SELECT CEDARMILL™ • SMOOTH • CUSTOM COLONIAL™ SMOOTH • CUSTOM COLONIAL™ ROUGHSAWN
CUSTOM BEADED CEDARMILL™ • CUSTOM BEADED SMOOTH • STRAIGHT-EDGE SHINGLE PLANK

IMPORTANT: FAILURE TO INSTALL AND FINISH THIS PRODUCT IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND JAMES HARDIE WRITTEN APPLICATION INSTRUCTIONS MAY LEAD TO PERSONAL INJURY, AFFECT SYSTEM PERFORMANCE, VIOLATE LOCAL BUILDING CODES, AND VOID THE PRODUCT ONLY WARRANTY. BEFORE INSTALLATION, CONFIRM THAT YOU ARE USING THE CORRECT HARDIEZONE™ PRODUCTS INSTRUCTIONS.

TO DETERMINE WHICH HARDIEZONE™ APPLIES TO YOUR LOCATION, VISIT WWW.HARDIEZONE.COM OR CALL 1-866-942-7343 (866 9HARDIE)

STORAGE & HANDLING:
Store flat and keep dry and covered prior to installation. Installing siding wet or saturated may result in shrinkage at butt joints. Carry planks on edge. Protect edges and corners from breakage. James Hardie is not responsible for damage caused by improper storage and handling of the product.

OUTDOORS
1. Position cutting station so that wind will blow dust away from user and others in working area.
2. Use one of the following methods:
   a. Best: i. Score and snap ii. Shears (manual, electric or pneumatic)
   b. Better: i. Dust reducing circular saw equipped with a HardieBlade saw blade and HEPA vacuum extraction
   c. Good: i. Dust reducing circular saw with a HardieBlade saw blade (only use for low to moderate cutting)

INDOORS
1. Cut only using score and snap, or shears (manual, electric or pneumatic).
2. Position cutting station in well-ventilated area

Cutting Instructions:
- NEVER use a power saw indoors
- NEVER use a circular saw blade that does not carry the HardieBlade saw blade trademark
- NEVER dry sweep – Use wet suppression or HEPA Vacuum

Important Note: For maximum protection (lowest respirable dust production), James Hardie recommends always using “Best”-level cutting methods where feasible.
NOSH-approved respirators can be used in conjunction with above cutting practices to further reduce dust exposures. Additional exposure information is available at www.jameshardie.com to help you determine the most appropriate cutting method for your job requirements. If concern still exists about exposure levels or you do not comply with the above practices, you should always consult a qualified industrial hygienist or contact James Hardie for further information.

GENERAL REQUIREMENTS:
• HardiePlank® lap siding can be installed over braced wood or steel studs spaced a maximum of 24” o.c. or directly to minimum 7/16” thick OSB sheathing. See General Fastening Requirements. Irregularities in framing and sheathing can mirror through the finished application.
• A water-resistive barrier is required in accordance with local building code requirements. The water-resistive barrier must be properly installed with penetration and junction flashing in accordance with local building code requirements. James Hardie will assume no responsibility for water infiltration. James Hardie does manufacture HardieWrap® Weather Barrier, a non-woven non-perforated housewrap¹, which complies with building code requirements.
• When installing James Hardie products all clearance details in figs. 3-14 must be followed.
• Adjacent finished grade must slope away from the building in accordance with local building codes - typically a minimum of 6” in the first 10’.
• Do not use HardiePlank® lap siding in Fascia or Trim applications.
• Do not install James Hardie products, such that they may remain in contact with standing water.
• HardiePlank lap siding may be installed on flat vertical wall applications only.
• DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie® Products.
• For larger projects, including commercial and multi-family projects, where the span of the wall is significant in length, the designer and/or architect should take into consideration the coefficient of thermal expansion and moisture movement of the product in their design. These values can be found in the Technical Bulletin "Expansion Characteristics of James Hardie® Siding Products" at www.JamesHardie.com.

INSTALLATION:
One or more of the following joint treatment options are required by code (as referenced 2009 IRC R703.3.2):
A. Joint Flashing (James Hardie recommended)
B. Caulking* (Caulking is not recommended for ColorPlus for aesthetic reasons as the Caulking and ColorPlus will weather differently. For the same reason, do not caulk nail heads on ColorPlus products.)
C. “H” jointer cover

INSTALLATION: JOINT TREATMENT

Heavy Duty Caulking

Nail 3/8” from edge of plank

DO NOT Install Trim over HardiePlank®/HardieShingle.

Important Note: For maximum protection (lowest respirable dust production), James Hardie recommends always using “Best”-level cutting methods where feasible.
NOSH-approved respirators can be used in conjunction with above cutting practices to further reduce dust exposures. Additional exposure information is available at www.jameshardie.com to help you determine the most appropriate cutting method for your job requirements. If concern still exists about exposure levels or you do not comply with the above practices, you should always consult a qualified industrial hygienist or contact James Hardie for further information.

WARNING: AVOID BREATHING SILICA DUST
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 HardieBlade saw blade and 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 cleanup methods - never dry sweep.

For further information, refer to our installation instructions and Material Safety Data Sheet available at www.jameshardie.com or by calling 1-888-9HARDIE (1-888-942-3743). FAILURE TO ADHERE TO OUR WARNINGS, MSDS, AND INSTALLATION INSTRUCTIONS MAY LEAD TO SERIOUS PERSONAL INJURY OR DEATH.

