

Trus Joist® 1 3/4" 1.55E TimberStrand® LSL Stair Stringer Tables

Maximum Stringer Run – 40 psf Live Load and 12 psf Dead Load

1 3/4" 1.55E LSL Stair Stringer Depth	36" Tread Width	36" Tread Width	42" Tread Width	44" Tread Width	48" Tread Width
	2 Stringers With 2x4 Reinforcement	3 Stringers With 2x4 Reinforcement	3 Stringers With 2x4 Reinforcement	3 Stringers With 2x4 Reinforcement	3 Stringers With 2x4 Reinforcement
9.5"	7'-6"	8'-4"	7'-6"	7'-6"	7'-6"
11 7/8"	10'-10"	12'-6"	12'-6"	11'-8"	11'-8"
14"	14'-2"	14'-2"	14'-2"	14'-2"	14'-2"

Maximum Stringer Run – 100 psf Live Load and 12 psf Dead Load

1 3/4" 1.55E LSL Stair Stringer Depth	36" Tread Width	36" Tread Width	42" Tread Width	44" Tread Width	48" Tread Width
	2 Stringers With 2x4 Reinforcement	3 Stringers With 2x4 Reinforcement	3 Stringers With 2x4 Reinforcement	3 Stringers With 2x4 Reinforcement	3 Stringers With 2x4 Reinforcement
9.5"	5'-0"	5'-10"	5'-10"	5'-10"	5'-0"
11 7/8"	8'-4"	9'-2"	9'-2"	8'-4"	8'-4"
14"	10'-0"	11'-8"	10'-10"	10'-10"	10'-10"

General Guidelines for Calculating Step Rise and Run

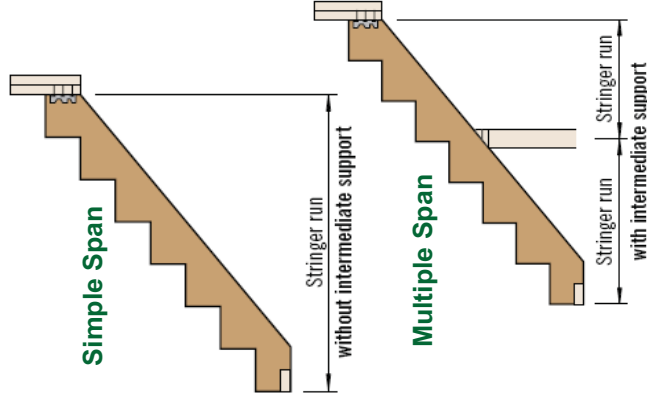
- The rise times the run should equal approximately 75".
- Two times the rise plus one run should equal approximately 25".
- Rise plus run should be 17" to 18".

General Notes

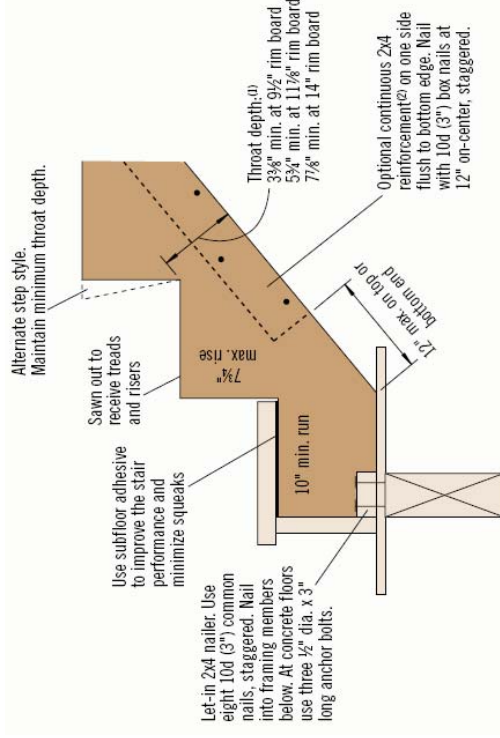
- Maximum stringer runs shown are valid for U.S. codes (working stress) or Canadian codes (Limit State Design). Loads shown are unfactored.
- Deflection criteria of L/360 live load and L/240 total load.
- Stairway assembly is unstable until treads are installed.
- Use subfloor adhesive to improve the stair performance and minimize squeaks.
- Tables based on 7 3/4" maximum rise and 10" minimum run. Local codes may be more restrictive.
- Maximum rise between floors or landings permitted by code is 12'-0".
- Keep materials dry. Add vapor barrier at bottom of stair stringer if it is in contact with concrete.
- The attachment detail shown is a suggestion only; alternate details are possible. Responsibility remains with the project designer or engineer of record.
- For assistance with loading conditions and stair configurations not shown, contact your iLevel representative.

See iLevel® Trus Joist® TimberStrand® LSL Stair Stringer Design Guide
TJ-8003 for More Information and Installation Details

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Low End Attachment – 40 psf Live Load 12 psf Dead Load



- (1) Minimum throat depths may be reduced by an additional 1/4" for 11 7/8" and 14" material depths if 2x4 reinforcement is used and provided total rises and runs are limited to table values for unreinforced stringers.
- (2) Minimum No. 2 hem-fir, spruce-pine-fir or better grade.