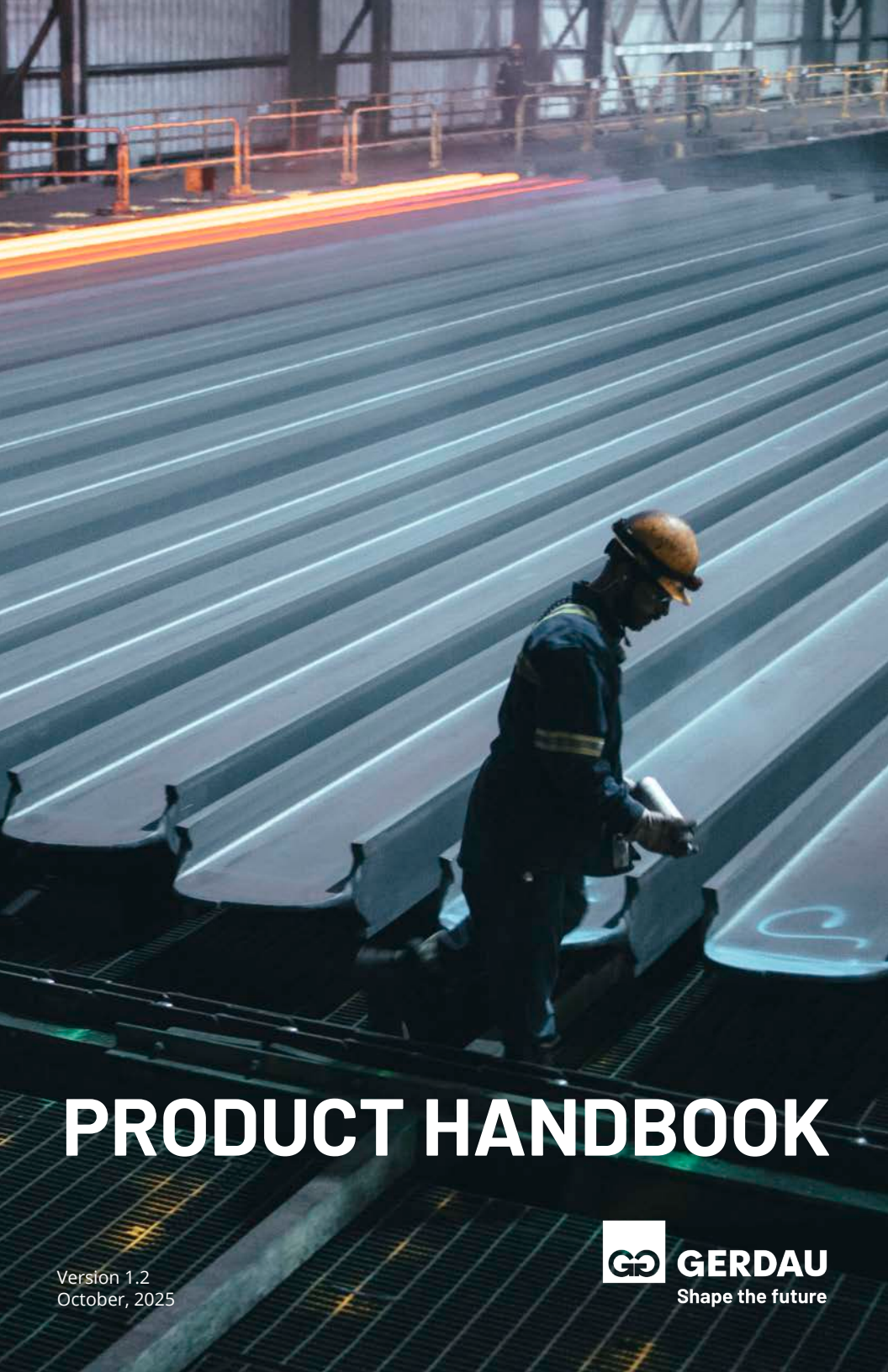




PRODUCT HANDBOOK

Version 1.2
October, 2025



GERDAU
Shape the future

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GERDAU STEEL IS SUSTAINABLE STEEL

Gerdau has made a commitment to a sustainability agenda, effectively connecting the steel production business with the purpose of empowering people who build the future, leaving a positive legacy for society.

- Our steel is amongst the cleanest in the world. 100% of the steel we produce in North America is melted in an electric arc furnace.
- Our new 80-megawatt solar farm in TX can power 14,000 households
- Our steel has greater than 96% recycled content
- 98% of the water and 93% of co-products are reused globally
- Supplying partner to the largest Wind Farm in U.S. history
- Gerdau is the first steel company in North America to achieve **B Corp** certification



GERDAU LONG STEEL NORTH AMERICA

U.S. & CANADIAN MILL PRODUCTS

							
	SQUARES	ROUNDS	ANGLES	UNEQUAL ANGLES	FLATS	CHANNELS	MC CHANNELS
Cambridge, ON	3/8 - 1 1/2	1/2 - 1 1/4	3/4 - 2	2 x 1 1/2	3/4 - 4	1 - 2 1/2	
Cartersville, GA			4 - 8	6x3 1/2 - 8x6	5 - 14	6 - 12	3 1/4 - 13
Charlotte, NC	1/2 - 1	1/2 - 1 1/4	1 - 2	2x1 1/2	3/4 - 2 1/2	2 x 1	
Jackson, TN	1 1/2 - 2	1 3/8 - 2 1/2	1 1/2 - 4	3x2 - 5x3 1/2	2 - 6	3 - 6	
Selkirk, MB	2	3/4 - 5 1/8			2 - 16		
Midlothian, TX		5/8 - 3 9/16				6 - 15	18
Petersburg, VA							18
Whitby, ON			2 - 8	2 1/2x2 - 7x4	5 - 10	3 - 12	3
Wilton, IA	1 1/16 - 2 1/2	1 1/4 - 1 3/4	1 1/4 - 3	2 1/2 x 2	1 - 6		

						
	WF BEAMS	M BEAMS	S BEAMS	H PILING	SHEET PILING	REBAR
Cambridge, ON						10M - 25M #3 - #4
Cartersville, GA	4 - 14	5, 10, 12	5			
Charlotte, NC						#4 - #11
Jackson, TN						#4 - #18
Selkirk, MB			2 3/8 - 4			
Midlothian, TX	4 - 24	4 - 12.5	3 - 12	8 - 10	PS 27.5, 31	#3 - #18
Petersburg, VA	8 - 36			10 - 16	PZC 12 - 41	
Whitby, ON						15M - 35M #4 - #11
Wilton, IA						#4 - #5

Gerdau EDI

Functionality designed to automate communication and increase ease of doing business with Gerdau EDI.

EDI (Electronic Data Interchange) allows customers to electronically exchange data with Gerdau, regardless of the computer software either organization utilizes.

WHAT ARE THE BENEFITS OF EDI?

- Save time by cutting down on manual entry
- Reduce the risk for errors
- Increase processing speeds
- Improve efficiency and savings

WHAT TRANSACTIONS CAN BE AUTOMATED THROUGH EDI?



Shipments

EDI Advanced Shipment Notice - ASN (EDI 856 / 857)

- This transaction allows Gerdau to electronically send the Bill of Lading (BOL).
- Data grouping of sent shipment data is dynamic based upon customer requirements:
 - ASNs can be sent by delivery or by overall shipment.
 - Data organization within the ASN can vary by customer: PO, Bundle, Heat, etc.

steelXML Advanced Shipment Notice

- steelXML ASN is a combination of the ASN and MTR outputs.
- Data grouping is by shipment line and includes chemistries, mechanical and Charpy tests.
- Customers receive as an email attachment using the AISC steelXML ASN format.



Purchase Orders

EDI PO Request (EDI 850)

- This transaction allows customers to electronically send Purchase Orders to Gerdau.
- Supported sales orders include:
 - Stock Order
 - Direct Ship

EDI PO Acknowledgement (EDI 855)

- This transaction allows Gerdau to electronically send sales order status.
- Customers can receive EDI PO Acks for a variety of business events:
 - EDI PO Acks upon creation of all new orders (both VMI and non-VMI).
 - EDI PO Acks both upon order creation and changes



Reports

EDI Material Test Report (EDI 863)

- This transaction allows Gerdau to electronically send the Material Test Report (MTR).
 - Allows customization of test results: chemistries, mechanical results, Jominy, Charpy tests, etc.

EDI Material Test Report (PDF)

- This transaction allows Gerdau to electronically send the normal MTR PDF file to customers.
- Optionally, a conversion to TIF image format is available.

EDI Inventory Reports (EDI 846)

- This transaction allows Gerdau to electronically send Inventory Reports.
- Inventory Reports include future v Week Dates.
- Inventory AFS can also be sent via API.



Invoicing

EDI Invoice (EDI 810)

- This transaction allows Gerdau to electronically send Invoices.



Other Transactions

EDI VMI Forecast (EDI 852)

- This transaction allows customers to participate in our Vender Managed Inventory program.
- Gerdau develops the required data points to be included in the 852 file while onboarding the customer.
- Customers may utilize all of the EDI transactions in congruence with the VMI program.

How can you implement EDI?

The first step is getting both trading partners to agree on and adhere to a set of standards for EDI transactions. Utilizing Gerdau's established standards allows for faster development time. Our technical team will work closely with your company to ensure implementation goes smoothly.

STRUCTURAL





Photo credit GMF Steel Group

GERDAU STRUCTURAL PRODUCTS IN USE

TYNDALL AIR FORCE BASE

Panama City, Florida

The Tyndall Air Force Base is located southeast of Panama City, Florida. In 2018, the base sustained a direct hit from Hurricane Michael. Tyndall was rebuilt to include resilient construction design to withstand the impacts of inclement weather.

This project was particularly challenging given the long lead time between initial design and release to production. Gerdau stayed engaged with its customer for over 18 months working on this project until it was finally awarded the steel supply. This close collaboration between mill and fabricator from the early stages of the project allowed Gerdau's customer to navigate the uncertainties associated with long lead time projects.

STRUCTURAL STEEL PRODUCTS AND BUNDLES

WIDE FLANGE BEAMS: MIDLOTHIAN, TX & PETERSBURG, VA

SHAPE	MILL	PCS/ BUNDLE
W4x13	TX	15
W6x7	TX	21
W6x7.5	TX	21
W6x8.5	TX	24
W6x9	TX	24
W6x10.4	TX	24
W6x12	TX	18
W6x15	TX	12
W6x16	TX	12
W6x20	TX	9
W6x25	TX	9
W8x10	TX	21
W8x13	TX	15
W8x15	TX	12
W8x18	TX	12
W8x21	TX	10
W8x24	TX	8
W8x28	TX	6
W8x31, 35, 40	TX, VA*	6
W8x48, 58	TX, VA*	4
W8x67	TX, VA*	3
W10x12	TX	16
W10x15	TX	14
W10x17	TX	12
W10x19	TX	10
W10x22, 26	TX	8
W10x30	TX	6
W10x33, 39	TX, VA*	6
W10x45	TX, VA*	4
W10x49, 54, 60	TX, VA	4
W10x68, 77	TX, VA	3
W10x88	TX, VA	2

SHAPE	MILL	PCS/ BUNDLE
W10x100, 112	TX, VA	2
W12x14	TX	16
W12x16	TX	14
W12x19	TX	12
W12x22	TX	10
W12x26, 30, 35	TX	6
W12x40, 45, 50	TX, VA*	4
W12x53, 58	TX, VA	4, 3
W12x65, 72	VA	4
W12x79, 87, 96	VA	2
W12x106, 120, 136, 152, 170, 190, 210	VA	1
W14x22, 26	TX	8
W14x30, 34, 38	TX	6
W14x43, 48, 53	TX, VA*	4
W14x61, 68, 74, 82	TX, VA	3
W14x90, 99, 109	VA	2
W14x120, 132	VA	1
W14x145, 159, 176, 193, 211, 233, 257	VA	1
W16x26, 31	TX, VA	6
W16x36, 40, 45	TX, VA	5
W16x50, 57	TX, VA	3
W16x67, 77	TX, VA	3
W16x89, 100	TX, VA	2
W18x35	TX, VA	6
W18x40, 46	TX, VA	5
W18x50, 55	TX, VA	4
W18x60, 65, 71	TX, VA	3
W18x76, 86, 97	VA	2
W18x106, 119, 130, 143, 158, 175, 192, 211	VA	1
W21x44, 50, 57	TX, VA	4
W21x48, 55, 62	TX	4
W21x68, 73, 83	TX	3

*Not currently produced in VA

WIDE FLANGE BEAMS: MIDLOTHIAN, TX & PETERSBURG, VA

SHAPE	MILL	PCS / BUNDLE
W21x93	TX	2
W21x101, 111, 122, 132, 147, 166, 182, 201	VA	1
W24x55, 62	TX, VA	4
W24x68, 76	TX, VA	3
W24x84, 94, 103	TX, VA	2
W24x104, 117, 131, 146, 162, 176, 192, 207	VA	1
W27x84, 94, 102, 114, 129	VA	1
W27x146, 161, 178, 194, 217, 235	VA	1
W30x90, 99, 108, 116, 124, 132, 148	VA	1
W33x118, 130, 141, 152, 169	VA	1
W36x135, 150, 160, 170, 182, 194, 210, 232, 256	VA	1

WIDE FLANGE BEAMS: CARTERSVILLE, GA

SHAPE	LENGTH	MILL	PCS / BUNDLE
W4x13	20', 40'	GA	18
W4x13	25', 30', 35'	GA	21
W4x13	45', 50'	GA	15
W4x13	55'	GA	13
W4x13	60'	GA	12
W6x7	20', 30', 35', 40', 50', 60'	GA	21
W6x7	45' 55'	GA	12
W6x8.5	20', 25', 30', 40', 45', 50', 55'	GA	21
W6x8.5	35'	GA	24
W6x8.5	60'	GA	18
W6x9	20', 25'	GA	27
W6x9	30', 35'	GA	30
W6x9	40', 50'	GA	21
W6x9	45'	GA	24
W6x9	55', 60'	GA	18
W6x12	20', 35'	GA	21

WIDE FLANGE BEAMS: CARTERSVILLE, GA

SHAPE	LENGTH	MILL	PCS / BUNDLE
W6x12	25'	GA	33
W6x12	30'	GA	27
W6x12	40', 45'	GA	18
W6x12	50'	GA	16
W6x12	55'	GA	14
W6x12	60'	GA	12
W6x15	20', 30', 40'	GA	15
W6x15	25', 45', 50', 55'	GA	12
W6x15	60'	GA	10
W6x15	65'	GA	9
W6x16	20', 35', 40'	GA	15
W6x16	30'	GA	18
W6x16	45', 50'	GA	12
W6x16	55', 60'	GA	10
W6x20	20', 35', 40'	GA	12
W6x20	25', 30'	GA	15
W6x20	45', 50'	GA	9
W6x20	55', 60'	GA	8
W6x20	65'	GA	6
W6x25	20', 25', 35'	GA	9
W6x25	30'	GA	12
W6x25	40'	GA	10
W6x25	45', 50'	GA	8
W6x25	60'	GA	6
W8x10	20', 25', 30', 35', 40', 45'	GA	20
W8x10	50', 55'	GA	18
W8x10	60'	GA	16
W8x13	20', 40'	GA	18
W8x13	25', 30', 35'	GA	20
W8x13	45'	GA	16
W8x13	50'	GA	14
W8x13	55', 60'	GA	10
W8x15	20', 40'	GA	16

WIDE FLANGE BEAMS: CARTERSVILLE, GA

SHAPE	LENGTH	MILL	PCS / BUNDLE
W8x15	25', 30'	GA	20
W8x15	35'	GA	18
W8x15	45'	GA	14
W8x15	50'	GA	12
W8x15	55', 60', 65'	GA	10
W8x18	20', 35'	GA	14
W8x18	25', 50', 55'	GA	10
W8x18	30'	GA	16
W8x18	40', 45'	GA	12
W8x18	50', 55'	GA	10
W8x18	60', 65'	GA	8
W8x21	20'	GA	12
W8x21	25', 40', 45'	GA	10
W8x21	30'	GA	14
W8x21	50'	GA	8
W8x21	55', 60', 65'	GA	7
W8x24	20', 35', 40'	GA	10
W8x24	25', 30'	GA	12
W8x24	45', 50'	GA	8
W8x24	55' 60', 65'	GA	6
W8x28	20', 35', 40'	GA	8
W8x28	25', 45', 50', 55'	GA	6
W8x28	30'	GA	10
W8x28	60', 65'	GA	5
W8x31, 35, 40	20', 25', 30', 35', 40', 45, 50', 55', 60', 65'	GA	6
W8x48, 58	20', 25', 30', 35', 40', 45, 50', 55', 60', 65'	GA	4
W8x67	20', 25', 30', 35', 40', 45, 50', 55', 60', 65'	GA	3
W10x12	20', 30', 35', 40'	GA	20
W10x12	45'	GA	18
W10x12	25', 50'	GA	16
W10x12	55', 60'	GA	10
W10x15	20', 40'	GA	16
W10x15	25', 30'	GA	20

