

# WOLTERS ENGINEERING

ENGINEERING, DRAFTING, CONSULTING

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## PRODUCT EVALUATION

PRODUCT: KAWNEER 1600 WALL SYSTEM 1 - 2 1/2" x 7 13/16" CURTAINWALL SYSTEM  
LEVEL E IMPACT RESISTANT

MANUFACTURER: KAWNEER, INC.  
555 GUTHRIDGE COURT  
NORCROSS, GA 30092

To all concerned,

The Kawneer 1600 Wall System 1, 2 1/2" x 7 13/16" Level E Large and Small Missile Impact Resistant Curtainwall System has been tested per TAS 201 (1994), 202 (1994), 203 (1994), ASTM E1886-13a, and E1996-17 by Intertek B&C, with results shown in the test reports I7021.01-550-18, I7021.02-550-18, and I7021.03-550-18.

I have reviewed the test standards listed above and have determined that for this product, they are equivalent to AAMA 501-15 as referenced in the Florida Building Code.

### Technical Documentation:

1. Drawing "1600-IR-LVLE", dated 8/28/23 (rev. 1) signed and sealed by Scott Wolters, PE.
2. Test Reports listed above by Intertek B&C, signed and sealed by Vinu J. Abraham, PE.
3. Supplemental Calculations to support "1600-IR-LVLE", signed and sealed by Scott Wolters, PE.

I have reviewed this submittal per the requirements of FAC Product Approval Rule Chapter 61G20-3.005 (4). Based on the limitations listed below and those provided in the documents above, this product meets all the requirements of the 8<sup>th</sup> Edition (2023) Florida Building Code generally, and chapters 16, 20, and 24 specifically, including the HVHZ provisions.

Limitations: This system has been tested and approved for use inside and outside the HVHZ. It is Level E large and small missile impact resistance, and shutters are not required.

Maximum Design Pressures: Varies - See Mullion Chart on Sheet 5 of 1600-IR-LVLE.  
Glass Chart on Sheet 6 of 1600-IR-LVLE.  
Anchor Charts on Sheets 7-8 of 1600-IR-LVLE.

The lowest pressure applies to the entire system.

Glass: Design pressures for each glass type are based on the testing listed above and ASTM E1300-16. See Sheet 6 of 1600-IR-LVLE.

Glass Type 1: 1 5/16" Insulated Laminated  
1/4" Tempered  
1/2" Air Space (Alum Spacer)  
3/16" Heat Strengthened  
0.180" Sentryglas Interlayer\* (NOA# 22-1116.01)  
3/16" Heat Strengthened


\* I have evaluated the SentryGlas interlayer (NOA# 22-1116.01) referenced above and find that it complies with the requirements of the 8<sup>th</sup> Edition (2023) Florida Building Code for use in this product.

Mullions and Reinforcing: Please see the Mullion Chart on Sheet 5 of 1600-IR-LVLE for allowable mullion heights, spacing, and pressures for mullions with and without reinforcing.

Anchors: Please see the Anchor Charts and Details on Sheets 7-8 of 1600-IR-LVLE for the allowable anchors and loads at the head and sill.

If you have any questions or need more information concerning this approval please contact me.

Thank you,

  
Scott Wolters  
FL PE# 62354  
AUG 28 2023

