



NON-COMBUSTIBLE
SURE-BOARD®
SERIES 200S-F/200S-P
FLOOR/ROOF SHEATHING



SURE-BOARD® ...FOR SHEATHING

ALL TABLES INCLUDE ASD DESIGN LOAD CAPACITIES FOR USE WITH ALL ACCEPTED VERSIONS OF THE 2010 AISI LATERAL STANDARDS / 2015 IBC / 2015 IRC / 2013 CBC / AND THE ASCE/SEI 7-10 CODES

SURE-BOARD® IAPMO ES ER-185 **STEEL** **SURE-BOARD®** IAPMO ES ER-185
Series 200S Sheathing LARR #26040 Framing Series 200S Sheathing LARR #26040 Framing
DSA IR A-5 DSA IR A-5

TABLE 1
NOMINAL DESIGN 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 (LRFD) (psf)	Allowable Concentrated Load, LBF
24 maximum	435	215	260	2,000

For **Sl:** 1 inch = 25.4 mm, 1 psf = 47.88 Pa, 1 lb/ft = 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.

Series 200S panels installed for roofs shall include minimum No. 20 gauge (0.033 inch) thick steel sheets.

SURE-BOARD®
Series 200S Sheathing

IAPMO ES ER-185
LARR #26040
DSA IR A-5

STEEL
Framing

TABLE 2
NOMINAL SHEAR STRENGTH FOR BLOCKED HORIZONTAL DIAPHRAGMS, LBS/FT
SURE-BOARD® SERIES 200S STRUCTURAL PANELS

Screw Spacing, inches		Nominal Strength, (Rn)	Allowable Strength, (ASD)		Factored Resistance (LRFD)	
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 **Sl:** 1 inch = 25.4 mm, 1 lb/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^{1,2}

CFS Specifications				Allowable Wind Uplift, (ASD)				Allowable Wind Uplift, (ASD)			
				(psf)				(psf)			
				24 (inch) (o.c.), Joist Spacing				16 (inch) (o.c.), Joist Spacing			
				Screw Size							
Designated Thickness mils	Design Thickness, In.	F _y ksi	F _u 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 **Sl:** 1 inch = 25.4 mm, 1 lb/ft = 4.448 N, 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® STANDARDS & SPECIFICATIONS:

The Sure-Board® Series 200S Structural Sheathing Panels laminated with water soluble adhesive to 1/2" / 3/4" 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/G/40 minimum, and ASTM A1003/A1003M. The sheets are provided with a G-40 hot dipped galvanized coating conforming to ASTM A924.

SERIES 200S-F FLOOR SHEATHING:

3/4" 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.

SERIES 200S-P ROOF SHEATHING:

1/2" Thick Fiber Cement Sheathing is laminated to 20 gauge (0.033 inch / 0.838 mm) steel sheet for use as typical roof sheathing with framing members at 16" o.c. maximum spacing.

Both floor and roof sheathing are manufactured in 48" x 48" panels for easy installation.

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 drill 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

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Expanding Your Solutions
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Improve the quality
of your next
framing project
with *Sure-Board®*
Series 200S

Our revolutionary non-combustible sheathing panels will improve the quality and increase the efficiency during the installation on your next residential or midrise load bearing project.

When you incorporate Sure-Board® Series 200S sheathing, the finish product will prevent the need to work over uneven corrugated deck or have to bear the delay of pouring and finishing each level if you have been using a deep pandeck system.

These delays may be eliminated and production increased at no additional cost.

The installation of our series 200S panels do not require any new installation techniques for the field staff. Since the current methods and practices for installation are the same as those used for decades for plywood and OSB panels, we have the huge advantage of eliminating blocking and creating a great non-combustible structure for the future.

The Big One
Scan this QR to view
the Seismic Tests
Conducted at
UCSD's Shake Table



We put our building to the “**Real Test**” at the world’s largest outdoor shake table at UCSD.

The First Revolutionary 6 Story CFS ShakeTable Test
CEMCO and many industry partners along with H.U.D. and the California Seismic Safety Commission worked together on this program. DCI Engineering and the UCSD Engineering staff performed the first ever shake table test utilizing current code required lateral and diaphragm methods. Sure-Board® sheathing demonstrated amazing resilience with no measurable damage. The test program included 13 pretests of increased magnitude to finally reach the MCE or 150% of the 1994 Northridge 6.7 magnitude seismic event. There was no structural damage and this structure was totally intact and ready for use. Imagine if it were a medical facility or one of our children’s schools where the occupants must be kept safe at all costs. **Sure-Board® is the Best Solution.**

Sure-Board® Series 200S has proven results to make your building better and cost you less.



Sure-Board® Series 200S is the non-combustible alternative for any CFS sheathing application both large and small.



Sure-Board® Series 200S is UL approved for all 1 and 2 hour assemblies.

Sure-Board® Series 200S is Approved Nationwide
Sure-Board® Series 200S is certified using all national building codes. That includes the current IBC, IRC, CBC, DSA, GSA, Army Corp of Engineers, City of New York, City of Los Angeles, LARR 26040 to mention a few. IAPMO UES EC-012 and ER-185 Certify our panels performance through our extensive test program, for use on any CFS project Nationwide.

Sure-Board® Series 200S is the best investment in non-combustible sheathing for your building.
“OUR STEEL IS THE REAL DEAL.”

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.

ROOF FRAMING

- Steel is extended 2" beyond cement board to accomplish horizontal blocking for Series 200S panel
- RR/FJ must be installed at 24" o.c. maximum when installing 3/4" Series 200S-F
- RR must be installed at 16" o.c. maximum when installing 1/2" Series 200S-P

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.)

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.

FLOOR FRAMING

NOTE: FJ must be installed at 16" o.c. where topping is not applied.

CEMCO
Expanding Your Solutions

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
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

Sure-Board® Series 200S Floor/Roof Cross Sections

Sure-Board® Series 200S
is available Nationwide through
thousands of distributors in all 50 states.

About CEMCO®
California Expanded Metal Products Co. (CEMCO®) is the premier manufacturer of cold-formed steel framing and metal lath products in the Western United States. Its steel-framing product segments include FAS™ head-of-wall products, ProX Header®, Pro X RO-Rough Opening framing system, Sure Span® steel framing floor joist system, Sure-Board® for shear-wall panels, ViperStud® interior stud framing system, metal lath and water management products along with its SFIA Code Certified steel framing products. Founded in 1974, CEMCO is the leader in quality, service, and product development, and offers one of the broadest product lines available in cold-formed steel framing used for both the commercial and residential construction markets.

