



### INTERMAT

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### SURE-BOARD® SERIES 200S STRUCTURAL PANELS

#### CSI Sections:

- 05 10 00 Structural Metal Framing
- 06 12 00 Structural Panels
- 06 12 13 Cementitious Reinforced Panels
- 06 16 23 Subflooring
- 06 16 63 Cementitious Sheathing
- 07 41 43 Composite Roof Panels
- 07 44 33 Metal Faced Panels

#### 1.0 RECOGNITION

Intermat Sure-Board® Series 200S Structural Panels described in this report were evaluated as floor and roof sheathing in compliance with Chapters 15 and 23 of the IBC and Chapters R5 and R8 of the IRC. The structural and non-combustibility properties of the Series 200S Structural Panels were evaluated for compliance with the following codes:

- 2021, 2018, 2015, 2012, 2009, and 2006 International Building Code® (IBC)
- 2021, 2018, 2015, 2012, 2009, and 2006 International Residential Code® (IRC)
- 2022 California Building Code® (CBC) – Supplement attached
- 2022 California Residential Code® (CRC) – Supplement attached
- 2023 Los Angeles Building Code (LABC) – Supplement attached
- 2023 Los Angeles Residential Code (LARC) – Supplement attached
- IAPMO Uniform ES EC-012

#### 2.0 LIMITATIONS

Use of Sure-Board® Series 200S Structural Panels recognized in this report is subject to the following limitations:

2.1 Plans and structural calculations shall be submitted to the building official demonstrating compliance with the provisions of this report and applicable code requirements. Construction documents shall be prepared by a registered design professional when required by the statutes of the jurisdiction where the project will be constructed.

2.2 Construction, design, and installation of panels shall be in conformance with this report and the manufacturer’s published installation guidelines. Where conflicts occur, the more restrictive shall prevail.

2.3 Use of Sure-Board® Series 200S Structural Panels in fire-resistance-rated assemblies is outside the scope of this report. Guidance for approval of fire-resistance in accordance with the IBC or IRC is provided in Section 3.0 of this report

2.4 Use of Sure-Board® Series 200S Structural Panels in sound-rated assemblies is outside the scope of this report.

2.5 The panels are manufactured by INTERMAT and licensed manufacturers at manufacturing facilities located in Costa Mesa, California; City of Industry, California; and East Chicago, Indiana.

#### 3.0 PRODUCT USE

Sure-Board® Series 200S Structural Panels are used as noncombustible floor and roof panels for support of vertical gravity loads, resistance to vertical (gravity and wind uplift) loads, and horizontal in-plane (wind and seismic) loads in buildings and other structures of cold-formed steel (CFS) light-frame construction. When used to resist horizontal in-plane (wind and seismic) loads, the panels function as the sheathing component of a horizontal diaphragm. The panels are alternatives to floor and roof sheathing complying with 2021, 2018, and 2015 IBC Sections 1507 and 2304.8; 2012, 2009, and 2006 IBC Sections 1507 and 2304.7; and IRC Sections R503 and R803. The panels may also be used where an engineered design is submitted in accordance with Section 301.1.3 of the IRC. When used to resist horizontal in-plane loads, the panels are alternatives to wood structural panel sheathing used in diaphragms complying with AISI S240 for resistance to wind and other in-plane loads and AISI S400 for resistance to seismic forces, as referenced in 2021 and 2018 IBC Sections 2211.1 and 2211.1.1; or AISI S213 as referenced in 2015, 2012, 2009, and 2006 IBC Section 2211.6. The Sure-Board® Series 200S Structural Panels may be used as a component of a fire-resistance-rated assembly where fire-resistance is demonstrated in accordance with IBC Section 703.2 or Section 703.3, or IRC Section R302 and approved by the building official.

#### 4.0 PRODUCT DESCRIPTION

Sure-Board® Series 200S Structural Panels are a composite panel of light gage sheet steel and noncombustible sheathing bonded by a water-based adhesive. Panels are fastened directly to roof and floor framing members of cold-formed steel light-frame construction with self-tapping screws. Panels are suitable for exposure to the exterior during construction, but shall be covered by finish flooring or roof coverings upon completion of construction. Panels are

The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safety, as applicable, in accordance with IBC Section 104.11. This document shall only be reproduced in its entirety.





available in widths of 48 inches (1219 mm) and standard lengths of 4 and 8 feet (1219 mm and 2438 mm).

