



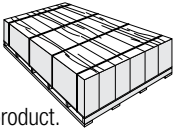
Tough Siding. Easy Choice.
Cemboard[®] fiber-cement siding

INSTALLATION REQUIREMENTS FOR PRIMED AND FACTORY BUILT COLOR TREATED PRODUCTS – EFFECTIVE OCTOBER 2015

IMPORTANT: FAILURE TO INSTALL AND FINISH THIS PRODUCT IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND THE MANUFACTURER'S WRITTEN APPLICATION INSTRUCTIONS MAY LEAD TO PERSONAL INJURY, AFFECT SYSTEM PERFORMANCE, VIOLATE LOCAL BUILDING CODES, AND VOID THE PRODUCT ONLY WARRANTY.

STORAGE & HANDLING:

Store flat and keep dry and covered prior to installation. Installing panels wet or saturated may result in shrinkage at butt joints. Carry product on edge. Protect edges and corners from breakage. The manufacturer is not responsible for damage caused by improper storage and handling of the product.



CUTTING INSTRUCTIONS

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: Dust reducing circular saw

equipped with a HardieBlade[®] saw blade and vacuum dust extraction
c. Good: Circular saw with a HardieBlade saw blade (for low to moderate cutting volume)

* Shears and score/snap methods may not be suitable for products thicker than 1/2 in.

INDOORS

1. NEVER cut with power saws indoors
 2. Cut only using score and snap, or shears (manual, electric or pneumatic).
 3. Position cutting station in well-ventilated area
- NEVER dry sweep – Use wet suppression or Vacuum

NIOSH-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 the manufacturer for further information.

SD083105

GENERAL REQUIREMENTS

- Install Cempanel vertical siding in accordance to HUD Code for Manufactured Housing. James Hardie will assume no responsibility for water infiltration.
- Cempanel vertical siding shall be applied with solid frame blocking at all edges.
- Cempanel may be installed in ceiling dead load application with blocking on long edges.
- Do not install Cempanel such that it may remain in contact with standing water.

Fastening Requirements

- Use 0.092 x 2" minimum corrosion resistant nails.
- Position fasteners 3/8" from panel edges and no closer than 2" away from corners.
- Use edge nail schedule when nailing around window and door openings.
- Nail spacing tolerance for all wind zones (+) 1/2" / (-) infinity at edges and (+1)" / (-) infinity in panel field.

16" OC FRAMING

WIND ZONE I	WIND ZONE II	WIND ZONE III
Panel Edge: 12" OC	Panel Edge: 5" OC	Panel Edge: 5" OC
Panel Field: 12" OC minimum	Panel Field: 5" OC minimum	Panel Field: 5" OC minimum*

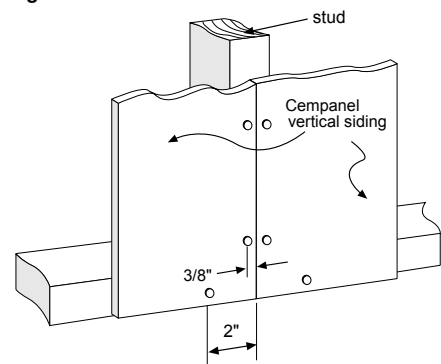
*Double studs within three (3') feet of corners, both side and end walls

24" OC FRAMING

WIND ZONE I	WIND ZONE II	WIND ZONE III
Panel Edge: 6" OC	Panel Edge: 4" OC	N/A
Panel Field: 12" OC minimum	Panel Field: 4" OC minimum**	N/A

**Studs must be 2"x6" minimum

Figure 1



Install per HUD code requirements for Manufactured Housing

Ceiling Dead Load Application

- Foamseal F2100 Adhesive must be on one (1) side of each framing member at the junction of the framing and the panel.
 - The bead of adhesive shall be a minimum of 3/4" average height and 1" average width.
 - Fasteners must be placed a maximum of 24" OC along framing members at the long panel edges.

DANGER: Do not breathe dust from this product. Respirable Crystalline Silica Dust causes damage to lungs and respiratory system through prolonged or repeated inhalation.

