

OVERVIEW

AcustiCrete™ Wall Systems

The AcustiCrete™ collection includes stone, brick and wood precast wall systems. Having an ambience of wood, brick, or stone, with deep texture on both sides, these modular concrete walls and fences satisfy a wide range of applications and tastes.

The AcustiCrete™ collection is a lightweight, pre-engineered wall system that uses interlocking panels and posts made of high-performance fiber and steel reinforced pre-colored concrete. The panels are 1 foot tall and 5 feet long and can be stacked to the desired height. A high-performance reinforced concrete mix, designed to yield optimum reliability and durability, further enhances the wall system. In addition, the tongue and groove construction provides seamless beauty and the ability to withstand wind, soil, and thermal movements.



The AcustiCrete™ collection offers two different systems. The [first system](#) is a lightweight, pre-engineered modular wall system that uses interlocking panels and posts made of high performance glass fiber and steel reinforced pre-colored concrete.

The [second system](#) is a heavy-duty, customized modular wall system that is well suited for "Design-build" projects. The system is made of pre-stressed (5000 PSI), reinforced concrete (ASTM A-185).

AcustiCrete™ Technical Information:

- Sound Transmission Class (STC) of 35
- National Precast Concrete Association (NPCA) Certified
- Dual sided texture, high strength, fiberglass and steel reinforced interlocking panels
- Integral color
- Maintenance free
- Fast and easy installation
- Five-Year Limited Warranty

OVERVIEW

AcustiCrete™ Wall Systems - **ASTM A-185**

The AcustiCrete™ ASTM A-185 system is a heavy-duty, customized modular wall system that is well suited for "Design- build" projects. The system is made of pre-stressed (5000 PSI) reinforced concrete (ASTM A-185). All connectors are hot dipped, galvanized steel. Custom silicone colors and stains are available for factory or field application.

The system allows for both local and state-by-state code, load and erection forces. All calculations for structural properties are in accordance with ACI 318 specification and all engineering drawings / construction documents can be stamped in all 50 states. Because of the innovative design of these systems, installation is easier and faster than other types of walls and fences yielding a reduced cost of install with fewer delays.



AcustiCrete™ **ASTM A-185** Technical Information:

- Sound Transmission Class (STC) of 35
- National Precast Concrete Association (NPCA) Certified
- Pre-stressed (5000 PSI) reinforced concrete (ASTM A-185) Integral color
- Available 1 or 2 sided formed patterns
- Well suited for "Design-Build" projects
- Maintenance free
- Fast and easy installation
- Five-Year Limited Warranty

