



Reliable lumber from a source you know and trust.

An industry leader since 1956, Tolko is a proven resource for the residential and light commercial construction market, and a trusted partner for structural building component manufacturers. With an annual production capacity of two billion board feet, we know the industry. We know who our customers are and what you need.

The information you need to do your job.

On May 25, 2012, the U.S. Department of Agriculture confirmed that the results of a pilot study for the National Lumber Grades Authority showed no indication of a downward change in modulus of elasticity or modulus of rupture for No.2 2x4 SPF. The complete USDA report is available from your Tolko representative.

With the recent re-evaluation of visually-graded Southern Pine lumber by the Southern Pine Inspection Bureau, truss manufacturers and home builders are looking for alternatives. We're here to help, with straightforward advice on the benefits of machine stress-rated lumber (MSR) as a replacement in component manufacturing, and the engineering data to help simplify lumber selection and streamline inventory.

The lumber you need to control your costs.

Tolko MSR lumber will allow you to manufacture high quality components while controlling costs. Every piece has been mechanically stress-rated to ensure structural performance characteristics. Our automated grading technology assures product consistency with tight controls on wane and warp. Builders and component manufacturers can order Tolko MSR lumber with confidence.

Quality assured in-grade testing.

We've been producing MSR for more than 20 years. With in-grade testing by the National Lumber Grades Authority and quality control testing by our own automated grading systems, you're assured a consistent grade from every Tolko mill. Tolko produces proprietary premium visual structural grades to match the marketplace requirements with our log supply. When a product says TOLKO, you can be confident the quality is consistent.

Dimension Lumber

Species: Spruce/Pine/Fir (SPF) and Douglas Fir/Larch (DFL)
Sizes: 2x3, 2x4, 2x6, 2x8, 2x10, 2x12
Lengths: 6' to 20'
Metric sizes: Various sizes available, contact Tolko for details

	Mill Stamp	Heat Treat Number	Primary Product
High Level	PLIB 101	CA00647	Dimension, MSR
Williams Lake	COFI 55	CA00686	Dimension, MSR
Quesnel	COFI 29	CA00687	Dimension, MSR

- MSR lumber assures product reliability
- Internationally recognized, continuous, time-tested statistical process control system
- Continuously monitored by third-party agencies, American Lumber Standard (ALS) and Canadian Lumber Standard (CLS)
- Equipment calibrated to international standards

Lengths	Spruce Pine Fir (SPF) 8' to 20'	Douglas Fir/Larch (DFL) 8' to 20'
2x3, 2x4, 2x6 x 1650f	•	
2x4, 2x6 x 1800f		•
2x8 x 1950f	•	•
2x3, 2x4, 2x6 x 2100f	•	
2x3, 2x4, 2x6, x 2400f	•	

Manage the change and manage your inventory.

Used to working with Southern Pine? You can trust the quality and rely on the performance of Tolko's SPF MSR lumber for minimal waste, making truss manufacturing easier. More complete use of each piece of lumber means less waste. And that saves money.

COMPARISON

For your convenience, here's a complete rundown of lumber design values Southern Pine customers were using before the design values re-evaluation, the new Southern Pine design values, and the design values of Tolko's SPF and DFL products.

While component manufacturers often focus on bending stress or modulus of elasticity, tension and compression stress also are critical design values. The table below is sorted on tension.

2x4 June 1, 2012 Design Properties for SP (New and Old) and 2x4 TOLKO MSR and Visual-Graded Lumber Products (Sorted on F_t)

Grade	Species	Bending Stress F_b	Tension F_t	Compression Stress $F_{c//}$	Modulus of Elasticity MOE	Specific Gravity
No.3	SP (New)	600	375	625	1200000	0.55
Stud	SP (New)	600	375	625	1200000	0.55
No.3 TOLKO	SPF	750	375	750	1200000	0.42
Stud TOLKO	SPF	745	385	760	1200000	0.42
Stud TOLKO	DFL (N)	715	440	945	1400000	0.49
No.3 TOLKO	DFL (N)	715	450	950	1400000	0.49
No.3	SP (Old)	850	475	975	1400000	0.55
Stud	SP (Old)	850	475	975	1400000	0.55
No.2ND	SP (New)	975	575	1050	1200000	0.55
No.2	SP (New)	1050	650	1100	1400000	0.55
No.2 TOLKO	SPF	1315	675	1325	1400000	0.42
No.2D	SP (New)	1150	750	1250	1500000	0.55
No.2ND	SP (Old)	1350	775	1600	1400000	0.55
No.2	SP (Old)	1500	825	1650	1600000	0.55
No.2D	SP (Old)	1700	875	1850	1700000	0.55
No.1ND	SP (No Change)	1700	900	1700	1600000	0.55
1650f - 1.5E TOLKO MSR	SPF	1650	1020	1700	1500000	0.42
No.1	SP (No Change)	1850	1050	1850	1700000	0.55
No.1D	SP (No Change)	2000	1100	2000	1800000	0.57
1800f - 1.6E TOLKO MSR	DFL (N)	1800	1175	1750	1600000	0.49
SS TOLKO	DFL (N)	2025	1235	2185	1900000	0.49
NDSS	SP (No Change)	2650	1350	1950	1700000	0.55
2100f - 1.8E TOLKO MSR	SPF	2100	1575	1875	1800000	0.46
SS	SP (No Change)	2850	1600	2100	1800000	0.57
DSS	SP (No Change)	3050	1650	2250	1900000	0.57
2400f - 2.0E TOLKO MSR	SPF	2400	1925	1975	2000000	0.50

(1) SP Lumber Grades as defined by Supplement No. 9 to the Southern Pine Inspection Bureau 2002 Grading Rules Effective June 1, 2012 at www.spib.org. (2) Canadian SPF and DFL Lumber Grades as defined by Standard Grading Rules for Canadian Lumber at <http://nlga.org/catalog>. (3) These design values are taken from the 2005 and 2012 National Design Specification for Wood Construction (NDS) Supplement: Design Values for Wood Construction as appropriate at <http://www.awc.org/publications/update/2012NDS-Addendum-March2012.pdf>. (4) The design values are calculated using base values and all grading agency/NDS defined adjustment factors, as well as rounding rule to the nearest 5 psi.

Quick Reference Substitution Table

Tolko offers three SPF grades to help you manage the change, while managing your inventory. The substitution table below will help you make an easy transition from Southern Pine to SPF.

Product Used BEFORE SP Design Values Re-evaluation	TOLKO Replacement Product
No.2 Dense	2100f - 1.8E SPF
No.2 and No.2 Non-dense	1650f - 1.5E SPF
No.3/Stud	No.2 SPF

(1) Changes in sizes or types of connections may be required due to changes in Specific Gravity.
(2) A double-check of the truss design engineering control conditions should also be made.

A word about the Mountain Pine Beetle (MPB):

The MPB has always been a natural element in western Canadian and U.S. forests. Our specially designed automated and visual grading systems address MPB challenges, delivering quality visual and MSR lumber grades with the performance the market demands.



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