

**STORK®****SwL****SOUTHWESTERN LABORATORIES**

222 Cavalcade Street, 77009-3213  
 P.O. Box 8768, Houston, Texas 77249-8768  
 Tel (713) 692-9151 Fax (713) 696-6307

Attention: JG**VOBB - VEROT OAKS BUILDING BLOCKS, INC.**

P.O. BOX 62806

Lafayette, LA 70596-2806

P: 337-781-0705 F: 248/282-5175

W/O. No.: VOB001-03-27-35815

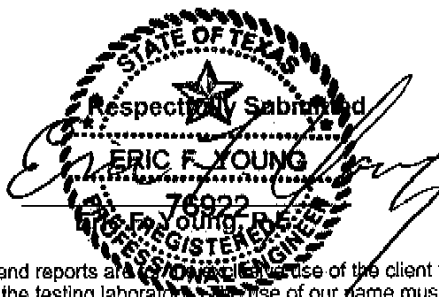
Date: 4/10/2003

P.O. No.:


**Identification: VOBB DRY-STACK CMU BLOCKS**

SwL was provided a series of CMU blocks by VOBB, Inc. for testing. This testing included flexural and compression testing of specific dry-stacked constructed wall sections. The following report is a summary of the testing and resulting data.

1. Compression testing of individual blocks was performed in accordance with ASTM C90-02: *Standard Specification for Loadbearing Concrete Masonry Units*, and ASTM C140-02: *Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units*
2. Wall sections constructed with VOBB CMU material was also tested in accordance with ASTM E72-98: *Conducting Strength Tests of Panels for Building Construction*



Respectfully Submitted

  
 Terry Wilt, Manager Product Evaluation

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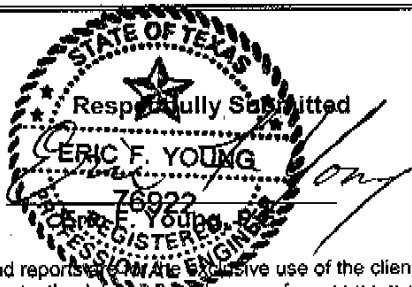
Date: 4/10/2003

P.O. No.:


**UNIT MASONRY COMPRESSION TESTS**

SAMPLE: 6" X 6" X 6" VOBB (8 GROOVE) CONCRETE MASONRY UNIT

DESCRIPTION	UNIT 1	UNIT 2	UNIT 3	AVERAGE
RECEIVED WEIGHT, lbs.	8.4	8.5	8.5	8.4
LENGTH, in.	5.50	5.94	5.95	5.80
WIDTH, in.	5.94	5.95	5.97	5.95
HEIGHT, in.	5.95	5.95	5.95	5.95
FACE SHELL THICKNESS, in.	1.47	1.47	1.47	1.47
WEB THICKNESS, in. (min)	NA	NA	NA	NA
MOISTURE CONTENT, % (As received)	5.0	6.3	6.3	5.8
ABSORPTION, %	16.3	16.3	16.3	16.3
ABSORPTION, pcf.	14.7	15.0	14.7	14.8
DENSITY, pcf.	90.8	92.4	90.8	91.3
GROSS VOLUME, cu. ft.	0.11	0.12	0.12	0.12
NET VOLUME, cu. ft.	0.09	0.09	0.09	0.09
EQUIV. WEB THICKNESS, in./ft.	NA	NA	NA	NA
EQUIV. THICKNESS, in.	4.652	4.231	4.298	4.393
GROSS AREA, sq. in.	32.66	35.35	35.53	34.51
NET AREA, sq. in.	25.58	25.12	25.58	25.43
GROSS COMPRESSIVE STRENGTH, psi	3148	2841	3152	3047
NET COMPRESSIVE STRENGTH, psi	4018	3998	4377	4131



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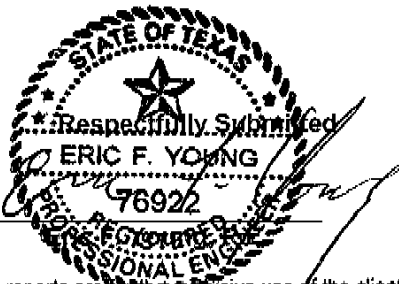
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**SAMPLE: 6" X 6" X 12" VOBB (12 GROOVE) CONCRETE MASONRY UNIT**

