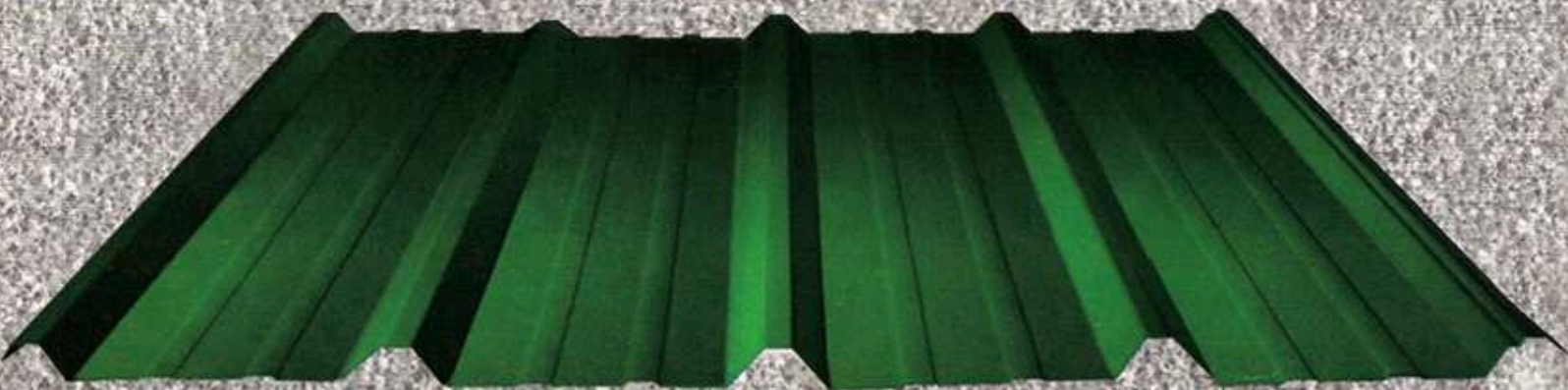


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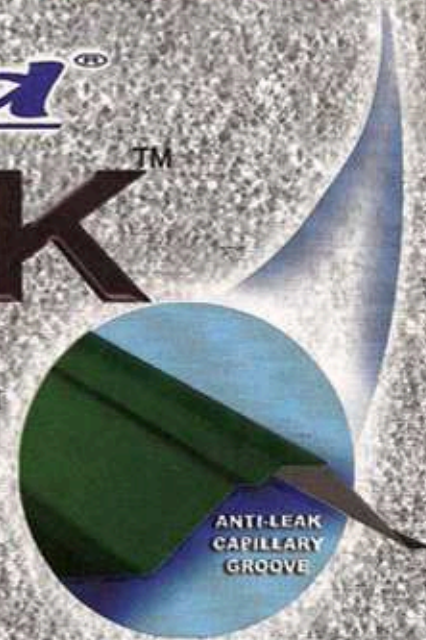


Yet unmatched.



Colorbond[®]

SPANDEK[™]
Still the best.



**Widest Profile. Most Durable.
Structurally Superior.
Optimum Protection Against Leaks.**



IMPORTANT NOTICE

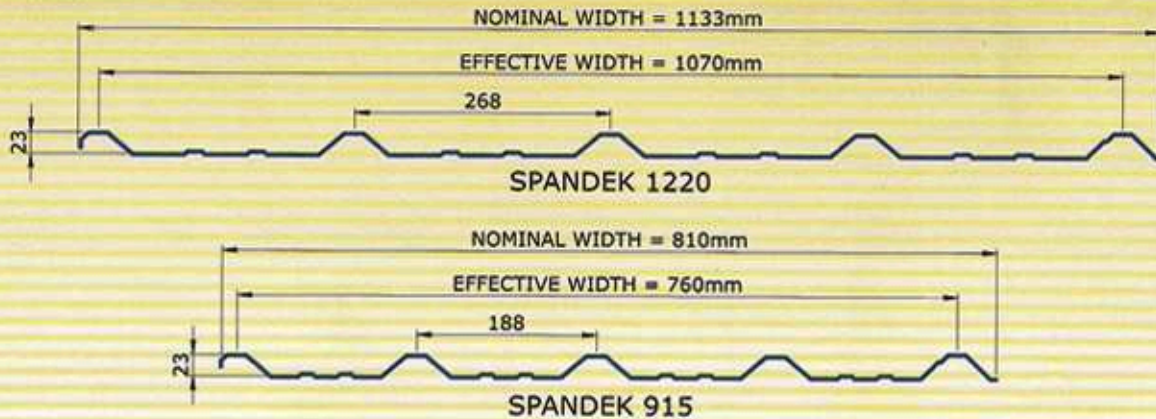
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Color may vary from actual product

CROSS-SECTION



GENERAL PRODUCT INFORMATION

BASE METAL TYPE: Cold Rolled Steel:
550 MPa (80,000 psi);
275 MPa (40,000 psi)

SUBSTRATE: GALVALUMES 55™, Zinc-Aluminum alloy-coated steel complying with ASTM A792. Also available in GALVABOND™; Lock Forming Quality (PNS 67: 1986)

PAINT COATING: **STANDARD**
Double oven-baked epoxy primer and high grade polyester finish.

