Horton Automatics Division of Overhead Door
4242 Baldwin Boulevard
Corpus Christi, TX 78405

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ). This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.
This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series “110” (O-Sx-Sx-O) and Series “310 ” (So-Sx-Sx-So) and (So-Sx) Aluminum Automatic Sliding Door (Steel Reinforced) w/ Breakout-SMI

APPROVAL DOCUMENT: Drawing No. 040302-S Rev 3, titled “Series 110/310 Small Missile Impact”, sheets 1 through 8 of 8, prepared by manufacturer, dated 03/02/04 and last revised on 10-08-2018, signed and sealed by John E. Scates, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Small Missile Impact Resistant

Limitations:
1. Series 110 (O-Sx-Sx-O) and Series 310 (So-Sx-Sx-So) w/Fixed Push bar & AR top/bottom Flush bolts w/MS18505 lock are rated at DP= +/- 55 PSF & 4-panels Max 192”W x 104”H. The Series 310 (So-Sx-Sx-So) with AR G-86 panic device is limited to DP = +/- 45 PSF & max unit size 168” WX 96H. Applicable O-Sx or So-Sx is qualified.
2. Not approved where water infiltration is required.
3. Electrical/ Electronic functions are not part of this approval and to be reviewed by appropriate Bldg. official.
4. Anchors referenced at Equal spacing must not exceed 12” unless otherwise noted.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.
This NOA revises # 17-09828.08, consists of this page 1 and evidence pages E-1 & E-2, as well as approval document mentioned above.
The submitted documentation was reviewed by Ishaq I. Chanda, P.E.
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous approvals

A. DRAWINGS
   1. Manufacturer’s die drawings and sections (see files below).
   2. Drawing No. 040302-S Rev 2, titled “Series 110/310 Small Missile Impact”, sheets 1 through 8 of 8,
      prepared by manufacturer, dated 03/02/04 and last revised on 04-08-2016, signed and sealed by John E.
      Scates, P.E.

B. TESTS (Submitted under files #15-0922.15/#14-0602.06/#12-0801.08/# 09-0624.05)
   1. Test reports on:
      1) Air Infiltration Test, per FBC, TAS 202-94
      2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
      3) Water Resistance Test, per FBC, TAS 202-94 (Not conducted)
      4) Small Missile Impact Test per FBC, TAS 201-94
      5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
      6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

   along with installation diagram of aluminum automatic sliding glass doors, prepared by Hurricane
   Testing Laboratories, Test Report No(s) HTL-0322-0908-03 (Sp#6 & #7), HTL-0322-0611-03
   (sp#5) and HTL-0322-0119-04 (sp#1), all signed and sealed dated 02/16/04 by Vinu J. Abraham,
   P.E.

C. CALCULATIONS (Submitted under file # 09-0624.05)
   1. Anchor verification calculations and structural analysis complying w/ FBC 2014 (5th edition),
      dated 09/11/15, prepared, signed and sealed by John E. Scates, P.E.
   2. Glazing complies w/ ASTM-1300-02, -04 & -09.

D. QUALITY ASSURANCE
   1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS
   1. Notice of Acceptance No. 14-0916.10 issued to Kuraray America, Inc. (former E.I. DuPont
   2. Technical data sheet for glazing bead item # 57, ExxonMobil Chemical’s Santoprene™ 121-
      67W175 thermoplastic, extruded by Central Chemical Inc.

F. STATEMENTS
      11, 2015, signed & sealed by John E. Scates, P.E.
   2. Addendum letter dated 06-12-08, issued by Hurricane Testing lab, signed and sealed by Vinu
      Abraham, P. E.
   3. Lab compliance as part of the above referenced test report.

G. OTHER
   1. This NOA revises & renews #14-0602.06, expiring 08/19/23.
   2 Evidence submitted under previous approvals (#17-0828.08).

A. DRAWINGS
   1. None.

B. TESTS
   1. None.

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 18-1025.14
Expiration Date: August 19, 2023
Approval Date: December 20, 2018

E-1
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under previous approvals (#17-0828.08) continue:

C. CALCULATIONS
   1. None

D. QUALITY ASSURANCE
   1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS
   1. Notice of Acceptance No. 16-1117.01 issued to Kuraray America, Inc. (former E.I. DuPont
      DeNemours & Co., Inc.) for “Trosol, ultra-clear & color PVB former Butacite PVB
      Interlayer”, expiring on 07/08/19.

