Read these installation guidelines completely and thoroughly before beginning installation.

Framing Member Requirements

All Applications
Dependent upon method of construction, minimum requirements must be met before Nichiha panels can be installed.
For projects with external insulation of more than one inch, please contact Nichiha’s Technical Department for guidance.

Wood Studs
• Framing member should be wood 2x4 studs, set at a maximum of 16” on center.

Metal Studs
• Framing members should be a minimum of 18-gauge, and set at a maximum of 16” on center.

Concrete Masonry Unit (CMU)
• Must be installed in accordance with local building codes.
• Do not install the product directly onto CMU substrate.
• Nichiha requires the use of furring strips or hat channel.
• Wood furring should be pressure treated 2x4’s, spaced at no greater than 16” on center.
• Hat channel or Z-furring must be minimum 18 gauge, 50 ksi, with depth no greater than two inches, 1-2” flanges, and spaced at 16” on center maximum.

Structural Insulating Panel (SIP)
• SIPs should be installed in accordance with manufacturer’s instructions, and local building codes.
• Two [2] fasteners per clip at 16” o.c. are required as there are no studs to secure clip into.

Pre-Engineered Metal Buildings (PEMBs)
• Please refer to the separate instructions dedicated to requirements and instructions specific to PEMBs.

Weather Resistive Barriers & Flashing Requirements

All Applications
A weather resistive barrier (WRB) is required when installing Nichiha Architectural Wall Panels. Use an approved WRB as defined by the 2006 IRC. Refer to local building codes.
A breathable WRB is highly recommended when installing Nichiha panels for residential applications.
Breathable WRB is required for all commercial applications.
All openings must have appropriate flashing to prevent moisture penetration. Follow manufacturer’s guidelines and all local building codes.

Fasteners

All Applications
Fasteners must be corrosion resistant. Stainless steel or corrosion resistant coated screws such as hot-dipped, zinc or ceramic are recommended. Comply with all local building codes for fastener requirements.

Wood Studs
• Fasteners must penetrate stud or sill plate a minimum of 1”.

Metal Studs
• Screws must penetrate stud or sill plate a minimum of 1/2”.
• Need three [3] threads for effective grab.

Concrete Masonry Unit (CMU)
• Use corrosion resistant masonry screws or pneumatic masonry pins and penetrate furring strip and/or CMU appropriate distance in accordance with building codes.

Structural Insulating Panel (SIP)
• SIPs should be installed in accordance with manufacturer’s instructions, and local building codes.
### Fastener and Ultimate Test Pressure

<table>
<thead>
<tr>
<th>Panel Type</th>
<th>Stud Spacing</th>
<th>Sheathing Type</th>
<th>Framing Type</th>
<th>Screw Fastener Type</th>
<th>Clip Type</th>
<th>Ultimate Test Pressures (psf)</th>
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</thead>
<tbody>
<tr>
<td>5/8&quot; Panels</td>
<td>12&quot; o.c.</td>
<td>7/16&quot; plywood/OSB</td>
<td>Wood</td>
<td>#10 x 1-1/2&quot; long pan head</td>
<td>JES50 and JEL551</td>
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<td></td>
<td>Steel</td>
<td>#10 x 1&quot; long pan head self-drilling</td>
<td>or</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>1/2&quot; gypsum board</td>
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<td>#10 x 1-1/2&quot; long pan head</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>1/2&quot; gypsum board</td>
<td>Wood</td>
<td>#10 x 1-1/2&quot; long pan head</td>
<td>JES301</td>
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<td>Steel</td>
<td>#10 x 1&quot; long pan head self-drilling</td>
<td>or</td>
<td></td>
</tr>
<tr>
<td></td>
<td>12&quot; o.c.</td>
<td>7/16&quot; plywood/OSB</td>
<td>Wood</td>
<td>#10 x 1-1/2&quot; long pan head</td>
<td>JES50 and JEL551</td>
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<td>Steel</td>
<td>#10 x 1&quot; long pan head self-drilling</td>
<td>or</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1/2&quot; gypsum board</td>
<td>Wood</td>
<td>#10 x 1-1/2&quot; long pan head</td>
<td>JES302</td>
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<td>or</td>
<td></td>
</tr>
<tr>
<td>3/4&quot; Panels</td>
<td>16&quot; o.c.</td>
<td>7/16&quot; plywood/OSB</td>
<td>Wood</td>
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<td></td>
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<td>Steel</td>
<td>#10 x 1&quot; long pan head self-drilling</td>
<td>or</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1/2&quot; gypsum board</td>
<td>Wood</td>
<td>#10 x 1-1/2&quot; long pan head</td>
<td>JES302</td>
<td>206.9</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Steel</td>
<td>#10 x 1&quot; long pan head self-drilling</td>
<td>or</td>
<td></td>
</tr>
</tbody>
</table>