DESCRIPTION	UNIT 1	UNIT 2	UNIT 3	AVERAGE
RECEIVED WEIGHT, lbs.	14.8	15.6	15.5	15.3
LENGTH, in.	11.94	11.95	11.94	11.94
WIDTH, in.	5.94	5.94	5.94	5.94
HEIGHT, in.	5.95	5.97	5.94	5.95
FACE SHELL THICKNESS, in.	1.45	1.46	1.46	1.46
WEB THICKNESS, in. (min)	1.30	1.32	1.33	1.32
MOISTURE CONTENT, % (As received)	5.0	6.1	5.4	5.5
ABSORPTION, %	17.0	15.6	15.0	15.9
ABSORPTION, pcf.	15.3	14.2	13.9	14.5
DENSITY, pcf.	89.8	90.8	92.7	91.1
GROSS VOLUME, cu. ft.	0.24	0.25	0.24	0.24
NET VOLUME, cu. ft.	0.16	0.16	0.16	0.16
EQUIV. WEB THICKNESS, in./ft.	3.927	3.969	4.005	3.967
EQUIV. THICKNESS, in.	3.819	3.920	3.868	3.869
GROSS AREA, sq. in.	70.88	70.97	70.88	70.91
NET AREA, sq. in.	45.59	46.86	46.17	46.21
GROSS COMPRESSIVE STRENGTH, psi	1784	2042	2104	1977
NET COMPRESSIVE STRENGTH, psi	2774	3093	3230	3032



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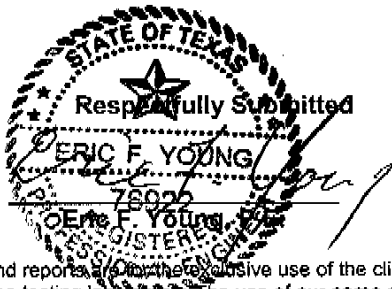
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**SAMPLE: 6" X 6" X 18" VOBB (4 GROOVE) CONCRETE MASONRY UNITS**

DESCRIPTION	UNIT 1	UNIT 2	UNIT 3	AVERAGE
RECEIVED WEIGHT, lbs.	19.8	19.9	20.0	19.9
LENGTH, in.	17.91	17.94	17.89	17.91
WIDTH, in.	5.94	5.95	5.94	5.94
HEIGHT, in.	6.00	5.98	6.00	5.99
FACE SHELL THICKNESS, in.	1.45	1.48	1.50	1.48
WEB THICKNESS, in. (min)	1.17	1.16	1.15	1.16
MOISTURE CONTENT, % (As received)	3.7	3.6	5.3	4.2
ABSORPTION, %	16.8	15.6	17.4	16.6
ABSORPTION, pcf.	14.1	13.3	14.5	13.9
DENSITY, pcf.	83.9	85.0	83.5	84.1
GROSS VOLUME, cu. ft.	0.37	0.37	0.37	0.37
NET VOLUME, cu. ft.	0.23	0.23	0.23	0.23
EQUIV. WEB THICKNESS, in./ft.	2.346	2.331	2.316	2.331
EQUIV. THICKNESS, in.	3.660	3.637	3.663	3.654
GROSS AREA, sq. in.	106.32	106.78	106.23	106.44
NET AREA, sq. in.	65.54	65.25	65.54	65.44
GROSS COMPRESSIVE STRENGTH, psi	1448	1537	1338	1441
NET COMPRESSIVE STRENGTH, psi	2350	2515	2169	2344



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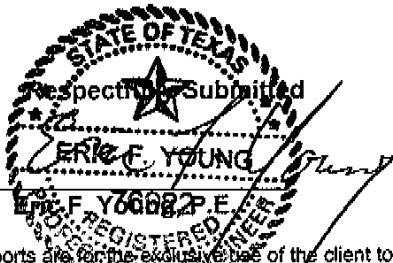
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**SAMPLE: 6" X 6" X 18" VOBB (FILLED AND UNFILLED) CONCRETE MASONRY UNITS**

