Storage

- extreme® green® panels should be stored in a cool, dry environment and should remain in the manufacturer’s packaging bearing the brand name and manufacturer’s logo and Listing Number until ready for use.
- extreme® green® panels should be stored on the manufacturer’s pallets off the ground and away from standing water. To protect edges from damage, do not store extreme® green® panels vertically.
- To prevent the risk of injury, do not stack extreme® green® panels higher than 10 feet high.
- Loose storage of extreme® green® panels is not recommended.
- Cover extreme® green® panels with a waterproof material when stored outdoors or on site to protect against weather, direct sunlight, surface contamination, and construction traffic. This will make finishing preparation easier.

Precautions + Safe Handling

- Use work practices that minimize the creation of dust.
- Try to avoid the inhalation of dust wherever possible.
- Wear appropriate personal protective equipment.
- Wash hands after use.
- Observe good industrial hygiene practices.
- Ensure that forklift or similar equipment is rated as capable of lifting and moving loads. Forks should extend completely under the entire load.
- Forks should be extended as wide as practical.
- extreme® green® panels are heavy, awkward loads and pose the risk of severe back injury. Always use proper lifting techniques.
- A minimum of two persons are required when loading or handling extreme® green® panels.
- Hold extreme® green® panels with hands spaced apart to prevent excessive bending/flexing.
- When extreme® green® panel thickness is less than 1/4 in. thick, it is recommended that one carries two panels at the same time.
- Always consult extreme® green® SDS.

Cutting

- A fine tooth handsaw or power saw is recommended to cut extreme® green® panels.
- Support both ends of the board when cutting.
- A utility knife can be used to score and snap extreme® green® panels, thus reducing dust. Always wear approved safety glasses or goggles when cutting extreme® green® panels.
- Always wear an approved dust mask or respirator when cutting, cleaning up or disposing of extreme® green® panels.
- Always use a T-square to mark out cuts.
- Always make rounded or irregular cuts with a hole saw, jigsaw or similar tool. Ensure saws are fitted with the correct blade for the job.
- To perform cut-outs in extreme® green® panels, for plumbing cut-outs, electrical outlets, light switches, etc., carefully measure and mark the location of the opening on the smooth side of the panel before making a cut. If using a jigsaw, drill a starter hole in the corner of the proposed cut-out and start cut from here. Alternatively, cut-outs can be removed using a hole saw, roto-zip, (or equivalent) hand tool.
extremegreen® Sheathing Product Overview

- extremegreen® sheathing panels are instantly recognizable by their bright white color and have multiple layers of proprietary fiberglass mesh embedded into the panel.
- extremegreen® sheathing panels are non-combustible, fire, water, mold and termite resistant.
- They are people safe and contractor friendly and do not off-gas.
- They are non-carcinogenic and produce no toxic dust when cut.
- extremegreen® sheathing panels can be used for exterior sheathing and roof decking applications.
- extremegreen® sheathing panels are stronger, lighter and more impact resistant than other sheet building materials.
- extremegreen® sheathing panels are specially designed and engineered for added fire-resistance and are more than twice as fire-resistant as exterior gypsum panels.
- extremegreen® sheathing panels offer 2-hour plus fire-resistance from single layer assemblies, thus saving valuable time and labor during installation and delivering thinner, stronger walls with better acoustical performance.
- extremegreen® sheathing panels are installed in a very similar fashion to traditional plywood, OSB and exterior gypsum sheathing panels.
- To ensure a smooth start to your project, determine the materials, quantities needed and the installation method to best suit the job. extremegreen® building products offers a variety of extremegreen® panel and finishing products for different applications.
- extremegreen® panels are a ‘one board fits all’ building product and is the only panel you need for your building project.
- Always consult local building codes for fire-resistance requirements.

Application Products

Fastening & Framing

- Always use a Code approved powder coated, stainless steel, or yellow zinc coated fiber-cement board, wood, or deck screw, with nibs for improved counter-sinking, to attach extremegreen® panels to wood framing.
- Always use a Code approved powder coated, stainless steel, or yellow zinc coated self-drilling sheathing-to-CFS screw with nibs for improved counter-sinking to attach extremegreen® panels to steel framing.
- Wood and steel bugle head gypsum screws are not recommended for any exterior sheathing or roof decking applications.

