



# COMPLIANCE TESTED by berkeley analytical

## VOC Emission Test Certificate

**Product Name: CP777**

Product Sample Information		Certificate Information	
Company:	Hilti Inc.	Certificate No:	180326-02
Company Website:	www.hilti.com	Certified By:	 Raja S. Tannous, Laboratory Director
Product Type:	Firestop plugs for decking flutes	Date:	March 26, 2018
Date Produced:	2/14/2018		

**Reference Standard:** California Department of Public Health CDPH/EHLB/Standard Method Version 1.2, 2017 (Emission testing method for CA Specification 01350)

### Acceptance Criteria and Results Demonstrating Compliance of Product Sample to Referenced Standard:

Exposure Scenario <sup>1</sup>	Individual VOCs of Concern <sup>2</sup>		Formaldehyde <sup>3</sup>		TVOC <sup>4</sup>
	Criterion	Compliant?	Criterion	Compliant?	Range
School Classroom	≤½ Chronic REL	YES	≤9.0 µg/m <sup>3</sup>	YES	≤ 0.5 mg/m <sup>3</sup>
Private Office	≤½ Chronic REL	YES	≤9.0 µg/m <sup>3</sup>	YES	≤ 0.5 mg/m <sup>3</sup>

**Product Coverage<sup>5</sup>:** Not applicable

1. Exposure scenarios & product quantities for classroom & office are defined in Tables 4-2 – 4-5 (CDPH Std. Mtd. V1.2-2017)
2. Maximum allowable concentrations of individual target VOCs are specified in Table 4-1 (*ibid.*)
3. Maximum allowable formaldehyde concentration is ≤9 µg/m<sup>3</sup>, effective Jan 1, 2012; previous limit was ≤16.5 µg/m<sup>3</sup> (*ibid.*)
4. Informative only; predicted TVOC Range in three categories, i.e., ≤0.5 mg/m<sup>3</sup>, >0.5 – 4.9 mg/m<sup>3</sup>, and ≥5.0 mg/m<sup>3</sup>
5. Informative and applicable only to tests of wet-applied products; grams of sample applied per square meter of substrate

### Standards & Codes Recognizing CDPH Standard Method V1.2 (partial list)

- USGBC LEED Version 4, BD&C, ID&C
- The WELL Building Standard
- ANSI/GBI 01, Green Building Assessment Protocol
- CALGreen, CA Code of Regulations Title 24, Part II

**Narrative:** Hilti Inc. selected a sample representative of its CP777 product and submitted it on 2/26/2018 for testing. Berkeley Analytical measured and evaluated the emissions of VOCs from this sample following CDPH/EHLB/Standard Method V1.2-2017. The results of the test are presented in Berkeley Analytical report, 1031-001-01A-Mar2618. The technical data sheet showing the application for which the test results were evaluated is attached.

**Berkeley Analytical** is an independent, third-party laboratory specializing in the analysis of organic chemicals emitted by and contained in building products, finishes, furniture, and consumer products. We are an ISO/IEC 17025 accredited laboratory (IAS, [TL-383](#)); all standards used in performing this test are in Berkeley Analytical's scope of accreditation.

**DISCLAIMER:** THIS CERTIFICATE OF COMPLIANCE AFFIRMS THAT: 1) A SAMPLE OF THE LISTED PRODUCT WAS TESTED ACCORDING TO THE REFERENCED STANDARD; 2) THE MEASURED VOC EMISSIONS FROM THE SAMPLE WERE EVALUATED FOR THE DEFINED EXPOSURE SCENARIO(S); AND 3) THE RESULTS MEET THE ACCEPTANCE CRITERIA OF THE REFERENCED STANDARD(S). BERKELEY ANALYTICAL IS NOT RESPONSIBLE FOR ANY CLAIMS REGARDING A PRODUCT OR PRODUCTS ENTERED INTO COMMERCE THAT MAY BE BASED ON THIS TEST. BERKELEY ANALYTICAL PROVIDES THIS CERTIFICATE OF COMPLIANCE "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PURPOSE.

