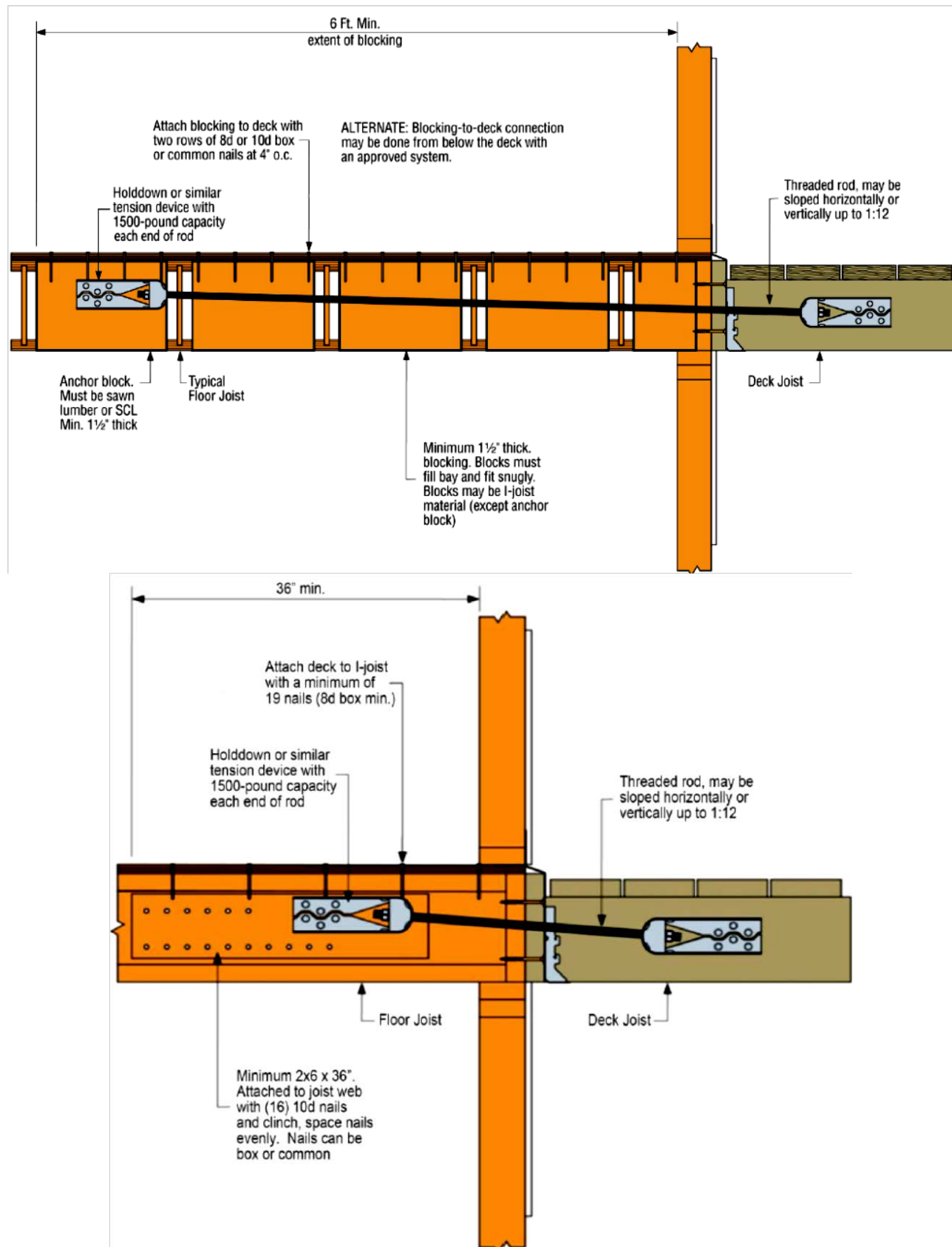


BUILDING A DECK ADDENDUM

Deck Lateral Load Connection to Prefabricated Wood I-Joist Floor System

From the Wood I-Joist Manufacturers Association

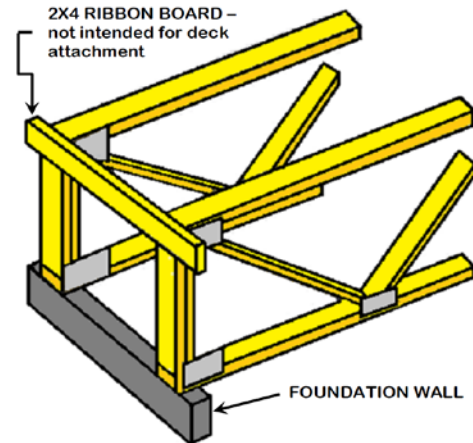


LEDGER CONNECTION TO METAL PLATE CONNECTED WOOD TRUSS FLOOR SYSTEM

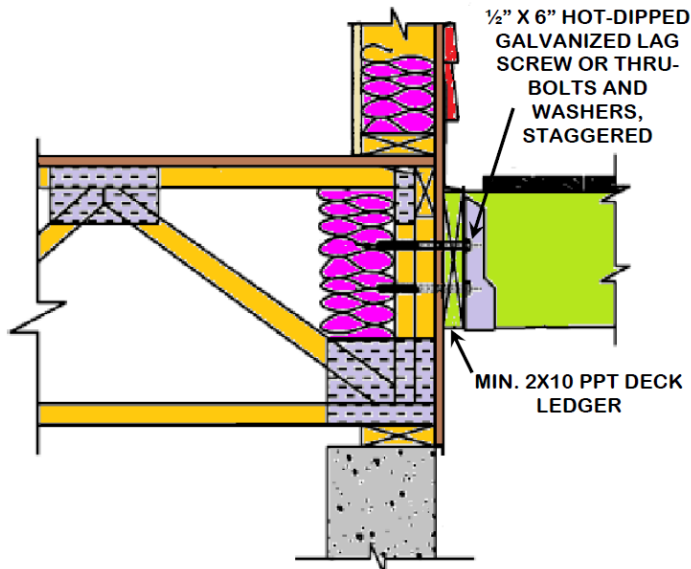
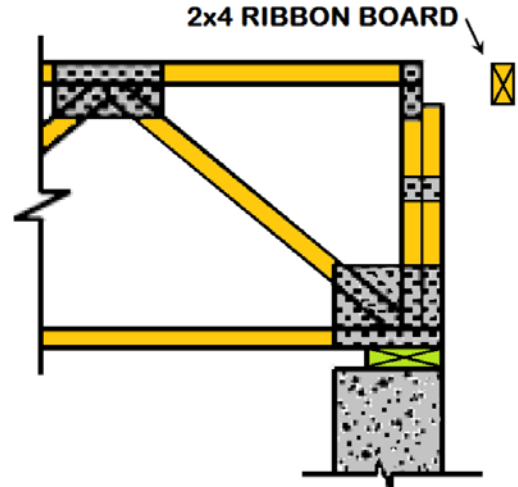
FROM THE WOOD TRUSS COUNCIL OF AMERICA