DESCRIPTION	UNFILLED UNIT (1 of 3 cells filled)	FILLED UNIT (3 of 3 cells filled)
RECEIVED WEIGHT, lbs.	N/A	N/A
LENGTH, in.	17.68	N/A
WIDTH, in.	5.90	N/A
HEIGHT, in.	5.87	N/A
FACE SHELL THICKNESS, in.	1.48	N/A
WEB THICKNESS, in. (min)	3.18	N/A
MOISTURE CONTENT, % (As received)	N/A	N/A
ABSORPTION, %	N/A	N/A
ABSORPTION, pcf.	N/A	N/A
DENSITY, pcf.	N/A	N/A
GROSS VOLUME, cu. ft.	0.35	N/A
NET VOLUME, cu. ft.	N/A	N/A
EQUIV. WEB THICKNESS, in./ft.	6.48	N/A
EQUIV. THICKNESS, in.	N/A	N/A
GROSS AREA, sq. in.	104.46	N/A
NET AREA, sq. in.	N/A	N/A
GROSS COMPRESSIVE STRENGTH, psi	1732	1770
NET COMPRESSIVE STRENGTH, psi	N/A	N/A



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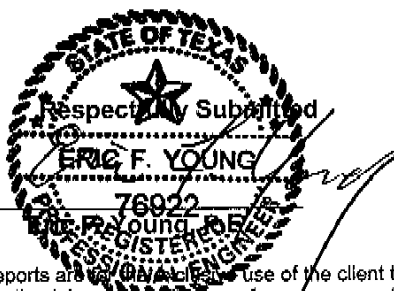
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**CMU COMPRESSION TEST SUMMARY**

BLOCK TYPE	TYPICAL AVERAGE WEIGHT	AVERAGE GROSS COMPRESSIVE STRENGTH (psi)	AVERAGE NET COMPRESSIVE STRENGTH (psi)
Common 12" x 8" x 16" Regular, Normal Weight	53 lbs.	1,352	2,756
Common 8" x 8" x 16" 2 hour UL block	42 lbs.	1,055	N/A
6" x 6" x 6" VOBB (8 groove)	8lbs.	3,047	4,131
6" x 6" x 12" VOBB (12 groove)	15 lbs.	1,977	3,032
6" x 6" x 18" VOBB (4 groove)	20 lbs.	1,441	2,344
6" x 6" x 18" VOBB 1 of 3 cells filled	N/A	1,732	N/A
6" x 6" x 18" VOBB 3 of 3 cells filled	N/A	1,770	N/A



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**STRENGTH TESTS OF PANELS**

FOUR FOOT BY FOUR FOOT (4'X4') WALL, DRY-STACK CONSTRUCTION, VOBB CMU BLOCKS.

TWO (2) ½" REBAR PLACED VERTICALLY WITHIN EACH GROUT FILLED CAVITY.

Dry-stack construction of alternating rows of two 6" x 6" x 6" and two 6" x 6" x 18" blocks, with adjacent row consisting of one 6" x 6" x 12" and two 6" x 6" x 18" blocks. Wall structure weight: 1,000 lbs.

**FLEXURAL LATERAL LOAD TEST**

Transverse Load – Specimen Horizontal

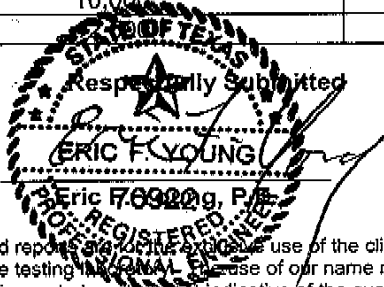
Load (lbf)	Load (psf)	Estimated Wind Force (MPH)	Average deflection at central point of longitudinal edges (in.)
960	60.0 **	150	---
1,000	62.5		0.012
1,500	93.75		0.016
2,500	156.5		0.027
3,750	234.4	585	structural failure

\*\* Industry standard suggests a 60 psf force equals a lateral wind load of 150 MPH.

**COMPRESSIVE LOAD TEST**

The compressive load was applied to obtain common deflection curves, and to observe typical wall structural reaction to such a compressive load; it was not loaded to failure.

