

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 Prime 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.

Features:

- Available with pre-installed tape or empty
- Available pre-lubricated with Petroflex's own ProPull™ Lube
- Sequential footage markings every two feet
- RUS listed
- Standard colors (striping & co-extruded are available)



Standard Specifications for NEMA TC7

| Size | Product Part# | Nominal O.D. | Min. I.D. | Weight LBS/Ft. | Mean Wall |
|-------|---------------|--------------|-----------|----------------|-----------|
| 0.75" | P075NTC7 | 1.050 | 0.910 | 0.0820 | 0.070 |
| 1.00" | P100NTC7 | 1.315 | 1.145 | 0.1280 | 0.085 |
| 1.25" | P125NTC7 | 1.660 | 1.440 | 0.2140 | 0.110 |
| 1.50" | P150NTC7 | 1.900 | 1.650 | 0.2820 | 0.125 |
| 2.00" | P200NTC7 | 2.375 | 2.045 | 0.4452 | 0.155 |
| 2.50" | P250NTC7 | 2.875 | 2.445 | 0.7440 | 0.213 |
| 3.00" | P300NTC7 | 3.500 | 3.042 | 0.9700 | 0.226 |

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:

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

$$\text{MIN WALL} = \quad (+0.26" \text{ TOLERANCE})$$

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 endurance. (Please reference Petroflex Technical Data.)

SMOOTHWALL

Standard Specifications for 13mm Petroduct

MEAN DENSITY 0.950

| Product Part# | SDR/SCH Rating | Nominal O.D. | Min. I.D. | Min Wall | Max Wall | Weight LBS/Ft. | Mean Wall |
|---------------|----------------|--------------|-----------|----------|----------|----------------|-----------|
| P13mm | 17 | 0.625 | 0.511 | 0.037 | 0.057 | 0.0350 | 0.047 |
| P13mm | 15.5 | 0.625 | 0.504 | 0.040 | 0.060 | 0.0372 | 0.050 |
| P13mm | 13.5 | 0.625 | 0.492 | 0.046 | 0.066 | 0.0412 | 0.056 |
| P13mm | 11 | 0.625 | 0.471 | 0.057 | 0.077 | 0.0484 | 0.067 |
| P13mm | 9 | 0.625 | 0.446 | 0.069 | 0.089 | 0.0558 | 0.079 |
| P13mm | 7 | 0.625 | 0.406 | 0.089 | 0.109 | 0.0674 | 0.099 |

Standard Specifications for 1/2" Petroduct

MEAN DENSITY 0.950

| Product Part# | SDR/SCH Rating | Nominal O.D. | Min. I.D. | Min Wall | Max Wall | Weight LBS/Ft. | Mean Wall |
|---------------|----------------|--------------|-----------|----------|----------|----------------|-----------|
| P050 | 17 | 0.840 | 0.701 | 0.049 | 0.069 | 0.0600 | 0.059 |
| P050 | 15.5 | 0.840 | 0.692 | 0.054 | 0.074 | 0.0643 | 0.064 |
| P050 | 13.5 | 0.840 | 0.676 | 0.062 | 0.082 | 0.0715 | 0.072 |
| P050 | 11 | 0.840 | 0.647 | 0.076 | 0.096 | 0.0839 | 0.086 |
| P050 | 9 | 0.840 | 0.613 | 0.093 | 0.113 | 0.0982 | 0.103 |
| P050 | 7 | 0.840 | 0.560 | 0.120 | 0.140 | 0.1194 | 0.130 |
| P050 | SCH40 | 0.840 | 0.582 | 0.109 | 0.129 | 0.1110 | 0.119 |
| P050 | SCH80 | 0.840 | 0.506 | 0.147 | 0.167 | 0.1387 | 0.157 |

Standard Specifications for 3/4" Petroduct

MEAN DENSITY 0.950

| Product Part# | SDR/SCH Rating | Nominal O.D. | Min. I.D. | Min Wall | Max Wall | Weight LBS/Ft. | Mean Wall |
|---------------|----------------|--------------|-----------|----------|----------|----------------|-----------|
| P075 | 17 | 1.050 | 0.886 | 0.062 | 0.082 | 0.0911 | 0.072 |
| P075 | 15.5 | 1.050 | 0.874 | 0.068 | 0.088 | 0.0981 | 0.078 |
| P075 | 13.5 | 1.050 | 0.854 | 0.078 | 0.098 | 0.1095 | 0.088 |
| P075 | 11 | 1.050 | 0.820 | 0.095 | 0.115 | 0.1284 | 0.105 |
| P075 | 9 | 1.050 | 0.776 | 0.117 | 0.137 | 0.1517 | 0.127 |
| P075 | 7 | 1.050 | 0.710 | 0.150 | 0.170 | 0.1842 | 0.160 |
| P075 | SCH40 | 1.050 | 0.784 | 0.113 | 0.133 | 0.1475 | 0.123 |
| P075 | SCH80 | 1.050 | 0.702 | 0.154 | 0.174 | 0.1880 | 0.164 |