THE FOLLOWING DO NOT ADDRESS THE LATERAL LOAD CONNECTION REQUIRED

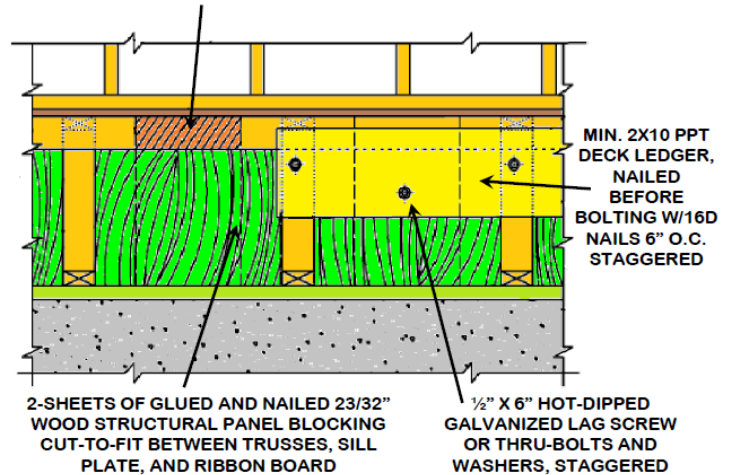
ATTACHING DECK LEDGER TO MPCWT FLOOR SYSTEM



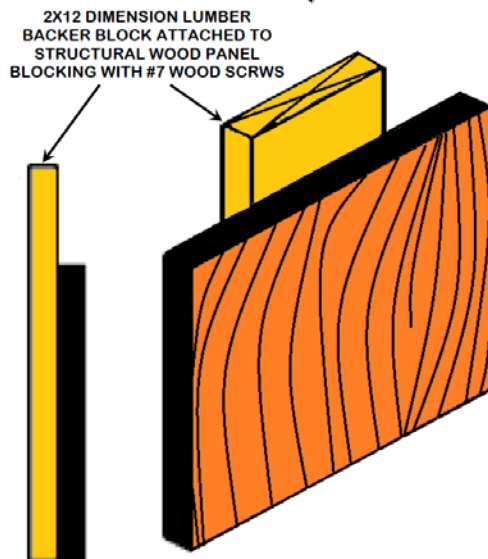
METAL PLATE CONNECTED WOOD FLOOR TRUSSES WITH A 2X4 LUMBER "RIBBON" AT THE ENDS OF THE TRUSSES



2X12 DIMENSION LUMBER BACKER BLOCK ATTACHED TO STRUCTURAL WOOD PANEL BLOCKING WITH 2-ROWS OF COMMON 30D NAILS SPACED AT 4" O.C.

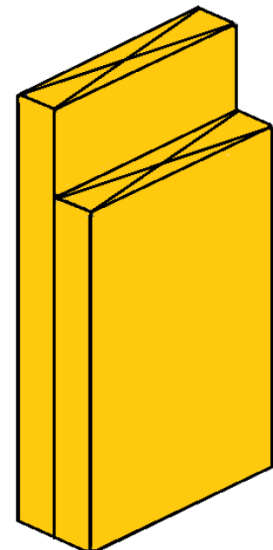


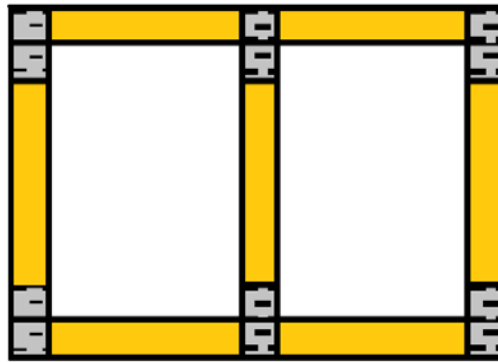
WOOD STRUCTURAL PANEL SHEATHING NOT SHOWN FOR CLARITY



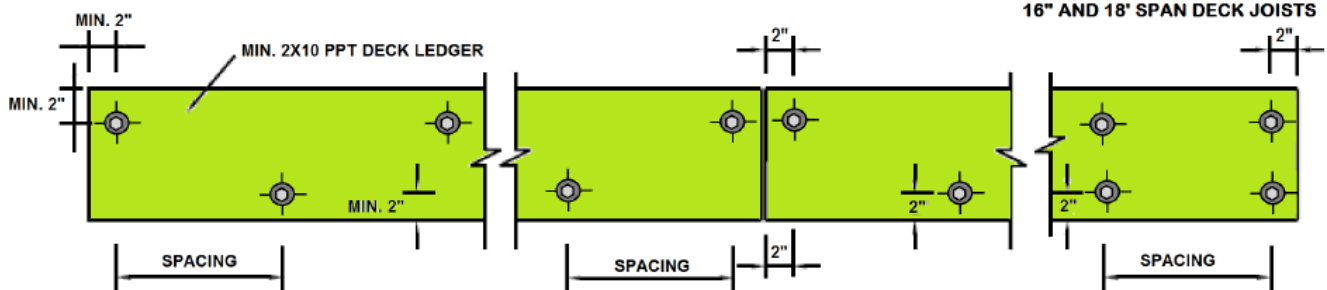
2-SHEETS OF GLUED AND NAILED 23/32" WOOD STRUCTURAL PANEL BLOCKING CUT-TO-FIT TIGHTLY BETWEEN TRUSSES, SILL PLATE, AND RIBBON BOARD. ATTACH PLYWOOD SHEETS USING 8D DEFORMED SHANK TOE-NAILS AT MAX. 4" O.C.

