupler acts as a gasket from outside and as a seal from inside between two pipes.
- 5. Highly compacted pipes due to the high speed rotation of the centrifugal casting process which results in the production of pipe with no air voids and overlapping.**
- 6. ANABEEB GRP pipes are tested 4 times of the nominal pressure which means if the nominal pressure is 6 bar our testing procedure for the acceptance criteria will be conducted on 24 bars. It allows pipe with better mechanical properties to withstand the pressure during peak times/holidays.**
- 7. ANABEEB GRP pipes standard length is 6 meters. It reduces the installation time and manpower as well.**



The Standard length of pipe is 6m. Lengths of 1 / 2 / 3 m are available on request.

DN	Diameter series	de [mm]	SN 2500		SN 5000		SN 10000		SN 15000		SN 16000		SN 20000	
			m [kg/m]	e [mm]	m [kg/m]	e [mm]	m [kg/m]	e [mm]	m [kg/m]	e [mm]	m [kg/m]	e [mm]	m [kg/m]	e [mm]
200	B2	220	7	6	8	6	9	8	10	8	10	8	11	9
250	B2	272	9	6	11	7	13	9	15	10	15	10	16	10
300	B2 B4	324	13	7	15	8	18	10	21	12	22	12	23	13
350	B2	376	16	8	20	9	25	12	28	13	28	13	30	14
400	B2	427	20	9	25	10	31	13	35	14	36	15	38	16
450	B2	478	23	9	28	10	35	13	39	15	40	15	43	16
500	B2	530	28	9	35	12	42	14	48	16	49	16	52	17
600	B1	616	36	11	46	13	56	16	63	18	65	18	69	20
700	B1	718	51	12	62	15	76	18	85	21	87	21	95	23
800	B1	820	65	14	80	17	98	21	113	24	115	24	123	26
900	B1	924	81	15	100	19	126	23	141	26	144	27	154	29
1000	B1	1026	99	17	122	20	153	26	173	29	176	29	188	31
1200	B1	1229	138	19	175	24	216	30	244	34	248	35	265	37
1400	B1	1434	190	23	234	28	290	35	328	39	334	40	358	43
1500	-	1535	222	24	273	30	339	37	383	42	390	42	417	45
1600	B1	1638	250	26	309	31	383	39	433	44	441	45	473	48
1800	B1	1842	313	28	387	35	480	43	544	49	555	50	594	54
2000	B1	2047	383	31	473	38	589	48	667	54	681	55	730	60
2200*	B1	2250	460	34	568	42	708	52	802	59	819	61	878	65
2400*	B1	2453	543	37	672	45	838	57	951	65	969	66	1040	71

Wall thicknesses and masses are guidelines (plus tolerances).

\*Available on request.