



Sales Tolerances for AP Armaflex® White*

1/2" Walls												
Item	Nom Pipe Size	Pipe OD	Insulation ID			Insulation Wall			Calculated OD			R Value
			Min	Targ	Max	Min	Targ	Max	Min	Targ	Max	
IPWTT03812	1/4" Copper	0.375	0.420	0.460	0.500	0.360	0.423	0.485	1.140	1.305	1.470	3.3
IPWTT01212	3/8" Copper	0.500	0.560	0.600	0.640	0.380	0.443	0.505	1.320	1.485	1.650	3.3
IPWTT05812	1/2" Copper	0.625	0.710	0.750	0.790	0.400	0.463	0.525	1.510	1.675	1.840	3.4
IPWTT03412	5/8" Copper	0.750	0.810	0.860	0.910	0.420	0.483	0.545	1.650	1.825	2.000	3.3
IPWTT07812	3/4" Copper	0.875	0.940	0.995	1.050	0.430	0.493	0.555	1.800	1.980	2.160	3.3
IPWTT11812	1" Copper	1.125	1.200	1.255	1.310	0.450	0.513	0.575	2.100	2.280	2.460	3.3
IPWTT13812	1-1/4" Copper	1.375	1.450	1.510	1.570	0.460	0.523	0.585	2.370	2.555	2.740	3.2
IPWTT15812	1-1/2" Copper	1.625	1.710	1.770	1.830	0.470	0.533	0.595	2.650	2.835	3.020	3.2
IPWTT11012	1 1/2" IPS	1.900	1.970	2.030	2.090	0.480	0.543	0.605	2.930	3.115	3.300	3.1
IPWTT21812	2" Copper	2.125	2.220	2.280	2.340	0.490	0.553	0.615	3.200	3.385	3.570	3.2
IPWTT20012	2" IPS	2.375	2.540	2.615	2.690	0.500	0.563	0.625	3.540	3.740	3.940	3.5
IPWTT25812	2-1/2" Copper	2.625	2.790	2.865	2.940	0.500	0.563	0.625	3.790	3.990	4.190	3.4
IPWTT21012	2-1/2" IPS	2.875	3.050	3.125	3.200	0.500	0.563	0.625	4.050	4.250	4.450	3.4
IPWTT31812	3" Copper	3.125	3.300	3.375	3.450	0.500	0.563	0.625	4.300	4.500	4.700	3.3
3/4" Walls												
Item	Nom Pipe Size	Pipe OD	Insulation ID			Insulation Wall			Calculated OD			R Value
			Min	Targ	Max	Min	Targ	Max	Min	Targ	Max	
IPWTT03834	1/4" Copper	0.375	0.420	0.460	0.500	0.620	0.683	0.745	1.660	1.825	1.990	5.9
IPWTT01234	3/8" Copper	0.500	0.570	0.610	0.650	0.620	0.683	0.745	1.810	1.975	2.140	5.5
IPWTT05834	1/2" Copper	0.625	0.720	0.760	0.800	0.660	0.723	0.785	2.040	2.205	2.370	5.7
IPWTT03434	5/8" Copper	0.750	0.830	0.880	0.930	0.680	0.743	0.805	2.190	2.365	2.540	5.5
IPWTT07834	3/4" Copper	0.875	0.970	1.020	1.070	0.700	0.763	0.825	2.370	2.545	2.720	5.5
IPWTT11834	1" Copper	1.125	1.230	1.280	1.330	0.740	0.803	0.865	2.710	2.885	3.060	5.5
IPWTT13834	1-1/4" Copper	1.375	1.490	1.540	1.590	0.750	0.813	0.875	2.990	3.165	3.340	5.4
