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MAXITILE[®]
Fiber Cement Siding & Roofing



MAXIPLANK[™] INSTALLATION GUIDE

MAXIPLANK™

LAP SIDING INSTALLATION GUIDE

Read all instructions prior to installing any siding product. Failure to install and finish this product in accordance with all local building codes, regulations and MAXITILE written application may lead to personal injury, affect system performance, violate local building codes, and void the product warranty.

We suggest that you read these instructions at least twice.

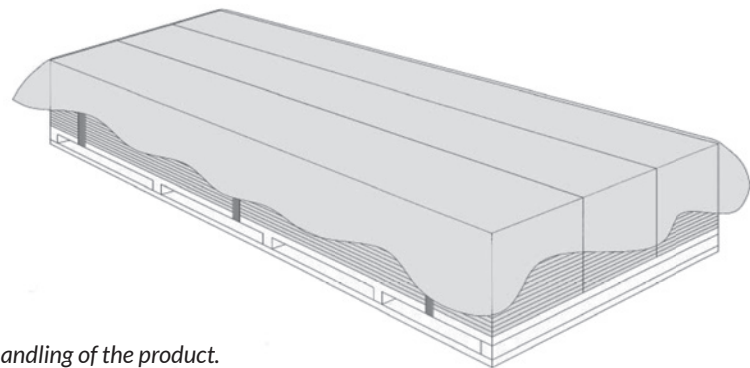
MAXIPLANK is available in 5-1/4", 6-1/4", 7-1/4", 8-1/4", 9-1/4", and 12" in Cedar Textured and Smooth Textured.

MAXIPLANK is also available in 8-1/4" Colonial (Channel Rustic).

MAXIPLANK Fiber Cement Siding is made with cement and other special ingredients, which make it non-combustible and resistant to termites, hail and rot.

STORAGE AND HANDLING:

- Protect from the weather.
- Use the bundle cover that is provided in the pallet to keep the product dry.
- MAXIPLANK is produced with a factory-applied primer. This primer does not provide adequate resistance to moisture in the event the product is allowed to become saturated during storage. If MAXIPLANK becomes wet or saturated, allow product to dry before installation.
- Store product dry and flat prior to installation.
- Installing wet or saturated MAXIPLANK may cause shrinkage at butt joints, which could produce breakage at corners.
- Protect edges and corners from chipping or breakage.
- Carry planks on edge.



MAXITILE is not responsible for damage caused by improper storage and/or handling of the product.

IMPORTANT: To prevent damage to the drip edge, extra care should be taken when removing planks from the pallet, while handling, and when installing with a lap gauge.

Please see additional handling requirements:

- Planks are interlocked together on the pallet; therefore, they should be removed from the pallet horizontally (side to side) to allow planks to unlock themselves from one another.
- Pull MAXIPLANK from across the stack. Do not pull planks from the same vertical stack.

FRAMING:

Follow Local Building Codes for proper framing and flashing requirements.

- MAXIPLANK can be installed over structural wood framing or steel studs, spaced at 16" on center or at a maximum of 24" on center. When installing MAXIPLANK, the fasteners must penetrate the framing studs at least 1 inch.
- If the wall is sheathed with a minimum 7/16" OSB or plywood sheathing, the fastener lengths must be adjusted to ensure the fasteners will go through the MAXIPLANK product, sheathing, and then penetrate the framing studs at least 1 inch.
- Irregularities in framing and sheathing can telegraph through the finished application.
- Concealed nailing is not allowed at 24" on center, or when installing 12" wide MAXIPLANK Siding at 16" on center.
- A weather resistant barrier between the framing and the siding is required and must be installed in accordance with Local Building Code requirements.
- MAXIPLANK may only be used as fascia when installed over a solid wood sub-fascia.
- Do not install MAXIPLANK products in any manner that allows contact with standing or running water.
- MAXIPLANK lap siding may be installed horizontally on flat vertical wall applications only

MAXITILE will not assume any responsibility for water infiltration within the wall or wall cavity.

CUTTING:

If power-sawing, use carbide- or diamond-tipped blade. Contain any dust produced from cutting the product to protect yourself and others.

