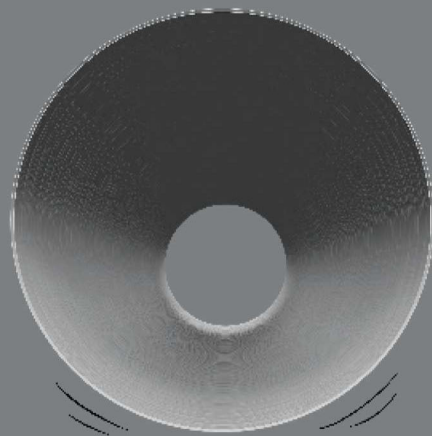
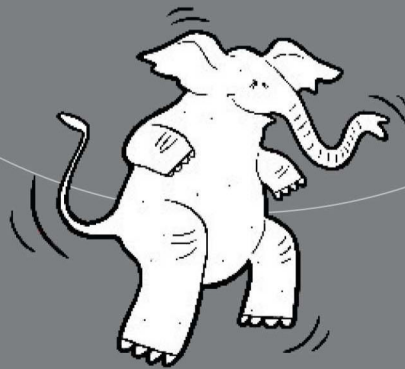




# FLOWTITE GREY

## HIGH IMPACT

### GRP PIPE



# FLOWTITE GREY HIGH IMPACT GRP PIPE

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**FLOWTITE GREY** is a new Flowtite pipe. Grey is the culmination of a development programme in materials, pipe design and processing methodology to offer better pipe performance.

Flowtite Grey is more impact resistant, which means that more native backfill or larger crushed rocks can be used for the trench backfill. That lowers costs of installation.

Flowtite Grey is more abrasion resistant, which gives the pipe a longer lifetime if the water contains abrasive material like gravel and sand.

Flowtite Grey is more water jet resistant.

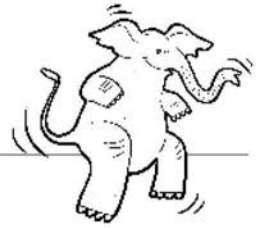
Continuously wound GRP, which was invented by Flowtite pioneers in the late 1960's, is a fantastic technology. With this new pipe, Flowtite Grey, Flowtite takes another step ahead of competition.



THE FIRST CHOICE OF ENGINEERS WORLDWIDE



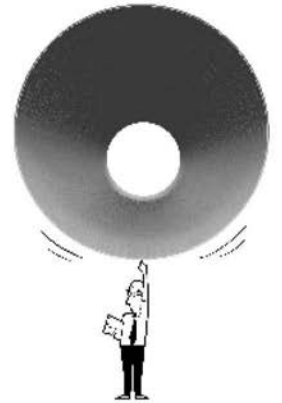
# HIGH IMPACT RESISTANCE



**FLOWTITE GREY OFFERS** up to 10 times higher impact resistance than the original Flowtite pipe. Flowtite glass reinforced plastic pipes have offered good resistance to impact over many decades, improved impact resistance has always been a goal. Flowtite Grey has a new pipe design which offers greater resistance to impact. Flowtite Grey maintains water tightness after impact to a higher degree than other GRP pipes.



▲ Flowtite Grey can be back-filled with bigger particles than other GRP pipes.



Flowtite Grey allows for backfill material with bigger particles than ordinary GRP pipes. That saves cost on backfill material, and allows for better utilization of native backfill materials.

## Backfill particle size

Larger particles permitted – up to

# 64 mm

nominal maximum particle size (sieve size).



# HIGH ABRASION RESISTANCE

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**TESTS CONDUCTED** at the Flowtite Technology Laboratory in Norway show that Flowtite Grey has far better abrasion resistance than the original Flowtite pipe. Abrasion resistance is a concern for many pipe installations when water contaminated with sand, silt and gravel must be transported in the pipe at higher flow velocity.