WIDE FLANGE BEAMS: CARTERSVILLE, GA

SHAPE	LENGTH	MILL	PCS / BUNDLE
W10x15	35'	GA	18
W10x15	45'	GA	14
W10x15	50'	GA	12
W10x15	55', 60'	GA	10
W10x17	20', 40'	GA	14
W10x17	25', 30'	GA	18
W10x17	35'	GA	16
W10x17	45'	GA	12
W10x17	50', 55'	GA	10
W10x17	60', 65'	GA	8
W10x19	20', 40'	GA	12
W10x19	25' 45', 50'	GA	10
W10x19	35'	GA	14
W10x19	55', 60'	GA	8
W10x22	20', 40', 45'	GA	10
W10x22	25'	GA	8
W10x22	30'	GA	14
W10x22	35'	GA	12
W10x22	50', 55', 60'	GA	7
W10x22	65'	GA	6
W10x26	20', 35'	GA	10
W10x26	25', 30'	GA	12
W10x26	40', 45'	GA	8
W10x26	50'	GA	7
W10x26	55', 60'	GA	6
W10x26	65'	GA	5
W10x30	20' 25', 35'	GA	8
W10x30	30'	GA	10
W10x30	40', 45'	GA	7
W10x30	50', 55'	GA	6
W10x30	60', 65'	GA	5
W10x33, 39	20', 25', 30', 35', 40', 45', 50', 55', 60', 65'	GA	6
W10x45	20', 25', 30', 35', 40', 45', 50', 55', 60', 65'	GA	4

WIDE FLANGE BEAMS: CARTERSVILLE, GA

SHAPE	LENGTH	MILL	PCS / BUNDLE
W12x14	20'	GA	18
W12x14	25', 45', 50'	GA	14
W12x14	30', 35'	GA	20
W12x14	40'	GA	16
W12x14	55', 60', 65	GA	10
W12x16	20', 35'	GA	16
W12x16	25', 45'	GA	12
W12x16	30'	GA	18
W12x16	40'	GA	14
W12x16	50', 55', 60'	GA	10
W12x19	20', 40'	GA	12
W12x19	25', 45', 50'	GA	10
W12x19	30'	GA	16
W12x19	35'	GA	14
W12x19	55', 60', 65'	GA	8
W12x22	20', 40', 45'	GA	10
W12x22	25', 50', 55'	GA	8
W12x22	30'	GA	14
W12x22	35'	GA	12
W12x22	60'	GA	7
W12x22	65'	GA	6
W12x26	20', 25', 35'	GA	10
W12x26	30'	GA	12
W12x26	40', 45'	GA	8
W12x26	50', 55', 60'	GA	6
W12x26	65'	GA	5
W12x30	20', 35', 40	GA	8
W12x30	25', 30'	GA	10
W12x30	45', 50', 55'	GA	6
W12x30	60', 65'	GA	5
W12x35	20', 25', 40', 45'	GA	6
W12x35	30', 35'	GA	8
W12x35	50', 55'	GA	5

WIDE FLANGE BEAMS: CARTERSVILLE, GA

SHAPE	LENGTH	MILL	PCS / BUNDLE
W12x35	60', 65'	GA	4
W12x40, 45, 50	20', 25', 30', 35', 40', 45', 50', 55', 60', 65'	GA	4
W14x22	20', 25', 30', 35', 40', 45', 50', 55'	GA	8
W14x22	60'	GA	7
W14x22	65'	GA	6
W14x26	20', 25', 30', 35', 40', 45'	GA	8
W14x26	50'	GA	7
W14x26	55', 60'	GA	6
W14x26	65'	GA	5
W14x30	20', 25', 30', 35', 40', 45', 50', 55'	GA	6
W14x30	60'	GA	5
W14x34	20', 30', 35', 40', 45'	GA	6
W14x34	50', 55'	GA	5
W14x34	60'	GA	4
W14x38	20', 30', 35', 40'	GA	6
W14x38	55', 60', 65'	GA	4
W14x38	45', 50'	GA	5
W14x43, 48, 53	20', 25', 30', 40', 45', 50', 60', 65'	GA	4

STANDARD BEAMS: CARTERSVILLE, GA

SHAPE	LENGTH	MILL	PCS / BUNDLE
S5x7.2	20', 40'	GA	33
S5x10	20', 30', 35', 40'	GA	24
S5x10	45'	GA	21
S5x10	50'	GA	18
S5x10	60'	GA	15

STANDARD BEAMS: MIDLOTHIAN, TX

SHAPE	MILL	PCS / BUNDLE
S3x5.7	TX	36
S3x7.5	TX	28
S4x7.7	TX	28
S4X9.25	TX	20
S4x9.5	TX	20
S5X10	TX	21
S6x12.5	TX	15
S6x17.25	TX	12
S8x18.4	TX	10
S8x23	TX	8
S10x25.4	TX	8
S10x35	TX	6
S12x31.8	TX	6

MISCELLANEOUS BEAMS: MIDLOTHIAN, TX

SHAPE	MILL	PCS / BUNDLE
M8x6.5	TX	24
M10x8	TX	18
M10x9	TX	16
M12x10.8	TX	12
M12x11.8	TX	12
M12.5x10.8	TX	12
M12.5x11.6	TX	12
M12.5x12.4	TX	12

W SHAPE CAPABILITY

AISC Blocks	Beam Sizes by Block												
W4x4	W4X13												
W6x4	W6x4	W6x7	W6x7.5	W6x8.5	W6x9	W6x10.4	W6x12	W6x16					
W6x6	W6X15	W6X20	W6X25										
W8x4	W8X10	W8X13	W8X15										
W8x5¼	W8X18	W8X21											
W8x6½	W8X24	W8X28											
W8x8	W8X31	W8X35	W8X40	W8X48	W8X58	W8X67							
W10x4	W10X12	W10X15	W10X17	W10X19									
W10x5¼	W10X22	W10X26	W10X30										
W10x8	W10X33	W10X39	W10X45										
W10x10	W10X49	W10X54	W10X60	W10X68	W10X77	W10X88	W10X100	W10X112					
W12x4	W12X14	W12X16	W12X19	W12X22									
W12x6½	W12X26	W12X30	W12X35										
W12x8	W12X40	W12X45	W12X50										
W12x10	W12X53	W12X58											
W12x12	W12X65	W12X72	W12X79	W12X87	W12x96	W12X106	W12X120	W12X136	W12X152	W12X170	W12X190	W12X210	
W14x5	W14X22	W14X26											
W14x6¾	W14X30	W14X34	W14X38										
W14x8	W14X43	W14X48	W14X53										
W14x10	W14X61	W14X68	W14X74	W14X82									
W14x14½	W14X90	W14X99	W14X109	W14X120	W14X132								
W14x16	W14X145	W14X159	W14X176	W14X193	W14X211	W14X233	W14X257						
W16x5½	W16X26	W16X31											
W16x7	W16X36	W16X40	W16X45	W16X50	W16X57								
W16x10¼	W16X67	W16X77	W16X89	W16X100									
W18x6	W18X35	W18X40	W18X46										
W18x7½	W18X50	W18X55	W18X60	W18X65	W18X71								
W18x11	W18X76	W18X86	W18X97	W18X106	W18X119	W18X130	W18X143	W18X158	W18X175	W18X192	W18X211		
W21x6½	W21X44	W21X50	W21X57										
W21x8¼	W21X48	W21X55	W21X62	W21X68	W21X73	W21X83	W21X93						
W21x12¼	W21X101	W21X111	W21X122	W21X132	W21X147	W21X166	W21X182	W21X201					
W24x7	W24X55	W24X62											
W24x9	W24X68	W24X76	W24X84	W24X94	W24X103								
W24x12¾	W24X104	W24X117	W24X131	W24X146	W24X162	W24X176	W24X192	W24X207					
W27x10	W27X84	W27X94	W27X102	W27X114	W27X129								
W27x14	W27X146	W27X161	W27X178	W27X194	W27X217	W27X235							
W30x10½	W30X90	W30X99	W30X108	W30X116	W30X124	W30X132	W30X148						
W33x11½	W33X118	W33X130	W33X141	W33X152	W33X169								
W36x12	W36X135	W36X150	W36X160	W36X170	W36X182	W36X194	W36X210	W36X232	W36X256				

HIGH-STRENGTH GRADES AND SUSTAINABILITY

Grade 65 beams are becoming increasingly popular, but understanding about this product varies. Check out the most commonly asked questions our team receives below:

WHAT IS GRADE 65?

A high-strength, low-alloy steel designed for structural applications, with minimum yield strength of 65 ksi.

1. Addition of Alloys (A572-65)

Produced similarly to Grade 50 but using higher alloy content to increase strength.

PROS: Can be made in various sizes, from small to large, and is widely available.

CONS: Higher production cost, higher carbon equivalent.

2. Heat Treatment (A913)

Increase in strength is achieved by heat treating the steel directly at the rolling mill.

PROS: Reduced production costs and improved impact resistance (lower alloy).

CONS: Limited to thicker sections and fewer suppliers. Specialized welding procedure and maximum heating temperature that needs to be clearly communicated to the construction team.

CAN GRADE 65 LOWER THE EMISSIONS OF A PROJECT?

Some companies are designing with higher strength steel in effort to reduce building with and lower the carbon footprint of the structures. Higher strength steel used in column sections and heavy girders typically result in weight reduction. **However, the weight reduction if often not sufficient to lower the carbon footprint of the structure.**

The example below demonstrates why.

Grade 65 Use in Column W14x176 (A913 or A572-65) replacing W14x233 (A992 or A572-50)

The use of the 176 lb/ft column in A913 represents a 23% reduction in the weight. However, that decrease is not enough to offset the difference between the GWP of Gerdau Petersburg and the GWP of the domestic producer of A913.

Shape	Nominal Weight (lb/ft)	Yield Strength (ksi)	Cradle to Gate Mill Product	
			Plant GWP (kg CO2/m ton)	GWP / Section (Co2e/ft)
W14x176	176	65	816	0.065
W14x233	233	50	527	0.056



WIDE FLANGE BEAM DIMENSIONS

Y b _f				Web	Flange		Axis X-X				Axis Y-Y				
	Shape	Area, A (in. ² cm ²)	Depth, d (in. mm)	Thickness, t _w (in. mm)	Width, b _f (in. mm)	Thickness, t _w (in. mm)	I (in. ⁴ 10 ⁶ mm ⁴)	S (in. ³ 10 ³ mm ³)	r (in. ³ mm)	Z (in. 10 ³ mm ²)	I (in. ⁴ 10 ⁶ mm ⁴)	S (in. ³ 10 ³ mm ³)	r (in. ³ mm)	Z (in. 10 ³ mm ²)	
W4x4	W4 x 13	3.83	4.16	0.280	4.06	0.345	11.3	5.46	1.72	6.28	3.86	1.9	1.0	2.92	
	W100 x 19.3	2,470	106	7.11	103	8.76	4.7	89.5	43.7	103	1.61	31.1	25.4	47.9	
W6x4	7	2.1	5.8	0.1	3.9	0.2	12.3	4.3	2.4	4.7	1.6	0.8	0.9	1.3	
	10.4	1335.5	147	3.4	99	4.1	5.1	69.6	62.0	77.5	0.7	13.4	22.3	20.6	
	7.5	2.3	5.8	0.2	3.9	0.2	13.7	4.7	2.4	5.3	1.8	0.9	0.9	1.4	
	11.2	1477.4	148	3.8	100	4.5	5.1	77.0	62.0	86.0	0.7	14.9	22.4	22.9	
	8.5	2.52	5.83	0.17	3.94	0.195	14.9	5.1	2.43	5.73	1.99	1.01	0.89	1.56	
	13	1,630	148	4.32	100	5.0	6.2	83.6	61.7	93.9	0.828	16.6	22.6	25.6	
	9	2.68	5.9	0.17	3.94	0.215	16.4	5.56	2.47	6.23	2.2	1.11	0.905	1.72	
	13.5	1,730	150	4.32	100	5.5	6.83	91.1	62.7	102	0.916	18.2	23	28.2	
	10.4	3.1	6.0	0.2	4.0	0.2	19.3	6.5	2.5	7.3	2.6	1.3	0.9	2.0	
	15.5	2,019	151	5.1	101	6.3	8.0	106.2	63.0	119.8	1.1	21.3	23.1	32.9	
W6 x W150 x	12	3.55	6.03	0.23	4	0.28	22.1	7.31	2.49	8.3	2.99	1.5	0.918	2.32	
	18	2,290	153	5.84	102	7.1	9.2	120	63.2	136	1.24	24.6	23.3	38.0	
W8x6	16	4.74	6.28	0.26	4.03	0.405	32.1	10.2	2.6	11.7	4.43	2.2	0.967	3.39	
	24	3,060	160	6.6	102	10.3	13.4	167	66	192	1.84	36.1	24.6	55.6	
	15	4.43	5.99	0.23	5.99	0.26	29.1	9.72	2.56	10.8	9.32	3.11	1.45	4.75	
	22.5	2,860	152	5.84	152	6.6	12.1	159	65	177	3.88	51	36.8	77.8	
	20	5.87	6.2	0.26	6.02	0.365	41.4	13.4	2.66	14.9	13.3	4.41	1.5	6.72	
	29.8	3,790	157	6.6	153	9.27	17.2	220	67.6	246	5.54	72.3	38.1	110	
	25	7.34	6.38	0.32	6.08	0.455	53.4	16.7	2.7	18.9	17.1	5.61	1.52	8.56	
	37.1	4,740	162	8.13	154	11.6	22.2	274	68.6	310	7.12	91.9	38.6	140	
	W8x4	10	2.96	7.89	0.17	3.94	0.205	30.8	7.81	3.22	8.87	2.09	1.06	0.841	1.66
		15	1,910	200	4.32	100	5.21	12.8	128	81.8	145	0.87	17.4	21.4	27.2
13		3.84	7.99	0.23	4	0.255	39.6	9.91	3.21	11.4	2.73	1.37	0.843	2.15	
19.3		2,480	203	5.84	102	6.48	16.5	162	81.5	187	1.14	22.5	21.4	35.2	
15		4.44	8.11	0.245	4.02	0.315	48	11.8	3.29	13.6	3.41	1.7	0.876	2.67	
22.5		2,860	206	6.22	102	8	20	193	83.6	223	1.42	27.9	22.3	43.8	
W8x5½	18	5.26	8.14	0.23	5.25	0.33	61.9	15.2	3.43	17	7.97	3.04	1.23	4.66	
	26.6	3,390	207	5.84	133	8.38	25.8	249	87.1	279	3.32	49.8	31.2	76.4	
	21	6.16	8.28	0.25	5.27	0.4	75.3	18.2	3.49	20.4	9.77	3.71	1.26	5.69	
W8x6½	31.3	3,970	210	6.35	134	10.2	31.3	298	88.6	334	4.07	60.8	32	93.2	
	24	7.08	7.93	0.245	6.5	0.4	82.7	20.9	3.42	23.1	18.3	5.63	1.61	8.57	
	35.9	4,570	201	6.22	165	10.2	34.4	342	86.9	379	7.62	92.3	40.9	140	
	28	8.25	8.06	0.285	6.54	0.465	98	24.3	3.45	27.2	21.7	6.63	1.62	10.1	
	41.7	5,320	205	7.24	166	11.8	40.8	398	87.6	446	9.03	109	41.1	166	
	31	9.13	8	0.285	8	0.435	110	27.5	3.47	30.4	37.1	9.27	2.02	14.1	
W8x8	46.1	5,890	203	7.24	203	11	45.8	451	88.1	498	15.4	152	51.3	231	
	35	10.3	8.12	0.31	8.02	0.495	127	31.2	3.51	34.7	42.6	10.6	2.03	16.1	
	52	6,650	206	7.87	204	12.6	52.9	511	89.2	569	17.7	174	51.6	264	
	40	11.7	8.25	0.36	8.07	0.56	146	35.5	3.53	39.8	49.1	12.2	2.04	18.5	
	59	7,550	210	9.14	205	14.2	60.8	582	89.7	652	20.4	200	51.8	303	
	48	14.1	8.5	0.4	8.11	0.685	184	43.2	3.61	49	60.9	15	2.08	22.9	
	71	9,100	216	10.2	206	17.4	76.6	708	91.7	803	25.3	246	52.8	375	
	58	17.1	8.75	0.51	8.22	0.81	228	52	3.65	59.8	75.1	18.3	2.1	27.9	
	86	11,000	222	13	209	20.6	94.9	852	92.7	980	31.3	300	53.3	457	
	67	19.7	9	0.57	8.28	0.935	272	60.4	3.72	70.1	88.6	21.4	2.12	32.7	
	100	12,700	229	14.5	210	23.7	113	990	94.5	1,150	36.9	351	53.8	536	

