REVOLUTIONARY "SURE-BOARD"® SERIES 200S IS THE NON-COMBUSTIBLE FLOOR/ROOF SHEATHING THAT WILL IMPROVE THE FIRE RESISTANCE OF YOUR BUILDING USING STANDARD CONSTRUCTION METHODS AND PRACTICES.

SURE-BOARD® Series 200S
For Floor/Roof Non-Combustible Sheathing
U.S. PATENT #7,770,346
IAPMO ES ER-185  LARR #26040
DSA IR A-5  LA FAB #2109

Savings to Contractor:
• Cost for labor and materials is approximately 20% less than any existing non-combustible sheathing currently available today.
• Panel size is 48” x 48” dimension and can be laid in place by one installer.

Additional Certifications:
Sound:
• Improves Sound/Impact Results on Typical CFS Framed Assembly.

Fire:
• UL Listed Fire Rating using Single Layer of 5/8” Type C Gypsum Test Under ASTM E119 with Applied Load (Assembly yielded over 81 minutes protection.)

Sure-Board® Series 200S Non-Combustible Sheathing will improve the performance of your CFS structure, while reducing the construction costs to you. **Sure-Board® is a clear winner.**
**SURE-BOARD® Series 200S Sheathing**

### Table 1: Nominal Design Strengths for Sure-Board® Series 200S Structural Panels

<table>
<thead>
<tr>
<th>Span Rating, Inches</th>
<th>Nominal Strength, Psf</th>
<th>Allowable Strength, Asd (Psf)</th>
<th>Factored Resistance, Lrfd (Psf)</th>
<th>Allowable Concentrated Load, Lbf</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 Maximum</td>
<td>435</td>
<td>215</td>
<td>260</td>
<td>2,000</td>
</tr>
</tbody>
</table>

For St: 1 inch = 25.4 mm, 1 psf = 47.88 Pa, 1 lbf = 4.448 N

1 Maximum allowable strength for panels supported at 24 inches on center is 100 Psf for a deflection limit of L/360.
2 Panels are capable of supporting an allowable concentrated load of 2,000 lbs. within the deflection limit of L/360 on properly designed and constructed framing members.
3 Series 200S panels installed for floors shall include minimum No. 20 gauge (0.033 inch) thick steel sheets.
4 Series 200S panels installed for roofs shall include minimum No. 20 gauge (0.033 inch) thick steel sheets.

### Table 2: Screw Spacing for Blocked Horizontal Diaphragms, Lbs/ft

<table>
<thead>
<tr>
<th>Screw Spacing, Inches</th>
<th>Nominal Strength, Rn (In.)</th>
<th>Allowable Strength, Asd (In.)</th>
<th>Factored Resistance, Lrfd (In.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Edge</td>
<td>Seismic</td>
<td>Wind/All Others</td>
<td>Seismic</td>
</tr>
<tr>
<td>2</td>
<td>6</td>
<td>2,770</td>
<td>1,110</td>
</tr>
<tr>
<td>3</td>
<td>6</td>
<td>2,730</td>
<td>1,090</td>
</tr>
<tr>
<td>4</td>
<td>6</td>
<td>1,980</td>
<td>790</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
<td>1,320</td>
<td>530</td>
</tr>
</tbody>
</table>

For St: 1 inch = 25.4 mm, 1 lbf/ft = 14.5939 N/mm.

The equation Eq. (1) within the IAPMO Evaluation Report ER-185 shall be used to estimate the mid-span deflection of Sure-Board’s MgO and fiber-cement simple span diaphragms:

### Table 3: Allowable Wind Uplift Loads for Sure-Board® Series 200S Structural Panels

<table>
<thead>
<tr>
<th>CFS Specifications</th>
<th>Allowable Wind Uplift, (Asd) (Psf)</th>
<th>Allowable Wind Uplift, (Asd) (Psf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 (Inch) (O.C.)</td>
<td>No. 6</td>
<td>No. 8</td>
</tr>
<tr>
<td>Screw Size</td>
<td>Screw Size</td>
<td></td>
</tr>
</tbody>
</table>

Designated Thickness, In. Design Thickness, In. Fy, Ksi Fu, Ksi

| No. 6 | 33 | 0.0346 | 33 | 45 | 30.5 | 36.2 | 41.9 | 47.6 | 45.8 | 54.3 | 62.9 | 71.5 |
| No. 8 | 43 | 0.0451 | 33 | 45 | 39.5 | 47.2 | 54.6 | 62.1 | 59.3 | 70.7 | 81.9 | 93.2 |
| No. 10 | 54 | 0.0566 | 50 | 65 | 63.5 | 63.5 | 79.4 | 79.4 | 95.3 | 95.3 | 119.1 | 119.1 |
| No. 12 | 68 | 0.0713 | 50 | 65 | 63.5 | 63.5 | 79.4 | 79.4 | 95.3 | 95.3 | 119.1 | 119.1 |
| 97 | 1,017 | 50 | 65 | 63.5 | 63.5 | 79.4 | 79.4 | 95.3 | 95.3 | 119.1 | 119.1 |
| 118 | 1,242 | 50 | 65 | 63.5 | 63.5 | 79.4 | 79.4 | 95.3 | 95.3 | 119.1 | 119.1 |

For St: 1 inch = 25.4 mm, 1 psf = 47.88 Pa, 1 psi = 6.89 kPa

1 Allowable wind uplift based on screw spacings of 6 inches on center maximum at all panel edges and 12 inches on center maximum in the field/interior of the panels.
2 If field/interior spacing is reduced from 12 inches on center, wind uplift may be proportionally increased.

SURE-BOARD® Series 200S FLOOR/ROOF Sheathing Information Table

Sure-Board® Series 200S SERIES 200S-F FLOOR SHEATHING:

Thick Fiber Cement Sheathing is laminated to 20 gauge (0.033 inch / 0.838 mm) steel sheet for use as 3/4” / 1/2” thick fiber cement panels listed under ASTM C1325 and others. The steel sheet is 20 gauge (0.033 inch / 0.838 mm) minimum base-metal thickness complying with ASTM A653 CS/GRAD 33 minimum, and ASTM A1003/A1003M. The sheets are provided with a G-40 hot dipped galvanized coating conforming to ASTM A924.

SURE-BOARD® SERIES 200S-P ROOF SHEATHING:

Thick Fiber Cement Sheathing is laminated to 20 gauge (0.033 inch / 0.838 mm) steel sheet for use as typical floor sheathing with framing members at 24” o.c. maximum spacing. Note: 16” o.c. maximum where topping is not applied.

FASTENERS SPECIFICATIONS:

Fasteners to attach the Sure-Board® Series 200S panels to CFS members are self drilling/self tapping pilot point bugle head screws, #8 x 1 5/8” long winged driller by grabber super drive LOX drive screws or equal. Screws must have cutting nubs under screw head to seat into fiber cement sheathing properly.

DESIGN OF FLOOR/ROOF SYSTEM:

All floor and roof members and the installation of these members are responsibility of EOR and contractors.

Visit www.sureboard.com and www.floorsheathing.com

Technical Support:

support@sureboard.com
Toll Free: (866) 469-7432

www.cemcosteel.com

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DSA IR A-5

STEEL Framing

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