The suspended solids can cause erosion and abrasion wear and, when severe, can result in structural integrity issues and may even eventually require repair or rehabilitation. Flowtite Grey's new pipe design offers better resistance to abrasion for water and sewerage applications.



Some pipelines suffer damages from abrasive material like sand, gravel and ice. Flowtite Grey is more abrasion resistant than ordinary GRP.  
Photo: Hermann Emilsson





# WATER JET RESISTANCE

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**FLOWTITE GREY** is a pipe that can offer better resistance to water jet cleaning than standard Flowtite pressure pipes. Water jetting is common practice before a completed pipeline is handed over by the contractor to the pipeline owner. Water jet cleaning is also occasionally used in pressure mains

during operation. For this purpose, Flowtite Grey offers an improved resistance.

For frequent water jetting, for example in gravity sewers, Flowtite FS, shall be the preferred choice.

Before the handover of a finished pipeline, and on other occasions where water jetting is necessary, Flowtite Grey offers increased water jet resistance.



# THE GREY LAMINATE


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**FLOWTITE GREY** is a proprietary technology with patents pending. Flowtite Grey is the culmination of a development programme in materials, pipe design and processing methodology to offer better pipe performance – impact resistance is improved,

abrasion resistance is improved, ease of installation is improved, operational performance is improved and pipe longevity is increased. Flowtite Grey technology is novel and patent is pending.





A large, light-colored concrete pipe is being installed in a deep, narrow trench. The pipe is positioned diagonally from the bottom left towards the top right of the frame. The trench walls are composed of loose, light-brown soil and small rocks. In the background, a vast, hilly landscape stretches out under a clear blue sky. The hills are covered in sparse, dry vegetation. A small white bucket is visible inside the pipe at the bottom left.

Utilization of native backfill is a considerable cost saving element in remote areas. Flowtite Grey allows bigger particle size in backfill material, and utilizes a higher percentage of native backfill.

**LOCATION:** Spain

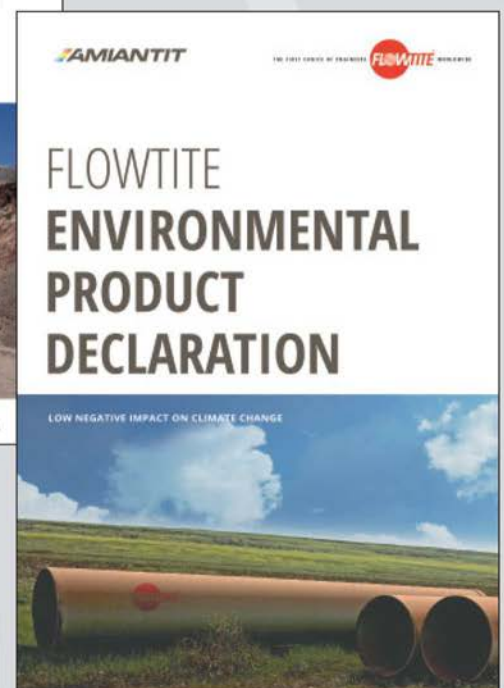
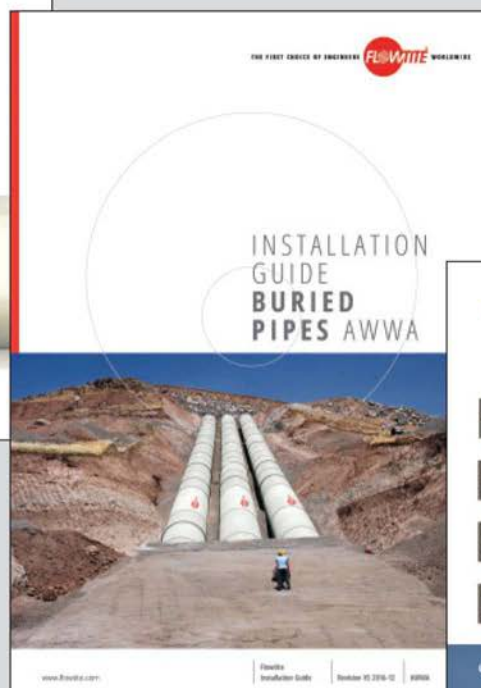
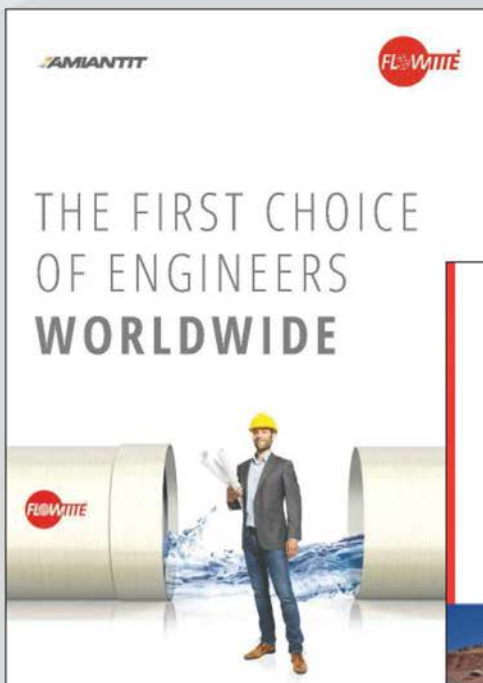


