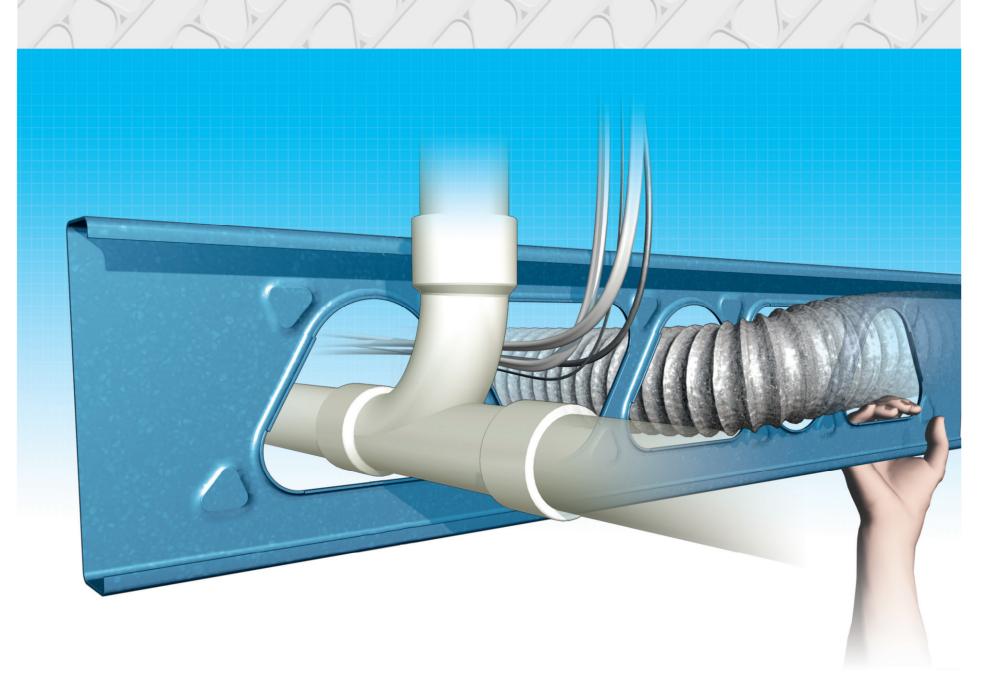
700 StRite®

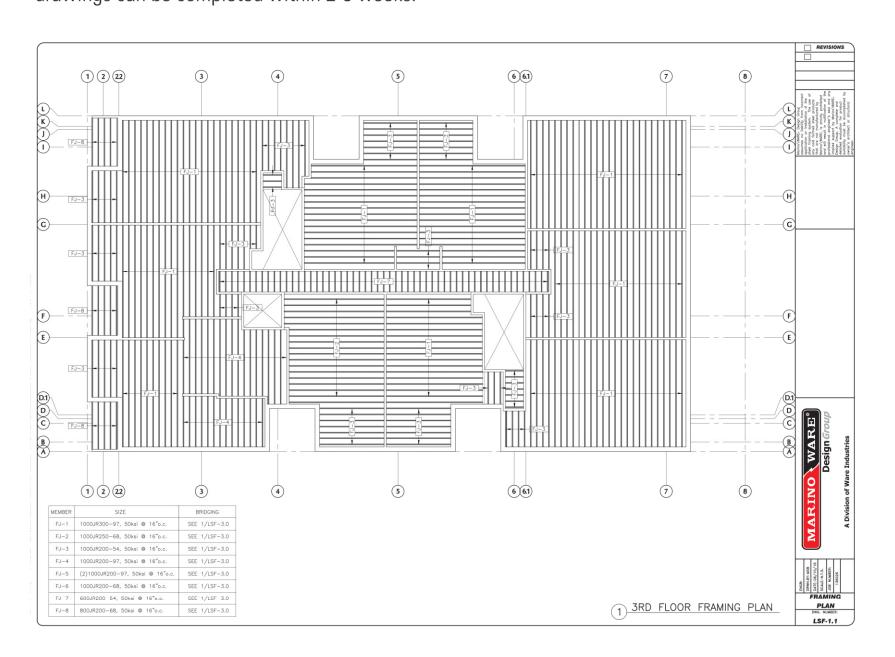
Steel Floor System Installation Guide





MARINO \ WARE ® **DesignGroup**

Marino\WARE® offers professional Engineered Shop Drawings. These drawings are created using AutoCAD software and are prepared for the submittal process. In addition, these drawings assist the installer in the construction process indicating product gauge, spacing and connections. Most shop drawings can be completed within 2-3 weeks.



MARINO \ WARE ®

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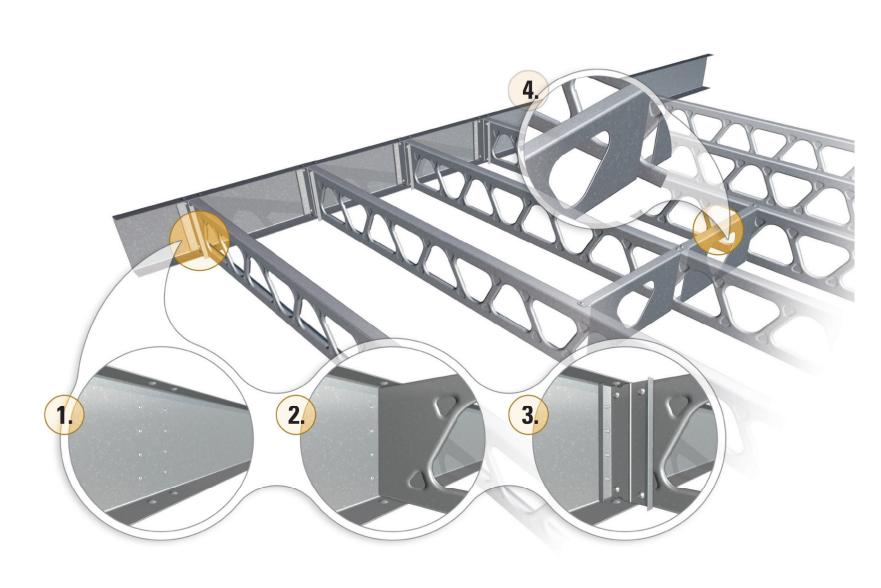
400 Metuchen Road South Plainfield, NJ 07080 908-757-9000 Phone 908-412-1442 Fax

Griffin, GA 30223 East Chicago, IN 46312 800-504-8199 Toll-Free 678-688-1312 Phone 9678-688-1379 Fax 219-378-7106 Fax

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51 John Street, Suite 1 McDonough, GA 30253 Babylon, NY 11702 631-691-2200 Phone

JoistRite® Components



1. Track

- Preset spacing for joists built in "dimples," located at conventional intervals along the track, surround the joist for easy initial placement
- Predrilled holes act as guides that assist in lining up components while eliminating the need to fasten screws through both joist and

2. Track and Joist

 Exclusive Snap-Lock technology — allows joists to lock into place with little effort and with less labor.

3. Web Stiffeners

 JoistRite[®] Web Stiffeners are the very first to come with predrilled holes and precut to fit standard joist sizes, allowing for easier installation.

4. Blocking

 Unlike traditional blocking, JoistRite Solid Blocking comes equipped with unique tabs that eliminate the need for additional accessory clips and fasteners – and additional clamping or fastening. The product is also precut to fit between the joists, resulting in more stability based on less labor.

18 43 0.0451 1.15 0.0428 1.09 Yellow

16 54 0.0566 1.44 0.0538 1.37 Green

14 68 0.0713 1.81 0.0677 1.72 Orange

Installation Suggestions

How to Secure the JoistRite® Track

The JoistRite Track is the same as rim joist in wood framing. For steel, it can be set directly on the concrete, or on top of a wood sill plate.

