

BIG IDEAS BETTER SOLUTIONS



SPANtechnologies™
by Metwood

SQUAREcolumns™
by Metwood

FRAMINGsystems™
by Metwood

REINFORCER technologies™
by Metwood

Metwood products are extremely adaptable to all types of building systems, and fit right in with wood, log, ICF, SIP, metal, or just about anything else. Start with a complete Metwood system or try several components to get comfortable with the working aspects of Cold Formed Steel, and try others when the time is right. In any case, **5 Ways Better** is a good thing for everyone.

Metwood products truly are **5 Ways Better**, but how does that translate to, and effect the outcome of a project? It really means doing more, better, faster, safer, while giving customers a better value.

What this means to the builder/contractor is a stronger more competitive position in the marketplace, and of course more profit.



Metwood Patents and Design Certificates

Metwood has been innovating from day one, and our commitment to innovation continues. It's not about having the latest and greatest, it's about providing real solutions and profitability to the trade, and real value for end users. That's why you can look forward to more and better products from Metwood. There are plenty more BIG IDEAS in the works.

U.S. Patent No's. 5,519,977, 7,347,031, Joist Reinforcing Bracket.

U.S. Patent No. 5,625,997, Composite Beam.

U.S. Patent No. 5,832,691, Composite Beam, a continuation in part of the U.S. Patent No. 5,625,997.

U.S. Patent No. 5,521,053, Internally Reinforced Girder with Pierce-able Nonmetal Components.

U.S. Patent No's D472,210, D472,791, D472,792, and D472,793, Joist Reinforcing Brackets.



TUFF BEAM™

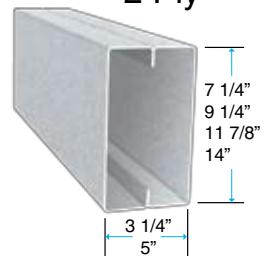
by METWOOD



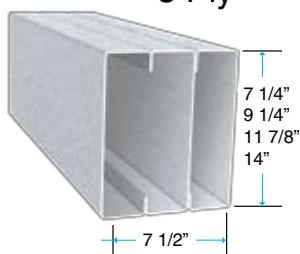
Two Hour Fire Rating
Test Report No: 3154219
metwood.com/firereport



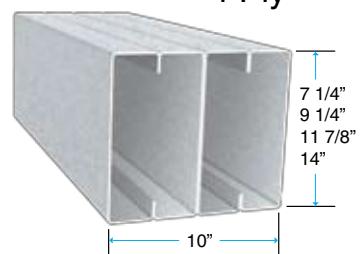
2 Ply



3 Ply



4 Ply



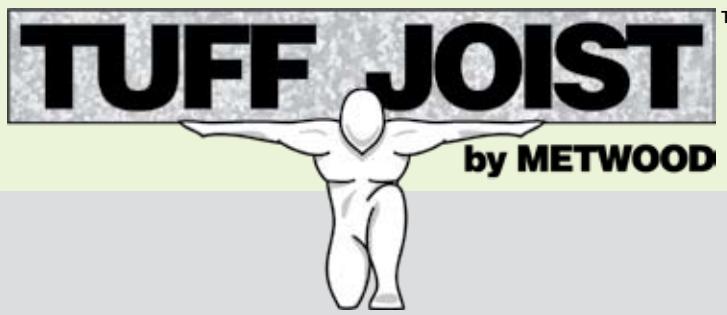
Other sizes available
on request. Hole
sizes vary from 4", 6",
8" and 10" depending
on beam depth.



The Original Internally Reinforced Structural Beam

The Metwood **TUFFBEAM™** is a compact structural beam of incredible strength, capable of spanning greater distances with fewer vertical supports while allowing the passage of utilities right through the structural member. **TUFFBEAM™** can be cut to length on the jobsite with typical power tools, easily positioned, and screwed in place with self-drilling screws. Generally no welding is required. **TUFFBEAM™** adapts simply to any project, allowing a variety of finishing products, wood nailers, and joist hangers to be easily attached for even greater flexibility.

- Headers (Brick & Stone Loading, etc)
- Floor & Roof Girders
- Ridge Beams
- Deck Girders (Treated, Composite, etc)
- Concrete Floor & Deck Supports
- Floor Truss / Joist Strongbacks
- ...and More.



Metwood **TUFFJOIST™** combines the strength and consistency of standard C-Stud joists, flexibility of pre-punched reinforced access holes, and Metwood's patented internal reinforcing technology.

Access holes greatly improve installation and architectural flexibility. Plumbing, HVAC, electrical, and other technology services can be installed within the floor system improving ease of installation while maintaining structural integrity.



floorSPAN™
by Metwood

floorSPAN™ is the ultimate concrete floor system. Based on Metwood's patented SPANtechnologies™, **floorSPAN™** can accommodate large rooms with fewer vertical supports.

Applications

Garages
Mezzanines
Living Spaces
Roof Systems



Two Hour Fire Rating
Test Report No: 3154219
metwood.com/firereport

1. Prepare Beam Pockets and Supports based on design
2. Install **TUFFBEAM's™**
3. Install Decking, Rebar, and In-floor Heating tube (as necessary)
4. Install Concrete Forms, Pour Concrete



Nothing compares to the solid feel and security of concrete. **deckSPAN™** accommodates any handrail, or ceiling finish, and is radiant ready.