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Visit www.jameshardie.com for the most recent version.
**FASTENER REQUIREMENTS**

Blind Nailing is the preferred method of installation for HardiePlank® lap siding products. Face nailing should only be used where required by code for high wind areas and must not be used in conjunction with Blind nailing (Please see JH Tech bulletin 17 for exemption when doing a repair). Pin-backed corners may be done for aesthetic purposes Only. Pin-backs shall be done with finish nails only, and are not a substitute for blind or face nailing.

### BLIND NAILING

#### Nails - Wood Framing
- Siding nail (0.09" shank x 0.221" HD x 2" long)
- 11ga. roofing nail (0.121" shank x 0.371" HD x 1.25" long)

#### Screws - Steel Framing
- Ribbed Wafer-head or equivalent (No. 8 x 1 1/4" long x 0.375" HD) Screws must penetrate 3 threads into metal framing.

#### Nails - Steel Framing
- ET & F Panelfast® nails or equivalent (0.10" shank x 0.313" HD x 1-1/2" long) Nails must penetrate minimum 1/4" into metal framing.
- OSB minimum 7/16"
  - 11ga. roofing nail (0.121" shank x 0.371" HD x 1.75" long)
  - Ribbed Wafer-head or equivalent (No. 8 x 1 5/8" long x 0.375" HD).

### FACE NAILING

#### Nails - Wood Framing
- 6d (0.113" shank x 0.267" HD x 2" long)
- Siding nail (0.09" shank x 0.221" HD x 2" long)

#### Screws - Steel Framing
- Ribbed Bugle-head or equivalent (No. 8-18 x 1-5/8" long x 0.323" HD) Screws must penetrate 3 threads into metal framing.

#### Nails - Steel Framing
- ET & F pin or equivalent (0.10" shank x 0.25" HD x 1-1/2" long) Nails must penetrate minimum 1/4" into metal framing.
- OSB minimum 7/16"
  - Siding nail (0.09" shank x 0.221" HD x 1-1/2" long)
PNEUMATIC FASTENING

James Hardie products can be hand nailed or fastened with a pneumatic tool. Pneumatic fastening is highly recommended. Set air pressure so that the fastener is driven snug with the surface of the siding. A flush mount attachment on the pneumatic tool is recommended. This will help control the depth the nail is driven. If setting the nail depth proves difficult, choose a setting that under drives the nail. (Drive under driven nails snug with a smooth faced hammer - Does not apply for installation to steel framing).

GENERAL FASTENING REQUIREMENTS

Fasteners must be corrosion resistant, galvanized, or stainless steel. Electro-galvanized are acceptable but may exhibit premature corrosion. James Hardie recommends the use of quality, hot-dipped galvanized nails. James Hardie is not responsible for the corrosion resistance of fasteners. Stainless steel fasteners are recommended when installing James Hardie® products near the ocean, large bodies of water, or in very humid climates.

Manufacturers of ACQ and CA preservative-treated wood recommend spacer materials or other physical barriers to prevent direct contact of ACQ or CA preservative-treated wood and aluminum products. Fasteners used to attach HardieTrim Tabs to preservative-treated wood shall be of hot dipped zinc-coated galvanized steel or stainless steel and in accordance to 2009 IRC R317.3 or 2009 IBC 2304.9.5.

• Consult applicable product evaluation or listing for correct fasteners type and placement to achieve specified design wind loads.
• NOTE: Published wind loads may not be applicable to all areas where Local Building Codes have specific jurisdiction. Consult James Hardie Technical Services if you are unsure of applicable compliance documentation.
• Drive fasteners perpendicular to siding and framing.
• Fastener heads should fit snug against siding (no air space). (fig. A)
• Do not over-drive nail heads or drive nails at an angle.
• If nail is countersunk, fill nail hole and add a nail. (fig. B)
• For wood framing, under driven nails should be hit flush to the plank with a hammer (For steel framing, remove and replace nail).
• NOTE: Whenever a structural member is present, HardiePlank should be fastened with even spacing to the structural member. The tables allowing direct to OSB or plywood should only be used when traditional framing is not available.
• Do not use aluminum fasteners, staples, or clipped head nails.

FASTENER REQUIREMENTS continued

Laminate sheet to be removed immediately after installation of each course for ColorPlus® products.

* When face nailing to OSB, planks must be no greater than 9 1/4" wide and fasteners must be 12" o.c. or less.
** Also see General Fastening Requirements; and when considering alternative fastening options refer to James Hardie’s Technical Bulletin USTB 17 - Fastening Tips for HardiePlank® Lap Siding.
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. 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.

COVERAGE CHART/ESTIMATING GUIDE

Number of 12’ planks, does not include waste

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PAINTING JAMES HARDIE® SIDING AND TRIM PRODUCTS WITH COLORPLUS® TECHNOLOGY

When repainting ColorPlus products, James Hardie recommends the following regarding surface preparation and topcoat application:

- Ensure the surface is clean, dry, and free of any dust, dirt, or mildew.
- Repriming is not normally necessary.
- 100% acrylic topcoats are recommended.
- DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie Products.
- Apply finish coat in accordance with paint manufacturers written instructions regarding coverage, application methods, and application temperature.
- DO NOT caulk nail heads when using ColorPlus products, refer to the ColorPlus touch-up section.

COATING CHART/ESTIMATING GUIDE

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