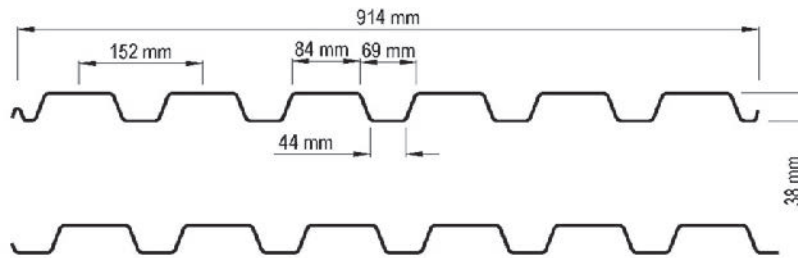


PROFILE SECTION



ALSO AVAILABLE WITH NESTED SIDELAP

Roof Deck
RD938
RDS938

PHYSICAL PROPERTIES

METRIC

STEEL DECK (Per Metre Width)

Properties are calculated in accordance with CAN/CSA S136-16 Standard
Material is based on ASTM A653M SS Grade 230 ($F_y = 230$ MPa)

BASE STEEL NOMINAL THICKNESS t (mm)	THICKNESS WITH COATING (mm)	WEIGHT WITH COATING w_s (kg/m ²)	EFFECTIVE SECTION MODULUS		MOMENT OF INERTIA I_d (10 ³)	FACTORED RESISTANCE			
			MIDSPAN S_{e+} (10 ³ mm ³)	SUPPORT S_{e-} (10 ³ mm ³)		MOMENT		REACTION DUE TO WEB CRIPPLING	
					MIDSPAN M_{r+} (N-m)	SUPPORT M_{r-} (N-m)	END P_{re} (kN)	INTERIOR P_{ri} (kN)	
0.76	0.80	8.20	9.88	9.84	223.2	2045.1	2036.2	10.7	14.8
0.91	0.95	9.88	12.07	12.26	275.5	2498.5	2537.5	15.0	21.1
1.21	1.26	12.96	16.41	16.40	372.9	3397.0	3393.9	25.3	36.6
1.52	1.56	16.03	20.74	20.62	466.3	4293.6	4268.7	38.2	56.2

LOAD TABLE

LIMIT STATES DESIGN

Uniformly Distributed Factored and Service Loads in kN/m² (kPa)

SUPPORT SPACING (mm)	ROW	1-SPAN Base Steel Nominal Thickness (mm)				2-SPAN Base Steel Nominal Thickness (mm)				3-SPAN Base Steel Nominal Thickness (mm)			
		0.76	0.91	1.21	1.52	0.76	0.91	1.21	1.52	0.76	0.91	1.21	1.52
		1000	F	16.4	20.0	27.2	34.3	11.9*	16.9*	27.2	34.1	13.5*	19.2*
	D	14.5	17.9	24.2	30.3	ok	ok	ok	ok	ok	ok	ok	ok
1200	F	11.4	13.9	18.9	23.9	9.9*	14.1	18.9	23.7	11.2*	16.0*	23.6	29.6
	D	8.4	10.4	14.0	17.5	ok	ok	ok	ok	ok	ok	ok	ok
1400	F	8.3	10.2	13.9	17.5	8.3	10.4	13.9	17.4	9.6*	12.9	17.3	21.8
	D	5.3	6.5	8.8	11.0	ok	ok	ok	ok	ok	12.3	16.7	20.8
1600	F	6.4	7.8	10.6	13.4	6.4	7.9	10.6	13.3	8.0	9.9	13.3	16.7
	D	3.5	4.4	5.9	7.4	ok	ok	ok	ok	6.7	8.2	11.2	14.0
1800	F	5.0	6.2	8.4	10.6	5.0	6.3	8.4	10.5	6.3	7.8	10.5	13.2
	D	2.5	3.1	4.2	5.2	ok	ok	ok	ok	4.7	5.8	7.8	9.8
2000	F		5.0	6.8	8.6	4.1	5.1	6.8	8.5	5.1	6.3	8.5	10.7
	D		2.2	3.0	3.8	ok	ok	ok	ok	3.4	4.2	5.7	7.1
2200	F			5.6	7.1		4.2	5.6	7.1	4.2	5.2	7.0	8.8
	D			2.3	2.8		4.0	5.5	6.9	2.6	3.2	4.3	5.4
2400	F				6.0			4.7	5.9		4.4	5.9	7.4
	D				2.2			4.2	5.3		2.4	3.3	4.1
2600	F							4.0	5.1		3.8	5.0	6.3
	D							3.3	4.2		1.9	2.6	3.3
2800	F								4.4			4.3	5.4
	D								3.3			2.1	2.6
3000	F								3.8				4.7
	D								2.7				2.1

