STC TESTING
FOR
SUPERIOR PRODUCTS INTERNATIONAL II
ON
SINGLE WALL EXTERIOR COATED
VTEC #100-2251-1
TESTED: NOVEMBER 22, 2005

December 9, 2005

Client: Superior Products International II
10835 W. 78th Street
Shawnee, KS 66214

Attn: J.E. Pritchett

Subject: Measure sound transmission loss per ASTM E90, "Standard Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions."

Determine sound transmission class per ASTM E413, "Standard Classification for Determination of Sound Transmission Class."

DISCLAIMER:

This is a factual report of the results obtained from the laboratory test of sample products. The results may be applied only to the products tested and should not be construed as applicable to other similar products of the manufacturer. The report is not a recommendation or disapprobation by VTEC Laboratories Inc., of the material tested. While this report may be used for obtaining product acceptance, it may not be used in advertising.

NOTICE:

I. INTRODUCTION

The sound transmission loss of a partition in a specified frequency band is the ratio, expressed on the decibel scale, of the airborne sound power incident on the partition to the sound power transmitted by the partition and radiated on the other side. The ratio of two like quantities proportional to power of energy is expressed on the decibel (dB) scale by multiplying its common logarithm by ten.

II. TEST METHOD

The measurements were made in accordance with ASTM E90, “Standard Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions.” The sound transmission class, STC, was determined in accordance with ASTM E413, “Standard Classification for Determination of Sound Transmission Class.”

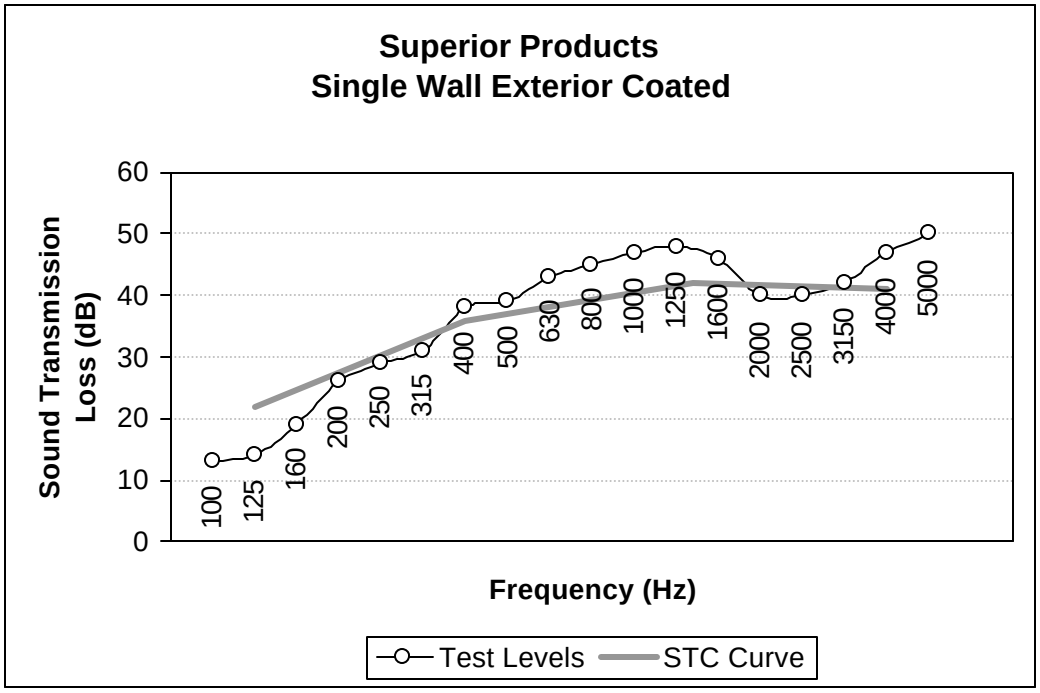
III. TEST SPECIMEN

The test specimen was a sheetrock and steel stud wall 8′ by 8′ by 5-7/8″ thick, consisting of 3-1/2″ “Supertherm” Batch 081805B coated steel studs, with 5/8″ thick sheet rock on both sides. The sheetrock toward the source room was coated with Supertherm Batch 081805B. The wall was installed for testing in an 8′ by 8′ test opening between the source room and the receiving room. After the walls were installed, the crack around the perimeter of the wall and the crack between the sheet rock panels were sealed with “Duxseal”. The wall was submitted for testing by VTEC Laboratories Inc., and was identified as “Test Wall no. 1, Single Wall Exterior Coated”. The weight of the specimen was 297 pounds. The test area was 64 square feet.

IV. RESULTS

Frequency (Hz)	TL	Deficiencies	Frequency (Hz)	TL	Deficiencies
100	13		800	45	0
125	14	-8	1000	47	0
160	19	-6	1250	48	0
200	26	-2	1600	46	0
250	29	-2	2000	40	-2
315	31	-3	2500	40	-2
400	38	0	3150	42	0
500	39	0	4000	47	0
630	43	0	5000	50	

Sound Transmissin Class, STC: 38



Neil Schultz
Executive Director

Amirudin Rahim
Technical Director