COATING
Top: Total of 25 microns
Finish Coat: 20 microns
Primer Coat: 5 microns
Bottom: Total of 10 microns
Backing Coat: 5 microns
Primer Coat: 5 microns

OPTIONAL
Premium Fluorocarbon (PVdF) paint finish on top of corrosion -resistant epoxy primer

SALT SPRAY TEST RATING: Class 1000 hours (passed 1000 hours of continuous exposure as per PNS 201: 1990). The only prepainted ribbed profile product in the market to have passed class 1000 rating

AVAILABLE THICKNESSES: 0.40 mm to 0.80mm

LENGTH: Longspan

WIDTH :	Feed Width	Nominal Width	Effective Coverage
	915mm	810mm	760mm
	1220mm	1133mm	1070mm

RAINFALL CAPACITY: Roofs in single sheet lengths without laps.10' SPANDEK can drain off a rainfall intensity of 745 mm/hr over a total run length, including expansion joints of 25000 mm

APPLICATIONS: Roofing and Walling

STANDARD COLORS: Pacific Blue, Samar Beige, Spanish Red, Tile Red, Laguna White and Baguio Green. Special colors are available upon request.

RECOMMENDED FASTENERS: Steel-Teks # 12-24 x 45mm with Neoprene washer
Wood-Teks # 12-11 x 65mm with Neoprene washer

(THICKER ZINC AND PAINT COATINGS AS WELL AS LONGER SPANS CAN BE ARRANGED)

SPANDEK 1220 SECTION PROPERTIES

Thickness	Area		Ix		S _{TOP}		S _{BOT}		Y _{TOP}		Y _{BOT}	
	mm ²	in ²	mm ⁴	in ⁴	mm ³	in ³	mm ³	in ³	mm	in.	mm	in.
0.40	376.43	0.178	21412	0.016	1147	0.022	4570	0.087	18.49	0.73	4.51	0.18
0.50	481.83	0.228	27407	0.020	1465	0.027	5789	0.107	18.49	0.73	4.51	0.18
0.60	578.63	0.273	32913	0.024	1755	0.032	6887	0.128	18.49	0.73	4.51	0.18
0.80	793.73	0.375	45149	0.033	2394	0.044	9254	0.172	18.49	0.73	4.51	0.18

SPANDEK LOADING TABLES

0.40 mm

SPAN BETWEEN SUPPORTS	mm	600	750	900	1050	1200
LOAD	psf	135	87	60	44	33
DEFLECTION	in.	0.10	0.15	0.22	0.30	0.38
L / 240	psf	137	70	40	25	17
L / 360	psf	92	47	27	17	11

0.50 mm

SPAN BETWEEN SUPPORTS	mm	600	750	900	1050	1200
LOAD	psf	166	106	74	54	41
DEFLECTION	in.	0.09	0.15	0.21	0.29	0.38
L / 240	psf	171	88	50	32	21
L / 360	psf	115	59	34	21	14

0.60 mm

SPAN BETWEEN SUPPORTS	mm	600	750	900	1050	1200
LOAD	psf	197	125	87	64	49
DEFLECTION	in.	0.09	0.15	0.21	0.29	0.37
L / 240	psf	206	105	61	38	25
L / 360	psf	138	70	41	26	17

0.80 mm

SPAN BETWEEN SUPPORTS	mm	600	750	900	1050	1200	1350
LOAD	psf	181	116	80	59	45	35
DEFLECTION	in.	0.06	0.10	0.14	0.19	0.25	0.32
L / 240	psf	283	145	84	52	35	24
L / 360	psf	189	97	56	35	24	17

DESIGN CRITERIA

- Steel grade is 80,000 psi / 40,000 psi
- Section properties and Load Tables were computed in strict compliance with the specifications of AISI.
- Bending moment formulas used for flexural stress limitations are:

Simple Span or Double-Span	$M = \frac{WL^2}{8}$
Three-Span	$M = \frac{WL^2}{10}$
- Deflection formulas for deflection limitations are:

One-Span	$\frac{5WL^4}{384 EI}$
Two-Span	$0.0054 \frac{WL^4}{EI}$
Three-Span or more	$0.0069 \frac{WL^4}{EI}$
- Minimum Yield Point: 80,000 psi / 40,000 psi
 Allowable Design Stress: 36,000 psi / 24,000 psi

