Sound Transmission Class Testing (ASTM E90)

INTRODUCTION:

This report presents the results of acoustical testing of a CFS-SP SIL 2mm Joint Spray. This testing was requested by Mr. Chad Stroike of Hilti and was conducted on June 7, 2019. This testing was to show the comparison of results of a composite wall construction baseline and the ability of the CFS-SP SIL with mineral wool backer to maintain the STC Rating.

Testing summary, description, and photos are included in the report.

 The test results contained in this report pertain only to the specific assemblies tested and not necessarily to all similar constructions.

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:

		Test Results		
Test #	Condition	STC	*Def*	OITC
10*	Baseline Wall- Solid Concrete 48" x 48" x 6" in depth	**59**	29	51
11*	Solid Concrete 48" x 48" x 6" in depth - 3" x 30" Open Penetration	**19**	30	20
1	Solid Concrete 48" x 48" x 6" in depth - 3" x 30" Penetration filled with 4" mineral wool insulation and 2mm of CFS-SP SIL Joint Spray.	**57**	32	40
2	Solid Concrete 48" x 48" x 6" in depth - 3" x 30" Penetration filled with 6" mineral wool insulation and 2mm of CFS-SP SIL Joint Spray.	**59**	26	50

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

***Notes:** Tests #10 and #11 listed in this report were conducted on February 20th, 2019 under Element Project # ESP030169P and are to be used as a baseline comparison. The construction of the composite filler wall was identical to that used on June 7th, 2019.