



JoistRite™ floor and roof framing products feature a revolutionary design that allows for simple, "tradefriendly" installation of heating, electrical, plumbing, and other trade pass-throughs with superior strength and dimensional stability.





# **B**StudRite<sup>™</sup>

StudRite™ wall framing offers design flexibility and increased strength for interior and exterior wall framing while also offering "trade-friendly" technology.

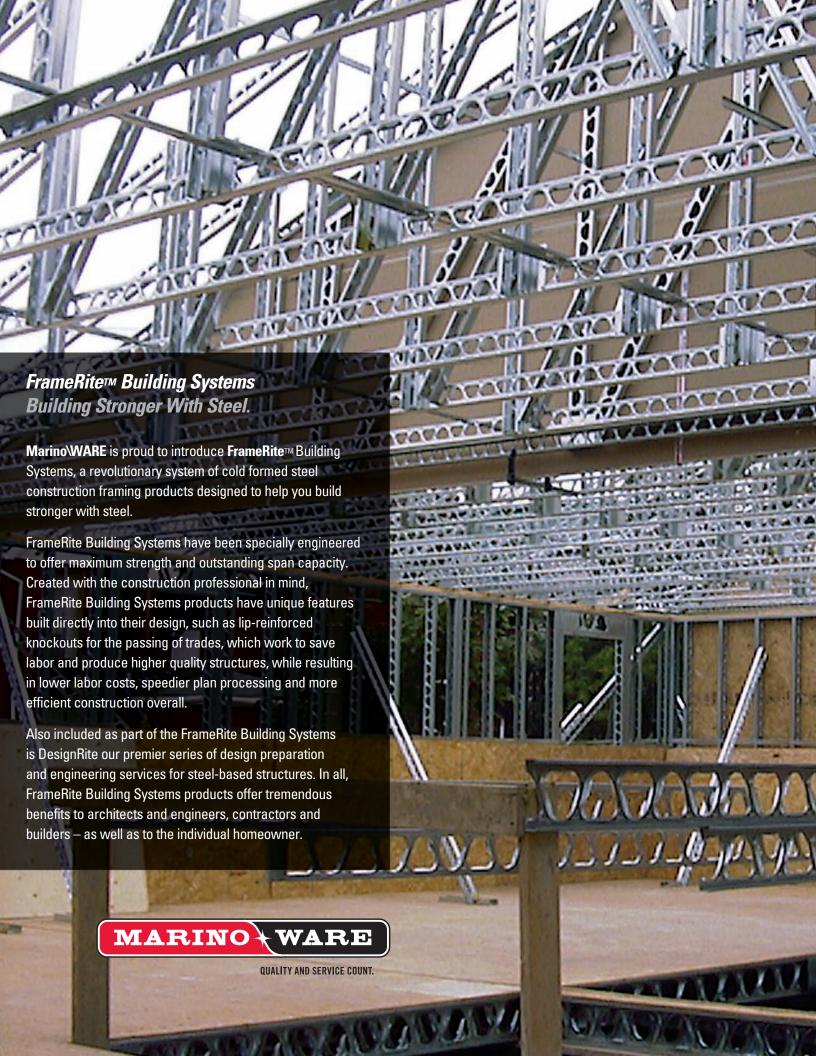


# **MTrussRite**<sup>™</sup>

TrussRite™ – Created from the AmKey System, TrussRite provides exceptional strength-to-weight ratio and is dimensionally stable, yet requires less bracing than conventional trusses.

MARINO\WARE is forging a strong future in the cold-formed steel construction framing industry with our new FrameRite Building Systems. As a leading developer of steel framing products, we have provided industry professionals with superior building materials and engineering capabilities for over 70 years. Today, our focus remains on quality, innovation and expert service as we continue to provide the trade with stronger, more efficient steel solutions.







