

WE STRESS QUALITY



Strength ▶ Confidence ▶ Marketability
Less Inventory, Less Waste ▶ Value



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Strength ▶ ▶ ▶ ▶ ▶

With MSR lumber, you can take advantage of higher strength values that provide greater design flexibility. This allows you to optimize the lumber used in your truss designs creating cost advantages and also provides clear span flexibility.

“We choose MSR because it has better quality and overall value than visual grades. It’s also great for meeting the snow load design in Michigan.”

— *Dean DeHoog, ProBuild Midwest, Marne, MI*



Confidence ▶ ▶ ▶ ▶ ▶

Every piece is tested and has certified strength and stiffness design properties. You can be confident that the properties you see are what you are getting.

“Our lumber purchasing decisions are based on quality, strength and availability, so we choose MSR. With MSR lumber, we know the quality has been certified, and our lumber supplier is the best in the industry.”

— *John Nicholson, Deltec Homes, Inc, Asheville, NC*



Marketability ▶ ▶ ▶ ▶ ▶

Marketing your products as using machine stress rated lumber further demonstrates your commitment to quality.

“The types of products we manufacture require tight guidelines on design, so we use MSR lumber. Using MSR means that we can produce the quality products that our customers want.”

— *Ben Hershey, Alliance TruTrus, Tempe, AZ*



Less Inventory, Less Waste ▶ ▶ ▶ ▶ ▶

Every single piece of lumber can be used to the maximum. This allows you to turn your inventory faster and reduce your waste costs. Cash in hand today is important.

"We're able to stock less inventory, make less culls, and have a final product with a better appearance. The quality that MSR lumber provides is definitely a selling feature."

— *Colin Penner,
Penn-Truss Mfg. Inc.,
Saltcoats, SK*



◀ ▶ ▶ ▶ ▶ *Value* ▶ ▶ ▶ ▶ ▶

When you consider all of the benefits of using MSR lumber, the overall value is clear. MSR lumber will look better, perform better, optimize designs better and therefore optimize your cash best.

"The best value for our dollar is MSR lumber. It has the consistency and quality control that we demand, and it fulfills our engineering requirements, too. MSR does the job every time."

— *Gary Weaver,
Timber Tech Texas, Inc.,
Cibolo, TX*



How To Specify Machine Graded Lumber ▶▶▶▶▶

The correct specification for Machine Stress Rated lumber is simple. With MSR, strength and stiffness, rather than species, are the important factors which control the specification. To order, specify Machine Rated, grade stamped lumber and list the Stress value (Fb) and corresponding Modulus of Elasticity value (E), nominal sizes, lengths required and whether Green or K.D. (Kiln Dried). Species should only be specified when horizontal shear (Fv), compression perpendicular to grain (Fc) $\frac{1}{2}$, or fastener design are the controlling factors.

In addition to MSR lumber, Machine Evaluated Lumber (MEL) is another form of machine graded lumber. An MEL grade stamp shows the allowable tension stress and, optionally, the allowable compression stress (if compression quality control testing is performed). MEL grades are specified by their "M" grade.

MSR Grade Stamp:

MACHINE RATED
W[®] 12 S-DRY D
W P F I R
2400 Fb 1925 Ft 2.0 E

MEL Grade Stamp:

AUDITED BY KD-19 SYP
TP[®] 000 M-23
2400fb 1.8E 1800ft

We Stress Quality ▶▶▶▶▶

MSR lumber improves the performance and reliability of your engineered components and structures. MSR is the ONLY dimension lumber product subjected to mechanical property screening of every piece and daily QC strength and stiffness testing of production samples. MSR is produced under ALS and/or CLS approved grading agency QC and certification procedures.



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