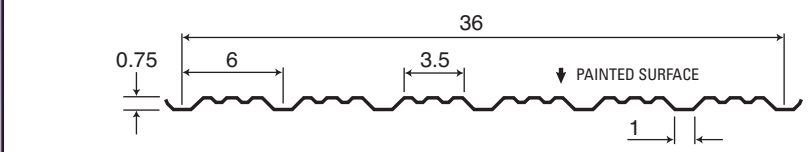
Wall Cladding and Liner Panel

DR6-75



ALL DIMENSIONS ARE IN INCHES

Section Properties

(Per Foot of Width)

Base Steel Thickness	Weight G90	Yield Stress	Section Modulus		Deflection Moment of Inertia	Specified Web Crippling Data (lb)			
			Mid Span (in^3)	Support (in^3)		End	End	Interior	Interior
(in.)	(psf)	(ksi)			Mid Span (in^4)	P_{e1}	P_{e2}	P_{i1}	P_{i2}
0.0120	0.64	33	0.0202	0.0221	0.0098	21.9	5.46	43.5	7.40
0.0135	0.71	80	0.0208	0.0232	0.0102	53.7	13.4	107	18.1
0.0180	0.93	33	0.0361	0.0381	0.0182	52.9	13.2	104	17.7
0.0240	1.22	33	0.0498	0.0550	0.0268	97.9	24.5	191	32.5

Load Table

Live Load Factor = 1.4; Importance Factor ($I_{W\text{-}SLS}$) = 0.75; Importance Factor ($I_{W\text{-}ULS}$) = 1.0

Maximum Specified Uniformly Distributed Loads in psf

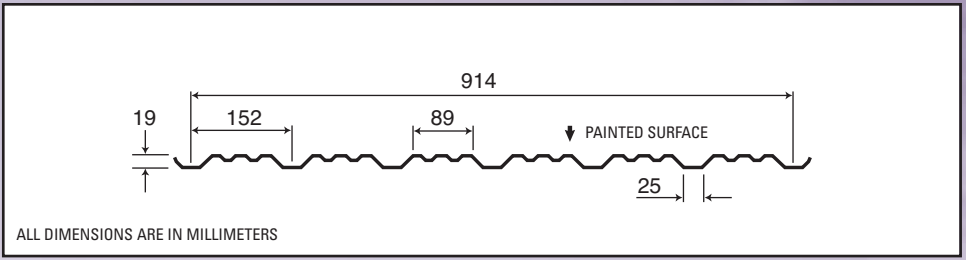
Span		1-Span Base Steel Thickness (in.)					2-Span Base Steel Thickness (in.)					3-Span Base Steel Thickness (in.)				
(ft.)		0.0120	0.0135	0.0180	0.0240		0.0120	0.0135	0.0180	0.0240		0.0120	0.0135	0.0180	0.0240	
1′-4″	S	161	314	288	397		176	351	303	438		220	438	379	547	
	D	480	502	892	1316		1153	1205	2140	3159		908	949	1685	2487	
1′-8″	S	103	201	184	254		113	224	194	280		141	280	242	350	
	D	246	257	457	674		590	617	1096	1617		465	486	863	1274	
2′-0″	S	72	140	128	176		78	156	135	194		98	195	168	243	
	D	142	149	264	390		342	357	634	936		269	281	499	737	
2′-6″	S	46	89	82	113		50	100	86	124		63	125	108	156	
	D	73	76	135	200		175	183	325	479		138	144	256	377	
3′-0″	S	32	62	57	78		35	69	60	86		43	87	75	108	
	D	42	44	78	116		101	106	188	277		80	83	148	218	
3′-6″	S	23	46	42	58		26	51	44	64		32	64	55	79	
	D	27	28	49	73		64	67	118	175		50	52	93	138	
4′-0″	S	18	35	32	44		20	39	34	49		24	49	42	61	
	D	18	19	33	49		43	45	79	117		34	35	62	92	
4′-6″	S	14	28	25	35		15	31	27	38		19	38	33	48	
	D	12	13	23	34		30	31	56	82		24	25	44	65	
5′-0″	S			20	28		13	25	22	31		16	31	27	39	
	D			17	25		22	23	41	60		17	18	32	47	
5′-6″	S			17	23		10	21	18	26		13	26	22	32	
	D			13	19		16	17	30	45		13	14	24	35	
6′-0″	S				20			17	15	22			22	19	27	
	D				14			13	23	35			10	18	27	
6′-6″	S				17			15	13	18				16	23	
	D				11			10	18	27				15	21	
7′-0″	S								11	16				14	20	
	D								15	22				12	17	

Notes:

1. Steel conforms to ASTM A653.
2. Section properties are in accordance with CSA-S136-07.
3. Values in row "S" are based on strength.
4. Values in row "D" are based on a deflection limit of 1/180 of the span.
5. Web crippling not included in strength values. See example calculation in notes to designer.
6. Contact the sales department for stocked colours and gauges.
7. The load table contained on this data sheet was prepared by Dr. R.M. Schuster P.Eng. Professor Emeritus of Structural Engineering, University of Waterloo, Ontario, Canada.

