

Galvabond®
STEELDEK® IV-X

BASE METAL TYPE: Cold Rolled Steel

SUBSTRATE: Available in GALVABOND™; Structural Grade C (40,000 psi) and Grade E (80,000 psi) complying with ASTM A653

LENGTH: Available in factory-cut custom ordered lengths. Longer panels can be supplied provided satisfactory transport and on-site handling can be arranged.

APPLICATIONS: Floor and Roof Decking

**Thicker base metal & zinc coating mass can be arranged.*



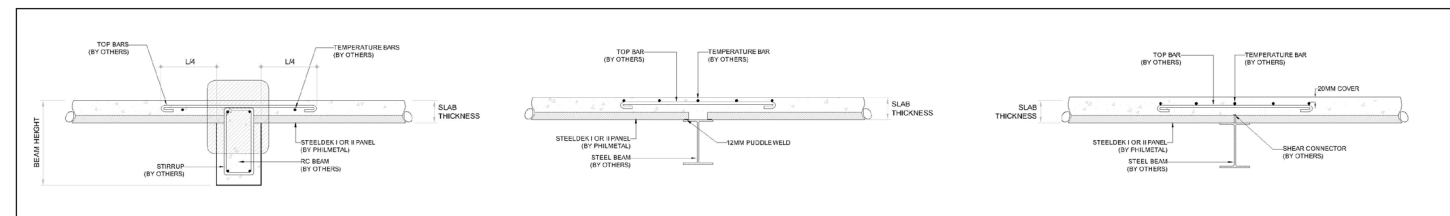
STEELDEK IV CQ SECTION PROPERTIES

THICKNESS	WEIGHT	AREA		I _x		S _{TOP}		S _{BOT}		Y _{TOP}		Y _{BOT}	
mm	kg/m ²	mm ²	in ²	mm ⁴	in ⁴	mm ³	in ³	mm ³	in ³	mm	in.	mm	in.
0.80	8.33	1067.86	0.505	423188	0.31	16524	0.308	17351	0.323	25.61	1.008	24.39	0.960
1.00	10.61	1364.49	0.645	540740	0.396	21197	0.394	22080	0.411	25.51	1.004	24.49	0.964
1.20	12.54	1616.63	0.764	640659	0.469	25203	0.469	26064	0.485	25.42	1.001	24.58	0.968

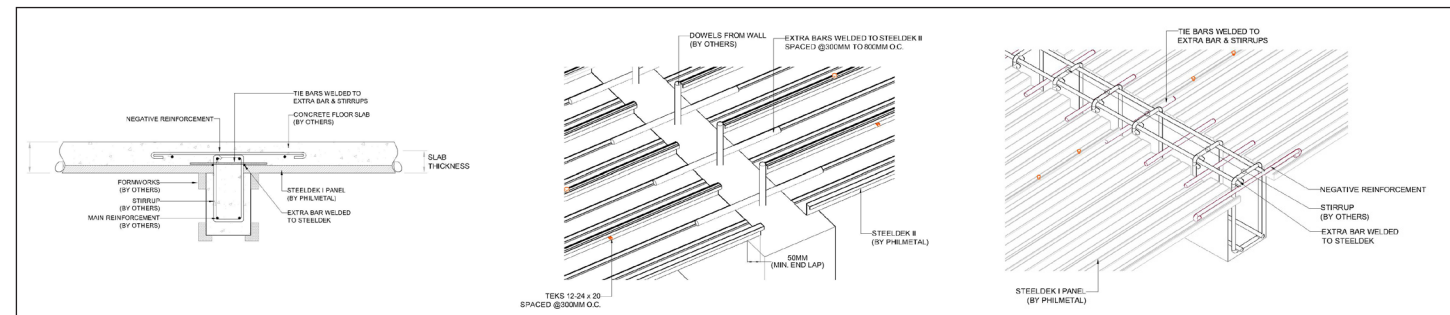
MAXIMUM ALLOWABLE CONSTRUCTION LIVE LOAD (kPa)

