

Evaluation Report

Title: Evaluation of Commercial Hardware

Report #: IR2013-001

Manufacturer: Ingersoll-Rand Company
Security Technologies
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I. Introduction/ Scope

Based on wind load and impact/cyclic testing for commercial hardware, the following report will review the wind load and impact requirements for a series of Schlage, Dexter and Broadway hardware.

All hardware testing from CTL was conducted per TAS 201-94 (Impact Test Procedures), TAS 202-94 (Uniform Static Air Pressure) and TAS 203-94 (Criteria for Testing Products Subject to Cyclic Wind Pressure Loading).

II. Reference Documents

The following documents were referenced in the creation of the evaluation report:

1. Certified Testing Laboratories Report No. CTLA-992W, Dated January 2, 2003
2. Dade County NOA 12-0305.08, IR Series "Schlage/Broadway/Dexter, Cobra Keypad" Passage Locks w/ Deadbolts, Expiration 11/28/2013
3. Dade County NOA 08-0908.19, IR Series "Schlage/Broadway/Dexter, Cobra Keypad" Passage Locks w/ Deadbolts, Expiration 11/28/2013
4. IR Dwg S-2303, Schlage Lock Hardware, Sheets 1 of 12, Rev H, Dated 5/17/2013
5. Florida Product Approval, FL 3265-R3

III. Product Evaluation

The following table summarizes the hardware configurations that have been tested and evaluated to Florida Building Code test protocols.

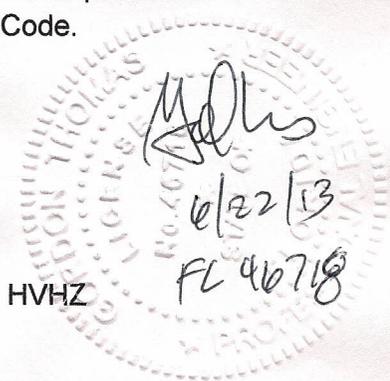
Item	IR Brand (s)	Hardware Family	Design Pressure	Impact	Approval Method	Engineering Drawing	Notes
1	Schlage F Series	Cylindrical Deadbolt	+/- 67 psf	Yes	Test CTLA-992W	S-2303	
2	Schlage F Series	Passage Deadbolt	+/-67 psf	Yes	Test CTLA-992W	S-2303	
3	Schlage Dexter Broadway	Latch Deadbolt Keypad	+/-67 psf	Yes	Test CTLA-992W	S-2303	
4	Schlage Dexter Broadway	Latch Deadbolt Plus Keypad	+/-67 psf	Yes	Test CTLA-992W	S-2303	
5	Schlage S200	Entrance Deadbolt	+/-55 psf	Yes	Test CTLA-992W	S-2303	
6	Dexter	Cylindrical Deadbolt	+/-67 psf	Yes	Test CTLA-992W	S-2303	
7	Broadway	Cylindrical Deadbolt	+/-67 psf	Yes	Test CTLA-992W	S-2303	
8	Schlage S200	Entrance Deadbolt	+/-67 psf	Yes	Test CTLA-992W	S-2303	

IV. Limitations of Use

The drawings referenced above provide the primary details for the limitations of use. The door hardware details are contained in the IR drawings listed above. This includes details on strike plates, throw, deadbolt and screws types/sizes.

I have concluded that the configurations shown above comply with the structural requirements for the wind load and large missile impact requirements of the 2010 Florida Building Code.

Maximum Door width	3'-0"
Maximum Door Height	8'-0"
Mounting	Inswing or outswing
Maximum Wind Load	+/-67 psf
Hardware Details	Reference drawings listed above
Impact Rating	Rated for TAS 201 impact rating and for HVHZ



Certification of Independence Of Evaluation Entity

I hereby certify that (1) I have no Financial interest in Ingersoll Rand Security Technologies; (2) I am an Independent licensed Professional Engineer in the State of Florida and; (3) I comply with the criteria of independence as stated in 9B-72.110 (3), F.A.C. and (b-72-110(4), F.A.C.