

The Best In Steel Decking Technology



Galvabond[®] **STEELDEK** S E R I E S



Designed to endure anything.



IMPORTANT NOTICE

Buyers and end-users of **Steeldek** which are procured from sources not authorized by **PHILMETAL** are forewarned that they are also criminally and civilly liable for infringement of copyright once the copied **Steeldek** roofing is utilized, used and displayed for public view.

Section 217 of the Intellectual Property Code penalizes infringement with imprisonment from 1 to 9 years plus a fine of P50,000.00 up to P1,500,000.00.



STEELDEK SERIES

GENERAL PRODUCT INFORMATION

BASE METAL TYPE: Cold Rolled Steel

LENGTH:

Available up to 13.7 m factory-cut custom ordered lengths. Longer panels can be supplied provided satisfactory transport and on-site handling can be arranged.

APPLICATIONS

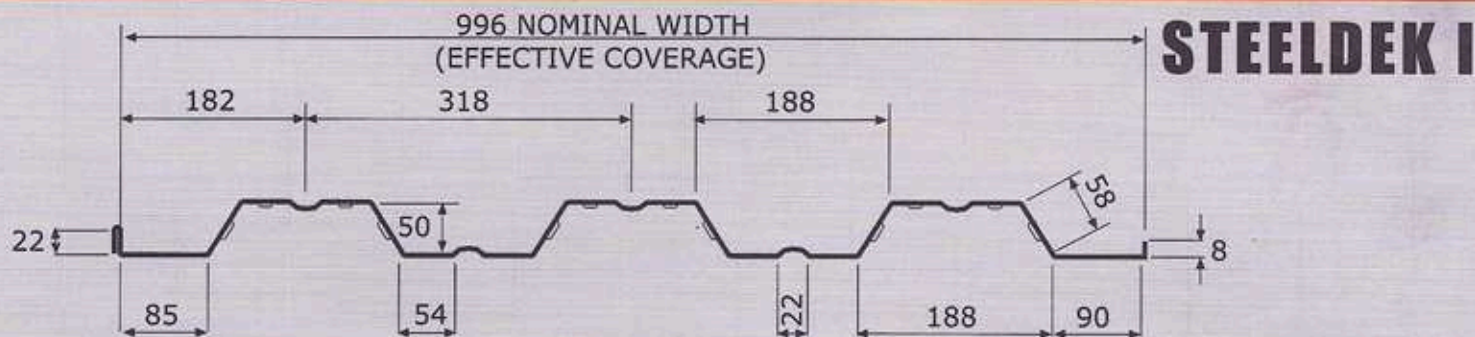
Floor and Roof Decking

SUBSTRATE:

Available in GALVABOND™, Structural Quality Grade C (40,000 psi) and Grade E (60,000 psi) complying with ASTM A653.

(THICKER ZINC COATING AS WELL AS LENGTH SPANS CAN BE ARRANGED)