- The JoistRite Track can be set on a wood plate or directly on level concrete.
- When setting on level concrete, apply building paper before placing JoistRite Track.
- Set on the endwalls first.
- See building code or prescriptive method for anchoring to structure.
- Stand the JoistRite Track on the long flange with the web on the outside of the foundation
- Tack the JoistRite Track down with a power actuated fastener, screw or brace to keep it straight
- Splice JoistRite Tracks together if needed with a scrap piece of JoistRite or flat gusset plate. Splices are used whenever one section of the JoistRite Track is not long enough to extend the whole length of the structure.
- The JoistRite Track sets your spacing with its built in dimples spaced at your desired location, no need to mark the track.

How to Set JoistRite

- Turn JoistRite on an angle and slip the end of the joist inside the JoistRite Track.
- Twist the joist into its vertical position, lining it up with the dimples on the JoistRite
- Using a speed square, adjust the end of the joist so it is perpendicular to the rim track.

Fasten JoistRite in place using the patented JoistRite Web Stiffener. Use #10-16 screws thru each predrilled hole in the JoistRite

- Fasten the JoistRite Track to the JoistRite Web Stiffener through each predrilled hole in the JoistRite Track.
- Continue setting joists the length of the building one at a time, keeping the hard side of the joists in the same position.

How to Brace JoistRite

Bracing has never been easier.

Web Stiffener to joist.

- Slide JoistRite Solid Blocking into the desired location. See detail JR 1 on opposite side.
- Fasten JoistRite Solid Blocking to the JoistRite through each of the 4 predrilled tabs in the blocking with #10-16 screws.
- Temporary "strong-backs" can be used before sheathing is applied.

How to Apply Sub Flooring

Use the correct thickness sub flooring allowed by code based on the joist spacing.

- Apply glue to the floor joists before laying down the sub flooring.
- Screw the sub flooring down using a minimum No. 8 bugle-head screw, 6 inches on center for the edges, and 12 inches on center in the field.
- Use a screwdun with an adjustable depth setting nosepiece.

Construction Tips

On Your First Job. Confirm Material List **Covers the Required Amount Needed**

Always double check that material "cut" list has ample amount of material to frame the area. It is recommended that extra material is ordered to cover any deviations in the framing.

Use the Largest Depth Joist Possible

By using a deeper floor joist; plumbing, electrical and mechanical services are installed with ease and deflection is reduced. Select the appropriate floor joists based on the required floor loading, use the Marino\WARE JoistRite catalog or as specified by your architect or engineer. Smaller JoistRite depths are available to meet height restrictions.

Do Not Put Steel Joist in Direct Contact with Certain Materials

Do not put steel joists in contact with copper, pressure treated lumber, ACQ or Portland based masonry products. Use recommended grommets or protective barrier. Use of sill sealer or tar paper is recommended.

Be Familiar with Standard Stud Designators

These are easy to understand and are the standards for which steel framing products are designated. This is the universal system used by the professional industry. Visit www.ssma.com and view the technical library for information. Refer to the General Information section of this guide for an example.

Always Be Familiar with Plans

Always check the plans to ensure floor joists are installed according to design criteria. The

span direction and starting points are important so that the JoistRite knockouts (holes) are in line. As with any framing material, if the joists exceed their span limits, the resulting floor will be "bouncy" and potentially unsafe.

Expanded Floor Areas

This is accomplished many times by cantileving joists over a load bearing wall or a foundation wall. This also requires JoistRite blocking to be installed between every other joist at this bearing point. See detail JR 4 on opposite side. The blocking keeps the joists from rolling and stabilizes the floor. The perfect solution for this application is the use of the one piece JoistRite blocking system for easy installation. For additional framing requirements of cantilevered steel joists, please refer to the Steel Framing Alliance's (SFA) "National Training Curriculum".