Standard Specifications for 1" Petroduct

MEAN DENSITY 0.950

| Product Part# | SDR/SCH Rating | Nominal O.D. | Min. I.D. | Min Wall | Max Wall | Weight LBS/Ft. | Mean Wall |
|---------------|----------------|--------------|-----------|----------|----------|----------------|-----------|
| P100 | 17 | 1.315 | 1.120 | 0.077 | 0.097 | 0.1382 | 0.087 |
| P100 | 15.5 | 1.315 | 1.105 | 0.085 | 0.105 | 0.1499 | 0.095 |
| P100 | 13.5 | 1.315 | 1.080 | 0.097 | 0.117 | 0.1672 | 0.107 |
| P100 | 11 | 1.315 | 1.036 | 0.120 | 0.140 | 0.1993 | 0.130 |
| P100 | 9 | 1.315 | 0.983 | 0.146 | 0.166 | 0.2339 | 0.156 |
| P100 | 7 | 1.315 | 0.889 | 0.188 | 0.211 | 0.2890 | 0.200 |
| P100 | SCH40 | 1.315 | 1.009 | 0.133 | 0.153 | 0.2168 | 0.143 |
| P100 | SCH80 | 1.315 | 0.917 | 0.179 | 0.199 | 0.2754 | 0.189 |

| Product Part# | SDIR Rating | Nominal O.D. | Min. I.D. | Min Wall | Max Wall | Weight LBS/Ft. | Mean Wall |
|---------------|-------------|--------------|-----------|----------|----------|----------------|-----------|
| P100 | 13.0 | 1.231 | 1.029 | 0.081 | 0.101 | 0.1342 | 0.091 |
| P100 | 11.5 | 1.251 | 1.029 | 0.091 | 0.111 | 0.1503 | 0.101 |

Specifications

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Standard Specifications for 1 1/8" Petroduct MEAN DENSITY 0.950

| Product Part# | SDR/SCH Rating | Nominal O.D. | Min. I.D. | Min Wall | Max Wall | Weight LBS/Ft. | Mean Wall |
|---------------|----------------|--------------|-----------|----------|----------|----------------|-----------|
| P118 | 17 | 1.420 | 1.213 | 0.084 | 0.104 | 0.1613 | 0.094 |
| P118 | 15.5 | 1.420 | 1.197 | 0.092 | 0.112 | 0.1739 | 0.102 |
| P118 | 13.5 | 1.420 | 1.170 | 0.105 | 0.125 | 0.1942 | 0.115 |
| P118 | 11 | 1.420 | 1.122 | 0.129 | 0.149 | 0.2304 | 0.139 |
| P118 | SCH40 | 1.420 | 1.106 | 0.137 | 0.157 | 0.2400 | 0.147 |

Standard Specifications for 1 1/4" Petroduct MEAN DENSITY 0.950

| Product Part# | SDR/SCH Rating | Nominal O.D. | Min. I.D. | Min Wall | Max Wall | Weight LBS/Ft. | Mean Wall |
|---------------|----------------|--------------|-----------|----------|----------|----------------|-----------|
| P125 | 17 | 1.660 | 1.425 | 0.098 | 0.098 | 0.1382 | 0.087 |
| P125 | 15.5 | 1.660 | 1.406 | 0.107 | 0.107 | 0.1499 | 0.095 |
| P125 | 13.5 | 1.660 | 1.374 | 0.123 | 0.123 | 0.1672 | 0.107 |
| P125 | 11.5 | 1.660 | 1.332 | 0.144 | 0.144 | 0.1993 | 0.130 |
| P125 | 11 | 1.660 | 1.318 | 0.151 | 0.151 | 0.3123 | 0.161 |
| P125 | 9 | 1.660 | 1.248 | 0.184 | 0.184 | 0.2339 | 0.156 |
| P125 | 7 | 1.660 | 1.130 | 0.237 | 0.237 | 0.2890 | 0.200 |
| P125 | SCH40 | 1.660 | 1.340 | 0.140 | 0.140 | 0.2168 | 0.143 |
| P125 | SCH80 | 1.660 | 1.232 | 0.191 | 0.191 | 0.2754 | 0.189 |

