



Huber Engineered Woods Publication Z-1

Test Method 1. Water Penetration Resistance of ZIP System® Panels

General

This test method provides evaluation of the water penetration resistance of ZIP System Panels.

Specimen preparation

Three test specimens, in the dimension of 6 inch x 6 inch, shall be taken from the structure in question. All test specimens shall be preconditioned at 23 +/- 2°C and 50 +/- 5% relative humidity until constant weight is attained. Constant weight shall be assumed when consecutive readings taken at least 24 hours apart agree within 0.2%.

Test procedure

All preconditioned specimens shall be tested in accordance with the water ponding test method as outlined in CCMC-07102, Section 6.4.5 with the exception that the inner diameter of the ring shall be 3 inches (76.2 mm).

Conditions of acceptance

No water seepage shall be observed through the system during the water ponding test.

Test Method 2. ZIP System™ Tape Adhesion

General

This test method provides evaluation of the adhesion of ZIP System Tape to ZIP System Panels.

Specimen preparation

Five taped ZIP System panel test specimens, in the dimension of 1 inch x 10 inch, shall be prepared from the structure in question. All test specimens shall be preconditioned at 23 +/- 2°C and 50 +/- 5% relative humidity until constant weight is attained. Constant weight shall be assumed when consecutive readings taken at least 24 hours apart agree within 0.2%.

Test procedure

All preconditioned specimens shall be tested in accordance with ASTM D3330, Method F for the 90°-peel adhesion.

Conditions of acceptance

The averaged test result is at least 1.5 pli (pounds per inch width).

Test Method 3. Water penetration resistance of ZIP System® Taped Joints

General

This test method provides evaluation of the water penetration resistance of ZIP System taped joints.

Specimen preparation

Three test specimens, in the dimension of 6 inch x 6 inch with the ZIP System taped joint in center, shall be prepared from the structure in question. All test specimens shall be preconditioned at 23 +/- 2°C and 50 +/- 5% relative humidity until constant weight is attained. Constant weight shall be assumed when consecutive readings taken at least 24 hours apart agree within 0.2%.

Test procedure

All preconditioned specimens shall be tested in accordance with the water ponding test method as outlined in CCMC-07102, Section 6.4.5 with the exception that the inner diameter of the ring shall be 3 inches (76.2 mm) and the ring shall be positioned in the center of the taped joint.

Conditions of acceptance

No water seepage shall be observed through the membrane during the water ponding test.

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Test Method 4. Air Penetration Resistance of ZIP System® Panels and Taped Joints

General

This test method provides evaluation of the air penetration resistance of ZIP System panels and taped joints.

Specimen preparation

Five test specimens, in the dimension of 3 inch x 3 inch, shall be prepared for both the ZIP System panels and the taped joints respectively, from the structure in question. The joint shall be located at the center of the taped joint specimen. All test specimens shall be preconditioned at 23 +/- 2°C and 50 +/- 5% relative humidity until constant weight is attained. Constant weight shall be assumed when consecutive readings taken at least 24 hours apart agree within 0.2%.

Test procedure

All preconditioned specimens shall be tested in accordance with the testing provisions outlined in TAPPI T460 om-06, *Air resistance of paper (Gurley method)*. The thickness of the specimen may need to be reduced in order to fit the specimen in the Gurley densometer appropriately. Air-tight sealing gasket may be used to eliminate the air leakage through the textured surface.

Conditions of acceptance

The average Gurley time (seconds/100cc) should be greater than 1,800 seconds.

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