Load (lbf)	Load (psf)	Average deflection at central point of longitudinal edges (in.)
1,000	500	-0.002
1,500	750	-0.011
2,500	1,250	-0.025
3,500	1,750	-0.029
5,000	2,500	-0.014
6,250	3,125	+0.010
7,500	3,750	+0.031
10,000	5,000	+0.080
	6,250	+0.133



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**SEVEN FOOT (7') LINTEL**

DRY-STACKED CONSTRUCTION VOBB CMU WALL SECTION. ALL CAVITIES GROUT FILLED.  
 ONE 1/2" REBAR IN ALL CAVITIES AND ONE 1/2" HORIZONTAL REBAR ON BOTTOM ROW.  
 Wall structure weight: 700 lbs.

**COMPRESSIVE LOAD**

A compressive load was distributed across the top row of two 6" x 6" x 18" VOBB CMU blocks. The load was applied until failure of the structural wall (lintel) was obtained. No deflection measurements were taken.

Result = Maximum sustained load was 60,000 lbf, or 40,000 psf.  
 Test was stopped at limit of loading equipment.

**FLEXURAL LOAD**

Lateral flexural load was applied briefly, to obtain structural reaction to flexural loading.

Load (lbf)	Load (psf)	Average deflection (in.)
1,250	833	0.039
1,875	1,250	0.042

**FOUR FOOT (4') LINTEL**

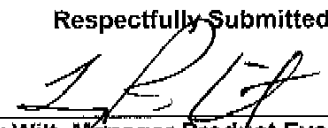
DRY-STACKED CONSTRUCTION VOBB CMU WALL SECTION. ALL CAVITIES GROUT FILLED.  
 ONE 1/2" REBAR IN ALL CAVITIES AND ONE 1/2" HORIZONTAL REBAR ON BOTTOM ROW  
 Wall structure weight: 350 lbs.

**FLEXURAL LOAD**

Load (lbf)	Load (psf)	Average deflection (in.)
1,000	800	0.005
1,750	1,400	0.034
2,500	2,000	0.063
3,750	3,000	0.066
5,000	4,000	0.082
6,250	5,000	0.097
7,500	6,000	0.145
8,750	7,000	failure to structure

No compression test on (4') lintel performed.

STATE OF TEXAS  
 \*Respectfully Submitted  
 ERIC F. YOUNG  
 Eric F. Young, P.E.  
 REGISTERED PROFESSIONAL ENGINEER

Respectfully Submitted  
  
 Terry Wilt, Manager Product Evaluation

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**PARTIAL WALL**

DRY-STACKED CONSTRUCTION VOBB CMU WALL SECTION. 2 OF 3 (OUTER) CAVITIES GROUT FILLED. ONE 1/2" REBAR IN FILLED CAVITIES. DIMENSIONS: 18" WIDE X 48" TALL X 6" DEEP.

Construction consisted of alternating rows of single 18" VOBB CMU block, with adjacent row having one 12" VOBB CMU block with one 6" VOBB CMU block. Wall structure weight: 200 lbs.

**FLEXURAL LOAD**

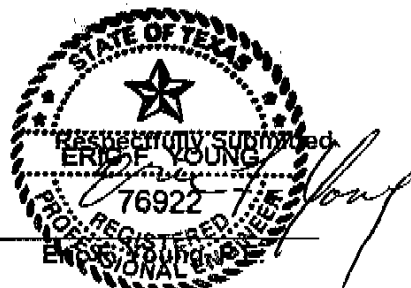
Deflection not measured

Maximum Load (lbf)	Maximum Load (psf)
8,375	1,396

Additionally, a one foot (1') dry-stacked construction VOBB CMU wall was subjected a compression test. This one foot simulated corner wall was of a "standard VOBB" dry-stack construction with cavities grout filled on an alternating basis, with the corner and end cavities being grout filled. Cavities with grout also contain 1/2" rebar.

The minimum height of a VOBB wall of similar construction can be one foot (1') to dry-stack the blocks together with grout on a vertical basis rather than a mortar joint.

This simulated corner section, consisting of a top surface area of 2.5 sq. ft., withstood a compressive load of 3,700 lbf., which equals a load of 1,480 psf. before structural failure occurred.



