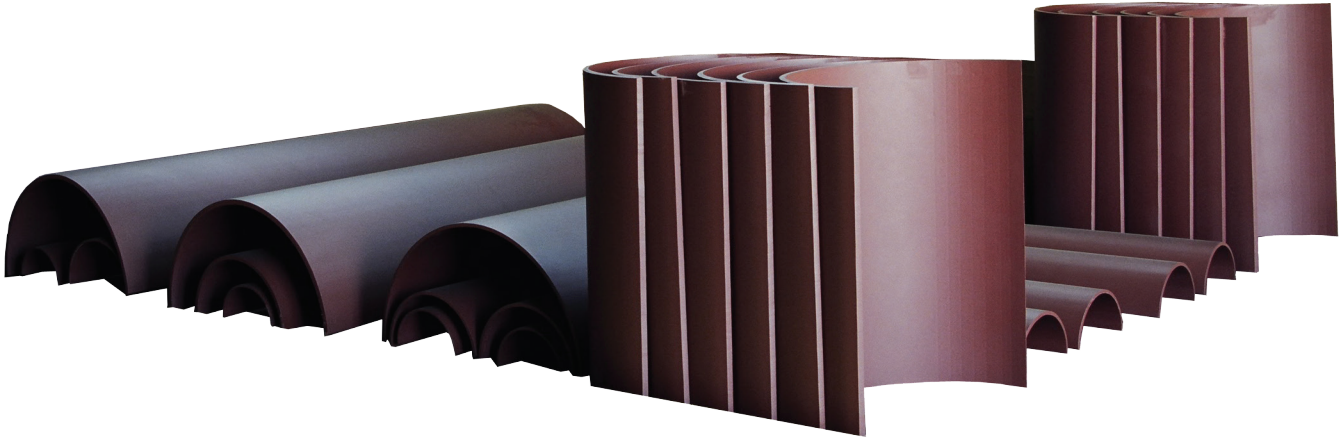


PLIDCO® SOLE+MATES™

Welded Reinforcing and Pressure Containing Sleeves



PLIDCO® Sole+Mates are designed to reinforce corroded, dented, or damaged pipelines. The PLIDCO® Sole+Mates are custom designed per application to fit properly on the outside diameter of the pipeline. The sleeve must be welded longitudinally, and can be welded circumferentially for pressure containment (Type B), or left unwelded (Type A).

PLIDCO® Sole+Mates are designed to conform with the requirements of ASME PCC-2, ASME B31.4, & ASME B31.8. Customers specify the wall thickness and material yield strength, or provide the design factor (class location) and design pressure of the pipeline and PLIDCO® will calculate the required thickness.

All PLIDCO® Sole+Mates are furnished with 0.063" (1.6 mm) thick backing strips in order to assist with the longitudinal butt welds. Since each Sole+Mate is custom manufactured, customers can choose to have standard non-grooved (Diagram A) or grooved (Diagram B) to hold the backing strips.

Standard Body Materials:

- A-516 Gr.70
- A-572 Gr.50

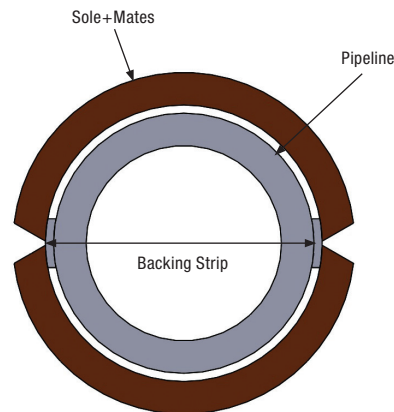
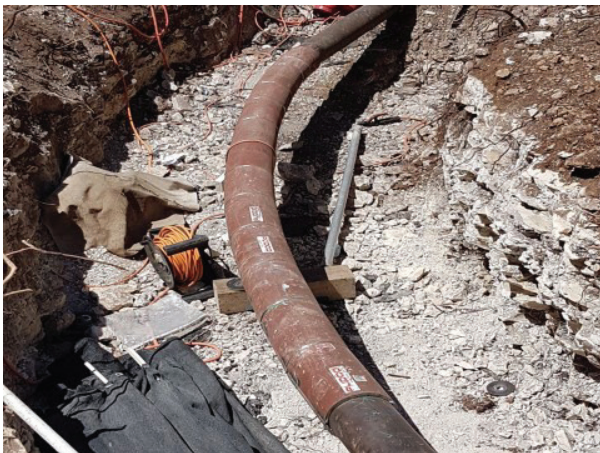


