CORRUGATED DECKING

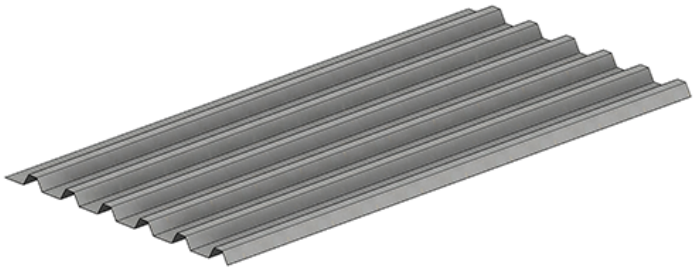
Description

Cogan corrugated decking is a steel underlay used to reinforce resin board and concrete flooring. Complete with a galvanized top side and white underside, corrugated steel decking is available in three different gauges for your convenience.

PRODUCT INFORMATION

Specifications

Gauges	18GA, 20GA, 22GA
Decking Width	3'-0"
Decking Length	4'-0", 8'-0", 9'-0", 10'-0", 11'-0", 12'-0", 13'-0", 14'-0", 15'-0", 16'-0"
Finish	Galvanized, white underside
Application	Flooring



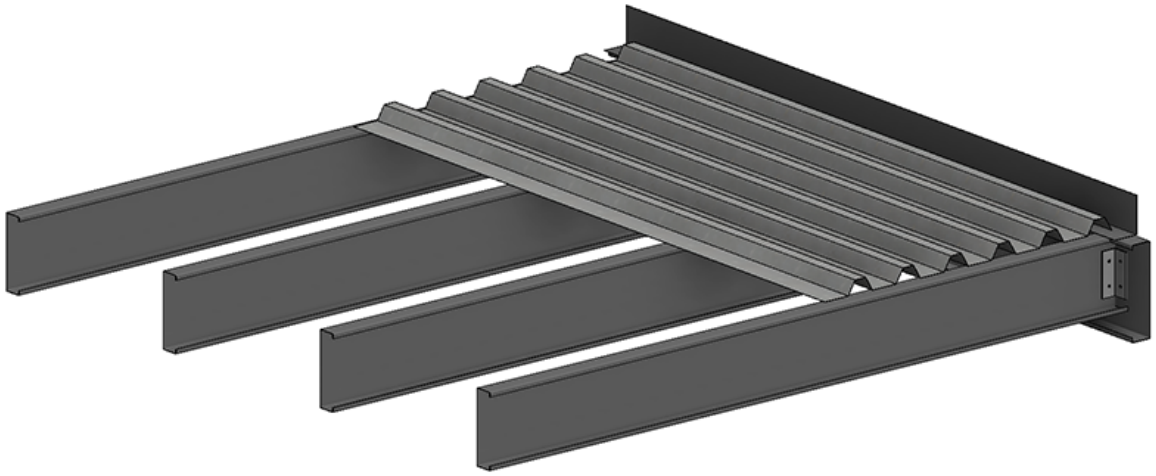
COLORS POWDER COATED TOUGH

White

Electro-Galvanized

DETAILS

Please consult the tables below for further information regarding properties and load capacity.

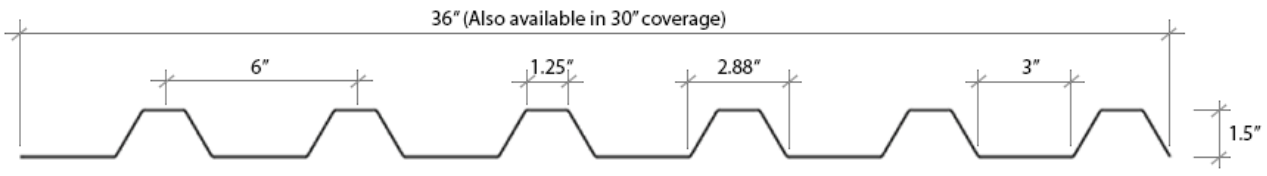


Gauge	Size	ITEM#
18ga	3' x 4'	SD1834
18ga	3' x 8'	SD1838
18ga	3' x 9'	SD1839
18ga	3' x 10'	SD18310
18ga	3' x 11'	SD18311
18ga	3' x 12'	SD18312
18ga	3' x 13'	SD18313
18ga	3' x 14'	SD18314
18ga	3' x 15'	SD18315
18ga	3' x 16'	SD18316