| Product Part# | SDIR Rating | Nominal O.D. | Min. I.D. | Min Wall | Max Wall | Weight LBS/Ft. | Mean Wall |
|---------------|-------------|--------------|-----------|----------|----------|----------------|-----------|
| P125 | 17 | 1.542 | 1.360 | 0.081 | 0.101 | 0.1708 | 0.091 |
| P125 | 15.5 | 1.558 | 1.360 | 0.089 | 0.109 | 0.1869 | 0.099 |
| P125 | 13 | 1.592 | 1.360 | 0.106 | 0.126 | 0.2215 | 0.116 |
| P125 | 11.5 | 1.62 | 1.360 | 0.120 | 0.140 | 0.2506 | 0.130 |
| P125 | 9 | 1.686 | 1.360 | 0.153 | 0.173 | 0.3212 | 0.163 |

Standard Specifications for 1 1/2" Petroduct MEAN DENSITY 0.950

| Product Part# | SDR/SCH Rating | Nominal O.D. | Min. I.D. | Min Wall | Max Wall | Weight LBS/Ft. | Mean Wall |
|---------------|----------------|--------------|-----------|----------|----------|----------------|-----------|
| P150 | 17 | 1.900 | 1.636 | 0.112 | 0.132 | 0.2807 | 0.122 |
| P150 | 16.5 | 1.900 | 1.630 | 0.115 | 0.135 | 0.2871 | 0.125 |
| P150 | 15.5 | 1.900 | 1.615 | 0.123 | 0.143 | 0.3041 | 0.133 |
| P150 | 13.5 | 1.900 | 1.579 | 0.141 | 0.161 | 0.3417 | 0.151 |
| P150 | 11.5 | 1.900 | 1.530 | 0.165 | 0.185 | 0.3906 | 0.175 |
| P150 | 11 | 1.900 | 1.515 | 0.173 | 0.194 | 0.4065 | 0.183 |
| P150 | 9 | 1.900 | 1.428 | 0.211 | 0.236 | 0.4857 | 0.224 |
| P150 | 7 | 1.900 | 1.292 | 0.271 | 0.304 | 0.5990 | 0.287 |
| P150 | SCH40 | 1.900 | 1.570 | 0.145 | 0.165 | 0.3500 | 0.155 |
| P150 | SCH80 | 1.900 | 1.452 | 0.200 | 0.224 | 0.4630 | 0.212 |

| Product Part# | SDIR Rating | Nominal O.D. | Min. I.D. | Min Wall | Max Wall | Weight LBS/Ft. | Mean Wall |
|---------------|-------------|--------------|-----------|----------|----------|----------------|-----------|
| P150 | 19 | 1.780 | 1.590 | 0.085 | 0.105 | 0.2071 | 0.095 |
| P150 | 15 | 1.824 | 1.590 | 0.107 | 0.127 | 0.2584 | 0.117 |
| P150 | 11 | 1.902 | 1.590 | 0.146 | 0.166 | 0.3524 | 0.156 |
| P150 | 9 | 1.968 | 1.590 | 0.179 | 0.199 | 0.4350 | 0.189 |

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Standard Specifications for 2" Petroduct

MEAN DENSITY 0.950

| Product Part# | SDR/SCH Rating | Nominal O.D. | Min. I.D. | Min Wall | Max Wall | Weight LBS/Ft. | Mean Wall |
|---------------|----------------|--------------|-----------|----------|----------|----------------|-----------|
| P200 | 21 | 2.375 | 2.109 | 0.113 | 0.133 | 0.3584 | 0.123 |
| P200 | 17 | 2.375 | 2.056 | 0.140 | 0.160 | 0.4318 | 0.150 |
| P200 | 15.5 | 2.375 | 2.029 | 0.153 | 0.173 | 0.4665 | 0.163 |
| P200 | 13.5 | 2.375 | 1.981 | 0.176 | 0.197 | 0.5268 | 0.186 |
| P200 | 11 | 2.375 | 1.891 | 0.216 | 0.242 | 0.6358 | 0.229 |
| P200 | 9 | 2.375 | 1.781 | 0.264 | 0.296 | 0.7590 | 0.280 |
| P200 | 7 | 2.375 | 1.614 | 0.339 | 0.380 | 0.9386 | 0.360 |
| P200 | SCH40 | 2.375 | 2.027 | 0.154 | 0.174 | 0.4692 | 0.164 |
| P200 | SCH80 | 2.375 | 1.887 | 0.218 | 0.244 | 0.6408 | 0.231 |

| Product Part# | SIDR Rating | Nominal O.D. | Min. I.D. | Min Wall | Max Wall | Weight LBS/Ft. | Mean Wall |
|---------------|-------------|--------------|-----------|----------|----------|----------------|-----------|
| P200 | 19 | 2.282 | 2.047 | 0.108 | 0.128 | 0.3304 | 0.118 |
| P200 | 15 | 2.340 | 2.047 | 0.136 | 0.156 | 0.4145 | 0.146 |
| P200 | 11.5 | 2.423 | 2.047 | 0.178 | 0.198 | 0.5437 | 0.188 |
| P200 | 9 | 2.522 | 2.047 | 0.227 | 0.247 | 0.7007 | 0.237 |