THICKNESS (mm)	SLAB DEPTH (mm)	CLEAR SPAN (m)											
		1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	
0.80	100	8.94	7.06	5.59	4.43	3.51	2.76	2.14	1.63	1.21	0.85	0.55	
	125	8.35	6.47	5.00	3.85	2.92	2.17	1.55	1.04	0.62	0.27	-	
	150	7.76	5.88	4.41	3.26	2.33	1.58	0.96	0.46	0.03	-	-	
	175	7.17	5.29	3.83	2.67	1.74	0.99	0.37	-	-	-	-	
	200	6.59	4.70	3.24	2.08	1.15	0.40	-	-	-	-	-	
1.00	100	11.89	9.49	7.61	6.13	4.95	3.99	3.20	2.55	2.01	1.56	1.17	
	125	11.30	8.90	7.02	5.54	4.36	3.40	2.61	1.96	1.42	0.97	0.58	
	150	10.71	8.31	6.43	4.95	3.77	2.81	2.02	1.38	0.83	0.38	-	
	175	10.13	7.72	5.85	4.37	3.18	2.22	1.44	0.79	0.25	-	-	
	200	9.54	7.13	5.26	3.78	2.59	1.63	0.85	0.20	-	-	-	
1.20	100	14.40	11.55	9.33	7.58	6.17	5.03	4.10	3.34	2.69	2.16	1.70	
	125	13.81	10.96	8.74	6.99	5.58	4.45	3.52	2.75	2.11	1.57	1.11	
	150	13.22	10.37	8.15	6.40	4.99	3.86	2.93	2.16	1.52	0.98	0.52	
	175	12.63	9.78	7.56	5.81	4.40	3.27	2.34	1.57	0.93	0.39	-	
	200	12.04	9.19	6.97	5.22	3.82	2.68	1.75	0.98	0.34	-	-	

DETAIL OF BEAM JOINT



SECTION DETAILS



Philmetal

Galvabond®
STEELDEK® I
STEELDEK® III
STEELDEK® IV-X

Your Built-to-Last Steel Decking

- ✓ **Unmatched Structural Integrity & Long Term Durability**
Industry compliant and made from high tensile 80,000psi Galvabond Pure Zinc.
- ✓ **High Structural Efficiency & Economy**
Designed to reduce formwork & propping requirements for faster construction and greater savings without compromising safety or performance.
- ✓ **Aesthetic Versatility**
Delivers a bold modern soffit profile, ideal for exposed ceiling & contemporary design.

Recommended for:

- Multi-storey Residential & Commercial Buildings
- Parking Structures
- Bridges & Overpasses



Galvabond®
STEELDEK® I

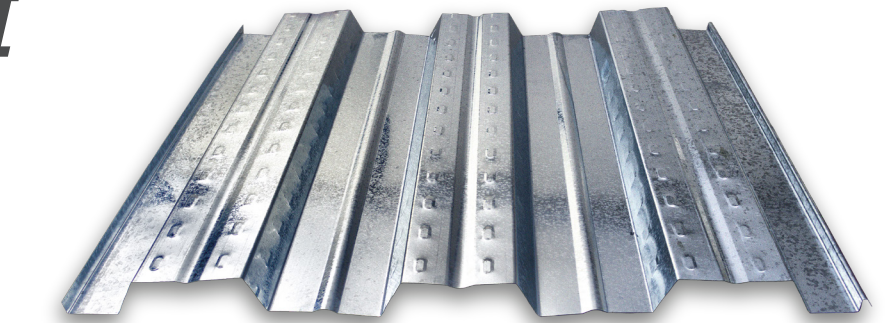
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(80,000 psi) complying with ASTM A653

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lengths. Longer panels can be supplied provided
satisfactory transport and on-site handling can be
arranged.

APPLICATIONS: Floor and Roof Decking

**Thicker base metal & zinc coating mass can be arranged.*



STEELDEK I SECTION PROPERTIES

THICKNESS	WEIGHT	AREA		I _x		S _{TOP}		S _{BOT}		Y _{TOP}		Y _{BOT}	
mm	kg/m ²	mm ²	in ²	mm ⁴	in ⁴	mm ³	in ³	mm ³	in ³	mm	in.	mm	in.
0.80	7.02	882.26	0.417	407611	0.299	16156	0.301	16456	0.307	25.23	0.993	24.77	0.975
1.00	8.94	1127.33	0.533	520836	0.381	20726	0.385	20942	0.389	25.13	0.989	24.87	0.979
1.20	10.58	1335.64	0.631	617078	0.452	24634	0.458	24733	0.460	25.05	0.986	24.95	0.982
1.40	13.37	1691.00	0.799	781254	0.572	31376	0.584	31126	0.579	24.9	0.980	25.1	0.988
1.60	15.10	1911.56	0.903	883157	0.647	35597	0.662	35060	0.652	24.81	0.977	25.19	0.992

