

SMOOTHWALL SPECS

PIPE SIZE		½"	¾"	1"	1 ¼"	1 ½"	2"	2 ½"	3"	4"	5"	6"	8"	10"	12"
WALL TYPE	Nom OD (in)	0.840	1.050	1.315	1.660	1.900	2.375	2.875	3.500	4.500	5.563	6.625	8.625	10.750	12.750
	OD Tolerance +/-	0.004	0.005	0.007	0.008	0.010	0.012	0.014	0.018	0.023	0.028	0.033	0.043	0.054	0.064
	Bend Radius (in) – Supported	8	10	13	17	19	24	29	39	50	61	73	155	194	230
	Bend Radius (in) – Unsupported	16	20	26	34	38	48	58	78	100	122	146	233	290	344
SDR-9	Min. Wall (in)	0.093	0.117	0.146	0.184	0.211	0.264	0.319	0.389	0.500	0.618	0.736	0.958	1.194	1.417
	Wall Tolerance +	0.020	0.020	0.020	0.022	0.025	0.032	0.038	0.047	0.060	0.074	0.088	0.115	0.143	0.170
	Avg ID (in)	0.634	0.796	1.003	1.270	1.453	1.815	2.199	2.675	3.440	4.253	5.065	6.593	8.219	9.746
	Weight (#/ft)	0.098	0.152	0.234	0.370	0.485	0.759	1.110	1.648	2.723	4.161	5.901	10.001	15.534	21.866
	Safe Working Load	525	821	1,288	2,052	2,688	4,200	6,155	9,122	15,080	23,045	32,684	55,397	86,057	121,056
SDR-11	Min. Wall (in)	0.076	0.095	0.120	0.151	0.173	0.216	0.261	0.318	0.409	0.506	0.602	0.784	0.977	1.159
	Wall Tolerance +	0.020	0.020	0.020	0.020	0.021	0.026	0.031	0.038	0.049	0.061	0.072	0.094	0.117	0.139
	Avg ID (in)	0.668	0.840	1.055	1.338	1.533	1.917	2.322	2.826	3.633	4.490	5.349	6.963	8.679	10.293
	Weight (#/ft)	0.084	0.128	0.199	0.312	0.408	0.636	0.930	1.380	2.282	3.490	4.944	8.383	13.019	18.319
	Safe Working Load	440	687	1,078	1,717	2,249	3,515	5,151	7,633	12,618	19,284	27,349	46,355	72,010	101,297
SDR-13.5	Min. Wall (in)	0.062	0.078	0.097	0.123	0.141	0.176	0.213	0.259	0.333	0.412	0.491	0.639	0.796	0.944
	Wall Tolerance +	0.020	0.020	0.020	0.020	0.020	0.021	0.026	0.031	0.040	0.049	0.059	0.077	0.096	0.113
	Avg ID (in)	0.696	0.874	1.101	1.394	1.598	2.002	2.423	2.951	3.794	4.690	5.584	7.270	9.062	10.749
	Weight (#/ft)	0.072	0.110	0.167	0.263	0.342	0.528	0.775	1.146	1.895	2.896	4.112	6.969	10.821	15.214
	Safe Working Load	365	570	894	1,425	1,867	2,917	4,274	6,335	10,472	16,004	22,697	38,470	59,762	84,067
SDR-15.5	Min. Wall (in)	0.062	0.068	0.084	0.107	0.123	0.153	0.185	0.226	0.290	0.359	0.427			
	Wall Tolerance +	0.018	0.020	0.020	0.020	0.020	0.020	0.022	0.027	0.035	0.043	0.051			
	Avg ID (in)	0.698	0.894	1.127	1.426	1.634	2.049	2.483	3.021	3.885	4.802	5.720			
	Weight (#/ft)	0.071	0.098	0.149	0.234	0.304	0.467	0.680	1.011	1.669	2.552	3.615			
	Safe Working Load			792	1,234	1,607	2,466	3,592	5,342	8,814	13,483	19,123			
SDR-17	Min. Wall (in)		0.062	0.077	0.098	0.112	0.140	0.169	0.206	0.265	0.327	0.390			
	Wall Tolerance +		0.020	0.020	0.020	0.020	0.020	0.020	0.025	0.032	0.039	0.047			
	Avg ID (in)		0.906	1.141	1.444	1.656	2.075	2.517	3.063	3.938	4.870	5.798			
	Weight (#/ft)		0.091	0.138	0.217	0.281	0.432	0.625	0.928	1.534	2.339	3.324			
	Safe Working Load		460	722	1,150	1,507	2,355	3,450	5,114	8,453	12,918	18,321			

