



Acoustic Sleeper Installation Instructions

May 6, 2018

INSTALLATION IN 1-HOUR FIRE-RATED FLOOR/CEILING ASSEMBLIES:

1. Subfloor Panels: T&G span-rated wood structural panels.
2. Preplan layout of Acoustic Sleeper pads for minimal deflection based on panel thickness and live loads. Refer to Table at right for recommended spacing.
3. Where wood load-bearing walls are installed on

Acoustic Sleepers: Quantity Estimate					
Structural Support Spacing	Uniform Load (psi)	Minimum Panel Thickness	Pad Spacing		Area per 100 Pads (sf)
			Along Supports	At Butt Edges	
16"	40	19/32"	24"	8"	210
	100	19/32"	16"	8"	150
24"	40	19/32"	24"	8"	260
	100	23/32"	24"	8"	260

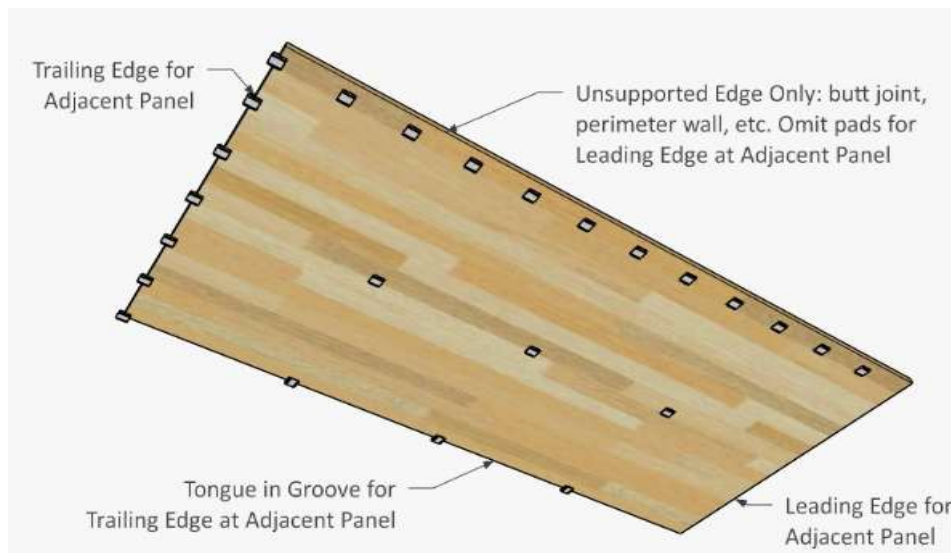
subfloor panels use 1/4"-thick continuous strips minimum full width of partitions as bearing plates and as draftstopping under fire partitions.

4. Staple sleeper pads and strips to the sheathing, centered over structural members.
 - a. Install pads with ribs perpendicular to edge at trailing T&G and butt edges.
 - b. Option: Install strips at butt edges to minimize differential deflection for tile floors.
5. Install pads along terminal edges such as walls.
6. Omit pads at leading edges of panels.
7. Lay tongue-in-groove subfloor panel over sleepers and plates with staggered joints along T&G edges.
 - a. Option: Adhere butt joints with adhesive to limit differential deflection.
8. Set T&G edge with block and mallet.
9. Fasten through sleepers to structural members. Do not fasten except through sleepers.
10. Install finish flooring per manufacturer's instructions.



ACOUSTIC UNDERLAYMENT SYSTEM: For solid structural decks

1. Subfloor Panels: Span-rated T&G panels.
 - a. For noncombustible Construction Types I & 2:
 - i. Noncombustible panels such as cement-based particle board; or
 - ii. Combustible wood structural panels where firestopped (IBC Sections 718.2.7 and 805.1). Fireblock materials can be $\frac{1}{4}$ " thick cement board strips or any other *approved* alternative per IBC 104.11 used as fill, void or cavity material such as fire sealants and foams.



2. Preplan layout of panels with staggered joints along T&G edges. Install Acoustic Sleeper pads:
 - 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;
 - c. Along trailing butt edge at 8" oc max with pads overlapping and ribs perpendicular;
 - d. Along terminal edges such as walls at 8" oc max.
 - e. Omit pads at leading edges.
3. Lay subfloor panels upside down on deck. Staple pads to underside.
 - a. Recommended staples: 18 gauge, $\frac{1}{2}$ " deep, $\frac{1}{4}$ " long top edge (Dewalt No. DNS 18050-2).
4. Flip panels into position with leading edge down so overlapping pads do not dislodge.
5. Install in sequence so leading edge of panel sits on pads installed in trailing edges of previously set panel. Leave $\frac{1}{4}$ " distance from edge of panels to walls.
6. Place a $\frac{1}{4}$ " bead of adhesive along butt edge of panels to minimize differential deflection.
7. Set T&G edge with block and mallet.
8. Install finish floor per manufacturer's instructions.