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Max. Framing Spacing</th>
<th>Panel Orientation</th>
<th>Fastener Spacing - Wood Framing</th>
<th>Fastener Spacing - Metal Framing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2 in. (12mm)</td>
<td>16 in. (405mm) o.c.</td>
<td>Parallel or Perpendicular</td>
<td>6 in. o.c. on the perimeter &amp; 8 in. o.c. in the field</td>
<td>6 in. o.c. on the perimeter &amp; 8 in. o.c. in the field</td>
</tr>
<tr>
<td>1/2 in. (12mm)</td>
<td>24 in. (610mm) o.c.</td>
<td>Parallel or Perpendicular</td>
<td>6 in. o.c. on the perimeter &amp; 8 in. o.c. in the field</td>
<td>6 in. o.c. on the perimeter &amp; 8 in. o.c. in the field</td>
</tr>
<tr>
<td>5/8 in. (16mm)</td>
<td>16 in. (405mm) o.c.</td>
<td>Parallel or Perpendicular</td>
<td>6 in. o.c. on the perimeter &amp; 8 in. o.c. in the field</td>
<td>6 in. o.c. on the perimeter &amp; 8 in. o.c. in the field</td>
</tr>
<tr>
<td>5/8 in. (16mm)</td>
<td>24 in. (610mm) o.c.</td>
<td>Parallel or Perpendicular</td>
<td>6 in. o.c. on the perimeter &amp; 8 in. o.c. in the field</td>
<td>6 in. o.c. on the perimeter &amp; 8 in. o.c. in the field</td>
</tr>
</tbody>
</table>

Notes:
- Fire-resistant assemblies may require additional fasteners, see specific assembly details.
- For 2-hour load bearing fire-fire-resistant assemblies nail spacing must be Min. 6 in. o.c. on the perimeter and in the field.
- Nails are an acceptable form of fastener to attach extremegreen® sheathing panels to wood framing. Screws however, are the manufacturer’s preferred fastening method.
- For best racking strength resistance, apply extremegreen® sheathing panels with long edge parallel with studs / vertical framing.

<table>
<thead>
<tr>
<th>Fastener Length</th>
<th>Description</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2 in. (12mm) thick extremegreen® sheathing</td>
<td>Powder coated or stainless steel corrosion resistant self-drilling screw.</td>
<td>extremegreen® sheathing to heavy gauge metal framing. (18 gauge or thicker)</td>
</tr>
<tr>
<td>5/8 in. (16mm) thick extremegreen® sheathing</td>
<td>Yellow zinc, powder coated or stainless steel wood screw.</td>
<td>extremegreen® sheathing to wood framing.</td>
</tr>
</tbody>
</table>
Available Sizes & Dimensions
extremegreen® sheathing panels are available in 1/2 in. (12mm) and 5/8 in. (16mm) thicknesses. extremegreen® sheathing is manufactured in 4 ft. (1220mm) width and 8 ft. (2440mm), 9 ft. (2750mm) and 10 ft. (3050mm) lengths. Other lengths are available by special order.

extremegreen® sheathing is an ideal sheathing substrate under brick, stone, stucco, siding and Exterior Insulation and Finishing Systems (EIFS) due to its unparalleled structural strength, resistance to water and mold, termites and other wood boring insects impact resistance and fastener holding capacity. extremegreen® sheathing should be specified where there is concern about construction site exposure to adverse weather, risk of delimitation, warping, bowing, or where external siding or cladding needs to be fastened to a sheathing substrate.

Mold Resistance
When tested to ASTM Standard G21, the standard test for a building material’s resistance to mold and/or fungi growth, extremegreen® sheathing scored a 0/0/0 rating. This essentially means that in a 31 day controlled laboratory test, no mold growth was observed. extremegreen® sheathing can be considered as mold proof, which few, if any building materials can claim. For further information visit www.extremegreenbp.com.

