

**MODIFIED ASTM E108
CLASS A TESTING
FOR ARCHATRAK
ON
ARCHATRAK IPE WOOD DECK TILES ON
'INCENDIO' STEEL PAVER SUPPORTS
VTEC #100-8088-4
TESTED: JULY 5, 2024**



VTEC Laboratories Inc.

July 9, 2024

Client: Archatrak
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Attention: Alex Maier

SCOPE: This report contains the reference to the test method, sample descriptions, test descriptions, the material tested, test results, and observations.

TEST METHOD: This test was conducted in accordance with Modified ASTM E108, Class A specification.

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SAMPLE DESCRIPTIONS: Archatrak Ipe Wood Deck Tiles on 'Incendio' Steel Paver Supports

One wooden decks 20" by 36" and one wooden deck 20" by 72" was constructed by VTEC Laboratories Inc. for Intermittent Flame Exposure Test and Spread of Flame Test. 3" high 'Incendio' Steel Paver Supports were installed on top of the plywood top of the wooden deck spaced out to accommodate the Wooden Pavers. The IPE Wood Deck Tiles were laid upon the 'Incendio' Steel Paver Supports with a pedestal in each corner.

TEST DESCRIPTIONS:

Intermittent Flame Exposure Test:

The flame was applied intermittently for specified periods with specified time intervals between applications. For Class A, the flame was "On" for 2 min., and "Off" for 2 min. The number of test cycles was fifteen. The air current was applied to the sample continuously throughout the test and after the last cycle until all evidence of flame, glow, and smoke has disappeared from both the exposed surface of the sample and the underside of the test deck. The flame temperature was 1400 deg F.

Spread of Flame Test:

The gas flame and air current were applied to the sample continuously for a period of 10 minutes. The flame temperature was 1400 deg F.

Burning Brand Test:

A wooden brand was fabricated according to Fig. 5, Class A Brand, of the ASTM E 108 specification. The brand was made of 36 pieces of 3/4" by 3/4" by 12" long strips of wood, which were assembled in a crisscross pattern, with 12 strips of 3 layers.

The brand was well lit and placed in the center and on top of the test sample. The brand was allowed to burn to completion.

The air current was applied to the sample continuously throughout the test.

MATERIAL TESTED:

- | | |
|-----------------------------|---|
| 1) Supplier: | Archatrak |
| 2) Product Description: | Archatrak Ipe Wood Deck Tiles on ‘Incendio’ Steel Paver Supports |
| 3) Number of Specimens: | One of each test |
| 4) Material Description By: | Supplier |
| 5) Date of Selection: | May 2024 |
| 6) Purpose of Test: | Fire Test of Roof Coverings |
| 7) Class of Test: | A |
| 8) Size of Sample: | Intermittent Flame Exposure:
56”x 20”
Spread of Flame Test:
72”x 20” |

TEST RESULTS:**Intermittent Flame Exposure Test:**

The Archatrak Ipe Wood Deck Tiles on ‘Incendio’ Steel Paver Supports met all the Class A requirements of ASTM E108 for the Intermittent Flame Exposure Test.

Observations:

There was some flaming on the exposed side of the sample when the flame was on, which extinguished when the flame was removed.

There was no flaming on the exposed side or underside of the sample.

Spread of Flame Test:

The Archatrak Ipe Wood Deck Tiles on ‘Incendio’ Steel Paver Supports met all the Class A requirements of ASTM E108 for the Spread of Flame test.

Observations:

Flaming began on the surface of the coated board at 3 minutes and 5 seconds which reached a maximum distance of 24 inches at 5 minutes and 34 seconds.

Burning Brand Test:

The Archatrak Ipe Wood Deck Tiles on 'Incendio' Steel Paver Supports did not meet the Class A requirements of ASTM E108 for the Burning Brand test.

Observations:

At approximately 3 minutes, the Ipe Wood Deck Tiles was on fire. At approximately 7.5 minutes, glowing embers began to fall from the Ipe Wood Deck Tiles onto the plywood on top of the test deck. At approximately 9 minutes, the top of plywood was on fire. At approximately 10 minutes, the underside of the plywood was on fire.



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