

GreenGuard[®] Technical Bulletin #8

DC14 Drainage Mat / RainDrop[®] 3D Building Wrap

Compliance With Drainage Efficiency Requirements

General

Kingspan GreenGuard[®] DC14 Drainage Mat and Kingspan GreenGuard[®] RainDrop[®] 3D Building Wrap were evaluated in accordance with ASTM E 2273 and were found to meet the minimum 75% drainage efficiency requirements of the Oregon Amendment 918-480 0010(8) (a) (b). The following information is intended to provide specific details regarding the Amendment, test methodology and the test results.

The Amendment

On October 1, 2009, the State of Oregon, Building Codes Division published a Notice of Permanent Ruling that includes an amendment to the 2008 Oregon Residential Specialty Code. The Amendment establishes drainage performance requirements for the building envelope. As amended, Section 703.1 requires a building envelope to consist of an exterior veneer, a water-resistive barrier, a minimum 1/8" gap, and integrated flashings, which when properly assembled, provide a means of draining water that enters the wall assembly. Several exceptions have been provided to address the varying types of materials and applications. For example, a space is not required where the exterior veneer is installed over a water-resistive barrier complying with Section R703.2, which is manufactured in a manner to enhance drainage, like Kingspan GreenGuard[®] DC14 Drainage Mat and Kingspan GreenGuard[®] RainDrop[®] 3D Building Wrap [Section 918-480-0010(8) (a) (b), Exception 1].

The Performance Requirements

The drainage product must be installed and evaluated in a wall assembly in accordance with ASTM E 2273 [Standard Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Wall Assemblies]. This test is designed to allow for the introduction of water into a wall assembly for the purpose of evaluating the drainage efficiency of the drainage product or system when exposed to a continuous water spray. The EIFS cladding is ideal for use in this test, since it restricts the amount of water that can escape through the face of the wall assembly, whereas claddings such as lapped siding may allow some water to escape through the laps, making it impossible to measure the actual drainage of the product or system. The Oregon Amendment requires that wall assemblies have a minimum drainage efficiency of 75% when evaluated in accordance with ASTM E 2273 or other recognized national standards.

Test Results

Kingspan GreenGuard[®] DC14 Drainage Mat and Kingspan GreenGuard[®] RainDrop[®] 3D Building Wrap were evaluated by an independent, third-party test laboratory in accordance with ASTM E 2273, which requires an EIFS-type exterior cladding that incorporates a cementitious base coat applied over the drainage product or system. The results indicate that Kingspan GreenGuard[®] DC14 Drainage Mat drained 93.0% of the water that was introduced into the wall assembly, while the Kingspan GreenGuard[®] RainDrop[®] 3D Building Wrap drained 90.7%. These results clearly confirm that Kingspan GreenGuard[®] DC14 Drainage Mat and Kingspan GreenGuard[®] RainDrop[®] 3D Building Wrap have drainage efficiencies that are significantly greater than the minimum Amendment requirement of 75%.



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Kingspan Insulation LLC

2100 Riveredge Parkway | Suite 175
Atlanta | Georgia 30328

T: +1 (800) 241 4402 F: +1 (678) 589 7325

E: info@kingspaninsulation.us

www.kingspaninsulation.us

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