Strength
extremegreen® sheathing is manufactured from magnesium oxide cement and has multiple layers of proprietary fiberglass mesh embedded in each panel. This offers unparalleled rack and shear strength in addition to superior compressive strength, which makes it an ideal replacement for OSB, plywood and exterior gypsum sheathing. It also provides a first class bonding surface for EIFS and air barrier systems. The proprietary fiberglass mesh found in extremegreen® sheathing delivers similar structural values in both machine and cross-machine directions, resulting in a panel that can be installed vertically or horizontally, without sacrificing the structural integrity of a wall system. extremegreen® sheathing panels actually help to increase the structural integrity of a wall assembly.

Fire-Resistance
extremegreen® sheathing is non-combustible as described and tested in accordance with ASTM E136 or CAN/ULC S114. It also scores a 0 flame spread and 0 smoke developed rating when tested in accordance with ASTM E84 / UL723 / UBC 8-1 / NFPA 255. Both 1/2 in. (12mm) and 5/8 in. (16mm) extremegreen® sheathing are included in multiple UL and ULC listings and other designs, which can be found at www.ul.com, or by contacting extremegreen® building products.

Using extremegreen sheathing
extremegreen® sheathing is lighter than other competing cement boards and is much easier to use and install. It has been designed and engineered to be installed in a similar fashion to the product that it is replacing. It can be scored and snapped, cut with a regular circular saw and is strong enough to withstand the abuse often present on construction sites. It is not brittle and can be fastened using screws or nails.

Warranty
extremegreen® sheathing is covered by a limited lifetime manufacturer’s warranty against product defect, delamination or deterioration for exposure to adverse weather conditions. Visit www.extremegreenbp.com for further information.

Standards & Code Compliance
extremegreen® sheathing is manufactured in a strict quality controlled environment with a third party quality assurance program in place, monitored by NTA, Inc., UL and Intertek. Strict quality control procedures ensure that extremegreen® sheathing is manufactured to the highest possible standard. See:

- www.ntainc.com
- www.ul.com
### extremegreen® Physical Properties

#### Product Comparison

<table>
<thead>
<tr>
<th></th>
<th>1/2 in. (12mm)</th>
<th>5/8 in. (16mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Width &amp; Tolerances</strong></td>
<td>4 ft. (1220mm) +/- 5/64 in. (2mm)</td>
<td>4 ft. (1220mm) +/- 5/64 in. (2mm)</td>
</tr>
<tr>
<td><strong>Lengths &amp; Tolerances</strong></td>
<td>8 ft., 9 ft., 10 ft. (1220mm, 12750mm, 3050mm) +/- 5/64 in. (2mm)</td>
<td>8 ft., 9 ft., 10 ft. (1220mm, 12750mm, 3050mm) +/- 5/64 in. (2mm)</td>
</tr>
<tr>
<td><strong>Thickness Tolerance</strong></td>
<td>1/32 in. (+/- 0.5mm)</td>
<td>1/32 in. (+/- 0.5mm)</td>
</tr>
<tr>
<td><strong>Weight (lbs/sf)</strong></td>
<td>2.47</td>
<td>3.65</td>
</tr>
<tr>
<td><strong>Bending Strength - Machine (psi)</strong></td>
<td>1,800</td>
<td>-</td>
</tr>
<tr>
<td><strong>Elastic Modulus (Bending)</strong></td>
<td>670,000</td>
<td>-</td>
</tr>
<tr>
<td><strong>Flexural Strength - Cross-Machine (psi)</strong></td>
<td>1,850</td>
<td>-</td>
</tr>
<tr>
<td><strong>Racking Strength - Vertical (plf)</strong></td>
<td>Ultimate Load, nail spacing 6 in. o.c.</td>
<td>1,083</td>
</tr>
<tr>
<td><strong>Racking Strength - Horizontal (plf)</strong></td>
<td>Ultimate Load, nail spacing 6 in. o.c.</td>
<td>959</td>
</tr>
<tr>
<td><strong>Compressive Strength - Machine (psi)</strong></td>
<td>1,440</td>
<td>-</td>
</tr>
<tr>
<td><strong>Compressive Strength - Cross-Machine (psi)</strong></td>
<td>1,030</td>
<td>-</td>
</tr>
<tr>
<td><strong>Elastic Modulus (Tension)</strong></td>
<td>390,000</td>
<td>352,000</td>
</tr>
<tr>
<td><strong>Surface Burning Characteristics (ASTM E84 / UL 723)</strong></td>
<td>0/0</td>
<td>0/0</td>
</tr>
<tr>
<td><strong>Combustibility (ASTM E136)</strong></td>
<td>Non-Combustible</td>
<td>Non-Combustible</td>
</tr>
<tr>
<td><strong>Fastener Pull Through (psi)</strong></td>
<td>300</td>
<td>&gt;300</td>
</tr>
<tr>
<td><strong>Fastener Lateral Capacity (psi)</strong></td>
<td>245</td>
<td>&gt;245</td>
</tr>
<tr>
<td><strong>Fastener Withdrawal Capacity (psi)</strong></td>
<td>155</td>
<td>&gt;155</td>
</tr>
<tr>
<td><strong>Contains Formaldehyde</strong></td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>Contains Crystalline Silica</strong></td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>Contains Fly Ash</strong></td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>Toxin Free</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Water Resistant</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Vapor Permeable</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Mold Resistance (ASTM G21)</strong></td>
<td>0/0/0</td>
<td>0/0/0</td>
</tr>
</tbody>
</table>