FOR 16" DEEP TRUSSES AND LESS, STRUCTURAL COMPOSITE LUMBER AND/OR 2X12 DIMENSION LUMBER CUT-TO-FIT TIGHT BETWEEN THE FLOOR TRUSSES AND SILL PLATE AND RIBBON BOARD CAN ALSO BE USED.





LADDER TRUSS FRAMES WITH MIDDLE VERTICAL SPACED AT 9-1/2" O.C. INSTALLED SNUG-TIGHT BETWEEN THE FLOOR TRUSSES, SILL PLATE AND RIBBON BOARD. FOR 14' TO 18' DECK SPANS USE TRUSS FRAMES WITH 4X4 MIDDLE VERTICAL.



Method for installing 1/2"-diameter lag screws or bolts for use with Table 1. Fasteners should be staggered and installed with min. edge spacing of 2" as shown in the figure. For 16' and 18' deck joist spans use 2-rows of 1/2"-diam. fasteners as shown in Table 1 and figure.

Table 1. Fastener on-center spacing for PPT Hem-Fir or Southern Pine Residential Deck Ledgers attached to Parallel Chord Floor Truss System of the Existing Structure

CONNECTION DETAIL	RESIDENTIAL DECK JOIST SPAN CONNECTION DETAIL		
	6 to 8 feet	10 to 14 feet	16 to 18 feet
1/2"-Diameter Lag Screws with 15/32"-thick Wood Structural Panel Sheathing	24 " oc	12 " oc	2-rows of 1/2"-Diam. screws @ 12" oc
1/2"-Diameter Bolts with 15/32"-thick Wood Structural Panel Sheathing	24 " oc	24 " oc	2-rows of 1/2"-Diam. bolts @ 24" oc

* Ledger to be nailed before bolting with 16d nails (0.131x3.5") at 6" o.c. staggered spacing.

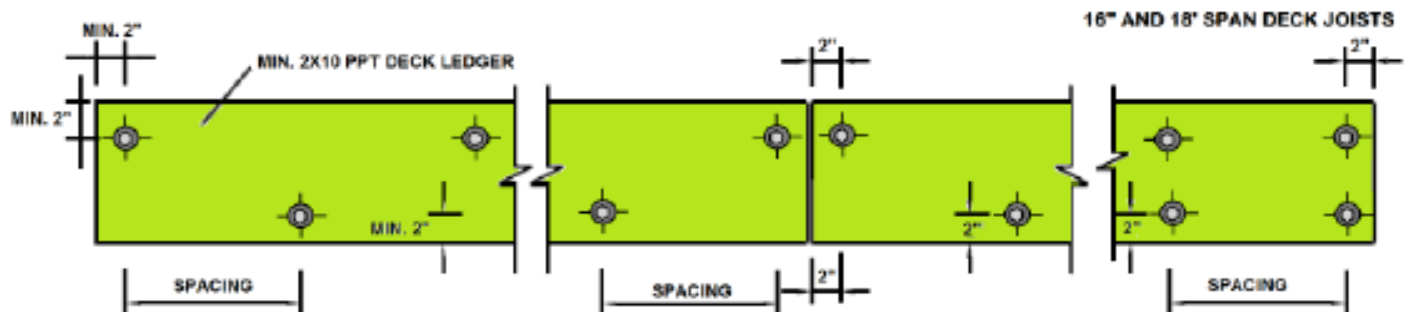
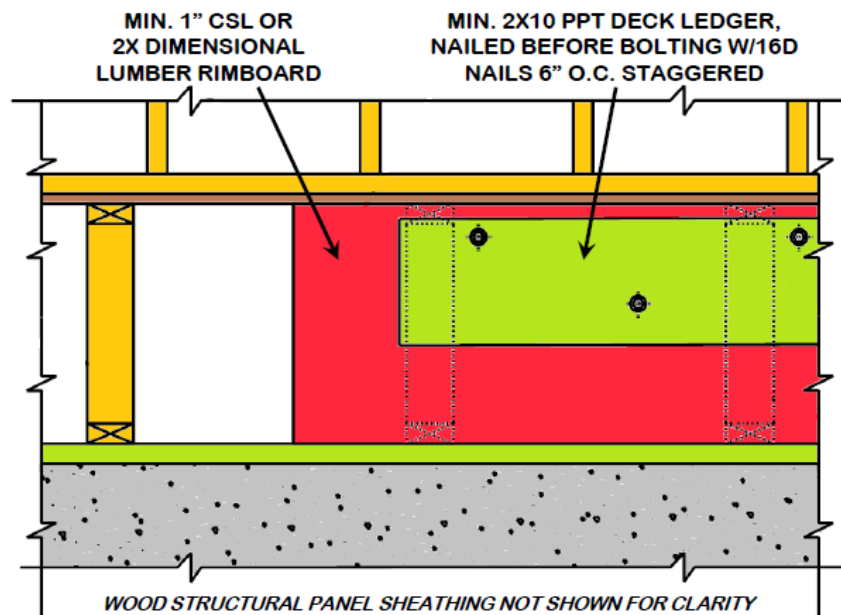
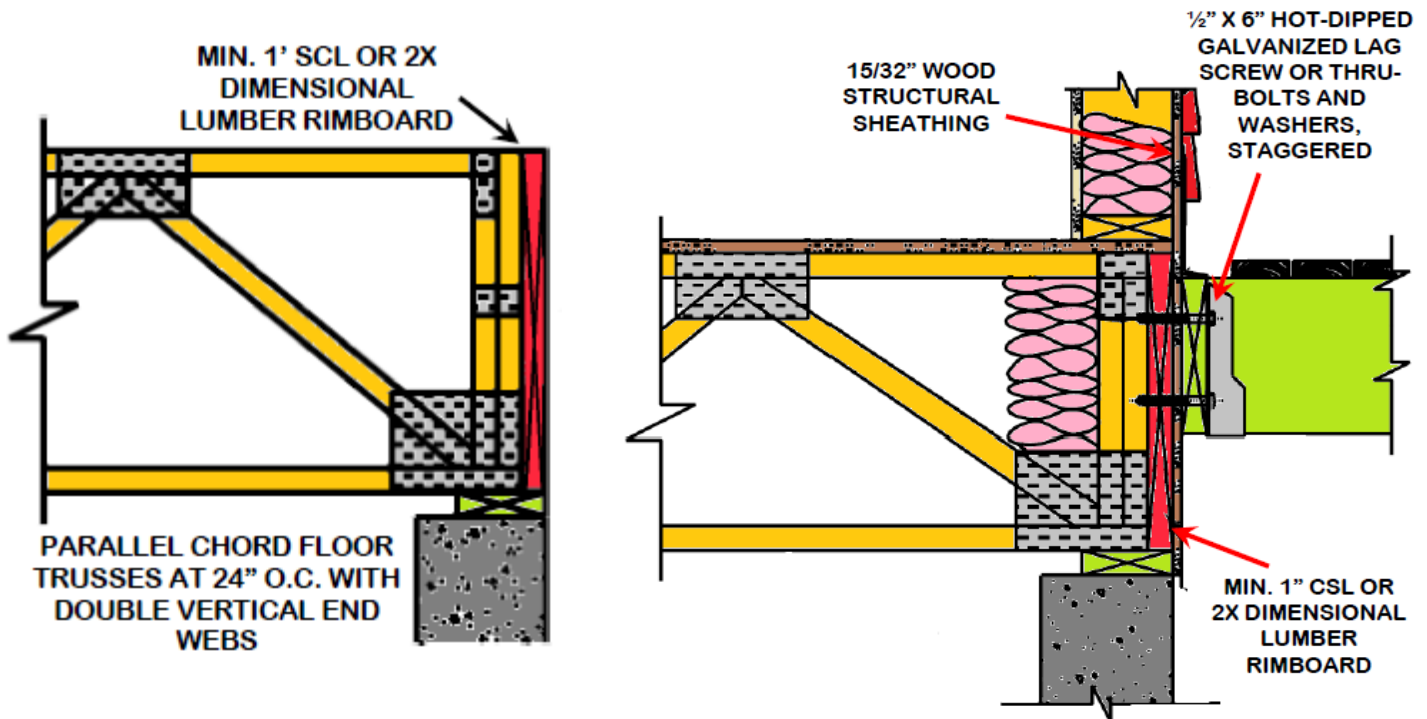
** Ledger-to-house connection design load for Hem-Fir Ledger, 15/32" Wood Structural Sheathing and 2X SPF Dimensional Lumber Rimboard is 450 lbs if 1/2"-diameter lag screw is used and 880 lbs if 1/2"-diameter bolt is used. For the same configuration except using LVL Rimboard (SCL with $G \geq 0.50$), the connection design load is 460 lbs if 1/2"-diameter lag screw is used and 850 lbs if 1/2"-diameter bolt is used.