#### 4.1 Documented Design Values

**4.1.1 Vertical (Gravity) Load Design:** Determination of applicable out-of-plane ASD or LRFD design loads for dead and live gravity loading shall be in accordance with Chapter 16 of the IBC and ASCE/SEI 7. Available strength and factored resistance for floor and roof sheathing to safely resist or support the design loads shall be determined in accordance with [Table 1](#) of this report. Values in [Table 1](#) of this report are for use on panels continuous over two or more spans.

**4.1.2 Horizontal (Wind and Seismic) Load Design:** Design values for the in-plane nominal strength of panels were established empirically. Allowable strength values (ASD) used a safety factor ( $\Omega$ ) of 2.5 for seismic loads and 2.0 for wind or other in-plane loads. Values for factored resistance (LRFD) used a resistance factor ( $\phi$ ) of 0.60 for seismic loads and 0.65 for wind and all other in-plane loads.

Determination of applicable in-plane design loads, such as wind or earthquake, shall be in accordance with Chapter 16 of the IBC and ASCE/SEI 7. Allowable strength or factored resistance for horizontal diaphragms to safely resist or support horizontal design loads shall be determined in accordance with [Table 2](#) of this report for panels constructed with the magnesium-oxide or fiber-cement boards noted in Section 4.4.1.2 of this report. Allowable strength values in [Table 2](#) of this report shall not be further increased for loads of short-term duration, such as wind or seismic. The diaphragm length and width shall be limited by one of the following: engineering mechanics; applied loads; shear capacity of the diaphragm; and diaphragm deflection limited by the requirements of ASCE/SEI 7 in Section 12.8.6 entitled, "Story Drift Determination"; or Section 12.12 entitled, "Drift and Deformation".

Supporting framing members directly connected to the panels shall be designed to limit deflection to no more than  $L/360$  for the total combination of loads applied. For horizontal diaphragms, the design professional shall verify that the framing members at the boundaries of the diaphragm have sufficient capacity to develop the required strength of the diaphragm, including but not limited to the prevention of compression failure in the rim track.

**4.1.3 Vertical Wind Uplift Design:** Determination of applicable design loads for wind uplift loads applied perpendicular to panels shall be in accordance with Chapter 16 of the IBC and ASCE/SEI 7. Allowable strengths, corresponding to joist spacings and screw placement to safely resist vertical wind uplift design loads, shall be determined in accordance with [Table 3](#) of this report.

**4.1.4 IRC:** Floors and roofs constructed in accordance with this report may be used in lieu of provisions in IRC Sections

R505 and R804, respectively. Steel framing shall be designed to resist all applicable loading conditions.

#### 4.2 Installation

Panels shall be placed with the long dimension perpendicular to framing members and with the steel side face in direct contact with the framing. Panels installed as floor or roof panels shall be continuous over two spans. Joints between panels shall be a maximum  $\frac{1}{8}$  inch (3.2 mm) wide. The spacing of framing members supporting the panels shall not exceed 24 inches (610 mm) on center.

Panel edges that are parallel to framing members shall be fastened to either main framing members or blocking of the same gage as the framing member, i.e., joist or rafter. Panel edges that are parallel to framing members shall be attached with a separate row of fasteners for each panel edge.

Panel edges that are perpendicular to framing members shall be attached to either a framing member, blocking, or to the extended steel sheet backing tab provided on the composite panel in the row below. When panel edges that are perpendicular to the framing members are attached to the backing tab, a single row of fasteners is sufficient for the fastening of both panel edges.

For diaphragm construction, the spacing of fasteners shall be in accordance with [Table 2](#) of this report for panel edges, and 6 inches (152 mm) on center for connection to framing members in the field. For wind uplift, the spacing of fasteners shall be in accordance with [Table 3](#) of this report. Fasteners attaching panels are installed in one operation through the panels into the framing. Fasteners shall be located at least  $\frac{3}{8}$  inch (9.5 mm) from the panel edges and driven flush with the surface of the noncombustible sheathing. The length of screw fasteners shall be sufficient to penetrate at least three exposed threads into framing members.

The diaphragm aspect ratio shall be limited to 4:1 for blocked diaphragms and 3:1 for unblocked diaphragms.

Panels located in roofs shall be covered with an approved roof covering complying with Chapter 15 of the IRC or Chapter 9 of the IRC.

**4.3 Special Inspections:** Periodic special inspections for wind or seismic resistance applicable to cold-formed steel light-framed construction shall be provided when the panels are components of a wind-force-resisting system or seismic-force-resisting system located in areas set forth in Chapter 17 of the IBC. Inspection requirements shall comply with IBC Section 1705.