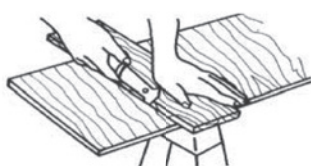
- Only use power cutting tools in well ventilated areas.
- Use NIOSH-approved respirators and goggles for protection when power-sawing.
- For score-and-snap cutting, use a carbide-tipped scoring tool:
Using a straight edge as a guide, carefully draw the scoring tool up and down several times. Bend upwards and break.
- Specialized fiber cement cutting tools, shears, and guillotines may also be used.
- Round openings can be made by using a holesaw or by drilling several holes around the circumference of the desired opening and tapping out the center.
- NEVER use a power saw indoors.
- NEVER dry sweep any dust or debris. Use wet cleaning methods or HEPA vacuums.



Scoring Tool



To scratch



Score-and-Snap



Round Openings



WARNING: AVOID BREATHING SILICA DUST.

MAXITILE siding products contain respirable crystalline silica, which is known to the State of California to cause cancer and is considered by IARC and NIOSH to be a cause from some occupational sources. Breathing excessive amounts of respirable silica dust can also cause a disabling and potentially fatal lung disease called silicosis, and has been linked with other diseases. Some studies suggest smoking may increase these risks. During installation or handling: (1) work in outdoor areas with ample ventilation; (2) use fiber cement shears for cutting or, where not feasible, use a dust-reducing circular saw attached to a HEPA vacuum; (3) warn others in the immediate area; (4) wear a properly fitted, NIOSH-approved dust mask or respirator (e.g. N-95) in accordance with applicable government regulations and manufacturer instructions to further limit respirable silica exposures. During clean-up, use HEPA vacuums or wet methods, never dry sweep. For further information, refer to our installation guides and Material Safety Data Sheet available at www.maxitile.com or by calling (800) 451-2003. FAILURE TO ADHERE TO OUR WARNINGS, MSDS, AND INSTALLATION GUIDES MAY CAUSE SERIOUS PERSONAL INJURY OR DEATH.

FASTENERS:

Fasteners must be corrosion-resistant, preferably hot dipped galvanized, nails. MAXITILE is not responsible for corrosion resistance of fasteners. Stainless steel fasteners are recommended when installing MAXITILE products near the ocean.

- Drive fasteners perpendicular to siding and framing.
- Do not over-drive nail heads or drive nails at an angle.
- If nail is overdriven and/or breaks the surface of the product, caulk the nail hole and install another nail so that it is flush with the surface.
- Do not use aluminum fasteners, staples, or clipped head nails.
- If nail penetrates sheathing only, the warranty may be voided.
- Nails must always hit framing studs, penetrating a minimum of 1 inch into solid wood.
- When hand-nailing, pre-drill the holes at the corners to avoid accidental breakage.
- Nails can be applied using a pneumatic nail gun with a flush attachment or a smooth head hammer.
- MAXIPLANK lap siding can be installed over up to a 1" thick foam insulation/sheathing. Take extra precaution (especially if using a pneumatic nail gun) to not over-drive the fasteners, or it could compress the foam and cause dimples in the siding.
- For special fastening applications, please email technical.support@maxitile.com.



Pneumatic Nail Gun

Concealed Fastening:

Wood Framing Fasteners

- Siding Nail (.09" shank x 0.221" HD x 2" long)
- 11 ga. roofing nail (0.121" shank x .371" HD x 1.75" long)

Steel Framing Fasteners

- Screws: Ribbed wafer-head or equivalent (No. 8 x 0.375 HD x 1.5" long)
- Screws must penetrate at least 3 threads

Exposed Fastening:

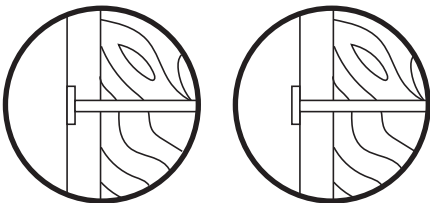
Wood Framing Fasteners

- Siding Nail (.09" shank x 0.221" HD x 2" long)
- 6d (0.113" shank x 0.267" HD x 2" long)