# UNLOCK A WORLD OF DESIGN POSSIBILITIES

FrameRite Building Systems represent a new era in commercial and residential construction. These are products whose very design reduces labor and emphasizes flexibility, thereby freeing architects, engineers, contractors and builders from the constraints normally associated with traditional building materials.

The key to FrameRite Building Systems lies in its core components: JoistRite, StudRite and TrussRite. Each product can be integrated with all building materials to create floors, walls, roofs and other structures. When employed as a system, these products can be used to create an entire building. FrameRite Building System's 100% steel components are lightweight and extremely durable, and offer a sound alternative to wood, thereby reducing draw on the environment.

When combined with DesignRite, Marino\WARE's engineering and design service, FrameRite Building Systems form a complete building solution that allows for virtually unlimited construction possibilities.

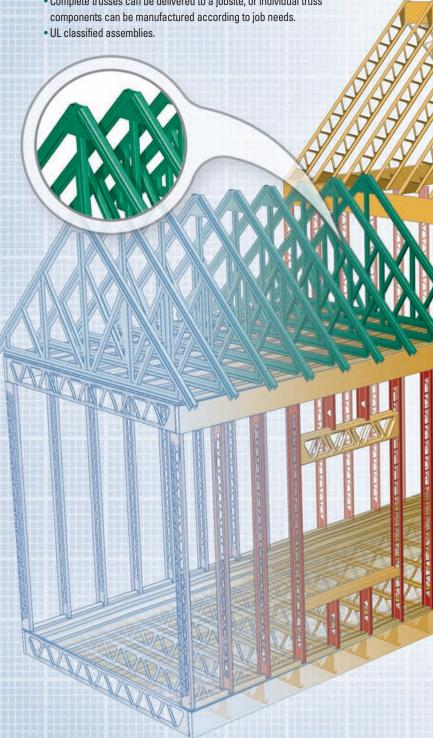
# # DesignRite

- · DesignRite services are available to prepare engineering for FrameRite Building Systems structures as well as for buildings created with conventional cold formed steel products.
- · Professionally engineered shop drawings allow for a precise layout of the entire structure - an invaluable field item for contractors and builders - and can help facilitate the design approval process.
- · Construction professionals can receive a complete list of FrameRite Building Systems materials for a given job - something the competition does not offer - eliminating repeat trips to the supply yard.

# **TrussRite**

- Created from the AmKey System.
- · Exceptional strength to weight ratio.
- · Superior dimensional stability.
- · Requires less bracing than other truss products.

 Complete trusses can be delivered to a jobsite, or individual truss components can be manufactured according to job needs.





# **JoistRite**<sup>TM</sup>

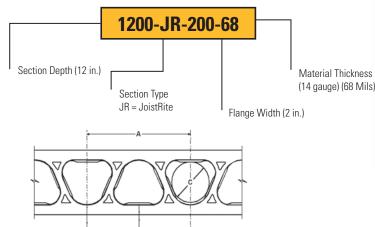
# SUPERIOR ENGINEERED JOIST SYSTEMS

Experience a new level of creative freedom and practical advancements that make the patented JoistRite™ system superior to all other floor systems.

The key to JoistRite's amazing design flexibility can be found in its unique engineering. Lip-reinforced triangular knockouts and embossments running along the length of its web allow for multiple advantages over traditional "C's" and engineered lumber, both in terms of labor-saving efficiencies and benefits to the overall structure itself. This same design serves to disperse sound, enhancing the acoustical quality of the structure, while reducing heat conductivity, significantly enhancing the product's thermal efficiency.

