CITY OF PORTLAND, MAINE RESURGAM
Reviewed for Code Compliance
Inspections Division
Approved with Conditions
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Placement of lag screws or bolts in deck ledgers
The lag screws or bolts shall be placed as shown in Figure 19. The lag screws or bolts shall be staggered from the top to the bottom along the horizontal run of the deck ledger (see Figure 19). Proper installatio screws or bolts shall be verified by the authority l jurisdiction.

Figure 19: Ledger Board Fastener Spacing and Clearances

Thru-Bolts
Thru-bolts shall have a diameter of ½". Pilot holes for thru-bolts shall be $^{17}/_{32}$" to $^{9}/_{16}$" in diameter. Thru-bolts require washers at the bolt head and nut.

Expansion and Adhesive Anchors
Use approved expansion or adhesive anchors when attaching a ledger board to a concrete or solid masonry wall as shown in Figure 15 or a hollow masonry wall with a grouted cell as shown in Figure 16. Expansion and adhesive anchor bolts shall have a diameter of ½". Minimum spacing and embedment length shall be per the manufacturer's recommendations. All anchors must have washers.

Lag Screws
Lag screws shall have a diameter of ½" (see MINIMUM REQUIREMENTS). Lag screws may be used only when the field conditions conform to those shown in Figure 14. See Figure 20 for lag screw length and shank requirements. All lag screws shall be installed with washers.

Figure 20: Lag Screw Requirements

Lag screw installation requirements: Each lag screw shall have pilot holes drilled as follows: 1) Drill a ½" diameter hole in the ledger board, 2) Drill a $^{5}/_{16}$" diameter hole into the band board of the existing house. DO NOT DRILL A ½" DIAMETER HOLE INTO THE BAND BOARD.

The threaded portion of the lag screw shall be inserted into the pilot hole by turning. DO NOT DRIVE LAG SCREWS WITH A HAMMER. Use soap or a wood-compatible lubricant as required to facilitate tightening. Each lag screw shall be thoroughly tightened (snug but not over-tightened to avoid wood damage).