

## STANDARD

# SMOOTHWALL

- Manufactured from flexible HDPE, makes gradual bends without special equipment
- Continuous lengths reduce joining costs
- Excellent low temperature properties, allows installation in cold climates
- Outstanding long term cable protection from shifting ground, rock and root impingement
- Provides a permanent pathway, simplifies future cable repairs or replacement



### INSTALLATION TYPES

Existing Conduit  
Plow  
Directional Bore

### SIZE RANGE AVAILABLE

0.5"	2.0"	6.0"
0.75"	2.5"	8.0"
1.0"	3.0"	10.0"
1.25"	4.0"	12.0"
1.5"	5.0"	

### WALL TYPES

SDR-9	SCH-40
SDR-11	SCH-80
SDR-13.5	SIDR-9
SDR-15.5	SIDR-11
SDR-17	

### STANDARD COLORS



## FEATURES

### STANDARD

**FOOTAGE MARKINGS** Sequential foot or meter markings. Custom print streams available.

**SPECIFICATIONS** All Smoothwall conduit dimensions meets or exceeds one or more of the following: ASTM F-2160, ASTM D-3350, ASTM D-2239, ASTM D-3485, NEMA TC-7, UL 651A, UL 1990, Bellcore GR-356.

### OPTIONS

**SILICORE® ULF** (Ultra-Low Friction) is co-extruded inside the HDPE wall creating a slick, permanent, interior lining. With a coefficient of friction 60% lower than standard HDPE conduit without the aid of wet lubricants, SILICORE ULF exhibits no loss in performance over time or in extreme temperature conditions.

**PREINSTALLED TAPE** Factory pre-installed Bull-Line™ Pull Tape with EVEN-LOAD™, ensures extra slack at any access point throughout the reel. Available 500lb–6,000lb tensile strength or locatable.

**UL LISTING AVAILABLE** from ½"–6" for SDR 13.5, SCH 40 and SCH 80.

**EXTERNAL STRIPES** can be added from our standard color offering to facilitate visual identification.

**UV PROTECTANT** available for aerial/lashed placement.



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**SMOOTHWALL (SDR) TECHNICAL SPECIFICATIONS (SIZES 3"-12" NEXT PAGE)**

PIPE SIZE	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	
<b>WALL TYPE</b>	NOM OD (IN)	0.840	1.050	1.315	1.660	1.900	2.375	2.875
	OD TOLERANCE +/-	0.004	0.005	0.007	0.008	0.010	0.012	0.014
	BEND RADIUS (IN) SUPPORTED	8	10	13	17	19	24	29
	BEND RADIUS (IN) UNSUPPORTED	16	20	26	34	38	48	58
<b>SDR-9</b>	MIN. WALL (IN)	0.093	0.117	0.146	0.184	0.211	0.264	0.319
	WALL TOLERANCE +	0.020	0.020	0.020	0.022	0.025	0.032	0.038
	AVG ID (IN)	0.634	0.796	1.003	1.270	1.453	1.815	2.199
	MIN ID (IN)	0.614	0.776	0.983	1.248	1.428	1.783	2.161
	WEIGHT (#/FT)	0.098	0.152	0.234	0.370	0.485	0.759	1.110
	SWPS (LBS)	525	821	1,288	1,052	2,688	4,200	6,155
<b>SDR-11</b>	MIN. WALL (IN)	0.076	0.095	0.120	0.151	0.173	0.216	0.261
	WALL TOLERANCE +	0.020	0.020	0.020	0.020	0.021	0.026	0.031
	AVG ID (IN)	0.668	0.840	1.055	1.338	1.533	1.917	2.322
	MIN ID (IN)	0.648	0.820	1.035	1.318	1.512	1.891	2.291
	WEIGHT (#/FT)	0.084	0.128	0.199	0.312	0.408	0.636	0.930
	SWPS (LBS)	440	687	1,078	1,717	2,249	3,515	5,151
<b>SDR-13.5</b>	MIN. WALL (IN)	0.062	0.078	0.097	0.123	0.141	0.176	0.213
	WALL TOLERANCE +	0.020	0.020	0.020	0.020	0.020	0.021	0.026
	AVG ID (IN)	0.696	0.874	1.101	1.394	1.598	2.002	2.423
	MIN ID (IN)	0.676	0.854	1.081	1.374	1.578	1.981	2.397
	WEIGHT (#/FT)	0.072	0.110	0.167	0.263	0.342	0.528	0.775
	SWPS (LBS)	365	570	894	1,425	1,867	2,917	4,274
<b>SDR-15.5</b>	MIN. WALL (IN)	0.062	0.068	0.084	0.107	0.123	0.153	0.185
	WALL TOLERANCE +	0.018	0.020	0.020	0.020	0.020	0.020	0.022
	AVG ID (IN)	0.698	0.894	1.127	1.426	1.634	2.049	2.483
	MIN ID (IN)	0.680	0.874	1.107	1.406	1.614	2.029	2.461
	WEIGHT (#/FT)	0.071	0.098	0.149	0.234	0.304	0.467	0.680
	SWPS (LBS)			792	1,234	1,607	2,466	3,592
<b>SDR-17</b>	MIN. WALL (IN)		0.062	0.077	0.098	0.112	0.140	0.169
	WALL TOLERANCE +		0.020	0.020	0.020	0.020	0.020	0.020
	AVG ID (IN)		0.906	1.141	1.444	1.656	2.075	2.517
	MIN ID (IN)		0.886	1.121	1.424	1.636	2.055	2.497
	WEIGHT (#/FT)		0.091	0.138	0.217	0.281	0.432	0.625
	SWPS (LBS)		460	722	1,150	1,507	2,355	3,450