**Note:** Unless otherwise stated all values quoted in the above table are design values and have suitable safety factors applied.
Installing extreme\textsuperscript{green}® Sheathing

**General**
- extreme\textsuperscript{green}® sheathing must be installed in accordance with instructions contained in this installation guide.
- Install extreme\textsuperscript{green}® panels either vertically, (long dimension parallel to studs), or horizontally, (long dimension perpendicular to studs). extreme\textsuperscript{green}® panels are available in 8 ft., 9 ft. and 10 ft. lengths. The 10 ft. panels reduce seams when installed on the vertical axis and ensures all seams fall on a stud, thus improving racking strength resistance and thermal (draft) performance of the building envelope.
- When installing extreme\textsuperscript{green}® panels in fire-resistant assemblies, always ensure both vertical and horizontal seams are staggered for maximum fire-resistance and use appropriate panel orientation for specific fire-fire-resistant assemblies and shear wall applications.
- Framing width shall not be less than 1-1/2 in. (38mm) wide for wood framing and 1-1/4 in. (32mm) for steel framing.
- Framing members shall not vary more than 1/8 in. (3mm) from the plane of the faces of adjacent framing.
- Install extreme\textsuperscript{green}® sheathing with joints staggered.
- extreme\textsuperscript{green}® sheathing shall be properly flashed at openings and preferably located so that no joint will align with the edge of an opening. Ends and edges of extreme\textsuperscript{green}® sheathing should fit tightly.
- extreme\textsuperscript{green}® sheathing shall not be installed less than 8 in. (203mm) from exposed earth unless an approved method of protection against termites and decay is approved by the local building official.
- extreme\textsuperscript{green}® sheathing used in an exterior application must be protected by a Code compliant and/or approved water resistive barrier. The water resistive barrier shall be attached with flashing in such a manner as to provide a continuous water-resistive barrier behind the exterior wall veneer. The exterior facing of the panel shall be covered with weather protection as required by the adopted building code. Other approved materials.
- When installing siding or cladding over extreme\textsuperscript{green} sheathing, a suitably designed rain screen shall be installed to ensure breathability between the exterior siding/cladding and extreme\textsuperscript{green}® sheathing.

**Screws**
- **Install fasteners straight and perpendicular to panel and framing.**
- All screws should be spaced a maximum of 6 in. o.c. on the perimeter and 8 in. o.c. in the field for 1/2 in. and 5/8 in. skinned non load bearing walls.
- All screws should be spaced a maximum of 6 in. o.c. on the perimeter and 6 in. o.c. in the field for 1/2 in. and 5/8 in. skinned load bearing walls.
- Follow UL and ASTM Listing Report instructions for fire-resistant assemblies.
- Fasteners should be spaced 1/2 in. from all edges and no closer than 2 in. from a corner.
- Countersink screws just below the surface of the board. Do not overdrive screws.
- Min. 2 in. (50.8mm) screws to be used when attaching 1/2 in. (12mm) and 5/8 in. (16mm) extreme\textsuperscript{green}® panels to wood framing.
- Min. 1-5/8 in. (41.28mm) fasteners to be used when attaching 1/2 in. (12mm) and 5/8 in. (16mm) extreme\textsuperscript{green}® panels to steel framing.

