

Marino\WARE® Product Submittal Data

PRODUCT NAME: 1000JR200-97

05.42.00 Cold-Formed Metal Joist Framing

MARINO\WARE PART # 100RJ12

PROPERTIES:

A. Web (in)	10"	Yield Strength Fy (KSI)	50
B. Flange (in)	2"	Tensile Strength Fu (KSI)	65
C. Lip (in)	0.75"	Design Thickness (in)	0.1017
Mils	97	Minimum Thickness (in)	0.0966
Available Finish	G60, G90	Gauge	12

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	3.97
Cross Sectional Area: A (in ²)	0.823
Moment of Inertia: I_x (in ⁴)	17.4
Section Modulus: S_x (in ³)	3.48
Radius of Gyration: R_x (in)	4.60
Gross Moment of Inertia: I_y (in ⁴)	0.427
Gross Radius of Gyration: R_y (in)	0.721

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_{xe} (in ⁴)	17.4
Section Modulus: S_{xe} (in ³)	3.48
Allowable Bending Moment: Ma (in-k)	104.0
Allowable Shear Force: Va (K)	7.89

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: J_{x1000} (in ⁴)	2.84
Torsional Warping Constant: C_w (in ⁶)	11.9
Radius of Gyration on the Centroid Principal axis: Ro (in)	4.95

CODES & STANDARDS

- Framing meets ASTM A 1003, A 653, & C 955
- Tested to ASTM E 119, & E 492/E 989
- UL Fire Test Data: G563, G577, L567, & L580
- Intertek (Warnock Hersey) Fire Data: WHI 3099463, WHI 3101528

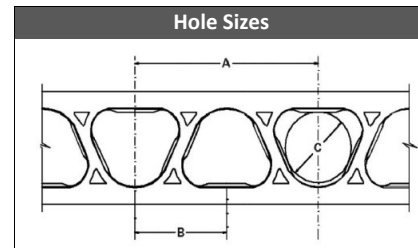
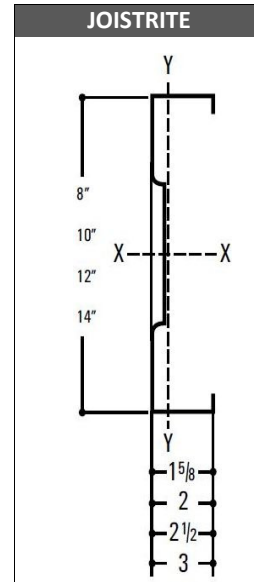
GREEN INFO LEED® v3

Available LEED® points in the following categories:

- MR Credit 2 - Construction Waste Management (1-2 points)
- MR Credit 4 - Recycled Content (1-2 points)
- MR Credit 5 - Regional Materials (1-2 points)

- Total Recycled Content: 34.9%
- Post Consumer Content: 24.3%
- Pre Consumer (Post Industrial) Content: 9.4%

- Also available in 9-1/4" and 11-1/4" Depths



Section	A (in)	B (in)	C
8"	14	7	5.5
10"	28	14	7.2
12"	35	17.5	9.2
14"	35	17.5	9.2



For more information, please contact Marino\WARE Technical Services at 866-545-1545.

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JOISTRITE SPAN TABLES (ft)