METRIC

DR6-75 Wall Cladding and Liner Panel



ALL DIMENSIONS ARE IN MILLIMETERS

Section Properties (Per Metre of Width)

Base Steel Thickness	Mass Z275	Yield Stress	Section Modulus		Deflection Moment of Inertia	Specified Web Crippling Data (kN)			
			Mid Span	Support		End	End	Interior	Interior
(mm)	(kg/m^2)	(MPa)	($x10^3 mm^3$)	($x10^3 mm^3$)	Mid Span ($x10^6 mm^4$)	P_{e1}	P_{e2}	P_{i1}	P_{i2}
0.305	3.11	230	1.09	1.19	0.0133	0.322	0.081	0.642	0.109
0.343	3.46	550	1.12	1.25	0.0140	0.782	0.196	1.55	0.264
0.457	4.52	230	1.94	2.04	0.0248	0.780	0.195	1.53	0.261
0.610	5.94	230	2.68	2.96	0.0366	1.45	0.361	2.82	0.480

Load Table

Live Load Factor = 1.4; Importance Factor ($I_{W\text{-}SLS}$) = 0.75; Importance Factor ($I_{W\text{-}ULS}$) = 1.0

Maximum Specified Uniformly Distributed Loads in kPa

Span		1-Span Base Steel Thickness (mm)				2-Span Base Steel Thickness (mm)				3-Span Base Steel Thickness (mm)			
(mm)		0.305	0.343	0.457	0.610	0.305	0.343	0.457	0.610	0.305	0.343	0.457	0.610
400	S	8.03	15.5	14.4	19.8	8.78	17.3	15.1	21.9	11.0	21.6	18.9	27.3
	D	24.1	25.2	44.7	66.0	57.8	60.5	107	158	45.5	47.7	84.5	125
500	S	5.14	9.92	9.19	12.7	5.62	11.1	9.67	14.0	7.02	13.8	12.1	17.5
	D	12.3	12.9	22.9	33.8	29.6	31.0	54.9	81.1	23.3	24.4	43.2	63.8
600	S	3.57	6.89	6.38	8.80	3.90	7.69	6.72	9.72	4.88	9.61	8.40	12.2
	D	7.13	7.47	13.2	19.6	17.1	17.9	31.8	46.9	13.5	14.1	25.0	36.9
800	S	2.01	3.88	3.59	4.95	2.20	4.32	3.78	5.47	2.74	5.40	4.72	6.83
	D	3.01	3.15	5.59	8.25	7.22	7.57	13.4	19.8	5.69	5.96	10.6	15.6
1000	S	1.28	2.48	2.30	3.17	1.40	2.77	2.42	3.50	1.76	3.46	3.02	4.37
	D	1.54	1.61	2.86	4.22	3.70	3.87	6.86	10.1	2.91	3.05	5.41	7.98
1200	S	0.89	1.72	1.60	2.20	0.98	1.92	1.68	2.43	1.22	2.40	2.10	3.04
	D	0.89	0.93	1.66	2.44	2.14	2.24	3.97	5.86	1.68	1.77	3.13	4.62
1400	S	0.66	1.27	1.17	1.62	0.72	1.41	1.23	1.78	0.90	1.76	1.54	2.23
	D	0.56	0.59	1.04	1.54	1.35	1.41	2.50	3.69	1.06	1.11	1.97	2.91
1500	S			1.02	1.41	0.62	1.23	1.07	1.55	0.78	1.54	1.34	1.94
	D			0.85	1.25	1.10	1.15	2.03	3.00	0.86	0.90	1.60	2.36
1600	S			0.90	1.24	0.55	1.08	0.94	1.37	0.69	1.35	1.18	1.71
	D			0.70	1.03	0.90	0.95	1.68	2.47	0.71	0.74	1.32	1.95
1800	S				0.98		0.85	0.75	1.08		1.07	0.93	1.35
	D				0.72		0.66	1.18	1.74		0.52	0.93	1.37

Notes:

1. Steel conforms to ASTM A653M.
2. Section properties are in accordance with CSA-S136-07.
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