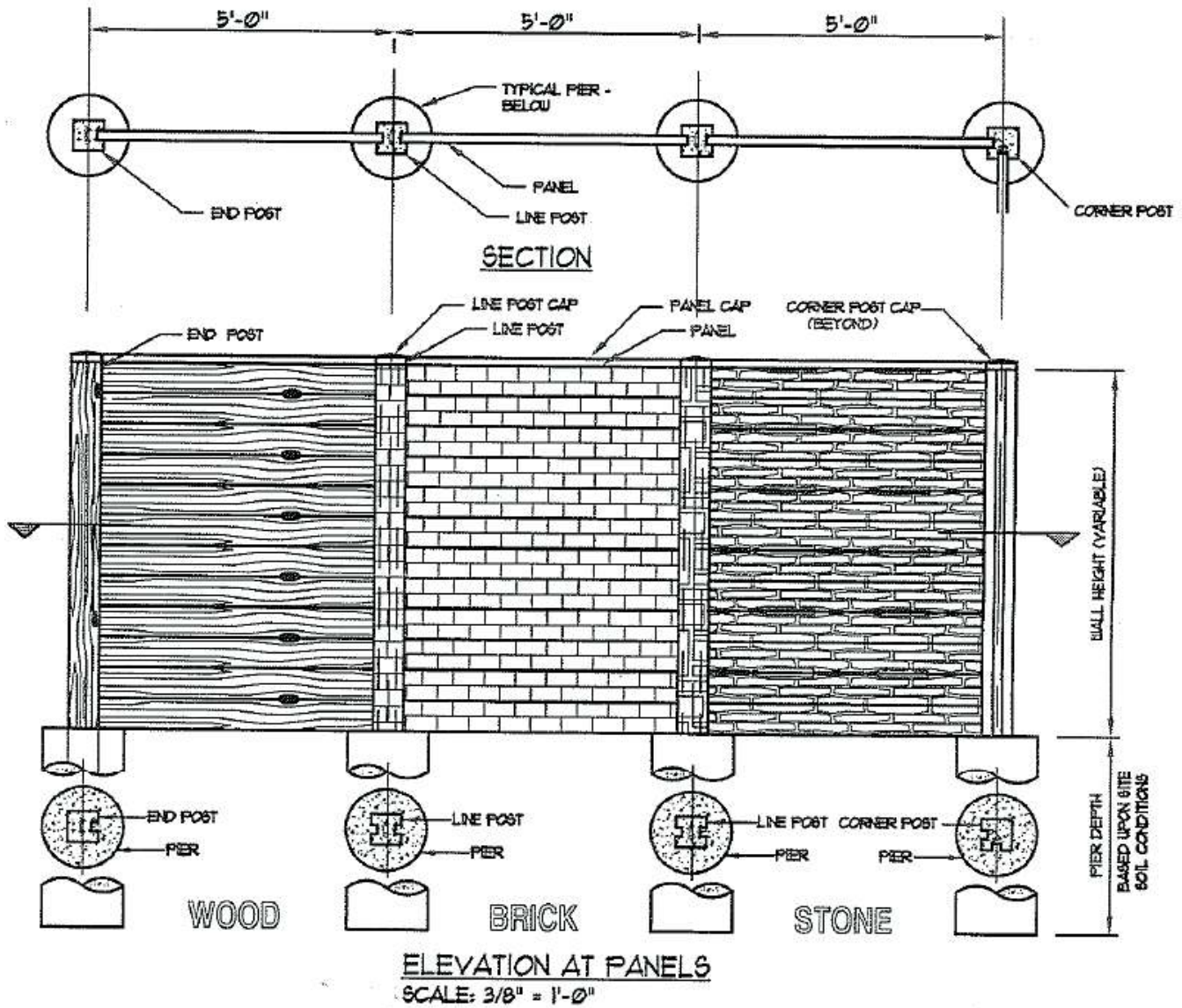
PHOTOS



PHOTOS



INSTALLATION AND ASSMBLY



1 3/4" x 1 1/4" DP
SLOT - TYP.

#4 REBAR, UNO.



