

Sound Transmission Class Testing (ASTM E90)

INTRODUCTION:

This report presents the results of sound transmission testing conducted on CFS-PL Firestop Plugs. This material was manufactured and submitted by Hilti Construction. This work was requested by Mr. Jonathan Matthews of Hilti Construction with testing completed on December 15, 2011.

The Sound Transmission Class (STC) and the Outdoor-Indoor Transmission Class (OITC) values were generated under ASTM test procedures which outline methodology to determine Transmission Loss (TL) values between 80 Hz - 4000 Hz.

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TEST RESULTS SUMMARY:

<u>Test Description.</u>	<u>STC</u>	<u>def</u>	<u>OITC</u>
Control Wall	55	27	39
Control Wall with 4-1/2" diameter open penetration	35	32	33
Control Wall with penetration Sealed with a single Hilti CFS-PL Firestop Plug	55	32	39
Control Wall with penetration Sealed with dual Hilti CFS-PL Firestop Plugs	55	32	39

Hilti's CFS-PL Firestop Plugs SUCCESSFULLY SEALED the penetrations and maintained the original acoustical performance of the control wall.

Tabular and graphical presentations of the data are presented under "TEST DATA" below.