

CUT CALLBACKS WITH PROPER SPACING AND NAILING

Spacing Recommendations for APA Rated Sheathing, APA Rated Sturd-I-Floor, and APA Rated Siding

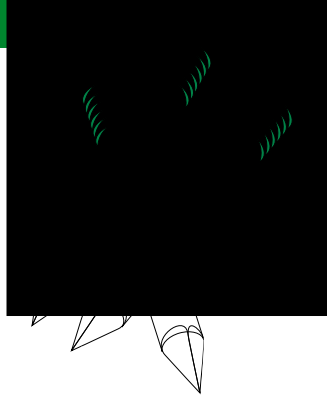
Wood structural panels (plywood and OSB), like all wood products, will expand or shrink slightly with changes in moisture content. If expansion is prevented by tightly butted panel joints, buckling can occur. And that can mean costly, time-consuming callbacks. To assure best performance, follow these panel spacing and nailing recommendations.

Spacing Hint:

A 10d box nail may be used to gauge 1/8-inch spacing between panels. Spacer-type panel edge clips may also be used for roof sheathing applications. See reverse side for nailing schedule.

For complete plywood and other wood structural panel application recommendations, see *Engineered Wood Construction Guide*, Form E30.

For design recommendations for buildings with continuous panel runs of 80 feet or more, see *APA Technical Note: Temporary Expansion Joints for Large Buildings*, Form U425.



NAILING RECOMMENDATIONS

Type of Panel	Recommended Nail Size & Type	Panel Edges ^(f)	Intermediate Supports
APA Rated Sturd-I-Floor – Glue-nailed installation			
STURD-I-FLOOR 16, 20, 24 oc, 3/4" thick or less	Ring- or screw-shank nails 6d ^(a)	12"	12"
STURD-I-FLOOR 24 oc, 7/8" or 1" thick	8d ^(a)	6"	12"
STURD-I-FLOOR 32, 48 oc, 32" spans	8d ^(a)	6"	12"
STURD-I-FLOOR 48 oc, 48" spans	8d ^(b)	6"	6"
APA Rated Sturd-I-Floor – Nailed-only installation			
STURD-I-FLOOR 16, 20, 24 oc, 3/4" thick or less	Ring- or screw-shank nails 6d	6"	12"
STURD-I-FLOOR 24, 32 oc, 7/8" or 1" thick	8d	6"	12"
STURD-I-FLOOR 48 oc, 32" spans	8d ^(b)	6"	12"
STURD-I-FLOOR 48 oc, 48" spans	8d ^(b)	6"	6"
APA Rated Sheathing – Subflooring			
7/16" to 1/2" thick	Common smooth, ring- or screw-shank ^(c) 6d	6"	12"
7/8" thick or less	8d	6"	12"
Thicker panels	10d	6"	6"
APA Rated Sheathing – Wall sheathing			
1/2" thick or less	Common smooth, ring- or screw-shank or galvanized box ^(c) 6d	6"	12"
Over 1/2" thick	8d	6"	12"
APA Rated Sheathing – Roof sheathing			
5/16" to 1" thick	Common smooth, ring- or screw-shank ^(c) 8d	6"	12" ^{(d)(e)}
Thicker panels	8d ring- or screw-shank or 10d common smooth	6"	12" ^{(d)(e)}
APA Rated Siding – Applied directly to studs or over nonstructural sheathing			
1/2" thick or less	Hot dipped galvanized box, siding or casing 6d	6"	12"
Over 1/2" thick	8d	6"	12"

(a) 8d common nails may be substituted if ring- or screw-shank nails are not available.

(b) 10d common nails may be substituted if supports are well seasoned.

(c) Other code-approved fasteners may be used.

(d) For spans 48" or greater, space nails 6" at all supports.

(e) Additional fasteners may be required in high wind regions. For further information, see APA Data File: *Roof Sheathing Fastening Schedules for Wind Uplift*, Form T325.

(f) Fasteners shall be located 3/8 inch from panel edges.

Note: Panel spacing is an APA **RECOMMENDATION**, but not a code requirement,^(a) to provide installers with a means of minimizing the potential for panel buckling. Panel buckling may be an aesthetic or serviceability issue but is not a structural deficiency. There is no reason to expect this recommended space to be maintained when the panel become acclimated. Gaps that were initially present may have closed due to normal moisture-related expansion. If the flatness of sheathing or flooring panels is acceptable, APA would generally recommend that any finish flooring, siding or roofing be installed as planned regardless of whether gaps are present.

^(a)Some manufacturers may require a space at the time of installation.

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