



Barracuda – A new Roll Shutter System.

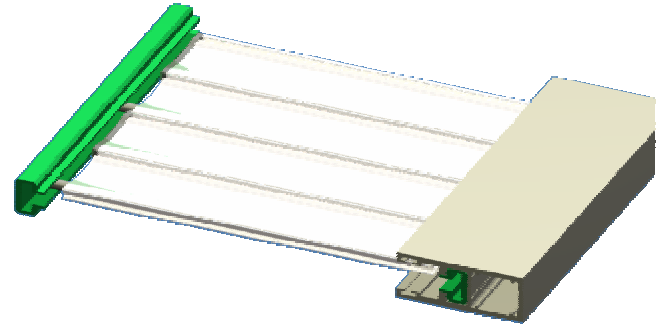
Does Size Really Matter?

When you talk to your customers about housing sizes, do they think bigger is better? In our experience, quite the opposite. Obtrusive, large housing sizes are so last century.

Alutech's new Barracuda Shutter System will give you code compliant hurricane protection in small housings. In addition, the End Retention System eliminates the need for stormbars.

Almost 2 years of engineering and testing went into one of the most advanced Roll Shutters for hurricane protection on the market. The patent-pending technology, provides a smooth, quiet operation, very small housing sizes combined with all the hurricane protection you need.

The Barracuda meets and exceeds the toughest standards: TDI, IBC/FBC, and Dade County.



Max. Overall Height			
Box Size	40mm	Axle 60mm	70mm
6 1/2	79	67	64 1/2
7	97	92	89
8		119	113
9		165	159

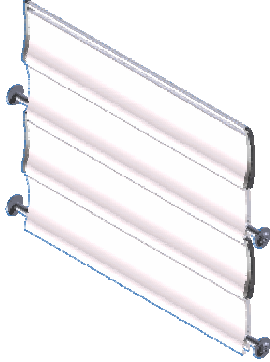


- ✓ 42mm extruded aluminum slat
- ✓ Stainless steel end retention bolts
- ✓ Small housings
- ✓ Florida Building Code approved (FBC)
- ✓ Dade County compliant
- ✓ New slat appearance
- ✓ Approved for block and concrete construction
- ✓ Approved for wooden structures
- ✓ Patent pending



Barracuda - Extruded Aluminum Slat

TECHNICAL SPECIFICATIONS



The Extruded Aluminum Barracuda Slat profile is the latest Impact Rated Hurricane Shutter profile. The Barracuda slat complies with Metro Dade County, Texas Department of Insurance (TDI), and Florida / International Building Code protocols. Due to its small housing requirements and high wind resistance, the Barracuda slat has gained much popularity and usage in Hurricane regions. It's unique feature is the "End-Retention" Guide Rail that allows the Barracuda to operated with no intermediate storm bars for shutter widths up to 144".

COVERING SURFACE	1 9/16" (42 mm)
SLAT HEIGHT	1 9/16" (42 mm)
NOMINAL THICKNESS	7/16" (8.7 mm)
DESIGN WEIGHT PER SQUARE FOOT	1.64 lbs.
SLATS PER SQUARE FOOT	7.62
RECOMMENDED MAXIMUM WIDTH	165" (13.75 LF) (4.2 m)
RECOMMENDED MAXIMUM HEIGHT	110" (9.2 LF) (2.8 m)
MINIMUM ROLL DIAMETER	40 mm

Available Colors:

White

Spring 2007:

Beige

Cream

Brown

Gray

HOUSING SIZE SELECTION CHART

Maximum Guide Rail Heights

Housing Size

	5 1/2"	6 1/2"	7"	8"	9"	10"	12"
Axle Size 40 mm		72 1/2"	90"				
60 mm		60 1/2"	85"	111"	156"	179"	
70 mm		58"	82"	105"	150"	165"	



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PRODUCT EVALUATION REPORT

REPORT NO.: 07-0221.01
DATE: February 21, 2007
PRODUCT CATEGORY: Hurricane Shutters
PRODUCT SUB-CATEGORY: Roll Up Shutters
PRODUCT NAME: Barracuda End Retention Roll Up Shutter System
SUBMITTED BY: Alutech United, Inc.
15 Dixon St.
Selbyville, DE 19975

1. PURPOSE OF EVALUATION:

This is a Product Evaluation Report issued by **Walter A. Tillit, Jr., P.E.** (System ID # 1906) to Alutech United, Inc. based on Rule Chapter No. 9B-72.070, Method 1d of the State of Florida Product Approval, Department of Community Affairs-Florida Building Commission.

This product is being issued an Evaluation Report as described herein, and has been verified for compliance in accordance with the 2004 edition of the Florida Building Code, and to verify that the product is for the purpose intended at least equivalent to that required by the Code.

