

Water Penetration



SWS DuraGard
XT Double Hung
passes the ASTM
E547 Water
Penetration test
with 17% Increase
in test pressure.

DP45
Water Test Pressure 360 Pa (7.50 PSF)



The ASTM E547 test is performed by applying water to the exterior of the test specimen, while lowering the pressure inside, by means of an air chamber built on the inside of opposite side of the test specimen. The water spray system has nozzles spaced on a grid to deliver water so that the test specimen is wet uniformly, including those areas vulnerable to water penetration. The calibrated spray apparatus (spray-rack system), delivers water to the test specimen at a rate of 5.0 U.S. gal/ft²-h. Standard specifications call for a minimum testing pressure of 6.24 psf. However, the SWS DuraGard XT Double Hung was tested at 7.50 psf, and passed with **no leakage**. That's a 17% increase.