I-380 Rest Area

Application

4,000 square feet of Foam-Control® PLUS+® 150 was installed as perimeter and underslab insulation along the foundation of the new I-380 rest area in Cedar Rapids, Iowa.

Project Details

Summer 2011, architects originally specified XPS Type IV 25psi. However, Foam-Control® PLUS+® 150 was substituted in lieu of XPS because of its superior real world performance. After architects attended an AIA workshop about a 15-year real-world study conducted by Stork Twin Laboratories which proved that EPS performs better than XPS in below-grade applications, EPS was substituted for the project.

The 15-year real-world test showed that EPS resisted water absorption better than XPS which resulted in it maintaining a greater percentage of its R-value. The test illustrates the successful long-term R-value performance of EPS in below-grade applications. Using 2.2” of EPS also gave architects a true R-10 warranted R-value.

Offering a true R-10 helped architects to meet the IADOT specification requirements. Unlike other insulations, Foam-Control® PLUS+® is warranted for 100% of its R-value for 50 years. Whereas, the warranty for XPS covers only 90% of its R-value for 15 years.

2.2” x 4’ x 8’ and 2’ x 4’ x 8’ sheets of Foam-Control® PLUS+® 150 was used on the project. Wade Goss, LEED AP, Project Coordinator at CRW Architecture explains, “We are pleased to be using ACH Foam insulation products as part of a strategy to reduce energy consumption through energy efficient design of the I-380 Rest Area near Cedar Rapids.”