

**TABLE R703.4
WEATHER-RESISTANT SIDING ATTACHMENT AND MINIMUM THICKNESS**

SIDING MATERIAL		NOMINAL THICKNESS ^a (inches)	JOINT TREATMENT	SHEATHING PAPER REQUIRED	TYPE OF SUPPORTS FOR THE SIDING MATERIAL AND FASTENERS ^{b,c,d}				Number or spacing of fasteners
					Wood or wood structural panel sheathing	Fiberboard sheathing into stud	Gypsum sheathing into stud	Direct to studs	
Horizontal aluminum ^e	Without insulation	0.019 ^f	Lap	No	0.120 nail 1 1/2" long	0.120 nail 2" long	0.120 nail 2" long	Not allowed	Same as stud spacing
		0.024	Lap	No	0.120 nail 1 1/2" long	0.120 nail 2" long	0.120 nail 2" long	Not allowed	
	With insulation	0.019	Lap	No	0.120 nail 1 1/2" long	0.120 nail 2 1/2" long	0.120 nail 2 1/2" long	0.120 nail 1 1/2" long	
Brick veneer Concrete masonry veneer		2 2	Section R703	Yes Note m	See Section R703 and Figure R703.7 ^h				
Hardboard ^l Panel siding-vertical		7/16	Note r	Note r	Note o	Note o	Note o	Note o	6" panel edges 12" inter. sup. ^p
Hardboard ^l Siding vertical Lap-siding-horizontal		7/16	Note g	Note g	Note q	Note q	Note q	Note q	Same as stud spacing 2 per bearing
		7/16	Note r	Note r					
Steel ⁱ		29 ga.	Lap	No	0.113 nail 1 3/4" Staple-1 3/4"	0.113 nail 2 3/4" Staple-2 1/2"	0.113 nail 2 1/2" Staple-2 1/4"	Not allowed	Same as stud spacing
Stone veneer		2	Section R703	Yes	See Section R703 and Figure R703.7				
Particleboard panels		3/8 - 1/2	Note g	Note g	6d box nail	6d box nail	6d box nail	6d box nail, 3/8 not allowed	6" panel edges 12" inter. sup.
		5/8	Note g	Note g	6d box nail	8d box nail	8d box nail	6d box nail	
Plywood panel ^l (exterior grade)		3/8	Note g	Note g	0.099 nail-2"	0.113 nail-2 1/2"	0.099 nail-2"	0.099 nail-2"	6" on edges
Vinyl Siding ⁿ		0.035	Lap	No	0.120 nail 1 1/2" Staple-1 3/4"	0.120 nail 2" Staple-2 1/2"	0.120 nail 2" Staple-2 1/2"	Not allowed	Same as stud spacing
Wood ^k Rustic, drop		3/8 Min	Lap	No	Fastener penetration into stud-1"			0.113 nail-2 1/2" Staple-2"	Face nailing up to 6" widths, 1 nail per bearing; 8" widths and over, 2 nails per bearing
Shiplap		19/32 Average	Lap	No					
Bevel		7/16							
Butt tip		3/16	Lap	No					

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EXTERIOR COVERING - R703.1 General

Exterior walls shall provide the building with a weather resistant exterior wall envelope. The exterior wall envelope shall be designed and constructed in such a manner as to prevent the accumulation of water within the wall assembly by providing a water resistive barrier behind the exterior veneer as required by Section R703.2.

WEATHER-RESISTIVE SHEATHING PAPER - R703.2

A minimum of one layer of number 15 asphalt felt complying with ASTM D 226 for Type 1 felt or other approved weather-resistive material shall be applied over sheathing of all exterior walls. See Table R703.4. Such felt or material shall be applied horizontally, with the upper layer lapped over the lower layer not less than 2 inches. Where joints occur, felt shall be lapped not less than 6 inches. Building paper or other approved material shall be continuous up to the underside of the rafter or truss top cord and terminated at penetrations and building appendages in such a manner to meet the requirements of the exterior wall envelope as described in Section R703.1.

EXCEPTION: Such felt or material is permitted to be omitted in the following situations:

1. In detached accessory buildings.
2. Where specifically prohibited by a sheathing and/or siding manufacturer.

Footnotes from IRC Table R703.4 (see back page) is amended to read as follows:

- a. Base on stud spacing of 16 inches on center where studs are spaced 24 inches, siding shall be applied to sheathing approved for that spacing.
- b. Nail is a general description and shall be T-head, modified round head, or round head with smooth or deformed shanks.
- c. Staples shall have a minimum crown width of 7/16 inch outside diameter and be manufactured of minimum Number 16 gage wire.
- d. Nails or staples shall be aluminum, galvanized, or rust-preventive coated and shall be driven into the studs or fiber board or gypsum backing.
- e. Aluminum nails shall be used to attach aluminum siding.
- f. Aluminum (0.019 inch) may not be backed only when the maximum panel width is 10 inches and the maximum flat area is 8 inches. The tolerance for aluminum siding shall be +0.002 inch of the nominal dimension.
- g. If board or panels are applied over sheathing or weather-resistant membrane, joints need not be treated. Otherwise, vertical joints shall occur at studs and be covered with battens or be lapped.
- h. All attachments shall be coated with a corrosive resistive coating.
- i. Shall be of approved type
- j. Three-eighths inch plywood shall not be applied directly to studs spaces greater

than 16 inches on center to studs spaced greater than 24 inches on center. The stud spacing shall not exceed the panel span rating provided by the manufacturer unless the panels are installed with the face grain perpendicular to studs or over sheathing approved for that stud spacing.

- k. Wood board sidings applied vertically shall be nailed to horizontal nailing strips or blocking set 24 inches on center. Nails shall penetrate 1.5 inches into studs and wood sheathing combined or blocking. A weather-resistant membrane shall be installed weatherboard fashion under the vertical siding unless the siding boards are lapped or battens are used.
- l. Hardboard siding shall comply with AHA A135.6.
- m. Vinyl siding shall comply with ASTM D3679.
- n. Minimum shank diameter of 0.092 inch, minimum head diameter of .225 inch, and nail length must accommodate sheathing and penetrate framing 1.5 inches.
- o. When used to resist shear forces, the spacing must be 4 inches at panel edges and 8 inches on interior supports.
- p. Minimum shank diameter of 0.099 inch, minimum head diameter of 0.240 inch, and nail length must accommodate sheathing and penetrate framing 1.5 inches.
- q. Vertical end joints shall occur at studs and shall be covered with a joint cover or shall be caulked.

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