



City of Spring Lake Park
1301 81st Ave NE
Spring Lake Park, MN 55432
763-784-6491
Permits@slpmn.org

VINYL SIDING INFORMATION

All vinyl siding must conform and comply with the 2015 Minnesota Building Code (MBC) and the 2015 Minnesota Residential Code (MRC), Sections 1404.9 and R703.11. Sections 1404.9 and R703.11 states vinyl siding shall be certified and labeled as conforming to the requirements of ASTM D3679 by an approved quality control agency.

Section R703.1 states 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. of the 2015 MRC.

Section R703.2 **Weather-Resistive Sheathing Paper.** A minimum of one layer of number 15 asphalt felt complying with ASTM D226 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.

Exceptions: 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.

The exterior wall envelope shall include **flashing** as described in Section R703.1 of the 2015 MRC. Approved corrosion resistant flashing shall be applied shingle-fashion in such a manner as to prevent entry of water into the wall cavity or penetration of water to the building structural framing components. Flashing shall extend to the surface of the exterior wall finish. Approved corrosion-resistant flashing shall be installed at all of the following locations:

1. Exterior window and door openings and similar penetrations in accordance with approved methods.
2. At intersections of the chimney or other masonry construction with frame or stucco walls over projection lips or stucco copings.
3. Under and at ends of masonry, wood or metal copings and sills.
4. Continuously above all projecting trim.
5. Where exterior porches, decks, stairs or landings attach to a wall or floor assembly of wood frame const.
6. At wall and roof intersections.
7. At built-in gutters.
8. Where exterior material meets in other than a vertical line.
9. Where the lower portion of sloped roof stops within the plane of intersecting wall cladding in such a manner as to divert water away from assembly in compliance with Section R903.2.1.
10. At the intersection of the foundation and rim joist framing when the exterior wall covering does not lap the foundation insulation.
11. At gable ends where the J-channel trim projects past the fascia board.
12. Code does not require kick-out flashing when only re-siding existing buildings, but it is recommended if feasibly possible to install as to prevent water intrusion to the building envelope.

Caulking and Sealing all exterior penetrations per manufacturer's specifications of exterior finish material.

Nails and fasteners must be used and spaced according to the manufacturer's specifications and Table R703.4.

Table R703.4. WEATHER-RESISTANT SIDING ATTACHMENT & 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, d}						Number or spacing of fasteners
					Wood or wood structural panel sheathing into stud	Fiberboard sheathing into stud	Gypsum sheathing into stud	Foam plastic sheathing into stud	Direct to studs		
Horizontal aluminum ^e	Without insulation	0.019 ^f 0.024	Lap	Yes	0.120 nail 1 1/2" long	0.120 nail 2" long	0.120 nail 2" long	0.120 nail ^g	Not allowed	Same as stud spacing	
			Lap	Yes	0.120 nail 1 1/2" long	0.120 nail 2" long	0.120 nail 2" long	0.120 nail ^g	Not allowed		
	With insulation	0.019	Lap	Yes	0.120 nail 1 1/2" long	0.120 nail 2 1/2" long	0.120 nail 2 1/2" long	0.120 nail ^g	0.120 nail 1 1/2" long		
Anchored veneer: brick, concrete, masonry or stone		2	Section R703	Yes	See Section R703 and Figure R703.7 ^h						
Adhered veneer: concrete, stone or masonry ^m		—	Section R703	Yes Note w	See Section R703.6.1 ^h or in accordance with the manufacturer's instructions.						
Hardboard ^k Panel siding-vertical		7/16	—	Yes	Note m	Note m	Note m	Note m	Note m	6" panel edges 12" inter. sup. ⁿ	
Hardboard ^k Lap siding-horizontal		7/16	Note p	Yes	Note o	Note o	Note o	Note o	Note o	Same as stud spacing 2 per bearing	
Steel ^h		29 ga.	Lap	Yes	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"	0.113 nail ^v Staple ^v	Not allowed	Same as stud spacing	
Particleboard panels		3/8 - 1/2	—	Yes	6d box nail (2" x 0.099")	6d box nail (2" x 0.099")	6d box nail (2" x 0.099")	box nail ^v	6d box nail (2" x 0.099"), 3/8 not allowed	6" panel edge, 12" inter. sup.	
		5/8	—	Yes	6d box nail (2" x 0.099")	6d box nail (2 1/2" x 0.113")	6d box nail (2 1/2" x 0.113")	box nail ^v	6d box nail (2" x 0.099")		
Wood structural panel ^l ANSI/APA-PRP 210 siding ⁱ (exterior grade)		3/8 - 1/2	Note p	Yes	0.099 nail-2"	0.113 nail-2 1/2"	0.113 nail-2 1/2"	0.113 nail ^v	0.099 nail-2"	6" panel edges, 12" inter. sup.	
Wood structural panel lap siding		3/8 - 1/2	Note p Note x	Yes	0.099 nail-2"	0.113 nail-2 1/2"	0.113 nail-2 1/2"	0.113 nail ^k	0.099 nail-2"	8" along bottom edge	
Vinyl siding ^j		0.035	Lap	Yes	0.120 nail (shank) with a 0.313 head or 16-gage staple with 3/8 to 1/2-inch crown ^z	0.120 nail (shank) with a 0.313 head or 16-gage staple with 3/8 to 1/2-inch crown ^z	0.120 nail (shank) with a 0.313 head or 16-gage staple with 3/8 to 1/2-inch crown ^z	0.120 nail (shank) with a 0.313 head per Section R703.11.2	Not allowed	16 inches on center or specified by the manufacturer instructions or test report	
Wood ^d rustic, drop	3/8 Min	Lap	Yes	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	Yes	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	
Bevel	7/16										
Bust tip	3/16	Lap	Yes								
Fiber cement panel siding ^q	5/16	Note q	Yes Note u	6d common corrosion-resistant nail ^r	6d common corrosion-resistant nail ^r	6d common corrosion-resistant nail ^r	6d common corrosion-resistant nail ^r	4d common corrosion-resistant nail ^r		6" o.c. on edges, 12" o.c. on intermed. studs	