(SIZES 3"-12: NEXT PAGE)



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**SMOOTHWALL (SDR) TECHNICAL SPECIFICATIONS (SIZES ½"-2½" PREVIOUS PAGE)**

PIPE SIZE		3"	4"	5"	6"	8"	10"	12"
WALL TYPE	NOM OD (IN)	3.500	4.500	5.563	6.625	8.625	10.750	12.750
	OD TOLERANCE +/-	0.018	0.023	0.028	0.033	0.043	0.054	0.064
	BEND RADIUS (IN) SUPPORTED	39	50	61	73	155	194	230
	BEND RADIUS (IN) UNSUPPORTED	78	100	122	146	233	290	344
SDR-9	MIN. WALL (IN)	0.389	0.500	0.618	0.736	0.958	1.194	1.417
	WALL TOLERANCE +	0.047	0.060	0.074	0.088	0.115	0.143	0.170
	AVG ID (IN)	2.675	3.440	4.253	5.065	6.593	8.219	9.746
	MIN ID (IN)	2.628	3.380	4.179	4.977	6.479	8.076	9.576
	WEIGHT (#/FT)	1.648	2.723	4.161	5.901	10.001	15.534	21.866
	SWPS (LBS)	9,122	15,080	23,045	32,684	55,397	86,057	121,056
SDR-11	MIN. WALL (IN)	0.318	0.409	0.506	0.602	0.784	0.977	1.159
	WALL TOLERANCE +	0.038	0.049	0.061	0.072	0.094	0.117	0.139
	AVG ID (IN)	2.826	3.633	4.490	5.349	6.963	8.679	10.293
	MIN ID (IN)	2.788	3.584	4.429	5.277	6.869	8.562	10.154
	WEIGHT (#/FT)	1.380	2.282	3.490	4.944	8.383	13.019	18.319
	SWPS (LBS)	7,633	12,618	19,284	27,349	46,355	72,010	101,297
SDR-13.5	MIN. WALL (IN)	0.259	0.333	0.412	0.491	0.639	0.796	0.944
	WALL TOLERANCE +	0.031	0.040	0.049	0.059	0.077	0.096	0.113
	AVG ID (IN)	2.951	3.794	4.690	5.584	7.270	9.062	10.749
	MIN ID (IN)	2.920	3.754	4.641	5.525	7.193	8.966	10.636
	WEIGHT (#/FT)	1.146	1.895	2.896	4.112	6.969	10.821	15.214
	SWPS (LBS)	6,335	10,472	16,004	22,697	38,470	59,762	84,067
SDR-15.5	MIN. WALL (IN)	0.226	0.290	0.359	0.427			
	WALL TOLERANCE +	0.027	0.035	0.043	0.051			
	AVG ID (IN)	3.021	3.885	4.802	5.720			
	MIN ID (IN)	2.994	3.850	4.759	5.669			
	WEIGHT (#/FT)	1.011	1.669	2.552	3.615			
	SWPS (LBS)	5,342	8,814	13,483	19,123			
SDR-17	MIN. WALL (IN)	0.206	0.265	0.327	0.390			
	WALL TOLERANCE +	0.025	0.032	0.039	0.047			
	AVG ID (IN)	3.063	3.938	4.870	5.798			
	MIN ID (IN)	3.038	3.906	4.831	5.751			
	WEIGHT (#/FT)	0.928	1.534	2.339	3.324			
	SWPS (LBS)	5,114	8,453	12,918	18,321			