WIDE FLANGE BEAM DIMENSIONS

Shape	Area, A	Depth, d	Web		Flange		Axis X-X				Axis Y-Y			
			Thickness, tw	Width, bf	Thickness, tw		I	S	r	Z	I	S	r	Z
	in. ² (cm ²)	in. (mm)	in. (mm)	in. (mm)	in. (mm)		in. ⁴ (10 ⁶ mm ⁴)	in. ³ (10 ³ mm ³)	in. ³ (mm)	in. (10 ³ mm ³)	in. ⁴ (10 ⁶ mm ⁴)	in. ³ (10 ³ mm ³)	in. ³ (mm)	in. (10 ³ mm ³)
W10x4	9.87	0.19	3.96	0.21	53.8	10.9	3.9	12.6	2.18	1.1	0.785	1.74	0.785	1.74
	251	4.83	101	5.33	22.4	179	99.1	206	0.907	18	19.9	28.5	19.9	28.5
	9.99	0.23	4	0.27	68.9	13.8	3.95	16	2.89	1.45	0.81	2.3	0.81	2.3
	254	5.84	102	6.86	28.7	226	100	262	1.2	23.8	20.6	37.7	20.6	37.7
W10x5½	10.1	0.24	4.01	0.33	81.9	16.2	4.05	18.7	3.56	1.78	0.845	2.8	0.845	2.8
	257	6.1	102	8.38	34.1	265	103	306	1.48	29.2	21.5	45.9	21.5	45.9
	10.2	0.25	4.02	0.395	96.3	18.8	4.14	21.6	4.29	2.14	0.874	3.35	0.874	3.35
	259	6.35	102	10	40.1	308	105	354	1.79	35.1	22.2	54.9	22.2	54.9
W10x8	22	6.49	10.2	0.24	5.75	0.36	118	23.2	4.27	26	11.4	3.97	1.33	6.1
	32.7	4.190	259	6.1	146	9.14	49.1	380	108	426	4.75	65.1	33.8	100
	26	7.61	10.3	0.26	5.77	0.44	144	27.9	4.35	31.3	14.1	4.89	1.36	7.5
	38.5	4.910	262	6.6	147	11.2	59.9	457	110	513	5.87	80.1	34.5	123
W10x10	30	8.84	10.5	0.3	5.81	0.51	170	32.4	4.38	36.6	16.7	5.75	1.37	8.84
	44.8	5.700	267	7.62	148	13	70.8	531	111	600	6.95	94.2	34.8	145
	9.73	0.29	7.96	0.435	171	35	4.19	38.8	36.6	9.2	1.94	14	1.94	14
	247	7.37	202	11	71.2	574	106	636	15.2	151	49.3	229	49.3	229
W10x12	9.92	0.315	7.99	0.53	209	42.1	4.27	46.8	45	11.3	1.98	17.2	1.98	17.2
	252	8	203	13.5	87	690	108	767	18.7	185	50.3	282	50.3	282
	10.1	0.35	8.02	0.62	248	49.1	4.32	54.9	53.4	13.3	2.01	20.3	2.01	20.3
	257	8.89	204	15.7	103	805	110	900	22.2	218	51.1	333	51.1	333
W10x14	10	0.34	10	0.56	272	54.6	4.35	60.4	93.4	18.7	2.54	28.3	2.54	28.3
	254	8.64	254	14.2	113	895	110	990	38.9	306	64.5	464	64.5	464
	10.1	0.37	10	0.615	303	60	4.37	66.6	103	20.6	2.56	31.3	2.56	31.3
	257	9.4	254	15.6	126	983	111	1,090	42.9	338	65	513	65	513
W10x16	10.2	0.42	10.1	0.68	341	66.7	4.39	74.6	116	23	2.57	35	2.57	35
	259	10.7	257	17.3	142	1,090	112	1,220	48.3	377	65.3	574	65.3	574
	10.4	0.47	10.1	0.77	394	75.7	4.44	85.3	134	26.4	2.59	40.1	2.59	40.1
	264	11.9	257	19.6	164	1,240	113	1,400	55.8	433	65.8	657	65.8	657
W10x18	10.6	0.53	10.2	0.87	455	85.9	4.49	97.6	154	30.1	2.6	45.9	2.6	45.9
	269	13.5	259	22.1	189	1,410	114	1,600	64.1	493	66	752	66	752
	10.8	0.605	10.3	0.99	534	98.5	4.54	113	179	34.8	2.63	53.1	2.63	53.1
	274	15.4	262	25.1	222	1,610	115	1,850	74.5	570	66.8	870	66.8	870
W10x21	11.1	0.68	10.3	1.12	623	112	4.6	130	207	40	2.65	61	2.65	61
	282	17.3	262	28.4	259	1,840	117	2,130	86.2	655	67.3	1,000	67.3	1,000
	11.4	0.755	10.4	1.25	716	126	4.66	147	236	45.3	2.68	69.2	2.68	69.2
	290	19.2	264	31.8	298	2,060	118	2,410	98.2	742	68.1	1,130	68.1	1,130



WIDE FLANGE BEAM DIMENSIONS

Shape		Area, A (cm ²)	Depth, d (mm)	Web	Flange		Axis X-X				Axis Y-Y			
				Thickness, t _w (mm)	Width, b _f (mm)	Thickness, t _w (mm)	I (10 ⁴ mm ⁴)	S (10 ³ mm ³)	r (mm)	Z (10 ³ mm ³)	I (10 ⁴ mm ⁴)	S (10 ³ mm ³)	r (mm)	Z (10 ³ mm ³)
				in. (mm)	in. (mm)	in. (mm)	in. ⁴ (10 ⁴ mm ⁴)	in. ³ (10 ³ mm ³)	in. ³ (mm)	in. (10 ³ mm ³)	in. ⁴ (10 ⁴ mm ⁴)	in. ³ (10 ³ mm ³)	in. ³ (mm)	in. (10 ³ mm ³)
W12x4	14	4.16	11.9	0.2	3.97	0.225	88.6	14.9	4.62	17.4	2.36	1.19	0.753	1.9
	21	2,680	302	5.08	101	5.72	36.9	244	117	285	0.982	19.5	19.1	31.1
	16	4.71	12	0.22	3.99	0.265	103	17.1	4.67	20.1	2.82	1.41	0.773	2.26
	23.8	3,040	305	5.59	101	6.73	42.9	280	119	329	1.17	23.1	19.6	37
	19	5.57	12.2	0.235	4.01	0.35	130	21.3	4.82	24.7	3.76	1.88	0.822	2.98
W12x6½	28.3	3,590	310	5.97	102	8.89	54.1	349	122	405	1.57	30.8	20.9	48.8
	22	6.48	12.3	0.26	4.03	0.425	156	25.4	4.91	29.3	4.66	2.31	0.848	3.66
	32.7	4,180	312	6.6	102	10.8	64.9	416	125	480	1.94	37.9	21.5	60
	26	7.65	12.2	0.23	6.49	0.38	204	33.4	5.17	37.2	17.3	5.34	1.51	8.17
	38.7	4,940	310	5.84	165	9.65	84.9	547	131	610	7.2	87.5	38.4	134
W12x8	30	8.79	12.3	0.26	6.52	0.44	238	38.6	5.21	43.1	20.3	6.24	1.52	9.56
	44.5	5,670	312	6.6	166	11.2	99.1	633	132	706	8.45	102	38.6	157
	35	10.3	12.5	0.3	6.56	0.52	285	45.6	5.25	51.2	24.5	7.47	1.54	11.5
	52	6,650	318	7.62	167	13.2	119	747	133	839	10.2	122	39.1	188
	40	11.7	11.9	0.295	8.01	0.515	307	51.5	5.13	57	44.1	11	1.94	16.8
W12x10	60	7,550	302	7.49	203	13.1	128	844	130	934	18.4	180	49.3	275
	45	13.1	12.1	0.335	8.05	0.575	348	57.7	5.15	64.2	50	12.4	1.95	19
	67	8,450	307	8.51	204	14.6	145	946	131	1,050	20.8	203	49.5	311
	50	14.6	12.2	0.37	8.08	0.64	391	64.2	5.18	71.9	56.3	13.9	1.96	21.3
	74	9,420	310	9.4	205	16.3	163	1,050	132	1,180	23.4	228	49.8	349
W12x12	53	15.6	12.1	0.345	10	0.575	425	70.6	5.23	77.9	95.8	19.2	2.48	29.1
	79	10,100	307	8.76	254	14.6	177	1,160	133	1,280	39.9	315	63	477
	58	17	12.2	0.36	10	0.64	475	78	5.28	86.4	107	21.4	2.51	32.5
	86	11,000	310	9.14	254	16.3	198	1,280	134	1,420	44.5	351	63.8	533
	65	19.1	12.1	0.39	12	0.605	533	87.9	5.28	96.8	174	29.1	3.02	44.1
W12 x W310 x	97	12,300	307	9.91	305	15.4	222	1,440	134	1,590	72.4	477	76.7	723
	72	21.1	12.3	0.43	12	0.67	597	97.4	5.31	108	195	32.4	3.04	49.2
	107	13,600	312	10.9	305	17	248	1,600	135	1,770	81.2	531	77.2	806
	79	23.2	12.4	0.47	12.1	0.735	662	107	5.34	119	216	35.8	3.05	54.3
	117	15,000	315	11.9	307	18.7	276	1,750	136	1,950	89.9	587	77.5	890
W12x12	87	25.6	12.5	0.515	12.1	0.81	740	118	5.38	132	241	39.7	3.07	60.4
	129	16,500	318	13.1	307	20.6	308	1,930	137	2,160	100	651	78	990
	96	28.2	12.7	0.55	12.2	0.9	833	131	5.44	147	270	44.4	3.09	67.5
	143	18,200	323	14	310	22.9	347	2,150	138	2,410	112	728	78.5	1,110
	106	31.2	12.9	0.61	12.2	0.99	933	145	5.47	164	301	49.3	3.11	75.1
W12x12	158	20,100	328	15.5	310	25.1	388	2,380	139	2,690	125	808	79	1,230
	120	35.2	13.1	0.71	12.3	1.11	1,070	163	5.51	186	345	56	3.13	85.4
	179	22,700	333	18	312	28.2	445	2,670	140	3,050	144	918	79.5	1,400
	136	39.9	13.4	0.79	12.4	1.25	1,240	186	5.58	214	398	64.2	3.16	98
	202	25,700	340	20.1	315	31.8	516	3,050	142	3,510	166	1,050	80.3	1,610
W12x12	152	44.7	13.7	0.87	12.5	1.4	1,430	209	5.66	243	454	72.8	3.19	111
	226	28,800	348	22.1	318	35.6	595	3,420	144	3,980	189	1,190	81	1,820
	170	50	14	0.96	12.6	1.56	1,650	235	5.74	275	517	82.3	3.22	126
	253	32,300	356	24.4	320	39.6	687	3,850	146	4,510	215	1,350	81.8	2,060
	190	56	14.4	1.06	12.7	1.74	1,890	263	5.82	311	589	93	3.25	143
W12x12	283	36,100	366	26.9	323	44.2	787	4,310	148	5,100	245	1,520	82.6	2,340
	210	61.8	14.7	1.18	12.8	1.9	2,140	292	5.89	348	664	104	3.28	159
	313	39,900	373	30	325	48.3	891	4,790	150	5,700	276	1,700	83.3	2,610

WIDE FLANGE BEAM DIMENSIONS

				Web			Flange		Axis X-X				Axis Y-Y			
Shape		Area, A	Depth, d	Thickness, t _w	Width, b _f	Thickness, t _w			I	S	r	Z	I	S	r	Z
		in. ² (cm ²)	in. (mm)	in. (mm)	in. (mm)	in. (mm)			in. ⁴ (10 ⁶ mm ⁴)	in. ³ (10 ³ mm ³)	in. ³ (mm)	in. (10 ⁶ mm ³)	in. ⁴ (10 ⁶ mm ⁴)	in. ³ (10 ³ mm ³)	in. ³ (mm)	in. (10 ⁶ mm ³)
W14x5	22	6.49	13.7	0.23	5	0.335			199	29	5.54	33.2	7	2.8	1.04	4.39
	32.9	4,190	348	5.84	127	8.51			82.8	475	141	544	2.91	45.9	26.4	71.9
	26	7.69	13.9	0.255	5.03	0.42			245	35.3	5.65	40.2	8.91	3.55	1.08	5.54
	39	4,960	353	6.48	128	10.7			102	578	144	659	3.71	58.2	27.4	90.8
W14x6½	30	8.85	13.8	0.27	6.73	0.385			291	42	5.73	47.3	19.6	5.82	1.49	8.99
	44	5,710	351	6.86	171	9.78			121	688	146	775	8.16	95.4	37.8	147
	34	10	14	0.285	6.75	0.455			340	48.6	5.83	54.6	23.3	6.91	1.53	10.6
	51	6,450	356	7.24	171	11.6			142	796	148	895	9.7	113	38.9	174
	38	11.2	14.1	0.31	6.77	0.515			385	54.6	5.87	61.5	26.7	7.88	1.55	12.1
	57.8	7,230	358	7.87	172	13.1			160	895	149	1,010	11.1	129	39.4	198
W14x8	43	12.6	13.7	0.305	8	0.53			428	62.6	5.82	69.6	45.2	11.3	1.89	17.3
	64	8,130	348	7.75	203	13.5			178	1,030	148	1,140	18.8	185	48	283
	48	14.1	13.8	0.34	8.03	0.595			484	70.2	5.85	78.4	51.4	12.8	1.91	19.6
	72	9,100	351	8.64	204	15.1			201	1,150	149	1,280	21.4	210	48.5	321
	53	15.6	13.9	0.37	8.06	0.66			541	77.8	5.89	87.1	57.7	14.3	1.92	22
	79	10,100	353	9.4	205	16.8			225	1,270	150	1,430	24	234	48.8	361
	61	17.9	13.9	0.375	10	0.645			640	92.1	5.98	102	107	21.5	2.45	32.8
	91	11,500	353	9.53	254	16.4			266	1,510	152	1,670	44.5	352	62.2	537
	68	20	14	0.415	10	0.72			722	103	6.01	115	121	24.2	2.46	36.9
	101	12,900	356	10.5	254	18.3			301	1,190	153	1,880	50.4	397	62.5	605
	74	21.8	14.2	0.45	10.1	0.785			795	112	6.04	126	134	26.6	2.48	40.5
	110	14,100	361	11.4	257	19.9			331	1,840	153	2,060	55.8	436	63	664
	82	24	14.3	0.51	10.1	0.855			881	123	6.05	139	148	29.3	2.48	44.8
	122	15,500	363	13	257	21.7			367	2,020	154	2,280	61.6	480	63	734
W14 x W360 x	90	26.5	14	0.44	14.5	0.71			999	143	6.14	157	362	49.9	3.7	75.6
	134	17,100	356	11.2	368	18			416	2,340	156	2,570	151	818	94	1,240
	99	29.1	14.2	0.485	14.6	0.78			1,110	157	6.17	173	402	55.2	3.71	83.6
	147	18,800	361	12.3	371	19.8			462	2,570	157	2,830	167	905	94.2	1,370
W14x14½	109	32	14.3	0.525	14.6	0.86			1,240	173	6.22	192	447	61.2	3.73	92.7
	162	20,600	363	13.3	371	21.8			516	2,830	158	3,150	186	1,000	94.7	1,520
	120	35.3	14.5	0.59	14.7	0.94			1,380	190	6.24	212	495	67.5	3.74	102
	179	22,800	368	15	373	23.9			574	3,110	158	3,470	206	1,110	95	1,670
	132	38.8	14.7	0.645	14.7	1.03			1,530	209	6.28	234	548	74.5	3.76	113
	196	25,000	373	16.4	373	26.2			637	3,420	160	3,830	228	1,220	95.5	1,850
	145	42.7	14.8	0.68	15.5	1.09			1,710	232	6.33	260	677	87.3	3.98	133
	216	27,500	376	17.3	394	27.7			712	3,800	161	4,260	282	1,430	101	2,180
	159	46.7	15	0.745	15.6	1.19			1,900	254	6.38	287	748	96.2	4	146
	237	30,100	381	18.9	396	30.2			791	4,160	162	4,700	311	1,580	102	2,390
	176	51.8	15.2	0.83	15.7	1.31			2,140	281	6.43	320	838	107	4.02	163
	262	33,400	386	21.1	399	33.3			891	4,600	163	5,240	349	1,750	102	2,670
W14x16	193	56.8	15.5	0.89	15.7	1.44			2,400	310	6.5	355	931	119	4.05	180
	287	36,600	394	22.6	399	36.6			999	5,080	165	5,820	388	1,950	103	2,950
	211	62	15.7	0.98	15.8	1.56			2,660	338	6.55	390	1,030	130	4.07	198
	314	40,000	399	24.9	401	39.6			1,110	5,540	166	6,390	429	2,130	103	3,240
	233	68.5	16	1.07	15.9	1.72			3,010	375	6.63	436	1,150	145	4.1	221
	347	44,200	406	27.2	404	43.7			1,250	6,150	168	7,140	479	2,380	104	3,620
	257	75.6	16.4	1.18	16	1.89			3,400	415	6.71	487	1,290	161	4.13	246
	382	48,800	417	30	406	48			1,420	6,800	170	7,980	537	2,640	105	4,030