Footnotes from Minnesota Residential Code Weather-Resistant Siding Attachment & Minimum Thickness, Table R703.4:

- Base on stud spacing of 16 inches on center where studs are 24 inches, siding shall be applied to sheathing approved for that spacing.
- Nail is a general description and shall be T-head, modified round head, or round head with smooth or deformed shanks.
- Staples shall have a minimum crown width of 7/16 inch outside diameter and be manufactured of minimum Number 16 gage wire.
- Nails or staples shall be aluminum, galvanized, or rust-preventive coated and shall be driven into studs or fiberboard or gypsum backing.
- Aluminum nails shall be used to attach aluminum siding.
- 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.
- If board or panels are applied over sheathing or weather-resistant membrane, joints need not be treated. Otherwise, vertical joints shall occur to studs and be covered with battens or be lapped.
- All attachments shall be coated with a corrosive resistive coating.
- Shall be of approved type.
- 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 install with the face grain perpendicular to studs spacing.
- 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.
- Hardboard siding shall comply with AHA A135.6.
- Vinyl siding shall comply with ASTM D3679.
- When used to resist shear forces, the spacing must be 4 inches at panels edges and 8 inches on interior supports.
- Minimum shank diameter of 0.092 inch, minimum head diameter of 0.240 inch, and nail length must accommodate sheathing and penetrate framing 1.5 inches.
- Vertical end joints shall occur at studs and shall be covered with a joint cover or shall be caulked.



BUILDING PERMIT APPLICATION

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JOB ADDRESS: _____

OWNERS INFORMATION:

Name: _____
Address: _____
Email: _____ Phone: _____

TYPE OF PROPERTY:

☐ Commercial
☐ Multi-Family
☐ Residential
☐ Mobile Home

CONTRACTORS INFORMATION:

Please Note: Contractors must be licensed with the City of Spring Lake Park

Name: _____
Address: _____
Email: _____ Phone: _____
State License #: _____ Expiration Date: _____

APPLICANT:

Same as ☐ Property Owner ☐ Contractor ☐ Other (Explain): _____

DESCRIPTION OF WORK TO BE COMPLETED:

Value of work including labor: _____ Start Date: _____ Estimated Completion Date: _____

REQUIREMENTS:

Commercial/Industrial: Submit electronic plans and specifications for work.

If the application is **NOT** fully completed, it will be denied at time of processing. Please verify that all necessary information is legible and plans are included with job cost estimates.

Separate permits are required for electrical, plumbing, heating, ventilating, and air conditioning. This permit becomes null and void if work or construction authorized is not commenced within 180 days or work is suspended or abandoned for a period of 180 days at any time after work is commenced.

I hereby certify that I have read and examined this application and know the same to be true and correct. All provisions of laws and ordinances governing this type of work will be complied with whether specified herein or not. The granting of a permit does not presume to give authority to violate or cancel the provisions of any other State or local law regulating construction or the performance of construction. Initial here _____

➡ **Contractor Signature:** _____ **Date:** _____

➡ **Homeowner doing work Signature:** _____ **Date:** _____

Payment: We accept cash, checks & credit cards (with additional processing fees).