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Inspections Division
Approved with Conditions
Date: 09/06/17

126 Sherwood

Ties:

Section 2a=

LSC Adjustable Stringer Connector

View Full Gallery

Top of Form
Bottom of Form

The LSC adjustable stair-stringer connector offers a versatile, concealed connection between the stair stringer and the carrying header or rim joist while replacing costly framing. Field slopeable to all common stair stringer pitches, the LSC connector is suitable for either solid or notched stringers.

Key Features

- Replaces additional framing and toe-nailing.
- Suitable for most installations on 2x10 or 2x12 header/rim board.
- May be installed flush with the top of the carrying member or lower on the face.
- Interchangeable for left or right applications.
- LSCZ features a ZMAX® coating for additional corrosion protection. Suitable for interior and some exterior applications. LSCSS is made from stainless steel for higher exposure environment. See Corrosion Information.

Material

- 18 gauge

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Finish

- LSCZ — ZMAX® coating; LSCSS — stainless steel

Installation

- Use all specified fasteners; see table.
- Before fastening, position the stair stringer with the LSC on the carrying member to verify where the bend should be located.
- Tabs on the LSC must be positioned to the inside of the stairs.
- The fastener that is installed into the bottom edge of the stringer must go into the second-to-last hole.
- When installed on 1 5/16" LVL or a 1 1/4" LSL stringer, additional items that will not affect the structural performance of the LSC, but should be considered, include the following:
  — LSC stringer flange will protrude 1/4" from face of stringer. As such, it is recommended the LSC be installed with the tabs positioned to the outside of the stringer.
  — 1 1/2" fasteners installed into 1 1/4" LSL stringer will protrude from the opposite side.

LUC/LU/U/HU/HUC Standard Joist Hangers

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LUCZ concealed-flange hanger available for 2x6, 2x8, 2x10 and 2x12 lumber. Ideal for end of ledger/header or post conditions, the LUCZ also provides cleaner lines for exposed conditions such as overhead decks.

See hanger tables. See Hanger Options for hanger modifications, which may result in reduced loads.

LU — Value engineered for strength and economy. Precision-formed — engineered for installation ease and design value.

U — The standard U hanger provides flexibility of joist to header installation. Versatile fastener selection with tested allowable loads.

HU/HUC — Most models have triangle and round holes. To achieve maximum loads, fill both round and triangle holes with common nails. These heavy-duty connectors are designed for schools and other structures requiring additional strength, longevity and safety factors.

Finish

Galvanized. Some products available in stainless steel or ZMAX® coating. See Corrosion Information.

Installation

Use all specified fasteners. See General Notes.

HU/HUC — Can be installed filling round holes only, or filling round and triangle holes for maximum values.

Joists sloped up to 1/4:12 achieve table loads.

For installations to masonry or concrete, see HU/HUC/HSUR/L.

HU/HUC hangers can be welded to a steel member. Allowable loads are the lesser of the values in the hanger tables or the weld capacity — refer to technical bulletin HU/HUC Welded onto Steel Members (T-HUHUC-W).

When nailing into carrying member's end grain, the allowable load is adjusted by a factor of 0.67

2b=

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LSC Adjustable Stringer Connector

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Bottom of Form

The LSC adjustable stair-stringer connector offers a versatile, concealed connection between the stair stringer and the carrying header or rim joist while replacing costly framing. Field slopeable to all common stair stringer pitches, the LSC connector is suitable for either solid or notched stringers.

Key Features

- Replaces additional framing and toe-nailing.
- Suitable for most installations on 2x10 or 2x12 header/rim board.
- May be installed flush with the top of the carrying member or lower on the face.
- Interchangeable for left or right applications.
- LSCZ features a ZMAX® coating for additional corrosion protection. Suitable for interior and some exterior applications. LSCSS is made from stainless steel for higher exposure environment. See Corrosion Information.

Material

- 18 gauge

Finish

- LSCZ — ZMAX® coating; LSCSS — stainless steel

Installation

- Use all specified fasteners; see table.
- Before fastening, position the stair stringer with the LSC on the carrying member to verify where the bend should be located.
- Tabs on the LSC must be positioned to the inside of the stairs.

