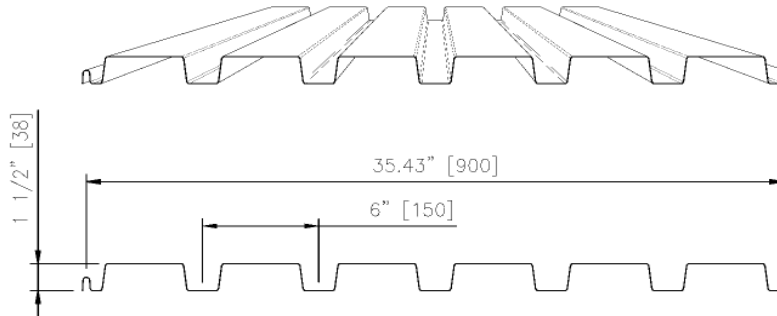




Properties for SM900RD-DL

(Per foot width)

Gauge Number	Base Steel Minimum Thickness Inches	Weight Pounds per Sq Ft.	MID - SPAN				SUPPORT				Coeff. of Defect.	Bearing Resistance K / ft.		Shear Resistance ϕv*Vn
			Section Modulus	Coeff. of Stress	Moment of Inertia	Section Modulus	Coeff. of Stress	Moment of Inertia						
			Sm In3	Csm	Im In4	Sm In3	Css	Im In4	L / 240	EXT	INT	K/Ft		
22	0.030	1.660	0.1786	3536	0.1567	0.1817	3598	0.1672	10273	0.75	1.16	2.482		
20	0.036	1.992	0.2178	4312	0.1954	0.2290	4534	0.2006	12810	1.05	1.64	2.979		
18	0.048	2.642	0.2954	5849	0.2665	0.3017	5974	0.3333	17471	1.78	2.82	3.972		
16	0.060	3.285	0.3722	7370	0.3327	0.3733	7391	1.7590	21810	2.68	4.31	4.965		

Allowable Superimposed Load Tables - psf

Span Ft.	ONE SPAN								TWO EQUAL SPANS								THREE EQUAL SPANS							
	0.030		0.036		0.048		0.060		0.030		0.036		0.048		0.060		0.030		0.036		0.048		0.060	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
4.0	146	*	178	*	241	*	304	*	144	*	187	*	246	*	305	*	164	*	232	*	308	*	382	*
4.5	115	112	140	*	190	*	239	239	117	*	147	*	194	*	240	*	146	*	185	*	243	*	301	*
5.0	93	82	113	102	153	139	193	174	94	*	119	*	157	*	194	*	118	*	149	*	196	*	243	*
5.5	76	62	93	77	126	105	159	131	78	*	98	*	129	*	160	*	97	*	123	*	162	*	200	*
6.0	64	47	78	59	106	81	133	101	65	*	82	*	108	*	134	*	82	*	103	*	136	*	168	*
6.5	54	37	66	47	90	63	113	79	55	*	70	*	92	*	113	*	69	*	87	*	115	*	142	*
7.0	46	30	57	37	77	51	97	63	47	*	60	*	79	*	97	*	59	56	75	70	99	96	122	120
7.5	40	24	49	30	67	41	84	52	41	*	52	*	68	*	84	*	52	46	65	57	86	78	106	97
8.0	35	20	43	25	58	34	73	42	36	*	45	*	60	59	74	*	45	38	57	47	75	64	93	80
8.5	31	17	38	21	51	28	65	35	31	*	40	*	52	50	65	*	40	31	50	39	66	54	82	67
9.0	27	14	33	17	45	24	57	30	28	*	35	*	46	42	57	*	35	26	45	33	59	45	73	56
9.5	24	12	30	15	41	20	51	25	25	28	31	35	41	35	51	60	31	23	40	28	52	38	65	48

SM900RD-DL Load Table Notes

- Column 'A' - Loads based on stress. Column 'B' - Loads based on L / 240 deflection. (*) denotes stress governs.
- Table lists lower value of bending or bearing resistance. **Italic** denotes web crippling governs.
- For deflection loads other than L / 240 multiply column 'B' by the following factors:

<u>DEFLECTION</u>	<u>MULTIPLIER</u>
L / 180	1.333
L / 360	0.666
- Load tables based on use of A653 Structural Quality Steel Sheet Grade 33 (maximum stress 29.7 Ksi).
- Sum of specified roof live load & roofing weights to be equal or less allowable superimposed loads above.
- Contact your **SAMSON METALS** representative for more information.