WIDE FLANGE BEAM DIMENSIONS

Shape	Area, A in. (cm ²)	Depth, d in. (mm)	Web	Flange		Axis X-X				Axis Y-Y				
			Thickness, t _w in. (mm)	Width, b _f in. (mm)	Thickness, t _w in. (mm)	I in. ⁴ (10 ⁶ mm ⁴)	S in. ³ (10 ³ mm ³)	r in. (mm)	Z in. (10 ³ mm ³)	I in. ⁴ (10 ⁶ mm ⁴)	S in. ³ (10 ³ mm ³)	r in. (mm)	Z in. (10 ³ mm ³)	
W16x5½	26 38.8	7.68 4,950	15.7 399	0.25 6.35	5.5 140	0.345 8.76	301 125	38.4 629	6.26 159	44.2 724	9.59 3.99	3.49 57.2	1.12 28.4	5.48 89.8
	31 46.1	9.13 5,890	15.9 404	0.275 6.99	5.53 140	0.44 11.2	375 156	47.2 773	6.41 163	54 885	12.4 5.16	4.49 73.6	1.17 29.7	7.03 115
	36 53	10.6 6,840	15.9 404	0.295 7.49	6.99 178	0.43 10.9	448 186	56.5 926	6.51 165	64 1,050	24.5 10.2	7 115	1.52 38.6	10.8 177
W16x7	40 60	11.8 7,610	16 406	0.305 7.75	7 178	0.505 12.8	518 216	64.7 1,060	6.63 168	73 1,200	28.9 12	8.25 135	1.57 39.9	12.7 208
	45 67	13.3 8,580	16.1 409	0.345 8.76	7.04 179	0.565 14.4	586 244	72.7 1,190	6.65 169	82.3 1,350	32.8 13.7	9.34 153	1.57 39.9	14.5 238
	50 75	14.7 9,480	16.3 414	0.38 9.65	7.07 180	0.63 16	659 274	81 1,330	6.68 170	92 1,510	37.2 15.5	10.5 172	1.59 40.4	16.3 267
W16 x W410 x	57 85	16.8 10,800	16.4 417	0.43 10.9	7.12 181	0.715 18.2	758 316	92.2 1,510	6.72 171	105 1,720	43.1 17.9	12.1 198	1.6 40.6	18.9 310
	67 100	19.6 12,600	16.3 414	0.395 10	10.2 259	0.665 16.9	954 397	117 1,920	6.96 177	130 2,130	119 49.5	23.2 380	2.46 62.5	35.5 582
	77 114	22.6 14,600	16.5 419	0.455 11.6	10.3 262	0.76 19.3	1,110 462	134 2,200	7 178	150 2,460	138 57.4	26.9 441	2.47 62.7	41.1 674
W16x10½	89 132	26.2 16,900	16.8 427	0.525 13.3	10.4 264	0.875 22.2	1,300 541	155 2,540	7.05 179	175 2,870	163 67.8	31.4 515	2.49 63.2	48.1 788
	100 149	29.4 19,000	17 432	0.585 14.9	10.4 264	0.985 25	1,490 620	175 2,870	7.1 180	198 3,240	186 77.4	35.7 585	2.51 63.8	54.9 900
	W18x6	35 52	10.3 6,650	17.7 450	0.3 7.62	6 152	0.425 10.8	510 212	57.6 944	7.04 179	66.5 1,090	15.3 6.37	5.12 83.9	1.22 31
40 60		11.8 7,610	17.9 455	0.315 8	6.02 153	0.525 13.3	612 255	68.4 1,120	7.21 183	78.4 1,280	19.1 7.95	6.35 104	1.27 32.3	10 164
46 68		13.5 8,710	18.1 460	0.36 9.14	6.06 154	0.605 15.4	712 296	78.8 1,290	7.25 184	90.7 1,490	22.5 9.37	7.43 122	1.29 32.8	11.7 192
W18x7½	50 74	14.7 9,480	18 457	0.355 9.02	7.5 191	0.57 14.5	800 333	88.9 1,460	7.38 187	101 1,660	40.1 16.7	10.7 175	1.65 41.9	16.6 272
	55 82	16.2 10,500	18.1 460	0.39 9.91	7.53 191	0.63 16	890 370	98.3 1,610	7.41 188	112 1,840	44.9 18.7	11.9 195	1.67 42.4	18.5 303
	60 89	17.6 11,400	18.2 462	0.415 10.5	7.56 192	0.695 17.7	984 410	108 1,770	7.47 190	123 2,020	50.1 20.9	13.3 218	1.68 42.7	20.6 338
W18x11	65 97	19.1 12,300	18.4 467	0.45 11.4	7.59 193	0.75 19.1	1,070 445	117 1,920	7.49 190	133 2,180	54.8 22.8	14.4 236	1.69 42.9	22.5 369
	71 106	20.9 13,500	18.5 470	0.495 12.6	7.64 194	0.81 20.6	1,170 487	127 2,080	7.5 191	146 2,390	60.3 25.1	15.8 259	1.7 43.2	24.7 405
	76 113	22.3 14,400	18.2 462	0.425 10.8	11 279	0.68 17.3	1,330 554	146 2,390	7.73 196	163 2,670	152 63.3	27.6 452	2.61 66.3	42.2 692
W18 x W460 x	86 128	25.3 16,300	18.4 467	0.48 12.2	11.1 282	0.77 19.6	1,530 637	166 2,720	7.77 197	186 3,050	175 72.8	31.6 518	2.63 66.8	48.4 793
	97 144	28.5 18,400	18.6 472	0.535 13.6	11.1 282	0.87 22.1	1,750 728	188 3,080	7.82 199	211 3,460	201 83.7	36.1 592	2.65 67.3	55.3 906
	106 158	31.1 20,100	18.7 475	0.59 15	11.2 284	0.94 23.9	1,910 795	204 3,340	7.84 199	230 3,770	220 91.6	39.4 646	2.66 67.6	60.5 991
W18x11	119 177	35.1 22,600	19 483	0.655 16.6	11.3 287	1.06 26.9	2,190 912	231 3,790	7.9 201	262 4,290	253 105	44.9 736	2.69 68.3	69.1 1,130
	130 193	38.3 24,700	19.3 490	0.67 17	11.2 284	1.2 30.5	2,460 1,020	256 4,200	8.03 204	290 4,750	278 116	49.9 818	2.7 68.6	76.7 1,260
	143 213	42 27,100	19.5 495	0.73 18.5	11.2 284	1.32 33.5	2,750 1,140	282 4,620	8.09 205	322 5,280	311 129	55.5 909	2.72 69.1	85.4 1,400
W18x11	158 235	46.3 29,900	19.7 500	0.81 20.6	11.3 287	1.44 36.6	3,060 1,270	310 5,080	8.12 206	356 5,830	347 144	61.4 1,010	2.74 69.6	94.8 1,550
	175 260	51.4 33,200	20 508	0.89 22.6	11.4 290	1.59 40.4	3,450 1,440	344 5,640	8.2 208	398 6,520	391 163	68.8 1,130	2.76 70.1	106 1,740
	192 286	56.2 36,300	20.4 518	0.96 24.4	11.5 292	1.75 44.5	3,870 1,610	380 6,230	8.28 210	442 7,240	440 183	76.8 1,260	2.79 70.9	119 1,950
W18x11	211 315	62.3 40,200	20.7 526	1.06 26.9	11.6 295	1.91 48.5	4,330 1,800	419 6,870	8.35 212	490 8,030	493 205	85.3 1,400	2.82 71.6	132 2,160

WIDE FLANGE BEAM DIMENSIONS

Shape	Area, A	Web		Flange		Axis X-X				Axis Y-Y			
		Depth, d	Thickness, t _w	Width, b _f	Thickness, t _w	I	S	r	Z	I	S	r	Z
	in. ² (cm ²)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. ⁴ (10 ⁶ mm ⁴)	in. ³ (10 ³ mm ³)	in. ³ (mm ³)	in. (10 ³ mm ³)	in. ⁴ (10 ⁶ mm ⁴)	in. ³ (10 ³ mm ³)	in. ³ (mm ³)	in. (10 ³ mm ³)
W21x6½	44	13	0.35	6.5	0.45	843	81.6	8.06	95.4	20.7	6.37	1.26	10.2
	66	8,390	526	8.89	165	11.4	351	1,340	205	1,560	8.62	104	32
	50	14.7	0.38	6.53	0.535	984	94.5	8.18	110	24.9	7.64	1.3	12.2
	74	9,480	528	9.65	166	13.6	410	1,550	208	1,800	10.4	125	33
W21x8½	57	16.7	0.405	6.56	0.65	1,170	111	8.36	129	30.6	9.35	1.35	14.8
	85	10,800	536	10.3	167	16.5	487	1,820	212	2,110	12.7	153	34.3
	48	14.1	0.35	8.14	0.43	959	93	8.24	107	38.7	9.52	1.66	14.9
	72	9,100	523	8.89	207	10.9	399	1,520	209	1,750	16.1	156	42.2
W21x10½	55	16.2	0.375	8.22	0.522	1,140	110	8.4	126	48.4	11.8	1.73	18.4
	82	10,500	528	9.53	209	13.3	475	1,800	213	2,060	20.1	193	43.9
	62	18.3	0.4	8.24	0.615	1,330	127	8.54	144	57.5	14	1.77	21.7
	92	11,800	533	10.2	209	15.6	554	2,080	217	2,360	23.9	229	45
W21x12½	68	20	0.43	8.27	0.685	1,480	140	8.6	160	64.7	15.7	1.8	24.4
	101	12,900	536	10.9	210	17.4	616	2,290	218	2,620	26.9	257	45.7
	73	21.5	0.455	8.3	0.74	1,600	151	8.64	172	70.6	17	1.81	26.6
	109	13,900	538	11.6	211	18.8	666	2,470	219	2,820	29.4	279	46
W21 x W530 x	83	24.4	0.515	8.36	0.835	1,830	171	8.67	196	81.4	19.5	1.83	30.5
	123	15,700	544	13.1	212	21.2	762	2,800	220	3,210	33.9	320	46.5
	93	27.3	0.58	8.42	0.93	2,070	192	8.7	221	92.9	22.1	1.84	34.7
	138	17,600	549	14.7	214	23.6	862	3,150	221	3,620	38.7	362	46.7
W21x14½	101	29.8	0.5	12.3	0.8	2,420	227	9.02	253	248	40.3	2.89	61.7
	150	19,200	544	12.7	312	20.3	1,010	3,720	229	4,150	103	660	73.4
	111	32.6	0.55	12.3	0.875	2,670	249	9.05	279	274	44.5	2.9	68.2
	165	21,000	546	14	312	22.2	1,110	4,080	230	4,570	114	729	73.7
W21x16½	122	35.9	0.6	12.4	0.96	2,960	273	9.09	307	305	49.2	2.92	75.6
	182	23,200	551	15.2	315	24.4	1,230	4,470	231	5,030	127	806	74.2
	132	38.8	0.65	12.4	1.04	3,220	295	9.12	333	333	53.5	2.93	82.3
	196	25,000	554	16.5	315	26.4	1,340	4,830	232	5,460	139	877	74.4
W21x18½	147	43.2	0.72	12.5	1.15	3,630	329	9.17	373	376	60.1	2.95	92.6
	219	27,900	561	18.3	318	29.2	1,510	5,390	233	6,110	157	985	74.9
	166	48.8	0.75	12.4	1.36	4,280	380	9.36	432	435	70	2.99	108
	248	31,500	572	19.1	315	34.5	1,780	6,230	238	7,080	181	1,150	75.9
W21x21	182	53.6	0.83	12.5	1.48	4,730	417	9.4	476	483	77.2	3	119
	272	34,600	577	21.1	318	37.6	1,970	6,830	239	7,800	201	1,270	76.2
	201	59.3	0.91	12.6	1.63	5,310	461	9.47	530	542	86.1	3.02	133
	300	38,300	584	23.1	320	41.4	2,210	7,550	241	8,690	226	1,410	76.7

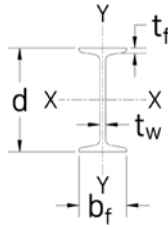


WIDE FLANGE BEAM DIMENSIONS

		Web		Flange		Axis X-X				Axis Y-Y			
Shape	Area, A in. ² (cm ²)	Depth, d in. (mm)	Thickness, t _w in. (mm)	Width, b _f in. (mm)	Thickness, t _w in. (mm)	I in. ⁴ (10 ⁶ mm ⁴)	S in. ³ (10 ³ mm ³)	r in. (mm)	Z in. (10 ³ mm ³)	I in. ⁴ (10 ⁶ mm ⁴)	S in. ³ (10 ³ mm ³)	r in. (mm)	Z in. (10 ³ mm ³)
W24x7	55	16.2	23.6	0.395	7.01	0.505	1,350	114	9.11	134	29.1	8.3	1.34
	82	10,500	599	10	178	12.8	562	1,870	231	2,200	12.1	136	34
	92	11,700	602	0.43	7.04	0.59	1,550	131	9.23	153	34.5	9.8	1.38
W24x9	62	18.2	23.7	0.43	7.04	0.59	1,550	131	9.23	153	34.5	9.8	1.38
	92	11,700	602	10.9	179	15	645	2,510	234	2,510	14.4	161	35.1
	15.7												257
W24x12	68	20.1	23.7	0.415	8.97	0.585	1,830	154	9.55	177	70.4	15.7	1.87
	101	13,000	602	10.5	228	14.9	762	2,520	243	2,900	29.3	257	47.5
	24.5												401
W24x14	76	22.4	23.9	0.44	8.99	0.68	2,100	176	9.69	200	82.5	18.4	1.92
	113	14,500	607	11.2	228	17.3	874	2,880	246	3,280	34.3	302	48.8
	28.6												469
W24x17	84	24.7	24.1	0.47	9.02	0.77	2,370	196	9.79	224	94.4	20.9	1.95
	125	15,900	612	11.9	229	19.6	986	3,210	249	3,670	39.3	342	49.5
	32.6												534
W24x22	94	27.7	24.3	0.515	9.07	0.875	2,700	222	9.87	254	109	24	1.98
	140	17,900	617	13.1	230	22.2	1,120	3,640	251	4,160	45.4	393	50.3
	37.5												615
W24x26	103	30.3	24.5	0.55	9	0.98	3,000	245	10	280	119	26.5	1.99
	153	19,500	622	14	229	24.9	1,250	4,010	254	4,590	49.5	434	50.5
	41.5												680
W24 x W610 x	104	30.7	24.1	0.5	12.8	0.75	3,100	258	10.1	289	259	40.7	2.91
	155	19,800	612	12.7	325	19.1	1,290	4,230	257	4,740	108	667	73.9
	1,020												
W24x30	117	34.4	24.3	0.55	12.8	0.85	3,540	291	10.1	327	297	46.5	2.94
	174	22,200	617	14	325	21.6	1,470	4,770	257	5,360	124	762	74.7
	71.4												1,170
W24x36	131	38.6	24.5	0.605	12.9	0.96	4,020	329	10.2	370	340	53	2.97
	195	24,900	622	15.4	328	24.4	1,670	5,390	259	6,060	142	869	75.4
	1,340												
W24x40	146	43	24.7	0.65	12.9	1.09	4,580	371	10.3	418	391	60.5	3.01
	217	27,700	627	16.5	328	27.7	1,910	6,080	262	6,850	163	991	76.5
	1,530												
W24x44	162	47.8	25	0.705	13	1.22	5,170	414	10.4	468	443	68.4	3.05
	241	30,800	635	17.9	330	31	2,150	6,780	264	7,670	184	1,120	77.5
	1,720												
W24x50	176	51.7	25.2	0.75	12.9	1.34	5,680	450	10.5	511	479	74.3	3.04
	262	33,400	640	19.1	328	34	2,360	7,370	267	8,370	199	1,220	77.2
	1,880												
W24x54	192	56.5	25.5	0.81	13	1.46	6,260	491	10.5	559	530	81.8	3.07
	285	36,500	648	20.6	330	37.1	2,610	8,050	267	9,160	221	1,340	78
	2,060												
W24x60	207	60.7	25.7	0.87	13	1.57	6,820	531	10.6	606	578	88.8	3.08
	307	39,200	653	22.1	330	39.9	2,840	8,700	269	9,930	241	1,460	78.2
	2,250												
W27x10	84	24.7	26.7	0.46	10	0.64	2,850	213	10.7	244	106	21.2	2.07
	125	15,900	678	11.7	254	16.3	1,190	3,490	272	4,000	44.1	347	52.6
	544												
W27x12	94	27.6	26.9	0.49	10	0.745	3,270	243	10.9	278	124	24.8	2.12
	140	17,800	683	12.4	254	18.9	1,360	3,980	277	4,560	51.6	406	53.8
	636												
W27x14	102	30	27.1	0.515	10	0.83	3,620	267	11	305	139	27.8	2.15
	152	19,400	688	13.1	254	21.1	1,510	4,380	279	5,000	57.9	456	54.6
	43.4												
W27 x W690 x	114	33.6	27.3	0.57	10.1	0.93	4,080	299	11	343	159	31.5	2.18
	170	21,700	693	14.5	257	23.6	1,700	4,900	279	5,620	66.2	516	55.4
	808												
W27x18	129	37.8	27.6	0.61	10	1.1	4,760	345	11.2	395	184	36.8	2.21
	192	24,400	701	15.5	254	27.9	1,980	5,650	284	6,470	76.6	603	56.1
	944												
W27x21	146	43.2	27.4	0.605	14	0.975	5,660	414	11.5	464	443	63.5	3.2
	217	27,900	696	15.4	356	24.8	2,360	6,780	292	7,600	184	1,040	81.3
	97.7												1,600
W27x24	161	47.6	27.6	0.66	14	1.08	6,310	458	11.5	515	497	70.9	3.23
	240	30,700	701	16.8	356	27.4	2,630	7,510	292	8,440	207	1,160	82
	1,790												
W27x27	178	52.5	27.8	0.725	14.1	1.19	7,020	505	11.6	570	555	78.8	3.25
	265	33,900	706	18.4	358	30.2	2,920	8,280	295	9,340	231	1,290	82.6
	2,000												
W27x30	194	57.1	28.1	0.75	14	1.34	7,860	559	11.7	631	619	88.1	3.29
	289	36,800	714	19.1	356	34	3,270	9,160	297	10,300	258	1,440	83.6
	2,230												
W27x33	217	63.9	28.4	0.83	14.1	1.5	8,910	627	11.8	711	704	100	3.32
	323	41,200	721	21.1	358	38.1	3,710	10,300	300	11,700	293	1,640	84.3
	2,520												
W27x36	235	69.4	28.7	0.91	14.2	1.61	9,700	677	11.8	772	769	108	3.33
	350	44,800	729	23.1	361	40.9	4,040	11,100	300	12,700	320	1,770	84.6
	2,750												