Gauge	Size	ITEM#
20ga	3' x 4'	SD2034
20ga	3' x 8'	SD2038
20ga	3' x 9'	SD2039
20ga	3' x 10'	SD20310
20ga	3' x 11'	SD20311
20ga	3' x 12'	SD20312
20ga	3' x 13'	SD20313
20ga	3' x 14'	SD20314
20ga	3' x 15'	SD20315
20ga	3' x 16'	SD20316

Gauge	Size	ITEM#
22ga	3' x 4'	SD2234
22ga	3' x 8'	SD2238
22ga	3' x 9'	SD2239
22ga	3' x 0'	SD22310
22ga	3' x 11'	SD22311
22ga	3' x 12'	SD22312
22ga	3' x 13'	SD22313
22ga	3' x 14'	SD22314
22ga	3' x 15'	SD22315
22ga	3' x 16'	SD22316

CORRUGATED DECKING SIDEVIEW



DETAILS

Please consult the tables below for further information regarding properties and load capacity.

Section Properties (Per Foot of Width)

Base Steel Thickness (in.)	Weight G90 (psf)	Yield Stress (ksi)	Section Modulus Mid Span (in^3)	Section Modulus Support (in^3)	Deflection Moment of Inertia Mid Span (in^4)	Specified Web Crippling Data (lb) End P_{e1}	End P_{e2}	Interior P_{i1}	Interior P_{i2}
0.018	1.04	33	0.0940	0.0888	0.0985	54.1	13.5	105	17.9
0.024	1.36	33	0.136	0.127	0.132	102	25.5	197	33.4
0.030	1.69	33	0.175	0.162	0.165	165	41.3	318	54.1
0.036	2.02	33	0.208	0.198	0.197	244	61.1	470	79.8

Load Table

Live Load Factor = 1.5; Importance Factor = 0.90; Importance Category = 1.0

Maximum Specified Uniformly Distributed Loads in psf

Span (in.)		1-Span Base Steel Thickness (in.)					2-Span Base Steel Thickness (in.)					3-Span Base Steel Thickness (in.)			
		0.018	0.024	0.030	0.036		0.018	0.024	0.030	0.036		0.018	0.024	0.030	0.036
48	S	78	112	144	172		73	105	134	164		92	131	167	205
	D	149	200	250	299		358	480	599	717		282	378	472	565
54	S	61	88	114	136		58	83	106	129		72	103	132	162
	D	105	140	175	210		251	337	421	504		198	266	331	397
60	S	50	72	92	110		47	67	86	105		59	84	107	131
	D	76	102	128	153		183	246	307	367		144	194	241	289
66	S	41	59	76	91		39	55	71	87		48	69	89	108
	D	57	77	96	115		138	185	230	276		108	145	181	217
72	S	34	50	64	76		33	47	60	73		41	58	74	91
	D	44	59	74	89		106	142	177	213		84	112	140	167
78	S	29	42	55	65		28	40	51	62		35	50	63	77
	D	35	47	58	70		83	112	140	167		66	88	110	132
84	S	25	37	47	56		24	34	44	53		30	43	55	67
	D	28	37	47	56		67	90	112	134		53	71	88	105
90	S	22	32	41	49		21	30	38	47		26	37	48	58
	D	23	30	38	45		54	73	91	109		43	57	72	86
96	S	19	28	36	43		18	26	33	41		23	33	42	51
	D	19	25	31	37		45	60	75	90		35	47	59	71
102	S	17	25	32	38		16	23	30	36		20	29	37	45
	D	16	21	26	31		37	50	62	75		29	39	49	59
108	S	15	22	28	34		14	21	26	32		18	26	33	40
	D	13	18	22	26		31	42	53	63		25	33	41	50

Notes:

1. Steels conforms to ASTM A653.

2. Section properties are in accordance with CSA-S136-07.

3. Values in row "S" are based on strength.

4. Values in row "D" are based on a deflection limit of 1/180 of the span.

5. Web crippling not included in strength values.

6. Contact the sales department for stocked colours and gauges.

7. The load table contained on this data sheet was prepared by Dr. R.M. Schuster P.Eng. Professor Emeritus of Structural Engineering, University Waterloo, Ontario, Canada.