NOTES

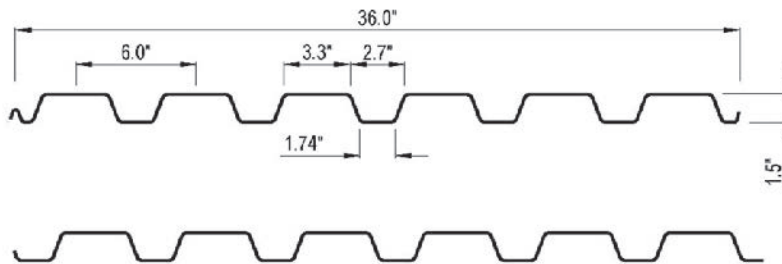
- Figures in Row F indicate the factored load capacity based on strength. Strength capacity shall be checked against factored loads determined in accordance with the applicable building code, e.g. [1.25 x Specified Dead Load] + [1.5 x Specified Live/Snow Load]
- Figures in Row D indicate the load capacity based on deflection of L/240. Divide values by 1.5 for deflection of L/360. Deflection capacity shall be checked against Specified Load(s).
- Moment of inertia is calculated at a stress level corresponding to service load moment equal to 0.67 M_f .
- Web crippling reaction values are based on bearing length equal to 38 mm.
- An * against a figure indicates capacity has been reduced to account for web crippling.
- For acoustic deck, reduce capacity by five percent (5%).
- Deck is not designed to carry concentrated hanging loads.

In accordance with ongoing efforts to improve our products and their performance, Vicwest Building Products reserves the right to change without notice the specifications contained herein.

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PROFILE SECTION



Roof Deck
RD938
RDS938

PHYSICAL PROPERTIES

IMPERIAL

STEEL DECK (Per Foot Width)									
Properties are calculated in accordance with CAN/CSA S136-16 Standard Material is based on ASTM A653 SS Grade 33 ($F_y = 33$ ksi)									
BASE STEEL NOMINAL THICKNESS t (in)	THICKNESS WITH G90 COATING (in)	WEIGHT WITH COATING w_s (lbs/ft ²)	EFFECTIVE SECTION MODULUS		MOMENT OF INERTIA I_d (in ⁴)	FACTORED RESISTANCE			
			MIDSPAN S_{e+} (in ³)	SUPPORT S_{e-} (in ³)		MOMENT		REACTION DUE TO WEB CRIPPLING	
					MIDSPAN M_{r+} (lb-in)	SUPPORT M_{r-} (lb-in)	END P_{re} (lbs)	INTERIOR P_{ri} (lbs)	
0.030	0.032	1.68	0.1838	0.1830	0.163	5457.8	5434.0	733	1015
0.036	0.038	2.02	0.2245	0.2280	0.202	6667.8	6771.7	1028	1449
0.048	0.050	2.65	0.3052	0.3050	0.273	9065.5	9057.3	1735	2510
0.060	0.062	3.28	0.3858	0.3836	0.341	11458.3	11391.9	2615	3852

LOAD TABLE

LIMIT STATES DESIGN

Uniformly Distributed Factored and Service Loads in lbs/ft ² (psf)													
SUPPORT SPACING	ROW	1-SPAN Base Steel Nominal Thickness (in)				2-SPAN Base Steel Nominal Thickness (in)				3-SPAN Base Steel Nominal Thickness (in)			
		0.030	0.036	0.048	0.060	0.030	0.036	0.048	0.060	0.030	0.036	0.048	0.060
		3' - 0"	F	404	494	672	849	271*	386*	669*	844	308*	439*
	D	396	489	662	827	ok	ok	ok	ok	ok	ok	ok	ok
3' - 6"	F	297	363	493	624	232*	331*	493	620	264*	376*	616	775
	D	249	308	417	521	ok	ok	ok	ok	ok	ok	ok	ok
4' - 0"	F	227	278	378	477	203*	282	377	475	231*	329*	472	593
	D	167	206	279	349	ok	ok	ok	ok	ok	ok	ok	ok
4' - 6"	F	180	220	298	377	179	223	298	375	205*	279	373	469
	D	117	145	196	245	ok	ok	ok	ok	ok	273	370	463
5' - 0"	F	146	178	242	306	145	181	242	304	181	226	302	380
	D	86	106	143	179	ok	ok	ok	ok	161	199	270	337
5' - 6"	F	120	147	200	253	120	149	200	251	150	187	250	314
	D	64	79	107	134	ok	ok	ok	ok	121	150	203	253
6' - 0"	F	101	123	168	212	101	125	168	211	126	157	210	264
	D	50	61	83	103	ok	ok	ok	ok	93	115	156	195
6' - 6"	F		105	143	181	86	107	143	180	107	134	179	225
	D		48	65	81	ok	ok	ok	ok	73	91	123	154
7' - 0"	F			123	156	74	92	123	155	92	115	154	194
	D			52	65	ok	ok	ok	ok	59	73	98	123
7' - 6"	F			107	136		80	107	135	81	100	134	169
	D			42	53		75	102	128	48	59	80	100
8' - 0"	F				119			94	119		88	118	148
	D				44			84	105		49	66	82

NOTES

- Figures in Row F indicate the factored load capacity based on strength. Strength capacity shall be checked against factored loads determined in accordance with the applicable building code, e.g. $[1.25 \times \text{Specified Dead Load}] + [1.5 \times \text{Specified Live/Snow Load}]$
- Figures in Row D indicate the load capacity based on deflection of L/240. Divide values by 1.5 for deflection of L/360. Deflection capacity shall be checked against Specified Load(s).
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