



HOME of MAGNUM® BOARD

“The New Generation Building Material”

TECHNICAL BULLETIN No.:	112809-1203
Subject:	Installation Guidelines for Magnum® Lap Siding
Issue Date:	November 14, 2013
Issue No.:	6

1.0 PURPOSE

1.1 To define the guidelines for installing Magnum® Lap Siding.

2.0 BEFORE YOU BEGIN

- 2.1 Always install Magnum® Lap Siding over a flat, vertical wall surface. Irregularities in framing, sheathing, foam insulation, block (whatever the substrate may be) can mirror through the finished application resulting in unevenness in wall thus distorting the siding and giving the wall an unsightly wavy appearance.
- 2.2 Prime, paint or caulk all field cut edges of siding.
- 2.3 Magnum® lap siding can be installed
- 2.3.1 Over braced composite, wood or steel studs spaced a maximum of 24" on center,
 - 2.3.2 Directly to minimum 7/16" OSB or plywood or other approved sheathing,
 - 2.3.3 Over foam insulation up to 1" thick,
 - 2.3.4 Directly to minimum 10MM (7/16" nominal) Magnum® Sheathing, or
 - 2.3.5 Directly to block.
- 2.4 Follow local, state and federal codes regarding the use of weather-resistive barriers and clearance between the bottom edge of the Magnum® Lap Siding and the adjacent finished grade.

2.4.1 Always install weather-barrier in strict accordance with manufacturer's installation procedures. NOTE: Magnum Building Products® assumes no responsibility for water infiltration.

2.5 Although Magnum® Lap Siding is impervious to water and insects, it is always good construction practice to install Magnum® Lap Siding such that it will not be in continuous contact with water and / or on grade.

3.0 MATERIAL REQUIREMENTS

3.1 Use the Magnum Building Products® Coverage Chart / Estimating Guide, section 7.0 to help determine the quantity of Magnum® Lap Siding you will need for the project.

3.2 Its good construction practice to marshal or stage the materials close to the point of installation.

3.3 Lay Magnum® Lap Siding flat on a solid surface and protect it from weather and dirt prior to and during installation.

3.4 Always protect the corners of Magnum® Lap Siding prior to and during installation.

3.5 Do not stack other materials on top of Magnum® Lap Siding.

4.0 PROCEDURE

4.1 Refer to Figure "A"

4.1.1 Install a 1 ¼" starter strip at the bottom of the structure to ensure a consistent plant angle throughout installation.

4.1.2 Always place ends of Magnum® Lap Siding over a stud.

4.1.3 Stagger butt joints at least 2 stud bays apart for sixteen-(16) inch on center framing.

4.1.4 As pictured, use a framing square and a torpedo level to transfer the course elevations at corners.

4.1.5 If trim is already installed, place caulk on the edge of the Magnum® Lap Siding and butt against the trim.

- 4.1.6 If trim is not installed, place edge of Magnum® Lap Siding at the edge of the structure.
- 4.1.7 Apply caulk at the base of the Magnum® Lap Siding and the stud or substrate prior to butting the next piece of siding in place.
- 4.1.8 Install factory finished edges together at butt joints.

TIP: For accurate fastening, snap vertical chalk lines on the water-resistive barrier at the center of every stud location.

