

| Acrovyn by Design® .040" Impact Testing



February 25, 2014

Mr. Tom Gay
Construction Specialties, Inc.
347 Broad Street
Hughesville, Pennsylvania 17737

RE: IMPACT LOAD TEST SUMMARY

Dear Mr. Gay:

Architectural Testing, Inc. was contracted by Construction Specialties, Inc. to witness the impact load of their standard reverse print Acrovyn by Design product. Testing was performed at Construction Specialties, Inc.'s facility in Muncy, Pennsylvania in accordance with Section 18 of ASTM F 476-84 (Reapproved 2002), *Standard Test Methods for Security of Swinging Door Assemblies* (Withdrawn 2011). Three standard reverse print Acrovyn by Design specimens were mounted to 5/8" thick standard interior drywall sections over steel studs. Each individual specimen was secured to a rigid mock wall structure and impacted at the center of the open stud spacing to determine the impact energy at which failure occurred (99.2 lb impactor per Appendix X.1 of ASTM F 476) starting at a height of 2" (16.53 ft·lb). Subsequent impacts were each incremented 2" (16.53 ft·lb) higher until a failure occurred. Failure was defined as non-serviceability of the product or indentation greater than 3/8". A summary of the evaluations is listed below.

Sample No.	Point of Failure	Comment
1	8" to 10" Height	5/16" and 7/16" Indentation respectively
2	8" Height	3/8" Indentation
3	10" Height	3/8" Indentation

Full details of these tests are available in report D2227.08-106-47. If you have any questions regarding this test summary, please feel free to contact me at your convenience.

For ARCHITECTURAL TESTING, INC.:

A handwritten signature in black ink that reads "Todd D. Burroughs".

Digitally Signed by: Todd D. Burroughs

Todd D. Burroughs - Senior Project Engineer
Components / Materials Testing

TDB:tdb/jas
cc: D2227.08-106-47