

Perform Guard No. 6007

Subject: Foam Material Properties

Date: January 2008 (Revised January 2019)

R-Control SIPS has developed a proprietary treatment for Molded Polystyrene which makes it resistant to termites. The product is R-Control SIPS with Perform Guard®. Testing has been done both in the laboratory and field.

In addition to field and laboratory exposure tests, R-Control SIPS has conducted plant processing procedures, physical property testing, and coordinated system compatibility studies.

Processing Procedures

R-Control SIPS, in cooperative work with its licensed facilities, has developed the processing techniques for the manufacture of Perform Guard product that meets or exceeds the requirements of ASTM C578, "Standard Specification For Rigid, Cellular Polystyrene Thermal Insulations".

Physical Tests

Underwriters Laboratories has evaluated R-Control SIPS with Perform Guard for physical performance under appropriate ASTM Standards. Flexural Testing (ASTM C203) of Perform Guard showed strengths equal to or greater than minimum standards. Compressive Testing (ASTM C165) showed strengths equal to or greater than minimum standards. Density Testing (ASTM C303) showed densities equal to or greater than minimum standards. Perform Guard is a listed UL material.

In-Plant Testing

The Quality Assurance procedures of R-Control SIPS's Third Party Quality Control Program call for in-plant testing of each lot of material. R-Control SIPS had testing Perform Guard under the guidelines of UL QC Program. These tests qualify daily production runs of R-Control SIPS with Perform Guard to the critical standards of ASTM C578.

Fire Performance

R-Control SIPS submitted R-Control SIPS with Perform Guard samples to Underwriters Laboratories for fire evaluation. UL 723 "Test for Surface Burning Characteristics of Building Material" tests (also known as ASTM E84) were run. The results showed that R-Control SIPS with Perform Guard has a similar flame spread and smoke developed rating, when compared to industry standard. Addition full scale testing conducted on systems, such as R-Control SIPS Structural Insulated Panels, using R-Control SIPS with Perform Guard, demonstrated passing fire performance.

Systems Compatibility

Compatibility studies by various adhesive manufacturers and independent laboratories have shown that adhesive laminations using Perform Guard do not differ from untreated molded polystyrene foam. Corrosion testing, using the Kesternich Cabinet procedure, has shown no corrosion to metal.

Note: R-Control SIPS with Perform Guard has been tested against termites. A list of specific species on file. R-Control SIPS with Perform Guard is not a barrier system, but should be used as a component in a total insect management program.



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