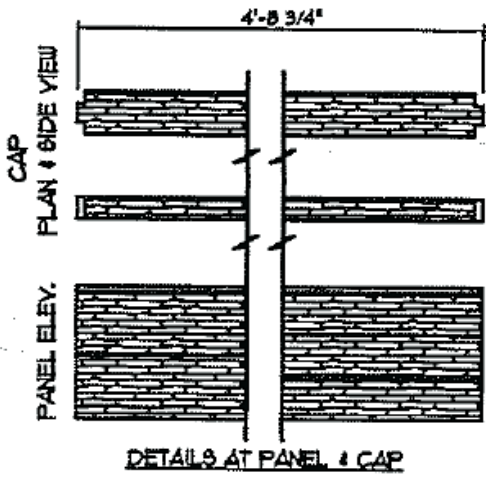
END POST

LINE POST

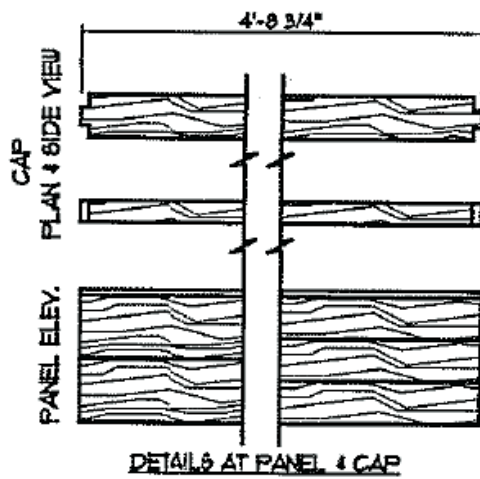
CORNER POST

POST SECTIONS AT PANELS

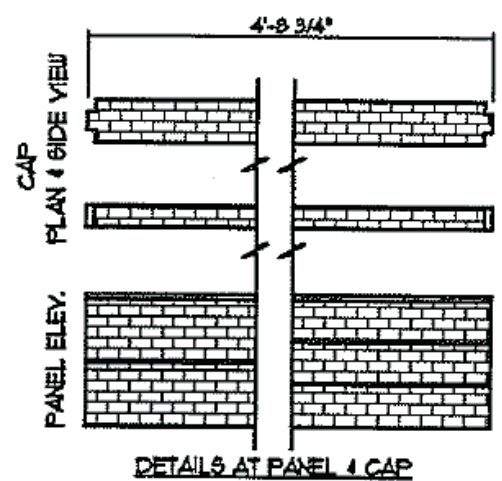
SCALE: 1/2" = 1'-0"



STONE



WOOD



BRICK

TEST & TECHNICAL DATA

WESTERN ELECTRO-ACOUSTIC LABORATORY, INC.
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26 April 1995

REPORT
SOUND TRANSMISSION LOSS TEST NO. TL95-146

CLIENT:

TEST DATE: 19 April 1995

INTRODUCTION

The methods and procedures used for this test conform to the provisions and requirements of ASTM Procedure E90-90, *Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions*. Details of the procedure will be furnished upon request. The test chamber source and receiving room volume are 79.9 and 78 cubic meters respectively. Western Electro-Acoustic Laboratory is accredited by the United States Department of Commerce, National Institute of Standards and Technology under the National Voluntary Accreditation Program (NVLAP) for this test procedure. This test report relates only to the item(s) tested. Any advertising which utilizes this test report or test data must not imply product certification or endorsement by WEAL, NVLAP, NIST or the U.S. Government.

DESCRIPTION OF TEST SPECIMEN

The test specimen was an American Technocrete Corporation precast concrete wall system. The specimen was assembled by inserting 12 inch (0.3 m) high steel reinforced, tongue and groove concrete panels down the tracks of two "T" shaped concrete posts spaced 5 feet (1.52 m) on center. On the tongue of each panel a thick bead of silicone was applied to seal into the groove of the next panel or top cap. After the specimen was assembled, a thick bead of silicone was applied to the vertical joints at the posts on one side of the specimen only. The specimen was sealed into the test chamber opening with a heavy duct seal putty around the entire perimeter on both sides. The net outside frame dimensions of the assembly were 64 inches (1.63 m) wide by 73 inches (1.85 m) high. The overall weight of the assembly was 842 lbs. (382 kg) for a calculated surface density of 26.0 lbs./ft² (127 kg/m²).

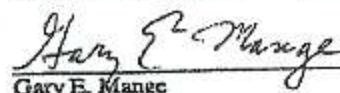
RESULTS OF THE MEASUREMENTS

One-third octave band sound transmission loss values are tabulated on the attached sheet. ASTM minimum volume requirements are met at 125 Hz and above. The Sound Transmission Class rating determined in accordance with ASTM E-413 was STC-35.

Approved:

