

**GILES ENGINEERING ASSOCIATES, INC.**

**CONCRETE MASONRY UNIT TESTING**

Project No. 1M-9912024

Date 3/31/00

Results of tests on 12" ACOUSTADE Concrete Block  
 Nominal size and type 12"x 8"x 16"

**IDENTIFICATION OF SPECIMENS**

Units manuf. by	<u>Best Block - Lilly Road</u>	Date Made	<u>-</u>
Brand Mark	<u>-</u>	Material	<u>Crushed Limestone</u>
Specimens selected by	<u>AW</u>	Title	<u>-</u> Date <u>-</u>
Sampled from	<u>Plant Stock</u>	Quantity Represented	<u>-</u>
Job	<u>WCMA Certification</u>	Type of Work	<u>-</u>
Identification Marks or Seals	<u>CMU 24-1 (ACOUSTADE)</u>		

Date Received at Lab 3/1/00

**ABSORPTION TEST**

Specimen No.	24-1A	24-1B	24-1F				Average
Sampled weight (lbs.)	52.10	52.50	52.10				52.23
Immersed weight (lbs.)	30.25	30.60	30.50				30.45
Wet weight (24 hr.) (lbs.)	53.55	53.80	53.80				53.72
Oven dry weight (lbs.)	50.90	51.30	51.20				51.13
Weight per cu. ft. (dry) (lbs.)	136.3	138.0	137.1				137.1
Absorption (%)	5.2	4.9	5.1				5.1
Moisture content (% of abs.)	45.28	48.00	34.62				42.63
Absorption (lbs./cu. ft.)	7.1	6.7	7.0				6.9

**COMPRESSION TEST**

Test date	Age	Condition		Average or Variation
Specimen No.	24-1C	24-1D	24-1E	
Air-dry weight (lbs)	52.30	52.05	52.20	52.18
Height (in.)	7.59	7.61	7.60	7.60
Width (in.)	11.66	11.65	11.66	11.66
Length (in.)	15.56	15.56	15.56	15.56
Gross area (sq. in.)	181.43	181.20	181.43	181.35
Gross volume (cu. ft.)	0.80	0.80	0.80	0.80
Net area (sq.in.)	85.01	84.42	84.95	84.80
Net volume (cu. ft.)	0.3734	0.3718	0.3734	0.3729
Ultimate load (lbs)	369,045	362,700	373,205	368,317
Compress. Strength	Gross area (psi)	2030	2000	2060
	Net area (psi)	4340	4300	4390
Type of fracture				
Equivalent thickness (in.)	5.5	5.4	5.5	5.4
Equiv. web thickness (in.)	2.92	2.92	2.91	2.92

**GENERAL DATA**

Face shell thickness (in., min. ave.)	<u>1.53</u>	Web Thickness (in. , min. ave. )	<u>1.24</u>
Cells		Ave. Cell Space ( % )	<u>53.39</u>
Test Method	<u>ASTM C140 - 98</u>		

**SPECIFICATIONS (ASTM C90)**

	Ind.	Ave.		Ind.	Ave.
Compressive strength (min., psi)	Gross area		Absorption (max.) (%) - (lbs/cu. ft.)		
	Net area	1700		1900	

Remarks \_\_\_\_\_

Report to \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Charles S. Gresser P. E.  
 REVIEWING ENGINEER