

December 21, 2022

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

Dear Mr. Grunewald,

**M700 Awn over Fix & Fix over Awn Configurations
Waiver of Retest from #L5048.01-801-44-r5**

Intertek conducted a review of test report #L5048.01-801-44-r5 for Quaker M700 Aluminum Fixed/Awning/Fixed Window, which was tested per AAMA 506-16 and ASTM E1996-17 Large Missile Impact and Cycle testing. Five windows were tested to +/- 70 psf for Missile Level D, Wind Zone 3.

Specimens 1, 2, and 3 were installed into wood bucks through a nailfin with #12 x 2 ½" Pan Head Screws located 3" from each corner and 14" on center at the head, sill, and jambs. Unit size was 60" wide x 144" tall.

Specimen 4 was installed through a receptor/sill starter with #12 x 2 ½" Pan Head Screws located 3" from each corner and 15" on center, jambs screws were located 3" from each corner and 13" on center. Frame size was 60" wide x 144" tall and sub-frame overall size was 63" x 147".

Specimen 5 was installed through a trim and clip with #12 x 2 ½" Pan Head Screws located 3" from each corner and 15" on center, jambs screws were located 3" from each corner and 13" on center. Unit sizes were 60" wide x 144" tall.

After review of the tested configurations, the Awning/Fixed and Fixed/Awning configurations, shown on 8 pages of Installation instructions dated 12/08/2022, limited to the same size and design pressure for each Awning and Fixed are covered by the tested configurations. Frame members are equal to or exceed the structural capacity of the tested members. Anchor methods are equal to or exceed the capacity of the tested anchor method.

Yours sincerely,

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