**Nails**
- **Drive nails in straight and perpendicular to panel and framing.**
- Seat nails so head is countersunk in a shallow dimple formed by final blow of the hammer.
- Nail center of panel first and perimeter last.
- Nails should be spaced a maximum of 6 in. o.c. on walls.
- Min. 2 in. (50.8mm) Ring Shank nails to be used when attaching 1/2 in. (12mm) and 5/8 in. (16mm) extreme\textsuperscript{green}® panels to wood framing.

**Adhesive**
- Where adhesive is called for, ensure the proper adhesive is selected for the job.
- Framing must be clean and free from oil, dirt, and contamination.
- Adhesive must be applied in accordance with the manufacturer's instructions.
- Screws or nails must be used in addition to adhesive.

**Water & Air Resistive Barriers**
- Code requires the use of water and air resistive barriers on most building envelopes. In most cases, these barriers are applied over the exterior sheathing.
- Most recognized types of water and air resistive barriers adhere to extreme\textsuperscript{green}® sheathing better than other building materials, due to the smooth exterior surface of the panel, which delivers secure long lasting adhesion. Always ensure that extreme\textsuperscript{green}® sheathing is installed with the smooth side facing out, with the rough side of the panel facing the studs.
- Before applying any water or air resistive barrier that relies on adhesion to its substrate and in order to produce the best possible adhesion and longevity, ensure that all panel surfaces are dry, clean, sound and free of any dust or dirt left over from cutting, sanding or general construction site activities, including oil and grease.
Typical water and air resistive barriers include, but are not limited to:
- Self-adhered sheet materials.
- Fluid applied membranes.
- Spray polyurethane foam, (medium density closed cell).
- Mechanically attached flexible sheet, (includes #15 asphalt felt and synthetic wraps).
- Boardstock air barrier – rigid foam core

For a list of air barrier materials, accessories and components, see the Air Barrier Association of America (ABAA).
Website: www.airbarrier.org.

Where joint protection is required or desired, three methods may be used:

**Method 1** - Apply minimum 3/8 in. (9mm) bead of elastomeric sealant to joints and trowel to provide a layer approximately 2 in. (51 mm) wide by 1/16 in. (2mm) thick spanning the joint. Use backer rod for openings larger than 1/8 in. (3mm).

**Method 2** - Apply glass mesh joint tape to all joints, overlapping at intersections by the width of the tape. Apply approximately 3/8 in. (9mm) bead of caulk along the joint. Embed the caulk into the entire surface of the tape with a trowel. Use backer rod for openings larger than 1/8 in. (3mm). Follow manufacturer’s installation recommendations for use with extremegreen® sheathing, and design authority specifications.

**Method 3** - Apply a suitable code complaint waterproof tape to all joints taking care to ensure that wherever tape is applied the source of the panel is free of any dirt, dust, or grease.

**Note:** Consult with local building code, design professional, owner or cladding manufacturer for water-resistive barrier requirements and compatibility with the wall cladding.
ASTM E119 / UL 263: 1 Hour Fire-Resistant Assembly
To Metal Framing - Non-Load Bearing

- Steel framing to be constructed using CEMCO 362VS125-20 (0.0205 in.), or equivalent to conventional 25 gauge 3-5/8 in. non-structural galvanized steel studs spaced at maximum 24 in. o.c.
- Steel studs to be installed into 0.0205 in. or equivalent to 25 gauge track top and bottom of wall.
- Fasten #8 x 1/2 in. long lath head self-drilling screws top and bottom, where the studs meet the track to temporarily secure studs.
- Install additional blocking at all horizontal board joints using CEMCO 362VS125-20 (0.0205 in.), or equivalent to conventional 25 gauge 3-5/8 in.
- Attach galvanized steel studs with 16 gauge 2 in. x 2 in. galvanized steel angle at each end with two #8 x 1/2 in. long lath head self-drilling screws.
- 1/2 in. extremegreen® panels to be fastened horizontally with long edge perpendicular to studs on the side of the stud with long lath head self-drilling screws using #8 x 1-5/8 in. Simpson Strong-Tie® self drilling Sheathing-to-CFS screws, or equivalent.
- Screws should be spaced a maximum of 6 in. o.c. on the perimeter and 8 in. o.c. in the field.
- Stud cavities should be friction-fitted with 3 in. x 24 in. x 48 in. Roxul® mineral wool (min. 2.8 lb density), or equivalent.
- Ensure mineral wool is fitted tightly and snugly between the studs.
- Fill all joints, seams and screw heads with extremegreen® Fire-Set™ 60 fire-resistant joint setting compound, or equivalent, then apply FibaFuse™ tape while compound is still wet, then smear and smooth.
- Allow compound to dry, then gently sand until smooth and flush with the surface of the board.
- Insert a generous layer of compound, and feather out approximately 6 in. from each joint.
- Allow compound to dry, then gently sand until smooth.
- Apply a second generous layer of compound and repeat per first application. Do not over-sand.
- Allow extremegreen® Fire-Set™ 60 fire-resistant joint setting compound to dry completely before applying primer.

