

WOLTERS ENGINEERING

ENGINEERING, DRAFTING, CONSULTING

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PRODUCT EVALUATION

PRODUCT: CLEARWALL SERIES CURTAINWALL SYSTEM

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

To all concerned,

The Kawneer Clearwall Series Curtainwall System is a Structural Silicone Glazed (SSI Option) or Tape Glazed (SSIT Option) Curtainwall System designed for Wind Zone 3 Large and Small Missile Impact Resistance. The system has been tested per ASTM E283-12, E330-14, E331-00(2009), E1886-13a, and E1996-14a by Intertek B&C, which are equivalent to the requirements of AAMA 501-15. Results are shown in test reports G8238.05-550-18 R0, G8238.03-550-18 R0, G8238.04-550-18 R0, G8238.06-550-1 R0 (Lithia Springs, GA), and I6985.03-450-32 (West Palm Beach, FL).

Technical Documentation:

1. Drawing "CLRWL-IR", dated 4/13/21, signed and sealed by Scott Wolters, PE.
2. Test Reports listed above by Intertek B&C, signed and sealed by Justin P. McDonald, PE (Lithia Springs), and Vinu J. Abraham, PE (West Palm Beach).
3. Supplemental Calculations to support CLRWL-IR, 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 7th Edition (2020) Florida Building Code generally, and chapters 16, 20, and 24 specifically, for use outside of the High Velocity Hurricane Zone.

Limitations: This system has been tested and approved for large and small impact resistance (Wind Zone 3), for use outside the HVHZ. Shutters are not required in windborne debris regions.

Maximum Design Pressures:

Varies. See Glass Chart on CLRWL-IR Sheet 11
Single Span Mullion Charts on CLRWL-IR Sheet 9
Multi-Span Mullion Charts on CLRWL-IR Sheet 9
And Corner Mullion Charts on CLRWL-IR Sheet 10
The lowest pressure applies to the entire system.

Glass: Design pressures for the glass are based on testing listed above and ASTM E1300-09, and are also limited by the allowable stress for structural silicone (SSI option) and 3M VHB Tape (SSIT Option). Please see the glass chart on sheet 11 of drawing CLRWL-IR for allowable sizes and design pressures.

Glass Type 1: 1" Insulated Laminated (LMI/SMI)
1/4" Tempered
3/8" Air Space with Alum. Spacer (black)
3/16" Heat Strengthened
0.090" Sentryglas** Interlayer
3/16" Heat Strengthened

Glass Type 2: 1" Insulated Laminated (SMI only)
1/4" Tempered
3/8" Air Space with Alum. Spacer (black)
3/16" Heat Strengthened
0.060" PVB^^ Interlayer
3/16" Heat Strengthened

** The Sentryglas Interlayer is manufactured by Kuraray America Inc, per NOA# 20-0915.19.

^^ The PVB Interlayer is manufactured by the Eastman Chemical Company, per NOA# 20-0622.01, or by Kuraray America Inc, per NOA# 20-0915.22.

Mullions and Reinforcing: Please see the Jamb and Mullion charts on Sheet 9 and the Corner Mullion charts on Sheet 10 of drawing CLRWL-IR for allowable mullion lengths and pressures for mullions with and without reinforcing.

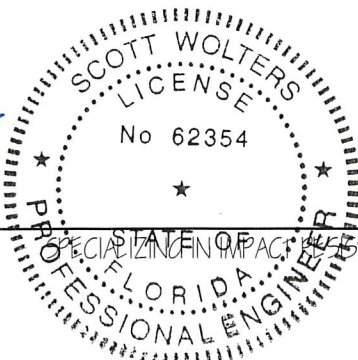
Mullions must be extruded from aluminum alloys listed on Sheet 15 of drawing CLRWL-IR.

Anchors: Please see the Anchor Tables on Sheets 12-13 of drawing CLRWL-IR and the corresponding details for the allowable anchors at the head and sill. The mid-span anchors are limited per the details and notes on Sheet 14.

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

Thank you,


Scott Wolters
FL PE# 62354
APR 19 2021



SPECIALIZING IN IMPACT-RESISTANT CURTAIN WALLS, STOREFRONTS, & WINDOWS