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*Terry Wilt*

Terry Wilt, Manager Product Evaluation

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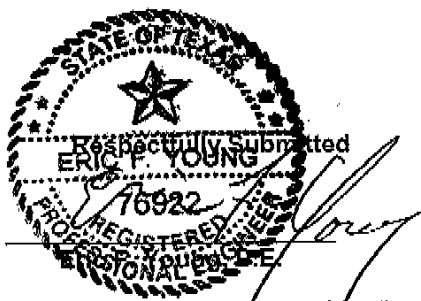
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Compression Test  
Four foot by four foot (4'x4') dry-stacked construction VOBB CMU wall.



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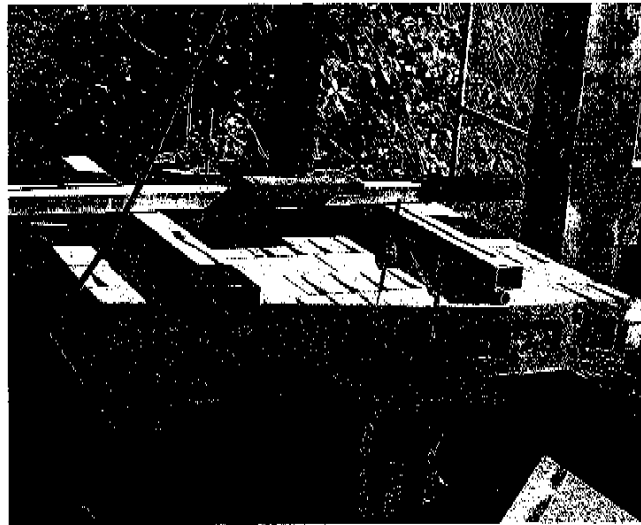
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P.O. No.:



Flexural Test.  
Four foot by four foot (4'x4') dry-stacked construction VOBB CMU wall.

STATE OF TEXAS  
★ Respectfully Submitted  
ERIC F. YOUNG  
46927  
PROFESSIONAL ENGINEER

Respectfully Submitted  
  
Terry Wilt, Manager Product Evaluation

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**SWL**

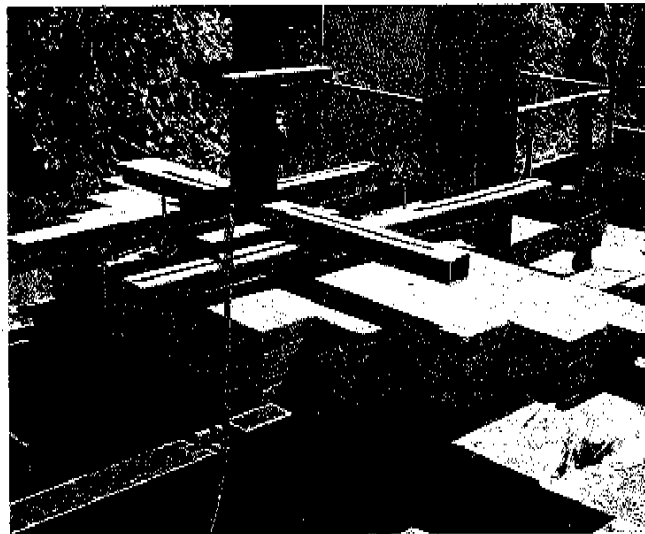
**SOUTHWESTERN LABORATORIES**

222 Cavalcade Street, 77009-3213  
P.O. Box 8768, Houston, Texas 77249-8768  
Tel (713) 692-9151 Fax (713) 696-6307

Attention: JG

**VOBB - VEROT OAKS BUILDING BLOCKS, INC.**  
P.O. BOX 62806  
Lafayette, LA 70596-2806  
P: 337-781-0705 F: 248/282-5175

W/O. No.: VOB001-03-27-35815  
Date: 4/10/2003  
P.O. No.:



Flexural Test.  
Seven foot (7') dry-stacked construction, VOBB CMU lintel.

STATE OF TEXAS  
Respectfully Submitted  
ERIC F. YOUNG  
76922  
PROFESSIONAL ENGINEER

Respectfully Submitted  
*Terry Wilt*  
Terry Wilt, Manager Product Evaluation

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Lafayette, LA 70596-2806  
P: 337-781-0705 F: 248/282-5175

W/O. No.: VOB001-03-27-35815  
Date: 4/10/2003  
P.O. No.:



Compression Test.  
Seven foot (7') dry-stacked construction, VOBB CMU lintel.

