

# SP SUBFLOOR PANEL

**SUBFLOOR PANEL HAS AN INTERNAL STEEL MESH DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE (ACI) GUIDE FOR DESIGN & CONSTRUCTION WITH AUTOCLAVED AERATED CONCRETE PANELS.**

These Panels can be placed on any structure (wood, steel or concrete).



DATA SHEET

## SPECS

PARAMETERS	UNITS	VALUES	
		AAC-4	AAC-6
Compressive Strength	psi	590	930
Real Density	lb/ ft <sup>3</sup>	33.4	39.2
Elastic modulus	ksi	326.9	235.5
<b>VALUES</b>			
Nominal Density	lb/ ft <sup>3</sup>	30.4	
R Value per inch	h ft <sup>2</sup> °F/BTU	1.2	
Drying shrinkage	%	0.0015	



## WORKFORCE PERFORMANCE

PRODUCT PLACEMENT	PERFORMANCE
Subfloor Panel	800-1000 ft <sup>2</sup> /workday
Squad: Officer and assistant.	

## MEASUREMENTS

THICKNESS (in)	HEIGHT (in)	LENGTH (in)	AREA (ft <sup>2</sup> )	WEIGHT x PIECE (lb)	WEIGHT x FT <sup>2</sup> (lb)
1.97	24	48	8.00	44.08	5.51
1.97	24	64	10.66	58.75	5.51
1.97	24	72	12.01	66.17	5.51
1.97	24	80	13.35	73.58	5.51
1.97	24	96	16.00	88.16	5.51
2.95	24	48	8.00	66.16	8.27
2.95	24	64	10.66	88.19	8.27
2.95	24	72	12.01	99.31	8.27
2.95	24	80	13.35	110.43	8.27
2.95	24	96	16.00	132.32	8.27

## LOADS

	DIMENSIONS				DESIGN LOADS		
	THICK (in)	WIDTH (in)	LENGTH (in)	CLASS	DL(psf)	LL(psf)	MAX SPAN (in)
2" x 24" x 48"	1.97	24	48	AAC-4	38	100	16
2" x 24" x 48"	1.97	24	48	AAC-4	27	60	24
2" x 24" x 48"	1.97	24	48	AAC-6	10	100	24
2" x 24" x 64"	1.97	24	64	AAC-4	36	100	16
2" x 24" x 72"	1.97	24	72	AAC-4	32	60	24
2" x 24" x 72"	1.97	24	72	AAC-6	10	100	24
2" x 24" x 80"	1.97	24	80	AAC-4	36	100	16
2" x 24" x 96"	1.97	24	96	AAC-4	36	100	16
2" x 24" x 96"	1.97	24	96	AAC-4	30	60	24
2" x 24" x 96"	1.97	24	96	AAC-6	10	100	24
3" x 24" x 48"	2.95	24	48	AAC-4	123	100	16
3" x 24" x 48"	2.95	24	48	AAC-4	28	100	24
3" x 24" x 64"	2.95	24	64	AAC-4	121	100	16
3" x 24" x 72"	2.95	24	72	AAC-4	35	100	24
3" x 24" x 80"	2.95	24	80	AAC-4	120	100	16
3" x 24" x 96"	2.95	24	96	AAC-4	120	100	16
3" x 24" x 96"	2.95	24	96	AAC-4	33	100	24
3" x 24" x 96"	2.95	24	96	AAC-6	69	100	24

**NOTE:** Loads should be reviewed by project's Professional Engineer.

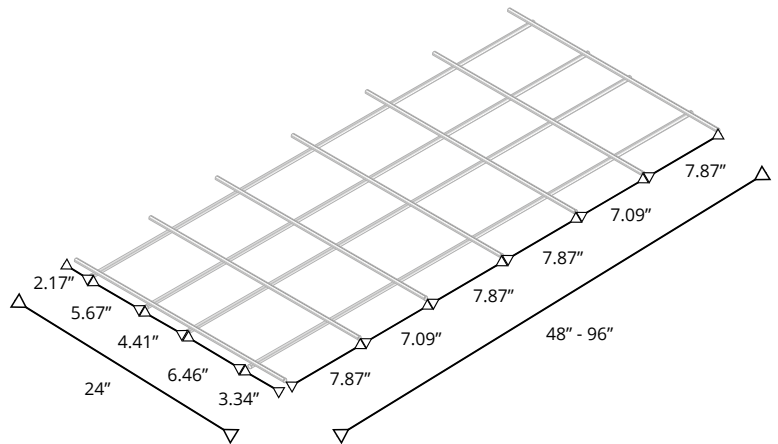
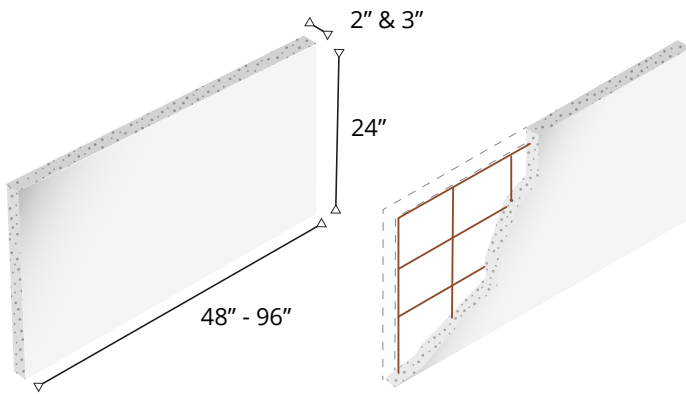
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## TESTS

PARAMETERS	RECORDED MEASUREMENT	RESULTS	NOTES:
Transverse Loading Test	190 lb/ft <sup>2</sup>	Pass	<ol style="list-style-type: none"> <li>Testing was conducted in accordance with the method designated in Testing Application Standard ASTM C 1452 Standard Specification for Reinforced Autoclaved Aerated Concrete Elements, with supports every 16 inches.</li> </ol>

## DIMENSIONS

Mesh design applies for 2" and 3" Subfloor Panel



## NOTES:

- General tolerances +/- 3 mm.
- Tolerances not accumulative.
- Steel without sharp edges.
- Steel jointed using electric weld in compliance with ASTM C1694-09.
- Minimum Resistance to shear of the joint 495 lbf (2.2 KN).
- Drawn wire SAE 1008 Cal. 8 (Ø4.04mm) Grade 70.
- Yield strength >= 70 ksi (485 Mpa).
- Tensile strength >= 80 ksi (550 Mpa).
- Reduction of area >= 30%.
- Steel covered with corrosion protection in compliance with ASTM C1694-09 (corrosion shall not exceed 5% of total surface area).

