

# Smoothwall Petroduct™



Petroflex Petroduct™ smoothwall HDPE conduit is ideal for installation of cable or fiber in any underground application. Petroduct smoothwall is manufactured with a smooth inner wall and is available in many different sizes and color variations from quality HDPE Pipe Grade Resin with a smooth inner wall. Manufactured to ASTM D2447, D3035 (F2160), D1693, D3350, D2239 (ID controlled pipe only) and NEMA TC7 Specifications.

## STANDARD SPECIFICATIONS FOR NEMA TC7

SIZE	PRODUCT PART #	NOMINAL O.D.	MIN I.D.	MEAN WALL	WEIGHT LBS/ FT
.75"	P075NTC7	1.050	0.910	0.070	0.0820
1.00"	P100NTC7	1.315	1.145	0.085	0.1280
1.25"	P125NTC7	1.660	1.440	0.110	0.2140
1.50"	P150NTC7	1.900	1.650	0.125	0.2820
2.00"	P200NTC7	2.375	2.045	0.155	0.4452
2.50"	P250NTC7	2.875	2.445	0.213	0.7440
3.00"	P300NTC7	3.550	3.042	0.226	0.9700



### COMPARISON OF SCH WALLS TO SDR WALLS

PIPE SIZE	SCH MIN WALL	EQUAL SDR RATING
2" SCH40	.154"	15.4
2" SCH80	.218"	10.9
2-1/2" SCH40	.203"	14.2
2-1/2" SCH80	.276"	10.4
3" SCH40	.216"	16.2
3" SCH80	.300"	11.7
4" SCH40	.237"	19.0
4" SCH80	.337"	13.4

When equaling the two, the figures clearly show that there is no consistency between SCH wall thickness and SDR rating.

### STANDARD DIMENSION RATIO (SDR)

SDR RATINGS ARE DIRECTLY PROPORTIONAL TO THE O.D. OF THE PIPE AS FOLLOWS:

$$SDR = \frac{O.D.}{MIN. WALL} \quad \text{OR} \quad MIN. WALL = \frac{O.D.}{SDR}$$

THEREFORE: WALL THICKNESS WILL RANGE FROM .213" TO .239".

WE HAVE CLASSIFIED HDPE PIPE AS FOLLOWS:

- SDR 15.5= LIGHT DUTY
- SDR 13.5= REGULAR DUTY
- SDR 11.0= HEAVY DUTY

NOTE: All pipe diameters with the same SDR in the same burial conditions have the same critical collapse, buckling and/or load bearing endurances. (Please reference Petroflex Technical Data.)

# SMOOTHWALL LISTED SPECIFICATIONS

SIZE	PRODUCT PART #	SDR/SCH RATING	NOMINAL O.D.	MIN I.D.	MIN WALL	MAX WALL	WEIGHT LBS/FT	MEAN WALL	MEAN DENSITY	
.50"	P050	13.5	0.840	0.676	0.062	0.082	0.0715	0.072	0.950	
	P050	11	0.840	0.647	0.076	0.096	0.0839	0.086	0.950	
	P050	SCH40	0.840	0.582	0.109	0.129	0.110	0.119	0.950	
	P050	SCH80	0.840	0.506	0.147	0.167	0.1387	0.157	0.950	
0.75"	P075	13.5	1.050	0.854	0.078	0.098	0.1095	0.088	0.950	
	P075	11	1.050	0.820	0.095	0.115	0.1284	0.105	0.950	
	P075	SCH40	1.050	0.784	0.113	0.133	0.1475	0.123	0.950	
	P075	SCH80	1.050	0.702	0.154	0.174	0.1880	0.164	0.950	
1.00"	P100	17	1.315	1.120	0.077	0.097	0.1382	0.087	0.950	
	P100	15.5	1.315	1.105	0.085	0.105	0.1499	0.095	0.950	
	P100	13.5	1.315	1.080	0.097	0.117	0.1672	0.107	0.950	
	P100	11	1.315	1.036	0.120	0.140	0.1993	0.130	0.950	
	P100	9	1.315	0.983	0.146	0.166	0.2339	0.156	0.950	
	P100	7	1.315	0.889	0.188	0.211	0.2890	0.200	0.950	
	P100	SCH40	1.315	1.009	0.133	0.153	0.2168	0.143	0.950	
	P100	SCH80	1.315	0.917	0.179	0.199	0.2754	0.189	0.950	
	1.25"	P125	13.5	1.660	1.374	0.123	0.143	0.2628	1.330	0.950
		P125	11.5	1.660	1.332	0.144	0.164	0.3001	0.154	0.950
P125		11	1.660	1.318	0.151	0.171	0.3123	0.161	0.950	
P125		9	1.660	1.248	0.184	0.206	0.3696	0.195	0.950	
P125		7	1.660	1.130	0.237	0.265	0.4576	0.251	0.950	
P125		SCH40	1.660	1.340	0.140	0.160	0.2931	0.150	0.950	
P125		SCH80	1.660	1.232	0.191	0.214	0.38217	0.203	0.950	
1.50"		P150	15.5	1.900	1.615	0.123	0.143	0.3041	0.133	0.950
	P150	13.5	1.900	1.579	0.141	0.161	0.3417	0.151	0.950	
	P150	11.5	1.900	1.530	0.165	0.185	0.3906	0.175	0.950	
	P150	11	1.900	1.515	0.173	0.194	0.4065	0.183	0.950	
	P150	9	1.900	1.428	0.211	0.236	0.4857	0.224	0.950	
	P150	SCH40	1.900	1.570	0.145	0.165	0.3500	0.155	0.950	
	P150	SCH80	1.900	1.452	0.200	0.224	0.4630	0.212	0.950	
	2.00"	P200	17	2.375	2.056	0.140	0.160	0.4318	0.150	0.950
P200		15.5	2.375	2.029	0.153	0.173	0.4665	0.163	0.950	
P200		13.5	2.375	1.981	0.176	0.197	0.5268	0.186	0.950	
P200		11	2.375	1.891	0.216	0.242	0.6358	0.229	0.950	
P200		9	2.375	1.781	0.264	0.296	0.7590	0.280	0.950	
P200		7	2.375	1.614	0.339	0.380	0.9386	0.360	0.950	
P200		SCH40	2.375	2.027	0.154	0.174	0.4692	0.164	0.950	
P200		SCH80	2.375	1.887	0.218	0.244	0.6408	0.231	0.950	