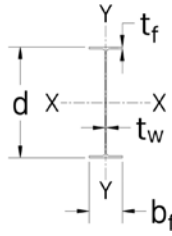
WIDE FLANGE BEAM DIMENSIONS

Shape	Area, A	Depth, d	Web	Flange		Axis X-X				Axis Y-Y			
			Thickness, t _w	Width, b _f	Thickness, t _w	I	S	r	Z	I	S	r	Z
	in. ² (cm ²)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. ⁴ (10 ⁶ mm ⁴)	in. ³ (10 ³ mm ³)	in. ³ (mm)	in. (10 ³ mm ³)	in. ⁴ (10 ⁶ mm ⁴)	in. ³ (10 ³ mm ³)	in. ³ (mm)	in. (10 ³ mm ³)
W30x10½	90	26.3	29.5	10.4	0.61	3,610	245	11.7	283	115	22.1	2.09	34.7
	134	17,000	749	11.9	15.5	1,500	4,010	297	4,640	47.9	362	53.1	569
	99	29	29.7	10.5	0.67	3,990	269	11.7	312	128	24.5	2.1	38.6
	147	18,700	754	13.2	17	1,660	4,410	297	5,110	53.3	401	53.3	633
	108	31.7	29.8	10.5	0.76	4,470	299	11.9	346	146	27.9	2.15	43.9
	161	20,500	757	13.8	19.3	1,860	4,900	302	5,670	60.8	457	54.6	719
	116	34.2	30	10.5	0.85	4,930	329	12	378	164	31.3	2.19	49.2
	173	22,100	762	14.4	21.6	2,050	5,390	305	6,190	68.3	513	55.6	806
	124	36.5	30.2	10.5	0.93	5,360	355	12.1	408	181	34.4	2.23	54
	185	23,500	767	14.9	23.6	2,230	5,820	307	6,690	75.3	564	56.6	885
W33x11½	118	34.7	32.9	11.5	0.74	5,900	359	13	415	187	32.6	2.32	51.3
	176	22,400	836	14	18.8	2,460	5,880	330	6,800	77.8	534	58.9	841
	130	38.3	33.1	11.5	0.855	6,710	406	13.2	467	218	37.9	2.39	59.5
	193	24,700	841	14.7	21.7	2,790	6,650	335	7,650	90.7	621	60.7	975
	141	41.5	33.3	11.5	0.96	7,450	448	13.4	514	246	42.7	2.43	66.9
	210	26,800	846	15.4	24.4	3,100	7,340	340	8,420	102	700	61.7	1,100
	152	44.9	33.5	11.6	1.06	8,160	487	13.5	559	273	47.2	2.47	73.9
	226	29,000	851	16.1	26.9	3,400	7,980	343	9,160	114	773	62.7	1,210
	169	49.5	33.8	11.5	1.22	9,290	549	13.7	629	310	53.9	2.5	84.4
	251	31,900	859	17	29.2	3,870	9,000	348	10,300	129	883	63.5	1,380
W36x12	135	39.9	35.6	12	0.79	7,800	439	14	509	225	37.7	2.38	59.7
	201	25,700	904	15.2	20.1	3,250	7,190	356	8,340	93.7	618	60.5	978
	150	44.3	35.9	12	0.94	9,040	504	14.3	581	270	45.1	2.47	70.9
	223	28,600	912	15.9	23.9	3,760	8,260	363	9,520	112	739	62.7	1,160
	160	47	36	12	1.02	9,760	542	14.4	624	295	49.1	2.5	77.3
	238	30,300	914	16.5	25.9	4,060	8,880	366	10,200	123	805	63.5	1,270
	170	50	36.2	12	1.1	10,500	581	14.5	668	320	53.2	2.53	83.8
	253	32,300	919	17.3	27.9	4,370	9,520	368	10,900	133	872	64.3	1,370
	182	53.6	36.3	12.1	1.18	11,300	623	14.5	718	347	57.6	2.55	90.7
	271	34,600	922	18.4	30.7	4,700	10,200	368	11,800	144	944	64.8	1,490
	194	57	36.5	12.1	1.26	12,100	664	14.6	767	375	61.9	2.56	97.7
	289	36,800	927	19.4	30.7	5,040	10,900	371	12,600	156	1,010	65	1,600
	232	68	37.1	12.1	1.57	15,000	809	14.8	936	468	77.2	2.62	122
	345	43,900	943	22.1	30.7	6,240	13,300	376	15,300	195	1,270	66.5	2,000
	256	75.3	37.4	12.2	1.73	16,800	895	14.9	1,040	528	86.5	2.65	137
	381	48,600	951	24.4	31.0	6,990	14,700	378	17,000	220	1,420	67.3	2,250



STANDARD BEAM DIMENSIONS

	Shape	Nominal Depth, in. (mm)	Area, A in. ² (cm ²)	Depth, d in. (mm)	Web	Flange		Axis X-X				Axis Y-Y			
					Thickness, t _w in. (mm)	Width, b _f in. (mm)	Thickness, t _w in. (mm)	I in. ⁴ (10 ⁶ mm ⁴)	S in. ³ (10 ³ mm ³)	r in. ³ (mm)	Z in. (10 ³ mm ³)	I in. ⁴ (10 ⁶ mm ⁴)	S in. ³ (10 ³ mm ³)	r in. ³ (mm)	Z in. (10 ³ mm ³)
S3x S75x	5.7	3	1.66	3	0.17	2.33	0.26	2.50	1.67	1.23	1.94	0.447	0.383	0.518	0.656
	8.5	75	1,070	76	4.3	59	6.6	1.04	27	31	32	0.186	6.28	13.2	10.70
	7.5	3	2.2	3	0.349	2.51	0.26	2.91	1.94	1.15	2.35	0.578	0.461	0.513	0.821
S4x S100x	11.2	75	1,420	76	8.9	64	6.6	1.21	32	29	39	0.241	7.55	13.0	13.50
	7.7	4	2.26	4	0.193	2.66	0.293	6.05	3.03	1.64	3.50	0.748	0.562	0.6	0.97
	11.5	100	1,460	102	4.9	68	7.4	2.52	50	42	57	0.311	9.21	14.6	15.90
S5x S130x	9.5	4	2.79	4	0.326	2.8	0.293	6.76	3.38	1.56	4.04	0.887	0.635	0.564	1.13
	14.1	100	1,800	102	8.3	71	7.4	2.81	55	40	66	0.369	10.40	14.3	18.50
	10	5	2.93	5	0.214	3	0.326	12.30	4.90	2.05	5.66	1.190	0.795	0.638	1.37
S6x S150x	15	130	1,890	127	5.4	76	8.3	5.12	80	52	93	0.495	13.00	16.2	22.50
	12.5	6	3.66	6	0.232	3.33	0.359	22.0	7.34	2.45	8.45	1.800	1.08	0.7	1.86
	18.6	150	2,360	152	5.9	85	9.1	9.16	120	62	138	0.749	17.70	17.8	30.50
S8x S200x	17.25	6	5.05	6	0.465	3.57	0.359	26.2	8.74	2.28	10.5	2.290	1.28	0.673	2.35
	25.7	150	3,260	152	11.8	91	9.1	10.90	143	58	172	0.953	21.00	17.1	38.50
	18.4	8	5.4	8	0.271	4	0.425	57.5	14.4	3.26	16.5	3.690	1.84	0.8	3.18
S10x S250x	27.4	200	3,480	203	6.9	102	10.8	23.90	236	83	270	1.540	30.20	21.0	52.10
	23	8	6.76	8	0.441	4.17	0.425	64.7	16.2	3.09	19.2	4.270	2.05	0.795	3.67
	34	200	4,360	203	11.2	106	10.8	26.90	265	79	315	1.780	33.60	20.2	60.10
S12x S310x	25.4	10	7.45	10	0.311	4.66	0.491	123.0	24.6	4.07	28.3	6.730	2.89	1.0	4.99
	37.8	250	4,810	254	7.9	118	12.5	51.20	403	103	464	2.800	47.40	24.1	81.80
	35	10	10.3	10	0.594	4.94	0.491	147.0	29.4	3.78	35.4	8.300	3.36	0.899	6.19
S12x S310x	52	250	6,650	254	15.1	125	12.5	61.20	482	96	580	3.450	55.10	22.8	101.00
	31.8	12	9.31	12	0.35	5	0.544	217.0	36.2	4.83	41.8	9.330	3.73	1.0	6.44
	47.3	310	6,010	305	8.9	127	13.8	90.30	593	123	685	3.880	61.10	25.4	106.00



MISCELLANEOUS BEAM DIMENSIONS

	Shape	Nominal Depth, in. (mm)	Area, A in. ² (cm ²)	Depth, d in. (mm)	Web	Flange		Axis X-X				Axis Y-Y			
					Thickness, t _w in. (mm)	Width, b _f in. (mm)	Thickness, t _w in. (mm)	I in. ⁴ (10 ⁹ mm ⁴)	S in. ³ (10 ⁶ mm ³)	r in. (mm)	Z in. (10 ⁴ mm ³)	I in. ⁴ (10 ⁹ mm ⁴)	S in. ³ (10 ⁶ mm ³)	r in. (mm)	Z in. (10 ⁴ mm ³)
M8x M200x	6.5	8	1.92	8	0.135	2.28	0.189	19	4.63	3.11	5.43	0.376	0.329	0.443	0.529
	9.7	200	1,240	203	3.4	58	4.8	8	76	79	89	0.157	5.39	11.3	8.67
M10x M250x	8	10	2.37	9.95	0.141	2.69	0.182	35	6.95	3.82	8.2	0.593	0.441	0.5	0.711
	11.9	250	1,530	253	3.6	68	4.6	14	114	97	134	0.247	7.23	12.7	11.70
	9	10	2.65	10	0.157	2.69	0.206	39	7.79	3.83	9.22	0.672	0.5	0.503	0.809
M12x M310x	13.4	250	1,710	254	4.0	68	5.2	16	128	97	151	0.280	8.19	12.8	13.30
	10.8	12	3.18	12	0.16	3.07	0.21	67	11.1	4.58	13.2	1.010	0.661	0.564	1.070
	16.1	310	2,050	305	4.1	78	5.3	28	182	116	216	0.420	10.80	14.3	17.50
M12.5x M318x	11.6	12.5	3.4	12.5	0.155	3.5	0.211	80	12.8	4.86	15	1.510	0.864	0.667	1.370
	17.3	318	2,190	318	3.9	89	5.4	33	210	123	246	0.629	14.20	16.9	22.50
	12.4	12.5	3.63	12.5	0.155	3.75	0.228	89	14.2	4.96	16.5	2.010	1.070	0.744	1.680
	18.5	318	2,340	318	3.9	95	5.8	37	233	126	270	0.837	17.50	18.9	27.50

MERCHANT





GERDAU MERCHANT PRODUCTS IN USE

GORDIE HOWE BRIDGE

Detroit River

The Gordie Howe Bridge is a 2,000 m bridge 80 ft in the air connecting the USA and Canada over the Detroit River. The project started in 2018 and is expected to be completed by the end of 2025.

This major infrastructure project had a Buy Canadian/Buy American steel requirement, which Gerdau was able to service while offering shorter delivery lead times due to the proximity of our Whitby, ON mill. Gerdau's extensive range of angle sizes and low carbon/ton emissions also allowed the customer to meet specific project targets and provided an overall cleaner steel solution.

GGMULTI

THE SMART CHOICE FOR RELIABLE CONSISTENCY IN A MULTI-GRADE PRODUCT



GGMULTI Benefits

- Satisfy 11 different grades
- Reduce inventory by combining several grades into one
- Achieve real time savings for purchasing and warehousing
- Narrow chemistry specifications
- Improve weldability
- Improve fabrication processes for shearing, punching, and bending

GGMULTI PRODUCTS

PRODUCT	RANGE
Angles	3/4" and greater
Channels	3" and greater
MC Channels	3" and greater
Flats	3/16" and greater
Rounds	3/4" - 2½"
Squares	1/2" - 1½"

IMPROVE PRODUCT PERFORMANCE WITH GGMULTI

GGMULTI products have lower carbon levels, help improve weldability, and provide a safeguard against the possibility of weld cracking (as compared to A529-50 grade). GGMULTI products (angles, channels, and flats) are designed to have a consistent minimum yield strength of 50 ksi and this single grade covers the following eleven distinct grades.

