

DATA SHEET

THERMALLY BROKEN FE/BR ALUMINUM WINDOW

USAW 800 SERIES



- The USAW 800 Window Series is high-security aluminum window framing system, designed for Department of State (DOS) applications, which provides protection from ballistics, blast, storm impact and forced entry. Complimentary door construction allows for aesthetically uniform security application that is available in many style and finish options. The system includes a thermally broken design to allow improved energy conservation. The extrusions allow for the insertion of armor consistent with specified threat level.
- Frame Size: 2-1/2"W x 6"D.
- The USAW 800 is available as a:
 - Curtain wall system
 - Store front system
 - Single lite, multi lite or transaction system
- Glass components are easily replaceable.
- Glazing Thickness: 1" to 2-1/8".
- Standard finish: Clear or Dark Bronze Anodized (Custom Kynar Paint, Brass Cladding, Stainless Steel Cladding available).

PROTECTION, TESTING & STANDARDS

- **Ballistics:** UL 752 Levels 1 – 3 protection is an all-aluminum system, with Levels 4 - 8 requiring steel inserts.
- **Blast:** Calculations provided per GSA / ISC and UFC criteria.
- **Forced Entry:** Department of State 5- and 15-minutes FE/BR ratings, DOS Model # GWV-15R-USB-03B, DOS Model #GWV-05N-USB-02.
- **Energy Efficiency:** ASTM E283, ASTM 330, ASTM 331 and AAMA 501.1, NFRC 100/200/500 and AAMA 501.5.
- **Acoustic Testing:** ASTM E90, E413, E1332 and E2235.

PRODUCT SPECIFICATION INFORMATION

- Aluminum extrusions to be 6063-T5 alloy and temper or equal with a minimum tensile strength of 31 ksi and ultimate tensile strength of 35 ksi.
- All fasteners are zinc coated and will not be exposed.
- Interior glazing gaskets comprised of Thermoplastic Elastomer (TPE 65AB) and Polyolefin Foam Concentrate (resulting in 55 to 65 Shore "A" durometer) or wet glazed as needed.
- Set blocks are solid neoprene (80-90 Shore "A" durometer) and in strict compliance with ASTM C-509-00 Type II Option 1 and C-864-99.

OTHER IMPORTANT INFORMATION

- Shipped factory assembled, non-factory glazed. Thermal barrier design allows for insulating against temperature changes in extreme weather conditions.

It is recommended that the window system be used in conjunction with protected wall and door areas. Each end user should determine the blast, ballistic and forced entry threat level to ensure the correct product selection to meet and exceed security needs.