WESTMAN STEEL
STATEMENTS IN STEEL™

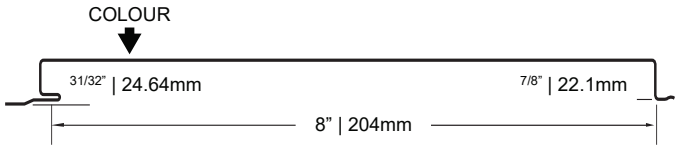
Imperial | Load Table
WS200 Wall Cladding Profile

05.28.21

westmansteel.com

1. Based on ASTM A 653 structural steel.
2. Values in row “S” are based on strength.
3. Values in row “D” are based on deflection of 1/180th span.
4. Web crippling not included in strength calculation. See example.
5. Limit States Design principles were used in accordance with CSA Standard S136-16.

LIMIT STATES DESIGN



SECTION PROPERTIES | Per Foot of Width

Base Steel Thickness (in.)	Weight [G90] (psf)	Yield Stress (ksi)	Section Modulus		Deflection Moment of Inertia (in^4)	Specified Web Crippling Data			
			Midspan (in^3)	Support (in^3)		Pe1 End (lb)	Pe2 End (lb)	Pi1 Interior (lb)	Pi2 Interior (lb)
0.0240	1.53	33	0.0511	0.0573	0.0364				
0.0300	1.89	33	0.0728	0.0745	0.0484				

LLF = 1.40; IMPF = 0.75; NORMAL OCCUPANCY = 1.0

LOAD TABLE | Maximum Uniformly Distributed Specified Loads (psf).

Span Length (ft)		1-Span Base Steel Thickness (in.)						2-Span Base Steel Thickness (in.)						3-Span Base Steel Thickness (in.)					
		0.0240	0.0300					0.0240	0.0300					0.0240	0.0300				
Y.S.* (ksi)		33	33					33	33					33	33				
4.0	S	45	64					51	66					63	82				
4.0	D	66	88					132	176					119	158				
4.5	S	36	51					40	52					50	65				
4.5	D	46	62					93	124					84	111				
5.0	S	29	41					32	42					41	53				
5.0	D	34	45					68	90					61	81				
5.5	S	24	34					27	35					33	44				
5.5	D	25	34					51	68					46	61				
6.0	S	20	29					23	29					28	37				
6.0	D	20	26					39	52					35	47				
6.5	S	17	24					19	25					24	31				
6.5	D	15	20					31	41					28	37				
7.0	S	15	21					17	22					21	27				
7.0	D	12	16					25	33					22	30				
7.5	S	13	18					14	19					18	23				
7.5	D	10	13					20	27					18	24				
8.0	S		16					13	16					16	21				
8.0	D		11					17	22					15	20				

* Y.S. = Yield Stress

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WESTMAN STEEL
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Metric | Load Table
WS200 Wall Cladding Profile

05.28.21

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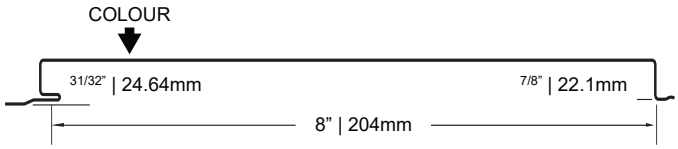
3. Values in row “D” are based on deflection of 1/180th span.
4. Web crippling not included in strength calculation. See example.
5. Limit States Design principles were used in accordance with CSA Standard S136-16.

LIMIT STATES DESIGN



SECTION PROPERTIES | Per Metre of Width

Base Steel Thickness (mm)	Mass [Z275] (kg/m²)	Yield Stress (MPa)	Section Modulus		Deflection Moment of Inertia (x10⁶ mm⁴)	Specified Web Crippling Data			
			Midspan (x10³ mm³)	Support (x10³ mm³)		Pe1 End (kN)	Pe2 End (kN)	Pi1 Interior (kN)	Pi2 Interior (kN)
0.610	7.47	230	2.75	3.08	0.0497				
0.762	9.23	230	3.91	4.01	0.0661				

LLF = 1.40; IMPF = 0.75; NORMAL OCCUPANCY = 1.0

LOAD TABLE | Maximum Uniformly Distributed Specified Loads (kPa).

Span Length (m)		1-Span Base Steel Thickness (mm)						2-Span Base Steel Thickness (mm)						3-Span Base Steel Thickness (mm)					
		0.610	0.762					0.610	0.762					0.610	0.762				
Y.S.* (MPa)		230	230					230	230					230	230				
1.0	S	2.23	3.18					2.50	3.25					3.13	4.07				
1.0	D	3.32	4.42					6.64	8.83					5.98	7.95				
1.2	S	1.64	2.34					1.84	2.39					2.30	2.99				
1.2	D	2.09	2.78					4.18	5.56					3.77	5.01				
1.4	S	1.26	1.79					1.41	1.83					1.76	2.29				
1.4	D	1.40	1.86					2.80	3.73					2.52	3.35				
1.6	S	0.99	1.41					1.11	1.45					1.39	1.81				
1.6	D	0.98	1.31					1.97	2.62					1.77	2.36				
1.8	S	0.80	1.14					0.90	1.17					1.13	1.46				
1.8	D	0.72	0.95					1.44	1.91					1.29	1.72				
2.0	S	0.66	0.95					0.74	0.97					0.93	1.21				
2.0	D	0.54	0.72					1.08	1.43					0.97	1.29				
2.2	S		0.80					0.63	0.81					0.78	1.02				
2.2	D		0.55					0.83	1.10					0.75	0.99				
2.4	S							0.53	0.69					0.67	0.87				
2.4	D							0.65	0.87					0.59	0.78				
2.6	S																		
2.6	D																		
2.8																			
2.8																			

* Y.S. = Yield Stress