	A36	A529-50	A572-50	A709-36	A709-50	A992*	AASHTO M270-36	AASHTO M270-50	CSA 44W	CSA 50W	ASME SA 36
A36	X			X			X			X	
A529-50		X									
A572-50			X		X			X			
A709-36	X			X			X			X	
A709-50			X		X			X			
A992*						X*			X	X	
AASHTO M270-36	X			X			X			X	
AASHTO M270-50			X		X			X			
CSA 44W						X			X		
CSA 50W						X				X	
ASME SA 36	X			X			X				X
GGMULTI	X	X	X	X	X	X*	X	X	X	X	X

*Channel Sections Only

MERCHANT PRODUCTS AND BUNDLES

ANGLES - CARTERSVILLE, GA

MATERIAL DESCRIPTION	WT / FT	PCS / BUNDLE	
		20'	40'
L 5x5x5/16	10.3	24	23
L 5x5x3/8	12.3	20	20
L 5x5x7/16	14.3	17	17
L 5x5x1/2	16.2	15	15
L 5x5x5/8	20.0	12	12
L 5x5x3/4	23.6	9	9
L 6x3 1/2x1/2	15.3	15	15
L 6x3 1/2x3/8	11.7	20	20
L 6x3 1/2x5/16	9.8	23	23
L 6x4x5/16	10.3	23	23
L 6x4x3/8	12.3	18	18
L 6x4x7/16	14.3	23	15
L 6x4x1/2	16.2	15	15
L 6x4x5/8	20.0	15	10
L 6x4x3/4	23.6	12	9
L 6x6x5/16	10.3	18	18
L 6x6x3/8	14.9	17	15
L 6x6x7/16	17.2	12	12
L 6x6x1/2	19.6	12	12
L 6x6x5/8	24.2	9	9
L 6x6x3/4	28.7	8	8
L 6x6x7/8	33.1	8	6
L 6x6x1	37.4	6	6
L 8x4x1/2	19.6	12	12
L 8x4x5/8	24.2	17	9
L 8x4x3/4	28.7	8	8
L 8x4x1	37.4	12	6
L 8x6x7/16	20.2	18	12
L 8x6x1/2	23.0	18	9
L 8x6x5/8	28.5	17	8
L 8x6x3/4	33.8	9	6
L 8x6x1	44.2	5	5
L 8x8x1/2	26.4	18	9
L 8x8x5/8	32.7	15	6
L 8x8x3/4	38.9	12	6
L 8x8x7/8	45.0	5	5
L 8x8x1	51.0	9	3

ANGLES - JACKSON, TN

MATERIAL DESCRIPTION	WT / FT	PCS / BUNDLE	
		20'	40'
L 2x2x1/8	1.7	147	147
L 2x2x3/16	2.4	97	98
L 2x2x1/4	3.2	77	76
L 2x2x5/16	3.9	62	62
L 2x2x3/8	4.7	49	49
L 2 1/2x2 1/2x3/16	3.1	80	80
L 2 1/2x2 1/2x1/4	4.1	60	60
L 2 1/2x2 1/2x5/16	5.0	45	45
L 2 1/2x2 1/2x3/8	5.3	40	40
L 3x2x3/16	3.1	80	80
L 3x2x1/4	4.1	60	60
L 3x2x5/16	5.0	45	45
L 3x2x3/8	5.9	40	40
L 3x2 1/2x1/4	4.1	55	55
L 3x2 1/2x5/16	5.6	40	40
L 3x2 1/2x3/8	6.6	35	35
L 3 1/2x2 1/2x1/2	8.5	25	25
L 3 1/2x2 1/2x1/4	4.9	50	50
L 3 1/2x2 1/2x3/8	7.2	30	30
L 3 1/2x2 1/2x5/16	6.1	40	40
L 3x3x3/16	3.1	65	65
L 3x3x1/4	4.9	50	50
L 3x3x5/16	5.0	40	40
L 3x3x3/8	7.2	30	30
L 3x3x1/2	9.4	25	25
L 3 1/2x3x1/4	5.4	45	45
L 3 1/2x3x5/16	6.6	35	35
L 3 1/2x3x3/8	7.9	30	30

MATERIAL DESCRIPTION	WT / FT	PCS / BUNDLE	
		20'	40'
L 3 1/2x3x1/2	10.2	20	20
L 3 1/2x3 1/2x1/4	5.8	42	42
L 3 1/2x3 1/2x5/16	7.2	33	33
L 3 1/2x3 1/2x3/8	8.5	28	28
L 3 1/2x3 1/2x1/2	11.1	22	22
L 4x3x1/4	5.8	42	42
L 4x3x5/16	7.2	33	33
L 4x3x3/8	8.5	28	28
L 4x3x1/2	11.1	22	22
L 4x3 1/2x1/4	6.2	39	39
L 4x3 1/2x5/16	7.7	30	30
L 4x3 1/2x3/8	9.1	25	25
L 4x3 1/2x1/2	11.9	19	19
L 4x4x1/4	6.6	36	36
L 4x4x5/16	8.2	27	27
L 4x4x3/8	8.5	25	25
L 4x4x1/2	12.8	19	19
L 4x4x5/8	15.7	13	13
L 4x4x3/4	18.5	13	13
L 5x3x1/4	6.6	30	30
L 5x3x5/16	8.2	27	27
L 5x3x3/8	9.8	25	25
L 5x3x1/2	12.8	19	19
L 5x3 1/2x1/4	7.0	30	30
L 5x3 1/2x5/16	8.7	27	27
L 5x3 1/2x3/8	10.4	22	22
L 5x3 1/2x1/2	13.6	16	16

ANGLES - WILTON, IA

MATERIAL DESCRIPTION	WT / FT	PCS / BUNDLE	
		20'	40'
L 1 1/4x1 1/4x1/8	1.0	248	240
L 1 1/4x1 1/4x3/16	1.5	165	165
L 1 1/4x1 1/4x1/4	1.9	128	120
L 1 1/2x1 1/2x1/8	1.2	202	195
L 1 1/2x1 1/2x3/16	1.8	137	137
L 1 1/2x1 1/2x1/4	2.3	104	104
L 1 3/4x1 3/4x1/8	1.4	176	176
L 1 3/4x1 3/4x3/16	2.1	116	116
L 1 3/4x1 3/4x1/4	2.8	88	88
L 2x2x1/8	1.7	153	144
L 2x2x3/16	2.4	104	99
L 2x2x1/4	3.2	77	77
L 2x2x3/8	4.7	54	54
L 2 1/2x2x3/16	2.8	91	88
L 2 1/2x2x1/4	3.2	70	67
L 2 1/2x2x5/16	4.5	56	56
L 2 1/2x2x3/8	4.7	46	46
L 2 1/2x2 1/2x3/16	3.1	81	77
L 2 1/2x2 1/2x1/4	4.1	60	58
L 2 1/2x2 1/2x5/16	5.3	49	49
L 2 1/2x2 1/2x3/8	5.3	42	42
L 3x3x3/16	3.7	68	65
L 3x3x1/4	4.9	50	48
L 3x3x5/16	6.1	40	40
L 3x3x3/8	7.2	35	33

ANGLES - CHARLOTTE, NC

MATERIAL DESCRIPTION	WT / FT	PCS / BUNDLE	
		20'	40'
L 1x1x1/8	0.8	298	298
L 1x1x3/16	1.2	204	204
L 1x1x1/4	1.5	162	162
L 1 1/4x1 1/4x1/8	1.0	234	234
L 1 1/4x1 1/4x3/16	1.5	156	156
L 1 1/4x1 1/4x1/4	1.9	124	124
L 1 1/2x1 1/2x1/8	1.2	193	193
L 1 1/2x1 1/2x3/16	1.8	132	132
L 1 1/2x1 1/2x1/4	2.3	99	99
L 1 3/4x1 3/4x1/8	1.4	164	164
L 1 3/4x1 3/4x3/16	2.1	112	112
L 1 3/4x1 3/4x1/4	2.8	84	84
L 2x1 1/2x1/8	1.4	70	70
L 2x1 1/2x3/16	2.1	70	70
L 2x1 1/2x1/4	2.8	55	55
L 2x2x1/8	1.7	145	145
L 2x2x3/16	2.4	95	95
L 2x2x1/4	3.2	72	72

ANGLES - CAMBRIDGE, ON

MATERIAL DESCRIPTION	WT / FT	PCS / BUNDLE	
		20'	40'
L 3/4x3/4x1/8	0.6	413	
L 1x1x1/8	0.8	314	323
L 1x1x3/16	1.2	219	219
L 1x1x1/4	1.5	171	178
L 1 1/4x1 1/4x1/8	1.0	248	255
L 1 1/4x1 1/4x3/16	1.5	173	173
L 1 1/4x1 1/4x1/4	1.9	135	135
L 1 1/2x1 1/2x1/8	1.2	201	208
L 1 1/2x1 1/2x3/16	1.8	143	143
L 1 1/2x1 1/2x1/4	2.3	111	111
L 1 3/4x1 3/4x1/8	1.4	171	176
L 1 3/4x1 3/4x3/16	2.1	120	121
L 1 3/4x1 3/4x1/4	2.8	94	88
L 2x1 1/2x1/8	1.4	173	148
L 2x1 1/2x3/16	2.1	112	104
L 2x1 1/2x1/4	2.8	95	86
L 2x2x1/8	1.7	152	152
L 2x2x3/16	2.4	103	104
L 2x2x1/4	3.2	81	81
L 2x2x5/16	3.9	81	81

ANGLES - WHITBY, ON

MATERIAL DESCRIPTION	PCS/ BUNDLE		
	WT / FT	20'	40'
L 2x2x1/8	1.7	180	153
L 2x2x3/16	2.4	126	98
L 2x2x1/4	3.2	81	81
L 2x2x5/16	3.9	80	62
L 2x2x3/8	4.7	54	54
L 2 1/2x2x3/16	2.8	112	91
L 2 1/2x2x1/4	3.6	84	70
L 2 1/2x2 1/2x3/8	5.3	56	49
L 2 1/2x2 1/2x3/16	3.1	97	83
L 2 1/2x2 1/2x1/4	4.1	77	63
L 2 1/2x2 1/2x5/16	5.0	63	49
L 2 1/2x2 1/2x3/8	5.9	49	42
L 2 1/2x2 1/2x1/2	7.7	35	28
L 3x2x3/16	3.1	80	80
L 3x2x1/4	4.1	75	60
L 3x2x5/16	5.0	60	50
L 3x2x3/8	5.9	50	40
L 3x2x1/2	7.7	25	25
L 3x2 1/2x1/4	4.5	70	55
L 3x2 1/2x5/16	5.6	55	40
L 3x2 1/2x3/8	6.6	35	35
L 3x3x3/16	3.7	85	70
L 3x3x1/4	4.9	65	50
L 3x3x5/16	6.1	50	40
L 3x3x3/8	7.2	40	35
L 3x3x1/2	9.4	30	25
L 3 1/2x2 1/2x1/4	4.9	65	50
L 3 1/2x2 1/2x5/16	6.1	40	40
L 3 1/2x2 1/2x3/8	7.2	40	35
L 3 1/2x2 1/2x1/2	9.4	25	25
L 3 1/2x3 1/2x1/4	5.8	56	45
L 3 1/2x3 1/2x5/16	7.2	46	36
L 3 1/2x3 1/2x3/8	8.5	37	29
L 3 1/2x3 1/2x1/2	11.1	29	23
L 4x3x1/4	5.8	56	45
L 4x3x5/16	7.2	45	36
L 4x3x3/8	8.5	37	29
L 4x3x1/2	11.1	29	23

MATERIAL DESCRIPTION	PCS/ BUNDLE		
	WT / FT	40'	60'
L 4x4x1/4	6.6	48	37
L 4x4x5/16	8.2	37	29
L 4x4x3/8	9.8	33	25
L 4x4x1/2	12.8	25	20
L 4x4x5/8	15.7	20	15
L 4x4x3/4	18.5	17	13
L 5x3x1/4	6.6	48	37
L 5x3x5/16	8.2	37	29
L 5x3x3/8	9.8	33	25
L 5x3x1/2	12.8	25	20
L 5x3 1/2x1/4	7.0	46	37
L 5x3 1/2x5/16	8.7	37	30
L 5x3 1/2x3/8	10.4	31	25
L 5x3 1/2x1/2	13.6	23	18
L 5x5x5/16	10.3	31	25
L 5x5x3/8	12.3	26	21
L 5x5x1/2	16.2	20	16
L 5x5x5/8	20.0	13	13
L 5x5x3/4	23.6	11	11
L 6x3 1/2x5/16	9.8	33	25
L 6x3 1/2x3/8	11.7	27	21
L 6x3 1/2x1/2	15.3	15	15
L 6x4x5/16	10.3	31	25
L 6x4x3/8	12.3	26	21
L 6x4x1/2	16.2	20	16
L 6x4x5/8	20.0	13	13
L 6x4x3/4	23.6	11	11
L 6x6x3/8	14.9	21	17
L 6x6x1/2	19.6	17	13
L 6x6x5/8	24.2	13	10
L 6x6x3/4	28.7	11	9
L 7x4x3/8	13.6	23	19
L 7x4x1/2	17.9	18	14
L 7x4x5/8	22.1	11	11
L 7x4x3/4	26.2	12	10
L 8x8x1/2	26.4	11	9
L 8x8x5/8	32.7	6	6
L 8x8x3/4	38.9	6	6
L 8x8x1	51.0	5	5

CHANNELS - MIDLOTHIAN, TX

MATERIAL DESCRIPTION	PCS / BUNDLE	
	20'	40'
C 6x8.2	24	24
C 6x10.5	18	18
C 8x11.5	16	16
C 8x13.75	12	12
C 8x18.75	8	8
C 10x15.3	12	12
C 10x20	8	8
C 10x25	8	8
C 10x30	8	8
C 12x20.7	8	8
C 12x25	8	8
C 12x30	8	8
C 15x33.9	6	6
C 15x40	6	6
C 15x50	4	4

CHANNELS - CARTERSVILLE, GA

MATERIAL DESCRIPTION	PCS / BUNDLE	
	20'	40'
C 6x8.2	30	30
C 6x10.5	24	21
C 6x13	18	18
C 7x9.8	24	24
C 7x12.25	20	20
C 7x14.75	16	16
C 8x11.5	20	20
C 8x13.75	16	16
C 8x18.75	12	12
C 9x13.4	16	16
C 9x15	16	16
C 9x20	24	12
C 10x15.3	16	16
C 10x20	12	12
C 10x25	8	8
C 10x30	8	8
C 12x20.7	12	12
C 12x25	10	10
C 12x30	8	8

CHANNELS - JACKSON, TN

MATERIAL DESCRIPTION	PCS / BUNDLE	
	20'	40'
C 3x3.5	64	64
C 3x4.1	56	56
C 3x5	48	48
C 3x6	40	40
C 4x4.5	48	48
C 4x5.4	42	42
C 4x6.25	36	36
C 4x7.25	30	30
C 5x6.7	28	28
C 5x9	20	20
C 6x8.2	24	24
C 6x10.5	16	16

CHANNELS - WHITBY, ON

MATERIAL DESCRIPTION	PCS / BUNDLE	
	20'	40'
C 3x3.5	48	48
C 3x4.1	48	48
C 3x5	48	48
C 3x6	48	40
C 4x4.5	36	36
C 4x5.4	36	36
C 4x6.25	36	36
C 4x7.25	30	30
C 5x6.7	48	32
C 5x9	32	24
C 6x8.2	42	30
C 6x10.5	30	24
C 6x13	24	18
C 7x9.8	30	24
C 7x12.25	24	18
C 7x14.75	18	12
C 8x11.5	28	20
C 8x13.75	24	16
C 8x18.75	16	12
C 9x13.4	24	16
C 9x15	20	16
C 9x20	20	12
C 10x15.3	20	16
C 10x20	16	12
C 10x25	12	8
C 10x30	8	8
C 12x20.7	12	12
C 12x25	12	10

MISCELLANEOUS CHANNELS - WHITBY, ON

MATERIAL DESCRIPTION	PCS / BUNDLE	
	20'	40'
MC 3x7.1	40	24

MISCELLANEOUS CHANNELS - MIDLOTHIAN, TX

MATERIAL DESCRIPTION	PCS / BUNDLE	
	20'	40'
MC 18x42.7	4	4
MC 18x45.8	4	4
MC 18x51.9	4	4
MC 18x58	4	4

MISCELLANEOUS CHANNELS - CARTERSVILLE, GA

MATERIAL DESCRIPTION	PCS / BUNDLE	
	20'	40'
MC 4x13.8	18	18
MC 6x12	18	18
MC 6x15.1	15	15
MC 6x15.3	15	15
MC 6x16.3	15	15
MC 6x18	12	12
MC 7x19.1	12	12
MC 7x22.7	10	10
MC 8x8.5	24	24
MC 8x18.7	12	12
MC 8x20	12	12
MC 8x21.4	10	10
MC 8x22.8	10	10
MC 9x23.9	8	8
MC 9x25.4	8	8
MC 10x8.4	28	28
MC 10x22	10	8
MC 10x25	10	8
MC 10x28.5	8	8
MC 10x33.6	7	7
MC 10x41.1	6	6
MC 12x10.6	24	20
MC 12x14.3	16	16
MC 12x31	8	8
MC 12x35	6	6
MC 12x40	6	6
MC 12x45	5	5
MC 12x50	4	4
MC 13x31.8	7	7
MC 13x35	6	6
MC 13x40	6	6
MC 13x50	4	4

FLATS - CARTERSVILLE, GA

MATERIAL DESCRIPTION	WT / FT	PCS / BUNDLE 20'
F 1/4x6 1/2	5.5	40
F 1/4x7	6.0	37
F 1/4x8	6.8	33
F 1/4x9	7.7	28
F 1/4x10	8.5	26
F 1/4x12	10.2	22
F 5/16x7	7.4	30
F 5/16x8	8.5	26
F 3/8x6 1/2	8.3	30
F 3/8x7	8.9	25
F 3/8x8	10.2	22
F 3/8x9	11.5	19
F 3/8x10	12.8	17
F 3/8x11	14.0	16
F 3/8x12	15.3	14
F 1/2x6 1/2	11.1	20
F 1/2x7	11.9	18
F 1/2x8	13.6	16
F 1/2x9	15.3	14
F 1/2x10	17.0	13
F 1/2x11	18.7	12
F 1/2x12	20.4	11
F 1/2x14	23.8	9
F 5/8x7	14.9	15
F 5/8x8	17.0	13
F 5/8x9	21.3	11

MATERIAL DESCRIPTION	WT / FT	PCS / BUNDLE 20'
F 5/8x10	21.3	10
F 5/8x11	23.4	10
F 5/8x12	25.5	8
F 5/8x14	29.8	7
F 3/4x7	17.9	12
F 3/4x8	20.4	11
F 3/4x9	23.0	9
F 3/4x10	25.5	8
F 3/4x11	28.1	8
F 3/4x12	30.6	7
F 3/4x14	35.7	6
F 7/8x8	23.8	9
F 1 1/8x8	30.6	7
F 1 1/4x8	34.0	6
F 1 1/2x5	25.5	8
F 1 1/2x8	40.8	5
F 1x7	23.8	9
F 1x8	27.2	8
F 1x9	30.6	7
F 1x10	34.0	6
F 1x11	37.4	6
F 1x12	40.8	5
F 1x14	47.6	5
F 2x7	47.6	5
F 2x8	54.4	4

