

CHAPTER 7 EXTERIOR Wall COVERING

701 GENERAL

701.1 SCOPE

The provisions of this chapter shall govern the design, materials, construction and quality of exterior wall covering in high wind regions.

701.2 Application: The installation of exterior wall covering shall include the provisions of Chapter 7 – Wall Covering of the *International Residential Code* and or Chapter 14 – Exterior Walls of the *International Building Code* with the modifications provided in this Chapter 7 – Exterior Wall Covering.

701.3 Load Resistance: All exterior walls, wall coverings and soffits shall be capable of resisting the design pressures specified in Table R301.2(2) of the *International Residential Code* for walls.

701.4 Water-Resistant Barrier: One ~~lay~~ layer of No. 15 asphalt felt or other approved water-resistive barrier shall be applied over studs or sheathing of all exterior walls in accordance with Section R703.2 of the *International Residential Code*.

~~Exceptions: Omission of water-resistive barrier is only permitted in the following condition: Under paperbacked stucco lath when the paper backing is an approved weather-resistive sheathing paper.~~

702.4 WOOD SHAKES AND SHINGLES

Wood shakes and shingles, and attachment and supports shall be capable of resisting the wind pressures determined in accordance with Table R310.2(2) of the *International Residential Code*. Where wind pressures determined in accordance with Table R301.2(2) of the *International Residential Code* do not exceed 30 psf, each shake or shingle shall be held in place by two hot-dipped zinc-coated, stainless steel, or aluminum nails. The fasteners shall be long enough to penetrate the sheathing or furring strips by a minimum of 1/2 inch (12.7 mm) and shall not be overdriven. The underside of the head of the fastener shall contact, but not penetrate, the surface of the shingle or shake. Where pressures determined in accordance with Table R301.2(2) of the *International Residential Code* exceed 30 psf, the attachment shall be designed to resist the prescribed wind pressures. Staples shall not be used.

**TABLE 702.4
WEATHER-RESISTANT SIDING ATTACHMENT AND MINIMUM THICKNESS**

Siding Material		Nominal Thickness ^a (inches)	Joint Treatment	Water Resistive Barrier Required	Type of Supports for the Siding Material and Fasteners ^{b,c}					
					Wood or wood structural panel sheathing	Fiberboard sheathing into stud	Gypsum sheathing into stud	Foam plastic sheathing into stud	Direct to studs	Number or spacing of fasteners
Horizontal Aluminum ^d	Without insulation	0.019 ^e	Lap	Yes	0.120 nail 1 ½" long	Not allowed	Not allowed	Not allowed	Not allowed	Same as stud spacing
		0.024	Lap	Yes	0.120 nail 1 ½" long	Not allowed	Not allowed	Not allowed	Not allowed	
Vinyl Siding ^f	With insulation	0.019 0.035 (vinylSiding)	Lap	Yes	0.120 nail 1 ½" long	Not allowed	Not allowed	Not allowed	Not allowed	
Brick veneer ^w Concrete masonry veneer		2 2	Section R703	Yes (Note k)	See Section R703 and Figure R703.7 ^f					
Hardboard ⁱ Panel siding-vertical		See Section 702.2	—	Yes	See Section 702.4					
Hardboard ⁱ Lap-siding-horizontal		See Section 702.2	Note n	Yes	See Section 702.4					
Steel ^g		29 ga.	Lap	Yes	0.113 nail 1 3/4"	0.113 nail 2 3/4"	0.113 nail ^f 2 ½"	0.113 nail ^w	Not allowed	Same as stud spacing
Stone veneer		2	Section R703	Yes (Note k)	See Section R703 and Figure R703.7 ^g					
Plywood panel ⁱ I (exterior grade)		3/8	—	Yes	0.099 nail-2"	0.113 nail-2 ½"	0.099 nail-2"	0.113 nail ^w	0.099 nail-2"	6" on edges 12" inter. Sup.
Wood ⁱ Rustic, drop		3/8 Min	Lap	Yes	Fastener penetration into stud-1" 0.113 nail-2 ½" Face nailing up to 6" widths, 1 nail per bearing; 8" widths and over, 2 nails per bearing					
Shiplap		19/32 Average	Lap	Yes						
Bevel		7/16		Yes						
Butt tip		3/16	Lap	Yes						
Fiber cement panel siding ^p		5/16	Note p	Yes Note u	6d corrosion resistant nail ^f	6d corrosion resistant nail ^f	6d corrosion resistant nail ^f	6d corrosion resistant nail ^f	4d corrosion resistant nail ^p	6" oc on edges, 12" oc on intermed. studs
Fiber cement lap siding ^p		5/16	Note t	Yes Note v	6d corrosion resistant nail ^f	6d corrosion resistant nail ^f	6d corrosion resistant nail ^f	6d corrosion resistant nail ^f	6d corrosion resistant nail ^u	Note T

(No change to Table Notes)

704.4 Lintels. Lintel angles for support of brick veneer over openings shall be provided in accordance with Section R703.7.3 of the *International Residential Code*.

**TABLE 704
METAL TIES FOR BRICK VENEER**

Metal Tie Type	Maximum Gage or Minimum Thickness (Gage)	Maximum Spacing (in.)
Rectangular (Box)	0.148 inches (9)	18" o.c. vert. and 32" horiz.
Ladder or Truss	0.148 inches (9)	18" o.c. vert.
Adjustable Ladder	0.148 inches (9)	18" o.c. vert. and 32" horiz.
Corrugated	0.0299 inches (22)	18" o.c. vert. and 32" horiz.

Note: Corrugated metal ties shall be permitted on wood frame construction only

705 VINYL SIDING

~~Vinyl siding shall be tested or designed to comply with the wind load requirements of Section 1609 of the *International Building Code*.~~

Vinyl siding. Vinyl siding shall be certified and labeled as conforming to the requirements of ASTM D 3679 by an approved quality control agency. Vinyl siding shall be tested and verified for use in high wind areas as specified in Section 701.3 based on ASTM D 3679 Annex 1. Vinyl siding, soffit and accessories shall be installed in accordance with the manufacturer's installation instructions.