



SEALTECH™

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Water Penetration and Leakage Through Masonry

Due to variables in testing methods and results outlined by ASTM, citing that although a product may pass the testing criteria outlined there are far too many variables to consistently test and certify products. Below are cited excerpt from ASTM E 514-90 Standard, Water Penetration and Leakage Through Masonry.

ASTM E 514-90, 3.3

.... "It is impossible to simulate the complex conditions encountered in service, such variations as wind velocity, negative pressure, and lateral or upward moving air and water".

ASTM E 514-90, 3.4

... "In fact, even when two laboratories test the same wall design utilizing the same wall materials and the same construction practices, variables such as the level of skill of the mason building the specimen, the temperature and humidity in the laboratory at the time of construction and curing of the specimen, the moisture content of the materials used to build the specimen and even the use of a lime and water wash on the back of the specimen can affect the results of the test making reliable comparisons between laboratories dubious. **For these reasons and the multi-variables listed in 3.1, 3.2, and 3.3, a meaningful, useful, absolute wall leakage rating standard is impractical and discouraged by this test method**".

Through SEALTECH Block's association with US Technology Corporation, SEALTECH has complete access to a full testing facility. As a result of this association testing for the performance of the SEALTECH Block cannot only be conducted through Certified third party sources, as in most cases, but at our production facilities as well. Such is the case with the testing done on the SEALTECH product for Water Penetration and Leakage Through Masonry.

SEALTECH Block performed in-house tests based upon the criteria outlined in ASTM Standard E 514-90.

The SEALTECH Block was placed in a catch basin to contain the water used in the test. A "spray bar", which saturated the face of the CMU, through the use of a water pump, was constructed and affixed on the block being tested.

Three consecutive tests were conducted on three separate specimens for a period of seven days, 24-hours per day, for each test with no signs of water penetration to the core of the test specimens.

The SEALTECH masonry unit testing far exceeded the minimum 4-hour test criteria outlined in ASTM E 514-90.