This Product Evaluation Report shall be subject to review and revision in case of a Building Code Change that may affect its limitations and conditions.

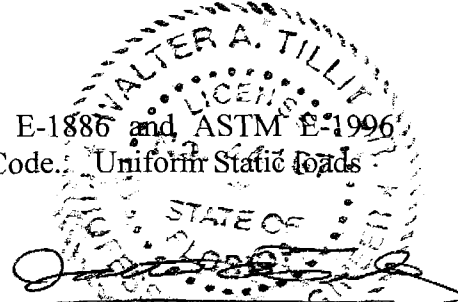
2. EVIDENCE SUBMITTED:

2.1. PRODUCT EVALUATION DOCUMENT (P.E.D.):

Drawing No 06-060, titled "BARRACUDA END RETENTION ROLL UP SHUTTER SYSTEM", sheets 1 thru 8 of 8, prepared by Tilteco, Inc.; signed and sealed by Walter A. Tillit, Jr., P.E.; dated 03/23/06. This drawing is an integral part of this Evaluation Report.

2.2. TEST REPORTS:

Large missile impact and cyclic loading under ASTM E-1886 and ASTM E-1996 Standards, as per section 1609.1.4 of the Florida Building Code. Uniform Static Loads



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in accordance with ASTM E 330 and Protocol TAS 202. Test reports prepared by Architectural Testing Lab, Report No. 66443.02-109-18 signed and sealed by Joseph A. Reed, P.E. dated 01/19/07.

2.3. STRUCTURAL ENGINEERING CALCULATIONS:

On Barracuda End Retention Roll Up Shutter System for maximum shutter span vs. design wind load, as well as maximum anchor spacing vs. design wind load and shutter span based on rational and comparative analysis, and in accordance with sections 1612 and 2003 of the Florida Building Code. Calculations prepared by Tilteco, Inc., dated February 21, 2007, signed and sealed by Walter A. Tillit, Jr., P.E.

3. MISSILE IMPACT RESISTANCE:

Large missile impact under section 1609.1.4 of the Florida Building Code, as per ASTM E-1886 and ASTM E-1996 Standards. Missile level "D".

4. WIND LOADS RESISTANCE:

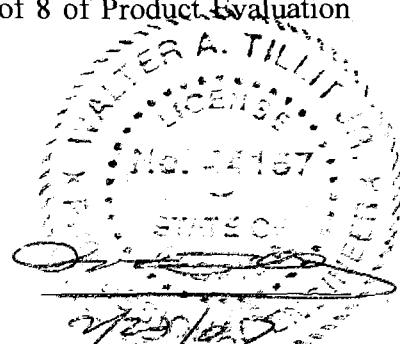
Barracuda End Retention Roll Up Shutter System has been verified to sustain wind pressures. Maximum Shutter Span shall be as indicated on sheet 5 thru 8 of Product Evaluation Document (P.E.D.), drawing No. 06-060. Maximum Anchor Spacing and Specifications shall be as indicated on sheets 4, 5, 6 and 7 of 8 of Product Evaluation Document (P.E.D.), drawing No. 06-060. Installation qualified to wind zones 1, 2, 3 and 4 per section 6.2.2 of ASTM E-1996 Standard.

5. INSTALLATION:

Shall be performed strictly in accordance with the details indicated on sheets 1, 4, 5, 6 and 7 of 8 of Product Evaluation Document (P.E.D.), drawing No. 06-060. Minimum separation to glass shall be as indicated on sheets 6 and 7 of 8 of Product Evaluation Document (P.E.D.), drawing No. 06-060.

6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:

Shall be strictly in accordance with General Notes and Components indicated on sheets 1, 2 and 3 of 8 of Product Evaluation Document (P.E.D.), drawing No. 06-060. Anchor specifications shall be as indicated on sheets 1 and 4 thru 7 of 8 of Product Evaluation Document (P.E.D.), drawing No. 06-060.



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7. LIMITATIONS AND CONDITIONS OF USE:

7.1. Shall be strictly in compliance with General Notes No. 1, 7, 8, 9, 10 and 11, indicated on sheet 1 of 8, of Product Evaluation Document (P.E.D.), drawing No. 06-060 prepared by Tilteco, Inc. and signed and sealed by Walter A. Tillit, Jr., P.E.

7.2. Product shall not be installed within HIGH VELOCITY HURRICANE ZONES as defined on section 1620.2 of the Florida Building Code, and may be installed within wind zones 1, 2, 3 and 4, as defined by Section 6.2.2 of ASTM E-1996 Standard.

7.3. Product shall only be installed into poured concrete, concrete block, and wood frame structures, as limited and defined on Product Evaluation Document No. 06-060.

Product Evaluation Report prepared by Walter A. Tillit, Jr., P.E. (Florida License No. 44167), President of Tilteco, Inc. (Florida EB-0006719).