Unlimited Finish Options

- Tile, Brick, Stamped, Stained

Unlimited Handrail Options

- Wrought Iron, Steel, Wood, Vinyl



METAL FRAMING

Metwood offers a complete line of metal framing products including: studs, track, bracing, and fasteners. We can also provide completed panels for projects including hospitals, schools, and hotels, as well as private residences.



TRUSSES AND RAFTERS

Metwood Inline Trusses and Rafters are extremely rigid and efficient, with a high strength-to-weight ratio, and can be installed with self drilling screws. Our Laser Fabrication Fixture ensures a high degree of accuracy during fabrication, ensuring, straight, tight, and 'true' framing. Our Trusses are typically in-line and fabricated with self drilling screws. Customer preferences such as job criteria, load requirements, and time frames are taken into consideration to determine the right design for each application.

FLOOR JOISTS - See TUFFJOIST



Metwood **SQUAREcolumns™** are a perfect match for **TUFFBEAM™**, but the fact is they'll support just about anything. **SQUAREcolumns™** have many advantages over round columns.

Metwood Square Columns are used in both *floorSPAN™* and *deckSPAN™* products. Metwood **SQUAREcolumns™** feature a higher strength to weight ratio, and offer a more convenient means of attaching finish materials at a price comparable to round columns. They can be cut to length on the job site and easily assemble using self drilling screws.



Available Loads (lbs.)

3" - 13 Ga.	9' - 18,637 lbs.
3" - 13 Ga.	10' - 16,162 lbs.
4" - 13 Ga.	10' - 29,776 lbs.
4" - 11 Ga.	12' - 31,503 lbs.

Run utilities right through the Joist! Engineered light gauge steel add-ons that allow greater flexibility in the routing and installation of utilities when using engineered I-Joists or conventional 2 x Joists.

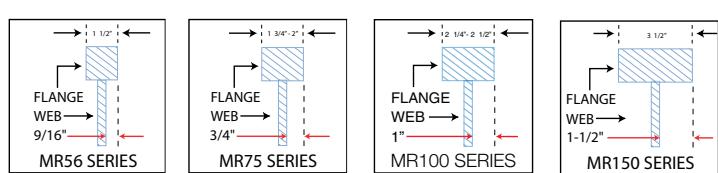
Joist Flange Reinforcer	
Joist Depth	Notch Size
9-1/2"	3-1/4"H x 5"W
11-7/8"	
14"	
16"	

I-Joist Web Reinforcer	
Joist Depth	Hole Size
9-1/2"	5-1/2"H x 12"W
11-7/8"	7-7/8"H x 12"W
14"	10"H x 16"W
16"	12"H x 16"W

Hole Reinforcer	
Size	Hole Size
2" x 8"	4"
2" x 10"	6"
2" x 12"	6"

Notch Reinforcer	
Size	Notch Size
2" x 10"	3-1/2"H x 5"W

Beam Reinforcer	
Size	Opening Size
	Opening sizes and locations are determined by load and span on a per project basis



Buy Reinforcers online at
www.metwoodstore.com

Metwood CFS Building Components: 5 Ways Better

Cold Formed Steel (CFS) has come a long way as a building product. Long used in commercial and industrial construction, builders are now discovering the benefits of CFS for residential and light commercial buildings.

- 1. Versatile** - All Metwood Building products can be cut and installed onsite using common power tools. No welding or cutting torches required; trimming can be done quickly with a reciprocating saw or circular saw with a metal cutting blade, with easy assembly using self-tapping screws. All Metwood CFS products can be used as a complete system or as individual components.
- 2. Strength** - Our Metal Building Products surpass equivalent wood components in every strength category, allowing us to achieve higher load capacities, longer spans and fewer vertical supports, with components that require less space.
- 3. Green** - Metwood is committed to the continual development of environmentally friendly products. Although there are very few applications for recycled wood products, currently 60% of the steel used in our building products come from recycled materials.
- 4. Fire Resistant** - If you're looking for kindling, typically you want wood or a wood based product. Steel is currently the most fire resistant building material available.
- 5. Corrosion and Pest Resistant** - Our Cold Formed Steel building components are treated for maximum resistance to corrosion. Pests can't get a foothold in CFS.



Let us help you with your next project...

Providence Engineering is a consulting engineering firm that specializes in providing our clients with the engineering services that best meet their needs. Providence is one of the few firms in the area that offers structural and civil engineering services for a variety of situations and circumstances. Our client base includes individual residential homeowners, contractors, developers, architects, insurance companies, mortgage companies, and realtors. Since our acquisition by Metwood, Inc. we have successfully provided structural engineering to many of the Metwood customers that needed engineered solutions to uncommon situations. We provide engineering services in the following areas:

CIVIL ENGINEERING

SITE PLANS
SUBDIVISIONS
OFFICE PARKS
UTILITY DESIGN
DRAINAGE & EROSION CONTROL
CONCEPTUAL LAYOUTS
MASTER PLANNING
INVESTIGATIONS & CERTIFICATIONS

STRUCTURAL ENGINEERING

FRAMING DESIGN
FOUNDATION DESIGN
RETAINING WALL DESIGN
STRUCTURAL INVESTIGATIONS



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