



T-TEC LSL for Unfinished Basements



Floor joists are a key structural element within the floor system. Floor joists, when used over unfinished basements, must provide “equivalent” fire performance to 2-inch by 10-inch nominal dimensional lumber. T-TEC LSL Floor Joists provide “equivalent” fire performance without the need for fire resistive paints, coatings or chemical treatments, or mechanically-attached fire protection materials.

BENEFITS OF T-TEC LSL JOISTS

- ✓ T-TEC LSL Joists meet Exception 4 of R302.13 of IRC 2015 and 2018 (R501.3 of IRC 2012)
- ✓ Perfectly suited for use with Advanced Framing techniques
- ✓ T-TEC LSL Joists can be designed without any physical property reductions
- ✓ T-TEC LSL Joists are easily picked by yard staff because of familiar 2' increments, thereby limiting yard errors and waste from long lengths
- ✓ Simple span joists can result in smaller beam and post sections
- ✓ No need for fire resistive paints, coatings or chemical treatments, or mechanically-attached fire protection materials
- ✓ Offers savings over other code approved solutions
- ✓ Holes permitted for electrical wires
- ✓ Strategic reloads located across the United States
- ✓ T-TEC LSL Joists listed within APA PR-L284 and ICC-ESR-2725
- ✓ Protection from the elements with a blue coloured bundle seal



Floor Span Chart: 40/10 psf; Glued & Nailed Subfloor; L/480 Live Load Deflection¹

40 psf Live Load; 10 psf Dead Load
 Live Load Deflection = L/480; Total Load Deflection = L/240
 23/32" APA Rated STURD I-Floor Subfloor - GLUED & NAILED

Joist Series	Single Span ²				Continuous Span ²			
	OC Spacing				OC Spacing			
	12"	16"	19.2"	24" ³	12"	16"	19.2"	24" ³
1.35E LSL, 1.5"x 9-1/2"	16'-10"	15'-6"	14'-8"	13'-10"	18'-10"	17'-4"	16'-5"	15'-5"
1.35E LSL, 1.5"x 11-7/8"	20'-10"	19'-2"	18'-2"	17'-0"	23'-4"	21'-5"	20'-4"	16'-4"
1.35E LSL, 1.5"x 14"	24'-5"	22'-5"	21'-2"	19'-10"	27'-5"	24'-8"	20'-6"	16'-4"

Notes:

- 1 Refer to T-TEC LSL Joists Technical Guide for more information.
- 2 For lengths exceeding 24' contact Tolko Marketing and Sales to confirm availability.
- 3 7/8" or 1-1/8" recommended for 24" OC spacing.

T-TEC LSL JOISTS



Specifications	
Thickness ¹	1-1/2"
Depths ¹	9-1/2", 11-7/8", 14", 16"
Lengths ¹	12', 14', 16', 18', 20', 22', 24'
E-Rating	1.35E
Zinc Borate Protection	Optional

THE ENGINEERED DIFFERENCE

When we make T-TEC LSL, we process the trees into strands and piece them back together to optimize the structural properties and provide a superior product to meet the needs of builders. T-TEC LSL boards have been engineered and dried to a specific moisture content, so they do not inherit the natural twisting and warping of the original tree. T-TEC LSL products are engineered to be straighter, truer, and more consistent than sawn lumber.

WARRANTY

Tolko T-TEC LSL products are backed by a limited 50-year warranty² against delamination and to meet Tolko's published performance criteria for the lifetime of the structure.



E-RATING

The E-Rating of engineered wood products identifies the modulus of elasticity (MOE). A greater E-Rating means the product is more resistant to changing with force. The E-Rating is your guarantee that T-TEC LSL has the strength to perform without fail.

HOW T-TEC LSL IS MADE

Tolko's T-TEC LSL is made up of 7 inch long strands of fibre bonded together in a parallel formation with a waterproof adhesive free of urea-formaldehyde for superior dimensional stability.

In our state-of-the-art Athabasca mill, moisture levels are closely monitored and controlled to produce a product with a moisture content similar to that of a residential home. These tight controls result in a product that is resistant to warping, twisting, shrinking and bowing after installation.

CONTINUOUS BENEFITS FROM A CONTINUOUS PRESS

To maintain consistency throughout each board, our T-TEC LSL is pressed in our 234 foot long continuous press. The accuracy of this press allows us to continuously produce boards with a consistent thickness without sanding which means the surface strands are not damaged and we maintain the integrity of the adhesive. This results in a more durable, water resistant board that stands up to the elements on the job-site.

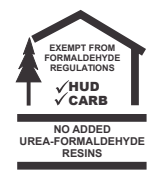
CONSISTENT QUALITY

Each run of T-TEC LSL is inspected for strength properties, surface quality and dimensional precision to ensure every order is consistent and lives up to the Tolko name.

SUSTAINABLE FOREST MANAGEMENT

We manufacture our products from renewable, recyclable and biodegradable resources, and our practices are guided by our Forest Management Principles and Environmental Policy. We also adhere to globally-accepted Sustainable Forest Management (SFM) and Chain of Custody (CoC) standards.

1. For promotional purposes, lengths and widths are nominal sizes; actual product dimensions comply with U.S. Weights and Measures requirements.
2. See unique product warranties for specific details on warranty inclusions and limitations, and always follow the storage and installation instructions. Warranty details available at www.tolko.com.



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