GENERAL NOTES

- All floor truss members used to connect deck ledger shall be SPF, Hem-Fir, Doug-Fir-Larch, or Southern Pine
- Rim board lumber shall be SPF, Hem-Fir, Doug-Fir-Larch, or Southern Pine
- Structural composite lumber rim board with thickness $\geq 1"$
- Pressure preservative treated deck ledger lumber to be SPF, Hem-Fir, Doug-Fir-Larch, or Southern Pine. Deck ledger can be incised and wet.
- PPT deck ledger shall be to a retention level of .40 lbs/ft³ of ACQ. No wood decay present is allowed.
- No fastener corrosion is allowed. All fasteners shall be hot-dip galvanized or 316 stainless steel.
- Lag screws and bolts shall be installed according to 2005 NDS requirements. Lead holes for lag screws shall be equal to the root diameter of the threaded portion and the clearance holes shall be 1/2" in diameter. Bolts must be installed with 9/16" diameter clearance holes.
- Squash and/or blocking panels between the truss, sill plate and ribbon board shall be cut to fit tight (snug fit) and be attached using deformed shank 8d nails spaced at max. 4" o.c.

ATTACHING DECK LEDGER TO STRUCTURAL COMPOSITE LUMBER OR 2X DIMENSIONAL LUMBER RIMBOARD

THE FOLLOWING DO NOT ADDRESS THE LATERAL LOAD CONNECTION REQUIRED



Method for installing 1/2"-diameter lag screws or bolts for use with Table 2, Fasteners should be staggered and installed with min. edge spacing of 2" as shown in the above figure.

Table 2. Fastener on-center spacing for PPT Hem-Fir or Southern Pine Residential Deck Ledgers attached to Structural Composite Rimboard or 2x Lumber Rimboard

CONNECTION DETAIL	RESIDENTIAL DECK JOIST SPAN CONNECTION DETAIL						
	6 feet	8 feet	10 feet	12 feet	14 feet	16 feet	18 feet
1/2"-Diameter Lag Screws with 15/32"-thick Wood Structural Panel Sheathing *	30" oc	23" oc	18" oc	15" oc	13" oc	11" oc	10" oc
1/2"-Diameter Bolts with 15/32"-thick Wood Structural Panel Sheathing *	36 " oc	36 " oc	34" oc	29" oc	24" oc	21" oc	19" oc

* Ledger to be nailed before bolting with 16d nails (0.131x3.5") at 6" o.c. staggered spacing.

