

Sound Transmission Class Testing (ASTM E90)

INTRODUCTION:

This report presents the results of acoustical testing of Hilti's CP-680 Cast In Firestop Device. This testing was requested by Mr. Chad D. Stroike, CFPS and was completed on March 14, 2014.

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.

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>
Test 1:			
Control Wall / Baseline	55	30	42
Test 2: Control Wall with CP-680 6" Precast Device and			
6" PVC Pipe	56	28	40
Test 3: Control Wall with CP-680 6" Precast Device and			
6" Steel Pipe	56	28	44
Test 4: Control Wall with CP-680 4" Precast Device and			
4" PVC Pipe	54	25	44
Test 5:			
Control Wall with CP-680 4" Precast Device and 4" Steel Pipe	55	25	44
Test 6: Control Wall with CP-680 3" Precast Device and			
3" PVC Pipe	55	28	44
Test 7:			
Control Wall with CP-680 3" Precast Device and 3" Steel Pipe	55	30	41
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TEST RESULTS SUMMARY (continued):

	<u>STC</u>	<u>def</u>	<u>OITC</u>	
Test 8: Control Wall with CP-680 2" Precast Device and 2" PVC Pipe	54	27	42	
Test 9: Control Wall with CP-680 2" Precast Device and 2" Steel Pipe	54	25	43	
Test 10: Control Wall with CP-680 2" Precast Device and 1 1/2" PVC Pipe	55	31	42	
Test 11: Control Wall with CP-680 2" Precast Device and 1 1/2" Steel Pipe	54	29	44	
Test 16: Control Wall with CP-680 2" Precast Device and 1/2" Pipe wrapped in Fiberglass Insulation	55	23	45	
Test 17: Control Wall with CP-680 2" Precast Device and 2" Wire Bundle	53	30	44	

Tabular and graphical presentations of the data are presented under "TEST RESULTS" below. Individual wall constructions are listed below.

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