Fiber cement is not a health hazard when handled or stored in its original, unaltered condition. The hazard associated with fiber cement arises from crystalline silica present in the dust generated by activities such as cutting, rebating, drilling, routing, sawing, crushing, or otherwise abrading fiber cement, and when cleaning up, disposing of or moving the dust. When doing any of these activities in a manner that generates dust: (1) follow James Hardie instructions and best practices to reduce or limit the release of dust, (2) warn others in the area to avoid the dust, (3) when using mechanical saw or high speed cutting tools, work outdoors and use dust collection equipment, and (4) if no other dust controls are available, wear a NIOSH-approved dust mask or respirator (e.g., the N 95 dust mask).

Refer to the product Safety Data Sheet before use. Do not handle product until all safety precautions have been read and understood. Wash hands and face thoroughly after handling. If exposed to dust or concerned, get medical advice. If shortness of breath or other health concerns develop after exposure to dust from the product, seek medical attention. Dispose of product in accordance with local, state and national regulations. If there are no applicable regulations, dispose of in a secure landfill, or in a way that will not expose others to dust.

WARNING: This product contains a chemical known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov/product.

For more information contact: James Hardie Building Products, Inc., 231 S. LaSalle St., Suite 2000, Chicago, IL 60604 USA 1-888 JHARDIE www.jameshardie.com www.jhsafesite.com

HORIZONTAL JOINT TREATMENT

- Z" bar type flashing (metal or plastic)
- Overlapping the CemPanel by a minimum of 2". Overlapping panel must be blocked at all edges and the nailing schedule must be maintained.

VERTICAL JOINT TREATMENT

- Caulk (primed product only): Use acrylic or latex based caulk meeting ASTM C-834 or C-920 standards. Caulk should indicate performance that is permanently elastic or flexible. Follow caulk manufacturer's requirements for application/use. (fig 2a)
- "T" or "H" type plastic joint: Spacing is determined by the design of the hardware. (fig 2b)
- Batten: Caulk the joint and attach a batten. Batten width is a minimum of 1". (fig 2c)

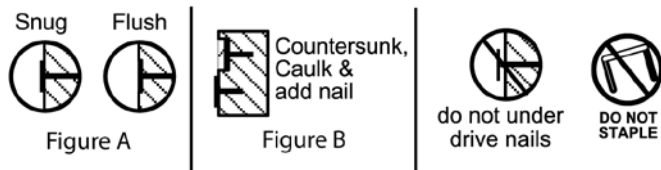
GENERAL FASTENING REQUIREMENTS

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

PNEUMATIC FASTENING

Cemboard 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).

- Consult applicable code compliance report 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 the manufacturer's 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, caulk 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).

- Do not use aluminum fasteners, staples, or clipped head nails.

CUT EDGE TREATMENT

Caulk, paint or prime all field cut edges.

CAULKING

For best results use an Elastomeric Joint Sealant complying with ASTM C920 Grade NS, Class 25 or higher or a Latex Joint Sealant complying with ASTM C834. Caulking/Sealant must be applied in accordance with the caulking/sealant manufacturer's written instructions or ASTM C1193.

Figure 2a

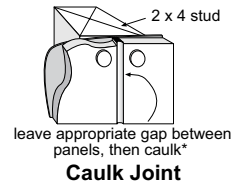


Figure 2b

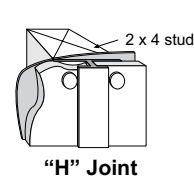
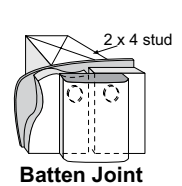


Figure 2c



*Apply caulk in accordance with caulk manufacturer's written application instructions

PAINTING

DO NOT use stain on Cemboard products. Cemboard products must be painted within 180 days for primed product and 90 days for unprimed. 100% acrylic topcoats are recommended. Do not paint when wet. For application rates refer to paint manufacturer's specifications. Back-rolling is recommended if the siding is sprayed.