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February 14, 2023

Fred Grunewald
Quaker Windows & Doors (“Customer”)
P.O. Box 128
504 Highway 63 South
Freeburg, MO 65035

Dear Mr. Grunewald,

Test Report Equivalency

Intertek conducted a review of the Quaker M700 Aluminum Fixed Window with Louver, Dual Fixed Windows, and Fixed Window which were originally tested for large missile impact and cycle testing under ASTM E1996-14a. Three specimens were tested for each configuration into wood bucks with #8 x 1 5/8” coarse threaded screws located 3” from each corner and 15”-18” on center.

FL #23998

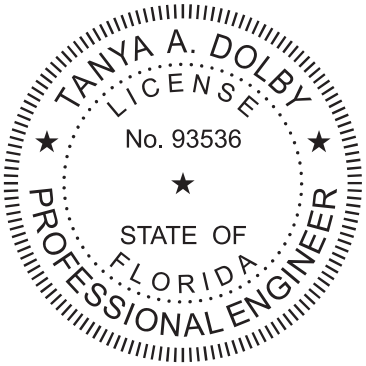
- M700/Modern Vu Aluminum Fixed Window with Louver, +/- 65 psf, Missile Level D, Wind Zone 4
  - J1887.01-801-44 R2 large missile impact and cycle testing under ASTM E1996-14a
- M700 Aluminum Dual Fixed Window, +/- 65 psf, Missile Level D, Wind Zone 4
  - H4937.01-804-44 R3 large missile impact and cycle testing under ASTM E1996-14a
- M700 Aluminum Fixed Window, +/- 70 psf, Missile Level D, Wind Zone 4
  - H4940.01-804-44 R2 large missile impact and cycle testing under ASTM E1996-14a

This letter serves as an equivalency statement between ASTM E1996-14a and ASTM E1996-17 test standards. The Large Missile Impact and Air Pressure Cycling test requirements are the same for both and equivalent.

Yours sincerely,

Digitally Signed by: Tanya Dolby

Tanya Dolby, P.E.
Manager – Engineering Services
Building & Construction



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