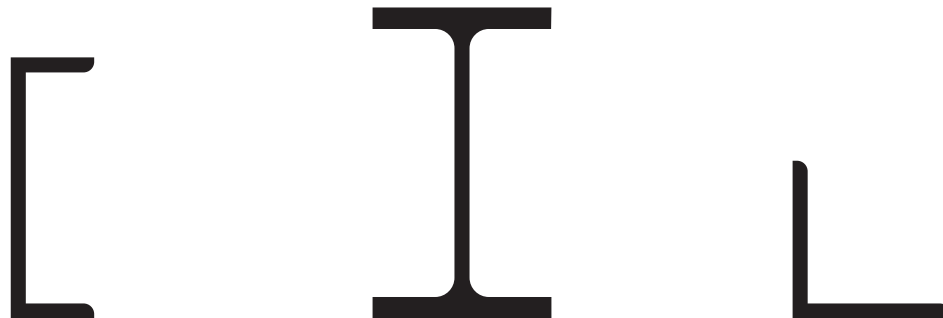




8 Woodhollow Road, Parsippany, NJ 07054
 Phone: 973-428-6100 Fax: 973-428-7399
 engineering@skylinesteel.com
 www.skylinesteel.com

Technical Hotline: 1-866-8Skyline (1-866-875-9546)

Structurals



BEAM Available Steel Grades

AMERICAN			CANADIAN			EUROPEAN*		
ASTM	YIELD STRENGTH		CSA G40.21	YIELD STRENGTH		EN 10025 & EN 10113	YIELD STRENGTH	
	(ksi)	(MPa)		(ksi)	(MPa)		(ksi)	(MPa)
A 36	36	240	Grade 350 W	50	350	S 235	34	235
A 572 Grade 50	50	345				S 275	40	275
A 588	50	345				S 355	51	355
A 709	50	345				S 460 HISTAR	67	460
A 913	50	345						
A 913	65	450						
A 992	50	345						

*HISTAR only available in some sizes

Delivery Conditions & Tolerances

Mass:	± 2.5%	
Depth:	± 0.125 inches	
Length:	30 feet and Under	Over 30 feet
Beams W 24 and Under	± 0.375 inches	+ (0.375 in + (Length - 30) / 80) - 0.375 inches
Beams Over W 24	± 0.5 inches	+ (0.5 in + (Length - 30) / 80) - 0.375 inches
Flanges out of Square:	≤ 0.25 inches	
Beams W 12 and Under	≤ 0.3125 inches	
Beams Over W 12	≤ 0.1875 inches	
Web off Center:	≤ 0.25 inches	
Greatest Depth over Theoretical:	(0.125 in) * (Length / 10)	
Camber and Sweep:		
Camber and Sweep for Columns: ...		
45 Feet and Under	(0.125 in) * (Length / 10) but not over 0.375 inches	
Over 45 Feet	(0.375 in) + (0.125 in * (Length - 45) / 10)	

* W 8 x 31 and heavier, W 10 x 49 and heavier, W 12 x 65 and heavier, and W 14 x 90 and heavier order as columns.
 If other sections are ordered as columns, the tolerances are subject to negotiation with manufacturer.

CHANNEL Available Steel Grades

AMERICAN			CANADIAN			EUROPEAN		
ASTM	YIELD STRENGTH		CSA G40.21	YIELD STRENGTH		EN 10248	YIELD STRENGTH	
	(ksi)	(MPa)		(ksi)	(MPa)		(ksi)	(MPa)
A 36	36	205	Grade 350 W	50	350	S 235	34	235
A 572 Grade 50	50	240				S 355	51	355
A 572 Grade 60	50	345						
A 588	50	345						
A 242	50	345						

Delivery Conditions & Tolerances

Mass:	± 2.5%						
Depth:	3 to 7 in		7 to 14 in		Over 14 in		
	+ 0.9375 in	- 0.0625 in	+ 0.125 in	- 0.09375 in	+ 0.1875 in	- 0.125 in	
Length:	5 to 10 ft	10 to 20 ft	20 to 30 ft	30 to 40 ft	40 to 50 ft	50 to 65 ft	
	+ 1.0 in	+ 1.5 in	+ 1.75 in	+ 2.25 in	+ 2.75 in	+ 2.75 in	
Flange Width:	3 to 7 in		7 to 14 in		Over 14 in		
	± 0.125 in		+ 0.125 in	- 0.9375 in	+ 0.125 in	- 0.1875 in	
Flanges out of Square:	≤ 0.03125 in						
Camber:	(0.125 in)* (Length / 5)						
Sweep:	Subject to negotiation with manufacturer						

ANGLE Available Steel Grades

AMERICAN			CANADIAN			EUROPEAN		
ASTM	YIELD STRENGTH		CSA G40.21	YIELD STRENGTH		EN 10248	YIELD STRENGTH	
	(ksi)	(MPa)		(ksi)	(MPa)		(ksi)	(MPa)
A 36	36	205	Grade 350 W	50	350	S 235	34	235
A 572 Grade 50	50	240				S 355	51	355
A 572 Grade 60	50	345						
A 588	50	345						
A 242	50	345						

Delivery Conditions & Tolerances

Mass:	± 2.5%						
Length:	5 to 10 ft	10 to 20 ft	20 to 30 ft	30 to 40 ft	40 to 50 ft	50 to 65 ft	
	+ 1.0 in	+ 1.5 in	+ 1.75 in	+ 2.25 in	+ 2.75 in	+ 2.75 in	
Leg Length:	1 to 2 in	2 to 3 in	3 to 4 in		4 to 6 in	Over 6 in	
	± 0.046875 in	± 0.0625 in	+ 0.125 in	- 0.09375 in	± 0.125 in	+ 0.1875 in - 0.125 in	
Flanges out of Square:	± 1.5 degrees						
Thickness:	≤ 0.1875 in	0.1875 in to 0.375 in		Over 0.375 in			
1 to 2 in.	± 0.010 in	± 0.010 in		± 0.012 in			
2 to 3 in.	± 0.012 in	± 0.015 in		± 0.015 in			
Camber:	(0.125 in)*(Length / 5)						
Sweep:	Subject to negotiation with manufacturer						
*Longer leg length determines classification							

Maximum Rolled Lengths*	All Sections:	60 feet
	Most Sections:	85 feet
	Some Sections:	120 feet
	*Inquire about Length Possibilities	