

Manufacturer's Certificate of Compliance – VOC emissions

CertainTeed Architectural certifies that the related products noted below are of similar manufacturing process and formulation as the product that was tested by the independent testing laboratory, Berkeley Analytical on June 3, 2019.

Tested product: Protectone Fine Fissured Customline (PFFCL-224)

Products of similar manufacturing and formulation: Protectone Avalon, Protectone Baroque, Protectone Baroque Customline, Protectone Cashmere, Protectone Directional Fissured, Protectone Fine Fissured, Protectone School Board

The test sample noted was provided for testing as representative of a CertainTeed Architectural Protectone Fine Fissured Customline acoustic ceiling panel. Berkeley Analytical measured and evaluated the emissions of volatile organic compounds (VOCs) from this sample according to California Department of Health Services "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers Version 1.2" (aka, chamber testing portion of CA Section 01350 or CDPH/EHLB/Standard Method Version 1.2, 2017). The details of the testing and performance are presented in Berkeley Analytical laboratory report, 281-028-03A-Jun0319. The Certificate of Compliance pursuant to that laboratory report is attached. The actual report is available upon request.

The testing results are compliant with emission requirements for VOCs in the standard classroom and office modeling scenarios as defined by the above referenced testing protocol. Because of the similarity of manufacturing and formulation between the tested product and those also noted above and because of the quality controls placed upon those processes, all products listed above will meet the VOC emission performance in the referenced test report.

Dated: June 5, 2019

Robert L. Marshall

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CERTAINTEED ARCHITECTURAL

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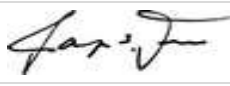


COMPLIANCE TESTED by berkeley analytical

VOC Emission Test Certificate

Product Name: PFFCL 224 - 639410

| Product Sample Information | |
|----------------------------|----------------------------------|
| Company: | CertainTeed Ceilings Corporation |
| Company Website: | www.certainteed.com |
| Product Type: | Ceiling (all types) |
| Date Produced: | 5/8/2019 |

| Certificate Information | |
|-------------------------|---|
| Certificate No: | 190603-04 |
| Certified By: |  Raja S. Tannous, Laboratory Director |
| Date: | June 3, 2019 |

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

Product Coverage⁵: 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/m³, effective Jan 1, 2012; previous limit was ≤16.5 µg/m³ (*ibid.*)
4. Informative only; predicted TVOC Range in three categories, i.e., ≤0.5 mg/m³, >0.5 – 4.9 mg/m³, and ≥5.0 mg/m³
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
- Green Guide for Healthcare V2.2

Narrative: CertainTeed Ceilings Corporation selected a sample representative of its PFFCL 224 - 639410 mineral fiber acoustical ceilings product and submitted it on 5/9/2019 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, 281-028-03A-Jun0319.

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.