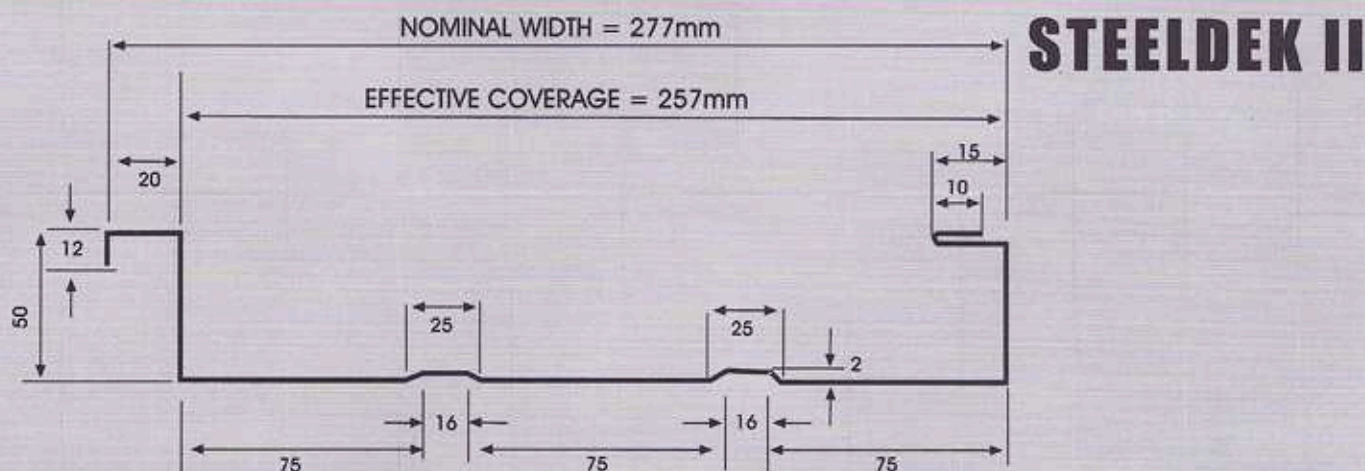
STEELDEK I CROSS SECTION



STEELDEK I SECTION PROPERTIES PER METER WIDTH

Thickness	W	AREA	I _x	S _{TOP}	S _{BOT}	Y _{TOP}	Y _{BOT}
mm	kg/m ²	mm ²	mm ⁴	mm ³	mm ³	mm	mm
0.80	8.22	1047.42	401011	15312	16163	26.19	24.81
1.00	10.28	1309.27	504252	19320	20251	26.10	24.90
1.20	12.33	1571.13	618904	23813	24746	25.99	25.01
1.40	14.39	1832.98	722689	27903	28792	25.90	25.10
1.60	16.44	2094.83	831364	32223	32991	25.80	25.20

STEELDEK II CROSS SECTION



STEELDEK II SECTION PROPERTIES PER METER WIDTH

Thickness	W	AREA	I _x	S _{TOP}	S _{BOT}	Y _{TOP}	Y _{BOT}
mm	kg/m ²	mm ²	mm ⁴	mm ³	mm ³	mm	mm
0.80	10.30	1312.62	667447	18387	48719	36.30	13.70
1.00	12.88	1640.78	839283	23178	60862	36.21	13.79

High Structural Efficiency, Fast Construction, Greater Economy

DESIGN CRITERIA (FLOOR/ROOF DECK VERTICAL LOAD TABLES)

1. Steel Grade for STEELDEK conforms to ASTM A-653 Grade C & E.
2. Section properties were computed in strict accordance with the specifications of the American Iron and Steel Institute and Steel Deck Institute.
3. Bending Moment formulas used for flexural stress limitations are:

$$\text{Simple \& Two Spans } M = \frac{wL^2}{8} \quad \text{Three Spans } M = \frac{wL^2}{10}$$

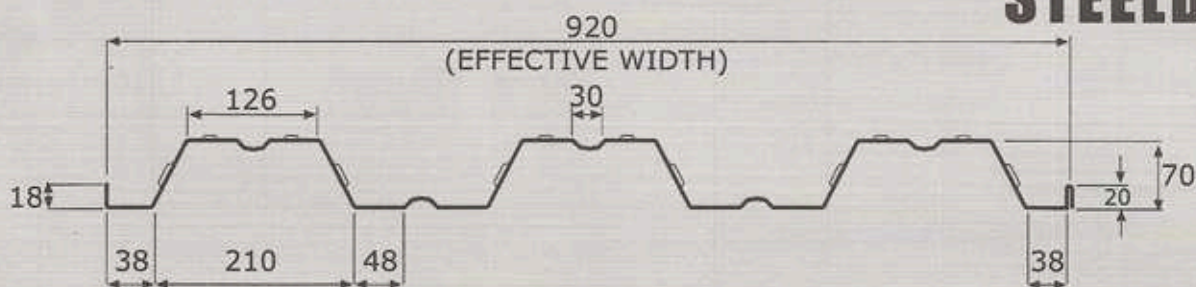
4. Deflection formulas for deflection limitations are:

$$\text{Simple Spans } M = \frac{5wL^4}{384EI} \quad \text{Two or Three Spans } M = \frac{3wL^4}{384EI}$$