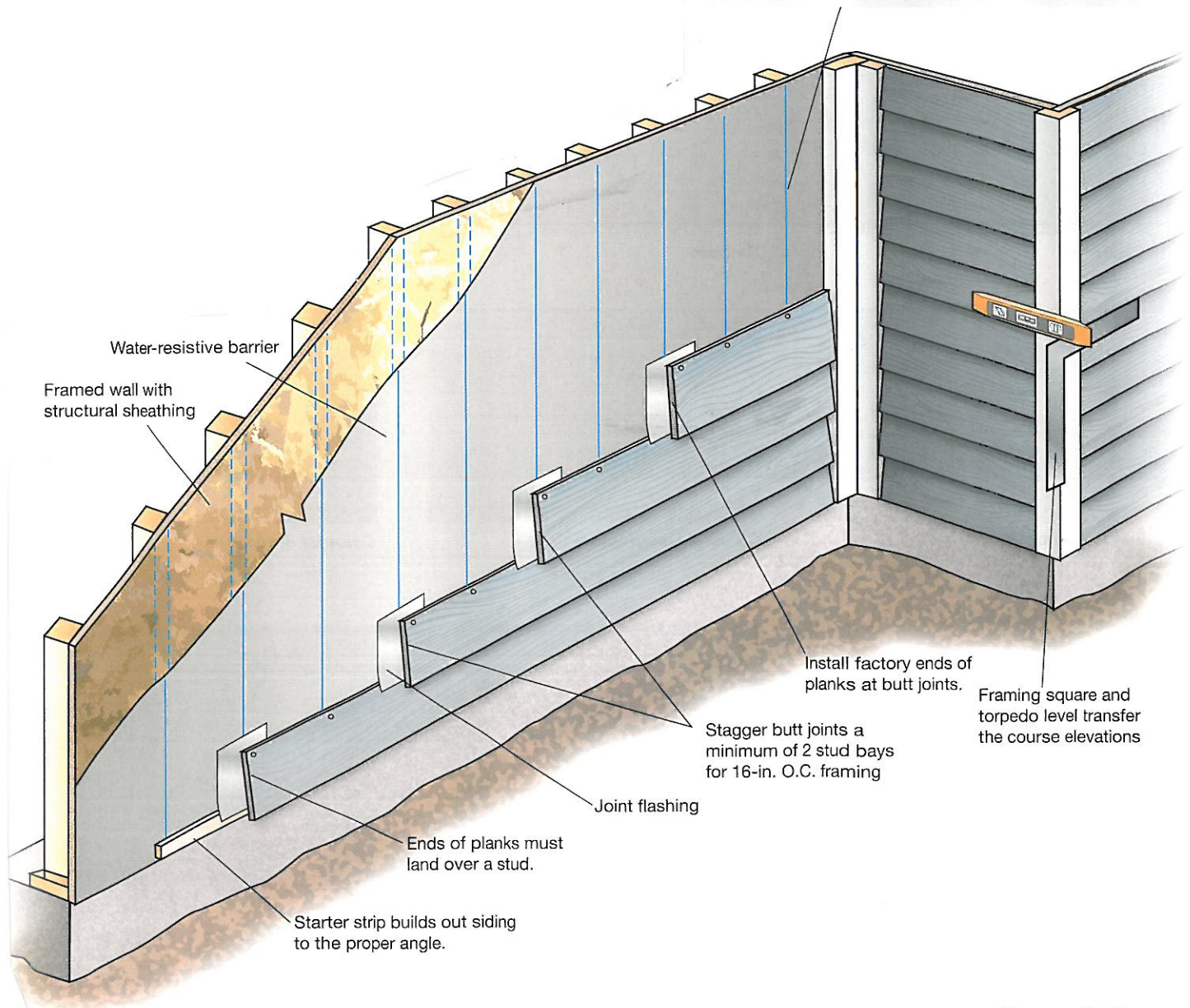


Figure "A"

4.1.9 Always end Magnum® Lap Siding courses approximately 1/8" from vertical trim and fill the gap with permanently flexible caulk. Reference figure "B".

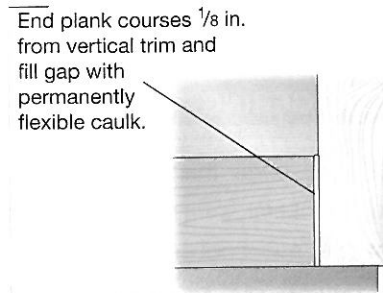


Figure "B"

4.1.10 Butt Magnum® Lap Siding with moderate edge contact. Reference figure "C".

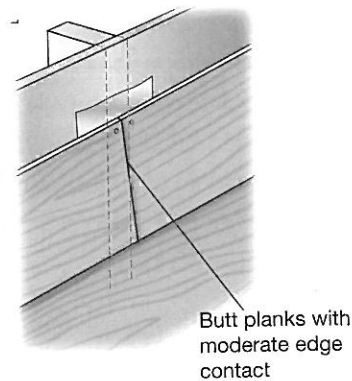


Figure "C"

4.2 Magnum® Lap Siding Alignment – Reference figure “D”.

4.2.1 To help ensure proper alignment, use a four-(4) feet or longer level to check the first course and periodically check subsequent courses thereafter.