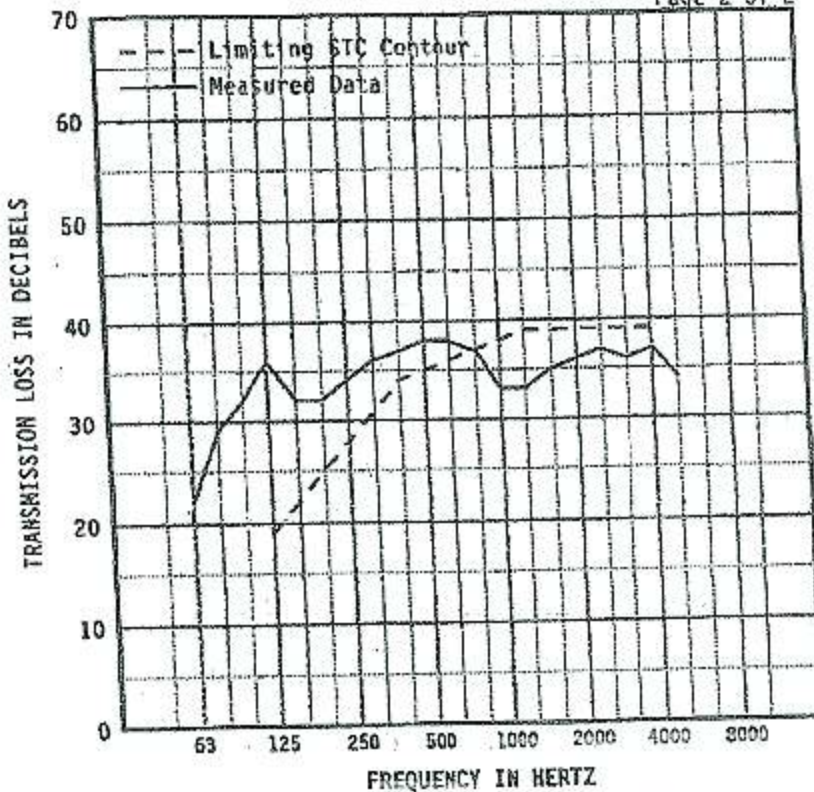

Jose C. Ortega
NVLAP

Respectfully submitted,
Western Electro-Acoustic Laboratory, Inc.


Gary E. Mange

ACCREDITED BY THE NATIONAL BUREAU OF STANDARDS, NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM FOR SELECTED TEST METHODS FOR ACOUSTICS.

WESTERN ELECTRO-ACOUSTIC LABORATORY, INC.
 Report No. TL95-146



1/3 OCT BND CNTR FREQ	63	80	100	125	160	200	250	315	400	500
TL in dB	22	29	32	36	32	32	34	36	37	38
95% Confidence in dB deficiencies	3.93	2.77	4.57	2.30	1.18	1.54	0.90	0.70	0.97	0.74
1/3 OCT BND CNTR FREQ	630	800	1000	1250	1600	2000	2500	3150	4000	5000
TL in dB	38	37	33	33	35	36	37	36	37	34
95% Confidence in dB deficiencies	0.61	0.51	0.48	0.73	0.43	0.53	0.42	0.39	0.47	0.44
		(0)	(5)	(6)	(4)	(3)	(2)	(3)	(2)	
EWR	OITC	Specimen Area: 32.44 sq.ft.								STC
40	35	Temperature: 70.7 deg. F								35
		Relative Humidity: 57 %								(25)
		Test Date: 19 April 1995								

NVLAP ACCREDITED BY THE NATIONAL BUREAU OF STANDARDS, NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM FOR SELECTED TEST METHODS FOR ACOUSTICS.

WHO WE ARE

Since its founding in 1989, **Acoustical Solutions Inc. (ASI)** has established a National reputation as a leader in environmental noise and vibration control. With the inception of our **Environmental Division**, ASI now offers a full line of products and services with a principal focus on Site Evaluation, Acoustical Studies, and Visual & Noise Barrier Systems for residential, commercial and industrial projects.

The ASI staff offers comprehensive expertise in: data analysis, modeling, policy and regulatory analysis, planning, value engineering and construction of physical and operational mitigation systems. As governmental agencies place increasing focus on inter-modal planning as well as design and development, we assist clients in the design and implementation of noise and vibration mitigation solutions for existing facilities and planned projects.

Since most noise problems involve both local government and the public sector, a key component of successful solutions is the effective communication of complex technical issues. Accurate and clearly presented information reduces governmental resistance, controversy and builds public consensus. ASI excels at making noise and vibration issues easily understood through presentations, demonstrations, graphics, the internet and written materials.

ASI is committed to providing the highest value in services and delivering innovative, cost effective solutions. Integrity, Leadership and Innovation are our cornerstones.

Our Mission

Acoustical Solutions is dedicated to improving the environments in which people live, work and play by providing the highest quality acoustical consulting services and products.

Acoustical Solutions for every environment of your life.