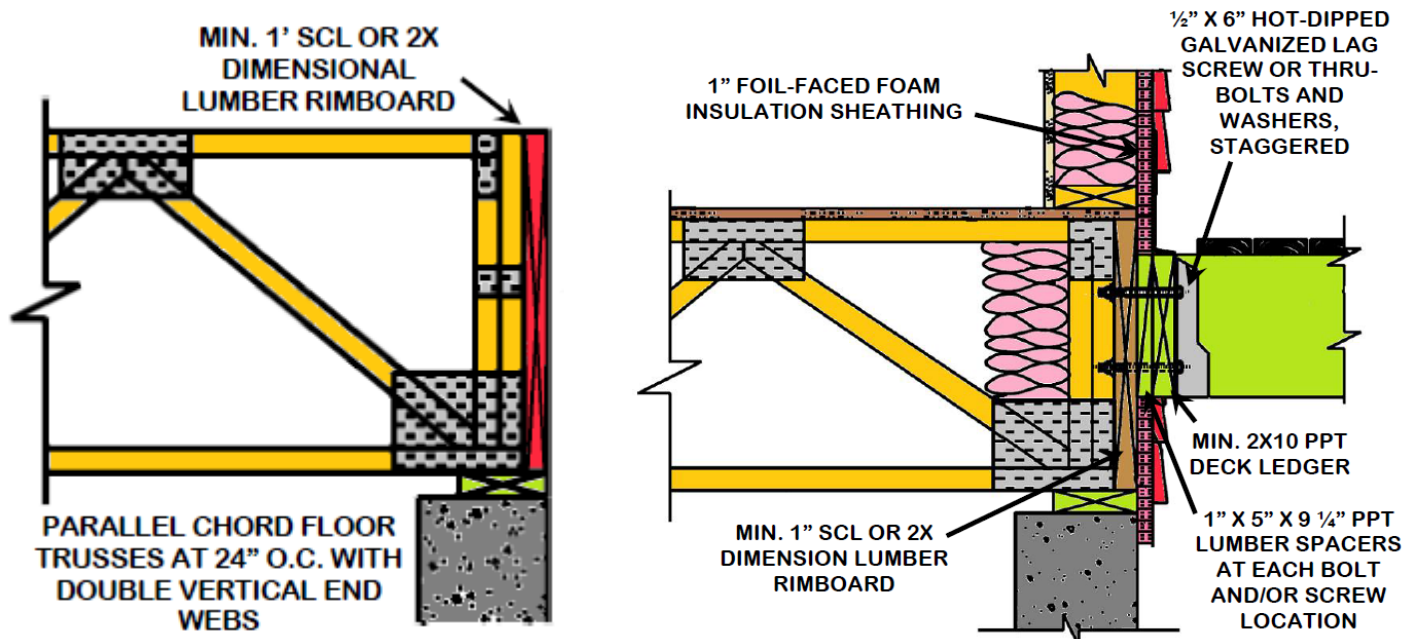
** Ledger-to-house connection design load for Hem-Fir Ledger, 15/32" Wood Structural Sheathing and 2X SPF Dimensional Lumber Rimboard is 450 lbs for 1/2"-diameter lag screw and 880 lbs for 1/2"-diameter bolts. For the same configuration except using LVL Rimboard (SCL with $G \geq 0.50$), the connection design load is 460 lbs if 1/2"-diameter lag screw is used and 850 lbs if 1/2"-diameter bolt is used.

GENERAL NOTES

- All floor truss members used to connect deck ledgers shall be SPF, Hem-Fir-Larch, and Southern Pine.
- Rim board lumber shall be SPF, Hem-Fir-Larch, and Southern Pine.
- Structural composite lumber rim board with a thickness $\geq 1"$
- Pressure preservative treated deck ledger shall be SPF, Hem-Fir-Larch, and Southern Pine.
- PPT deck ledger shall be treated to a retention level of 0.40 lbs/ft³ of ACQ. No wood decay present is allowed.
- No fastener corrosion is allowed. All fasteners to be hot-dip galvanized or "316 stainless steel"
- Lag screws and bolts shall be installed according to 2005 NDS requirements. Lead holes for lag screws to be equal to the root diameter of the threaded portion and the clearance holes to be 1/2" diameter. Bolts to be installed with 9/16" diameter clearance holes.
- The rimboard must be adequately anchored to the house framing to resist deck horizontal loads normal to the wall. Design and connection of the rimboard to the house is the building designers responsibility.

ATTACHING DECK LEDGER TO STRUCTURAL COMPOSITE LUMBER OR 2X DIMENSIONAL LUMBER RIMBOARD WITH FOAM SHEATHING

THE FOLLOWING DO NOT ADDRESS THE LATERAL LOAD CONNECTION REQUIRED



GENERAL NOTES

- All floor truss members used to connect deck ledgers shall be SPF, Hem-Fir-Larch, and Southern Pine.
- Rim board lumber shall be SPF, Hem-Fir-Larch, and Southern Pine.
- Structural composite lumber rim board with a thickness $\geq 1"$
- Pressure preservative treated deck ledger shall be SPF, Hem-Fir-Larch, and Southern Pine.
- PPT deck ledger with $G \geq 0.43$. Deck ledger can be incised and wet.
- No fastener corrosion is allowed. All fasteners to be hot-dip galvanized or "316 stainless steel"
- Lag screws and bolts shall be installed according to 2005 NDS requirements. Lead holes for lag screws to be equal to the root diameter of the threaded portion and the clearance holes to be $\frac{1}{2}"$ diameter. Bolts to be installed with $\frac{9}{16}"$ diameter clearance holes.
- The rimboard must be adequately anchored to the house framing to resist deck horizontal loads normal to the wall. Design and connection of the rimboard to the house is the building designers responsibility.