MAXIMUM ALLOWABLE CONSTRUCTION LIVE LOAD (KPA)

THICKNESS (mm)	SLAB DEPTH (mm)	CLEAR SPAN (m)										
		1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50
0.80	100	8.67	6.86	5.45	4.33	3.44	2.72	2.12	1.63	1.23	0.88	0.59
	125	8.09	6.27	4.86	3.74	2.85	2.13	1.53	1.05	0.64	0.30	-
	150	7.50	5.68	4.27	3.15	2.26	1.54	0.95	0.46	0.05	-	-
	175	6.91	5.09	3.68	2.57	1.67	0.95	0.36	-	-	-	-
	200	6.32	4.50	3.09	1.98	1.08	0.36	-	-	-	-	-
1.00	100	11.52	9.20	7.40	5.97	4.83	3.90	3.15	2.52	2.00	1.56	1.19
	125	10.93	8.61	6.81	5.38	4.24	3.32	2.56	1.93	1.41	0.98	0.60
	150	10.34	8.02	6.22	4.79	3.65	2.73	1.97	1.34	0.82	0.39	-
	175	9.75	7.43	5.63	4.20	3.06	2.14	1.38	0.76	0.23	-	-
	200	9.16	6.84	5.04	3.61	2.47	1.55	0.79	0.17	-	-	-
1.20	100	13.94	11.19	9.05	7.36	6.01	4.92	4.02	3.28	2.66	2.14	1.70
	125	13.35	10.60	8.46	6.77	5.42	4.33	3.43	2.69	2.07	1.55	1.11
	150	12.76	10.01	7.87	6.18	4.83	3.74	2.84	2.10	1.48	0.96	0.53
	175	12.17	9.42	7.28	5.60	4.24	3.15	2.25	1.51	0.89	0.38	-
	200	11.58	8.83	6.69	5.01	3.65	2.56	1.66	0.92	0.30	-	-
1.40	100	18.06	14.58	11.88	9.74	8.03	6.64	5.50	4.57	3.79	3.13	2.57
	125	17.47	13.99	11.29	9.15	7.44	6.05	4.92	3.98	3.20	2.54	1.98
	150	16.88	13.40	10.70	8.56	6.85	5.46	4.33	3.39	2.61	1.95	1.39
	175	16.29	12.82	10.11	7.97	6.26	4.87	3.74	2.80	2.02	1.36	0.81
	200	15.70	12.23	9.52	7.38	5.67	4.28	3.15	2.21	1.43	0.77	0.22
1.60	100	20.62	16.69	13.63	11.21	9.28	7.71	6.43	5.37	4.48	3.74	3.11
	125	20.03	16.10	13.04	10.62	8.69	7.12	5.84	4.78	3.89	3.15	2.52
	150	19.44	15.51	12.45	10.03	8.10	6.53	5.25	4.19	3.31	2.56	1.93
	175	18.85	14.92	11.86	9.44	7.51	5.94	4.66	3.60	2.72	1.97	1.35
	200	18.26	14.33	11.27	8.86	6.92	5.35	4.07	3.01	2.13	1.38	0.76

Galvabond®
STEELDEK® III

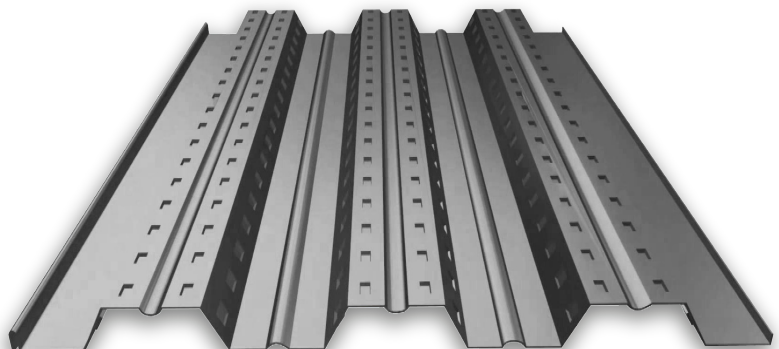
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APPLICATIONS: Floor and Roof Decking