FLATS - CHARLOTTE, NC

MATERIAL DESCRIPTION	WT / FT	PCS / BUNDLE 20'
F 1/4x1	0.9	276
F 1/4x1 1/4	1.1	229
F 1/4x1 1/2	1.3	184
F 1/4x1 3/4	1.7	161
F 1/4x2	1.7	144
F 1/4x2 1/4	1.9	125
F 1/4x2 1/2	2.1	110
F 5/16x1	1.1	216
F 5/16x1 1/2	1.6	152
F 5/16x2	2.1	120
F 3/8x3/4	1.0	180
F 3/8x1	1.3	180
F 3/8x1 1/4	1.6	150
F 3/8x1 1/2	1.9	120
F 3/8x1 3/4	2.2	105
F 3/8x2	2.6	90
F 3/8x2 1/4	2.9	85
F 1/2x3/4	1.3	132
F 1/2x1	1.7	132
F 1/2x1 1/4	2.1	110
F 1/2x1 1/2	2.6	88
F 1/2x1 3/4	3.0	77
F 1/2x2	3.4	66
F 1/2x2 1/4	3.8	65
F 1/2x2 1/2	4.3	55

FLATS - JACKSON, TN

MATERIAL DESCRIPTION	WT / FT	PCS / BUNDLE 20'
F 1/4x2	1.7	145
F 1/4x2 1/4	1.9	125
F 1/4x2 1/2	2.1	115
F 1/4x3	2.6	96
F 1/4x3 1/2	3.0	81
F 1/4x4	3.4	72
F 1/4x4 1/2	3.8	63
F 1/4x5	4.3	56
F 1/4x5 1/2	4.7	52
F 1/4x6	5.1	48
F 5/16x2	2.1	115
F 5/16x2 1/2	2.7	90
F 5/16x3	3.2	76
F 5/16x3 1/2	3.7	66
F 5/16x4	4.3	57
F 5/16x4 1/2	4.8	51
F 5/16x5	5.3	46
F 5/16x5 1/2	5.8	42
F 5/16x6	6.4	38
F 3/8x2	2.6	95
F 3/8x3	3.8	64
F 3/8x3 1/2	4.5	54
F 3/8x4	5.1	48
F 3/8x4 1/2	5.7	42
F 3/8x5	6.4	38
F 3/8x5 1/2	7.0	34
F 3/8x6	7.7	32
F 1/2x2	3.4	70
F 1/2x2 1/2	4.3	55
F 1/2x3	5.1	48
F 1/2x3 1/2	6.0	42
F 1/2x4	6.8	36
F 1/2x4 1/2	7.7	30
F 1/2x5	8.5	28
F 1/2x5 1/2	9.4	24

MATERIAL DESCRIPTION	WT / FT	PCS / BUNDLE 20'
F 1/2x6	10.2	24
F 5/8x2	4.3	55
F 5/8x2 1/2	5.3	45
F 5/8x3	6.4	36
F 5/8x3 1/2	7.4	33
F 5/8x4	8.5	27
F 5/8x4 1/2	9.6	24
F 5/8x5	10.6	22
F 5/8x5 1/2	11.7	20
F 5/8x6	12.8	18
F 3/4x2	5.1	45
F 3/4x2 1/2	6.4	35
F 3/4x3	7.7	32
F 3/4x3 1/2	8.9	27
F 3/4x4	10.2	24
F 3/4x4 1/2	11.5	21
F 3/4x5	12.8	18
F 3/4x5 1/2	14.0	16
F 3/4x6	15.3	16
F 1 1/4x2 1/2	10.6	20
F 1 1/4x3	12.8	16
F 1 1/4x4	17.0	12
F 1 1/2x2 1/2	12.8	15
F 1 1/2x3	15.3	16
F 1 1/2x4	20.4	12
F 1x2	6.8	35
F 1x2 1/2	8.5	25
F 1x3	9.1	24
F 1x3 1/2	11.9	21
F 1x4	13.6	18
F 1x4 1/2	15.3	15
F 1x5	17.0	14
F 1x5 1/2	18.7	12
F 1x6	20.4	12

FLATS - WILTON, IA

MATERIAL DESCRIPTION	PCS / BUNDLE	
	WT / FT	20'
F 3/16x1 1/2	1.0	255
F 3/16x2	1.3	192
F 3/16x3	0.6	128
F 1/4x1	0.9	288
F 1/4x1 1/4	1.1	230
F 1/4x1 1/2	1.3	192
F 1/4x1 3/4	1.5	168
F 1/4x2	1.7	144
F 1/4x2 1/4	1.9	130
F 1/4x2 1/2	2.1	115
F 1/4x2 3/4	2.3	104
F 1/4x3	2.6	96
F 1/4x3 1/2	3.0	84
F 1/4x4	3.4	72
F 1/4x5	4.3	58
F 1/4x5.980	5.1	48
F 1/4x6	5.1	48
F 5/16x1 1/4	1.3	180
F 5/16x1 1/2	1.6	152
F 5/16x1 3/4	1.9	133
F 5/16x2	2.1	114
F 5/16x2 1/2	2.7	90
F 5/16x3	3.2	76
F 5/16x3 1/2	3.7	66
F 5/16x4	4.3	57
F 5/16x5	5.3	46
F 5/16x6	6.4	38
F 3/8x1	1.3	192
F 3/8x1 1/4	1.6	150
F 3/8x1 1/2	1.9	128
F 3/8x1 3/4	2.2	112
F 3/8x2	2.6	96
F 3/8x2 1/4	2.9	85
F 3/8x2 3/4	3.5	68
F 3/8x3	3.8	64
F 3/8x3 1/2	4.5	54
F 3/8x4	5.1	48
F 3/8x5	6.4	38
F 3/8x6	7.7	32
F 1/2x1	1.7	144
F 1/2x1 1/4	2.1	110
F 1/2x1 1/2	0.9	96
F 1/2x1 3/4	3.0	84
F 1/2x2	3.4	72

MATERIAL DESCRIPTION	PCS / BUNDLE	
	WT / FT	20'
F 1/2x2 1/4	3.8	65
F 1/2x2 1/2	4.3	55
F 1/2x2 3/4	4.7	52
F 1/2x3	5.1	48
F 1/2x3 1/2	6.0	42
F 1/2x4	6.8	36
F 1/2x5	8.5	28
F 1/2x6	10.2	24
F 5/8x1	2.1	108
F 5/8x1 1/4	2.7	90
F 5/8x1 1/2	3.2	72
F 5/8x1 3/4	3.7	63
F 5/8x2	4.3	54
F 5/8x2 1/2	3.2	45
F 5/8x3	6.4	36
F 5/8x3 1/2	7.4	33
F 5/8x4	8.5	27
F 5/8x5	10.6	22
F 5/8x6	12.8	18
F 3/4x1	2.6	96
F 3/4x1 1/4	3.2	70
F 3/4x1 1/2	3.8	64
F 3/4x1 3/4	4.5	56
F 3/4x2	5.1	48
F 3/4x2 1/2	6.4	35
F 3/4x3	7.7	32
F 3/4x3 1/2	8.9	27
F 3/4x4	10.2	24
F 3/4x5	12.8	18
F 3/4x6	15.3	16
F 1 1/4x2	8.5	24
F 1 1/4x2 1/2	10.6	20
F 1 1/4x3	12.8	16
F 1 1/2x2	10.2	24
F 1x1 1/4	4.3	50
F 1x1 1/2	5.1	48
F 1x1 3/4	6.0	42
F 1x2	6.8	36
F 1x2 1/2	8.5	25
F 1x2 3/4	9.4	25
F 1x3	10.2	24
F 1x3 1/2	11.9	21
F 1x4	13.6	18
F 1x5	17.0	14
F 1x6	20.4	12

FLATS - WHITBY, ON

MATERIAL DESCRIPTION	WT / FT	PCS / BUNDLE 20'
F 3/8x5	6.4	45
F 3/8x6	7.7	39
F 3/8x7	8.9	36
F 3/8x8	10.2	30
F 3/8x10	12.8	24
F 1/2x5	8.5	36
F 1/2x6	10.2	30
F 1/2x7	11.9	27
F 1/2x8	40.8	22
F 1/2x10	17.0	18
F 5/8x5	10.6	30
F 5/8x6	12.8	24
F 5/8x7	14.9	21
F 5/8x8	17.0	18
F 3/4x5	12.8	24
F 3/4x6	15.3	18
F 3/4x7	17.9	18
F 3/4x8	20.4	14
F 1x5	17.0	15
F 1x6	20.4	15
F 1x7	23.8	12
F 1x8	27.2	10

FLATS - CAMBRIDGE, ON

MATERIAL DESCRIPTION	WT / FT	PCS / BUNDLE 20'
F 3/16x3/4	0.5	544
F 3/16x1	0.6	387
F 3/16x1 1/4	0.8	314
F 3/16x1 1/2	1.0	264
F 3/16x2	1.3	197
F 3/16x3	1.9	136
F 1/4x3/4	0.6	400
F 1/4x1	0.9	294
F 1/4x1 1/4	1.1	241
F 1/4x1 1/2	1.3	200
F 1/4x1 3/4	1.5	175
F 1/4x2	1.7	144
F 1/4x2 1/4	1.9	135
F 1/4x2 1/2	2.1	117
F 1/4x2 3/4	2.3	112
F 1/4x3	2.6	100
F 1/4x3 1/4	2.8	96
F 1/4x3 1/2	3.0	84
F 1/4x3 3/4	3.2	81
F 1/4x4	3.4	75
F 5/16x3/4	0.8	316
F 5/16x1	1.1	240
F 5/16x1 1/4	1.3	190
F 5/16x1 1/2	1.6	160
F 5/16x1 3/4	1.9	140
F 5/16x2	2.1	120
F 5/16x2 1/2	2.7	95
F 5/16x3	3.2	80
F 5/16x3 1/2	3.7	69
F 5/16x4	4.3	60
F 3/8x3/4	1.0	252
F 3/8x1	1.3	204
F 3/8x1 1/4	1.6	160
F 3/8x1 1/2	1.9	136
F 3/8x1 3/4	2.2	112
F 3/8x2	2.6	102
F 3/8x2 1/4	2.9	90
F 3/8x2 3/4	3.5	72
F 3/8x3	3.8	68
F 3/8x3 1/4	4.1	64
F 3/8x3 1/2	4.5	57
F 3/8x4	5.1	51
F 7/16x1 1/2	2.2	108
F 1/2x3/4	1.3	192

MATERIAL DESCRIPTION	WT / FT	PCS / BUNDLE 20'
F 1/2x1	1.7	144
F 1/2x1 1/4	2.1	120
F 1/2x1 1/2	2.6	96
F 1/2x1 3/4	3.0	84
F 1/2x2	3.4	72
F 1/2x2 1/4	3.8	65
F 1/2x2 1/2	2.6	60
F 1/2x2 3/4	4.7	56
F 1/2x3	5.1	48
F 1/2x3 1/2	6.0	42
F 1/2x3 3/4	6.4	39
F 1/2x4	6.8	36
F 5/8x1	2.1	120
F 5/8x1 1/4	2.7	100
F 5/8x1 1/2	3.2	80
F 5/8x1 3/4	3.7	69
F 5/8x2	4.3	60
F 5/8x2 1/2	5.3	50
F 5/8x2 3/4	5.8	44
F 5/8x3	6.4	39
F 5/8x3 1/2	7.4	34
F 5/8x4	8.5	30
F 3/4x1	2.6	96
F 3/4x1 1/4	3.2	80
F 3/4x1 1/2	3.8	64
F 3/4x1 3/4	4.5	57
F 3/4x2	5.1	48
F 3/4x2 1/4	5.7	45
F 3/4x2 1/2	6.4	38
F 3/4x2 3/4	7.0	36
F 3/4x3	7.7	33
F 3/4x3 1/4	8.3	30
F 7/8x1 1/2	4.5	56
F 7/8x2	6.0	42
F 7/8x3	8.9	28
F 1x1 1/4	4.3	60
F 1x1 1/2	5.1	48
F 1x1 3/4	6.0	42
F 1x2	6.8	36
F 1x2 1/2	8.5	30
F 1x2 3/4	9.4	28
F 1x3	10.2	24
F 1x3 1/4	11.1	23

SPECIAL SHAPES





GERDAU SPECIAL SHAPES PRODUCTS IN USE

ONE WORLD TRADE CENTER

New York City

One World Trade Center is a historical landmark skyscraper located in Lower Manhattan, New York City. It stands as the tallest building in the Western Hemisphere, reaching a symbolic height of 1,776 feet.

Visitors are safely transported to the top of the tower thanks to elevator guide rails produced at our Selkirk, MB mill. Gerdaу is a leader in elevator guide rails, and our steel can be found in many of the tallest buildings in the world.

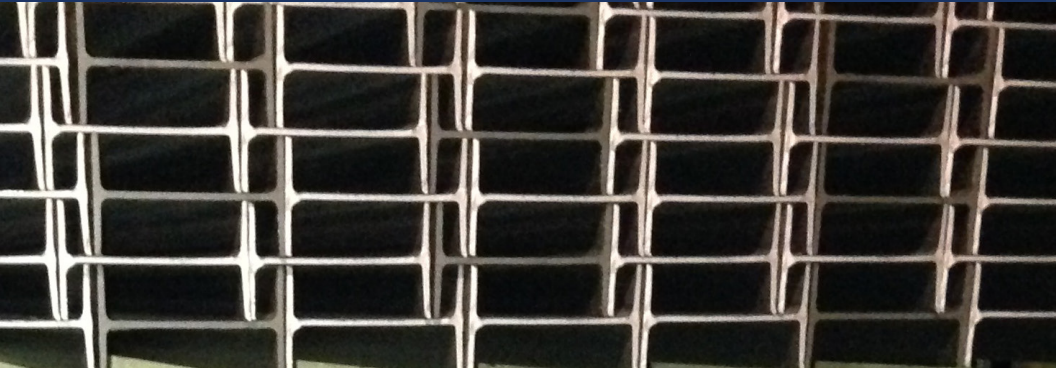
Gerdaу's larger elevator guide rail sizes as well as our advanced machining practices that create ultrasоoth surfaces allowed modern high-speed elevators to be installed in this project. This ensures visitors travel quickly and safely to the top.

**OUR MANITOBA MILL HAS UNIQUE
CAPABILITIES TO PRODUCE A WIDE RANGE
OF SPECIAL GRADES, SHAPES, AND SIZES**



GERDAU

Shape the future



ENVIRONMENTAL

Gerdau Manitoba is one of the cleanest steel mills in the world

Manitoba's electricity is 97% derived from renewable hydropower

Our steel has greater than 96% recycled content



CAPABILITIES

Manitoba is a special sections mill with more than 90 steel grades and 300 sections

Inventory management and just-in-time shipments to ensure business continuity

Value-added capabilities: straightening, hole punching, welding, coating, milling, drilling, and more

A36, CSA 44W - 65W, A572 up to GR65

CVN grades up to 70 ksi with Cat. 2

CSA Gr400R/400W rebar

10XX, 15XX, 41XX, 15BXX, 50BXX, 51BXX, 41BXX

Billet capacity for sales in sizes from 6.75" to 10"x16"

**GERDAU**

Shape the future

MANITOBA IS NOT JUST YOUR SPECIALTY MILL

FLATS

WIDTH	THICKNESS (CURRENT)	THICKNESS (CAPABILITY)
2"	1 1/4" - 1 1/2"	1 - 1/2"
3"	1 1/2" - 2"	2"
4"	1/4" - 3"	3"
5"	1/4" - 3"	4"
6"	1/4" - 4 1/2"	4 - 1/2"
7"	1/4" - 2"	4 - 1/2"
8"	1/4" - 3"	3"
9"	1/2" - 1"	3"
10"	1/2" - 1 3/4"	2"
11"	1" - 1 1/2"	5"
12"	3/4" - 1 3/4"	5"
13"	1"	5"
14"	3/4" - 2 1/4"	3"
16"		1" - 3"

ROUNDS

CAPABILITY
3/4"
7/8"
1"
1" - 1/8"
1" - 1/4"
1" - 3/8"
1" - 1/2"
1" - 5/8"
1" - 3/4"
2"
2" - 1/2"
3"
3" - 1/2"
3" - 3/8"
4"
4" - 1/2"
4" - 3/4"
5"
5" - 1/8"

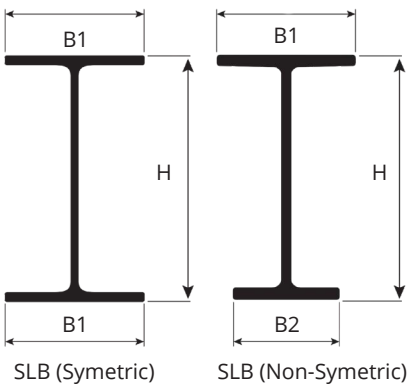
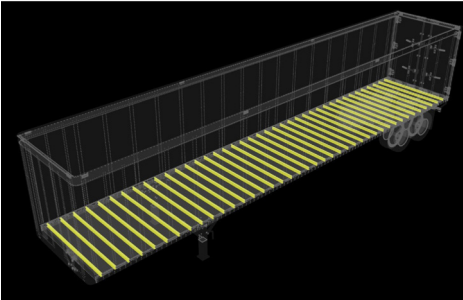


SUPER LIGHT BEAMS

Gerda Manitoba is a major supplier of special steel sections, with Value Added Capabilities supplying Super Light Beams worldwide

Value Added Capabilities include:

- Precision cut to length
- Welded end plates
- Wax coating
- Hole punching
- Galvanizing



SIZE	WEIGHT (LBS / FT) (KG / M)	B1 - IN (MM)	B2 - IN (MM)	H - IN (MM)
SLB 4" x 3.20# G80	3.20	2.25	2.25	4.00
	4.76	57.15	57.15	101.60
SLB 4" x 3.45# G80	3.45	2.25	2.25	4.00
	5.13	57.15	57.15	101.60
SLB 4" x 3.64# G80	3.64	2.25	2.25	4.00
	5.42	57.15	57.15	101.60
SLB 4" x 3.26# G80	3.26	2.25	1.50	4.00
	4.85	57.15	38.10	101.60
SLB 4" x 3.47# G80	3.47	2.25	1.75	4.00
	5.16	57.15	44.85	101.60
SLB 3" x 2.9# G80	2.90	2.25	2.25	3.00
	4.32	57.15	57.15	76.20
SLB 3" x 3.05# G80	3.05	2.25	2.25	3.00
	4.54	57.15	57.15	76.20
SLB 3" x 2.54# G60	2.54	2.00	2.00	3.00
	3.78	50.80	50.80	76.20

For profile, tolerances, or additional special requirements,
reach out to your sales representative.