Key:

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3-5/8 in. 25 Gauge Steel Studs Spaced Max. 24 in. o.c.</td>
</tr>
<tr>
<td>2</td>
<td>1/2 in. (12mm) extremegreen® Sheathing</td>
</tr>
<tr>
<td>3</td>
<td>Min. 2.8 lb Mineral Wool</td>
</tr>
<tr>
<td>4</td>
<td>1/2 in. (12mm) extremegreen® Sheathing</td>
</tr>
</tbody>
</table>

Acoustical Performance: STC 52
ASTM E119 / UL 263: 2 Hour Fire-Resistant Assembly

To Metal Framing - Non-Load Bearing

- Steel framing to be constructed using structural 20 gauge 3-5/8 in. galvanized steel studs spaced at maximum 24 in. o.c.
- Steel studs to be installed into structural 20 gauge track top and bottom.
- Fasten #8 x 1/2 in. long lath head self-drilling screws top and bottom, where the studs meet the track.
- Attach a 2 in. wide strip of 1/2 in. extreme green® panel to all steel studs and steel track.
- Fasten the 2 in. strips of 1/2 in. extreme green® panel with #10 x 1-5/8 in. Simpson Strong-Tie® CBSDQ214S self-drilling Sheathing-to-CFS screws, or equivalent.
- Ensure 2 in. extreme green® panel strips are fastened to studs and tracks with screws spaced 2 in. from each end.
- 1/2 in. extreme green® panels to be fastened vertically with the long edge parallel to studs using #10 x 1-5/8 in. Simpson Strong-Tie® CBSDQ214S self-drilling Sheathing-to-CFS screws, or equivalent.
- Fasteners should be spaced 1/2 in. from all edges and no closer than 2 in. from a corner.
- When one side of the wall assembly has been sheathed, remove long lath head self-drilling screws, so there is no bulging at the top, bottom, and corners of the wall.
- Sheath the other side of the wall when long lath head self-drilling screws have been removed and insulation has been properly installed.
- All vertical and horizontal seams must be staggered.
- Screws should be spaced a maximum of 6 in. o.c. on the perimeter and 8 in. o.c. in the field.
- Stud cavities should be friction-fitted with 4 in. x 24 in. x 48 in. Roxul® mineral wool (min. 2.8 lb density), or equivalent.
- Ensure mineral wool is fitted tightly and snugly between the studs.
- Fill all joints, seams and screw heads with extreme green® Fire-Set™ 60 fire-resistant joint setting compound, or equivalent, then apply FibaFuse™ tape, or equivalent, while compound is still wet, then smear and smooth.
- Allow compound to dry, then gently sand until smooth and flush with the surface of the board.
- Apply a generous layer of compound and feather out approximately 6 in. from each joint.
- Allow compound to dry, then gently sand until smooth.
- Apply a second generous layer of compound and repeat per first application. Do not over-sand.
- Allow extreme green® Fire-Set™ 60 fire-resistant joint setting compound to dry completely before applying primer or paint.

Key:

1  1/2 in. x 2 in. extreme green® Furring Strips
2  1/2 in. (12mm) extreme green® Sheathing
3  Min. 2.8 lb Mineral Wool
4  1/2 in. (12mm) extreme green® Sheathing
5  3-5/8 in. 25 Gauge Steel Studs Spaced Max. 24 in. o.c.

