

Product Properties 1/2

1.0. GENERAL PROPERTIES.	
CHARACTERISTIC	AAC-4/500 (31 pcf) ⁽¹⁾
DESIGN WEIGHT (pcf)	37
MODULUS IF ELASTICITY (psi)	295,000
DRYING SHRINKAGE (in/ft)	0.0024 in/ft
THERMAL EXPANSION COEFFICIENT (1/°F)	$8 \times 10^{-6} \text{ 1/}^\circ\text{K}$
(1) MAXIMUM DRY DENSITY	

2.0. THERMAL PROPERTIES.		
MATERIAL	THICKNESS* in	THERMAL RESISTANCE "R" ft ² h °F/Btu
PANEL CLASS AAC-4/500 DENSITY 32 pcf K= 0.9124 Btu in ² /ft h °F	2 (1 15/16)	2.15
	3 (2 15/16)	3.24

3.0. PHYSICS PROPERTIES.					
THICKNESS in	LENGTH ft	DESIGN WEIGHT		PIECES PER PALLET	AREA COVERED PER PIECE ft ²
		psf	lb/piece		
2 (1 15/16)	8	6.1	97.6	16	16
	3 (2 15/16)				
3 (2 15/16)	8	9.10	145.6	10	20
	10				

4.0. FIRE RESISTANCE PROPERTIES.			
MATERIAL	THICKNESS* in	FIRE RATING Hrs.	UL DESIGN NUMBERS (UL Fire Resistance Directory)
AAC-4/500 POWER PANEL (WOOD FRAME ASSEMBLY)	3	1	U358
AAC-4/500 POWER PANEL (METAL FRAME ASSEMBLY)	3	2	V420
AAC-4/500 POWER PANEL (WOOD / METAL FRAME)	2	1 TO 2	U214

NOTES

- 1.-NOT SCALE.
- 2.-DIMENSIONS INCHES.
- 3.-STEEL REINFORCEMENT IN POWER PANEL FY=70 ksi
- 4.- AAC STRENGTH CLASS AAC-4/500- F^{aac}= 580 psi.