1. Fasteners must be corrosion resistant. Stainless steel or corrosion-resistant, coated screws such as hot-dipped zinc or ceramic are recommended.
2. Fasteners must also comply with local building codes and be sufficient to withstand dead loads and wind loads specific to individual building projects.
3. Ultimate test pressures do not include safety factors specific to particular design codes. Project engineer(s) should determine project’s zone 4 and 5 wind loads based on design code, exposure category, and building height.
Design Pressures and Wind Loads

Wind exerts pressure on buildings and their exterior cladding. Because Nichiha panel products have large surface areas and are attached to structures via a patented clip system that creates an air space (rainscreen) between the panel and exterior substrate, there are natural limits imposed on where these products can be installed. Pressure on a building increases with height, among other factors. Thus, for proposed installations above 45 feet, you must contact Nichiha’s Technical Department and follow the Special Application Form (SAF) process. By providing us certain key information, we can reference independently test-derived and calculated wind load performance data for our products to determine whether the panels can safely be installed on the project. Some projects may require the use of JES301 or JES302 high-wind-load aluminum clips.

Installing The Starter Track

All Applications

- The Nichiha Starter Track (FA100) must be level and attached at a minimum of 6” above “finished” soil grade or per local building codes (use a laser level to verify). When installing over a hard surface such as driveways or sidewalks, a 2” clearance is acceptable.
- The starter track must be installed using corrosion resistant fasteners.
- Locate and mark studs.

Wood & Metal Studs

- Starter track must be secured at every stud line.

Concrete Masonry Unit (CMU)

- When installing over concrete construction, wall must be furred out with pressure treated lumber or metal hat channel. Starter track must be secured through furring.

Structural Insulating Panel (SIP)

- Secure starter track not to exceed 16” o.c.

Installing The First Panel Course

All trim must be installed before panels.

- The use of the single or double flange sealant backer is recommended with all trim or corner pieces, respectively.

Panel Installation

1. Set first panel into the starter track and attach using a panel clip at top of panel at each stud, working from left to right.
2. Place a joint clip at the top of all vertical panel joints.
3. Verify first course of panels is level. Large commercial buildings require checking level around entire building.

A rubber mallet or block of wood may be used to seat the panels firmly in place and tighten to the left. Do not hammer directly anywhere on the panels as direct contact may cause cracks, gouges or chipping.
4. Fit panels tightly together on both horizontal and vertical joints ensuring that panel edges are properly butted together. Set the panels by tapping the edge with a block of wood until panel fits tightly.

*Panel Clips* must be installed at every stud line.

Continue using appropriate clips (see next section for correct clip usage) on top edge of panel as the work proceeds from the bottom of the wall to the top, moving left to right along the row.

**Correct Clip Usage & Placement**

Panel Clips *(JE650/JE550) (JE710/JE720CA - Canada Short Panel Clips)*
- Use Panel Clips on top edge of panel as the work proceeds from the bottom of the wall to the top. Move left to right along the row.
- A Panel Clip must also be inserted at the bottom of every vertical joint to help stabilize the vertical joint when panels are installed in a staggered pattern.

