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December 19, 2023

TO: Whom It May Concern

FROM: Hermes F. Norero, P.E.
Registered Florida Professional Engineer #73778

MANUFACTURER: Ply Gem Residential Solutions – A Division of Cornerstone Building Brands
2405 Campbell Road
Sidney, OH 45365

SUBJECT: EverPlank Insulated Siding ASTM D7793 and ASTM D3679 Equivalency

Dear Sir or Madam,

This purpose of this document is to establish equivalency of Ply Gem Residential Solutions' ASTM D7793 testing on their EverPlank Insulated Siding with ASTM D3679 testing, as referenced within Chapter 35 of the 2023 Florida Building Code.

Chapter 35 of the 2023 Florida Building Code references ASTM D3679-17, which is titled "Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Siding". The EverPlank Insulated Siding has been tested in accordance with ASTM D7793-21, which is titled "Standard Specification for Insulated Vinyl Siding".

Testing was conducted in accordance with ASTM D7793 upon the basis of the EverPlank product being an insulated siding material, therefore ASTM D7793 would be more appropriate. ASTM D7793 is not referenced within Chapter 35 of the 2023 FBC, therefore the following review has been conducted to evaluate whether D7793 may be used to meet the intent of FBC 1404 for the performance of siding.

ASTM D3679 establishes the following requirements and test methods for extruded single-wall siding manufactured from rigid (unplasticized) PVC compound:

- Material Properties
- Dimensions
- Warp
- Shrinkage
- Impact strength
- Expansion
- Appearance
- Windload resistance

ASTM D7793 establishes the following requirements and test methods for insulated vinyl siding, which is vinyl siding with integral foam plastic insulating material, where the vinyl siding is manufactured from rigid PVC compound:

- R-Value
- Material properties

Hermes F. Norero, P.E.
Florida No. 73778

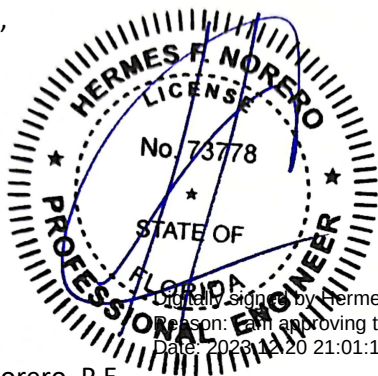
- Dimensions
- Warp
- Shrinkage
- Impact strength
- Expansion
- Appearance
- Thermal distortion resistance
- Flame spread
- Windload resistance

As can be seen above, ASTM D7793 contains all of the criteria of ASTM D3679, and adds additional requirements unique to insulated siding, which is further confirmed by the below except from the ASTM website for D7793:

Insulated vinyl siding is composed of two major components: the vinyl siding and the insulating material. It is intended that the vinyl siding portion comply with Specification D3679. Applicable portions of Specification D3679 are included in this specification. Additional requirements that pertain only to the insulation as a separate material, or to the combination of vinyl siding and insulation as a whole, are also included.

Based upon the same evaluation criteria being used between the two standards, with additional criteria for the insulated siding, it is my professional opinion that ASTM D7793-21 testing meets all requirements of 2023 FBC Section 1404, which calls for ASTM D3679-17 testing. All test results meet or exceed requirements of the current Florida Building Code.

Respectfully,



Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2023.11.20 21:01:17 -05'00'

Hermes F. Norero, P.E.

Florida Registered Professional Engineer #73778

Certification of Independence:

Please note that I do not have nor will I acquire a financial interest in any company manufacturing or distributing the product(s) for which this report is being issued. Also, I do not have nor will I acquire a financial interest in any other entity involved in the approval process of the listed product(s).