#### 4.4 Material Information

**4.4.1 Sure-Board® Series 200S Structural Panels:** Sure-Board® Series 200S Structural Panels are composite products



consisting of steel sheets laminated to noncombustible boards with an adhesive.

**4.4.1.1 Panel Sheet Steel:** The sheet steel is No. 22 gage (0.027 inch / 0.686 mm) minimum base-metal thickness complying with ASTM A653 CS, Grade 33 minimum, and ASTM A1003/A1003M. The sheets are provided with a G40 hot-dipped galvanized coating conforming to ASTM A924.

**4.4.1.2 Panel Noncombustible Boards:** Noncombustible boards consist of either a fiber-cement board or a magnesium-oxide board, as shown in [Table 4](#) of this report.

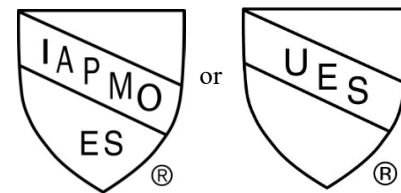
**4.4.1.3 Panel Adhesive:** The adhesive used to bond the sheet steel to the noncombustible sheathing is a synthetic-resin-latex, water-based adhesive in compliance with ASTM C916-79, Type II, and NFPA-90A. The adhesive is used in the manufacture of the Sure-Board® Series 200S Structural Panels under an approved quality control program.

**4.4.2 Fasteners:** Fasteners used to connect the Sure-Board® Series 200S Structural Panels to steel framing members ranging from 33 mils (0.83 mm/No. 20 nominal gage) to 118 mils (2.99 mm/No. 10 gage) thickness shall be self-drilling/self-tapping pilot point bugle head screws that are manufactured from steel wire conforming to ASTM A548, Grade 1013 to 1022. The screws shall be a minimum 0.138-inch-diameter (3.5 mm) (No. 6 gage) by minimum 1½-inch-long (41 mm), and shall have a minimum 0.3145-inch-diameter (8 mm) bugle heads. All screws shall have winged drill points that are at least ⅜ inch (9.5 mm) in length and comply with applicable provisions of SAE J78 and ASTM C954. For horizontal diaphragms, the screw sizes are limited to No. 8 (0.164 inch/4.2 mm diameter) and No. 10 (0.190 inch/4.9 mm diameter).

**4.4.3 Framing Support Members:** Framing members shall be galvanized cold-formed steel having a minimum thickness designation of 33 mils (0.83 mm/No. 20 nominal gage) and a maximum thickness designation of 118 mils (2.99 mm/No. 10 nominal gage). The flange width of framing members shall be at least 1½ inches (41 mm). Framing steel shall be Grade 33, Type H, conforming to ASTM A1003/A1003M, or Structural Grade 50, Type H, conforming to ASTM A653/A653 M and ASTM A1003/A1003M. The steel shall have a minimum G60 galvanized coating designation conforming to ASTM A653. For horizontal diaphragms, the framing member thicknesses are limited to a minimum of 33 mils (0.83 mm/No. 20 nominal gage) and a maximum of 118 mils (3.00 mm/No. 10 nominal gage). Where the thickness of a framing member is greater than 97 mils (2.46 mm/No. 12 nominal gage), a No. 10 (0.190 inch/4.9 mm diameter) screw shall be used.

## 5.0 IDENTIFICATION

Sure-Board® Series 200S Structural Panels are identified by a label located on the top right and bottom left corners of the metal facing. This permanent label includes the INTERMAT company name, product name, steel thickness, and this evaluation report number (IAPMO UES ER-185). The sheathing board exposed face has identification indicating the sheathing type (James Hardie Backer Board 500, Plycem, Armoroc, Magnum Board, or Exacor). Either IAPMO UES Mark of Conformity may also be used as follows:



IAPMO UES ER-185

## 6.0 SUBSTANTIATING DATA

**6.1** Data in accordance with the IAPMO-UES Evaluation Criteria for Composite Steel Sheet and Noncombustible Sheathing Panels (EC 012-2022), revised January 2022. Tests include diaphragm loading, vertical loading, and combustibility.

**6.2** Quality Manual

**6.3** Test reports are from laboratories in compliance with ISO/IEC 17025.

## 7.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research completed by IAPMO Uniform Evaluation Service on Sure-Board® Series 200S Structural Panels to assess conformance to the codes and standards shown in Section 1.0 of this report and serves as documentation of the product certification. The Sure-Board® Series 200S Structural Panels are produced at locations noted in Section 2.5 of this report under a quality control program with periodic inspections under the supervision of IAPMO UES.