### Plus These Additional Advantages:

- · Compatible with metal-to-wood and metal-to-metal framing techniques
- · Rebar-like reinforcements provide improved bearing and span capabilities
- Unparalleled strength-to-weight ratio compared to any other product
- Superior dimensional stability
- Green Building Product Nearly 100% recyclable
- New York City MEA 139-04 M
- UL L580 1-Hour Fire Assembly
- WHI Project Number 3101528 1-Hour Fire Assembly
- WHI Project Number 3099463 1.5-Hour Fire Assembly
- JoistRite follows Steel Stud Manufacturers Association (SSMA) Codes:



Steel Thickness:									
Prod	ASTM C955								
Gauge	Mils	(in.)	(mm)	(in.)	(mm)	Color Code			
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			
12	97	0.1017	2.58	0.0966	2.45	Red			

#### Fire and Vermin Resistant

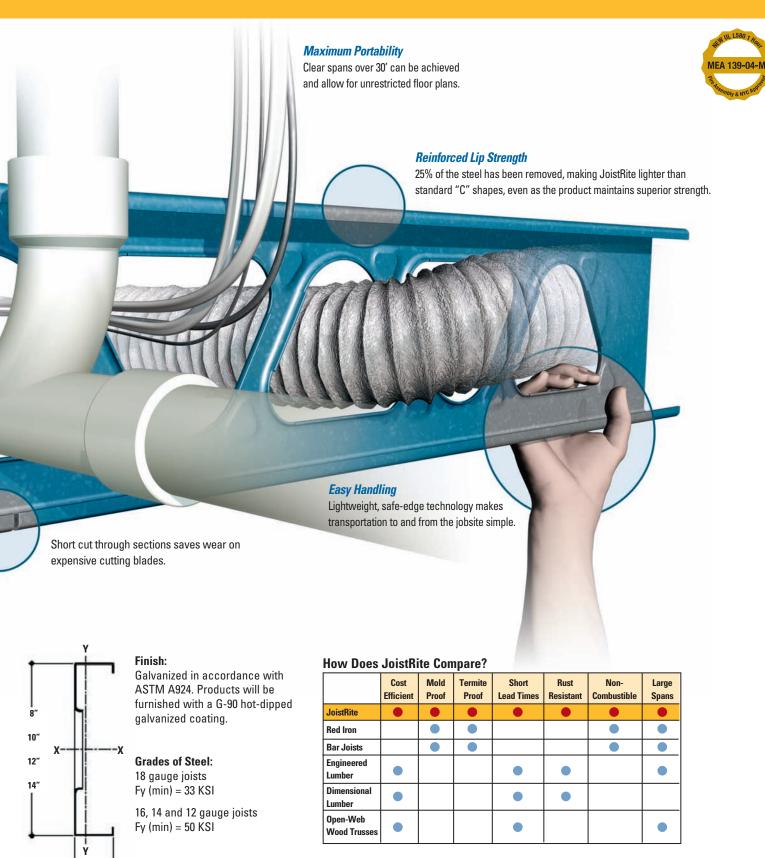
JoistRite will not support fungi (mold) and cannot be damaged by rodents, termites or other insects. It is fire-tested, non-combustible, easily panelized and corrosion-resistant and will not crack, shrink or rot.



#### Hole Sizes:

Section Depth in.	A Pitch in.	B 1/2 Pitch in.	C Max. Diameter in.
8	14.0	7.00	5.5
10	28.0	14.00	7.2
12	35.0	17.50	9.2
14	35.0	17.50	9.2

