
Sound Transmission Class Testing (ASTM E90)

INTRODUCTION:

This report presents the results of acoustical testing of Hilti's CP 572 Smoke and Acoustic Spray. This testing was requested by Mr. Chad D. Stroike, CFPS and was completed on May 8th, 2013.

This report must not be reproduced except in full with the approval of Element Materials Technology. The test results contained in this report pertain only to the specific assemblies tested and not necessarily to all similar constructions.

Element has been accredited by the U.S. Department of Commerce and the National Institute of Standards and Technology (NIST, formerly NBS) under their National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 200046-0) for conducting this test procedure. This report may not be used to claim product endorsement by NVLAP, NIST or any agency of the U.S. Government.

The results stated in this report represent only the specific construction and acoustical conditions present at the time of the test. Measurements performed in accordance with this standard on nominally identical constructions and acoustical conditions may produce different results.

TEST RESULTS SUMMARY:

| | <u>STC</u> | <u>def</u> | <u>OITC</u> |
|--|------------|------------|-------------|
| Control Wall with sealed gypsum board Joints Hilti CP 572 | 53 | 23 | 31 |

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

**ASTM E 90 SOUND TRANSMISSION LOSS
TEST REPORT**

Rendered to:

HILTI, INC.

SERIES/MODEL: CP572

TYPE: Smoke & Acoustic Spray

| Summary of Test Results | | | |
|--------------------------------|---|------------|-------------|
| Data File No. | Description | STC | OITC |
| 99689.01A | Base wall, no gap | 59 | 46 |
| 99689.01B | Base wall with 96" by 2" gap open | 15 | 16 |
| 99689.01C | Base wall with 96" by 2" gap filled with 6 pcf mineral wool and CP572 sealant on one side | 56 | 44 |

Reference should be made to Architectural Testing, Inc. Report No. 99689.01-113-11 for complete test specimen description. The complete test results are listed in Appendix B.

**ASTM E 90 SOUND TRANSMISSION LOSS
TEST REPORT**

Rendered to:

HILTI, INC.

SERIES/MODEL: CP 572

TYPE: Smoke and Acoustical Spray

| Summary of Test Results | | | | |
|--------------------------------|--|------------|-----------|-------------|
| Data File No. | Sample Description | STC | Rw | OITC |
| 94874.01A | Chase wall with fluted deck openings not filled | 19 | 19 | 20 |
| 94874.01B | Chase wall with fluted deck openings filled with Hilti CP 777, 3" speed plugs, mineral wool | 47 | 47 | 41 |
| 94874.01C | Same as Test B, with 1/8" thick layer of CP 572, smoke and acoustical spray, applied to one side (source side) of fluted deck and CP 777, 3" speed plugs, mineral wool | 54* | 54* | 45* |

**Note: An STC, Rw, or OITC rating cannot be applied directly to sealant.*

Reference should be made to Architectural Testing, Inc. Report No. 94874.01-113-11 for complete test specimen description. The complete test results are listed in Appendix B.