

FP FLOOR PANEL



FLOOR 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).

SPECS

PARAMETERS	UNITS	VALUES
Compressive Strength	psi	590
Nominal Density	lb/ ft ³	30.4
Real Density	lb/ ft ³	33.4
R Value*	h ft ² °F/BTU	3.44
Elastic modulus	ksi	326.9
Drying shrinkage	%	0.0015

*2.95" thickness



WORKFORCE PERFORMANCE

PRODUCT PLACEMENT	PERFORMANCE
Floor 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	23.62	48.03	7.88	40.34	5.12
2.95	23.62	48.03	7.88	60.43	7.67

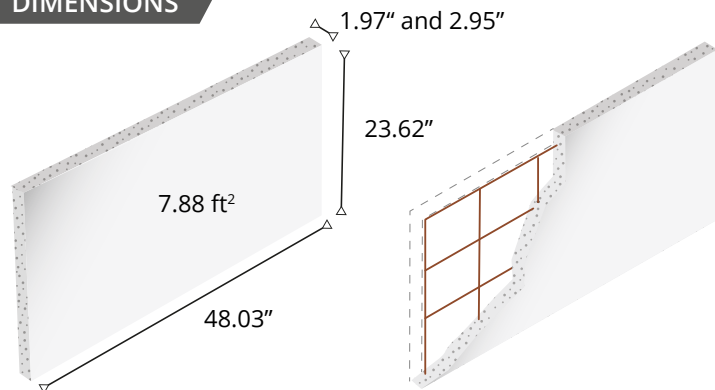
LOADS

THICKNESS (in)	LIVE LOAD (psf)	DEAD LOAD (psf)	SUPPORTS (in)
1.97	40	37	16
2.95	60	56	16
2.95	40	22	24

NOTE:

Values for standard AAC-4.
Density AAC-6 reach up to LL=100psf and DL=32psf with supports 16" O.C.
Loads should be reviewed by project's Professional Engineer.

DIMENSIONS



TESTS

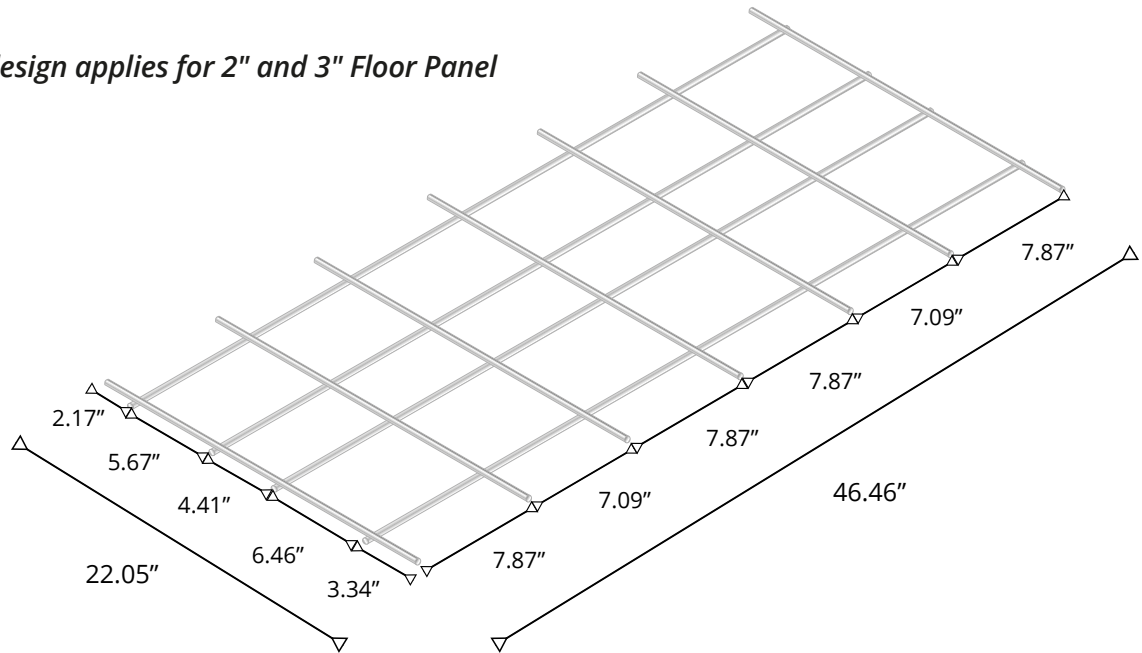
PARAMETERS	RECORDED MEASUREMENT	RESULTS
Transverse Loading Test	190 lb/ft ²	Pass

NOTES:

- 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.



Mesh design applies for 2" and 3" Floor Panel



NOTES:

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