Standard Specifications for 2 1/2" Petroduct

MEAN DENSITY 0.950

| Product Part# | SDR/SCH Rating | Nominal O.D. | Min. I.D. | Min Wall | Max Wall | Weight LBS/Ft. | Mean Wall |
|---------------|----------------|--------------|-----------|----------|----------|----------------|-----------|
| P250 | 21 | 2.875 | 2.561 | 0.137 | 0.157 | 0.5189 | 0.147 |
| P250 | 17 | 2.875 | 2.491 | 0.169 | 0.189 | 0.6244 | 0.179 |
| P250 | 15.5 | 2.875 | 2.464 | 0.185 | 0.207 | 0.6794 | 0.196 |
| P250 | 13.5 | 2.875 | 2.397 | 0.213 | 0.239 | 0.7746 | 0.226 |
| P250 | 11 | 2.875 | 2.288 | 0.261 | 0.293 | 0.9311 | 0.277 |
| P250 | 9 | 2.875 | 2.172 | 0.319 | 0.358 | 1.1095 | 0.338 |
| P250 | 7 | 2.875 | 1.990 | 0.411 | 0.461 | 1.3759 | 0.436 |
| P250 | SCH40 | 2.875 | 2.421 | 0.203 | 0.227 | 0.7400 | 0.215 |
| P250 | SCH80 | 2.875 | 2.257 | 0.276 | 0.309 | 0.9774 | 0.293 |

Standard Specifications for 3" Petroduct

MEAN DENSITY 0.950

| Product Part# | SDR/SCH Rating | Nominal O.D. | Min. I.D. | Min Wall | Max Wall | Weight LBS/Ft. | Mean Wall |
|---------------|----------------|--------------|-----------|----------|----------|----------------|-----------|
| P300 | 32.5 | 3.500 | 3.245 | 0.108 | 0.128 | 0.5163 | 0.118 |
| P300 | 21 | 3.500 | 3.127 | 0.167 | 0.187 | 0.7610 | 0.177 |
| P300 | 17 | 3.500 | 3.038 | 0.206 | 0.231 | 0.9297 | 0.219 |
| P300 | 15.5 | 3.500 | 2.994 | 0.226 | 0.253 | 1.0084 | 0.239 |
| P300 | 13.5 | 3.500 | 2.919 | 0.259 | 0.290 | 1.1437 | 0.274 |
| P300 | 11 | 3.500 | 2.788 | 0.318 | 0.356 | 1.3792 | 0.337 |
| P300 | 9 | 3.500 | 2.628 | 0.389 | 0.436 | 1.6461 | 0.412 |
| P300 | 7 | 3.500 | 2.380 | 0.500 | 0.560 | 2.0367 | 0.530 |
| P300 | SCH40 | 3.500 | 3.016 | 0.216 | 0.242 | 0.9692 | 0.229 |
| P300 | SCH80 | 3.500 | 2.828 | 0.300 | 0.336 | 1.3092 | 0.318 |
| P300 | 19 | 3.378 | 3.038 | 0.160 | 0.180 | 0.7056 | 0.170 |
| P300 | 15 | 3.463 | 3.038 | 0.203 | 0.223 | 0.8957 | 0.213 |
| P300 | 11.5 | 3.598 | 3.038 | 0.264 | 0.296 | 1.2020 | 0.280 |

