

Fiberon® Horizon™ Decking with PermaTech™ Innovation

Fiberon® Horizon™ Decking, introduced by Fiber Composites in the fall of 2008 represents a major breakthrough product introduction for the composite/alternate decking marketplace. Incorporating patent pending PermaTech™ innovation, enabled by a high performance surface material, Horizon decking provides ultimate performance in stain, fade and scratch resistance. During the development of Horizon decking, Fiber Composites completed a wide array of performance testing to determine the long term performance of the product when subjected to the elements. The results of these tests provide dramatic proof that Fiberon Horizon decking is a highly durable product that can provide superior long term performance for use as an exterior deck board. Fiber Composites stands behind Horizon decking with a 20 year warranty against checking, splintering, delamination, rotting, and structural damage from fungal decay. Horizon is also backed by an additional 10 Year Stain and Fade Resistant Warranty, an exclusive in the composite decking industry.

TECHNICAL BULLETIN #1

Fiberon® Horizon™ Decking Surface Adherence Submersion Test Data Results

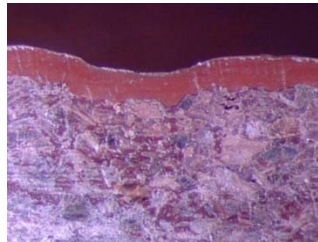
TEST DESCRIPTION: 70° F and 150° F Full Submersion Test

The submersion test involves testing the Horizon decking samples fully submerged in water. The temperature of the water is held constant during the period of the test. Tests are conducted at 70° F and 150°F. Samples are held in submersion for 30 days, with weekly checks to determine whether delamination of the product occurs as a result of the submersion test.

OBSERVATION:



Photo of Horizon board after 30 day Submersion Test



Magnified photo of Fiberon Horizon decking shows cross-linked adherence to composite core.

Repetitive test have resulted in no delaminating of the Fiberon Horizon decking surface at the edge locations, perimeters or at any point of the product face.



The Horizon decking surface is not compromised.

CONCLUSION: Continued submersion of Horizon Decking in for 30 days in 70°F and 150°F water did not result in any reduction of adherence between the Fiberon Horizon decking surface and core materials of Horizon Decking. The Fiberon Horizon decking surface shares molecular bonding with the composite core which did not fail or delaminate when fully submerged in both ambient temperature water and artificially extreme heat environments.

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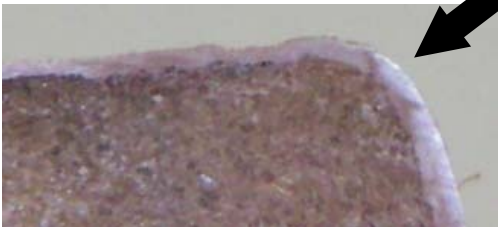
TECHNICAL BULLETIN #2

Fiberon® Horizon™ Decking Surface Adherence - High Heat & Humidity Test Data Results

TEST DESCRIPTION: Destructive High Heat/High Humidity Test

The test involves suspending samples directly above, but not immersed into, 150F water for 30 days. The primary purpose of the test is to determine a products ability to resist the effects of high humidity and elevated temperatures on a building material. The extreme conditions generated by this test exceed any heat and humidity conditions that this product would be subject to under normal use applications.

OBSERVATION:



No delaminating occurs between the Fiberon Horizon decking surface and core material. The Fiberon Horizon decking surface remains fully adhered in this extremely aggressive high heat/high humidity test.

CONCLUSION: The use of co-extrusion to adhere similar materials results in a high level of surface-to-core adhesion. Test illustrates that the Fiberon Horizon decking surface can withstand punishing elevated levels of humidity and 150°F (66° C) temperature without measured loss of adherence. This is a destructive test designed to initiate degradation/failure of the composite core. All brands of polymer/cellulosic composite decking experience some level of core degradation in this test.

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TECHNICAL BULLETIN #3

Fiberon Horizon Decking Surface Adherence Soak/Freeze/Thaw Test Data Results

TEST DESCRIPTION: High Frequency Soak/Freeze/Thaw Test

The test involves soaking a sample of Horizon decking in room temperature water for 3-6 hours, immediately freezing the sample for a minimum of four hours, then thawing the board and repeating the cycle. The test results reflected here are the results of 50 freeze/thaw cycles. The test results reflected here represent five years of high frequency testing and counting. (Note: A season of “High Frequency” freeze/thaw cycling is described in a American Geophysical Union report in 2003 as ten cycles per season)

OBSERVATION:



No delamination occurs between the Fiberon Horizon decking surface and core material. The Fiberon Horizon decking surface remains fully adhered in this extremely aggressive HIGH FREQUENCY FREEZE THAW test.



After 50 Soak/Freeze/Thaw cycles the adherence of the Fiberon Horizon decking surface is undiminished. No delamination has been observed in the Fiberon Horizon decking surface and core stock throughout this test protocol.

CONCLUSION: Repeated freeze thaw cycles do not affect the adherence of Fiberon Horizon decking surface to the Horizon deck board’s composite core.