



Details for Construction Type V-A with STC Acoustic Sleepers™

Details for bearing walls and demising partitions determine the sequence of installation and subsequent cost and performance. Partitions interior to the unit/room should be installed after the subfloor to avoid additional edge support and cutting of panels in small spaces.

CONTINUOUS SUBFLOOR INSTALLATION (Fig. 1):

Subfloor is completed over the entire floor plate prior to any partitions.

1. Install OSB sheathing panel on top of structural supports (trusses, TJI's or joists) in thickness per UL Design. Fasten per Code, IBC Table 2304.10.
2. Install ¼" continuous draftstop/bearing strips of plywood or OSB on sheathing, minimum width to match wall plate, centered on bearing walls and demising partitions for dwelling units (apartments) and sleeping rooms (hotels), IBC 718.3.2.
3. Install STC Acoustic Sleeper™ pads along line of structural supports at minimum 24" o.c. and as required for load, subfloor panel thickness, and desired deflection limits.
4. Install T&G subfloor panel over draftstop strips and pads, in thickness as required for load, subfloor panel thickness, and desired deflection limits.
 - a. Edge of panels should sit halfway across pads. Fasten through pads into structural supports. Do not fasten except through pads.
 - b. Pads will be evident at leading edges next to nails at previously laid trailing edges. Pads in field are located at grid lines. Pads overlap at trailing edges and can be slipped in after the subfloor panel is placed.
5. Install bearing and non-bearing partitions directly on top of subfloor.

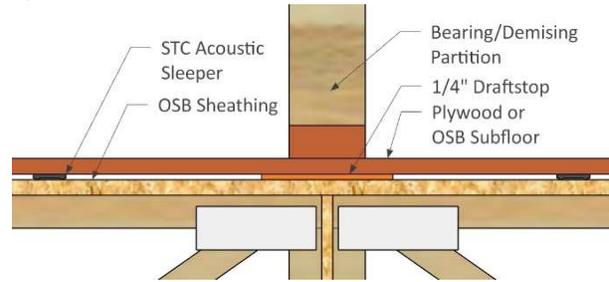


Figure 1: Continuous Subfloor

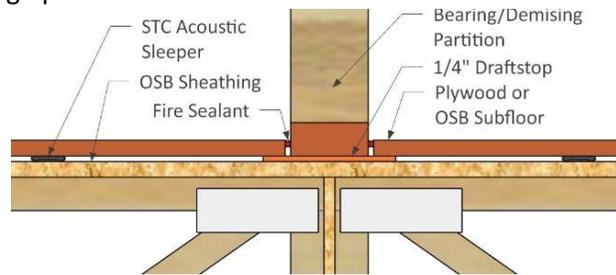


Figure 2: Supported Edge

SUPPORTED-EDGE SUBFLOOR INSTALLATION (Fig. 2): Draftstop is detailed 2-1/2" wider than the plate for support of the subfloor at unit/room perimeters. Bearing/demising partitions are set on the draftstop, then floor or roof above is framed, providing weather protection for subsequent installation of pads and subfloor.

FULL ISOLATION DETAIL (Fig. 3): Bearing and demising partitions are installed directly on the sheathing; no draftstop is needed. Floor or roof above is framed for protection prior to the pads and subfloor. Additional pads at perimeter placed 8" o.c. provide edge support and eliminate possibility of flanking impact noise.

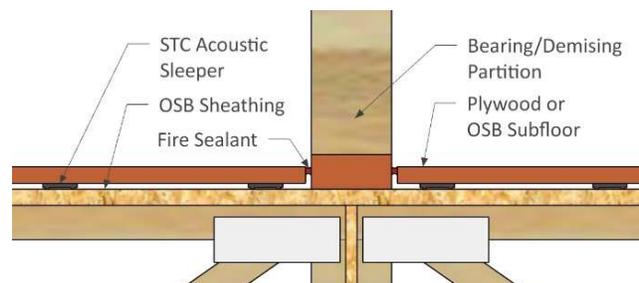


Figure 3: Full Isolation

April 28, 2018
Paul L. Battaglia, AIA, ASA, INCE