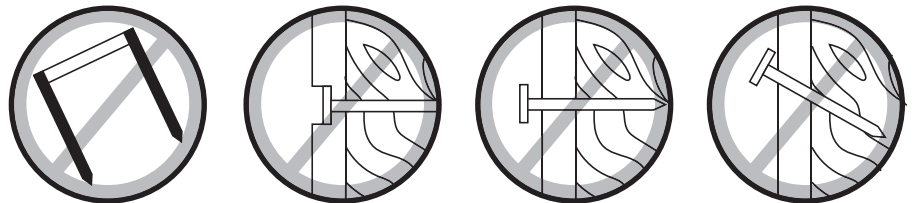
Steel Framing Fasteners

- Screws: Ribbed wafer-head or equivalent (No. 8 x 0.375 HD x 1.5" long)
- Screws must penetrate at least 3 threads

Correct



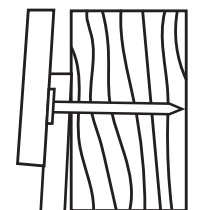
Incorrect



NOTE: Published wind loads may not be applicable to all areas where Local Building Codes have specific jurisdiction. Consult MAXITILE Technical Assistance if you are unsure of applicable compliance documentation.

CONCEALED FASTENING:

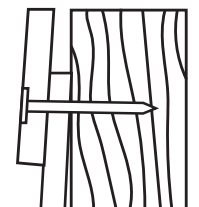
- Fasteners must be installed a minimum of 1-inch from the top of every piece of MAXIPLANK, and must penetrate a minimum of 1 inch into solid wood.
- It is important to keep nails level and flush for proper siding installation.
- Firmly hold the siding against the wall while nailing, especially at the butt joints.



Concealed Fastening

EXPOSED FASTENING:

- Fasteners must be installed between 3/4-inch and 1 inch from the bottom edge of every piece of MAXIPLANK, and must penetrate a minimum of 1 inch into solid wood.
- It is important to keep nails level and flush for proper siding installation.
- Firmly hold the siding against the wall while nailing, especially at the butt joints.



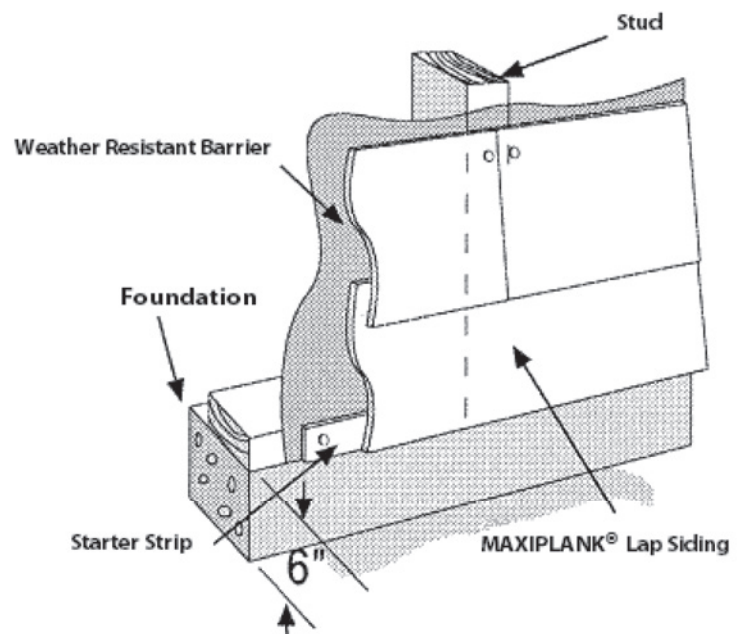
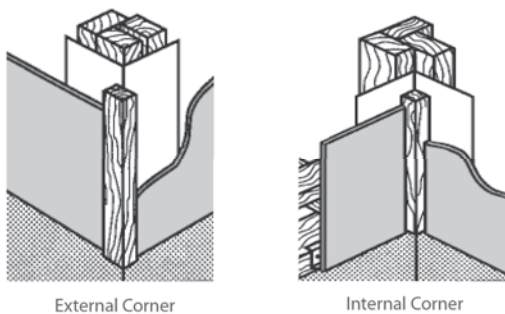
Exposed Fastening

KICKOUT FLASHING:

- Because of the volume of water that can pour down a sloped roof, one of the most critical flashing details occurs where a roof intersects a sidewall.
- The roof line must be flashed with step flashing.
- Where the roof terminates, install kickout flashing to deflect water away from the siding.
- Follow Local Building Codes for kick out flashing and other flashing requirements.

