



Product Evaluation

WIN129 | 1015

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: WIN-129

Effective Date: October 1, 2015

Re-evaluation Date: April 2016

Product Name: GA 505, Aluminum, Single Hung Window, Singles, Twins, and Triples CHS, Non-Impact Resistant

Manufacturer: MI Windows & Doors, LLC
650 West Market Street
Gratz, PA
(717) 365-3300

General Description:

System	Description	Label Rating	Design Pressure Rating
1	GA 505 Triple SH (Fin) (O/X.O/X.O/X)	R-PG40 108 x 72-H (Mull)	±40 psf
2	GA 505 SH (Finless and Flange) (O/X)	R-PG40 54 x 72-H	±40 psf
3	GA 505 SH (Finless and Flange) (O/X)	R-PG25 44 x 84-H	±25 psf
4	GA 505 SH (Finless and Flange) (O/X)	R-PG30 52 x 96-H	±30 psf
5	GA 505 SH (Fin) (O/X)	R-PG35 48 x 96-H	±35 psf
6	GA 505 SH (Fin) (O/X)	R-PG40 44 x 84-H	+40 psf; -45 psf
7	GA 505 SH (Fin) (O/X)	R-PG35 52 x 72-H	±35 psf
8	GA 505 Twin SH (O/X.O/X)	R-PG35- 73 x 72-H (Mull)	+45 psf; -50 psf
9	GA 505 Twin SH (O/X.O/X)	R-PG30- 73 x 84-H (Mull)	±30 psf

Product Dimensions:

System	Overall Size	Operable Sash Size	Fixed Sash Daylight Opening Size
1	108" x 72"	(three) 34" x 36-1/4"	(three) 32-3/8" x 33-1/2"
2	53-1/2" x 71-1/2"	51-7/8" x 36"	50-1/4" x 33-1/8"
3	43-1/2" x 83-1/2"	41-3/4" x 42"	40-1/8" x 39-1/8"
4	52-1/8" x 95-1/2"	50-1/2" x 36"	48-3/4" x 57"
5	48" x 96"	46-3/8" x 36"	44-3/4" x 57-1/2"
6	44" x 84"	42-3/8" x 36"	40-3/4" x 45-1/2"
7	52-1/8" x 72-1/8"	50-1/8" x 36"	48-7/8" x 33-5/8"
8	72-1/2" x 72"	(two) 34-3/8" x 36-5/16"	(two) 32-3/4" x 33-5/16"
9	72-1/2" x 84"	(two) 34-3/8" x 30"	(two) 32-3/4" x 51-5/8"

Product Identification (Certification Label on Window):

System		
1,5-9	Certification Agency	AAMA
	Manufacturer's Name or Code Name	MTL-12
	Product Name	GA 505 SH (FIN)
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08
2-4	Certification Agency	AAMA
	Manufacturer's Name or Code Name	MTL-12
	Product Name	GA 505 SH (FINLESS & FLANGE)
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08

Impact Resistance:

System	Impact Resistant	Requirement
1-9	No	Provide an impact protective system when installing the product in areas that require windborne debris protection.

Installation:

System		
1	Type of Installation	New Construction - Fin Installation
	Wall Framing	Spruce-Pine-Fir
	Fasteners	6d common nail (0.113" dia.) x 2" long
	Fastener Location/Spacing	Nailing Fin / Approximately 6" from each end and approximately 16" on center along the entire perimeter
	Fastener Penetration	1-1/2" minimum into wall framing

Installation (continued):

System		
2-4	Type of Installation	Replacement Construction – Finless Install and Flange Installation
	Wall Framing	Spruce-Pine-Fir
	Fasteners	#6 x 1-5/8" long wood screws
	Fastener Location/Spacing	Side Jamb / approximately 6" from each end, within 1" of interlock and at mid span of sash height at the exterior pocket, and approximately 17" from the interlock Head / approximately 6" from each end and at mid span in the interior pocket
	Fastener Penetration	Minimum 1" into framing
5-6	Type of Installation	New Construction - Fin Installation
	Wall Framing	Spruce – Pine – Fir
	Fasteners	#6 x 1-5/8" long drywall screw
	Fastener Location/Spacing	Fin / approximately 3" from each corner and approximately 8" on center
	Fastener Penetration	Minimum 1-1/2" into framing
7	Type of Installation	New Construction - Fin Installation
	Wall Framing	Spruce – Pine – Fir
	Fasteners	#6 x 1-5/8" long drywall screw
	Fastener Location/Spacing	Fin / approximately 3" from each corner and approximately 12" on center
	Fastener Penetration	Minimum 1-1/2" into framing
8-9	Type of Installation	New Construction - Fin Installation
	Wall Framing	Spruce – Pine – Fir
	Fasteners	#6 x 1-5/8" long drywall screw
	Fastener Location/Spacing	Fin / approximately 3" from each corner and approximately 10" on center
	Fastener Penetration	Minimum 1-1/2" into framing

Note: Keep the manufacturer’s installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.