IPWTT15834	1-1/2" Copper	1.625	1.745	1.800	1.855	0.750	0.813	0.875	3.245	3.425	3.605	5.2
IPWTT11034	1 1/2" IPS	1.900	2.005	2.060	2.115	0.750	0.813	0.875	3.505	3.685	3.865	5.0
IPWTT21834	2" Copper	2.125	2.255	2.310	2.365	0.750	0.813	0.875	3.755	3.935	4.115	4.9
IPWTT20034	2" IPS	2.375	2.505	2.580	2.655	0.750	0.813	0.875	4.005	4.205	4.405	4.9
IPWTT25834	2-1/2" Copper	2.625	2.755	2.830	2.905	0.750	0.813	0.875	4.255	4.455	4.655	4.8
IPWTT21034	2-1/2" IPS	2.875	3.015	3.090	3.165	0.750	0.813	0.875	4.515	4.715	4.915	4.8
IPWTT31834	3" Copper	3.125	3.265	3.340	3.415	0.750	0.813	0.875	4.765	4.965	5.165	4.7
IPWTT30034	3" IPS	3.500	3.645	3.720	3.795	0.750	0.813	0.875	5.145	5.345	5.545	4.6
IPWTT35834	3-1/2" Copper	3.625	3.775	3.850	3.925	0.750	0.813	0.875	5.275	5.475	5.675	4.6
IPWTT41834R	4" Copper	4.125	4.285	4.360	4.435	0.750	0.813	0.875	5.785	5.985	6.185	4.5
1" Walls												
Item	Nom Pipe Size	Pipe OD	Insulation ID			Insulation Wall			Calculated OD			R Value
			Min	Targ	Max	Min	Targ	Max	Min	Targ	Max	
IPWTT03810	1/4" Copper	0.375	0.420	0.460	0.500	0.975	1.068	1.160	2.370	2.595	2.820	10.2
IPWTT01210	3/8" Copper	0.500	0.560	0.600	0.640	0.975	1.068	1.160	2.510	2.735	2.960	9.5
IPWTT05810	1/2" Copper	0.625	0.720	0.760	0.800	0.975	1.068	1.160	2.670	2.895	3.120	9.1
IPWTT03410	5/8" Copper	0.750	0.830	0.880	0.930	0.975	1.068	1.160	2.780	3.015	3.250	8.6
IPWTT07810	3/4" Copper	0.875	0.970	1.020	1.070	0.975	1.068	1.160	2.920	3.155	3.390	8.3
IPWTT11810	1" Copper	1.125	1.230	1.280	1.330	0.975	1.068	1.160	3.180	3.415	3.650	7.7
IPWTT13810	1-1/4" Copper	1.375	1.490	1.540	1.590	0.975	1.068	1.160	3.440	3.675	3.910	7.4
IPWTT15810	1-1/2" Copper	1.625	1.745	1.800	1.855	1.000	1.093	1.185	3.745	3.985	4.225	7.3
IPWTT11010	1 1/2" IPS	1.900	2.005	2.060	2.115	1.000	1.093	1.185	4.005	4.245	4.485	7.0
IPWTT21810	2" Copper	2.125	2.255	2.310	2.365	1.000	1.093	1.185	4.255	4.495	4.735	6.9
IPWTT25810	2-1/2" Copper	2.625	2.755	2.830	2.905	1.000	1.093	1.185	4.755	5.015	5.275	6.6
IPWTT31810	3" Copper	3.125	3.265	3.340	3.415	1.000	1.093	1.185	5.265	5.525	5.785	6.4
IPWTT35810	3-1/2" Copper	3.625	3.775	3.850	3.925	1.000	1.093	1.185	5.775	6.035	6.295	6.3