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STEELDEK III SECTION PROPERTIES

THICKNESS	WEIGHT	AREA		I _x		S _{TOP}		S _{BOT}		Y _{TOP}		Y _{BOT}	
mm	kg/m ²	mm ²	in ²	mm ⁴	in ⁴	mm ³	in ³	mm ³	in ³	mm	in.	mm	in.
0.80	7.32	932.31	0.441	720345	0.528	21325	0.397	21050	0.392	33.78	1.330	34.22	1.347
1.00	9.33	1191.29	0.563	920441	0.674	27329	0.508	26819	0.499	33.68	1.326	34.32	1.351
1.20	11.03	1411.42	0.667	1090522	0.799	32466	0.604	31692	0.590	33.59	1.322	34.41	1.355
1.40	13.94	1786.93	0.844	1380661	1.011	41275	0.768	39961	0.743	33.45	1.317	34.55	1.360
1.60	15.75	2020.01	0.955	1560747	1.143	46785	0.871	45056	0.838	33.36	1.313	34.64	1.364

MAXIMUM ALLOWABLE CONSTRUCTION LIVE LOAD (KPA)

THICKNESS (mm)	SLAB DEPTH (mm)	CLEAR SPAN (m)										
		1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50
0.80	100	16.62	13.42	10.92	8.95	7.37	6.09	5.05	4.18	3.46	2.86	2.35
	125	16.04	12.83	10.33	8.36	6.78	5.51	4.46	3.59	2.87	2.27	1.76
	150	15.45	12.24	9.74	7.77	6.19	4.92	3.87	3.01	2.29	1.68	1.17
	175	14.86	11.65	9.16	7.18	5.61	4.33	3.28	2.42	1.70	1.09	0.58
	200	14.27	11.06	8.57	6.60	5.02	3.74	2.69	1.83	1.11	0.50	-
1.00	100	21.66	17.57	14.38	11.86	9.84	8.21	6.87	5.77	4.85	4.07	3.42
	125	21.07	16.98	13.79	11.27	9.25	7.62	6.28	5.18	4.26	3.48	2.83
	150	20.49	16.39	13.20	10.68	8.66	7.03	5.69	4.59	3.67	2.89	2.24
	175	19.90	15.80	12.61	10.09	8.08	6.44	5.11	4.00	3.08	2.31	1.65
	200	19.31	15.21	12.02	9.50	7.49	5.85	4.52	3.41	2.49	1.72	1.06
1.20	100	25.95	21.09	17.32	14.33	11.94	10.01	8.42	7.11	6.02	5.11	4.33
	125	25.36	20.50	16.73	13.74	11.35	9.42	7.83	6.52	5.43	4.52	3.74
	150	24.77	19.92	16.14	13.15	10.76	8.83	7.24	5.94	4.84	3.93	3.15
	175	24.18	19.33	15.55	12.56	10.17	8.24	6.66	5.35	4.26	3.34	2.56
	200	23.59	18.74	14.96	11.97	9.59	7.65	6.07	4.76	3.67	2.75	1.97
1.40	100	33.25	27.11	22.33	18.55	15.52	13.07	11.07	9.41	8.03	6.87	5.89
	125	32.67	26.52	21.74	17.96	14.93	12.48	10.48	8.82	7.44	6.28	5.30
	150	32.08	25.93	21.15	17.37	14.34	11.90	9.89	8.23	6.85	5.69	4.71
	175	31.49	25.34	20.56	16.78	13.76	11.31	9.30	7.64	6.26	5.10	4.12
	200	30.90	24.75	19.97	16.19	13.17	10.72	8.71	7.05	5.67	4.51	3.53
1.60	100	37.79	30.84	25.44	21.16	17.75	14.98	12.71	10.84	9.27	7.96	6.85
	125	37.20	30.25	24.85	20.58	17.16	14.39	12.12	10.25	8.69	7.37	6.26
	150	36.61	29.67	24.26	19.99	16.57	13.80	11.53	9.66	8.10	6.78	5.67
	175	36.02	29.08	23.67	19.40	15.98	13.21	10.94	9.07	7.51	6.20	5.08
	200	35.43	28.49	23.08	18.81	15.39	12.62	10.35	8.48	6.92	5.61	4.50