STATE OF TEXAS  
Respectfully Submitted  
ERIC F. YOUNG  
76922  
Eric F. Young  
PROFESSIONAL ENGINEER

Respectfully Submitted  
  
Terry Wilt, Manager Product Evaluation

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*Attention: JG*

**VOBB - VEROT OAKS BUILDING BLOCKS, INC.**

P.O. BOX 62806

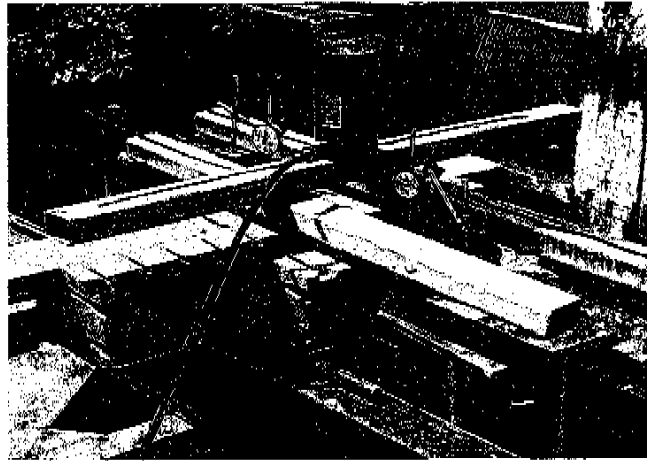
Lafayette, LA 70596-2806

P: 337-781-0705 F: 248/282-5175

W/O. No.: VOB001-03-27-35815

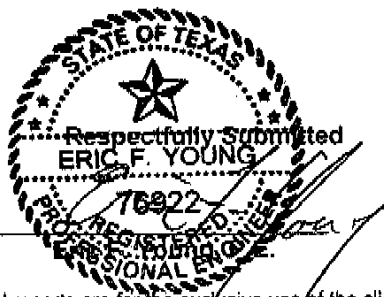
Date: 4/10/2003

P.O. No.:



Flexural Test.

Four foot (4') dry-stacked construction VOBB CMU lintel.



Respectfully Submitted

*Terry Wilt*  
Terry Wilt, Manager Product Evaluation

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Attention: JG

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P.O. BOX 62806

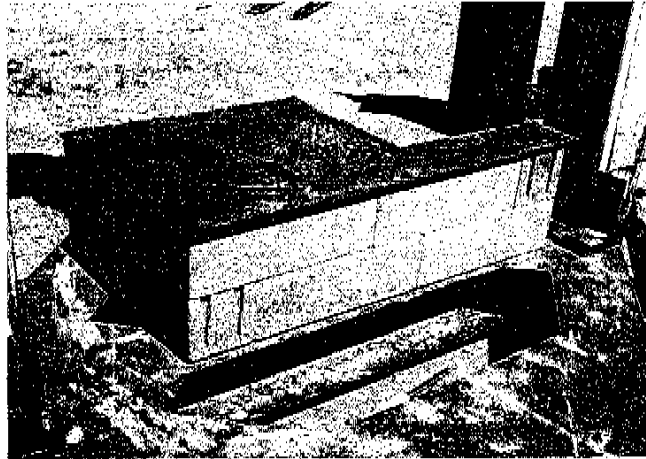
Lafayette, LA 70596-2806

P: 337-781-0705 F: 248/282-5175

W/O. No.: VOB001-03-27-35815

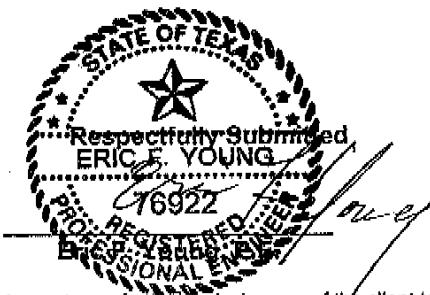
Date: 4/10/2003

P.O. No.:



Compression Test.

One foot (1') dry-stacked construction VOBB CMU corner wall.



Respectfully Submitted

*Terry Wilt*  
Terry Wilt, Manager Product Evaluation

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