ATTACHING DECK LEDGER TO STRUCTURAL COMPOSITE LUMBER OR 2X DIMENSIONAL LUMBER RIMBOARD WHEN FLOOR TRUSSES ARE PARALLEL TO DECK LEDGER

THE FOLLOWING DO NOT ADDRESS THE LATERAL LOAD CONNECTION REQUIRED

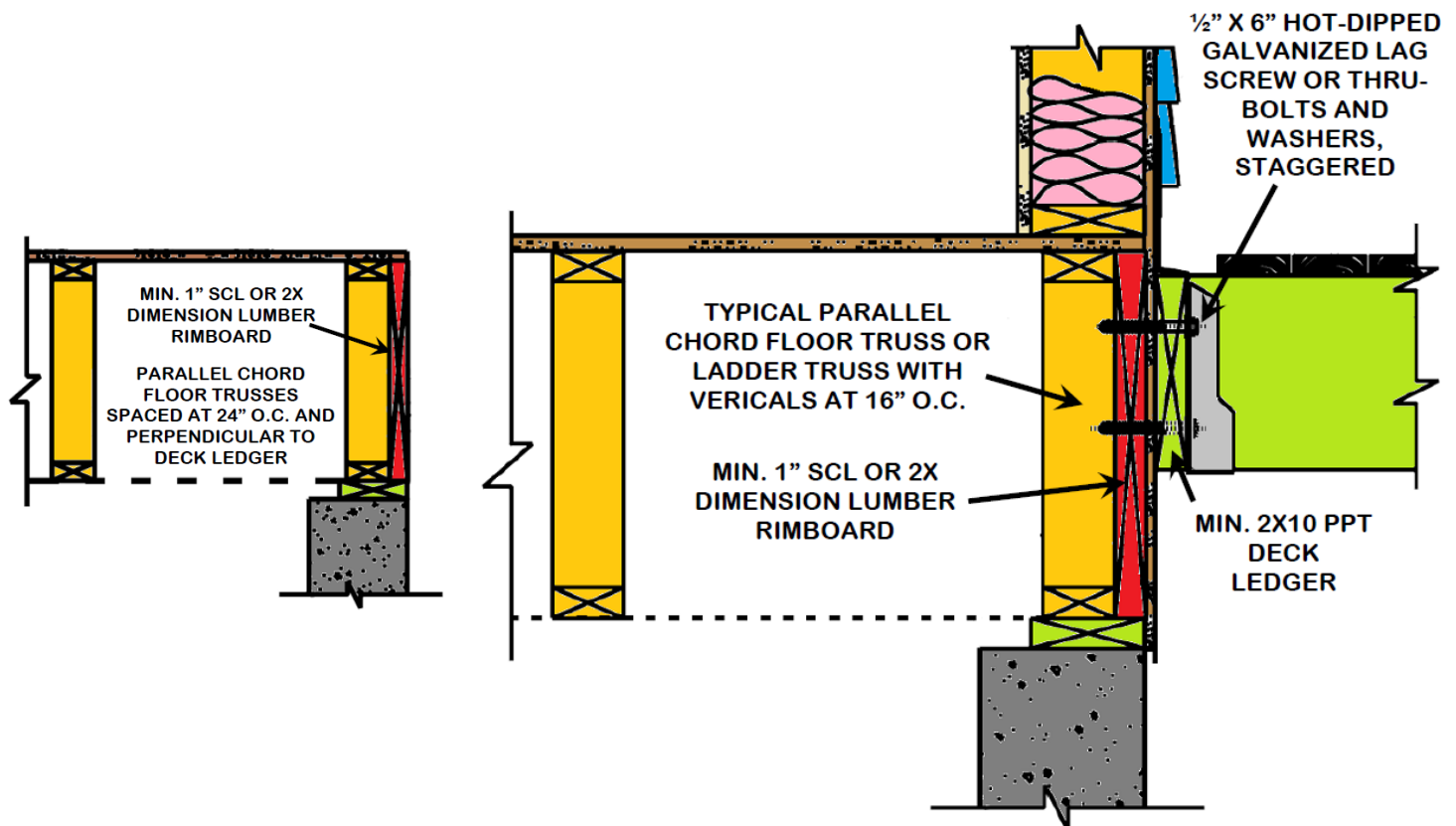


Table 4. Fastener on-center spacing for PPT Hem-Fir or Southern Pine Residential Deck Ledgers attached to Structural Composite Rimboard or 2x Lumber Rimboard

CONNECTION DETAIL	RESIDENTIAL DECK JOIST SPAN CONNECTION DETAIL						
	6 feet	8 feet	10 feet	12 feet	14 feet	16 feet	18 feet
1/2"-Diameter Lag Screws with 15/32"-thick Wood Structural Panel Sheathing *	30" oc	23" oc	18" oc	15" oc	13" oc	11" oc	10" oc
1/2"-Diameter Bolts with 15/32"-thick Wood Structural Panel Sheathing *	36 " oc	36 " oc	34" oc	29" oc	24" oc	21" oc	19" oc

* Ledger to be nailed before bolting with 16d nails (0.131x3.5") at 6" o.c. staggered spacing.