SECTION ID	15 psf Dead Load plus 40 psf Live Load						40 psf Dead Load plus 40 psf Live Load						15 psf Dead Load plus 60 psf Live Load					
	L/360			L/480			L/360			L/480			L/360			L/480		
	Single Span Joist Spacing (in.) o.c.			Single Span Joist Spacing (in.) o.c.			Single Span Joist Spacing (in.) o.c.			Single Span Joist Spacing (in.) o.c.			Single Span Joist Spacing (in.) o.c.			Single Span Joist Spacing (in.) o.c.		
	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24
800JR200-43	17.0	14.8	12.0	16.1	14.6	12.0	14.1	12.3	10.0	14.1	12.3	10.0	14.6	12.6	10.3	14.0	12.6	10.3
800JR200-54	19.0	17.3	15.1	17.3	15.7	13.7	17.3	15.7	13.7	17.3	15.7	13.7	16.6	15.1	13.2	15.1	13.7	12.0
800JR200-68	20.4	18.5	16.2	18.5	16.8	14.7	18.5	16.8	14.7	18.5	16.8	14.7	17.8	16.2	14.1	16.2	14.7	12.8
800JR200-97	22.6	20.5	17.9	20.5	18.7	16.3	20.6	18.7	16.3	20.6	18.7	16.3	19.7	17.9	15.7	17.9	16.3	14.2
800JR250-43	17.7	15.3	12.5	16.7	15.2	12.5	14.7	12.7	10.4	14.7	12.7	10.4	15.1	13.1	10.7	14.6	13.1	10.7
800JR250-54	19.8	18.0	15.7	18.0	16.3	14.3	18.0	16.3	13.9	18.0	16.3	13.9	17.3	15.7	13.7	15.7	14.3	12.5
800JR250-68	21.3	19.4	16.9	19.4	17.6	15.4	19.4	17.6	15.4	19.4	17.6	15.4	18.6	16.9	14.8	16.9	15.4	13.4
800JR250-97	23.7	21.5	18.8	21.5	19.5	17.1	21.5	19.6	17.1	21.5	19.6	17.1	20.7	18.8	16.4	18.8	17.1	14.9
800JR300-43	18.1	15.7	12.8	17.2	15.6	12.8	15.0	13.0	10.5	15.0	13.0	10.5	15.5	13.4	11.0	15.0	13.4	11.0
800JR300-54	20.2	18.4	16.1	18.4	16.7	14.6	18.4	16.7	14.0	18.4	16.7	14.0	17.7	16.1	14.0	16.1	14.6	12.7
800JR300-68	21.9	19.9	17.4	19.9	18.1	15.8	19.9	18.1	15.8	19.9	18.1	15.8	19.1	17.4	15.2	17.4	15.8	13.8
800JR300-97	24.7	22.4	19.6	22.4	20.4	17.8	22.4	20.4	17.8	22.4	20.4	17.8	21.5	19.6	17.1	19.6	17.8	15.5
1000JR200-54	22.4	20.3	17.8	20.3	18.5	16.2	20.4	18.5	15.7	20.4	18.5	15.7	19.6	17.8	15.5	17.8	16.2	14.1
1000JR200-68	24.0	21.8	19.1	21.8	19.8	17.3	21.9	19.9	17.3	21.9	19.9	17.3	21.0	19.1	16.7	19.1	17.3	15.1
1000JR200-97	26.7	24.2	21.2	24.2	22.0	19.2	24.3	22.0	19.3	24.3	22.0	19.3	23.3	21.2	18.5	21.2	19.2	16.8
1000JR250-54	23.3	21.1	18.5	21.1	19.2	16.8	21.2	19.2	15.9	21.2	19.2	15.9	20.3	18.5	16.1	18.5	16.8	14.7
1000JR250-68	25.1	22.8	19.9	22.8	20.7	18.1	22.8	20.7	17.9	22.8	20.7	17.9	21.9	19.9	17.4	19.9	18.1	15.8
1000JR250-97	27.9	25.4	22.1	25.4	23.0	20.1	25.4	23.1	20.1	25.4	23.1	20.1	24.4	22.1	19.3	22.1	20.1	17.6
1000JR300-54	23.8	21.6	18.9	21.6	19.6	17.2	21.6	19.6	16.0	21.6	19.6	16.0	20.8	18.9	16.5	18.9	17.2	15.0
1000JR300-68	25.8	23.4	20.5	23.4	21.3	18.6	23.4	21.3	18.2	23.4	21.3	18.2	22.5	20.5	17.9	20.5	18.6	16.2
1000JR300-97	29.0	26.4	23.0	26.4	24.0	20.9	26.4	24.0	20.9	26.4	24.0	20.9	25.4	23.0	20.1	23.0	20.9	18.3
1200JR200-54	25.7	23.3	20.0	23.3	21.2	18.5	23.3	20.7	13.8	23.3	20.7	13.8	22.4	20.4	14.7	20.4	18.5	14.7
1200JR200-68	27.6	25.0	21.9	25.0	22.8	19.9	25.1	22.8	19.9	25.1	22.8	19.9	24.1	21.9	19.1	21.9	19.9	17.4
1200JR200-97	30.6	27.8	24.3	27.8	25.3	22.1	27.8	25.3	22.1	27.8	25.3	22.1	26.8	24.3	21.2	24.3	22.1	19.3
1200JR250-54	26.7	24.2	20.0	24.2	22.0	19.2	24.2	20.7	13.8	24.2	20.7	13.8	23.3	21.2	14.7	21.2	19.2	14.7
1200JR250-68	28.7	26.1	22.8	26.1	23.7	20.7	26.1	23.7	20.1	26.1	23.7	20.1	25.1	22.8	19.9	22.8	20.7	18.1
1200JR250-97	32.0	29.0	25.4	29.0	26.4	23.0	29.1	26.4	23.1	29.1	26.4	23.1	27.9	25.4	22.2	25.4	23.0	20.1
1200JR300-54	27.2	24.7	20.0	24.7	22.5	19.6	24.7	20.7	13.8	24.7	20.7	13.8	23.8	21.6	14.7	21.6	19.6	14.7
1200JR300-68	29.5	26.8	23.4	26.8	24.3	21.3	26.8	24.3	20.3	26.8	24.3	20.3	25.7	23.4	20.4	23.4	21.3	18.6
1200JR300-97	33.2	30.2	26.3	30.2	27.4	23.9	30.2	27.4	24.0	30.2	27.4	24.0	29.0	26.3	23.0	26.3	23.9	20.9
1400JR200-68	31.9	29.0	25.3	29.0	26.3	23.0	29.0	26.3	23.0	29.0	26.3	23.0	27.9	25.3	22.1	25.3	23.0	20.1
1400JR200-97	35.5	32.3	28.2	32.3	29.3	25.6	32.3	29.3	25.6	32.3	29.3	25.6	31.0	28.2	24.6	28.2	25.6	22.4
1400JR250-68	33.1	30.1	26.3	30.1	27.3	23.9	30.1	27.3	23.1	30.1	27.3	23.1	28.9	26.3	22.9	26.3	23.9	20.8
1400JR250-97	36.9	33.5	29.3	33.5	30.4	26.6	33.5	30.5	26.6	33.5	30.5	26.6	32.2	29.3	25.6	29.3	26.6	23.2
1400JR300-68	33.8	30.8	26.9	30.8	27.9	24.4	30.8	27.9	23.4	30.8	27.9	23.4	29.6	26.9	23.5	26.9	24.4	21.3
1400JR300-97	38.2	34.7	30.3	34.7	31.5	27.5	34.7	31.5	27.5	34.7	31.5	27.5	33.3	30.3	26.5	30.3	27.5	24.0



