GILES ENGINEERING ASSOCIATES, INC.

CONCRETE MASONRY UNIT TESTING

Project No. 1M-9912024

Results of tests on: 8" SOUND CELL; Concrete Block — Date: 1/11/00

Nominal size and type: 8"x 8"x 16"

IDENTIFICATION OF SPECIMENS

Units manuf. by	Best Block - Lilly Road	Date Made	-
Brand Mark	-	Material	Crushed Limestone
Specimens selected by	AW	Title	- Date 12/20/99
Sampled from	Plant Stock	Quantity Represented	-
Job	WCMA Certification	Type of Work	-
Identification Marks or Seals	CMU 24-3 (SOUND CELL)		

Date Received at Lab: 1/5/00

ABSORPTION TEST

Specimen No.		24-3A	24-3E	24-3F				Average
Sampled weight	(lbs.)	43.95	43.45	43.80				43.73
Immersed weight	(lbs.)	25.30	25.25	25.50				25.35
Wet weight (24 hr.)	(lbs.)	45.15	44.60	44.95				44.90
Oven dry weight	(lbs.)	42.85	42.60	42.65				42.70
Weight per cu. ft. (dry)	(lbs.)	134.7	137.4	136.8				136.3
Absorption	(%)	5.4	4.7	5.4				5.2
Moisture content	(% of abs.)	47.83	42.50	50.00				46.78
Absorption	(lbs./cu. ft.)	7.2	6.4	7.4				7.0

COMPRESSION TEST

Test date — Age — Condition

Specimen No.		24-3B	24-3C	24-3D				Average or Variation
Air-dry weight	(lbs)	43.40	43.60	43.40				43.47
Height	(in.)	7.65	7.68	7.65				7.66
Width	(in.)	7.66	7.66	7.66				7.66
Length	(in.)	15.56	15.56	15.56				15.56
Gross area	(sq. in.)	119.19	119.19	119.19				119.19
Gross volume	(cu. ft.)	0.53	0.53	0.53				0.53
Net area	(sq.in.)	71.90	69.82	70.45				70.72
Net volume	(cu. ft.)	0.3181	0.3101	0.3117				0.3133
Ultimate load	(lbs)	295,630	315,865	301,685				304,393
Compress. Strength — Gross area	(psi)	2480	2650	2530				2550
Compress. Strength — Net area	(psi)	4110	4520	4280				4310
Type of fracture								
Equivalent thickness	(in.)	4.6	4.5	4.5				4.5
Equiv. web thickness	(in.)	2.95	2.94	2.94				2.94

GENERAL DATA

Face shell thickness (in., min. ave.)	1.53	Web Thickness (in. , min. ave.)	1.21
Cells		Ave. Cell Space (%)	40.89
Test Method	ASTM C140 - 98		

SPECIFICATIONS (ASTM C90)

		Ind.	Ave.			Ind.	Ave.
Compressive strength (min., psi)	Gross area			Absorption (max.)	(%)- (lbs/cu. ft.)		
	Net area	1700	1900				13

Remarks

Report to

Charles S. Gresser P. E.
REVIEWING ENGINEER