



Recommended Minimum Fastening Schedules for Wood Structural Panels

SHEATHING SPAN[®] (Roof, Wall and Subfloor Sheathing) ^{1,2}

Nominal Panel Thickness (inches)	Fastener Type and Size	Maximum Fastener Spacing (inches)	
		Supported panel edges	Intermediate supports
5/16, 11/32, 3/8, 7/16, 15/32, 1/2	6d common or deformed shank nails ³ 1-3/4" 16 gage staples ⁴	6 ⁵	12 ⁵
19/32, 5/8, 23/32, 3/4	8d common or 6d deformed shank nails 2" 16 gage staples ⁴	6 ⁶	12 ^{6,7}
7/8, 1	8d common or deformed shank nails	6	12 ⁷
1-1/8, 1-1/4	10d common or 8d deformed shank nails	6	12 ⁷

FLOOR SPAN® (Combination Subfloor-Underlayment) ^{1,2,8}

Span Rating (inches)	Nominal Panel Thickness ⁹ (inch)	Glued And Nailed ¹²			Nailed Only		
		Nail size and type	Maximum nail spacing (inches)		Nail size and type	Maximum nail spacing (inches)	
			Supported panel edges	Intermediate supports		Supported panel edges	Intermediate supports
16 oc	19/32, 5/8	6d deformed shank ¹⁰	12	12	6d deformed shank	6	12
20 oc	19/32, 5/8,						
24 oc	23/32, 3/4						
24 oc	7/8	8d deformed shank ¹⁰	6	(7)	8d deformed shank	6	(7)
32 oc	7/8, 1						
48 oc	1-1/8, 1-1/4	8d deformed shank ^{10, 11}		(7)	8d deformed shank ¹¹		(7)

1. Other code-approved fasteners may be used for specific applications.
2. Refer to the Building Code for fastening of diaphragms and shear walls.
3. 8d nails are the minimum required for roof sheathing applications.
4. Staples shall have a minimum crown width of 7/16 inch.
5. For staples, space 4 inches on center at edges, 8 inches on center at intermediate supports for subfloor and wall sheathing applications and 3 inches on center at edges, 6 inches on center at intermediate supports for roof sheathing applications.
6. For staples, space 4 inches on center at edges and 8 inches on center at intermediate supports.
7. Space nails at 6 inches on center at intermediate supports where spans are 48 inches or more.
8. Fastening guidelines assume application of standard uniform loads. For heavy traffic, concentrated loads, or other special conditions, construction in excess of minimums shown may be required.
9. Panels of a given thickness may be produced in multiple span ratings. Panels with a span rating greater than a given joist spacing may be substituted for panels of the same thickness whose span rating matches the joist spacing. For example, 19/32-inch-thick, 20 oc rated FLOOR SPAN may be used over joists spaced at 16 or 20 inches on center. 19/32-inch-thick, 16 oc FLOOR SPAN may be used over joists spaced at 16 inches on center.
10. If deformed shank nails are not available, common nails providing equal or greater withdrawal and lateral resistance may be substituted.
11. If supports are well seasoned, 10d common nails may be substituted to attach 1-1/8-inch-thick FLOOR SPAN panels.
12. Adhesives must be applied according to manufacturer recommendations and must conform to ASTM D3498 (or Specification AFG-01). Use solvent-based glues for OSB with sealed surfaces and edges—check with specific panel manufacturers.