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- The fastener that is installed into the bottom edge of the stringer must go into the second-to last hole.
- When installed on 1 5/16" LVL or a 1 1/4" LSL stringer, additional items that will not affect the structural performance of the LSC, but should be considered, include the following:
  — LSC stringer flange will protrude 1/4" from face of stringer. As such, it is recommended the LSC be installed with the tabs positioned to the outside of the stringer.
  — 1 1/2" fasteners installed into 1 1/4" LSL stringer will protrude from the opposite side.

2c=

DTT Deck Tension Tie

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Bottom of Form

DTT tension ties are safe, cost-effective connectors designed to meet or exceed code requirements for deck construction. These versatile DTT connectors are also load-rated as a holdown for light-duty shearwalls and braced-wall panel applications.

For new construction or to make an existing current deck code-compliant, the DTT1Z can be used as a tension-tie to satisfy the 2015 IRC provision for a 750 lb. lateral load connection to the house at four locations per deck. This code detail permits the lateral connection from the deck

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joists to be made to top plates, studs or headers within the supporting structure, which eliminates the need to access to the floor joists inside the home. The DTT1Z is available in a kit (DTT1Z-KT) that includes (4) DTT1Z connectors, (4) Strong-Drive® SDWH Timber-Hex HDG screws and (26) SD #9 x 1 1/2" screws.

The DTT1Z fastens to the narrow or wide face of a single 2x with Simpson Strong-Tie® Strong-Drive SD Connector screws or nails and accepts a 3/8" machine bolt, anchor bolt or lag screw (washer required) or can be installed with the Strong-Drive SDWH Timber-Hex HDG screw with an integral washer.

The DTT2 can be used to satisfy the IRC provision for a 1,500 lb. lateral load connection at two locations per deck. Additionally, the DTT2 has been tested and evaluated in deck guardrail post applications to resist the code-specified lateral forces at the top of railing assemblies. The DTT2 is also available with longer 2 1/2" Strong-Drive SDS Heavy-Duty Connector screws (model DTT2Z-SDS2.5) to achieve higher loads when needed. The DTT2 fastens easily to the wide face of a single or double 2x using Simpson Strong-Tie Strong-Drive SDS Heavy-Duty Connector screws (included) and accepts a 1/2"-diameter machine bolt or anchor bolt.

For guard post installations using Strong-Drive SDWS Timber screws, see Guard Post Installations Using Strong-Drive SDWS TIMBER Screws (T-F-SDWSGRD).

Material

- 14 gauge

Finish

- DTT1Z/DTT2Z — ZMAX® coating; DTT2SS — stainless steel. See Corrosion Information.

Installation

- Use all specified fasteners; see General Notes
- A standard cut washer (included for DTT2) must be installed between the nut and the seat
- Simpson Strong-Tie Strong-Drive SDS Heavy-Duty Connector screws install best with a low-speed high-torque drill with a 3/8" hex-head driver (Model DB6H1.75)
- Strong-Drive SD Connector screws install with a 1/4" hex-head driver (Model DBHEX)
- Strong-Drive SDWH Timber-Hex HDG screws install with a 3/8" hex-head driver (Model DB6H1.75)

2D=

DTT Deck Tension Tie

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Bottom of Form

DTT tension ties are safe, cost-effective connectors designed to meet or exceed code requirements for deck construction. These versatile DTT connectors are also load-rated as a holdown for light-duty shearwalls and braced-wall panel applications.

For new construction or to make an existing current deck code-compliant, the DTT1Z can be used as a tension-tie to satisfy the 2015 IRC provision for a 750 lb. lateral load connection to the house at four locations per deck. This code detail permits the lateral connection from the deck joists to be made to top plates, studs or headers within the supporting structure, which eliminates the need to access to the floor joists inside the home. The DTT1Z is available in a kit (DTT1Z-KT) that includes (4) DTT1Z connectors, (4) Strong-Drive® SDWH Timber-Hex HDG screws and (26) SD #9 x 1 1/2" screws.

