

# BULLETLINER SYSTEM™ Trenchless Rehabilitation



BulletLiner System™ FFRP is an innovative technology for the trenchless rehabilitation of pressure pipelines suitable for water, wastewater, gas and oil. The liner is flexible, foldable and light with the material strength of a steel pipeline. Due to the extreme flexibility it opens up a variety of rehab applications without having to trench and remove pipeline around your city or commercial property. Installation requires two small excavation pits or access points for rehabilitating a deteriorated section of pipe. This reduces the conventional pipeline replacement noise, traffic disturbances, time-consuming reconstruction as well as environmental and economic impacts to surrounding landscape and businesses. NSF 61 approved and suitable for the transportation of various liquids including potable water, reclaimed water, wastewater; with drinking water approvals in numerous countries.



## Technical Specifications

Nominal Host Pipe ID (inches)	Independent Operating Pressure (PSI)	BulletLiner System™ Wall Thickness (inches)	Maximum Manufactured OD	Max. Expanded OD at Independent Operating Pressure	Tensile Strength (tons)	Weight (lbs./foot)
2	305	0.14	2.1	2.1	8	0.44
3	305	0.14	3.2	3.3	12	0.77
4	232	0.20	4.2	4.4	18	0.91
5	232	0.20	4.8	5.0	26	0.99
6	232	0.20	6.0	6.3	27	1.48
8	232	0.24	7.6	8.0	28	1.65
10	232	0.24	9.6	10.0	49	2.69
11	232	0.24	10.4	11.0	54	2.96
12	232	0.24	11.5	12.1	58	2.69
14	145	0.24	13.5	14.2	63	3.49
<b>14</b>	<b>232</b>	<b>0.24</b>	<b>13.5</b>	<b>14.0</b>	<b>91</b>	<b>3.49</b>
16	145	0.23	1.5	16.3	75	4.27
<b>16</b>	<b>232</b>	<b>0.24</b>	<b>15.5</b>	<b>16.0</b>	<b>107</b>	<b>4.27</b>
18	145	0.24	17.4	18.4	105	5.17
<b>18</b>	<b>232</b>	<b>0.24</b>	<b>17.4</b>	<b>18.0</b>	<b>119</b>	<b>5.17</b>
20	145	0.26	19.4	20.4	117	6.11
<b>20</b>	<b>232</b>	<b>0.26</b>	<b>19.4</b>	<b>20.1</b>	<b>129</b>	<b>6.11</b>
24	87	0.31	23.0	24.2	152	7.19
<b>24</b>	<b>145</b>	<b>0.31</b>	<b>23.8</b>	<b>24.6</b>	<b>152</b>	<b>9.18</b>
28	87	0.31	27.2	28.6	180	9.18
<b>28</b>	<b>145</b>	<b>0.31</b>	<b>27.2</b>	<b>28.5</b>	<b>180</b>	<b>9.18</b>
30	87	0.31	29.3	30.9	195	9.58
<b>30</b>	<b>145</b>	<b>0.31</b>	<b>29.3</b>	<b>30.3</b>	<b>195</b>	<b>9.58</b>
32	87	0.31	30.9	32.6	212	10.21
<b>32</b>	<b>145</b>	<b>0.31</b>	<b>30.0</b>	<b>32</b>	<b>212</b>	<b>10.21</b>
36	87	0.31	34.8	36.9	249	10.88
40	58	0.31	38.8	40.1	230	12.83
48	73	0.31	45.7	47.3	250	16.13

- AFR Water Liner is manufactured using Polyester Warp with a Polyester and Kevlar Weft to CPM Pipelines specifications.
- CPM Pipelines will design and manufacture BulletLiner System™ to higher pressures, and up to 48-inches in diameter.
- Bold items indicate higher pressure manufactured using Kevlar Weft.