← (SIZES ½"-2½" PREVIOUS PAGE)



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**SMOOTHWALL (SCH) TECHNICAL SPECIFICATIONS (SIZES 3"-12" NEXT PAGE)**

PIPE SIZE	½"	¾"	1"	1¼"	1½"	2"	2 ½"	
<b>WALL TYPE</b>	NOM OD (IN)	0.840	1.050	1.315	1.660	1.900	2.375	2.875
	OD TOLERANCE +/-	0.004	0.005	0.007	0.008	0.010	0.012	0.014
	BEND RADIUS (IN) SUPPORTED	8	10	13	17	19	24	29
	BEND RADIUS (IN) UNSUPPORTED	16	20	26	34	38	48	58
<b>SCH-40</b>	MIN. WALL (IN)	0.109	0.113	0.133	0.140	0.145	0.154	0.203
	WALL TOLERANCE +	0.020	0.020	0.020	0.020	0.020	0.020	0.024
	MIN ID (IN)	0.582	0.784	1.009	1.340	1.570	2.027	2.421
	AVG ID (IN)	0.602	0.804	1.029	1.360	1.590	2.047	2.445
	WEIGHT (#/FT)	0.111	0.148	0.217	0.293	0.350	0.469	0.740
	SWPS (LBS)	601	798	1,340	1,604	1,919	2,579	4,090
<b>SCH-80</b>	MIN. WALL (IN)	0.147	0.154	0.179	0.191	0.200	0.218	0.276
	WALL TOLERANCE +	0.020	0.020	0.021	0.023	0.024	0.026	0.033
	MIN ID (IN)	0.506	0.702	0.915	1.232	1.452	1.887	2.257
	AVG ID (IN)	0.526	0.722	0.936	1.255	1.476	1.913	2.290
	WEIGHT (#/FT)	0.139	0.188	0.276	0.382	0.463	0.641	0.978
	SWPS (LBS)	768	1,040	1,533	2,116	2,564	2,545	5,409

**SMOOTHWALL SDR & SCHEDULE NOTES**

- Bend Radius*

½" through 2 ½"	Supported Bend Radius 10 times the OD	Unsupported Bend Radius 20 times the OD
3" through 6"	Supported Bend Radius 11 times the OD	Unsupported Bend Radius 22 times the OD
8" through 16"	Supported Bend Radius 18 times the OD	Unsupported Bend Radius 27 times the OD
- During cable placement, large sweeping bends are recommended over tighter bends. Pre-formed sweeps are recommended for conduit sizes 8" through 16" diameters.*
- SWPS (Safe Working Pull Strength) is calculated using a 25% safety factor with the minimum resin tensile strength of 3,000 psi, the average OD and average wall thickness.*

(SIZES 3"-12: NEXT PAGE)



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**SMOOTHWALL (SCH) TECHNICAL SPECIFICATIONS (SIZES 1/2"-2 1/2" PREVIOUS PAGE)**

