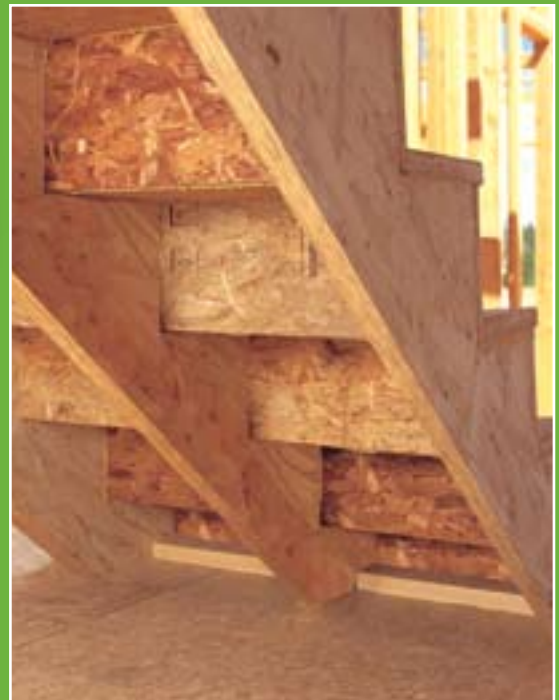




TRUS JOIST® 1¼" TIMBERSTRAND® LSL RIM BOARD STAIR STRINGERS

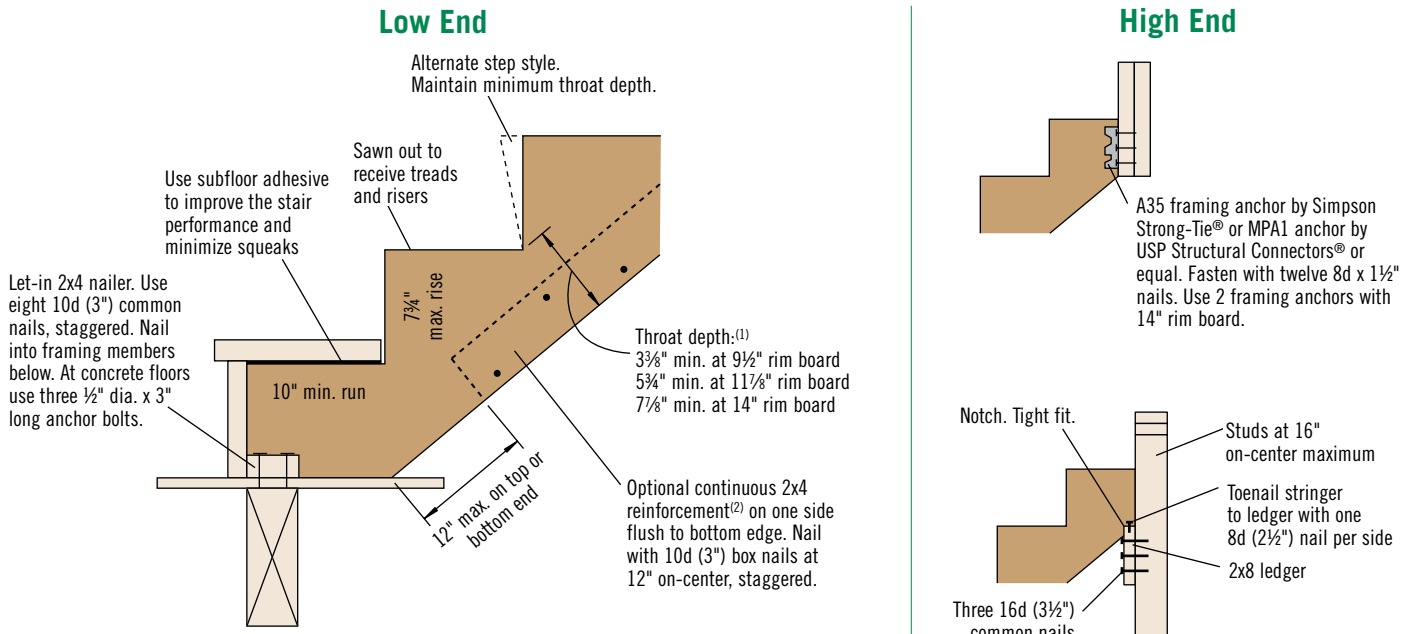
The Ideal Solution for Strong, Stable Stairs

- Straight and Consistent
- Eliminates Adjustments for Shrinkage
- Minimizes Material Waste
- Resists Bowing, Twisting, and Shrinking
- Significantly Reduces Callbacks
- Better Nail Holding Capability
- Includes Product Warranty



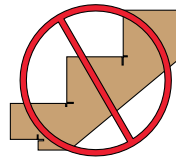
#TJ-8003 DESIGN GUIDE

Suggested Residential Stringer Attachment Details
40 psf Live Load and 12 psf Dead Load



- (1) Minimum throat depths may be reduced by an additional 1/4" for 1 1/8" and 1 1/4" 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.

TimberStrand® LSL
stair stringers are intended for
dry-use applications.



DO NOT over cut stair stringer

1 1/4" 1.3E TimberStrand® LSL

	Allowable Design Stresses (100% Load Duration)	Specified Strengths ⁽¹⁾ (Standard Term)
Shear modulus of elasticity	G = 81,250 psi	81,250 psi
Modulus of elasticity	E = 1.3 x 10 ⁶ psi	1.3 x 10 ⁶ psi
Flexural stress	F _b = 1,700 psi ⁽²⁾	3,140 psi ⁽¹⁾
Compression perpendicular to grain	F _{c⊥} = 680 psi ⁽³⁾	1,240 psi ⁽²⁾
Compression parallel to grain	F _c = 1,400 psi	2,235 psi
Horizontal shear perpendicular	F _v = 400 psi	745 psi

CAUTION
Stair stringer tables and attachment details are intended for use with TimberStrand® LSL only. Consult designer for attachment details for live loads greater than 40 psf.

- (1) Specified strengths are based on Limit States Design per CSA 086-01.
- (2) For 12" depth. For others, multiply by $[\frac{12}{d}]^{0.092}$
- (3) F_{c⊥} shall not be increased for duration of load.

Glossary

Term	Definition
(A) Material Depth	Depth of product before steps are cut.
(B) Step Rise	Unit rise of individual step.
(C) Step Run	Unit run of individual run (nosing ignored).
(D) Stringer Run	Horizontal span between stairway supports.
(E) Throat Depth	Net depth of stringer once steps are cut. Measured from step perpendicular to bottom edge of stringer.