Joint Clips *(Short - JEJ607/JEJ555) (Long - JEL651/JEL551/JEL652/JEL552)*
- A Joint Clip must be used at the top of all vertical ship-lapped joints. For proper clip identification see Clip Usage Chart on next page.
- Short Joint Clips may be used on OSB or plywood sheathing (at the top of the joint).
- Long Joint Clips must be used at the top of the joint on any non-structural sheathing i.e. foam insulating panels or gypsum sheathing (such as Dens-Glass® by Georgia Pacific).

*DENSGLASS* is a registered trademark of Georgia Pacific Corporation.
### Clip Usage Charts

#### 5mm Rainscreen

<table>
<thead>
<tr>
<th>Architectural Wall Panels</th>
<th>Sheathing Type</th>
<th>Joint Clip</th>
<th>Panel Clip</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/8” (16mm) Panels</td>
<td>7/16” or greater OSB or Plywood</td>
<td>JEJ505/short</td>
<td>JE550</td>
</tr>
<tr>
<td>ArchitecturalBlock™, CanyonBrick™, EmpireBlock™, FieldStone™, QuarryStone™, VintageWood™</td>
<td>Foam Board, Black Board or no sheathing &amp; all others</td>
<td>JEL551/long</td>
<td>JE550</td>
</tr>
<tr>
<td>3/4” (18mm) Panels</td>
<td>7/16” or greater OSB or Plywood</td>
<td>JEJ607/short</td>
<td>JE650</td>
</tr>
<tr>
<td>SandStone™ II, VintageBrick™</td>
<td>Foam Board, Black Board or no sheathing &amp; all others</td>
<td>JEL651/long</td>
<td>JE650</td>
</tr>
</tbody>
</table>

#### 10mm Rainscreen

<table>
<thead>
<tr>
<th>Architectural Wall Panels</th>
<th>Joint Clip</th>
<th>Panel Clip</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/8” (16mm) Panels</td>
<td>JEL552/long</td>
<td>JE710</td>
</tr>
<tr>
<td>ArchitecturalBlock™, CanyonBrick™, EmpireBlock™, FieldStone™, QuarryStone™, VintageWood™</td>
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<td></td>
</tr>
<tr>
<td>3/4” (18mm) Panels</td>
<td>JEL652/long</td>
<td>JE720</td>
</tr>
<tr>
<td>SandStone™ II, VintageBrick™</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Clip Images

- **Panel Clip**
  - JE550
  - JE650
  - JE710
  - JE720

- **Short Joint Clip**
  - JEJ607
  - JEJ555

- **Long Joint Clip**
  - JEL651/JEL551/JEL652/JEL552
High Wind Load Clip Usage & Placement (JES 301, 302)

When installing panels using the high wind load aluminum clips, begin by adding trim, starter track, and single flange sealant backer as previously described.

- Working from left to right, set the first panel into the starter track.
- Place the first clip one inch from the left edge of the panel and fasten at each stud location.
- Proceed along the panel to the right, placing another clip 3-4 inches from the end of the previously installed clip so that the second clip is roughly centered over the panel middle. Fasten at each stud location.
- Place the second panel next to the first, making sure the shiplap joint fits tightly together. Place a clip on top of this vertical joint.
- Vertical joints should be spanned equally with a clip covering the top edge where the panels meet.
- Each panel should be supported by about 2.5 clips.
- Proceed with the rest of the row in the same manner. Ensure the first course is level. Large commercial buildings require checking level around the entire structure.
- Start the second row in the same fashion as the first, but, in addition to the previous steps, add the vertical joint tab attachment against the bottom right hand corner of the panel. Fasten the tab through the clip if plywood or OSB sheathing is not used.
- Complete the second and remaining rows in the same way, with the vertical joint tab attachments at the base of each vertical joint.
- The top row must be face fastened with a FS1005 corrugated shim behind the top edge of the panel. The fasteners should be placed a minimum of one inch below the top edge.