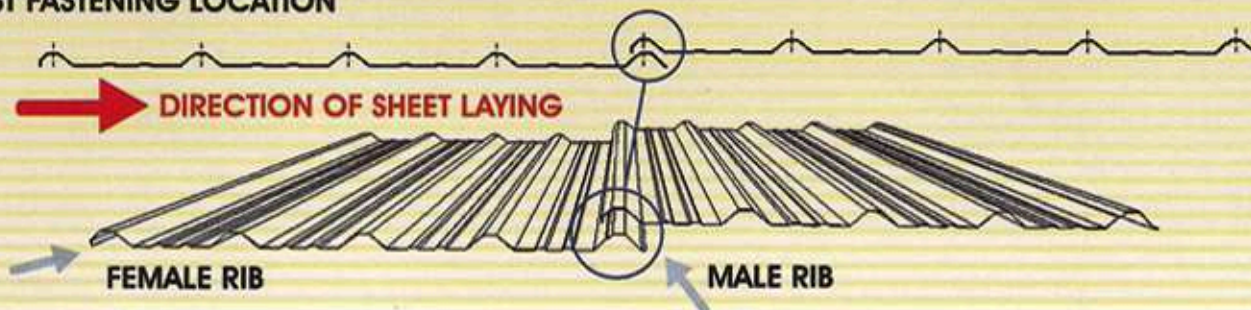
SHEET LAYING PROCEDURE

Lift sheets onto roof right way up with either the male or female rib facing the same direction, otherwise sheets will have to be turned end-for-end during fixing.

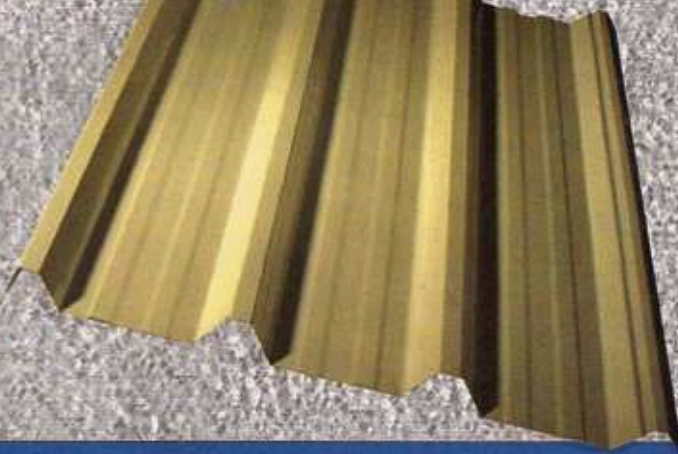
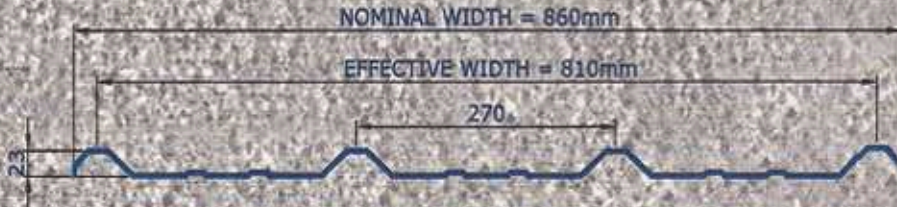
Where roof pitches are less than 15° turn sheet ends upwards at ridges or fascias and turn downwards at gutters, with Flange Bending Tool.

Walk only in the pans of Spandek. Stand only at supports.

CREST FASTENING LOCATION



DURAWIDE™



DURAWIDE SECTION PROPERTIES PER METER / FOOT WIDTH

Thickness	Area		I _x		S _{TOP}		S _{BOT}		Y _{TOP}		Y _{BOT}	
	mm	mm ²	in ²	mm ⁴	in ⁴	mm ³	in ³	mm ³	in ³	mm	in.	mm
0.30	277.87	0.131	16143	0.012	875	0.017	3356	0.063	18.32	0.72	4.68	0.18
0.40	374.06	0.177	21732	0.016	1175	0.022	4476	0.084	18.32	0.72	4.68	0.18
0.50	478.80	0.226	27816	0.020	1500	0.027	5672	0.104	18.32	0.72	4.68	0.18
0.60	574.98	0.272	33405	0.024	1797	0.033	6750	0.123	18.32	0.72	4.68	0.18

DURAWIDE LOADING TABLE

0.30mm

SPAN BETWEEN SUPPORTS	mm	600	750	900
LOAD / DEFLECTION	psf	105	67	46
	in.	0.10	0.16	0.22
L / 240	psf	103	52	30
L / 360	psf	69	35	20

0.50mm

SPAN BETWEEN SUPPORTS	mm	600	750	900	1050
LOAD / DEFLECTION	psf	166	106	74	54
	in.	0.09	0.15	0.21	0.29
L / 240	psf	171	88	50	32
L / 360	psf	115	59	34	21

0.40mm

SPAN BETWEEN SUPPORTS	mm	600	750	900
LOAD / DEFLECTION	psf	135	87	60
	in.	0.19	0.15	0.22
L / 240	psf	137	70	40
L / 360	psf	92	47	27

0.60mm

SPAN BETWEEN SUPPORTS	mm	600	750	900	1050
LOAD / DEFLECTION	psf	203	130	90	66
	in.	0.10	0.15	0.22	0.30
L / 240	psf	206	105	61	38
L / 360	psf	138	70	41	26

Note: Smallest value governs