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WALL TYPE	Nom OD (in)	0.840	1.050	1.315	1.660	1.900	2.375	2.875	3.500	4.500	5.563	6.625	8.625	10.750	12.750
	OD Tolerance +/-	0.004	0.005	0.007	0.008	0.010	0.012	0.014	0.018	0.023	0.028	0.033	0.043	0.054	0.064
	Bend Radius (in) – Supported	8	10	13	17	19	24	29	39	50	61	73	155	194	230
	Bend Radius (in) – Unsupported	16	20	26	34	38	48	58	78	100	122	146	233	290	344
SCH-40	Min. Wall (in)	0.109	0.113	0.133	0.140	0.145	0.154	0.203	0.216	0.237	0.258	0.280	0.322	0.365	0.406
	Wall Tolerance +	0.020	0.020	0.020	0.020	0.020	0.020	0.024	0.026	0.028	0.031	0.034	0.039	0.044	0.049
	Avg ID (in)	0.602	0.804	1.029	1.360	1.590	2.047	2.445	3.042	3.998	5.016	6.031	7.942	9.976	11.889
	Weight (#/ft)	0.111	0.148	0.217	0.293	0.350	0.469	0.740	0.969	1.380	1.872	2.432	3.661	5.215	6.846
	Safe Working Load	601	798	1,340	1,604	1,919	2,579	4,090	5,348	7,618	10,320	13,395	20,158	28,580	
SCH-80	Min. Wall (in)	0.147	0.154	0.179	0.191	0.200	0.218	0.276	0.300	0.337	0.375	0.432			
	Wall Tolerance +	0.020	0.020	0.021	0.023	0.024	0.026	0.033	0.036	0.040	0.045	0.052			
	Avg ID (in)	0.526	0.722	0.936	1.255	1.476	1.913	2.290	2.864	3.786	4.768	5.709			
	Weight (#/ft)	0.139	0.188	0.276	0.382	0.463	0.641	0.978	1.310	1.914	2.657	3.656			
	Safe Working Load	768	1,040	1,533	2,116	2,564	3,545	5,409	7,238	10,578	14,669	20,172			

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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.
- "Safe Working Load" is calculated using a 20% safety factor with the minimum resin tensile strength of 3,000 psi, the average OD and minimum wall thickness.
- Product Specifications
 All Smoothwall conduit dimensions meets or exceeds one or more of the following specifications:
 ASTM F-2160, ASTM D-3035, ASTM D-2239, ASTM D-3485, NEMA TC-7, UL 651, UL 1990, Bellcore GR-356
- 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 ½" and less. For 2" and larger, add 0.025 #/ft

SMOOTHWALL SPECS

	PIPE SIZE	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"
WALL TYPE	Nom ID (in)	0.622	0.824	1.049	1.380	1.610	2.067	2.469	3.068	4.005	6.065
	ID Tolerance +	0.010	0.010	0.010	0.010	0.015	0.015	0.015	0.015	0.015	0.020
	ID Tolerance –	0.010	0.015	0.020	0.020	0.020	0.020	0.025	0.030	0.035	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				
	Safe Working Load	445	760	1471	1652	–	4535				
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	0.025	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
	Safe Working Load	390	597	891	1549	2123	3468	4934	7627	13119	29750

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