Metal Trim

General Instructions

- These general instructions apply to all five metal trim types: J, H, Bead Reveal, Corner Key, and Open Outside Corner. Nichiha metal trim provides aesthetically pleasing design options for corners, openings, and transitions, as well as expansion joints.
- Metal trim pieces are designed to accommodate panels and attachment clips with 5 or 10 mm rainscreen depth.
- Metal trim cannot prevent moisture intrusion behind the cladding and is not part of a moisture management system. Thus, a water resistant barrier (WRB) is required in order to protect the building envelope.
- Cut off appropriate panel shiplap edges where metal trim is to be used. Seal cut panel edges with acrylic primer or paint.

Trim Applications

<table>
<thead>
<tr>
<th>Trim</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>J-Mold</td>
<td>Openings, side &amp; top edges</td>
</tr>
<tr>
<td>H-Mold</td>
<td>Vertical expansion joints</td>
</tr>
<tr>
<td>Bead Reveal</td>
<td>Vertical expansion joints</td>
</tr>
<tr>
<td>Corner Key</td>
<td>Outside corners</td>
</tr>
<tr>
<td>Open Outside Corner</td>
<td>Outside corners</td>
</tr>
</tbody>
</table>

Cutting and Painting

- Metal trim pieces are each 10 feet in length. To cut metal trim, a non-ferrous carbide miter saw blade is appropriate.
- For painting metal trim, use Direct to Metal (DTM) paint. See Tamlyn’s XtremeTrim Painting Guide (nichiha.com).

Fastening

- Install WRB first and then metal trim before the panels.
- Fasten with corrosion-resistant fasteners (stainless steel recommended) through trim flanges every 12 to 16 inches into studs or corner blocking.
- Stagger fasteners on alternating sides on corner and transition trim pieces.

Sealant

- A polyurethane sealant that complies with ASTM C-920 standards is required where trim pieces butt together.
- Sealant may also be applied to trim as a continuous 3/8” vertical bead before panels are installed.
Inside Corners, Doors & Windows

All Applications

There are several inside corner, door and window installation options:
• Metal Trim (J-Mold)
• Single Flange Sealant Backer
• Fiber Cement & PVC Trim Boards
• Vinyl & Plastic Trim

• Appropriate flashing should be used to prevent moisture penetration on all inside corners, doors and windows. Refer to local building codes for best practices.
• When cutting around doors and windows the panels may be installed into a vinyl, metal, or aluminum J-channel. Panels must fit completely within trim, with no exposed panel edges and face fastened, but leaving a 1/8" space between panel edge and J-channel.
• A minimum gap of 1/4" is required when butting panels into windows, doors, expansion joints and corner trim. Use a Single Flange Sealant Backer, fill gap with polyurethane sealant. Sealant must be compliant with ASTM C-920.
• Cut and exposed panel edges must be primed or sealed with fiber cement sealer (e.g. DryLock®) or paint.

Single Flange Sealant Backer Inside Corners
1. Decide the location of the line of sight to minimize visibility of the sealant gap.
2. Install the panel (ship-lap edges at the joint will need to be cut off) on the front wall first. Ensure panel is butted up tight to the inside corner wall. Fasten the Single Flange Sealant Backer onto the side wall right up against the front wall panel's edge at 12-14” o.c.
3. Install side wall panel right up against the sealant backer and secure with panel clip. Fill space with sealant to about 75-80% in depth.

Single Flange Sealant Backer Doors & Windows
• Install the Single Flange Sealant Backer first, butting to the door/window jamb or trim pieces, prior to installing the panels. The Single Flange Sealant Backer must be fastened a minimum of 12” to 14” o.c.
• Install panels and fill gap with recommended sealant.

Fiber Cement & PVC Trim Boards
• When panels are to be butted to fiber cement or PVC trim, a minimum gap of 1/4" width is required.

Vinyl & Plastic Trim Channel
• Install trim channel in accordance with manufacturer's installation instructions. Fit panel into channel trim snuggly, so that panel edges are not exposed and face fasten panel.
• Apply polyurethane sealant into the gap.