Acoustical Performance: STC >52
UL 263 Design No. UL 069: 2 Hour Fire-Resistant Assembly

To Wood Framing - Load Bearing

- Wood framing to be constructed using nominal 2 in x 6 in. #2 KD Southern Yellow Pine, or equivalent, with single bottom-plates, double top-plates and studs spaced at maximum 16 in. o.c.
- Studs, bottom-plates and top-plates to be fastened using minimum 3 in. 8d common nails.
- 5/8 in. extreme green® panels to be fastened to framing using 12d 3-1/4 in. Ring Shank nails, or equivalent.
- Nails should be spaced 1/2 in. from all edges and no closer than 2 in. from a corner.
- Nails should be spaced a maximum of 6 in. o.c. on the perimeter and 8 in. o.c. in the field.
- All vertical and horizontal seams must be staggered.
- Stud cavities should be friction-fitted with 5-1/2 in. x 15-1/4 in. x 47 in. Roxul® mineral wool (min. 2.8lb density), or equivalent.
- Ensure mineral wool is fitted tightly and snugly between the studs.
- 5/8 in. extreme green® panels should be fastened vertically with the long edge parallel to studs using 12d 3-1/4 in. Ring Shank nails, or equivalent.
- Fill all joints, seams and screw heads with extreme green® Fire-Set™ 60 fire-resistant joint setting compound, or equivalent, then apply FibaFuse™ tape, or equivalent, while mud is still wet, then smear and smooth.
- Allow compound to dry, then gently sand until smooth and flush with the surface of the board.
- Apply a generous layer of compound and feather out approximately 6 in. from each joint.
- Allow compound to dry, then gently sand until smooth.
- Apply a second generous layer of compound and repeat per first application. Do not over-sand.
- Allow extreme green® Fire-Set™ 60 fire-resistant joint setting compound to dry completely before applying primer or paint.

Key:

1 5/8 in. (16mm) extreme green® Sheathing
2 2 in. x 6 in. #2 KD SYP Dimensional Lumber
3 Min. 2.8 lb Mineral Wool
4 5/8 in. (16mm) extreme green® Sheathing

Acoustical Performance: STC 37
ASTM E119 / UL 263: 2 Hour Fire-Resistant Assembly

To Wood Framing - Non-Load Bearing

- Wood framing to be constructed using nominal 2 in. x 6 in. #2 KD Southern Yellow Pine, or equivalent, with single bottom-plates, double top-plates and studs spaced at maximum 16 in. o.c.
- Studs, bottom-plates and top-plates to be fastened using minimum 3 in. 8d common nails.
- Attach a 2 in wide strip of extreme® green panel to all studs and blocking and a 3-1/2 in. strip to double top-plate.
- Fasten the 2 in. strips of extreme® green panel with #8 x 2-1/2 in. Simpson Strong-Tie® WSNTLG212S yellow zinc coated wood screws, or equivalent.
- Ensure 2 in. extreme® green panel strips are tacked to studs with screws or nails and spaced 2 in. from each end.
- 1/2 in. extreme® green panels to be fastened to strips and framing using #8 x 2-1/2 in. Simpson Strong-Tie® WSNTLG212S yellow zinc coated wood screws, or equivalent.
- Fasteners should be spaced 1/2 in. from all edges and no closer than 2 in. from a corner.
- Screws should be spaced a maximum of 6 in. o.c. on the perimeter and 8 in. o.c. in the field.
- All vertical and horizontal seams must be staggered.
- Stud cavities should be friction-fitted with 5-1/2 in. x 15-1/4 in. x 47 in. Roxul® mineral wool (min. 2.8lb density), or equivalent.
- Ensure mineral wool is fitted tightly and snugly between the studs.
- Ensure there is a 1/2 in. air gap between the mineral wool insulation and rear side of the board.
- 1/2 in. extreme® green panels should be fastened vertically with the long edge parallel to studs using #8 x 2-1/2 in. Simpson Strong-Tie® WSNTLG212S yellow zinc coated wood screws, or equivalent.
- Fill all joints, seams and screw heads with extreme® green Fire-Set™ 60 fire-resistant joint setting compound, or equivalent, then apply Fibafuse™ tape, or equivalent, while mud is still wet, then smear and smooth.
- Allow compound to dry, then gently sand until smooth and flush with the surface of the board.
- Apply a generous layer of compound and feather out approximately 6 in. from each joint.
- Allow compound to dry, then gently sand until smooth.
- Apply a second generous layer of compound and repeat per first application. Do not over-sand.
- Allow extreme® green Fire-Set™ 60 fire-resistant joint setting compound to dry completely before applying primer or paint.