INSTALLATION:

- Fasten fiber cement, metal, or rot resistant trim at all interior and exterior corners.
- Install a rot resistant starter strip that is 1 ½ inches wide x 1/4 inch thick to the sill plate prior to installing the first course.
- Locate and mark stud locations to be sure that all nails will hit studs and penetrate at least 1 inch.
- Starting at a corner and leaving 1/8" gap from the trim, install the first course level to the base of the starter strip. But the next MAXIPLANK with moderate contact to the preceding piece.
- At the end of the course, score-snap or cut the MAXIPLANK to fit. Leave an 1/8" gap at all trim, and/or windows and doors.
- Caulking at butt joints is not recommended. If caulking, make sure to apply caulking per the manufacturers recommended installation instructions.
- Joint-flashing at the butt joints is recommended instead of caulking.
- To begin the next course, use a lap gauge tool, a chalk line, or a self aligning clip to set the overlap at 1 ¼", which is the minimum allowed.
- Vertical joints must be staggered a minimum of 16" from adjacent courses.
- All MAXIPLANK must span over a minimum of two studs except when using the "off-stud joiner."
- All exposed field cut edges (such as butt joints, outside edges or where joint flashing is used) should be covered with primer, sealant or paint.
- ALL BUTT JOINTS MUST BE CENTERED OVER A STUD UNLESS USING OFF-STUD JOINERS.



CLEARANCES:

- A 6" minimum clearance above finished grade is required.
- Maintain a 1" - 2" clearance between MAXITILE products and paths, steps and driveways.
- Maintain a 1" - 2" clearance between MAXITILE products and decking material.
- At the juncture of the roof and vertical surfaces, flashing and counterflashing shall be installed per the roofing manufacturer's instructions. Provide a 1" - 2" clearance between the roofing and the bottom edge of the siding and trim.
- Maintain a ¼" clearance between the bottom of MAXITILE products and horizontal flashing.
- Maintain a minimum 1" gap between gutter end caps and siding and trim.

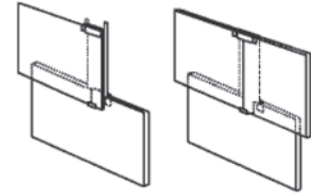
OFF-STUD BUTT JOINT INSTALLATION:

- The off-stud joiner is placed halfway onto the end of the plank with the flashing portion of the joiner touching the back of the siding. The lower tabs are then positioned over the previous course. The adjoining piece must have moderate contact at the butt joint.
- MAXIPLANK must be fastened to all studs.
- Use of the off-stud joiner can eliminate up to 40% of cutting and 10% of waste.
- It ensures correct 1 ¼ inch overlap, saves on saw blades, creates less dust, and reduces the risk for breakage at corners.
- This method is optional.

Off-Stud Joiner



Off-Stud Joining System



FINISHING:

Patching:

- Repair chips and dents with acrylic patching mortar.
- Prime patched areas before coating with a final finish topcoat.

Caulking:

- Use a high quality exterior grade paintable elastomeric joint sealant complying with STM-C-834 or ASTM-C-920 (grade NS, Class 25) regulations. Caulking must be applied according to manufacturer's written instructions or ASTM-C 1193.

Painting:

- A small amount of material should be painted and evaluated to ensure satisfaction with the appearance before painting all material needed for the job.
- Never apply oil-based paints or stains to MAXITILE products. Stains containing linseed oil are specifically designed for wood and are not suitable for or allowed on fiber cement.
- There are some semi-transparent stain product application methods that will void the MAXIPLANK Warranty. Certain finishing techniques with 100% acrylic latex based paints may be able to replicate a stain-like appearance. Contact MAXITILE or the paint manufacturer if further clarification is needed.
- Before applying the finish paint, please ensure the product is clean and dry. Use a high quality 100% acrylic latex paint. Never apply primer or paint to wet or saturated fiber cement products.
- All fiber cement products must be painted once installed. MAXIPLANK must be painted within 180 days (6 months) of the initial installation date or the warranty will be voided.
- All exposed field cut edges should be covered with a high quality 100% acrylic latex primer or paint.
- Caulking should be paintable or color matched, and should be compatible with MAXITILE siding and the material used for the trim.
- Apply finish paint in accordance with paint manufacturer's written instructions regarding application methods, temperature and other relevant parameters.

