

Blast-Resistant Windows

Custom Commercial Aluminum

Single-Hung, Horizontal Slider, Projected and Fixed

Tested to Minimal Hazard Rating



Designed to meet Department of Defense (DoD) Unified Facilities Criteria (UFC) at conventional standoff



Shown: **M-950B Single-Hung**

- Meets Anti-Terrorism Force Protection (ATFP) UFC 4-010-01 and 02 at Charge Weight I & II at conventional construction standoff distances
- Fully factory assembled, shop glazed, no field glass installation and aggressive lead times
- Easy, cost-effective installation, minimal anchorage required
- Caulk backer comes standard; additional accessories include nailing fin and face flange on exterior, with blast loads picked up on the interior
- Pour and debridge polyurethane thermal break for better performance, utilizing Azo-Brader™ technology with a 10-year warranty against failure of the polymer
- M-950B Fixed and Single-Hung models also available as Impact/Hurricane Resistant. *Contact us for details.*
- 1-year limited warranty on window materials and workmanship
- 1" sealed insulated glass (IGU) with a 10-year limited warranty, and five years against delamination of glass
(see supporting document for details)
- Standard finishes include bronze or white (AAMA 2603), bronze or white 2-coat Kynar® (AAMA 2605), and clear or bronze anodized (AAMA 611). Non-standard colors available subject to minimum quantity requirements

Kynar® is a registered trademark of Arkema Inc.
Azo-Brader™ is a trademark of Azon USA Inc.



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Made in the U.S.A.

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M-950B Additional Features and Single-Hung Elevations

Pour and debridge polyurethane thermal barrier in frame and sash

Durable frame with low-maintenance electrostatically-applied baked-on finishes

Spring-loaded screens install and remove easily :

Coped (non-mitered) corners resist flexing and racking to ensure structural integrity, reduce air infiltration and stop damaging water leakage

Horizontal Slider: Ball-bearing easy-glide rollers provide smooth, quiet operation

Fixed: Custom shapes available such as circle, half round, trapezoid, and more

Single-Hung: Block & tackle balances and side take-outs that offer positive, safe operation and greater reliability

Glazed inserts with marine-type wrap-around glazing system for easy field replacement of glass compared to direct-set glazing

1" Sealed Insulated Glass

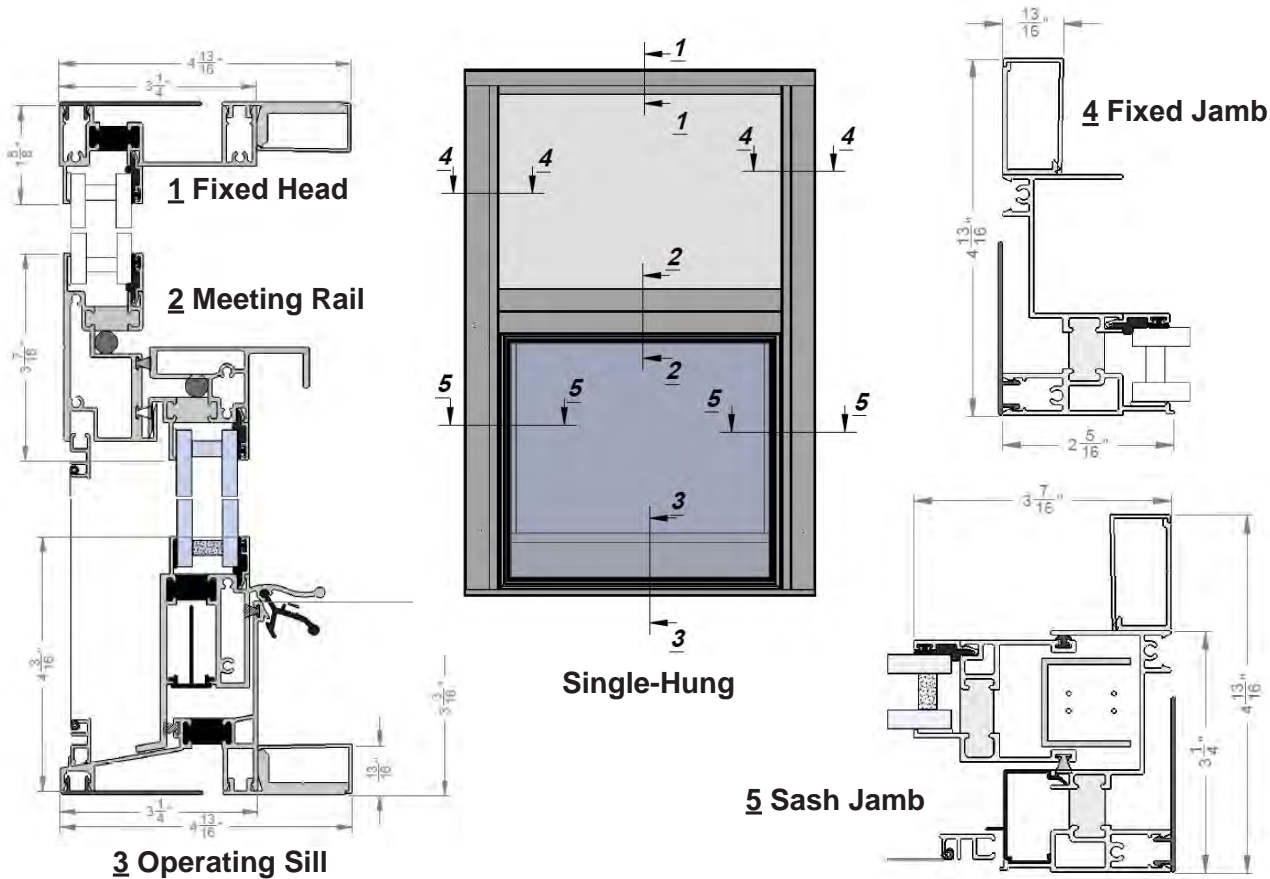
Energy-efficient Low-E or tinted glazing also available for maximum thermal performance