4.2.2 When the first piece of Magnum® Lap Siding is in its proper location, snap a chalk line to guide the balance of the first course.

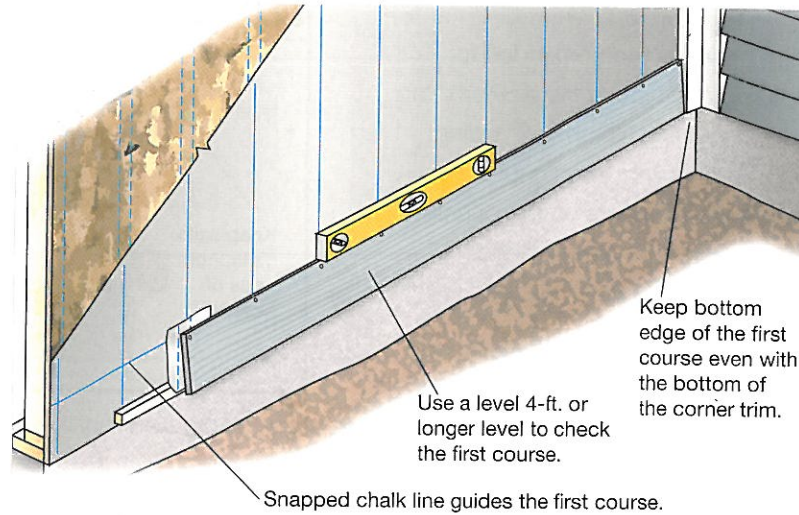


Figure “D”

4.3 Flashing behind the joints of Magnum® Lap Siding provides additional protection from water infiltration. Reference figure “E”.

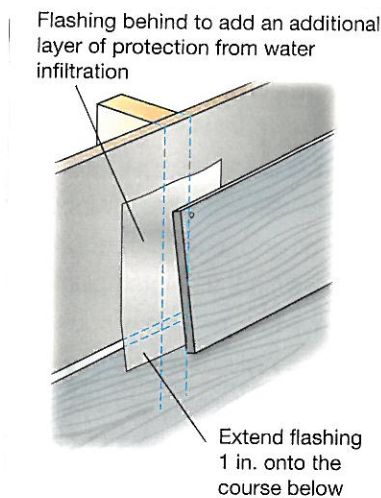


Figure “E”

4.4 Fastening

4.4.1 Magnum® Lap Siding can be screwed or pneumatically nailed.

4.5 Blind Fastening – Refer to figure “F”

4.5.1 Always use corrosion resistant fasteners, preferably stainless steel.

4.5.2 Screws: Ribbed wafer-head or equivalent (No. 8-18 X 0.323” HD X 1 5/8” long).

4.5.3 Pneumatic nails: 0.100” shank X 0.25” HD X 1 ½” long.

4.5.4 Direct to block: Pneumatic nails, ASM-144-125 (P/C)

4.5.5 Ensure the panel overlaps approximately 1 ¼”, leaving a gap of 1/8” from all trim before fastening. Always caulk between the siding and the trim.

4.5.6 Place the fastener 1” to 1 1/8” from the top of the panel and no closer than 3/8” from the edge.

4.5.7 Pneumatic nails must penetrate a minimum of 1 ¼” into the structural framing; screws require a minimum ¾” penetration. Penetration may include thickness of structural rated sheathing (OSB or plywood). Some screws may require more than ¾” penetration to resist lateral loads – refer to the screw manufacturer for requirements.

4.5.8 Do not over drive the fasteners. Seating them below the surface of the siding reduces their holding power and creates an entryway for moisture. Do not place fasteners in the center, unsupported area of the siding.

