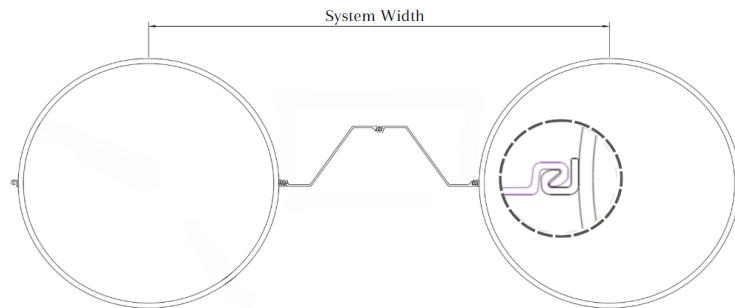


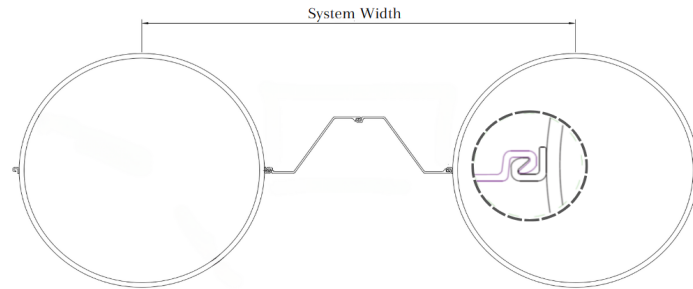
Pipe Combi-wall Systems



Pipe Combi-Wall with Hot Rolled Z Series Sheet Piles

Combi-Wall System	Sheet Pile Section (Pair)	PROPERTIES OF PIPE PILE			PROPERTIES OF COMBINED WALL							COATING	
		Outside Diameter	Wall Thickness	Pipe Weight	System Width	System Inertia	Section Modulus	Weight (Sheet Pile/Pipe Pile Length)			Cross Sectional Area	Both Sides of Wall	
	in (mm)	in (mm)	in (mm)	lb/ft (kg/m)	in (mm)	in ⁴ /ft (cm ⁴ /m)	in ³ /ft (cm ³ /m)	100% lb/ft ² (kg/m ²)	80% lb/ft ² (kg/m ²)	60% lb/ft ² (kg/m ²)	in ² /ft (cm ² /m)	ft ² /ft (m ² /m)	
PZ30/Z14-770	Z14-770	30	0.312	99.03	92.9	525	35.3	28.40	25.20	22.10	8.3	20.98	
		762.0	7.92	147.4	2,360.0	73,364	1,899	138.70	123.30	27.30	176.2	6.40	
PZ30/Z19-700	Z19-700	30	0.375	118.77	87.4	708	47.2	34.10	29.48	27.68	10.2	20.06	
		762.0	9.52	176.8	2,220.0	96,633	2,536	166.60	143.94	135.13	212.2	6.12	
PZ36/Z14-770	Z14-770	36	0.375	142.83	99.0	912	50.7	32.00	29.10	26.10	9.4	22.55	
		914.4	9.52	212.6	2,514.0	124,510	2,723	156.20	1,419.00	1,275.00	199.0	6.87	
PZ36/Z19-700	Z19-700	36	0.500	189.75	93.5	1,295	71.9	40.30	37.10	33.90	11.8	22.71	
		914.4	12.70	282.4	2,374.0	176,184	3,866	196.80	181.20	165.60	2,506.0	6.92	
PZ42/Z14-770	Z14-770	42	0.438	194.62	104.9	1,510	72	36.10	35.11	30.50	10.3	24.13	
		1066.8	11.13	289.6	2,664.8	206,230	3,863	17.00	176.20	149.20	219.0	7.35.00	
PZ42/Z19-700	Z19-700	42	0.500	221.84	99.5	1,850	88	41.70	38.70	35.70	12.3	24.28	
		1066.8	12.70	330.1	2,527.0	252,623	4,736	203.80	189.20	174.50	259.6	7.85	
