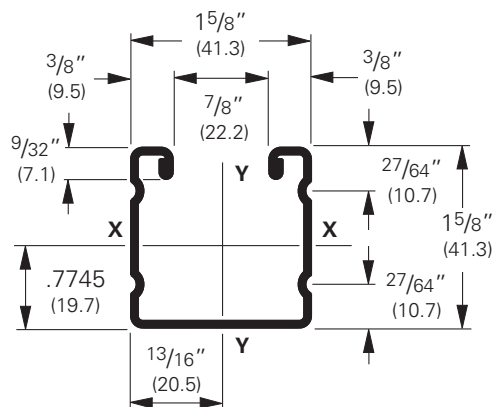
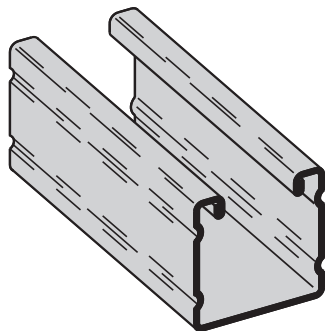


B26 Channel & Combinations

B26

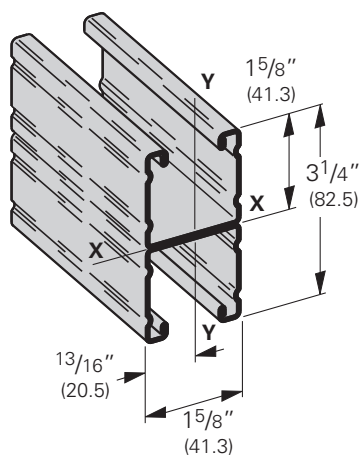
- Thickness: 16 Gauge (1.5 mm)
- Standard lengths: 10' (3.05 m) & 20' (6.09 m)
- Standard finishes: Plain, DURA GREEN™, Pre-Galvanized
- Weight: 1.12 Lbs./Ft. (1.66 kg/m)



Section Properties

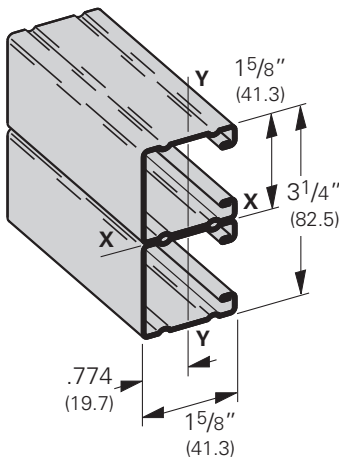
Section Properties				X - X Axis						Y - Y Axis						
Channel	Weight		Areas of Section		Moment of Inertia (I)		Section Modulus (S)		Radius of Gyration (r)		Moment of Inertia (I)		Section Modulus (S)		Radius of Gyration (r)	
	lbs./ft.	kg/m	sq. in.	cm ²	in. ⁴	cm ⁴	in. ³	cm ³	in.	cm	in. ⁴	cm ⁴	in. ³	cm ³	in.	cm
B26	1.234	(1.84)	.363	(2.34)	.1337	(5.57)	.1581	(2.59)	.607	(1.54)	.1564	(6.51)	.1925	(3.15)	.656	(1.67)
B26A	2.467	(3.67)	.726	(4.68)	.7086	(29.49)	.4361	(7.15)	.988	(2.51)	.3128	(13.02)	.3850	(6.31)	.656	(1.67)

Calculations of section properties are based on metal thicknesses as determined by the AISI Cold-Formed Steel Design Manual.



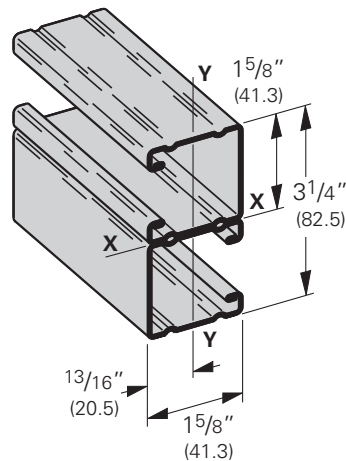
B26A

Wt. 2.24 Lbs./Ft. (3.33 kg/m)



B26B

Wt. 2.24 Lbs./Ft. (3.33 kg/m)



B26C

Wt. 2.24 Lbs./Ft. (3.33 kg/m)