Self-locking feature is standard,
sweep lock available as an option

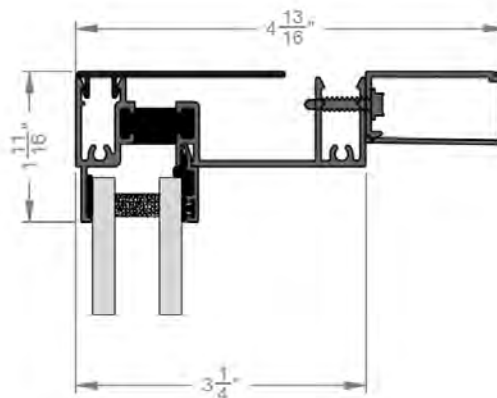
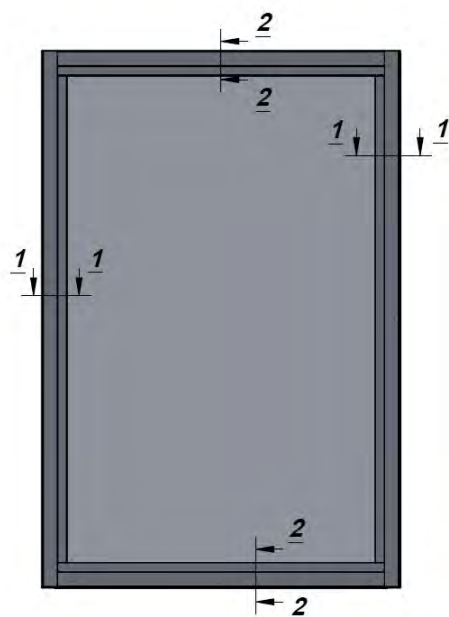
Blast clip, factory applied on
two opposing or all four sides

New and Improved
2³/₈" caulk backer

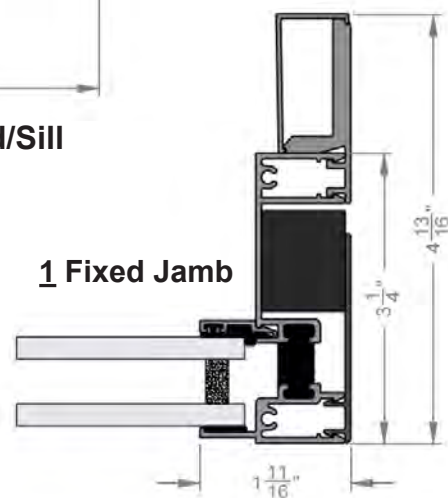
Shown: **M-950B Single-Hung**



M-950B Fixed Elevations



2 Fixed Head/Sill



1 Fixed Jamb

M-950B Fixed Now Also Available as a Triple-Glazed Model with a 2" IGU
CONTACT US FOR DETAILS