Face Fastening Panels - All Options
• Fasten panels a minimum of 1” from all panel edges. This will avoid cracking or breaking panel. Best practice is to pre-drill panel before fastening.
• When face fastening panels, use Nichiha Spacer (FS1005 or FS1010) behind the panels to ensure panel stability.
Safety Reminder

When cutting Nichia products, you must wear a properly fitted, NIOSH/OSHA approved respirator with a rating of N100, O100 or P100. Respirator use must be in accordance with applicable government regulations and manufacturer instructions. For your health and safety, refer to the Nichia Safety Guidelines for additional important information.

All panels should be marked and cut from the back side.

Outside Corners

- There are several outside corner installation options.
  - Mitering Panel Corners
  - Pre-Manufactured Mitered Corners
  - Fiber Cement and PVC Trim Boards
  - Metal and Vinyl Trim (Nichia Corner Key, Open Outside Corner)
- Appropriate flashing must be used as required to prevent moisture penetration on outside corners.

Mitering Panel Corners

Outside corners can be fabricated in the field by mitering the panels at 45 degrees for a continuous clean look.

- Always cut panels from back.

1. Cut panels at a 45° angle and dry fit panels together to ensure best appearance.

2. Clean the cut edges of all panels with a damp cloth.

• When installing brick panels, one side should have a full brick pattern on the panel, then the wrap-around brick should be a half-brick pattern for an authentic appearance.
3. Apply polyurethane adhesive (such as PL Premium) on mitered edges to secure panel. Use a polyurethane adhesive for exterior applications. Follow manufacturer’s instructions.

4. Attach panels to substrate. Leave edges untouched until the polyurethane adhesive has completely dried.

5. Bevel the edges utilizing a sander, putty knife, file or utility knife, until edges have a clean finished appearance.

6. Fill any gap or crevices with exterior-grade cementitious filler such as MH Ready-Patch® by Zinsser. DO NOT USE POLYURETHANE SEALANT AS A REPLACEMENT FOR EXTERIOR FILLER.

7. Apply a color matched 100% acrylic latex exterior paint to beveled edges for a clean finished appearance.

Pre-Manufactured Mitered Corners
- Always install Nichiha Pre-Manufactured Corners before pane
Nichiha Recommended Method

1. Set corner piece on the starter track and secure with one Nichiha corner clip (JE 550C & JE 650C). Clips are to be placed at the bottom and top of the ship-lapped edges. *For 10mm rainscreen applications, corner clip may require FS1005 Shim on both sides.

2. Place the Double Flange Sealant Backer (FH 1010, FH 1020*) behind the corner piece (at both walls) all the way down into the starter track. Fasten at 12" - 14" o.c. only on the side butting up to the panel course. *For 10mm rainscreen applications, use FH1020.

3. After all panels have been installed, apply sealant at 75% - 80% depth. Sealant must be compliant with ASTM C-920.

Fiber Cement & PVC Trim Boards

- When panels are to be butted to fiber cement, wood or other trim piece, a minimum gap of 1/4" width is required.

- Use Nichiha Single Flange Sealant Backer as directed.

- Apply polyurethane sealant to joint width. Sealant must be compliant with ASTM C-920.

Metal & Vinyl Trim

- Install trim channel, Nichiha Corner Key or Open Outside Corner, in accordance with manufacturer's installation instructions. (See Nichiha Metal Trim section of this guide.) Fit panel into to channel trim snugly, so that panel edges are not exposed.

- Install the Single–Flange Sealant Backer first butting to the door/window jamb or trim pieces, prior to installing the panels. The Single-Flange Sealant Backer must be fastened about 12"-14" o.c.

- Apply polyurethane sealant to joint width. Sealant must be compliant with ASTM C-920.

Installation Around Garage Doors & Other Large Openings

All Applications

- Install starter track 1” above garage door casing.

- Establish a level line from the bottom of the starter track out to the side on both ends with a laser level.

- Use this line to measure down the wall (each side of garage) to attach the starter track so that the panels will meet at the proper height.

