| Acrovyn® 4000 Corner Guard Impact Testing



August 11, 2010 Revised September 24, 2010

Mr. Dave Laidacker Construction Specialties, Inc. 4660 Paradise Road P.O. Box 378 Milton, Pennsylvania 17847-0378

RE: CORNER GUARD IMPACT LOAD TEST SUMMARY

Dear Mr. Laidacker:

Construction Specialties, Inc. contracted Architectural Testing, Inc., an independent test laboratory, to witness testing of their New Acrovyn® 4000 SM-20N Corner Guards with both Aluminum and Regrind Retainers and a competitor's corner guard with aluminum retainer at the Milton, Pennsylvania facility. Ram-type impact tests in general accordance with Section 18 of ASTM F 476-84 (Reapproved 2002), Standard Test Methods for Security of Swinging Door Assemblies were conducted for the three products. Three samples of each product were mounted to 1/2" thick standard interior drywall corner sections over steel studs. Each individual sample was secured to a rigid mock wall structure and impacted at its center (99.2 lb impactor per Appendix X.1 of ASTM F 476) starting at a height of 3" (24.80 ft·lb) with subsequent impacts each incremented once by 3" (24.80 ft·lb) then additionally by 2" (16.54 ft·lb) until a failure occurred. Failure was defined as non-serviceability of the product and undesirable surface damage. Each product utilized a continuous rigid retainer comprised of either aluminum or vinyl. A summary of the evaluations is listed below.

Result	New Acrovyn® 4000 SM-20N Corner Guard - Aluminum Retainer	New Acrovyn® 4000 SM-20N Corner Guard - Regrind Retainer	Competitor Corner Guard - Aluminum Retainer
Failure Height	18"	12"	14"
Failure Type	Surface Deformation	Retainer Damage	Broke/Cut Cover

Full details of these tests are available in reports 98909.02-106-47 and 98909.03-106-47. If you have any questions regarding this test summary, please feel free to contact me at your convenience.

For ARCHITECTURAL TESTING, INC.

Todd D. Burroughs

Digitally Signed by: Todd D. B

Senior Project Engineer - Components / Materials Testing

TDB:tdb/nlb

cc: 98909.02, 98909.03