# ALL YOU NEED TO KNOW



All you need to know about installation, couplings and fittings can be found in Flowtite company literature. This literature can be found in the brochures section at [www.flowtite.com](http://www.flowtite.com) or [www.amiantit.eu](http://www.amiantit.eu).

The environmental impact of Flowtite pipes has been thoroughly documented by Flowtite, and has been certified and approved by an external body. Flowtite Grey is covered by the findings in the Flowtite Environmental Product Declaration (EPD).





# TECHNICAL DATA

The following tables provide a selection of technical data. Comprehensive information can be found in the relevant Flowtite literature, such as installation instructions, test reports, technical notes, and other documents. The numbers in these tables are approximate, nominal values,

and are subject to change without notice. For current, accurate values, please contact your local Flowtite supplier. Units used in the tables below: SN = N/m<sup>2</sup>; PN = bar; DN, DOSmax, ID MIN = mm; Weight = kg/m.

## PIPE DIMENSIONS

SN 5000		FLOWTITE GREY PIPE – ID MIN						WEIGHT SPAN	
DN	DOS max	PN 6	PN 10	PN 16	PN 20	PN 25	PN 32	from	to
300	324,5	312,7	312,8	313,6	314,7	314,7		9,0	10,5
350	376,4	362,9	363,4	364,2	365,4	365,4		12,0	14,5
400	427,3	412,1	412,8	413,9	415,0	415,1		15,2	19,0
450	478	461,2	462,1	463,4	464,5	464,6		18,8	23,9
500	530,1	511,9	512,8	514,0	515,3	515,5		23,0	29,1
600	617	596,1	597,4	598,8	600,2	600,4		30,8	39,5
700	719	695,3	696,7	698,4	699,8	700,0		41,4	53,1
800	821	794,4	796,0	797,9	799,4	799,6		53,5	68,7
900	923	893,5	895,1	897,4	899,0	899,3		67,3	86,7
1000	1025	992,5	994,3	997,0	998,6	998,9		82,5	106,7
1100	1127	1091,7	1093,5	1096,5	1098,2	1098,5		99,4	128,3
1200	1229	1190,8	1192,8	1196,0	1197,8	1198,2		117,8	152,2
1300	1331	1289,7	1292,2	1295,6	1297,4	1297,8		137,8	179,1
1400	1433	1388,6	1391,3	1395,1	1397,0	1397,4		159,2	208,0
1500	1535	1487,8	1490,7	1494,7	1496,6	1497,1		182,4	237,7
1600	1637	1586,8	1589,9	1594,2	1596,2	1596,7		207,1	270,4
1700	1739	1685,8	1689,1	1693,8	1695,8	1696,3		233,3	305,2
1800	1841	1784,9	1788,4	1793,3	1795,4	1795,9		261,2	341,3
1900	1943	1884,1	1887,7	1892,8	1895,0	1895,6		290,5	379,5
2000	2045	1983,2	1987,0	1992,3	1994,6	1995,2		321,3	419,8
2100	2147	2082,2	2086,3	2091,9	2094,2	2094,8		354,4	462,9