B26 Beam & Column Loading Data

Beam Loading

Beam Span In. mm	Channel Style	Uniform Load and Deflection				Uniform Load @ Deflection =			
		Lbs. kN		In. mm		1/240 Span		1/360 Span	
						Lbs. kN		Lbs. kN	
12 (305)	B26	1220 (5.43)		.014 (.35)		1220 (5.43)		1220 (5.43)	
	B26A	1220* (5.43)		.001 (.02)		1220* (5.43)		1220* (5.43)	
24 (609)	B26	1163 (5.17)		.057 (1.45)		1163 (5.17)		1163 (5.17)	
	B26A	1220* (5.43)		.012 (.30)		1220* (5.43)		1220* (5.43)	
36 (914)	B26	775 (3.45)		.128 (3.25)		775 (3.45)		603 (2.68)	
	B26A	1220* (5.43)		.040 (1.01)		1220* (5.43)		1220* (5.43)	
48 (1219)	B26	581 (2.58)		.228 (5.79)		509 (2.264)		339 (1.51)	
	B26A	1220* (5.43)		.096 (2.44)		1220* (5.43)		1220* (5.43)	
60 (1524)	B26	465 (2.07)		.357 (9.07)		326 (1.45)		217 (0.96)	
	B26A	1220* (5.43)		.188 (4.77)		1220* (5.43)		1076 (4.78)	
72 (1829)	B26	388 (1.72)		.514 (13.05)		226 (1.45)		151 (0.96)	
	B26A	1052 (4.68)		.281 (7.14)		1052 (4.68)		747 (3.32)	
84 (2133)	B26	332 (1.48)		.699 (17.75)		166 (0.74)		111 (0.49)	
	B26A	902 (4.01)		.383 (9.73)		824 (3.66)		549 (2.44)	
96 (2438)	B26	291 (1.29)		.913 (23.19)		127 (0.56)		85 (0.38)	
	B26A	789 (3.51)		.500 (12.70)		631 (2.81)		420 (1.87)	
108 (2743)	B26	258 (1.15)		1.156 (29.36)		101 (0.45)		67 (0.30)	
	B26A	702 (3.12)		.633 (16.08)		498 (2.21)		332 (1.48)	
120 (3048)	B26	233 (1.03)		1.427 (36.24)		81 (0.36)		54 (0.24)	
	B26A	631 (2.17)		.782 (19.86)		404 (1.80)		269 (1.19)	

Based on simple beam condition using an allowable design stress of 25,000 psi (172 MPa) in accordance with MFMA, with adequate lateral bracing (see page 12 for further explanation). Actual yield point of cold rolled steel is 42,000 psi. To determine concentrated load capacity at mid span, multiply uniform load by 0.5 and corresponding deflection by 0.8. *Failure determined by weld shear.

Column Loading

Unbraced Height In. mm	Channel Style	Max. Column Loading K = .80				Max. Column Loading (Loaded @ C.G.)					
		Loaded@ C.G.		Loaded@ Slot Face		K = .65		K = 1.0		K = 1.2	
		Lbs. kN		Lbs. kN		Lbs. kN		Lbs. kN		Lbs. kN	
12 (305)	B26	4002 (17.80)		2216 (9.86)		4032 (17.93)		3952 (17.58)		3891 (17.31)	
	B26A	8151 (36.26)		3630 (16.15)		8163 (36.31)		8133 (36.18)		8109 (36.07)	
24 (609)	B26	3740 (16.63)		2109 (9.38)		3857 (17.16)		3554 (15.81)		3336 (14.84)	
	B26A	8051 (35.81)		3591 (15.97)		8096 (36.01)		7975 (35.47)		7883 (35.06)	
36 (914)	B26	3336 (14.49)		1941 (8.63)		3579 (15.92)		2962 (13.17)		2546 (11.32)	
	B26A	7883 (35.06)		3528 (15.69)		7986 (35.52)		7713 (34.31)		7505 (33.38)	
48 (1219)	B26	2828 (12.58)		1725 (7.61)		3217 (14.31)		2251 (10.01)		1705 (7.58)	
	B26A	7648 (34.02)		3441 (15.30)		7831 (34.83)		7346 (32.67)		6977 (31.03)	
60 (1524)	B26	2251 (10.01)		1469 (6.53)		2793 (12.42)		1603 (7.13)		1233 (5.48)	
	B26A	7346 (32.67)		3066 (13.64)		7631 (33.94)		6874 (30.58)		6298 (28.01)	
72 (1829)	B26	1705 (7.58)		1203 (5.35)		2326 (10.34)		1233 (5.48)		967 (4.30)	
	B26A	6977 (31.03)		2385 (10.61)		7388 (32.86)		6298 (28.01)		5467 (24.32)	
84 (2133)	B26	1358 (6.04)		1011 (4.50)		1851 (8.23)		1003 (4.46)		797 (3.54)	
	B26A	6541 (29.09)		1884 (8.38)		7100 (31.58)		5616 (24.98)		4486 (19.95)	
96 (2438)	B26	1129 (5.02)		871 (3.87)		1513 (6.73)		847 (3.77)		680 (3.02)	
	B26A	6038 (26.86)		1512 (6.72)		6767 (30.10)		4830 (21.48)		3463 (15.40)	
108 (2743)	B26	967 (4.30)		766 (3.41)		1277 (5.68)		734 (3.26)		592** (2.63)	
	B26A	5467 (24.32)		1231 (5.47)		6391 (28.43)		3940 (17.52)		2736 (12.17)	
120 (3048)	B26	847 (3.77)		684 (3.04)		1105 (4.91)		648 (2.88)		523** (2.32)	
	B26A	4830 (21.48)		1015 (4.51)		5970 (26.55)		3192 (14.20)		2216** (9.86)	

**Where the slenderness ratio $\frac{KL}{r}$ exceeds 200, and K = end fixity factor, L = actual length and r = radius of gyration.

Reference page 15 for general fitting and standard finish specifications.