Use the Required Sheathing

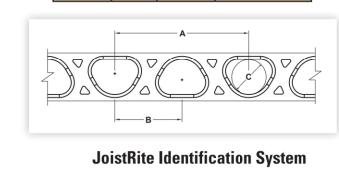
When floor joists are spaced wider than standard 16" on center, its imperative sheathing meets all local building codes.

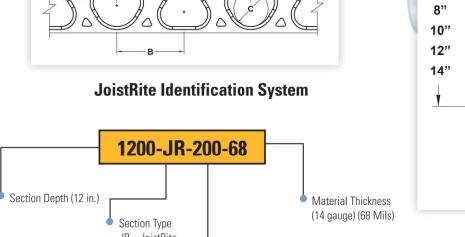
Use the Most Current Construction Details

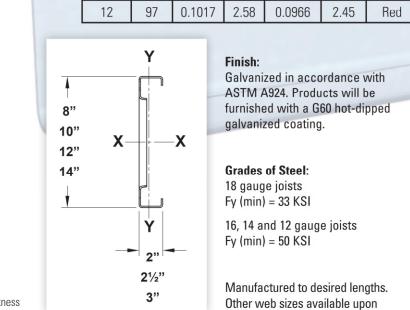
Use the framing details of this guide along with the JoistRite technical catalog. There are many standard steel construction details in the "Low-Rise Residential Construction Details" book. This consists of standard application for floors, load-bearing walls, roof framing as well as interior non-load bearing walls. Visit www.steelframingalliance.com (SFA) or www. MarinoWare.com and click on FrameRite to refer to these details.

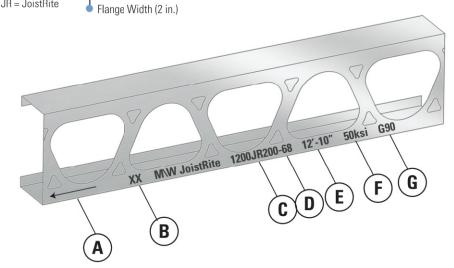
General Information

Section Depth in.	A Pitch in.	B ¹/₂ Pitch in.	C Max Diameter in.
8	28.0	14.00	5.5
10	28.0	14.00	7.2
12	35.0	17.50	9.2
14	35.0	17.50	9.2









A. Leading Edge (Indicated by the direction D. Member Thickness (mils) • 18, 16, 14, 12 gauge

 All joists must have their leading edges pointing in the same direction.

B. Member Callout Identification Joists and Girders will be identified by

C. Product Code • 1200JR200-68 (Identifies the joist type)

- E. Member Length
- 12'-10" F. Steel Strength
- 50ksi
- **G. Type of Galvanization Coating** • G60 or G90

Perfect for Trades

With JoistRite there really should never be a reason to cut the joist for the passing of trades. The large repetitive openings make it simple to locate HVAC, plumbing and electrical trades right through any bay of framing. Custom orders can be manufactured with specific start and stop locations of the holes if necessary. Never cut through a JoistRite column without engineering approval.





JoistRite® Accessories

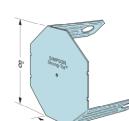
From Marino\WARE, creator of the revolutionary FrameRite family of proprietary framing solutions comes the industry's most comprehensive line of cold formed steel framing connectors. Designed to significantly reduce time, labor, materials and costs, FrameRite Connectors facilitate quicker and more cost-effective installation. Along with our partner Simpson Strong-Tie®, the industry leader in connectors, we offer over 300 varieties of connectors, covering every load requirement encountered on the jobsite. Save time, labor and money. FrameRite Connectors give you more control, more options, and more ways to build better with steel.









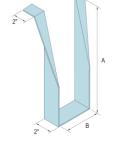


Ledger Connector System (ICFVL)

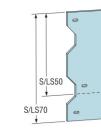


Steel Joist Hanger (S/HJCT)

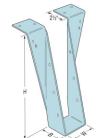
Web Stiffener (JS)



Bridle Hanger (BH)



Reinforcing and **Skewable Angles (S/LS)**



Hangers (S/LBV)