**OCAR Facility
 Ft. Belvoir, VA
 M-950B Blast-Resistant
 Fixed Windows**



**Warrior in Transition
 Barracks
 Ft. Stewart, GA
 M-950B Blast-Resistant
 Fixed Windows**



Product Performance Details (AAMA/WDMA/CSA 101/I.S.2/A440-*)

Type	System Depth	Product Designation*	Structural/Water/ Air Test Size (W x H)	Air Infiltration (cfm/sq ft)	Water Resistance (psf)	Deflection (psf)	Structural (psf)	Simulated U-Value▼
M-950B Single-Hung	4¾" with clip, factory applied	AW-PG50	60" x 99"	.10	12	50	75	.35 ● .38 ♣ .48 ♦ .60 ■
M-950B Horizontal Slider Single Vent		CW-PG50	72" x 62"	.10	8	50	75	.35 ● .40 ♣ .46 ♦ .58 ■
M-950B Fixed		AW-PG80	60" x 99"	< .01	15	80	120	.35 ● .40 ♣ .46 ♦ .58 ■
4500 Fixed	3⅞" with clip, factory applied	AW-PG70 <i>(NAFS '11)</i>	60" x 100"	< .01	15	70	105	.34 ♣ .50 ♦ .54 ■
4600 Project-out Awning		AW-PG65 <i>(NAFS '11)</i>	60" x 36"	.02	12	65	97.5	.47 ♣ .52 ♦ .64 ■
4600 Project-out Casement		AW-PG70 <i>(NAFS '11)</i>	36" x 60"	.01	12	70	105	.48 ♣ .52 ♦ .63 ■
DEFCON Series is receptor based installation. Contact us for details.								
DEFCON III Project-out Awning	3¼"	AW-PG65	60" x 36"	.02	12	65	97.5	.51 ♣ .56 ♦ .66 ■
DEFCON V Project-out Casement		AW-PG70	36" x 60"	.01	12	70	105	
DEFCON II Fixed		AW-PG70	60" x 100"	< .01	15	70	105	.35 ♣ .41 ♦ .55 ■

* The '05 fenestration standard utilized five performance classes: R, LC, C, HC and AW. NAFS-08 and -11 utilize four such classes: R, LC, CW and AW.

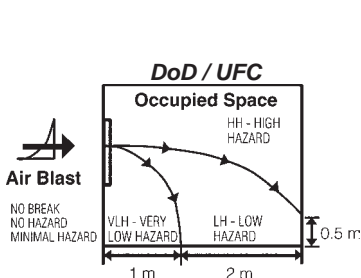
▼ U-Value comparisons - example data represents four typical glass package options (see our website for the latest updates).

All simulation values based on 1" IGU with 1/8" lites. Simulated window sizes based on NFRC 100 at AAMA 1503 sizes.

- With optional high-performance "plus" glass package. ♣ With optional high-performance glass package.
- ♦ Air-filled IGU with Low-E over clear glass, 3/4" aluminum box spacer. ■ Air-filled IGU with clear over clear glass, 3/4" aluminum box spacer.

(Metric U-Value conversion: coefficient = US value x 5.678263. R-Value = 1 / U-Value.)

Protection Levels and Attributes



DoD / UFC	
LEVEL OF PROTECTION (4-010-01)	GLAZING HAZARD RATING (4-010-01 / ASTM F 1642)
High	No Hazard
Medium	Minimal
Low	Very Low (VLH)
Very Low	Low (LH)
Below Anti-Terrorism (AT) Standards	High (HH)

All models qualify for
Medium Level of Protection and Minimal Glazing Hazard Rating*

*as tested

- Provides protection as mandated by Anti-Terrorism Force Protection (ATFP) criteria for Explosive Weight I & II at conventional construction standoff distances
- Meets UFC 4-010-01 and 02 w/change 1, Jan 22, 2007
Blast test sizes available upon request

HQ/Sales/Manufacturing
217 Stover Road
Charlevoix, MI 49720
(800) 632-9827 | fax (231) 547-4237

WOJAN
WINDOW & DOOR
CORPORATION
www.wojan.com

Manufacturing
340 Jay Street
Coldwater, MI 49038
(866) 378-2202 | fax (517) 279-9832