SN 10000 STIS *continues*

SN 10000		FLOWTITE GREY PIPE – ID MIN						WEIGHT SPAN	
DN	DOS max	PN 6	PN 10	PN 16	PN 20	PN 25	PN 32	from	to
900	923	886,7	886,7	890,3	892,5	893,3	893,7	83,7	107,7
1000	1025	985,0	985,0	989,0	991,4	992,2	992,8	102,7	132,7
1100	1127	1083,2	1083,2	1087,8	1090,2	1091,2	1091,8	124,1	160,6
1200	1229	1181,5	1181,5	1186,5	1189,1	1190,2	1190,8	147,1	190,8
1300	1331	1279,9	1279,9	1285,3	1288,0	1289,1	1289,8	172,2	223,3
1400	1433	1378,2	1378,2	1384,0	1386,9	1388,1	1388,8	199,2	258,3
1500	1535	1476,5	1476,5	1482,8	1485,8	1487,1	1487,9	228,1	296,6
1600	1637	1574,8	1574,8	1581,5	1584,7	1586,0	1586,9	259,0	336,8
1700	1739	1673,1	1673,1	1680,3	1683,5	1685,0	1685,9	291,3	379,7
1800	1841	1771,5	1771,5	1779,1	1782,4	1784,0	1784,9	326,2	425,1
1900	1943	1869,8	1869,8	1877,8	1881,3	1882,9		376,7	473,0
2000	2045	1968,3	1968,3	1976,5	1980,2	1981,9		417,0	522,8
2100	2147	2066,5	2066,5	2075,2	2079,1	2080,9		459,3	576,6
2200	2249	2164,8	2164,8	2174,0	2178,0	2179,9		503,3	632,7
2300	2351	2263,2	2263,2	2272,8	2276,8	2278,8		548,9	690,4
2400	2453	2361,5	2361,5	2371,5	2375,7	2377,8		597,2	751,5
2500	2555	2459,9	2459,9	2470,2	2474,6			676,9	815,0
2600	2657	2558,2	2558,2	2569,0	2573,5			730,8	880,7
2700	2759	2656,5	2656,5	2667,7	2672,3			786,3	950,0
2800	2861	2754,9	2754,9	2766,5	2771,2			846,1	1019,5
2900	2963	2853,1	2853,1	2865,3	2870,1			906,2	1095,1
3000	3065	2951,5	2951,5	2964,0	2969,0			970,7	1170,6
3100	3167	3049,9	3049,9	3062,8				1091,4	1249,3
3200	3269	3148,2	3148,2	3161,4				1163,4	1330,7
3300	3371	3246,5	3246,5	3260,2				1236,5	1414,3
3400	3473	3344,8	3344,8	3358,9				1312,5	1501,8
3500	3575								
3600	3677								
3700	3779								
3800	3881								
3900	3983								
4000	4085								
3900	3 983.0								
4000	4 085.0								



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Find more information and contact details at [www.amiblu.com](http://www.amiblu.com)



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All values listed in the product specifications are nominal. Unsatisfactory product results or applications may occur due to environmental fluctuations, variations in operating procedures, or interpolation of data. We highly recommend that any personnel using this data have specialized training and expertise in the application of the products and their normal installation and operating conditions as well as any particular requirements and the degree of care required for product installation or service.

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