PZ42/Z26-700	Z26-700	42	0.625	276.47	99.4	2,342	112	51.56	47.92	44.29	15.1	25.30	
		1066.8	15.87	411.4	2,524.8	319,792	5,995	251.76	234.00	216.24	320.7	7.69	
PZ42/Z38-700	Z38-700	42	0.750	330.76	99.4	2,882	137	61.90	57.51	53.11	18.2	25.44	
		1066.8	19.05	492.2	2,524.8	393,502	7,377	302.26	280.80	259.34	385.0	7.75	
PZ48/Z14-770	Z14-770	48	0.500	253.92	111.0	2,369	99	40.50	37.90	35.30	11.9	25.69	
		1219.2	12.70	377.9	2,819.0	323,472	5,306	198.00	185.20	172.40	252.7	7.83	
PZ48/Z19-700	Z19-700	48	0.625	316.52	105.5	3,117	130	50.10	47.30	44.50	14.7	25.85	
		1219.2	15.90	471.1	2,679.0	425,697	5,983	244.80	231.00	217.20	311.9	7.88	
PZ48/Z26-700	Z26-700	48	0.750	378.83	105.4	3,753	157	59.60	56.45	53.30	15.6	25.18	
		1219.2	19.05	563.8	2,677.2	514,000	8,433	291.10	275.70	260.30	330.8	7.67	
PZ48/Z38-700	Z38-700	48	0.875	440.80	105.4	4,455	186	71.10	66.90	62.70	20.9	27.01	
		1219.2	22.20	656.0	2,677.2	608,417	9,981	347.10	326.70	306.20	442.2	8.23	
PZ54/Z14-770	Z14-770	54	0.563	321.61	117.0	3,549	132	45.40	42.90	40.40	13.3	27.27	
		1371.6	14.30	478.6	2,971.8	484,705	7,068	221.70	209.60	197.50	282.4	8.31	
PZ54/Z19-700	Z19-700	54	0.625	356.61	11.5	4,158	154	51.80	49.10	46.40	15.2	27.42	
		1371.6	15.90	530.7	2,832.1	456,781	8,279	252.70	239.70	226.60	321.9	8.36	
PZ54/Z26-700	Z26-700	54	0.750	426.96	111.5	4,989	185	61.60	58.60	55.60	18.1	28.32	
		1371.6	19.05	635.4	2,832.1	683,437	9,966	300.70	286.15	271.60	383.0	8.64	
PZ54/Z38-700	Z38-700	54	0.875	496.92	11.5	5,891	218	73.30	69.30	65.40	21.5	28.58	
		1371.6	22.20	739.5	2,832.0	804,396	11,731	3,579.00	338.50	319.20	458.0	8.81	