Diagram A

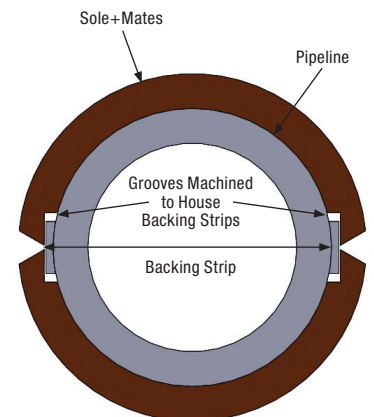


Diagram B

Maximum Allowable Operating Pressure (MAOP) - Pounds per Square Inch (PSI)

CLASS I Sparsely Populated Areas									
API Nominal Pipe Size (In.)	NON-GROOVED				GROOVED				
	A-516 Gr.70								
	1/4" Wall	5/16" Wall	3/8" Wall	1/2" Wall	1/4" Wall	5/16" Wall	3/8" Wall	1/2" Wall	
4	2669	3257	3817	4863	2035	2648	3232	4321	
6	1886	2318	2735	3530	1431	1876	2306	3123	
8	1478	1824	2159	2806	1119	1472	1816	2476	
10	1202	1486	1765	2303	908	1198	1481	2030	
12	1022	1266	1506	1971	772	1019	1262	1736	
14	935	1159	1379	1808	705	932	1156	1591	
16	822	1020	1215	1597	620	820	1018	1404	
18	734	912	1087	1430	553	732	910	1257	
20	663	824	982	1295	499	661	822	1137	
22	604	751	897	1183	455	603	750	1039	
24	555	690	824	1088	418	554	689	956	
26	513	639	763	1008	386	513	638	885	
28	477	594	710	939	359	477	593	824	
30	446	556	664	879	335	446	555	771	

CLASS II Fringe Areas Around Urban Centers									
API Nominal Pipe Size (In.)	NON-GROOVED				GROOVED				
	A-516 Gr.70								
	1/4" Wall	5/16" Wall	3/8" Wall	1/2" Wall	1/4" Wall	5/16" Wall	3/8" Wall	1/2" Wall	
4	2224	2714	3181	4053	1696	2207	2693	3601	
6	1572	1932	2279	2941	1193	1563	1921	2602	
8	1232	1520	1799	2338	932	1227	1513	2064	
10	1002	1239	1470	1919	757	998	1234	1692	
12	852	1055	1255	1643	643	849	1052	1446	
14	779	966	1149	1507	588	777	963	1326	
16	685	850	1013	1331	516	684	848	1170	
18	612	760	905	1192	461	610	758	1047	
20	552	686	819	1079	416	551	685	948	
22	503	626	747	985	379	502	625	865	
24	462	575	687	907	348	462	574	796	
26	428	532	636	840	322	427	531	737	
28	398	495	592	782	299	397	494	686	
30	372	463	553	732	279	371	462	642	

CLASS III Average Commercial & Residential Areas									
API Nominal Pipe Size (In.)	NON-GROOVED				GROOVED				
	A-516 Gr.70								
	1/4" Wall	5/16" Wall	3/8" Wall	1/2" Wall	1/4" Wall	5/16" Wall	3/8" Wall	1/2" Wall	
4	1853	2261	2651	3377	1413	1839	2244	3000	
6	1310	1610	1899	2451	994	1303	1601	2168	
8	1027	1266	1499	1948	777	1022	1261	1720	
10	835	1032	1225	1600	631	832	1029	1410	
12	710	879	1045	1369	536	708	877	1205	
14	649	805	957	1256	490	647	802	1105	
16	571	708	844	1109	430	570	707	975	
18	510	633	754	993	384	508	631	873	
20	460	572	682	899	346	459	571	790	
22	419	521	622	821	316	419	521	721	
24	385	479	572	756	290	385	479	663	
26	356	443	530	700	268	356	443	614	
28	331	413	493	652	249	331	412	572	
30	310	386	461	610	233	309	385	535	

CLASS IV Densely Populated Areas									
API Nominal Pipe Size (In.)	NON-GROOVED				GROOVED				
	A-516 Gr.70								
	1/4" Wall	5/16" Wall	3/8" Wall	1/2" Wall	1/4" Wall	5/16" Wall	3/8" Wall	1/2" Wall	
4	1482	1809	2120	2702	1130	1471	1795	2400	
6	1048	1288	1519	1961	795	1042	1281	1735	
8	821	1013	1199	1558	621	818	1009	1376	
10	668	826	980	1280	504	665	823	1128	
12	568	703	836	1095	428	566	701	964	
14	519	644	766	1004	392	518	642	884	
16	457	567	675	887	344	456	565	780	
18	408	506	603	794	307	407	505	698	
20	368	457	546	719	277	367	456	632	
22	335	417	498	657	252	335	416	577	
24	308	383	458	604	232	308	383	531	
26	285	355	424	560	214	285	354	491	
28	265	330	394	521	199	265	329	457	
30	248	308	369	488	186	247	308	428	