**Speed Strips  
(CP 767)**

**Speed Plugs  
(CP 777)**

**Product description**

- CP 777: Pre-formed mineral wool plugs for 1.5", 2" and 3" decks
- CP 767: Pre-formed mineral wool strips suitable for joint applications

**Product features**

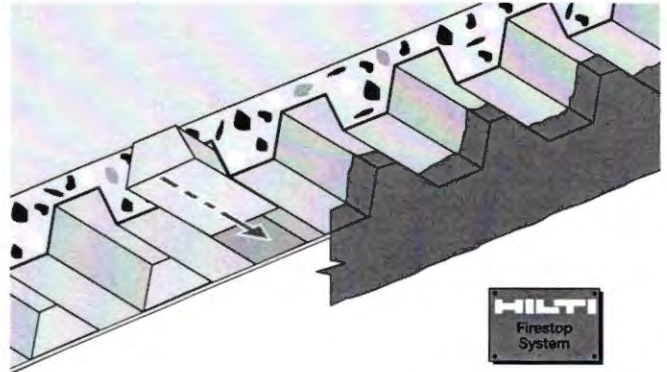
- Pre-cut to industry standard size decking flutes
- Reduces material waste
- 3 sizes available
- Pre-cut — leaves no gaps or voids
- Smooth surface provides cost effective spray coverage
- Safe to use — no asbestos/inorganic, will not mildew
- Up to 60% faster than castle cutting!

**Areas of application**

- Top-of-wall

**Tested and approved**

- UL Classified when used in conjunction with CP 606 Flexible Firestop Sealant, CP 601S Elastomeric Firestop Sealant, CP 672 Speed Spray, or CFS-SP WB Firestop Joint Spray

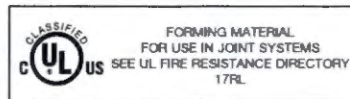


**Technical Data**

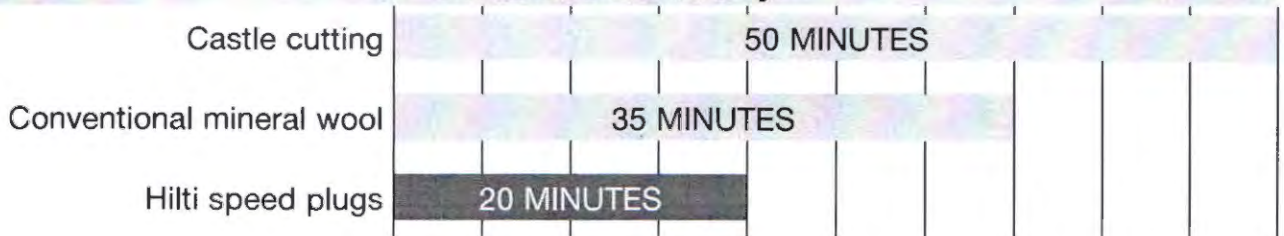
**CP 767 and CP 777**

**Tested in accordance with**

- UL 2079
- ASTM E 1966
- ASTM C G12 Type I-IUB



**Saves time and money!**



60% Faster than castle cutting

43% Faster than conventional mineral wool

\*Based upon 40 linear feet of installation. Actual results may vary.

**Installation instructions for CP 777**

**Notice**

- Before handling, read Material Safety Data Sheet and product label for safe usage and health information.
- Instructions below are general guidelines — always refer to the applicable drawing in the UL Fire Resistance Directory or Hilti Firestop Systems Guide for complete installation information



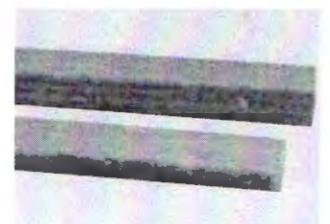
Easy one step installation — simply cut to length and install.



Full coverage pre-cut flute configuration leaves no gaps or voids.



Superior finish smooth surface allows quick and cost effective coverage with Hilti CFS-SP WB Firestop Joint Spray.



Easy to utilize — Speed Strips in joints between wall substrate and bottom of deck, Compress per UL System.



**Hilti. Outperform. Outlast.**