MAXITILE will not warrant and does not assume any responsibility for the performance or appearance of field-applied primer and/or paint.

MAXIMUM WIND LOADS MAXIPLANK:

| Width (inches) | Fastener Type | Frame Type | Stud Spacing (inches) | Height of Building (feet) | Maximum basic wind speed (mph) for exposure category ¹ | | | | | |
|----------------|--|---|-----------------------|---------------------------|---|-----|-----|------------------|-----|----|
| | | | | | IBC, IRC ² | | | UBC ³ | | |
| | | | | | B | C | D | B | C | D |
| max. 12 | No. 11 gauge 2.087 inch long galvanized roofing nails ⁴ | 2 by 4 Wood | 16" | 15 | 125 | 100 | 85 | 105 | 80 | 70 |
| | | | | 20 | 120 | 100 | 85 | 100 | 80 | 70 |
| | | | | 40 | 110 | 90 | -- | 90 | 75 | -- |
| | | | | 60 | 105 | 85 | -- | 85 | 70 | -- |
| | | | | 100 | -- | -- | -- | -- | -- | -- |
| max. 9 1/2 | No. 11 gauge 1 3/4 inch long galvanized roofing nails ⁵ | 2 by 4 Wood | 16" | 15 | 130 | 100 | 85 | 110 | 80 | 70 |
| | | | | 20 | 120 | 100 | 85 | 100 | 80 | 70 |
| | | | | 40 | 115 | 90 | -- | 95 | 75 | -- |
| | | | | 60 | 110 | 85 | -- | 90 | 70 | -- |
| | | | | 100 | 100 | -- | -- | 80 | -- | -- |
| | | | | 200 | 85 | -- | -- | 70 | -- | -- |
| max. 9 1/2 | No. 8 by 1 5/8 inch long RPI C/drill screws | No. 20 gauge by 3 5/8" by 1 5/8" metal C/stud | 16", 24" | 15 | 140 | 120 | 105 | 120 | 100 | 85 |
| | | | | 20 | 140 | 120 | 100 | 120 | 100 | 80 |
| | | | | 40 | 140 | 110 | 100 | 120 | 90 | 80 |
| | | | | 60 | 130 | 105 | 85 | 110 | 85 | 75 |
| | | | | 100 | 120 | 100 | 85 | 100 | 80 | 70 |
| | | | | 200 | 110 | 90 | -- | 90 | 75 | 70 |
| max. 9 1/2 | No. 8 by 1 1/4" long RPI C/drill screws | No. 20 gauge by 3 5/8" by 1 3/8" metal C/stud | 16", 24" | 15 | 120 | 90 | -- | 100 | 75 | -- |
| | | | | 20 | 110 | 85 | -- | 90 | 70 | -- |
| | | | | 40 | 105 | -- | -- | 85 | -- | -- |
| | | | | 60 | 100 | -- | -- | 80 | -- | -- |
| | | | | 100 | 85 | -- | -- | 70 | -- | -- |

¹N/A - not applicable

²Basic wind speed is the 3-second gust, miles per hour (km/hr), in accordance with IBC Section 1609.3 and IRC Section R301.2.

³Basic wind speed is the fastest mile speed in accordance with UBC Section 1616.

⁴No. 11 gauge nails has 0.125 inch diameter shank and 0.275 inch diameter head.

⁵No. 11 gauge galvanized roofing nail has 0.120 inch diameter shank and 0.385 inch diameter head.



APPROVALS: In accordance with ICC-ES Legacy Report ESR-1381, MAXIPLANK lap siding is compliant with the following codes: 2006 International Building Code (IBC) and 2006 International Residential Code (IRC). MAXIPLANK lap siding is also recognized for application in the following: State of Florida listing FL # 11009, U.S. Dept. of HUD Materials Release 1338, Texas Department of Insurance Product Evaluation EC-56, and listing in Wildland Urban Interface Handbook (WUI). These documents should also be consulted for additional information concerning the suitability of this product for specific applications.

Additional Installation Information, Warranties, and Warnings are available at www.maxitile.com

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