The DTT1Z fastens to the narrow or wide face of a single 2x with Simpson Strong-Tie® Strong-Drive SD Connector screws or nails and accepts a 3/8" machine bolt, anchor bolt or lag screw (washer required) or can be installed with the Strong-Drive SDWH Timber-Hex HDG screw with an integral washer.

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The DTT2 can be used to satisfy the IRC provision for a 1,500 lb. lateral load connection at tw locations per deck. Additionally, the DTT2 has been tested and evaluated in deck guardrail post applications to resist the code-specified lateral forces at the top of railing assemblies. The DTT2 is also available with longer 2 1/2" Strong-Drive SDS Heavy-Duty Connector screws (model DTT2Z-SDS2.5) to achieve higher loads when needed. The DTT2 fastens easily to the wide face of a single or double 2x using Simpson Strong-Tie Strong-Drive SDS Heavy-Duty Connector screws (included) and accepts a 1/2"-diameter machine bolt or anchor bolt.

For guard post installations using Strong-Drive SDWS Timber screws, see Guard Post Installations Using Strong-Drive SDWS TIMBER Screws (T-F-SDWSGRD).

Material

- 14 gauge

Finish

- DTT1Z/DTT2Z — ZMAX® coating; DTT2SS — stainless steel. See Corrosion Information.

Installation

- Use all specified fasteners; see General Notes
- A standard cut washer (included for DTT2) must be installed between the nut and the seat
- Simpson Strong-Tie Strong-Drive SDS Heavy-Duty Connector screws install best with a low-speed high-torque drill with a 3/8" hex-head driver (Model DB6H1.75)
- Strong-Drive SD Connector screws install with a 1/4" hex-head driver (Model DBHEX)
- Strong-Drive SDWH Timber-Hex HDG screws install with a 3/8" hex-head driver (Model DB6H1.75)

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ABA/ABU/ABW Adjustable and Standoff Post Bases

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The AB series of retrofit adjustable post bases provide a 1" standoff for the post, are slotted for adjustability and can be installed with nails, Strong-Drive® SD Connector screws or bolts (ABU). Depending on the application needs, these adjustable standoff post bases are designed for versatility, cost-effectiveness and maximum uplift performance.

Key Features

- The slot in the base enables flexible positioning around the anchor bolt, making precise post placement easier
- The 1" standoff helps prevent rot at the end of the post and meets code requirements for structural posts installed in basements or exposed to weather or water splash

Material

- Varies (see model table)
- All galvanized. Most offered in ZMAX® coating. See Corrosion Information.

Installation

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- Use all specified fasteners; see General Notes.
- See our Anchoring and Fastening Systems for Concrete and Masonry catalog for retrofit anchor options or reference technical bulletin Anchoring Solutions for Simpson Strong-Tie® Connectors in Wind and Low-Seismic Regions (T-ANCHORSPEC).
- Post bases do not provide adequate resistance to prevent members from rotating about the base and therefore are not recommended for non-top-supported installations (such as fences or unbraced carports).
- Place the base, load transfer plate and nut on the anchor bolt. Loosely tighten the nut.
- Some products may be installed with the Strong-Drive® SD Connector screw; see model table.

ABW
Place the standoff base and then the post in the ABW and fasten on three vertical sides, using nails or Strong-Drive SD Connector screws
– Make any necessary adjustments to post placement and tighten the nut securely on the anchor bolt
– Bend up the fourth side of the ABW and fasten using the correct fasteners

ABU
Place the standoff base and then the post in the ABU
– Fasten using nails or Strong-Drive SD Connector screws or bolts (ABU88Z, ABU1010Z, ABU1212Z – SDS optional)

ABA
Place the post in the ABA
– Fasten using nails or Strong-Drive SD Connector screws

1) Rim joist and first and last joist, applies to deck as well as landing: 2x10 PT
   All other joists: 2x8 PT
   Stringers: 2x12 PT
   Posts: 4x4 PT

2) Spacing between support posts: 81” to 85”
3) 10” sonotube
4) Height of landing: 53”