### Structural Building Components Association (SBCA)

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<table>
<thead>
<tr>
<th>Joist Span</th>
<th>6'-1&quot; to 8'</th>
<th>8'-1&quot; to 10'</th>
<th>10'-1&quot; to 12'</th>
<th>12'-1&quot; to 14'</th>
<th>14'-1&quot; to 16'</th>
<th>16'-1&quot; to 18'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection Details</td>
<td>On-center Spacing of Fasteners (in.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/2&quot; x 6&quot; lag screw with 13/64&quot;, max., wood structural sheathing</td>
<td>12(^5)</td>
<td>12(^5)</td>
<td>12(^5)</td>
<td>8(^6)</td>
<td>8(^6)</td>
<td>8(^6)</td>
</tr>
<tr>
<td>3/8&quot; diameter bolt with 13/64&quot;, max., wood structural sheathing</td>
<td>24</td>
<td>24</td>
<td>24</td>
<td>12(^5)</td>
<td>12(^5)</td>
<td>12(^5)</td>
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</tbody>
</table>

1. Ledgers shall be flashed in accordance with applicable building code requirements to prevent water from contacting the exposed wood structural sheathing and floor truss.
2. Snow load shall not be assumed to act concurrently with live load.
3. Ledgers must be 2x10 or 2x12 PPT or code-approved decay-resistant lumber with specific gravity, G ≥ 0.43. Truss 2x4 end verticals and key-blocks must have a G ≥ 0.42.
4. Stagger lag screws and bolts as shown in Table 1.3.
5. Requires key-blocks at 24" o.c., maximum. Attach ledger to 2x4 end vertical of each truss with one (1) fastener and to each key-block with one (1) fastener. Refer to Table 1.3 for key-block construction and installation information.
6. Requires two (2) key-blocks at 8" o.c., maximum, between each truss. Attach ledger to 2x4 end vertical of each truss with one (1) fastener and to each key-block with one (1) fastener. Refer to Table 1.3 for key-block construction and installation information.

Table 1: Deck Ledger Connection to Ends of MPCW Floor Trusses Spaced 24" o.c., Max.\(^{1,2,3}\)  
(Deck Live Load = 60 psf, Deck Dead Load = 10 psf, Snow Load ≤ 60 psf)
Attachment of Residential Deck Ledger to Metal Plate Connected Wood Truss Floor Systems – 60 psf End Connection

DrJ Design Detail

**WALL SECTION**

**NOTE:** EXTERIOR CLADDING AND FLASHING NOT SHOWN FOR CLARITY.

**2X4 RIBBON BOARD:** DO NOT ATTACH LEDGER TO RIBBON BOARD

**METAL CONNECTOR PLATE, TYP.**

**EXISTING STUD WALL**

**DOUBLE 2X4 END VERTICAL AND/OR KEY BLOCK MINIMUM SPECIFIC GRAVITY:** 0.54

**MAX 1/8" THICK WOOD STRUCTURAL PANEL SHEATHING FASTENED PER BUILDING CODE**

**STaggered 1/2" Dia. x 6" Lag Screws with Washers or 1/2" Diameter Bolts with Nuts and Washers.** INSTALLATION SECTION OR REPORT FOR MINIMUM CORROSION RESISTANCE REQUIREMENTS. INSTALL ONE FASTENER THROUGH CENTER LINE OF EACH EAVES ENTRANCE AND/OR KEY BLOCK FOR THE SPACING REQUIREMENTS PROMISED BELOW AND IN TABLES 1 & 2. TAKE CARE SO FASTENERS DO NOT INTERFERE WITH CONNECTOR PLATES AT TOP AND BOTTOM CHORD JOINTS

**DECK BOARDS AND JOIST**

**JOIST HANGER**

**2X10 OR 2X12 PRESSURE-PRESERVED TREATED (PT) OR APPROVED DECK RESISTANT LEDGERS. MINIMUM SPECIFIC GRAVITY:** 0.54

**LOAD BEARING WALL**

**Attachment of Residential Deck Ledger to Metal Plate Connected Wood Truss Floor Systems – 60 psf End Connection**

**Detail 1.1**

**Attachment of Residential Deck Ledger to Metal Plate Connected Wood Truss Floor Systems – 60 psf End Connection**

**Detail 1.2**

**Attachment of Residential Deck Ledger to Metal Plate Connected Wood Truss Floor Systems – 60 psf End Connection**

**Detail 1.3**

**Attachment of Residential Deck Ledger to Metal Plate Connected Wood Truss Floor Systems – 60 psf End Connection**

**Placement of Lag Screws and Bolts in Ledger**

**Refer to Tables 1 & 2**

**Direction of Load**

**Attachment of Residential Deck Ledger to Metal Plate Connected Wood Truss Floor Systems – 60 psf End Connection**

**Key-Block Detail for Ledger Attached to End of Trusses**

**Attachment of Residential Deck Ledger to Metal Plate Connected Wood Truss Floor Systems – 60 psf End Connection**
DrJ Design Detail

1. General Notes:
   1.1. Ledger must be identified by the grade mark of, or certificate of inspection issued by, an approved lumber grading or inspection bureau or agency.
   1.2. PPT material must be pressure treated with an approved process in accordance with American Wood Protection Association standards.

2. Fasteners
   2.1. Lag screws and bolts must be installed according to 2012 NDS requirements:
      2.1.1. ½" x 6" lag screws
         2.1.1.1. Lead holes for the threaded portion must be 5/16".
         2.1.1.2. Clearance holes must be ½" and the same depth of penetration as the length of unthreaded shank.
      2.1.2. ½"-diameter bolts:
         2.1.2.1. Holes must be a minimum of 17/32" to a maximum of 9/16".
   2.2. All fasteners used with PPT wood must be hot-dip zinc-coated (ie, Galvanized steel, Stainless steel, Silicon bronze, Copper).
   2.3. Fasteners must meet ASTM A153, Class D, for fasteners 3/8" diameter and smaller or Class C for fasteners with diameters over 3/8".
   2.4. Lag screws, bolts, nuts and washers are permitted to be mechanically deposited zinc-coated steel with coating weights

3. Hardware
   3.1. All hardware (e.g., joist hangers, hold-down devise, etc.) must be galvanized or stainless steel.
   3.2. Hardware hot-dipped prior to fabrication must meet ASTM A653, G-185 coating.
   3.3. Hardware hot-dipped post fabrication must meet ASTM A123.
   3.4. Hardware exposed to saltwater or located within 300' of a saltwater shoreline must be stainless steel grade 304 or 316.
   3.5. Other coated or non-ferrous hardware must be approved by the authority having jurisdiction.