

TECHNICAL BULLETIN

Channeled Adhesive CI Design with MaxGrip Veneer Adhesive

System Testing

Senergy Channeled Adhesive CI Design with SikaWall® MaxGrip Veneer Adhesive system is a fully tested, code compliant insulated cladding system that allows the use of masonry veneers over continuous insulation. Listed by ICC Evaluation Service under ESR 1878 (along with our traditional EIFS) this system can be confidently used as an alternative to, or alongside, traditional EIFS finish options, allowing greater design flexibility.

In addition to standard EIFS qualifications, the system complies with the criteria of the following testing per requirements of ICC-ES:

TEST METHOD	SAMPLE	CRITERIA
Shear bond strength testing in accordance with ASTM C482 (Section 4.7 of AC51).	<ol style="list-style-type: none"> Veneer adhered with MaxGrip to a substrate consisting of a molded cement mortar bed specified in ASTM C482. Veneer adhered with MaxGrip to Senergy Alpha Base Coat and Alpha Dry Base Coat that is adhered to a substrate consisting of a molded cement mortar bed specified in ASTM C482. 	Min. 50 psi
Tensile bond strength per ASTM E2134 (per ASTM E2568 / Section 3.1 of AC235). Both dry and after wet conditioning (48 hour immersion)	Full system including sheathing, Senergy AWRB, Type I EPS adhered with Senergy base coat, SikaWall Intermediate 12 mesh embedded in Senergy base coat and veneer adhered with MaxGrip	No failure in the adhesive coat, base coat, or finish, the insulation board shall fail cohesively
Freeze-thaw testing per ASTM E2485 (per ASTM E2568 / Section 3.1 of AC235)	Full system including sheathing, Senergy AWRB, Type I EPS adhered with Senergy base coat, SikaWall Intermediate 12 mesh embedded in Senergy base coat and veneer adhered with MaxGrip	No deleterious effects including cracking, checking, peeling, delamination, etc when viewed under 5x magnification
Transverse load testing per ASTM E330 (per ASTM E2568 / Sections 3.3 and 4.3 of AC235)	Full system including sheathing, Senergy AWRB, Type I EPS adhered with Senergy base coat, SikaWall Intermediate 12 Mesh embedded in Senergy base coat and veneer adhered with MaxGrip	Report values of negative and positive
Shear strength testing per ASTM C273 (testing the EPS insulation)	Sheathing, Senergy AWRB, Type I EPS adhered with Senergy base coat, SikaWall Intermediate 12 Mesh embedded in Senergy base coat	Core shear modulus of the EPS is equal to or greater than 280 psi and that the 2% offset shear strength is equal to or greater than 12 psi.

TEST METHOD	SAMPLE	CRITERIA
Multi story intermediate scale fire test per NFPA 285	Full system including sheathing, Senergy AWRB, Type I EPS (4" thick max) adhered with Senergy base coat, SikaWall Intermediate 12 Mesh embedded in Senergy base coat and veneer adhered with MaxGrip Tested with both stone veneer and thin brick veneer	<ol style="list-style-type: none"> 1. Resistance to vertical spread of flame within the core of the panel from one story to the next. 2. Resistance to flame propagation over the exterior face of the system. 3. Resistance to vertical spread of flame over the interior (room side) surface from one story to the next. 4. Resistance to lateral spread of flame from the compartment of fire origin to adjacent spaces.
Radiant heat test per NFPA 268	Full system including sheathing, Senergy AWRB, Type I EPS (4" thick max) adhered with Senergy base coat, SikaWall Intermediate 12 Mesh embedded in Senergy base coat and veneer adhered with MaxGrip. Tested with both stone veneer and thin brick veneer	No surface ignition when exposed to 3950 BTU-h/ft ² (12.5 kW/m ²).
Fire endurance (fire resistive rated) per ASTM E119	Fire endurance (fire resistive rated) per ASTM E119 adhered with Senergy base coat, SikaWall Intermediate 12 Mesh embedded in Senergy base coat and veneer adhered with MaxGrip. Tested with both stone veneer and thin brick veneer	No effect on fire resistance rating of existing fire rated base assembly.