For additional information about this evaluation report please visit [www.uniform-es.org](http://www.uniform-es.org) or email at us [info@uniform-es.org](mailto:info@uniform-es.org)



**TABLE 1**

**NOMINAL AND DESIGN VERTICAL (GRAVITY) LOAD STRENGTHS FOR SURE-BOARD® SERIES 200S STRUCTURAL PANELS -- FLOOR AND ROOF SHEATHING CONTINUOUS OVER TWO OR MORE SPANS**

Span Rating, (inches) (o.c.)	Nominal Strength (psf)	Allowable Strength (ASD) (psf)	Factored Resistance (LFRD) (psf)	Allowable Concentrated Load, LBF
24 maximum	435	215	260	2,000

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

Notes

1. The 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 gage (0.033 inch) thick steel sheets. Series 200S panels installed for roofs shall include minimum No. 22 gage (0.027 inch) thick steel sheets.

**TABLE 2**

**NOMINAL SHEAR STRENGTH FOR BLOCKED HORIZONTAL DIAPHRAGMS, LBS/FT SURE-BOARD® SERIES 200S STRUCTURAL PANELS<sup>1,2</sup>**

Screw Spacing, inches		Nominal Strength, (R <sub>n</sub> )	Allowable Strength, (ASD)		Factored Resistance, (LFRD)	
Panel Edge	Field		Seismic	Wind/All Others	Seismic	Wind/All Others
2	6	2,770	1,110	1,380	1,660	1,800
3	6	2,730	1,090	1,360	1,640	1,770
4	6	1,980	790	990	1,190	1,290
6	6	1,320	530	660	790	860

For SI: 1 inch = 25.4 mm, 1 lbf/ft = 14.6N/m

<sup>1</sup> Support and blocking of panels shall be in accordance with Section 4.2, Paragraph 3 of this report.

<sup>2</sup> The equation Eq. (1) shall be used to estimate the mid-span deflection of Sure-Board's MgO and fiber-cement simple span diaphragms:

$$\Delta_D = \eta_b \Delta_b + \eta_s \Delta_s + \eta_{con} \Delta_{con} + \eta_{cs} \Delta_{cs} \quad \text{Eq. (1)}$$

Where, (continued on next page)

$\Delta_D$  = mid-span diaphragm deflection, in. (mm)

$\Delta_b$  = deflection from bending, in. (mm)

$$= \omega_1^4 \cdot \frac{v \cdot L^3}{E_s \cdot A_c \cdot b}$$

$\Delta_s$  = deflection from sheathing shear, in. (mm)

$$= \omega_2 \cdot \omega_3 \cdot \frac{v \cdot L}{G \cdot t}$$

$\Delta_{con}$  = deflection from sheathing-to-framing connection deformation, in. (mm)

$$= \omega_2^{1.25} \cdot \omega_3 \cdot \left( \frac{v}{\alpha \frac{\beta}{\beta_f}} \right)^2$$

$\Delta_{cs}$  = deflection from chord splice deformation, in. (mm)

$$= \frac{\sum_1^n \Delta_{ci} \cdot X_i}{b}$$

$A_c$  = gross cross-sectional area of the chord members, in. (mm)

$b$  = depth of the diaphragm (parallel to load direction), in. (mm)

$d$  = diameter of the fastener, in. (used in  $\beta_f$  term)

$d_s$  = diameter of a No. 8 (for CFS) fastener, in. (mm) (used in  $\beta_f$  term)

$E_s$  = modulus of elasticity of steel, 29,500,000 psi (203,400 MPa)

$G$  = shear modulus of steel, 11,300,000 psi (77,910 Mpa)

$L$  = width of the diaphragm (perpendicular to load direction), in. (mm)

$n$  = number of chord splices

$s$  = fastener spacing at panel edges, in. (mm)

$t$  = design thickness of the sheet steel in the structural panel, in. (mm)



$t_{joist}$  = joist design thickness, in. (mm)

$v$  = diaphragm shear, lb/in. (N/mm)

$X_i$  = distance from the  $i$ th chord splice to the nearest support, in. (mm)

$\alpha$  = light framing factor: 2.0 for cold-formed steel framing

$\beta$  = basic sheathing inelastic deflection parameter, lb/in<sup>3/2</sup> (N/mm<sup>3/2</sup>) (62.5 lb/in<sup>3/2</sup> for MgO; 49.4 lb/in<sup>3/2</sup> for HB500; 70.9 lb/in<sup>3/2</sup> for Plycem and Armoroc)

