



CUT CALLBACKS WITH PROPER SPACING AND NAILING

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

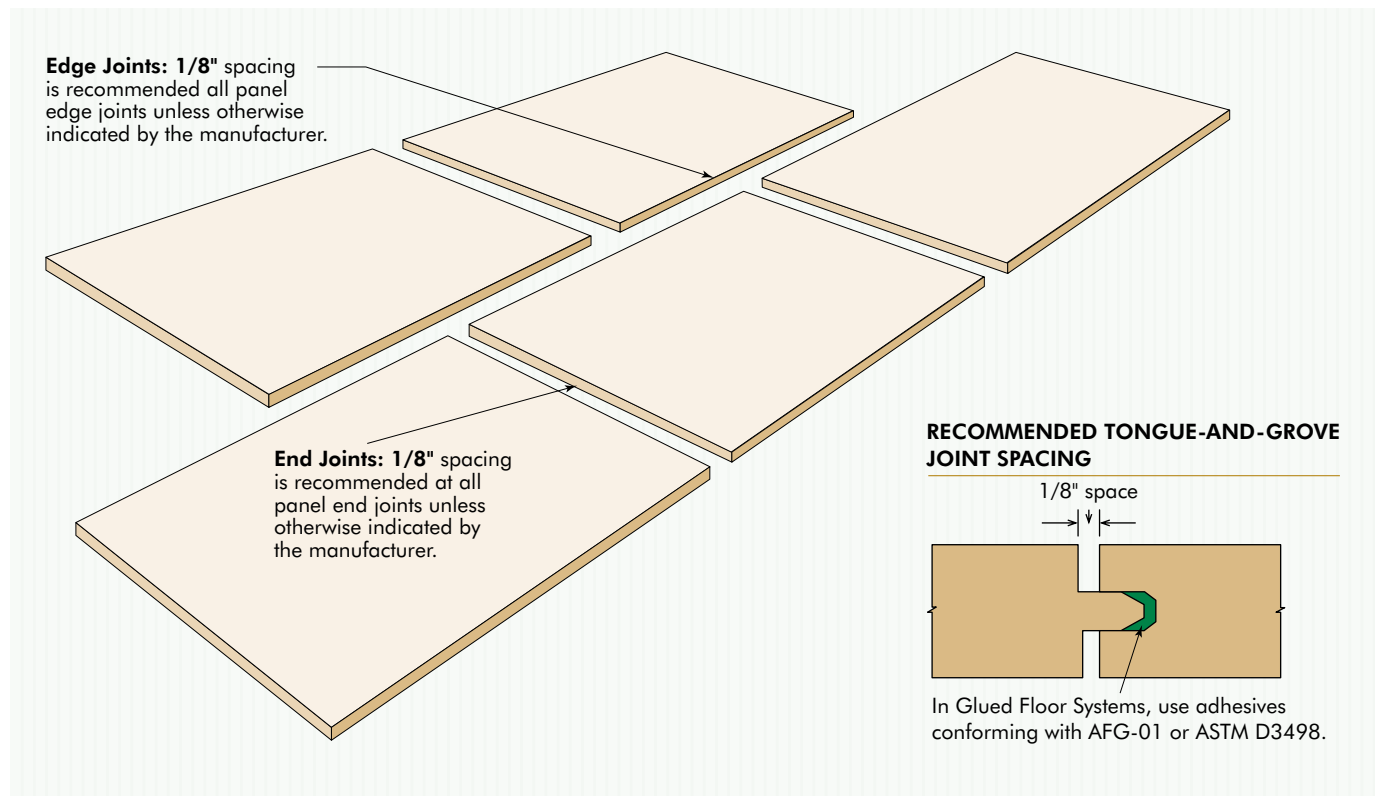
Wood structural panels (plywood and OSB), like all wood products, will expand or shrink slightly with changes in moisture content. If expansion is prevented by tightly butted panel joints, buckling can occur. And that can mean costly, time-consuming callbacks. To assure best performance, follow these 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	Ring- or screw-shank nails		
STURD-I-FLOOR 16, 20, 24 oc, 3/4" thick or less	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	Ring- or screw-shank nails		
STURD-I-FLOOR 16, 20, 24 oc, 3/4" thick or less	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	Common smooth, ring- or screw-shank ^(c)		
7/16" to 1/2" thick	6d	6"	12"
7/8" thick or less	8d	6"	12"
Thicker panels	10d	6"	6"
APA Rated Sheathing – Wall sheathing	Common smooth, ring- or screw-shank or galvanized box ^(c)		
1/2" thick or less	6d	6"	12"
Over 1/2" thick	8d	6"	12"
APA Rated Sheathing – Roof sheathing	Common smooth, ring- or screw-shank ^(c)		
5/16" to 1" thick	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	Hot dipped galvanized box, siding or casing		
1/2" thick or less	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.

We have field representatives in many major U.S. cities and in Canada who can help answer questions involving APA trademarked products. For additional assistance in specifying APA engineered wood products, contact us:

APA – THE ENGINEERED WOOD ASSOCIATION HEADQUARTERS

7011 So. 19th St. Tacoma, Washington 98466
(253) 565-6600 • Fax: (253) 565-7265

Web Address:

www.apawood.org

PRODUCT SUPPORT HELP DESK
(253) 620-7400 • E-mail Address: help@apawood.org

DISCLAIMER

The information contained herein is based on APA – The Engineered Wood Association's continuing programs of laboratory testing, product research, and comprehensive field experience. Neither APA, nor its members make any warranty, expressed or implied, or assume any legal liability or responsibility for the use, application of, and/or reference to opinions, findings, conclusions, or recommendations included in this publication. Consult your local jurisdiction or design professional to assure compliance with code, construction, and performance requirements. Because APA has no control over quality of workmanship or the conditions under which engineered wood products are used, it cannot accept responsibility for product performance or designs as actually constructed.

Form No. M300P/Revised June 2005/0010