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JOISTRITE SPAN TABLES (ft)

SECTION ID	40 psf Dead Load plus 60 psf Live Load						15 psf Dead Load plus 125 psf Live Load						40 psf Dead Load plus 125 psf Live Load					
	L/360			L/480			L/360			L/480			L/360			L/480		
	Single Span			Single Span			Single Span			Single Span			Single Span			Single Span		
	Joist Spacing (in.) o.c.			Joist Spacing (in.) o.c.			Joist Spacing (in.) o.c.			Joist Spacing (in.) o.c.			Joist Spacing (in.) o.c.			Joist Spacing (in.) o.c.		
	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24
800JR200-43	12.7	11.0	8.4	12.7	11.0	8.4	10.7	9.0	6.0	10.7	9.0	6.0	9.8	7.6	5.1	9.8	7.6	5.1
800JR200-54	16.0	14.6	12.3	15.1	13.7	12.0	13.0	11.8	10.3	11.8	10.7	9.4	13.0	11.7	9.5	11.8	10.7	9.4
800JR200-68	17.2	15.6	13.6	16.2	14.7	12.8	13.9	12.7	11.1	12.7	11.5	10.0	13.9	12.7	10.8	12.7	11.5	10.0
800JR200-97	19.1	17.3	15.1	18.0	16.3	14.2	15.5	14.0	12.3	14.0	12.8	11.1	15.5	14.0	12.3	14.0	12.8	11.1
800JR250-43	13.1	11.4	8.4	13.1	11.4	8.4	11.1	9.0	6.0	11.1	9.0	6.0	10.2	7.6	5.1	10.2	7.6	5.1
800JR250-54	16.7	15.2	12.4	15.7	14.3	12.4	13.5	12.3	10.5	12.3	11.2	9.8	13.5	11.8	9.7	12.3	11.2	9.7
800JR250-68	18.0	16.3	14.0	16.9	15.4	13.4	14.6	13.2	11.6	13.2	12.0	10.5	14.6	13.2	10.9	13.2	12.0	10.5
800JR250-97	20.0	18.2	15.9	18.8	17.1	14.9	16.2	14.7	12.9	14.7	13.4	11.7	16.2	14.7	12.9	14.7	13.4	11.7
800JR300-43	13.4	11.6	8.4	13.4	11.6	8.4	11.3	9.0	6.0	11.3	9.0	6.0	10.2	7.6	5.1	10.2	7.6	5.1
800JR300-54	17.1	15.4	12.6	16.1	14.6	12.6	13.8	12.6	10.6	12.6	11.4	10.0	13.8	12.0	9.8	12.6	11.4	9.8
800JR300-68	18.5	16.8	14.2	17.4	15.8	13.8	15.0	13.6	11.9	13.6	12.4	10.8	15.0	13.6	11.1	13.6	12.4	10.8
800JR300-97	20.8	18.9	16.5	19.6	17.8	15.5	16.9	15.3	13.4	15.3	13.9	12.2	16.9	15.3	13.4	15.3	13.9	12.2
1000JR200-54	18.9	17.2	13.3	17.8	16.2	13.3	15.3	13.9	9.5	13.9	12.6	9.5	15.3	12.1	8.1	13.9	12.1	8.1
1000JR200-68	20.3	18.4	15.9	19.1	17.3	15.2	16.4	14.9	13.0	14.9	13.6	11.9	16.4	14.9	12.4	14.9	13.6	11.9
1000JR200-97	22.5	20.5	17.9	21.2	19.3	16.8	18.3	16.6	14.5	16.6	15.1	13.2	18.3	16.6	14.5	16.6	15.1	13.2
1000JR250-54	19.6	17.4	13.3	18.5	16.8	13.3	15.9	14.2	9.5	14.5	13.1	9.5	15.6	12.1	8.1	14.5	12.1	8.1