$\beta_f$  = pin connection deformation factor

$$= 0.8(d_s/d)$$

$\Delta_{ci}$  = Deformation value associated with “ $i$ th” chord splice, in. (mm)

$\eta$  = diaphragm loading and support condition factor

Diaphragm Load and Support Condition	Diaphragm Load Support Condition Factor, $\eta$			
	$\eta_b$	$\eta_s$	$\eta_{con}$	$\eta_{cs}$
Simply Supported, Uniformly Loaded	0.625	1.0	1.0	0.5
Cantilever, Uniformly Loaded	3.0	2.0	2.0	1.0
Cantilever, End Loaded	8.0	4.0	4.0	1.0

$\omega_1$  = adjustment factor for aspect ratios greater than 2:1

$$= 0 \text{ for } L/b \leq 2.0$$

$$= 1 - 2/(L/b) \text{ when } L/b > 2.0$$

$\omega_2$  = adjustment factor for fastener spacing greater than 6 in. (152 mm)

$$= s/6, \text{ where } s = \text{actual spacing of fasteners}$$

$\omega_3$  = adjustment factor for framing design thickness different from 0.0346 in. (0.8788 mm)

$$= 0.0346/t_{joist} \text{ (0.8788}/t_{joist})$$

**TABLE 3**  
**ALLOWABLE WIND UPLIFT LOADS FOR**  
**SURE-BOARD® SERIES 200S STRUCTURAL PANELS<sup>1,2</sup>**

CFS Specifications				Allowable Wind Uplift (ASD) (psf)				Allowable Wind Uplift (ASD) (psf)			
				24 (inch) (o.c), Joist Spacing				16 (inch) (o.c) Joist Spacing			
				Screw Size				Screw Size			
Designated Thickness, mils	Design Thickness, in.	F <sub>y</sub> ksi	F <sub>u</sub> ksi	No. 6	No. 8	No. 10	No. 12	No. 6	No. 8	No. 10	No. 12
33	0.0346	33	45	30.5	36.2	41.9	47.6	45.8	54.3	62.9	71.5
43	0.0451	33	45	39.5	47.2	54.6	62.1	59.3	70.7	81.9	93.2
54	0.0566	50	65	63.5	63.5	79.4	79.4	95.3	95.3	119.1	119.1
68	0.0713	50	65	63.5	63.5	79.4	79.4	95.3	95.3	119.1	119.1
97	0.1017	50	65	63.5	63.5	79.4	79.4	95.3	95.3	119.1	119.1
118	0.1242	50	65	63.5	63.5	79.4	79.4	95.3	95.3	119.1	119.1

For SI: 1 inch = 25.4 mm, 1 lbf = 4.4 N, 1 psf = 47.9 Pa, 1 psi = 6.89 kPa

<sup>1</sup> 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.

<sup>2</sup> If field/interior spacing is reduced from 12 inches on center, wind uplift may be proportionally increased.



**TABLE 4  
PANEL NONCOMBUSTIBLE BOARDS<sup>1</sup>**

Board Name	Minimum board thickness (inches)	Surface Burning Characteristics <sup>2</sup>		Description
		Flame Spread Index	Smoke-developed index	
James Hardie Backer Board 500	0.42	0	5	Cellulose fiber-reinforced fiber-cement board
Plycem	0.55	0	5	
Huber Exacor <sup>3</sup>	0.50	5	5	Magnesium oxide board reinforced with fiberglass mesh on both faces

For SI: 1 inch = 25.4 mm

<sup>1</sup> Tested in accordance with ASTM E136-24 and in accordance with 2021 IBC Section 703.3 or 2018, 2015, 2012, 2009, and 2006 IBC Section 703.5. In accordance with 2021, 2018, 2015, 2012, 2009, and 2006 IBC Section 603.20 and either 2021 IBC Section 703.2.1.2 or 2018, 2015, 2012, 2009, and 2006 Section 703.2.2, any component material or admixture is permitted in assemblies if the resulting tested assembly meets the fire-resistance test requirements of this IBC.

<sup>2</sup> Tested in accordance with ASTM E84.

<sup>3</sup> Huber Exacor shall comply with ASTM C1186, Standard Specification for Flat Fiber-Cement Sheets as Type A or B, Grade 1 or better, based on testing in accordance with ASTM C1185, Standard Test Methods for Sampling and Testing Non-Asbestos Fiber-Cement Flat Sheet, Roofing and Siding Shingles, and Clapboards.