*These specifications are based on the measurement methods employed by Armacell. Other methods may not result in the same values and cannot be used to determine if the product is within the given tolerance.

IPWTT41810R	4" Copper	4.125	4.285	4.360	4.435	1.000	1.093	1.185	6.285	6.545	6.805	6.2
1-1/2" Walls												
Item	Nom Pipe Size	Pipe OD	Insulation ID			Insulation Wall			Calculated OD			R Value
			Min	Targ	Max	Min	Targ	Max	Min	Targ	Max	
IPWTT03815	1/4" Copper	0.375	0.420	0.460	0.500	1.408	1.500	1.592	3.236	3.460	3.684	13.7
IPWTT01215	3/8" Copper	0.500	0.560	0.600	0.640	1.408	1.500	1.592	3.376	3.600	3.824	12.7
IPWTT05815	1/2" Copper	0.625	0.720	0.760	0.800	1.408	1.500	1.592	3.536	3.760	3.984	12.0
IPWTT03415	5/8" Copper	0.750	0.830	0.880	0.930	1.408	1.500	1.592	3.646	3.880	4.114	11.4
IPWTT07815	3/4" Copper	0.875	0.970	1.020	1.070	1.408	1.500	1.592	3.786	4.020	4.254	10.9
IPWTT11815	1" Copper	1.125	1.230	1.280	1.330	1.408	1.500	1.592	4.046	4.280	4.514	10.2
IPWTT13815	1-1/4" Copper	1.375	1.490	1.540	1.590	1.408	1.500	1.592	4.306	4.540	4.774	9.7
IPWTT15815	1-1/2" Copper	1.625	1.745	1.800	1.855	1.408	1.500	1.592	4.561	4.800	5.039	9.3
IPWTT11015	1 1/2" IPS	1.900	2.005	2.060	2.115	1.408	1.500	1.592	4.821	5.060	5.299	8.9
IPWTT21815	2" Copper	2.125	2.255	2.310	2.365	1.408	1.500	1.592	5.071	5.310	5.549	8.7
IPWTT20015	2" IPS	2.375	2.505	2.580	2.655	1.408	1.500	1.592	5.321	5.580	5.839	8.5
IPWTT25815	2-1/2" Copper	2.625	2.755	2.830	2.905	1.408	1.500	1.592	5.571	5.830	6.089	8.3
IPWTT21015	2-1/2" IPS	2.875	3.015	3.060	3.165	1.408	1.500	1.592	5.831	6.060	6.349	8.1
IPWTT31815	3" Copper	3.125	3.265	3.340	3.415	1.408	1.500	1.592	6.081	6.340	6.599	8.0
IPWTT30015	3" IPS	3.500	3.645	3.720	3.795	1.408	1.500	1.592	6.461	6.720	6.979	7.8
IPWTT35815	3-1/2" Copper	3.625	3.775	3.850	3.925	1.408	1.500	1.592	6.591	6.850	7.109	7.8
IPWTT41815R	4" Copper	4.125	4.285	4.360	4.435	1.408	1.500	1.592	7.101	7.360	7.619	7.6
IPWTT40015R	4" IPS	4.500	4.645	4.720	4.795	1.408	1.500	1.592	7.461	7.720	7.979	7.4
IPWTT50015R	5: IPS	5.563	5.715	5.790	5.865	1.408	1.500	1.592	8.531	8.790	9.049	7.2
IPWTT60015R	6" IPS	6.625	6.775	6.850	6.925	1.408	1.500	1.592	9.591	9.850	10.109	7.0
2" Walls												
Item	Nom Pipe Size	Pipe OD	Insulation ID			Insulation Wall			Calculated OD			R Value
			Min	Targ	Max	Min	Targ	Max	Min	Targ	Max	
IPWTT03820	1/4" Copper	0.375	0.420	0.460	0.500	1.900	2.000	2.100	4.220	4.460	4.700	19.7
IPWTT01220	3/8" Copper	0.500	0.560	0.600	0.640	1.900	2.000	2.100	4.360	4.600	4.840	18.2
IPWTT05820	1/2" Copper	0.625	0.720	0.760	0.800	1.900	2.000	2.100	4.520	4.760	5.000	17.3
IPWTT03420	5/8" Copper	0.750	0.830	0.880	0.930	1.900	2.000	2.100	4.630	4.880	5.130	16.3
IPWTT07820	3/4" Copper	0.875	0.970	1.020	1.070	1.900	2.000	2.100	4.770	5.020	5.270	15.7
IPWTT11820	1" Copper	1.125	1.230	1.280	1.330	1.900	2.000	2.100	5.030	5.280	5.530	14.6
IPWTT13820	1-1/4" Copper	1.375	1.490	1.540	1.590	1.900	2.000	2.100	5.290	5.540	5.790	13.8
IPWTT15820	1-1/2" Copper	1.625	1.745	1.800	1.855	1.900	2.000	2.100	5.545	5.800	6.055	13.2
IPWTT21820	2" Copper	2.125	2.255	2.310	2.365	1.900	2.000	2.100	6.055	6.310	6.565	12.3
IPWTT20020	2" IPS	2.375	2.505	2.580	2.655	1.900	2.000	2.100	6.305	6.580	6.855	12.0
IPWTT25820	2-1/2" Copper	2.625	2.755	2.830	2.905	1.900	2.000	2.100	6.555	6.830	7.105	11.7
IPWTT31820	3" Copper	3.125	3.265	3.340	3.415	1.900	2.000	2.100	7.065	7.340	7.615	11.2
IPWTT30020	3" IPS	3.500	3.645	3.720	3.795	1.900	2.000	2.100	7.445	7.720	7.995	10.9
IPWTT35820	3-1/2" Copper	3.625	3.775	3.850	3.925	1.900	2.000	2.100	7.575	7.850	8.125	10.8
IPWTT41820R	4" Copper	4.125	4.285	4.360	4.435	1.900	2.000	2.100	8.085	8.360	8.635	10.5
IPWTT40020R	4" IPS	4.500	4.645	4.720	4.795	1.900	2.000	2.100	8.445	8.720	8.995	10.3
IPWTT50020R	5" IPS	5.563	5.715	5.790	5.865	1.900	2.000	2.100	9.515	9.790	10.065	9.9
IPWTT60020R	6" IPS	6.625	6.775	6.850	6.925	1.900	2.000	2.100	10.575	10.850	11.125	9.6

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