Key:

1 1/2 in. (12mm) extreme® green Sheathing
2 2 in. x 6 in. #2 KD SYP Dimensional Lumber
3 Min. 2.8 lb Mineral Wool
4 1/2 in. (12mm) extreme® green Sheathing
5 1/2 in. x 2 in. extreme® green Furring Strips

Acoustical Performance: STC >37
Installing Cladding Over extremegreen® Sheathing

Most conventional exterior sidings, claddings and wall coverings, including vinyl, composition, metal, stone, brick and wood may be applied over extremegreen® sheathing.

The below illustrations are not intended for design or specification purposes and serve as a guide only.

Vinyl, Metal, Wood or Fiber Cement Siding

extremegreen® sheathing can be used in applications such as under wood or plywood panel siding and other horizontal siding applications.

Due to the unsurpassed fastener holding capacity of extremegreen® sheathing, it is not essential for a nail or screw to be attached to wood or steel framing. This increases installation time on site exponentially and reduces the chance of missed nails or screws, thus reducing call backs and potential claims.

A water resistive/air barrier should always be applied as required by building code or design authority.

Best practices also dictate that a rain screen or furring strips should be applied between the water resistive/air barrier and the final cladding, thus allowing the wall assembly to breathe and reducing the build up up moisture in between the cladding and the wall assembly.

Key:

1. extremegreen® Sheathing
2. Water Resistive / Air Barrier
3. Rain Screen / Furring Strips
4. External Cladding or Siding

Brick Cavity Wall

Masonry or stone veneer can be applied over extremegreen® sheathing just as it would be over any other type of sheathing.

Attach masonry ties securely through the extremegreen® sheathing and into the steel or wood framing. It is not essential, but preferred that the framing is used to secure the ties. Due to the unsurpassed fastener holding capacity of extremegreen® sheathing it will hold the ties. Find the framing where possible for added structural integrity. Space the ties as required by masonry courses.

A water resistive/air barrier should always be applied as required by building code or design authority.

Best practices also dictate that a rain screen or furring strips should be applied between the water resistive/air barrier and the final cladding, thus allowing the wall assembly to breathe and reducing the build up up moisture in between the cladding and the wall assembly.

Key:

1. extremegreen® Sheathing
2. Water Resistive / Air Barrier
3. Rain Screen / Furring Strips
4. Brick or Stone Veneer Masonry
Conventional Stucco

Conventional stucco systems may be applied over extremegreen® sheathing using paper-paper-tackled metal lath or two layers of building paper and metal lath. Metal lath must be mechanically fastened into the extremegreen sheathing and into the steel or wood framing where possible.

Install the stucco system in accordance with the manufacturer’s instructions and local building code requirements.

A water resistive/air barrier should always be applied as required by building code or design authority.

Key:

1. extremegreen® Sheathing
2. Water Resistive / Air Barrier
3. Paper-Backed Metal Lath
4. Conventional Stucco System

Exterior Insulation and Finish Systems (EIFS)

extremegreen® sheathing is a perfect substrate for adhesive or mechanical application of expanded polystyrene (EPS) or extruded polystyrene insulation (XPS) in IFS applications and can be used in all climate zones.

extremegreen® sheathing has been approved by multiple EIFS manufacturers and suppliers and offers superior bind and adhesion compared to other sheathing products.

In addition to its excellent adhesion properties, extremegreen® sheathing is incredibly dimensionally stable and resistant to mold and mildew. This makes it an ideal substrate for EIFS.

Always consult and install any EIFS system in accordance with the manufacturer’s instructions and local building code requirements.

Key:

1. extremegreen® Sheathing
2. Water Resistive / Air Barrier
3. Polystyrene Insulation
4. Reinforcing Mesh Embedded in Base Coat
5. Finish Coat
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Pricing + Availability:

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