5. Loads are governed by live load deflection less than L/360 of span or by allowable flexural stress limit.

6. Minimum yield point: 80,000psi Allowable design stress 36,000psi
40,000psi 24,000psi

STEELDEK III CROSS SECTION

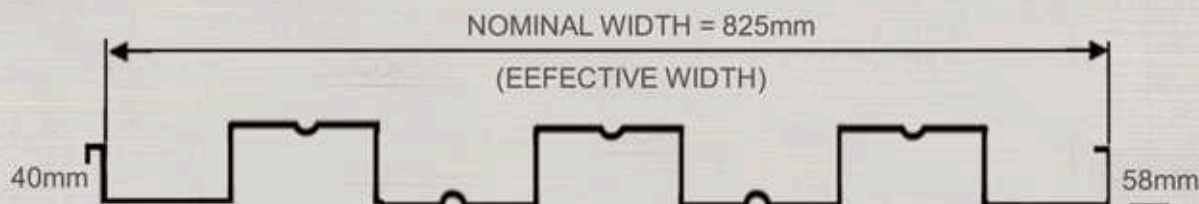


STEELDEK III

STEELDEK III SECTION PROPERTIES PER METER WIDTH

Thickness	W	AREA	I _x	S _{TOP}	S _{BOT}	Y _{TOP}	Y _{BOT}
mm	kg/m ²	mm ²	mm ⁴	mm ³	mm ³	mm	mm
0.80	7.96	1013.51	724256	20694	20265	35.00	35.74
1.00	10.00	1274.44	910717	26089	25418	34.91	35.83
1.20	12.55	1598.41	1333017	34163	35911	39.02	37.12
1.40	14.73	1876.27	1564745	40002	42040	39.12	37.22
1.60	16.85	2147.12	1790620	45882	47993	39.03	37.31

STEELDEK IIA CROSS SECTION



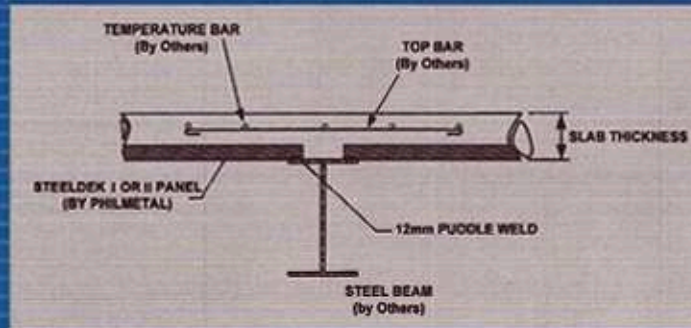
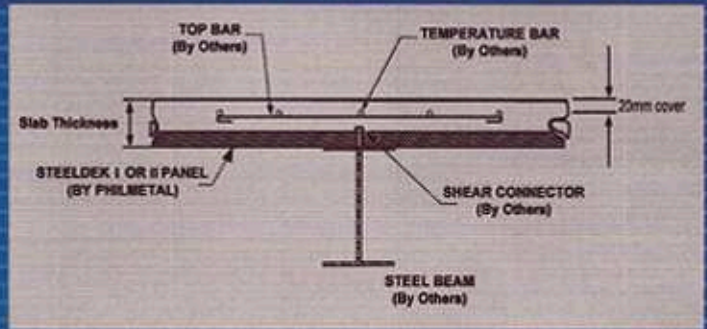
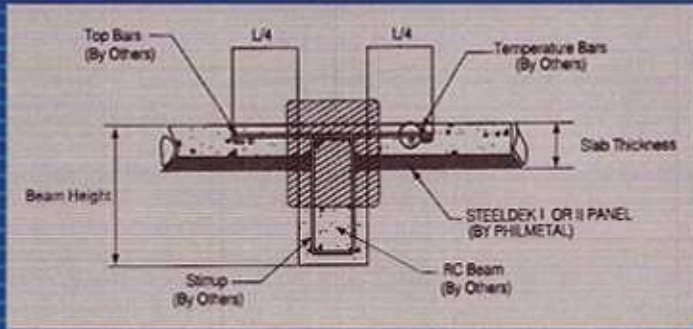
STEELDEK IV

STEELDEK IIA SECTION PROPERTIES PER METER WIDTH

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	8.56	1091 0.515	585851 0.429	20370 0.379	20036 0.373	28.76 1.132	29.34 1.151
1.00	10.78	1373 0.649	737295 0.540	25726 0.479	25129 0.468	28.66 1.128	29.34 1.155

STEELDEK SERIES Designed to Endure Anything

DETAIL OF BEAM JOINT



SECTIONAL DETAILS

