

SP SUBFLOOR PANEL

Steel-reinforced AAC subfloor panel designed to fit structural supports spaced at 16" and 24" on center (O.C.)

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

ICC-ES Listing Report ESL - 1594



SPECS

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



WORKFORCE PERFORMANCE

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

MEASUREMENTS

THICKNESS (in)	HEIGHT (in)	LENGTH (in)	AREA (ft ²)	WEIGHT x PIECE (lb)	WEIGHT x FT ² (lb)
1.97	24	96	16.00	88.16	5.51
2.95	24	96	16.00	132.32	8.27

LOADS

	DIMENSIONS						CLASS	DESIGN LOADS			
	THICK (in)	WIDTH (in)	LENGTH (in)	THICK (in)	WIDTH (in)	LENGTH (in)		LOADS		MAX SPAN	
								DL(psf)	LL(psf)	(in)	(mm)
2" x 24" x 96"	1.97	24	96	50	610	2440	AAC-4	36	100	16	406.4
2" x 24" x 96"	1.97	24	96	50	610	2440	AAC-4	30	60	24	609.6
3" x 24" x 96"	2.95	24	96	75	610	2440	AAC-4	120	100	16	406.4
3" x 24" x 96"	2.95	24	96	75	610	2440	AAC-4	33	100	24	609.6
3" x 24" x 96"	2.95	24	96	75	610	2440	AAC-6	69	100	24	609.6

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

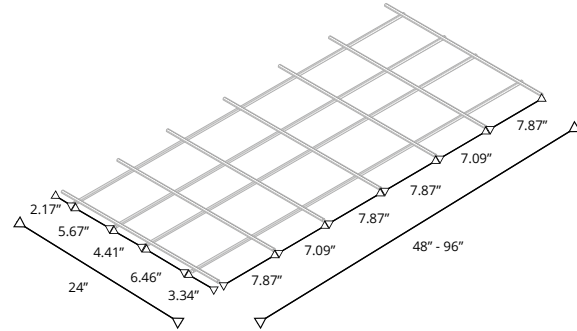
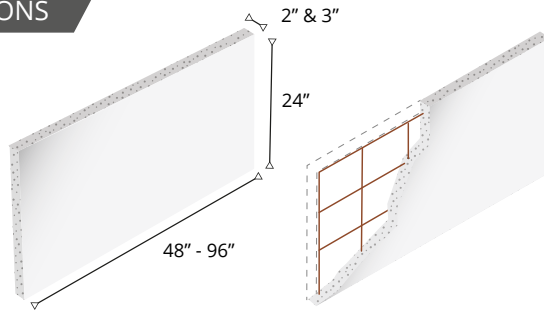
TESTS

PARAMETERS	RESULTS
Fire Resistance ASTM E-119	1 hr



SP SUBFLOOR PANEL

DIMENSIONS



Mesh design applies for 2" and 3" Subfloor Panel

2 x 10" JOIST WOOD TESTING

	ASSEMBLY 1		ASSEMBLY 2		ASSEMBLY 3		ASSEMBLY 4		ASSEMBLY 5		ASSEMBLY 6		ASSEMBLY 7	
Floor Topping	NONE		8+2 Laminate with Attachad Pad		Carpet		5.5 mm Click with 1.5 mm Attached Pad		2 mm Vinyl		2 mm Vinyl		5 mm LVT with Pad	
Underlayment	NONE		NONE		Basic carpet Pad		NONE		Basic underlayment (1.4 mm)		Acoustiworx (3 mm)		Acoustiworx (3 mm)	
Frame	10" 2x10 (16" o.c.)		10" 2x10 (16" o.c.)		10" 2x10 (16" o.c.)		10" 2x10 (16" o.c.)		10" 2x10 (16" o.c.)		10" 2x10 (16" o.c.)		10" 2x10 (16" o.c.)	
Litecon	3" Litecon Subfloor Panel		3" Litecon Subfloor Panel		3" Litecon Subfloor Panel		3" Litecon Subfloor Panel		3" Litecon Subfloor Panel		3" Litecon Subfloor Panel		3" Litecon Subfloor Panel	
Insulation	R-13		R-13		R-13		R-13		R-13		R-13		R-13	
Resilient Channel	7/8" Furring Channel (16" o.c.)		7/8" Furring Channel (16" o.c.)		7/8" Furring Channel (16" o.c.)		7/8" Furring Channel (16" o.c.)		7/8" Furring Channel (16" o.c.)		7/8" Furring Channel (16" o.c.)		7/8" Furring Channel (16" o.c.)	
Ceiling Boards	One-Layers of Type X		One-Layers of Type X		One-Layers of Type X		One-Layers of Type X		One-Layers of Type X		One-Layers of Type X		One-Layers of Type X	
Rating	STC	IIC	STC	IIC	STC	IIC	STC	IIC	STC	IIC	STC	IIC	STC	IIC
STC / IIC	51	33	52	44	52	72	52	44	52	45	-	47	54	50

Note: IBC Section 1206: Minimum STC 50 (when tested in lab per ASTM E90) . Minimum IIC 50 (when tested in lab per ASTM E492)

10" C-JOIST STEEL TESTING

	ASSEMBLY 1		ASSEMBLY 2		ASSEMBLY 3		ASSEMBLY 4		ASSEMBLY 5	
Floor Topping	NONE		8+2 Laminate with Attachad Pad		Carpet		5.5 mm Click with 1.5 mm Attached Pad		2 mm Vinyl	
Underlayment	NONE		NONE		Basic carpet Pad		NONE		Basic underlayment (1.4 mm)	
Frame	10" 2x10 (16" o.c.)		10" 2x10 (16" o.c.)		10" 2x10 (16" o.c.)		10" 2x10 (16" o.c.)		10" 2x10 (16" o.c.)	
Litecon	3" Litecon Subfloor Panel		3" Litecon Subfloor Panel		3" Litecon Subfloor Panel		3" Litecon Subfloor Panel		3" Litecon Subfloor Panel	
Insulation	R-13		R-13		R-13		R-13		R-13	
Resilient Channel	7/8" Furring Channel (16" o.c.)		7/8" Furring Channel (16" o.c.)		7/8" Furring Channel (16" o.c.)		7/8" Furring Channel (16" o.c.)		7/8" Furring Channel (16" o.c.)	
Ceiling Boards	Two-Layers of Type X		Two-Layers of Type X		Two-Layers of Type X		Two-Layers of Type X		Two-Layers of Type X	
Rating	STC	IIC	STC	IIC	STC	IIC	STC	IIC	STC	IIC
STC / IIC	54	32	55	48	55	70	55	47	54	50

Note: IBC Section 1206: Minimum STC 50 (when tested in lab per ASTM E90) . Minimum IIC 50 (when tested in lab per ASTM E492)

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).