- Use Spacer (FS 1005, FS 1010*) behind the panel at the bottom course, which will be scribed to the contour of the surface. *For 10mm rainscreen applications, use FS1010.

- Panels at the bottom course of the garage door opening must be face fastened to the studs.

- Note: When face fastening, always fasten at least 1” from all panel edges to avoid panel cracking or breakage.
Installing The Last Course / Gable & Overhang Installation

1. Fasten vented spacer (FS1005, FS1010") at studs at the top of the last of panel course. This is needed to maintain the rain screen without using the clips. *For 10mm rainscreen applications, use FS1010.

2. Cut panels (horizontally) to properly fit at the roof line (or at the proper transition point).

3. Continue to use the stabilizer clip at the bottom of all vertical joints.

4. Face-fasten panels at the studs and through the green spacer (FS1005, FS1010") all along the top. Pre-drill panels 1" from the top (cut) edge. *For 10mm rainscreen applications, use FS1010 to prevent panel cracking.

5. Cover panels with roof cap, where applicable.

6. Fill counter-sunk fastener holes with exterior cementitious filler, such as MH Ready Patch by Zinsser and paint to match panel with a high grade exterior latex paint.

Gable & Overhang Installation

- All face-fastened panels must be shimmed out with a vented spacer such as Nichiha FS 1005 Spacer. *For 10mm rainscreen applications, use FS1010.

- Seal all panel edges as described in Inside and Outside Corner sections of this manual. Do not leave any panel edges exposed.

- Panels installed along gable or overhang edges must be face fastened. When face fastening, apply screws at least 1" from any panel edge. This will avoid cracking or breaking of panel.
**Vertical Expansion Joints**

**All Applications**
- Vertical Expansion Joints are required approximately every 30 feet on installations of 50 feet and greater without corners or off-sets (i.e., windows & doors), and within 2 to 10 feet of outside corners (on both walls).
- Double Flange Sealant Backer may be fastened on only one side (the right side) at 12” - 14” o.c.

**Installing A Vertical Expansion Joint**

1. Install vertical expansion joint (Nichiha Double Flange Sealant Backer FH 1010, FH1020) to butt up against panel and secure joint to substrate on one side. Panel ship-lapped edges must be cut off to achieve a tight fit against the sealant backer.

2. Install next panel to joint and secure with appropriate clips. This provides the minimum 1/4” wide sealant joint.

3. Apply a low-adhesive tape along the length of panel and trim edges for a smoother finish when the sealant is applied and tape removed.

**Benefits Of Using Nichiha Double Flange Sealant Backer**
- Is an exact spacer for expansion joints.
- Provides a 2-point contact between the sealant and the panels.
- Provides the recommended depth of sealant (75-80%).
- Provides faster installation relative to a foam backer rod.
- Uses less sealant than a foam sealant than a foam backer rod.

**Metal Trim Vertical Expansion Joints**
- H Trim can be used at vertical expansion joints for 6 and 10 foot panels.
- Reveal Trim is intended as an alternate vertical expansion joint treatment for 10’ panels installed horizontally.
- See Nichiha Metal Trim section for general instructions.
- For H Trim, leave a 1/8” gap between panel edge and trim center flange.
- For Reveal Trim, butt panel edge to trim in light contact.
- Seal panel edges with acrylic primer or paint.

**Horizontal Compression Joints**

**All Applications**
- For any buildings greater than 3 stories or 45 feet, horizontal compression joints are required.
  * For metal framing, add a joint every 25 feet for projects of more than 3 stories.
  * For wood framing, a joint is required at each floor for projects of 3 stories or more.
  * Avoid spanning floor lines with panels.
- Please contact the Nichiha Technical Department for assistance.

**Installing a Horizontal Compression Joint**

1. Install z-shaped metal flashing or drip cap over the top edge of the bottom panels. Top ship-lapped edge of the bottom panel is cut and face fastened with the appropriate shim behind it.

2. Install starter track above z-flashing, such that the next course of panels sit 1/2 inch above the course below it. (Remember panels sit 3/4” below starter). Check for level.