4.5.9 If you are using screws, it may be necessary to predrill to help prevent the corners from breaking.

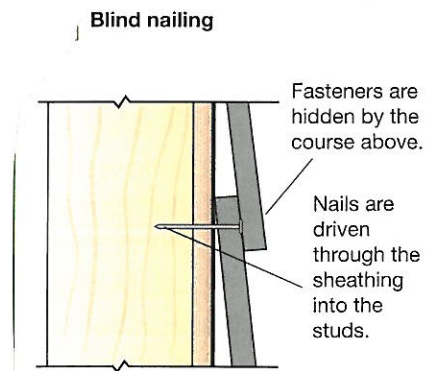


Figure “F”

- 4.6 Face Fastening - Refer to figure "G".
- 4.6.1 Always use corrosion resistant fasteners, preferably stainless steel.
 - 4.6.2 Screws: Ribbed wafer-head or equivalent (No. 8-18 X 0.323" HD X 1 5/8" long).
 - 4.6.3 Pneumatic nails: 0.100" shank X 0.25" HD X 1 1/2" long.
 - 4.6.4 Direct to block: Pneumatic nails, ASM-144-125 (P/C)
 - 4.6.5 Ensure the panel overlaps approximately 1 1/4", leaving a gap of 1/8" from all trim before fastening. Always caulk between the siding and the trim.
 - 4.6.6 Place the fastener 3/4" from the bottom of the overlapping panel. This will help ensure the fastener penetrates both courses of siding. Place the fasteners no closer than 3/8" from the butt edge.
 - 4.6.7 Pneumatic nails must penetrate a minimum of 1 1/4" into the structural framing; screws require 3/4" penetration. Penetration may include thickness of structural rated sheathing (OSB or plywood).
 - 4.6.8 Do not over drive the fasteners. Seating fasteners below the surface of the siding reduces their holding power and creates an entryway for moisture. Do not place fasteners in the center, unsupported area of the siding.
 - 4.6.9 If you are using screws, it may be necessary to predrill to help prevent the corners from breaking.

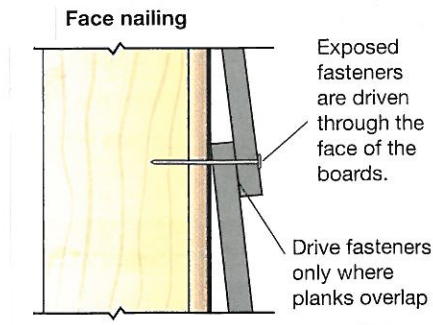


Figure "G"

4.7 Always follow Local, State and Federal Building Codes for fastener penetrations in your area.

5.0 DEFINITIONS

- 5.1 Blind Fastening: Application where placing a fastener through the top edge of lap siding that will be covered by the next course of lap siding.
- 5.2 Butt Joint: Any joint made by fastening two parts together side by side or end to end without overlapping.
- 5.3 Course: A row of planks, one plank wide running the length of the house.
- 5.4 Face Fastening: Application where a fastener will be placed through the overlap of a plank. The fastener will be visible.
- 5.5 Grade: The height of the ground on which something stands.
- 5.6 Lap: To overlap a course of siding with another course of siding.
- 5.7 Pneumatic Fastening: Act of fastening using air operated nail guns.

6.0 REFERENCES

- 6.1 Technical Bulletin No. 070109-1359: Installation Hardware
- 6.2 Sherwin Williams, or equivalent, Material Preparation and Paint Procedures
- 6.2.1 108.21
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6.3 Magnum Board® Products MSDS

8.0 MAGNUM® LAP SIDING COVERAGE CHART / ESTIMATING GUIDE

Square Footage	7 ½"	8 ½"
100	17	14
200	33	29
300	50	43
400	67	57
500	83	71
600	100	86
700	117	100
800	133	114
900	150	129
1,000	167	143
1,100	183	157
1,200	200	171
1,300	217	186
1,400	233	200
1,500	250	214
1,600	267	229
1,700	283	243
1,800	300	257
1,900	317	271
2,000	333	286
2,100	350	300
2,200	367	314
2,300	383	329

2,400	400	343
2,500	417	357
2,600	433	371
2,700	450	386
2,800	467	400
2,900	483	414
3,000	500	429

NOTE: THIS COVERAGE CHART IS MEANT AS A GUIDE ONLY. ACTUAL USAGE IS SUBJECT TO VARIABLES SUCH AS BUILDING DESIGN. MAGNUM® BUILDING PRODUCTS DOES NOT ASSUME RESPONSIBILOITY FOR OVER OR UNDER ORDERING OF PRODUCT.