

Order No. 3162873

April 23, 2018

REPORT NO. 3162873CRT- 002b

**SOUND TRANSMISSION LOSS TEST
AND CLASSIFICATION OF ROOMS
CONSTRUCTED WITH CONCRETE FILLED
AMVIC INSULATED FORMS**

RENDERED TO

**AMVIC INCORPORATED
501 MCNICOLL AVENUE
TORONTO, CANADA M2H 2E2**

INTRODUCTION

This report gives the results of on-site Sound Transmission Loss Tests and Classification between rooms constructed with concrete filled Amvic, insulated forms. The testing was performed at the Amvic Incorporated facility located on 501 McNicoll Avenue, Toronto, Canada M2H 2E2.

AUTHORIZATION

Signed Intertek Quotation No. 500099864.

TEST METHOD

The test was conducted in general accordance with the American Society for Testing and Materials designations ASTM E336-07, "Standard Test Method for Measurement of Airborne Sound Attenuation between Rooms in Buildings", and classified in accordance with ASTM E413-04, entitled, "Classification for Rating Sound Insulation".

TEST METHOD – Cont'd.

The purpose of the Apparent Sound Transmission Class (ASTC) is to provide a single figure rating that can be used for comparing the sound-insulating properties of partition elements used for general building design purposes. The higher the (ASTC) the greater the sound insulating properties of the partition.

DESCRIPTION OF TEST SPECIMEN

The test specimen consisted of a wall separating two rooms, which were constructed using concrete filled Amvic insulated forms. The reinforced insulated wall sections were an overall 11 inches thick including the 6 inch thick concrete core. The curing period of the concrete was over 28 days. The interior dimensions of each room (source & receiving) were a nominal 13 ½ ft. X 13 ½ ft. X 9 ft. high. The rooms were empty, without furnishings.

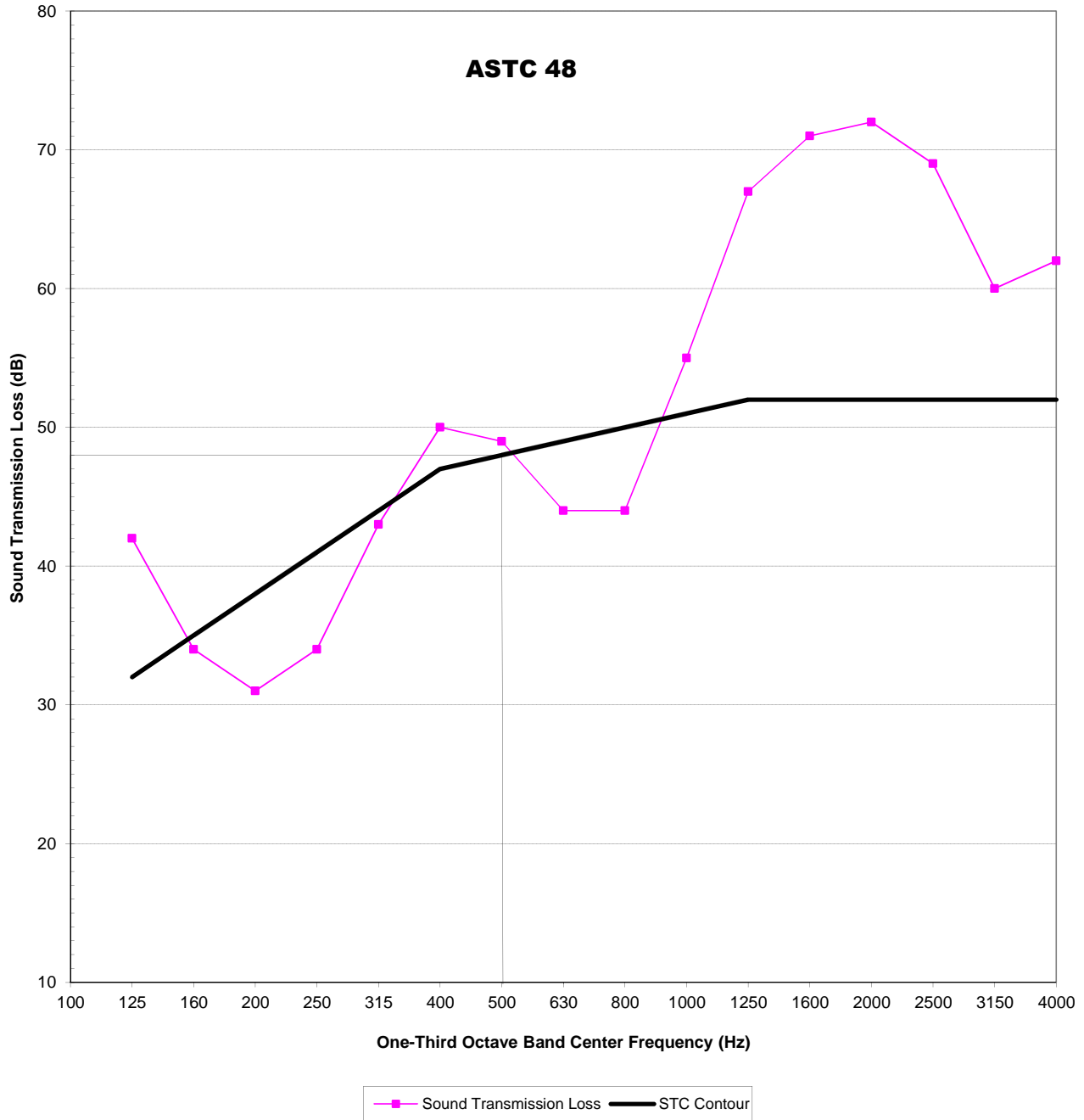
The source (outdoor) side of the tested dividing wall had a stucco finish. The stucco consisted of two base coats on either side of a fiber mesh and then a final coat. The receiving (indoor) side of the wall was covered with ½ inch thick sheetrock directly attached to the webs.

RESULTS OF TEST

1/3 Octave Band Center Frequency Hz	<u>Apparent Sound Transmission Loss in dB</u>
125	42
160	34
200	31
250	34
315	43
400	50
500	49
630	44
800	44
1000	55
1250	67
1600	71
2000	72
2500	69
3150	60
4000	62
Apparent Sound Transmission Class (ASTC)	48

**6 INCH THICK CONCRETE FILLED INSULATED FORMS WITH
STUCCO OUTSIDE / ½ INCH THICK SHEETROCK INSIDE**

Apparent Sound Transmission Loss



AMVIC INCORPORATED

CONCLUSION

The test method employed for this test has no pass-fail criteria, therefore, the evaluation of the test results is left to the discretion of the client.

Date of Test: October 30, 2008

Report Approved by:



Brian Cyr
Engineer
Acoustical Testing

Report Reviewed By:



James R. Kline
Engineer/Quality Supervisor
Acoustical Testing