PILING





Photo credit Triad Metals

GERDAU PILING IN USE

ROCKAWAY BEACH

New York City

Rockaway Beach is a neighborhood located in the borough of Queens, New York City. It is renowned for the Rockaway Beach and Boardwalk, the largest urban beach in the United States. The dune is reinforced using PZC sheet piling to defend inland areas from erosion and wave attacks during storm events. This limits storm surge inundation and cross-island flooding.

Gerdau contributed to this project by providing its customer with custom ordered lengths that helped optimize logistics and reduced the need for additional processing of the sheets, resulting in a lower cost for the overall project.

PILING PRODUCTS AND BUNDLES

H-PILE: MIDLOTHIAN, TX & PETERSBURG, VA

SHAPE	MILL	PCS/ BUNDLE
H8x36	TX, VA	6
H10x42	TX, VA	4
H10x57	VA	4
H12x53 , 63	VA	4
H12x74	VA	3
H12x84	VA	2
H14x73 , 89 , 102 , 117	VA	2
H16x88 , 101 , 121 , 141	VA	1

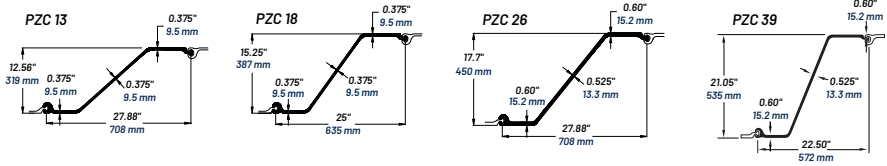
PZC™ SHEET PILE: PETERSBURG, VA

SHAPE	MILL	PCS/ BUNDLE
PZC 12	VA	4
PZC 13	VA	4
PZC 14	VA	4
PZC 17	VA	4
PZC 18	VA	4
PZC 19	VA	4
PZC 25	VA	4
PZC 26	VA	4
PZC 28	VA	4
PZC 37	VA	4
PZC 39	VA	4
PZC 41	VA	4

PS FLAT SHEET: MIDLOTHIAN, TX

SHAPE	MILL	PCS/ BUNDLE
PS 27.5	TX	4
PS 31	TX	4

GERDAU SHEET PILING



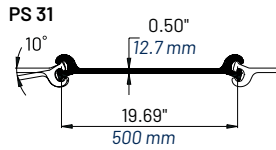
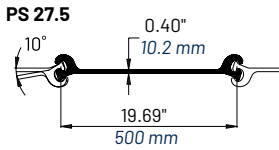
PZC™ SHEET PILING PROPERTIES

Section	PER SINGLE SECTION										PER UNIT OF WALL					
	Nominal Width	Wall Depth (Height)	Web Thickness	Flange Thickness	Area	Weight	Moment of Inertia	Elastic Section Modulus	Plastic Section Modulus	Total Surface Area	Nominal Coating Area	Cross Sectional Area	Weight	Moment of Inertia	Elastic Section Modulus	Plastic Section Modulus
	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in ² (cm ²)	lbs/ft (kg/m)	in ⁴ (cm ⁴)	in ³ (cm ³)	in ³ (cm ³)	ft ² /ft (m ² /m)	ft ² /ft (m ² /m)	in ² /ft (cm ² /m)	lbs/ft ² (kg/m ²)	in ⁴ /ft (cm ⁴ /m)	in ³ /ft (cm ³ /m)	in ³ /ft (cm ³ /m)
PZC12	27.88 708	12.52 318	0.335 8.5	0.335 8.5	13.64 88.0	46.4 69.1	324.5 13,510	51.8 850	61.51 1,008	6.1 1.86	5.6 1.71	5.87 124.3	20.0 97.6	139.7 19,080	22.3 1,200	26.47 1,423
PZC13	27.88 708	12.56 319	0.375 9.5	0.375 9.5	14.82 95.6	50.4 75.1	353.0 14,690	56.2 920	66.93 1,097	6.1 1.86	5.6 1.71	6.38 135.1	21.7 106.0	152.0 20,760	24.2 1,300	28.81 1,549
PZC14	27.88 708	12.60 320	0.420 10.7	0.420 10.7	16.15 104.2	55.0 81.8	381.6 15,890	60.5 1,190	72.61 1,090	6.1 1.86	5.6 1.71	6.95 147.2	23.7 115.5	164.3 22,440	26.0 1,400	31.25 1,680
PZC17	25.00 635	15.21 386	0.335 8.5	0.335 8.5	13.64 88.0	46.4 69.1	491.8 20,470	64.6 1,060	76.07 1,246	6.1 1.86	5.6 1.71	6.55 138.6	22.3 108.8	236.1 32,235	31.0 1,670	36.5 1,962
PZC18	25.00 635	15.25 387	0.375 9.5	0.375 9.5	14.82 95.6	50.4 75.1	532.2 22,150	69.8 1,145	82.2 1,347	6.1 1.86	5.6 1.71	7.12 150.6	24.2 118.2	255.5 34,890	33.5 1,800	39.46 2,121
PZC19	25.00 635	15.30 388	0.420 10.7	0.420 10.7	16.16 104.2	55.0 81.8	576.3 23,990	75.3 1,235	89.14 1,461	6.1 1.86	5.6 1.71	7.75 164.1	26.4 128.8	276.6 37,780	36.1 1,945	42.79 2,301
PZC25	27.88 708	17.66 449	0.485 12.3	0.560 14.2	20.40 131.6	69.4 103.3	938.7 39,070	106.3 1,740	126.77 2,077	6.65 2.03	6.15 1.87	8.78 185.9	29.9 145.9	404.1 55,190	45.7 2,455	54.56 2,933
PZC26	27.88 708	17.70 450	0.525 13.3	0.600 15.2	21.27 140.1	73.9 110.0	994.3 41,390	112.4 1,840	134.46 2,203	6.65 2.03	6.15 1.87	9.35 197.9	31.8 155.4	428.1 58,460	48.4 2,600	57.89 3,112
PZC28	27.88 708	17.75 451	0.570 14.5	0.645 16.4	23.22 149.8	79.0 117.6	1057 44,000	119.1 1,950	143.07 2,344	6.65 2.03	6.15 1.87	10.00 211.6	34.0 166.1	455.1 62,150	51.3 2,755	61.58 3,311
PZC37	22.50 572	21.01 534	0.485 12.3	0.560 14.2	20.44 131.9	69.6 103.9	1,352 56,270	128.7 2,109	152.3 2,496	6.75 2.06	6.3 1.92	10.90 230.7	37.1 181.2	721.1 98,470	68.6 3,688	81.20 4,366
PZC39	22.50 572	21.05 535	0.525 13.3	0.600 15.2	21.83 140.8	74.3 110.6	1,436 59,770	136.4 2,235	162.0 2,655	6.75 2.06	6.3 1.92	11.64 246.4	39.6 193.5	765.9 104,590	72.7 3,909	86.40 4,645
PZC41	22.50 572	21.09 536	0.570 14.5	0.645 16.4	23.10 149.0	78.6 117.0	1,512 62,930	143.4 2,350	170.8 2,799	6.75 2.06	6.3 1.92	12.32 260.8	41.9 204.7	806.4 110,120	76.5 4,113	91.10 4,898

*Both sides of sheet; excludes socket interior and ball of interlock.
Manufactured to ASTM A6 specifications.

ASTM DESIGNATION**	YIELD STRENGTH		APPLICATION
	ksi	MPa	
A572	60	415	Mill Standard Produced
A588	50	345	Atmospheric Corrosion
A690	50	345	Marine Environment

**Other grades available upon request.



PS (FLAT SHEET) PILING PROPERTIES

Section	PER SINGLE SECTION										PER UNIT OF WALL			
	Nominal Width in. (mm)	Depth (Height) in. (mm)	Wall Depth (Height) in. (mm)	Web Thickness in. (mm)	Area in. ² (cm ²)	Weight lbs/ft (kg/m)	Moment of Inertia in. ⁴ (cm ⁴)	Section Modulus in. ³ (cm ³)	Total Surface Area ft ² /ft (m ² /m)	Nominal Coating Area* ft ² /ft (m ² /m)	Area in. ² /ft (cm ² /m)	Weight lbs/ft ² (kg/m ²)	Moment of Inertia in. ⁴ /ft (cm ⁴ /m)	Section Modulus in. ³ /ft (cm ³ /m)
PS 27.5	19.69 500	2.83 72	3.55 90	0.40 10.2	13.26 85.5	45.1 67.1	5.0 207	3.2 52	4.50 1.37	3.64 1.11	8.08 171.0	27.5 134.2	3.0 414	1.9 103
PS 31	19.69 500	2.83 72	3.55 90	0.50 12.7	14.96 96.5	50.9 75.7	5.0 207	3.2 52	4.50 1.37	3.64 1.11	9.11 192.9	31.0 151.4	3.0 414	1.9 103

*Both sides of sheet; excludes socket interior and ball of interlock.
Manufactured to ASTM A6 specifications.

GRADE ⁽¹⁾	MINIMUM INTERLOCK STRENGTH ⁽²⁾		MINIMUM SWING ⁽³⁾
A572-50	20 kips/in.	(3,500 kN/m)	10 degrees
A572-60	24 kips/in.	(4,200 kN/m)	10 degrees

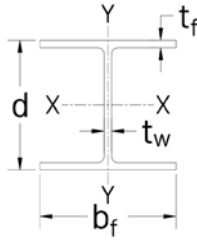
(1) Other grades available upon request.

(2) These minimum ultimate interlock strengths assume proper interlocking of sheets. To verify the strength of PS Sheet Piling, consider both yielding of the web and failure of the interlock.

(3) Swing reduces 1.5 degrees for each 10 feet (3 meters) in length over 70 feet (21 meters).



As a general rule, Gerdau advises against interlocking PS sections with other producers' section(s).
Gerdau PS 27.5 and PS 31 can be interlocked together. PS and Z-Piling sections should not be interlocked together.



H-PILE PROPERTIES

Section	THICKNESS						Axis X-X				Axis Y-Y				
	Weight	Area A	Depth d	Web b _f	Flange t _f	Web t _w	Coating Area	I	S	Z	r	I	S	Z	r
	lbs/ft (kg/m)	in. ² (cm ²)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	ft ² /ft ² (m ² /m ²)	in. ³ (cm ³)	in. ³ (cm ³)	in. ³ (cm ³)	in. (mm)	in. ⁴ (cm ⁴)	in. ³ (cm ³)	in. ³ (cm ³)	in. (mm)
HP 8x HP200x	36	10.6	8.02	8.16	0.445	0.445	3.92	119	29.8	33.6	3.36	40.3	9.88	15.2	1.95
	54	68.4	204	207	11.3	11.3	1.21	4,980	488	552	8.53	1,670	162	249	4.95
HP 10x HP250x	42	12.4	9.70	10.10	0.420	0.415	4.83	210	43.4	48.3	4.13	71.7	14.2	21.8	2.41
	62	79.8	246	256	10.70	10.5	1.50	8,750	711	792	10.5	3,000	234	358	6.13
	57	16.7	9.99	10.20	0.565	0.565	4.91	294	58.8	66.5	4.18	101	19.7	30.3	2.45
	85	109.0	254	259	14.4	14.4	1.50	12,300	968	1,090	10.6	4,230	325	500	6.23
HP 12x HP310x	53	15.5	11.80	12.00	0.435	0.435	5.82	393	66.7	74.0	5.03	127	21.1	32.2	2.86
	79	99.8	299	306	11.0	11.0	1.80	16,300	1,090	1,210	12.8	5,260	344	525	7.26
	63	18.4	11.90	12.10	0.515	0.515	5.86	472	79.1	88.3	5.06	153	25.3	38.7	2.88
	94	119.0	303	308	13.1	13.1	1.81	19,600	1,300	1,450	12.9	6,390	415	635	7.33
	74	21.8	12.10	12.20	0.610	0.605	5.91	569	93.8	105	5.11	186	30.4	46.6	2.92
	110	141.0	308	310	15.4	15.4	1.83	23,700	1,540	1,730	13.0	7,710	497	763	7.40
	84	24.6	12.30	12.30	0.685	0.685	5.97	650	106	120	5.14	213	34.6	53.2	2.94
	125	159.0	312	312	17.4	17.4	1.84	27,000	1,730	1,960	13.0	8,820	566	870	7.45
	89	25.9	12.36	12.32	0.720	0.720	6.04	689	111.6	126.3	5.16	225	36.5	56.2	2.94
	132	167	314	313	18.3	18.3	1.84	28,700	1,830	2,070	13.1	9,370	599	922	7.48
	102	29.9	12.56	12.64	0.819	0.819	6.17	811	129.3	147.6	5.20	276	43.7	67.1	3.04
	152	193	319	321	20.8	20.8	1.88	33,800	2,120	2,420	13.2	11,500	716	1,100	7.71
	117	34.4	12.76	12.87	0.929	0.929	6.26	946	148.2	170.8	5.24	331	51.4	79.3	3.11
	174	222	324	327	23.6	23.6	1.91	39,400	2,430	2,800	13.3	13,800	843	1,300	7.89
HP 14x HP360x	73	21.4	13.60	14.60	0.505	0.505	6.96	729	107	118	5.84	261	35.8	54.6	3.49
	108	138	346	370	12.8	12.8	2.15	30,300	1,750	1,940	14.8	10,800	585	891	8.86
	89	26.1	13.80	14.70	0.615	0.615	7.02	904	131	146	5.88	326	44.3	67.7	3.53
	132	168	351	373	15.6	15.6	2.16	37,500	2,140	2,380	14.9	13,500	724	1,110	8.96
	102	30.1	14.00	14.80	0.705	0.705	7.06	1050	150	169	5.92	380	51.4	78.8	3.56
	152	194	356	376	17.9	17.9	2.18	43,900	2,470	2,770	15.0	15,900	845	1,290	9.05
	117	34.4	14.20	14.90	0.805	0.805	7.12	1220	172	194	5.96	443	59.5	91.4	3.59
HP 16x HP410x	174	222	361	378	20.4	20.4	2.19	50,800	2,820	3,130	15.2	18,400	973	1,490	9.11
	88	25.8	15.30	15.70	0.540	0.540	7.52	1110	145	161	6.56	349	44.5	68.2	3.68
	131	167	398	399	13.7	13.7	2.29	46,201	2,376	2,683.3	16.7	14,526	729	1,117.6	9.35
	101	29.9	15.50	15.80	0.625	0.625	7.56	1300	168	187	6.59	412	52.2	80.1	3.71
	150	193	394	401	15.9	15.9	2.30	54,110	2,753	3,064.4	16.7	17,149	855	1,312.6	9.42
	121	35.8	15.80	15.90	0.705	0.705	7.62	1590	201	226	6.66	504	63.4	97.6	3.75
	180	231	401	404	19.1	19.1	2.32	66,180	3,294	3,703.5	16.9	20,978	1,039	1,599.4	9.53
	141	41.7	16.00	16.00	0.875	0.875	7.69	1870	234	264	6.70	599	74.9	116	3.79
	210	269	406	406	22.2	22.2	2.34	77,835	3,835	4,326.2	17.0	24,932	1,227	1,900.9	9.63



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