# FROM INSIGHT TO JOBSITE

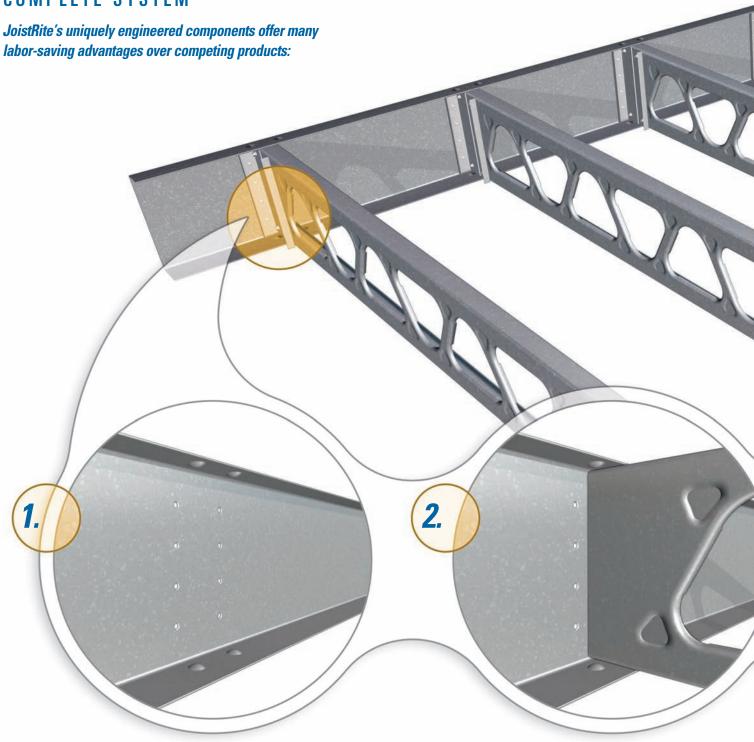


Manufactured to desired lengths. Other web sizes available upon



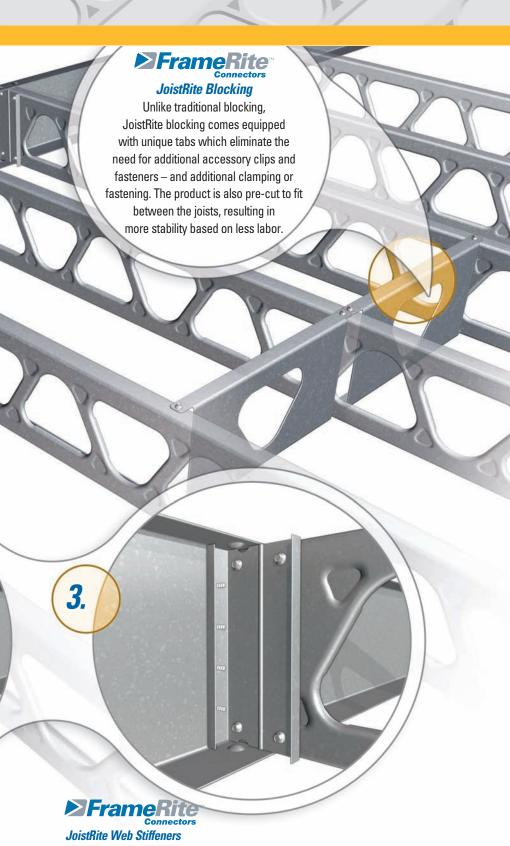
# **VoistRite**

# COMPLETE SYSTEM



#### JoistRite Track

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



# JoistRite<sup>TM</sup>

# FLOOR JOIST SPAN TABLE (ft) 15 psf Dead Load 40 psf Live Load

13 pai bedd Lodd 40 pai Live Lodd							
	DEFLECTION L/360 Single Span						
SECTION	Joist Spacing (in.) o.c.						
IDENTIFICATION	12	16	24				
800JR200-43	17.0	14.8	12.0				
800JR200-54	19.0	17.3	15.1				
800JR200-68	20.4	18.5	16.2				
800JR200-97	22.6	20.5	17.9				
1000JR200-54	22.4	20.3	17.8				
1000JR200-68	24.0	21.8	19.1				
1000JR200-97	26.7	24.2	21.2				
1200JR200-54	25.7	23.3	20.0				
1200JR200-68	27.6	25.0	21.9				
1400JR200-97	30.6	27.8	24.3				
1400JR200-68	31.9	29.0	25.3				
1400JR200-97	35.5	32.3	28.2				

