



# Product Evaluation

DR822 | 0117

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:** DR-822

**Effective Date:** January 1, 2017

**Re-evaluation Date:** September 2020

**Product Name:** Series 35H, 50H Aluminum Outswing Entrance Side Hinged Doors, Impact Resistant

**Manufacturer:** YKK AP America  
1229 Hwy 441 Bypass  
Dublin, GA 31021  
(678) 838-6066

### General Description:

System	Description	Label Rating	Design Pressure Rating
1	Series 35H Aluminum Outswing Entrance Doors (XX)	ASTM E330, ASTM E1886, ASTM E1996; Large/Small Missile D/A	+90 / -90 psf
2	Series 50H Aluminum Outswing Entrance Doors (XX)	ASTM E330, ASTM E1886, ASTM E1996; Large/Small Missile D/A	+90 / -90 psf

### Product Dimensions, Systems 1 and 2:

System	Overall Frame Size	Door Panel Size	Panel Daylight Opening Size
1	101" x 98-1/2"	48" x 95"	38-3/4" x 82-3/4"
2	101" x 98-1/2"	48" x 96"	36-1/4" x 81-5/8"

**Components and Hardware:**

System	Component	Quantity	Attachment Method
1,2	<b>Hinge Options</b>		Install hardware and components, as per approved pressure design in accordance with drawings:  <b>YKK042</b> titled "Series 35H Aluminum Outswing Entrance Doors", dated September 17, 2014, signed & sealed by Hermes F. Norero, P.E. on December 13, 2015.  <b>YKK043</b> titled "Series 50H Aluminum Outswing Entrance Doors", dated September 18, 2014, signed & sealed by Hermes F. Norero, P.E. on December 13, 2015.
	Butt Hinges: Hagar BB1191 Series	4/leaf	
	Butt Hinges: McKinney TA2714		
	Continuous Hinge: Roton 780-226HD	1/leaf	
	Continuous Hinge: Select 27HD (Geared)		
	Pivot Hinge Rison: Top: 180AT	1/leaf	
	Intermediate: M-19 AT		
	Bottom: 147 AT		
	<b>Lock Mechanism Options</b>		
	Adams Rite MS 1850 with Top Bolt MS4015 and Bottom Bolt MS4016	1 set	
	Adams Rite MS1880		
	Adams Rite MS2180		
	Sargent 8500 Rim Panic with Removable Mullion		
	Von Duprin 33A/35A Series Rim Panic with Removable Mullion		
	Von Duprin 98/99 Series Rim Panic With Removable Mullion		
	Corbin Russwin ED4200 Rim Exit Device with Removable Mullion		
	Yale 7250M Exit Device with Removable Mullion		
	Single Point MS 1850 with Flush Bolts in the Inactive Leaf		
Falcon Dor-O-Matic 1490			
Von Duprin 9947F CVR Exit Device			
Sargent 8400 CVR Exit Device			
First Choice 3690 CVR Exit Device			
Dor-O-Matic 1490 CVR Exit Device			
Dor-O-Matic 1690 CVR Exit Device			
Dor-O-Matic 2390 CVR Exit Device			

**Product Identification (Manufacturer Label on Door):**

System		
1	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	YKK AP America Inc.
	Product Name	Model 35 H Entrance
	Drawing	YKK-042
	Test Standards	ASTM E330, ASTM E1886, ASTM E1996 Large Missile D & Small Missile A

**Product Identification (Manufacturer Label on Door) – continued:**

System		
2	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	YKK AP America Inc.
	Product Name	Model 50 H Entrance
	Drawing	YKK-043
	Test Standards	ASTM E330, ASTM E1886, ASTM E1996 Large Missile D & Small Missile A

**Impact Resistance:**

System	Impact Resistant	Requirement
1,2	Yes	These products satisfy TDI's criteria for protection from windborne debris in the Inland I and Seaward zone. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies.

**Acceptance of Smaller Assemblies:** Door assemblies with dimensions equal to, or smaller than those specified are acceptable with the limitations specified in this report.

**Installation:**

System		
1	Type of Installation	Install doors in accordance to YKK AP Drawing YKK 042 titled "Series 35H Aluminum Entrance Doors", dated September 17, 2014, signed & sealed by Hermes F. Norero, P.E. on December 13, 2015.
	Wall Framing	
	Fasteners	
	Fastener Embedment	
	Fastener Location/Spacing	
2	Type of Installation	Install doors in accordance to YKK AP Drawing YKK 043 titled "Series 50H Aluminum Entrance Doors", dated September 18, 2014, signed & sealed by Hermes F. Norero, P.E. on December 13, 2015.
	Wall Framing	
	Fasteners	
	Fastener Embedment	
	Fastener Location/Spacing	

**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.