## CALIFORNIA SUPPLEMENT

### INTERMAT

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### STRUCTURAL PANELS

#### CSI Sections:

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#### 1.0 RECOGNITION

The Sure-Board® Series 200S Structural Panels, as evaluated and represented in IAPMO UES Evaluation Report ER-185, and with changes as noted in this supplement, are satisfactory alternatives for use in buildings built under the following codes (and regulations):

- 2022 California Building Code® (CBC)
- 2022 California Residential Code® (CRC)

#### 2.0 LIMITATIONS

Use of Sure-Board® Series 200S Structural Panels recognized in this report is subject to the following limitations:

**2.1** The Sure-Board® Series 200S Structural Panels shall comply with the provisions in IAPMO UES ER-185 applicable to the 2021 IBC or IRC for use under the 2022 CBC or 2022 CRC, or the 2018 IBC or 2018 IRC for use under the 2019 CBC or 2019 CRC.

**2.2** The structural panels comply with or are alternatives to systems described in Sections 1507, 2304.8, and 2211 of the California Building Code (CBC) and Sections R503 and R803 of the California Residential Code® (CRC).

**2.3** For applications regulated by DSA or HCAI-Department of Health Care Access and Information (formerly OSHPD), structural calculations shall comply with CBC Section 1603A.3.

**2.4 Horizontal (Wind and Seismic) Load Design:** Design for horizontal loads shall be as set forth in Section 4.1.2 of IAPMO UES ER-185. For applications in community

colleges, the provisions in CBC Section 1617 shall apply. For applications regulated by DSA or HCAI (formerly OSHPD):

- Horizontal diaphragm span-width ratios shall comply with CBC Section 1604A.3.8.
- Provisions in ASCE/SEI 7 shall be modified as set forth in CBC Section 1617A.

**2.5** Special inspections shall comply with Section 4.3 of IAPMO UES ER-185, along with the modifications in Sections 1705 and 1705A of the CBC.

**2.6** The site-specific design criteria for wind speed, exposure category, and seismic design category shall be determined in accordance with Chapter 16 of the CBC or Section R301 of the CRC, as applicable.

**2.7** This supplement expires concurrently with IAPMO UES ER-185.

For additional information about this evaluation report please visit [www.uniform-es.org](http://www.uniform-es.org) or email us at [info@uniform-es.org](mailto:info@uniform-es.org)



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#### 1.0 RECOGNITION

The Sure-Board® Series 200S Structural Panels, as evaluated and represented in IAPMO UES Evaluation Report ER-185 and the California Supplement, and with changes as noted in this supplement, are satisfactory alternatives for use in buildings built under the following codes:

- 2023 Los Angeles Building Code (LABC)
- 2023 Los Angeles Residential Code (LARC)

#### 2.0 LIMITATIONS

Use of the Sure-Board® Series 200S Structural Panels recognized in this report is subject to the following limitations:

**2.1** The Sure-Board® Series 200S Structural Panels shall comply with the provisions in the California Supplement of IAPMO UES ER-185 applicable to the 2022 CBC and CRC for use under the 2023 LABC and 2023 LARC, respectively.

**2.2** Building design calculations and details shall be prepared, stamped, and signed by a California registered design professional.

**2.3** Design, installation, and inspection shall be in accordance with Chapters 16 and 17 of the LABC or the LARC, as applicable, due to local amendments to these chapters.

**2.4** The allowable strength values shown in Table 2 of IAPMO UES Evaluation Report ER-185 shall not be further increased for loads of short-term duration such as wind or seismic.

**2.5** Use of Sure-Board® Series 200S Structural Panels shall be limited to dry, interior locations.

**2.6** The design of the cold-formed steel members supporting the panels and other structural elements connected to the panels shall consider the loads imposed by the panels. The design is outside the scope of this report and shall comply with the LABC.

**2.7** Fasteners used to connect the Sure-Board® Series 200S panels to steel framing members shall be approved for such use and shall have an Evaluation Report from an approved source.

**2.8** Fabrication of Sure-Board® Series 200S Structural Panels shall be in a shop of a fabricator licensed by the City of Los Angeles Department of Building and Safety, in accordance with the Manufacturing Standards submitted to the Department.

**2.9** This supplement expires concurrently with IAPMO UES ER-185.

For additional information about this evaluation report please visit [www.uniform-es.org](http://www.uniform-es.org) or email at [info@uniform-es.org](mailto:info@uniform-es.org)