1000JR250-68	21.2	19.2	16.0	19.9	18.1	15.8	17.2	15.6	13.5	15.6	14.2	12.4	17.2	15.3	12.5	15.6	14.2	12.4
1000JR250-97	23.6	21.4	18.7	22.2	20.1	17.6	19.1	17.3	15.1	17.3	15.8	13.8	19.1	17.3	15.1	17.3	15.8	13.8
1000JR300-54	20.1	17.6	13.3	18.9	17.2	13.3	16.3	14.2	9.5	14.8	13.4	9.5	15.8	12.1	8.1	14.8	12.1	8.1
1000JR300-68	21.7	19.8	16.3	20.5	18.6	16.2	17.6	16.0	13.7	16.0	14.6	12.7	17.6	15.5	12.7	16.0	14.6	12.7
1000JR300-97	24.5	22.3	19.4	23.1	20.9	18.3	19.9	18.0	15.8	18.0	16.4	14.3	19.9	18.0	15.8	18.0	16.4	14.3
1200JR200-54	21.7	16.5	11.0	20.4	16.5	11.0	15.7	11.8	7.9	15.7	11.8	7.9	13.4	10.0	6.7	13.4	10.0	6.7
1200JR200-68	23.3	21.1	17.9	21.9	19.9	17.4	18.9	17.1	15.0	17.1	15.6	13.6	18.9	17.0	13.4	17.1	15.6	13.4
1200JR200-97	25.8	23.5	20.5	24.3	22.1	19.3	20.9	19.0	16.6	19.0	17.3	15.1	20.9	19.0	16.3	19.0	17.3	15.1
1200JR250-54	22.0	16.5	11.0	21.2	16.5	11.0	15.7	11.8	7.9	15.7	11.8	7.9	13.4	10.0	6.7	13.4	10.0	6.7
1200JR250-68	24.2	22.0	17.9	22.8	20.7	17.9	19.7	17.9	15.2	17.9	16.2	14.2	19.7	17.1	13.4	17.9	16.2	13.4
1200JR250-97	27.0	24.5	21.4	25.4	23.1	20.1	21.9	19.9	17.4	19.9	18.0	15.8	21.9	19.9	17.2	19.9	18.0	15.8
1200JR300-54	22.0	16.5	11.0	21.6	16.5	11.0	15.7	11.8	7.9	15.7	11.8	7.9	13.4	10.0	6.7	13.4	10.0	6.7
1200JR300-68	24.9	22.3	18.2	23.4	21.3	18.2	20.2	18.3	15.4	18.3	16.6	14.5	20.0	17.3	13.4	18.3	16.6	13.4
1200JR300-97	28.0	25.5	22.2	26.4	24.0	20.9	22.7	20.6	18.0	20.6	18.7	16.4	22.7	20.6	17.7	20.6	18.7	16.4
1400JR200-68	26.9	24.5	18.9	25.3	23.0	18.9	21.8	19.8	13.5	19.8	18.0	13.5	21.8	17.2	11.5	19.8	17.2	11.5
1400JR200-97	30.0	27.2	23.8	28.2	25.6	22.4	24.3	22.1	19.3	22.1	20.1	17.5	24.3	22.1	18.8	22.1	20.1	17.5
1400JR250-68	27.9	25.3	18.9	26.3	23.9	18.9	22.6	20.3	13.5	20.6	18.7	13.5	22.6	17.2	11.5	20.6	17.2	11.5
1400JR250-97	31.1	28.3	24.7	29.3	26.6	23.2	25.2	22.9	20.0	22.9	20.8	18.2	25.2	22.9	19.8	22.9	20.8	18.2
1400JR300-68	28.6	25.7	18.9	26.9	24.4	18.9	23.2	20.3	13.5	21.0	19.1	13.5	22.9	17.2	11.5	21.0	17.2	11.5
1400JR300-97	32.2	29.2	25.6	30.3	27.5	24.0	26.1	23.7	20.7	23.7	21.5	18.8	26.1	23.7	20.2	23.7	21.5	18.8



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