

**Table 13.0:** Specific Heat (s) and Heat Capacity (HC) for AAC, brick veneer and ½" glued drywall

AAC Type	Density pcf	Specific Heat	Heat Capacity			
			Thickness, in.			
			6	8	10	12
AAC 2.5 (AAC2)	26	0.25	12.79	13.88	14.96	16.04
AAC 2.5 (AAC3)	32	0.25	13.54	14.88	16.21	17.54
AAC 5.0 (AAC5)	38	0.25	14.29	15.88	17.46	19.04
AAC 7.5 (AAC6)	44	0.25	15.04	16.88	18.71	20.54

Brick 4" • Density = 135 pcf, • Specific heat = 0.20 Btu/lb.°F

(\*) "Thermal Performance For AAC Block-Residential Application" was prepared by Hebel and is the property of Autoclaved Aerated Concrete Product Association (AACPA) and is only to be used by members of the AACPA.

**Table 14.0:** DBMS and Equivalent R Values

	8" AAC			10" AAC			*12" AAC		
	R	DBMS	Requiv	R	DBMS	Requiv	R	DBMS	Requiv
Phoenix	8.4	2.48	20.83	10.5	2.51	26.36	12.60	2.54	32.01
Flagstaff	8.4	1.99	16.72	10.5	1.99	20.90	12.60	1.99	25.07
Los Angeles	8.4	1.54	12.94	10.5	1.57	16.49	12.60	1.60	20.17
Sacramento	8.4	2.44	20.50	10.5	2.44	25.62	12.60	2.44	30.74
San Diego	8.4	1.42	11.93	10.5	1.44	15.12	12.60	1.46	18.40
San Francisco	8.4	1.78	14.95	10.5	1.79	18.80	12.60	1.80	22.68
Denver	8.4	1.9	15.96	10.5	1.92	20.16	12.60	1.94	24.45
Miami	8.4	1.73	14.53	10.5	1.76	18.48	12.60	1.79	22.56
Atlanta	8.4	1.93	16.21	10.5	1.94	20.37	12.60	1.95	24.57
Minneapolis	8.4	1.48	12.43	10.5	1.5	15.75	12.60	1.52	19.16
Albuquerque	8.4	2.06	17.30	10.5	2.09	21.95	12.60	2.12	26.72
Santa Fe	8.4	2.14	17.98	10.5	2.17	22.79	12.60	2.20	27.73
Las Vegas	8.4	2.46	20.66	10.5	2.49	26.15	12.60	2.52	31.76
Reno	8.4	2.05	17.22	10.5	2.06	21.63	12.60	2.07	26.08
Eugene	8.4	2.14	17.98	10.5	2.16	22.68	12.60	2.18	27.47
El Paso	8.4	2.31	19.40	10.5	2.34	24.57	12.60	2.37	29.87
Salt Lake City	8.4	2.11	17.72	10.5	2.11	22.16	12.60	2.11	26.59
Washington D.C.	8.4	1.7	14.28	10.5	1.72	18.06	12.60	1.74	21.93
Seattle	8.4	1.39	11.68	10.5	1.41	14.81	12.60	1.43	18.02
Spokane	8.4	1.85	15.54	10.5	1.86	19.53	12.60	1.87	23.56

(Source; "A Comparison of Innovative Exterior Wall Construction Techniques", Del E Webb School of Construction at Arizona State University)

R = steady state R-Value

DBMS=Dynamic Benefit of Massive Systems predicted by neural network Requiv=RxDBMS

\*Interpolated