# **JoistRite**™

**FLOOR JOIST SPAN TABLE (ft)** 

### 15 psf Dead Load plus 60 psf Live Load

TO POI DOGG EOGG	i piao oi	, hoi Fi	VO LOUU
SECTION IDENTIFICATION	Sii	VE LOAI ngle Spa pacing ( 16	n N
800JR200-43	14.6	12.6	10.3
800JR200-54	16.6	15.1	13.2
800JR200-68	17.8	16.2	14.1
800JR200-97	19.7	17.9	15.7
1000JR200-54	19.6	17.8	15.5
1000JR200-68	21.0	19.1	16.7
1000JR200-97	23.3	21.2	18.5
1200JR200-54	22.4	20.4	14.7
1200JR200-68	24.1	21.9	19.1
1200JR200-97	26.8	24.3	21.2
1400JR200-68	27.9	25.3	22.1
1400JR200-97	31.0	28.2	24.6

JoistRite Web Stiffeners are the very first to come with pre-drilled holes and pre-cut to fit standard joist sizes, allowing for easier installation.





# WALL SYSTEMS

StudRite™'s Wall Systems provide clean, straight lines for maximum structural stability for walls and load-bearing structures. In addition, StudRite's lip-reinforced knockouts allow plumbing, heating, and electrical conduits to pass through with ease. Lightweight and durable, the product can be used as bearing walls in low-rise construction and as non-bearing walls in high-rise construction.

StudRite web widths available from 35/8" through 8" StudRite flange widths available 15/8", 2", and 21/2"

### $\textbf{StudRite}^{\text{TM}}$

**COMBINED AXIAL AND LATERAL TABLE (kips)** 

EXTERIOR STRUCTURAL BEARING WALLS									
SECTION S IDENTIFICATION	Stud Spacing (in.) o.c.	8'	25 psf 9'	10'	8'	30 psf 9'	10'		
362JR162-43	16	2.96	2.29	1.69	2.64	1.94	1.32		
362JR162-43	24	2.18	1.45	0.81	1.75	0.98	0.33		
362JR162-54	16	5.82	4.73	3.74	5.50	4.37	3.37		
362JR162-54	24	5.03	3.87	2.86	4.58	3.39	2.39		
600JR162-43	16	4.90	4.71	4.24	4.90	4.52	3.91		
600JR162-43	24	4.76	4.10	3.43	4.42	3.70	2.96		
600JR162-54	16	8.49	8.00	7.49	8.49	8.00	7.49		
600JR162-54	24	8.49	8.00	7.49	8.49	8.00	6.91		

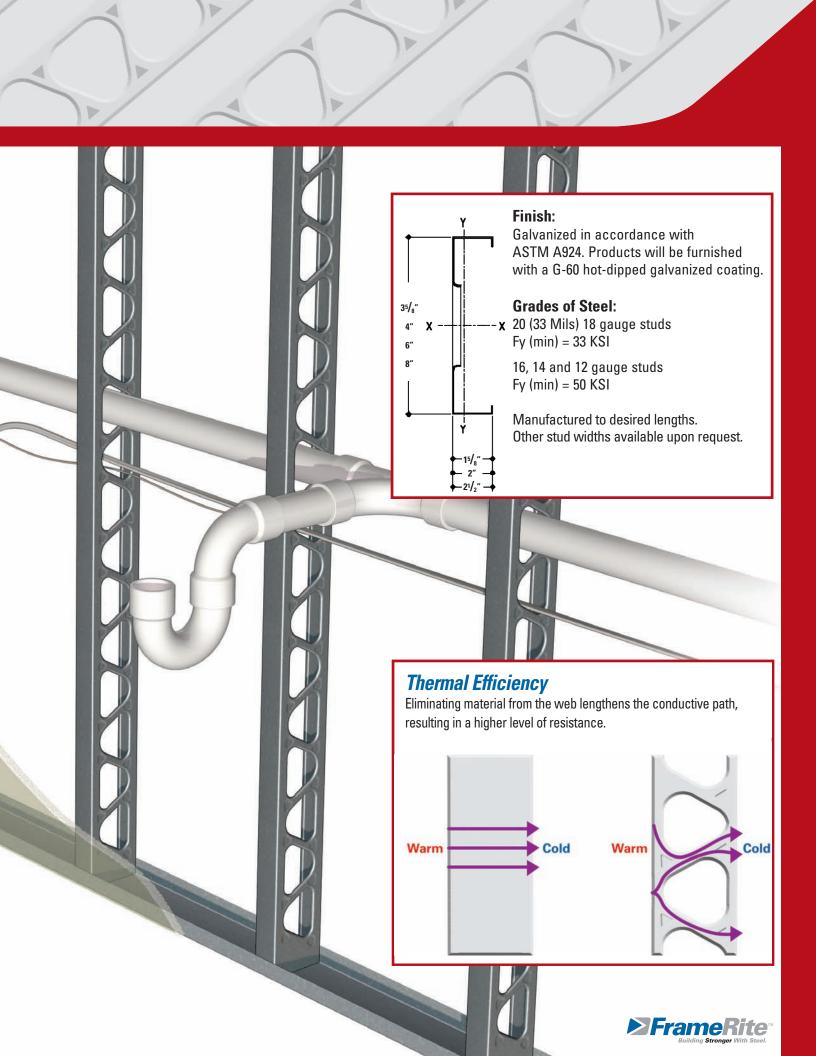
Bridging not to exceed 48" on center.