Specifications

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Standard Specifications for 4" Petroduct MEAN DENSITY 0.950

| Product Part# | SDR/SCH Rating | Nominal O.D. | Min. I.D. | Min. Wall | Max. Wall | Weight LBS/Ft. | Mean Wall |
|---------------|----------------|--------------|-----------|-----------|-----------|----------------|-----------|
| P400 | 21 | 4.500 | 4.019 | 0.214 | 0.240 | 1.2550 | 0.227 |
| P400 | 17 | 4.500 | 3.907 | 0.265 | 0.297 | 1.5339 | 0.281 |
| P400 | 15.5 | 4.500 | 3.849 | 0.290 | 0.325 | 1.6706 | 0.308 |
| P400 | 13.5 | 4.500 | 3.753 | 0.333 | 0.373 | 1.8941 | 0.353 |
| P400 | 11 | 4.500 | 3.584 | 0.409 | 0.458 | 2.2832 | 0.434 |
| P400 | 9 | 4.500 | 3.380 | 0.500 | 0.560 | 2.7224 | 0.530 |
| P400 | 7 | 4.500 | 3.146 | 0.643 | 0.720 | 3.3650 | 0.681 |
| P400 | SCH40 | 4.500 | 3.970 | 0.237 | 0.265 | 1.3851 | 0.252 |
| P400 | SCH60 | 4.500 | 3.856 | 0.287 | 0.322 | 1.6504 | 0.304 |
| P400 | SCH80 | 4.500 | 3.746 | 0.337 | 0.377 | 1.9137 | 0.357 |

| Product Part# | SDIR Rating | Nominal O.D. | Min. I.D. | Min. Wall | Max. Wall | Weight LBS/Ft. | Mean Wall |
|---------------|-------------|--------------|-----------|-----------|-----------|----------------|-----------|
| P400 | 19 | 4.437 | 3.991 | 0.210 | 0.235 | 1.2162 | 0.223 |
| P400 | 15 | 4.565 | 3.991 | 0.266 | 0.298 | 1.5890 | 0.282 |
| P400 | 11.5 | 4.727 | 3.991 | 0.347 | 0.389 | 2.0758 | 0.368 |

Standard Specifications for 5" Petroduct MEAN DENSITY 0.950

| Product Part# | SDR/SCH Rating | Nominal O.D. | Min. I.D. | Min. Wall | Max. Wall | Weight LBS/Ft. | Mean Wall |
|---------------|----------------|--------------|-----------|-----------|-----------|----------------|-----------|
| P500 | 32.5 | 5.563 | 5.179 | 0.171 | 0.192 | 1.2604 | 0.181 |
| P500 | 21 | 5.563 | 4.969 | 0.265 | 0.297 | 1.9204 | 0.281 |
| P500 | 17 | 5.563 | 4.831 | 0.327 | 0.366 | 2.3418 | 0.347 |
| P500 | 15.5 | 5.563 | 4.759 | 0.359 | 0.402 | 2.5483 | 0.380 |
| P500 | 13.5 | 5.563 | 4.639 | 0.412 | 0.461 | 2.8983 | 0.437 |
| P500 | 11 | 5.563 | 4.430 | 0.506 | 0.567 | 3.4863 | 0.536 |
| P500 | 9 | 5.563 | 4.179 | 0.618 | 0.692 | 4.1594 | 0.655 |
| P500 | 7 | 5.563 | 3.784 | 0.795 | 0.890 | 5.1432 | 0.842 |
| P500 | SCH40 | 5.563 | 4.985 | 0.258 | 0.289 | 1.8750 | 0.274 |
| P500 | SCH80 | 5.563 | 4.723 | 0.375 | 0.420 | 2.6598 | 0.398 |

Standard Specifications for 6" Petroduct MEAN DENSITY 0.950

| Product Part# | SDR/SCH Rating | Nominal O.D. | Min. I.D. | Min. Wall | Max. Wall | Weight LBS/Ft. | Mean Wall |
|---------------|----------------|--------------|-----------|-----------|-----------|----------------|-----------|
| P600 | 32.5 | 6.625 | 6.169 | 0.204 | 0.228 | 1.7912 | 0.216 |
| P600 | 21 | 6.625 | 5.918 | 0.315 | 0.356 | 2.7186 | 0.334 |
| P600 | 17 | 6.625 | 5.752 | 0.390 | 0.437 | 3.3195 | 0.413 |
| P600 | 15.5 | 6.625 | 5.668 | 0.427 | 0.478 | 3.6175 | 0.453 |
| P600 | 13.5 | 6.625 | 5.526 | 0.491 | 0.550 | 4.1075 | 0.520 |
| P600 | 11 | 6.625 | 5.276 | 0.602 | 0.674 | 4.9422 | 0.638 |
| P600 | 9 | 6.625 | 4.977 | 0.736 | 0.824 | 5.8988 | 0.780 |
| P600 | 7 | 6.625 | 4.504 | 0.946 | 1.060 | 7.2959 | 1.003 |
| P600 | SCH40 | 6.625 | 5.997 | 0.280 | 0.314 | 2.4317 | 0.297 |
| P600 | SCH80 | 6.625 | 5.657 | 0.432 | 0.484 | 3.6545 | 0.458 |