Acoustic Sleeper Installation Instructions:

May 21, 2019

INSTALLATION WITH WOOD FRAMING:
Typical Installation: Fasten Acoustic Sleeper pads to underside of panel, flip and set in place over deck.

1. Sheathing: Install square-edged sheathing panels on structural members. Maintain 1/8" gap at unsupported edges to allow wicking and evaporation of any moisture by vapor pressure differential.
2. Subfloor panels: Structural T&G panels of OSB or plywood.
3. Preplan spacing of Acoustic Sleeper pads for minimal deflection based on panel thickness and live loads. Refer to Table at right for quantity of pads for spacing.
4. Preplan layout of panels with staggered joints along T&G edges.
5. Plan pad locations to occur over structural members.
   a. Where wood load-bearing walls are to be installed on subfloor panels use ¼"-thick continuous strips minimum full width of partitions as bearing plates.
   b. Install perimeter nailing strips where load-bearing walls have already been placed.

Area per 100 Pads		
Structural Spacing	Pad Spacing	
	16"	24"
16"	133	200
19.2"	152	229
24"	200	266

6. Lay subfloor panels upside down and staple pads to underside:
   a. In field 24" oc max;
   b. Along trailing T&G edge at 24" oc max;
   c. Along trailing square edge at 8" oc max; *Option:* Rout tongue and groove in opposite square edges.
   d. Overlap pads with ribs perpendicular to edge; *Omit pads at leading edges.*
7. Flip panels into position with leading edge down so overlapping pads do not dislodge.
8. Install in sequence so leading edge of panel sits on pads installed in trailing edges of previously set panel. Leave ¼" distance from edge of panels to walls.
   a. If desired or specified, place a ¼" bead of adhesive along butt edge of panels to minimize differential deflection.
   b. Set T&G edge with block and mallet.
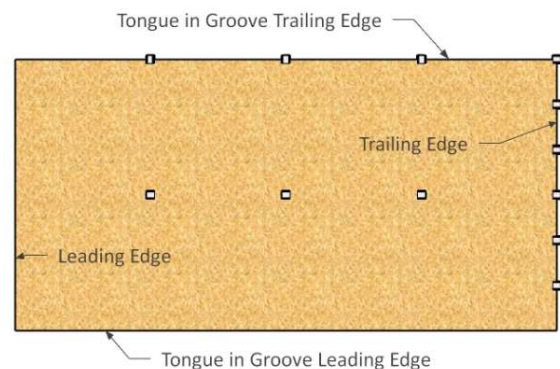9. At fire-rated wood construction, fasten through pads to structural members. *Only fasten through pads.*
   a. Location of pads at leading edges will be evident next to nails or screws at previously-laid trailing edges.
   b. Pads in field are located at grid lines over structural members.
   c. Pads at trailing edges are exposed.
   d. *Fastening is not required for non-fire-rated construction.*
10. Prepare subfloor and Install finish floor per manufacturer's instructions.

INSTALLATION ON SOLID DECKS: Concrete, Cross-Laminated Timber, Existing Decks

<u>Typical Installation: Fasten Acoustic Sleeper pads to underside of panel, flip and set in place over deck.</u>

1. Subfloor panels: Structural T&G panels of OSB or plywood.
2. Preplan spacing of Acoustic Sleeper pads for minimal deflection based on panel thickness and live loads. Refer to Table at right for quantity of pads for spacing.
3. Preplan layout of panels with staggered joints along T&G edges.
4. Lay subfloor panels upside down on deck. Staple pads to underside:
   a. In field 24" oc max;
   b. Along trailing T&G edge at 24" oc max with pads overlapping joints; place with ribs perpendicular to edge.
5. Square edge shall be one of the following:
   a. 4-sided T&G: Rout, in shop or field, tongue along one square edge, groove along the other.
   b. 2-sided T&G: Install 44" strip along trailing edge.
6. *Omit pads at leading edges.*
7. Flip panels into position with leading edge down so overlapping pads do not dislodge.
8. Install in sequence so leading edge of panel sits on pads installed in trailing edges of previously set panel. Leave ¼" distance from edge of panels to walls.
   a. Either fasten panels to deck through strip, or place a 1/8" bead of adhesive along butt edge of panels and on strip to minimize differential deflection.
   b. Set T&G edge with block and mallet.
9. Subfloor panels do not need to be fastened to deck. If used, fasten only through pads and strip.
10. Prepare subfloor and install finish floor per manufacturer's instructions.

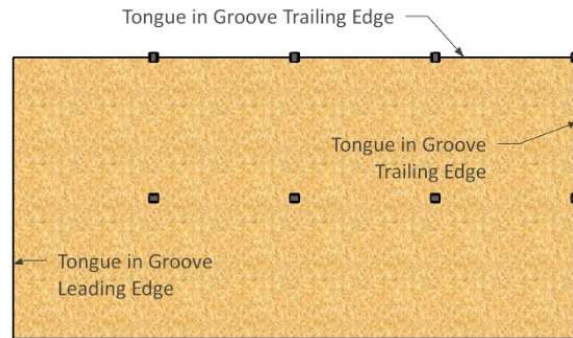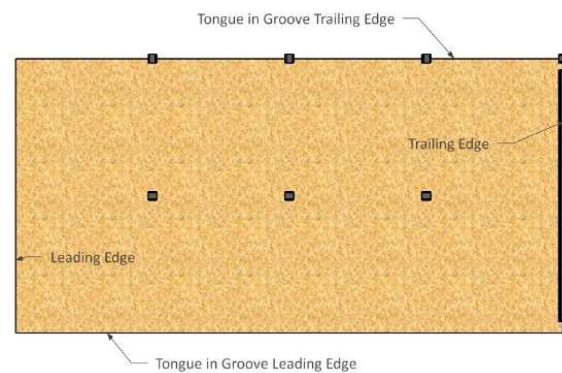| Area per 100 Pads		
Structural Spacing	Pad Spacing	
	16"	24"
16"	133	200
19.2"	152	229
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Figure 1: Four-sided tongue in groove

Figure 2: Two-sided tongue in groove with strip