### StudRite<sup>™</sup>

LIMITING WALL HEIGHT TABLE (ft)

EXTERIOR STRUCTURAL NON BEARING WALLS										
SECTION S IDENTIFICATION	Stud Spacin (in.) o.c.	g L/240	25 psf L/360	L/600	L/240	30 psf L/360	L/600			
362JR162-43	16	11.1	9.7	8.2	10.4	9.1	7.7			
362JR162-43	24	9.7	8.5	7.1	9.1	8.0	6.7			
362JR162-54	16	11.9	10.4	8.8	11.2	9.8	8.2			
362JR162-54	24	10.4	9.1	7.6	9.8	8.5	7.2			
600JR162-43	16	16.3	14.3	12.0	14.7	13.4	11.3			
600JR162-43	24	11.7	11.7	10.5	9.8	9.8	9.8			
600JR162-54	16	17.5	15.3	12.9	16.5	14.4	12.1			
600JR162-54	24	15.3	13.4	11.3	14.4	12.6	10.6			

Bridging not to exceed 48" on center.





# ROOFING SYSTEMS

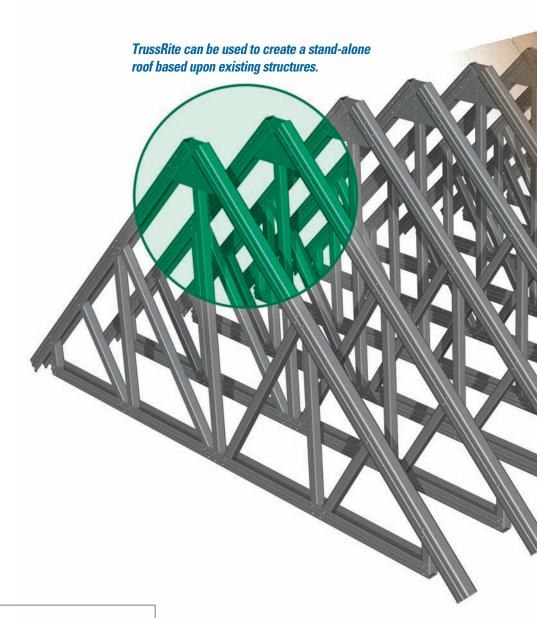
TrussRite, Marino\WARE's high-quality, versatile truss system, opens up multiple roofing possibilities for the construction professional. Complete trusses can be delivered to a job site, or individual truss components can be manufactured according to the particular needs of the structure. Created from AmKey System truss products, TrussRite provides an exceptional strength-to-weight ratio, yet requires less bracing than conventional trusses. In addition, TrussRite offers outstanding dimensional stability and features codeapproved, UL fire-rated assemblies.