F. STATEMENTS
      11/02/17, prepared, signed and sealed by John E. Scates, P.E.

G. OTHER
   1. This NOA revises NOA # 15-0922.15, expiring 08/19/2023.

1. New Evidence submitted

A. DRAWINGS
   1. Drawing No. 040302-S Rev 3, titled “Series 110/310 Small Missile Impact”, sheets 1 through 8
      of 8, prepared by manufacturer, dated 03/02/04 and last revised on 10-08-2018, signed and
      sealed by John E. Scates, P.E., (Note: This revision consists of updating setting block at glazing
detail)

B. TESTS
   1. None

C. CALCULATIONS
   1. None

D. QUALITY ASSURANCE
   1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS
   1. 1. Notice of Acceptance No. 14-0916.10 issued to Kuraray America, Inc. (former E.I. DuPont
   2. Technical data sheet for glazing bead item # 57, ExxonMobil Chemical’s SantopreneTM 121-
      67W175 thermoplastic, extruded by Central Chemical Inc.

F. STATEMENTS (submitted under #17-0828.08)
      11/02/17, prepared, signed and sealed by John E. Scates, P.E.

G. OTHER
   1. This NOA revises NOA # 17-0828.08, expiring 08/19/2023.

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Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 18-1025.14
Expiration Date: August 19, 2023
Approval Date: December 20, 2018
TYPE 110 & 310 Header
(Refer to Faceplate Location)

HEADERS
Steel (0.125" Thick, Fy=36 KSI) - INTERCORP #14
Steel HWH Self-Drilling Screw, 0.625" Min. Edge Distance
(Full Thread Engagement)
Aluminum (0.125" Thick Min. 6063-T5) - 1/4"-14
HWH Sheetmetal Screw, 1" Min. Edge Distance.
(Full Thread Engagement)

(AllSteel)
Steel (0.125" Thick, Fy=36 KSI) - ITW TEKS SCREW
#14-20, FH w/WINGS Self-Drilling Screw
0.625" Minimum Edge Distance
Concrete (3350 PSF) - Crete-Flex SS4 1/4" FH
Concrete Screw/Anchor, 1.75" Embed,
2.5" Min. Edge Distance

Masonry (Solid CMU Block) - Crete-Flex SS4 1/4"
FH Concrete Screw/Anchor, 1.25" Embed,
2.5" Min. Edge Distance
Aluminum (0.125" Thick Minimum 6063-T5) -
1/4"-14 FH Sheetmetal Screw, 1" Min. Edge Distance.
Wood (2 #8-1/4" x 4" Long Lag Bolt
2.75"Minimum Penetration, 1" Minimum Edge
Distance (2) 2 x 8 W/ Min G = .50

THRESHOLD
Steel (0.125" Thick, Fy=36 KSI) - ITW TEKS SCREW
#14-20 PTH w/WINGS Self-Drilling Screw, 0.625"
Minimum Edge Distance (Full Thread Engagement)
Concrete (3350 PSF) - Crete-Flex SS4 FH 1/4"
Concrete Screw 1.75" Embed, 2.5" Minimum Edge Distance
Aluminum (0.125" Thick Minimum 6063-T5) -
1/4"-14 FH Sheetmetal Screw, 1" Minimum
Edge Distance (Full Thread Engagement)

The frame must be shimmed
with a type of shim complying
with the Florida Building Code
and is capable of resisting the
frame’s rotation-1/4" thick. Max.

2000 110 & 310 Single Slide -Small Missile Impact
FASTENER LOCATIONS

DETAIL A Ext. 3
(110 & 310)

DETAIL B Ext. 8

DETAIL C Ext. 6

NOTE
Fastener spacing is the same for
110 & 310 except as noted

DETAIL A Ext. 3
(110 & 310)

DETAIL B Ext. 8

DETAIL C Ext. 6

The 4/3 increase stress factor for wind loads was not used in
the anchor calculations.