3. Continue to install panels according to these guidelines with compression joints at the appropriate elevation.
**Interior Wall Installation**

Please follow the installation instructions for exterior applications with the following exceptions:

- Building paper or wrap is not needed for interior applications. Panel can be installed directly to wood and metal studs. Wall board or substrate is also not required for interior installations, providing stud spacing is appropriate.

- In applications such as a kitchen backsplash, use approved construction adhesive to secure panels to the substrate. Apply 1/2 oz. of adhesive to the panel or substrate every six inches vertically and every 16 inches horizontally. If possible, secure panels to substrate with fasteners until adhesive dries.

**Replacing Damaged Panels**

1. Set the depth of the circular saw blade slightly deeper than the panel so the saw blade does not cut into the building wrap or sheathing.

2. Make additional cuts into the damaged panel and break into pieces for easier removal of the damaged panel.
3. Remove damaged panel.

4. Cut 3/16" off ship-lapped edge at bottom of panel.

5. Cut the right side of ship-lapped edge off the panel.

6. Use a 1/4" vented plastic shim and place behind the new panel at top and bottom.

7. Prepare to set new panel in place.
8. Lift panel into place by prying from the bottom upward. Pre-drill and face fasten panel with a screw into framing member.


Cleaning Panels
After completion of installation, it may be necessary to clean panels.

- When cleaning panels, use no more than 400 psi of water pressure at 10” to 12” away.
- To clean heavily soiled areas a mild detergent and/or soft bristle brush may be required.

Removal of Exterior Acrylic Latex Paint From Nichiha Panels

- Wet Paint Removal - While the paint is still wet, flush the area with clean water, using mild abrasion with a clean cloth or soft brush.
- Semi-Dry Paint Removal - If paint has set, but not dried, flush and clean as above, followed with light scrubbing with alcohol to remove any remaining paint residue. Rinse with water and clean cloth.
- Dry Paint Removal - Please refer to paint-removal guide in the next section.

Test Results of Paint Removal On Panels

Paints and Graffiti Removal

- The following products have been tested on Nichiha panels to aid in the removal of graffiti type markings. The panels were sprayed with an indoor/outdoor aerosol spray paint, left to dry overnight and then the paint remover products were applied following the manufacturers’ guidelines.

- All products tested achieved good results. However, the outcome may vary depending on the amount of paint that needs to be removed. Be sure to follow all manufacturers’ guidelines and test in an inconspicuous area before working in a larger area. *Nichiha is not liable for any damages to the panels caused by the use of these cleaners.

Citristrip
www.citristrip.com
Products tested:
- Citristrip Striping Gel - One Quart container
- Citristrip Stripping Aerosol - 18 oz. spray can
- Available at do-it-yourself stores

Tagaway
www.tagaway.com
Products tested:
- Tagaway - 32 oz. trigger spray bottle
- Available online and local stocking distributors

Zinsser
www.zinsser.com
Products tested:
- Zinsser Graffiti Remover and Stripper- 16 oz. trigger spray bottle
- Available at retail do-it-yourself stores

Silica Dust Warning: NICHIA products may contain some amounts of crystalline silica [a.k.a. sand, silicon dioxide], which is a naturally occurring mineral. The amount will vary from product to product. Inhalation of crystalline silica into the lungs and repeated exposure to silica can cause health disorders, such as silicosis, lung cancer, or death depending upon various factors. To be conservative, Nichia recommends that whenever cutting, sawing, sanding, striping or abrading the product, users observe the Safety Instructions above. For further information or questions, please consult the MSDS, your employer, or visit www.osha.gov/SI/Lic/Pages/silica 소개/index.aspx and www.cdc.gov/niosh/topics/silica. The MSDS for Nichia products are available at www.nichiha.com, at your local Nichia dealer or through Nichia directly at 1.866.424.4421. FAILURE TO ADHERE TO OUR WARNINGS, MSDS, AND OTHER INSTRUCTION MAY LEAD TO SERIOUS PERSONAL INJURY OR DEATH.