## **VOLTEC ADVANTAGE**

To implement TrussRite designs, Marino\WARE utilizes Voltec modeling software. This cutting-edge three-dimensional engineering application can be used to custom tailor TrussRite products to meet exact building specifications. Now, trade professionals can be assured that TrussRite will accommodate the most complex roofing plans — even those involving substantial duct work.







### STANDARD TRUSS SHAPES AND CLEARSPANS

Common Truss Clearspans to ~ 70 ft + Flattop Truss Clearspans to ~ 65 ft + Mono Truss Clearspans to ~ 70 ft + Flat Truss Clearspans to ~ 50 ft +









# TYPICAL DETAILS



Hook & Hang Jack to girder



Hook & Hang Hip and angled jack



Uplift connection on CMU wall



Piggyback connection



Purlin and bracing to truss



Shear transfer end panel

Sloping Truss	Clearspans to ~ 50 ft +	Scissor Truss	Clearspans to ~ 60 ft +	Studio Truss	Clearspans to ~ 60 ft +	Cathedral Truss	Clearspans to ~ 60 ft +





175 Country Club Drive, Suite 200A, Stockbridge, GA 30281 Phone 770.507.2600 Fax 770.507.2605 Email engineering@marinoware.com

### ENGINEERING SERVICES

Marino\WARE is pleased to introduce DesignRite™, a comprehensive engineering and consulting resource developed to assist contractors, engineers, architects and builders in designing and building with FrameRite Building Systems or conventional cold formed steel products.

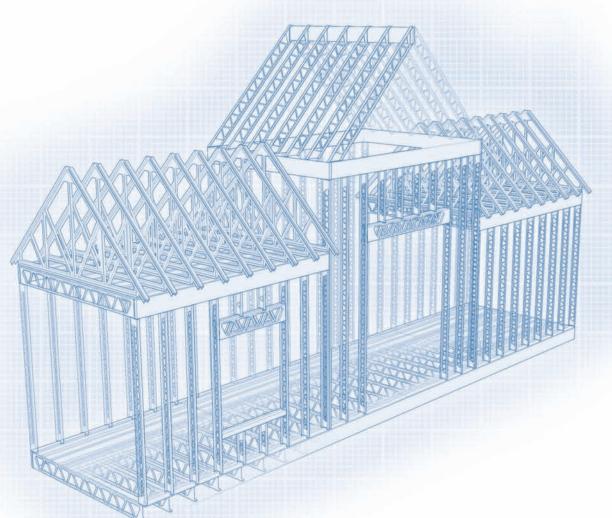
Utilizing Keymarks engineering software DesignRite will offer complete materials listings, so that trade professionals working with FrameRite Building Systems products can ensure the correct sizing and selection of items

and accessories. In addition, DesignRite will provide detailed shop drawings for any area of a conventional steel or FrameRite Building Systems structure – thus helping to facilitate the design approval process.

With DesignRite, trade professionals will get the best of Marino\WARE's engineering and construction knowledge in one accurate, streamlined and cost-effective system.

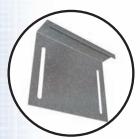


Marino\WARE offers a full range of accessories and can assist in choosing the right components to complete a FrameRite Building Systems project. We feature over 300 connectors and clips in convenient packaging. Please visit www.marinoware.com/connectors.





**BRC Bridge Clip** 



WSC Deflex



WSC Outrigger



WSC-1500 & WSC-950











QUALITY AND SERVICE COUNT.

### 800.627.4661 www.marinoware.com framerite@marinoware.com

#### NEW JERSEY FACILITY +

400 Metuchen Road South Plainfield, NJ 07080

(800) 627-4661 (908) 757-9000 (908) 412-1442 FAX

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(800) 627-4667 (631) 691-2200 (631) 691-1492 FAX

#### **←** ENGINEERING OFFICE

175 Country Club Drive, Suite 200A Stockbridge, GA 30281

(866) 545-1545 (770) 507-2600 (770) 507-2605 FAX