Pipe Combi-wall Systems



Pipe Combi-Wall with Hot Rolled Z Series Sheet Piles

Combi-Wall System	Sheet Pile Section (Pair)	PROPERTIES OF PIPE PILE			PROPERTIES OF COMBINED WALL							COATING	
		Outside Diameter	Wall Thickness	Pipe Weight	System Width	System Inertia	Section Modulus	WEIGHT			Cross Sectional Area	Both Sides of Wall	
								(Sheet Pile Length/Pipe Length)	100% lb/ft ² (kg/m ²)	80% lb/ft ² (kg/m ²)			60% lb/ft ² (kg/m ²)
in (mm)	in (mm)	in (mm)	lb/ft (kg/m)	in (mm)	in ⁴ /ft (cm ⁴ /m)	in ³ /ft (cm ³ /m)	100% lb/ft ² (kg/m ²)	80% lb/ft ² (kg/m ²)	60% lb/ft ² (kg/m ²)	in ² /ft (cm ² /m)	ft ² /ft (m ² /m)		
PZ60/Z14-770	Z14-770	60	0.625	396.74	123.1	5,082	170	50.50	48.20	45.80	14.9	28.84	
		1524.0	15.87	590.4	3,124.0	696,111	9,136	246.70	235.10	223.60	314.2	8.79	
PZ60/Z19-700	Z19-700	60	0.750	475.04	117.4	6,391	213	61.20	58.70	56.10	18.0	28.99	
		1524.0	19.05	707.0	2,982.0	872,780	11,454	298.90	286.50	274.10	380.7	8.84	
PZ60/Z26-700	Z26-700	60	0.875	553.04	117.4	7,438	249	71.30	68.50	65.70	21.0	29.92	
		1524.0	22.22	823.0	2,982.0	1,018,949	13,372	346.20	333.40	320.60	443.6	9.12	
PZ60/Z38-700	Z38-700	60	1.000	630.71	117.4	8,567	286	83.20	79.50	75.70	24.5	30.15	
		1524.0	25.40	938.6	2,982.0	1,169,817	15,532	406.40	388.00	369.60	517.7	9.19	
PZ66/Z14-770	Z14-770	66	0.688	480.40	129.0	7,084	215	56.00	53.70	51.40	16.4	30.41	
		1676.4	17.48	714.9	3,276.0	9,677,362	11,541	273.20	262.20	251.20	348.0	9.27	
PZ66/Z19-700	Z19-700	66	0.750	523.14	123.4	8,079	244	62.90	60.50	58.10	18.5	30.56	
		1676.4	19.05	778.5	3,134.4	1,103,222	13,162	307.20	295.40	283.60	391.3	9.32	
PZ66/Z26-700	Z26-700	66	0.875	609.16	123.4	9,391	285	73.30	70.60	67.90	21.0	29.92	
		1676.4	22.20	906.6	3,134.4	1,286,499	15,348	357.90	345.80	331.70	443.6	9.14	
PZ66/Z38-700	Z38-700	66	1.000	694.00	123.4	10,793	327	85.40	81.80	78.30	25.1	31.72	
		1676.4	25.40	1,034.1	3,134.4	1,473,880	17,584	417.10	399.60	382.10	531.3	9.67	
PZ72/Z14-770	Z14-770	72	0.750	571.31	135.0	9,548	265	61.50	59.40	57.20	18.1	31.98	
		1828.8	19.05	850.2	3,429.0	1,303,904	14,260	300.50	290.00	279.50	382.8	9.75	
PZ72/Z19-700	Z19-700	72	0.813	618.68	129.5	10,796	299	68.90	66.60	64.20	20.2	32.13	
		1828.8	19.05	920.7	3,289.3	1,474,260	16,123	336.20	324.90	313.70	428.2	9.79	
PZ72/Z26-700	Z26-700	72	0.875	665.29	129.5	11,610	324	75.10	72.55	70.00	22.5	33.04	
		1828.8	20.65	990.1	3,289.3	1,590,426	17,393	366.80	354.27	341.70	467.2	10.07	
PZ72/Z38-700	Z38-700	72	1.00	759.07	129.5	13,332	370	87.26	83.88	80.51	25.6	33.29	
		1828.8	25.40	1,129.7	3,289.3	1,820,650	19,911	426.06	409.58	393.10	542.8	10.15	
PZ78/Z26-700	Z26-700	78	0.875	721.49	135.4	14,150	363	77.28	74.61	71.94	22.7	34.60	
		1981.2	22.22	1,073.7	3,439.2	1,932,360	19,507	377.34	364.30	351.27	480.7	10.50	
PZ78/Z38-700	Z38-700	78	1.00	823.22	135.4	16,174	415	89.07	85.85	82.62	26.2	34.86	
		1981.2	25.40	1,225.1	3,439.2	2,208,718	22,297	434.94	419.18	403.43	554.1	10.63	
PZ84/Z26-700	Z26-700	84	0.875	777.62	141.4	16,921	403	78.76	76.21	73.65	23.1	36.19	
		2133.6	22.22	1,157.2	3,591.6	2,310,773	21,661	384.58	372.10	359.62	490.0	11.03	
PZ84/Z38-700	Z38-700	84	1.00	887.37	141.4	19,329	460	90.74	87.65	84.56	26.6	36.43	
		2133.6	25.40	1,320.6	3,591.6	2,639,544	24,743	443.06	427.97	412.89	564.5	11.11	