PIPE SIZE		3"	4"	5"	6"	8"	10"	12"
WALL TYPE	NOM OD (IN)	3.500	4.500	5.563	6.625	8.625	10.750	12.750
	OD TOLERANCE +/-	0.018	0.023	0.028	0.033	0.043	0.054	0.064
	BEND RADIUS (IN) SUPPORTED	39	50	61	73	155	194	230
	BEND RADIUS (IN) UNSUPPORTED	78	100	122	146	233	290	344
SCH-40	MIN. WALL (IN)	0.216	0.237	0.258	0.280	0.322	0.365	0.406
	WALL TOLERANCE +	0.026	0.028	0.031	0.034	0.039	0.044	0.049
	MIN ID (IN)	3.016	3.970	4.985	5.997	7.903	9.932	11.840
	AVG ID (IN)	3.042	3.998	5.016	6.031	7.942	9.976	11.889
	WEIGHT (#/FT)	0.969	1.380	1.872	2.432	3.661	5.215	6.846
	SWPS (LBS)	5,348	7,618	10,320	13,395	20,158	28,580	
SCH-80	MIN. WALL (IN)	0.300	0.337	0.375	0.432			
	WALL TOLERANCE +	0.036	0.040	0.045	0.052			
	MIN ID (IN)	2.828	3.746	4.723	5.657			
	AVG ID (IN)	2.864	3.786	4.768	5.709			
	WEIGHT (#/FT)	1.310	1.914	2.657	3.656			
	SWPS (LBS)	7,238	10,578	14,669	20,172			

← (SIZES 1/2"-2 1/2" PREVIOUS PAGE)



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## SMOOTHWALL (SIDR) TECHNICAL SPECIFICATIONS

PIPE SIZE	½"	¾"	1"	1 ¼"	1 ½"	2"	2 ½"	3"	4"	6"	
WALL TYPE	MIN ID (IN)	0.622	0.824	1.049	1.380	1.610	2.067	2.469	3.068	4.026	6.065
	ID TOLERANCE +	0.010	0.010	0.010	0.010	0.015	0.015	0.015	0.015	0.020	0.020
	ID TOLERANCE -	0.010	0.015	0.020	0.020	0.020	0.020	0.020	0.030	0.020	0.035
	BEND RADIUS (IN) SUPPORTED	8	10	13	17	19	24	29	39	50	73
	BEND RADIUS (IN) UNSUPPORTED	16	20	26	34	38	48	58	78	100	146
SIDR-9	MIN. WALL (IN)	0.069	0.092	0.117	0.153	0.230					
	WALL TOLERANCE +	0.020	0.020	0.020	0.020	0.028					
	AVG OD (IN)	0.780	1.026	1.298	1.701	2.553					
	WEIGHT (#/FT)	0.072	0.122	0.192	0.324	0.729					
	SWPS (LBS)	445	760	1,471	1,652	4,535					
SIDR-11.5	MIN. WALL (IN)	0.060	0.072	0.091	0.120	0.140	0.180	0.215	0.267	0.350	0.527
	WALL TOLERANCE +	0.020	0.020	0.020	0.020	0.020	0.022	0.026	0.032	0.042	0.063
	AVG OD (IN)	0.762	0.986	1.246	1.635	1.908	2.447	2.919	3.627	4.768	7.175
	WEIGHT (#/FT)	0.063	0.096	0.150	0.253	0.341	0.558	0.792	1.225	2.111	4.782
	SWPS (LBS)	390	597	891	1,549	2,123	3,468	4,934	7,627	13,119	29,750

### SMOOTHWALL SIDR NOTES:

- Bend Radius ½" through 2 ½"

Supported Bend Radius 10 times the OD      Unsupported Bend Radius 20 times the OD 3" through 6"

Supported Bend Radius 11 times the OD      Unsupported Bend Radius 22 times the OD 8" through 16"

Supported Bend Radius 18 times the OD      Unsupported Bend Radius 27 times the OD
- During cable placement, large sweeping bends are recommended over tighter bends.  
Pre-formed sweeps are recommended for conduit sizes 8" through 16" diameters.
- SWPS (Safe Working Pull Strength) is calculated using a 25% safety factor with the minimum resin tensile strength of 3,000 psi, the average OD and average wall thickness.
- Internal or external ribs are in addition to the average wall and for determining OD and ID dimensions.  
The average rib height to be added is 0.020"
- Add 0.016 #/ft for ribbed products 1 1/2" and less. For 2" and larger, add 0.025 #/ft



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