# SMOOTHWALL LISTED SPECIFICATIONS

SIZE	PRODUCT PART #	SDR/SCH RATING	NOMINAL O.D.	MIN I.D.	MIN WALL	MAX WALL	WEIGHT LBS/FT	MEAN WALL	MEAN DENSITY
2.50"	P250	13.5	2.875	2.397	0.213	0.239	0.7746	0.226	0.950
	P250	11	2.875	2.288	0.261	0.293	0.9311	0.277	0.950
	P250	SCH40	2.875	2.421	0.203	0.227	0.7400	0.215	0.950
	P250	SCH80	2.875	2.257	0.276	0.309	0.9774	0.293	0.950
3.00"	P300	13.5	3.500	2.919	0.259	0.290	1.1437	0.274	0.950
	P300	11	3.500	2.788	0.318	0.356	1.3792	0.337	0.950
	P300	9	3.500	2.628	0.389	0.436	1.6461	0.412	0.950
	P300	7	3.500	3.016	0.216	0.242	0.9692	0.229	0.950
	P300	SCH40	3.500	3.016	0.216	0.242	0.9692	0.229	0.950
	P300	SCH80	3.500	2.828	0.300	0.336	1.3092	0.318	0.950
4.00"	P400	13.5	4.500	3.753	0.333	0.373	1.8941	0.353	0.950
	P400	11	4.500	3.584	0.409	0.458	2.2832	0.434	0.950
	P400	9	4.500	3.380	0.500	0.560	2.7224	0.530	0.950
	P400	7	4.500	3.146	0.643	0.720	3.3650	0.681	0.950
	P400	SCH40	4.500	3.970	0.237	0.265	1.3851	0.252	0.950
	P400	SCH80	4.500	3.746	0.337	0.337	1.9137	0.357	0.950
<b>Size</b>	<b>PRODUCT PART #</b>	<b>SIDR RATING</b>	<b>NOMINAL O.D.</b>	<b>MIN I.D.</b>	<b>MIN WALL</b>	<b>MAX WALL</b>	<b>WEIGHT LBS/FT</b>	<b>MEAN WALL</b>	<b>MEAN DENSITY</b>
4.00"	P400	11.5	4.727	3.991	0.347	0.389	2.0758	0.368	0.950
<b>SIZE</b>	<b>PRODUCT PART #</b>	<b>SDR/SCH RATING</b>	<b>NOMINAL O.D.</b>	<b>MIN I.D.</b>	<b>MIN WALL</b>	<b>MAX WALL</b>	<b>WEIGHT LBS/FT</b>	<b>MEAN WALL</b>	<b>MEAN DENSITY</b>
5.00"	P500	13.5	5.563	4.639	0.412	0.461	2.8983	0.437	0.950
	P500	11	5.563	4.430	0.506	0.567	3.4863	0.536	0.950
	P500	9	5.63	4.179	0.618	0.692	4.1594	0.65	0.950
	P500	SCH40	5.63	4.985	0.258	0.289	1.8750	0.274	0.950
	P500	SCH80	5.63	4.723	0.375	0.420	2.6598	0.398	0.950
6.00"	P600	13.5	6.625	5.526	0.491	0.550	4.1075	0.520	0.950
	P600	11	6.625	5.5276	0.602	0.674	4.9422	0.638	0.950
	P600	9	6.625	4.977	0.736	0.824	5.8988	0.780	0.950
	P600	7	6.625	4.504	0.946	1.060	7.2659	1.003	0.950
	P600	SCH40	6.625	5.997	0.280	0.3414	2.4317	0.297	0.950
	P600	SCH80	6.625	5.657	0.432	0.484	3.6545	0.458	0.950