2000 110 & 310 Single Slide -Small Missile Impact
FASTENER LOCATIONS

Dwg. No. 040302-S

Horton
5100 PAN ROAD
TAMPA, FL 33614
(813) 520-8200

WWW.HORTONWWW.COM

MICROMETRO-RADE
LOCATION:
Dwgs.
Dwg. No. 040302-S

PRODUCT REVISIONS
ON-SITE COMPLIANT WITH BIA BUILDING CODE
AEROSPORTS NO. 155177/1
EXPIRATION DATE 06/30/08
PRODUCT: MICROMETRO-RADE
LOCATION: SINGLE SLIDE FASTENER LOCATIONS
Dwgs. A & S
Dwg. No. 040302-S

Dwg. No. 040302-S
ITEM #   | PART NUMBER | DESCRIPTION |
--- | --- | --- |
1 | C00265.000R | ALUMINUM EXTRUSION: HEADER |
2 | C00266.000R | ALUMINUM EXTRUSION: FACEPLATE |
3 | C00264.000R | ALUMINUM EXTRUSION: TRAY |
51 | C00633.0003 | CORNER BLOCK |
52 | C00155.0000 | 1/4-20 X 3/4 HSHM |
53 | C00536.0004 | CORNER BLOCK |
54 | C00491.0001 | CORNER BLOCK |
55 | C01044.0001 | CORNER BLOCK |
56 | C00437.0000 | #15-24 X 1/2" FHMS |
57 | C00341.0001 | GLAZING BEAD |
58 | C00291.0001 | TRACK CAP |
59 | C00380.0001 | TRACK |
60 | C00355.000R | ALUMINUM EXTRUSION: ASTRAGAL |
61 | C00954.001AB | #8 X 1/2 FHMS |
62 | C02361.0000 | PANIC EXIT DEVICE ADAMS RITE G69H W/ CONCEALED ROD |
63 | C02276.001ABC | FIXED PUSHBAR, ALUMINUM TUBE |
64 | C09719.0000 | ALL THREAD 3/8-16 |
65 | C00371.000R | WEDGES TRIPP STRIP TO JAMB |
66 | C00398.0000 | ALUMINUM EXTRUSION, MOHAR ADAPTOR |
67 | C00389.006FL | INTERLOCK SEAL SCHLEGEL #7595-0011-0 |
68 | C00289.0000 | TRACK CAP |
69 | C00356.0003 | CORNER BLOCK |
70 | C01041.0000 | 1/4-20 FHMS |
71 | C01046.0000 | BACKUP PLATE |
72 | C00536.000R | BACKUP PLATE |
73 | C02966.0002(C06967.0001) | ALUMINUM EXTRUSION: BOTTOM RAIL 10' |
74 | C00342.005AB | ALUMINUM EXTRUSION: BOTTOM RAIL 5' |
75 | C02797.000AB | ALUMINUM EXTRUSION: BOTTOM RAIL 5' |
76 | C00502.0004 | BOTTOM GUIDE DOOR MOUNTED |
77 | C00052.0003 | GLAZING BLOCK, SNAP-IN NYLON 6-6 MIN HARDNESS |
78 | C00550.0000 | ROCKWELL MS8 |

WEATHERSEALS:
C389-FL INTERLOCK SEAL SCHLEGEL CORP. FINSEAL #7595-6011-0
C350 NOSING SEAL SCHLEGEL CORP. SKIRTNG SEAL #1104-5101
C524-FL SLIDE PANEL BOTTOM SEAL FELTON NYLON BRISTLE #490621
C293 SLIDE PANEL TOP SEAL SCHLEGEL #8430-5016-7

HARDWARE:
C454 MAX SECURITY LOCK ADAMS-RITE #MS18505S-250-628
C463 THUMBTURN ADAMS-RITE #4066
C487 EXIT INDICATOR ADAMS-RITE #4089
C383 THRESHOLD BOLT ADAMS-RITE #4015
C815-RFL, C817-FL, C2130-1FL SLIDE TOP ROLLER ASSEMBLIES
C843-1FL & C844-4FL BOTTOM GUIDES

Series 310 / 110 Small Missile Impact

Bill of materials Dwg No. 040302-S