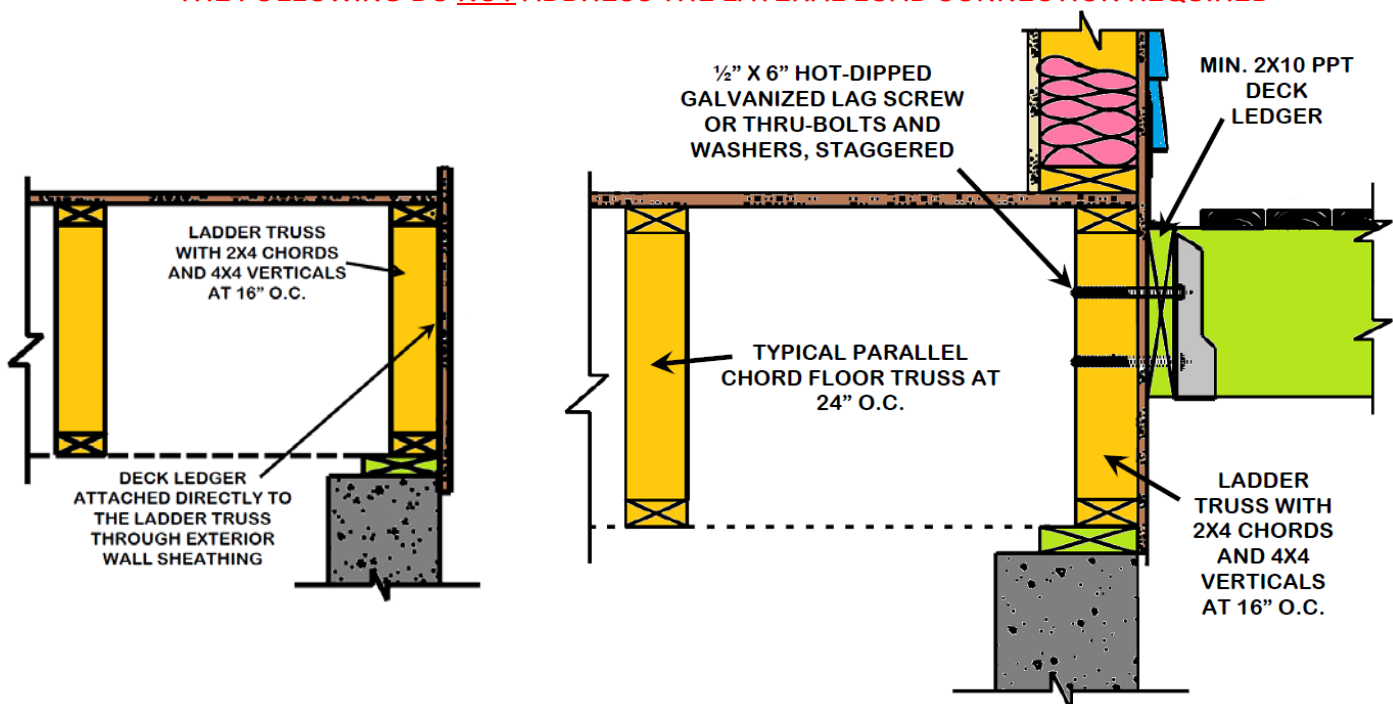
** Ledger-to-house connection design load for Hem-Fir Ledger, 15/32" Wood Structural Sheathing and 2X SPF Dimensional Lumber Rimboard is 450 lbs for 1/2"-diameter lag screw and 880 lbs for 1/2"-diameter bolts . For the same configuration except using LVL Rimboard (SCL with $G \geq 0.50$), the connection design load is 460 lbs if 1/2"-diameter lag screw is used and 850 lbs if 1/2"-diameter bolt is used.

GENERAL NOTES

- All floor truss members used to connect deck ledgers shall be SPF, Hem-Fir-Larch, and Southern Pine.
- Rim board lumber shall be SPF, Hem-Fir-Larch, and Southern Pine.
- Structural composite lumber rim board with a thickness $\geq 1"$
- Pressure preservative treated deck ledger shall be SPF, Hem-Fir-Larch, and Southern Pine.
- PPT deck ledger with $G \geq 0.43$. Deck ledger can be incised and wet.
- PPT deck ledger shall be treated to a retention level of 0.40 lbs/ft³ of ACQ. No wood decay present is allowed.
- No fastener corrosion is allowed. All fasteners to be hot-dip galvanized or "316 stainless steel"
- Lag screws and bolts shall be installed according to 2005 NDS requirements. Lead holes for lag screws to be equal to the root diameter of the threaded portion and the clearance holes to be 1/2" diameter. Bolts to be installed with 9/16" diameter clearance holes.
- The rimboard must be adequately anchored to the house framing to resist deck horizontal loads normal to the wall. Design and connection of the rimboard to the house is the building designers responsibility.

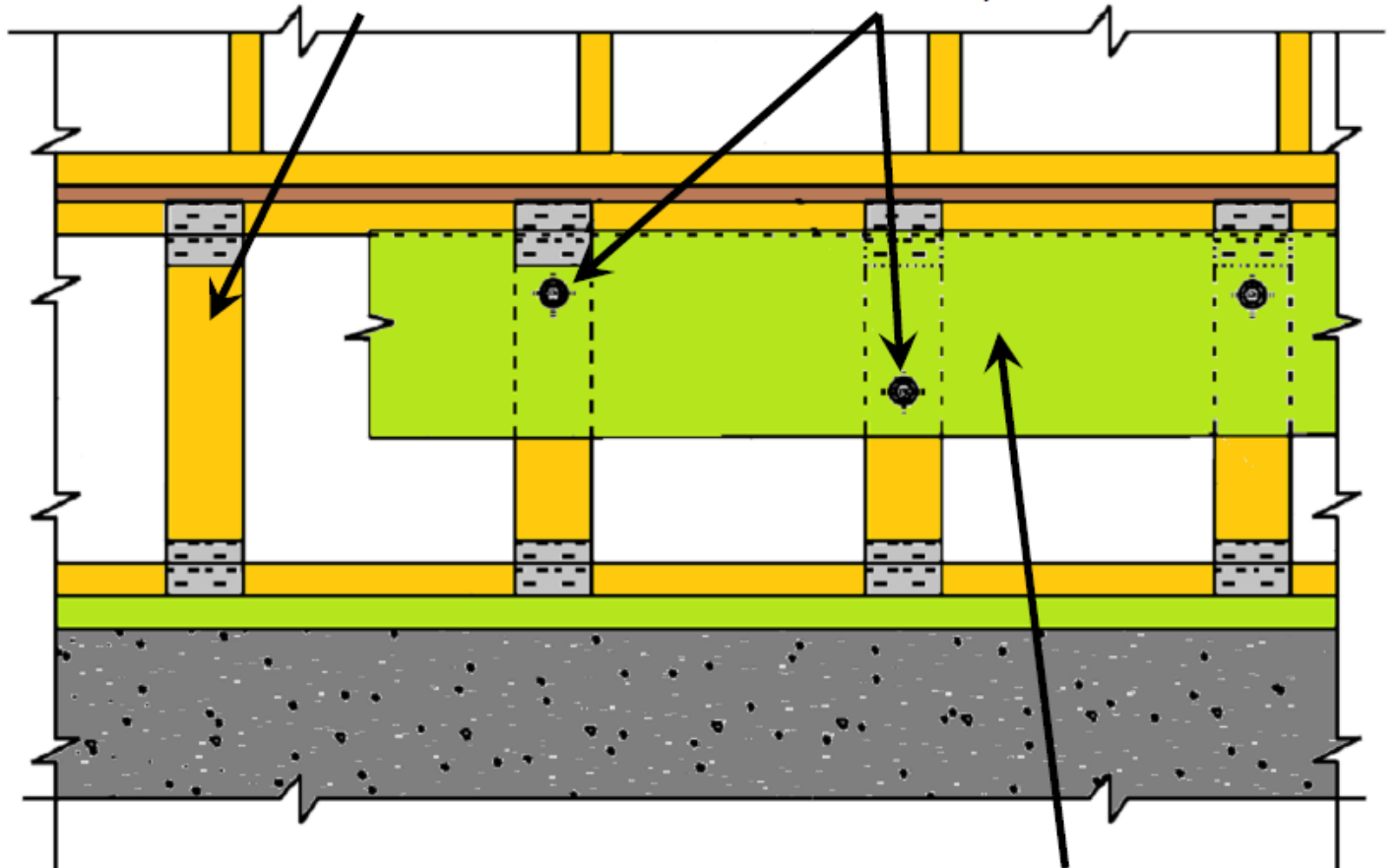
ATTACHING DECK LEDGER TO LADDER TRUSS INSTALLED PARALLEL TO THE DECK LEDGER

THE FOLLOWING DO NOT ADDRESS THE LATERAL LOAD CONNECTION REQUIRED



**LADDER TRUSS WITH 2X4
CHORDS AND 4X4 VERTICALS
SPACED AT 24", 19.2", 16", AND
12" O.C.**

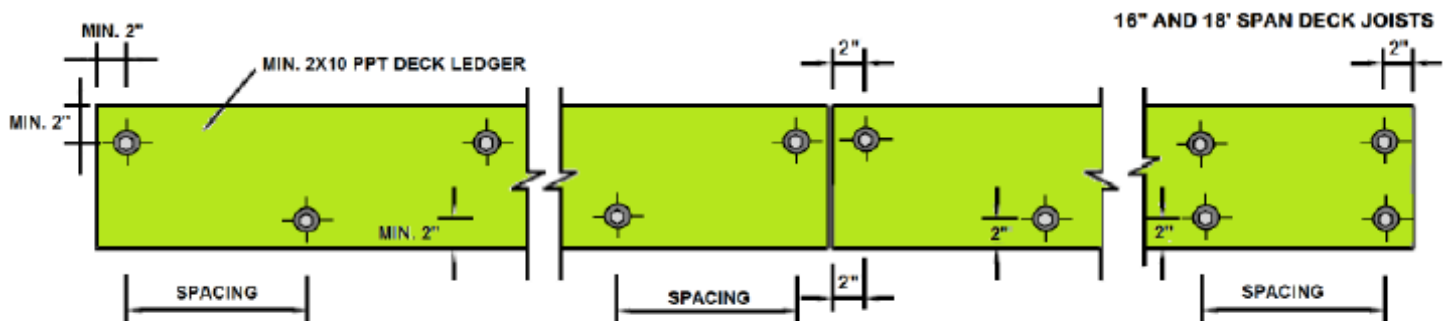
**1/2" X 6" HOT-DIPPED
GALVANIZED LAG SCREW
OR THRU-BOLTS AND
WASHERS, STAGGERED**



**NOTE: LAG SCREW AND/OR BOLT
ON-CENTER SPACING IS ALIGNED
WITH THE ON-CENTER SPACING
OF DADDER TRUSS VERTICALS AS
PROVIDED BELOW**

**MIN. 2X10 PPT DECK LEDGER
NAILED TO THE TRUSS
VERTICAL-END-WEBS WITH
(3) 16D NAILS PER TRUSS
BEFORE BOLTING**

WOOD STRUCTURAL PANEL SHEATHING NOT SHOWN FOR CLARITY



Method for installing 1/2"-diameter lag screws or bolts for use with Table 2. Fasteners should be staggered and installed with min. edge spacing of 2" as shown in the above figure.

Table 5. Fastener on-center spacing for PPT Hem-Fir or Southern Pine Residential Deck Ledgers attached directly to Ladder Truss

CONNECTION DETAIL	RESIDENTIAL DECK JOIST SPAN CONNECTION DETAIL						
	6 feet	8 feet	10 feet	12 feet	14 feet	16 feet	18 feet
1/2"-Diameter Lag Screws with 15/32"-thick Wood Structural Panel Sheathing *	24" oc	24" oc	19.2" oc	16" oc	12" oc	12" oc	10" oc*
1/2"-Diameter Bolts with 15/32"-thick Wood Structural Panel Sheathing *	24" oc	24" oc	24" oc	24" oc	24" oc	24" oc	19" oc

* Use of 1/2"-Diameter Lag Screws for deck joist span of 18 feet is not recommended. However, 1/2"- Diameter Lag Screws can still be used if the Ladder Truss vertical webs are spaced at 10" o.c.

** Ledger to be nailed to the truss vertical-end-webs before bolting with three (3) common 16d nails per truss.

*** Ledger-to-house connection design load for Hem-Fir Ledger, 15/32" Wood Structural Sheathing and 2X SPF Dimensional Lumber Rimboard is 450 lbs for 1/2"-diameter lag screw and 880 lbs for 1/2"-diameter bolts. For the same configuration except using LVL Rimboard (SCL with $G \geq 0.50$), the connection design load is 460 lbs if 1/2"-diameter lag screw is used and 850 lbs if 1/2"-diameter bolt is used.

GENERAL NOTES

- All floor truss members used to connect deck ledgers shall be SPF, Hem-Fir-Larch, and Southern Pine.
- Rim board lumber shall be SPF, Hem-Fir-Larch, and Southern Pine.
- Structural composite lumber rim board with a thickness $\geq 1"$
- Pressure preservative treated deck ledger shall be SPF, Hem-Fir-Larch, and Southern Pine.
- PPT deck ledger with $G \geq 0.43$. Deck ledger can be incised and wet.
- PPT deck ledger shall be treated to a retention level of 0.40 lbs/ft³ of ACQ. No wood decay present is allowed.
- No fastener corrosion is allowed. All fasteners to be hot-dip galvanized or "316 stainless steel"
- Lag screws and bolts shall be installed according to 2005 NDS requirements. Lead holes for lag screws to be equal to the root diameter of the threaded portion and the clearance holes to be 1/2" diameter. Bolts to be installed with 9/16" diameter clearance holes.