



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING**

**140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908**

www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

**Integridyne LC
7963 NW 70th Avenue
Parkland, Florida 33067**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: 0.060" (min.) Aluminum Storm Panels Shutter

APPROVAL DOCUMENT: Drawing No. 08-INT-0001, titled "D-Track Emergency Storm Panel Quick Release Track", sheets 1 through 4 of 4, prepared by Engineering Express, dated 06/04/2008, last revision dated 02/26/2009, signed and sealed by Frank L. Bennardo, P.E., bearing Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise 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 NOA # 08-0618.01 and consists of this page 1, evidence submitted pages E-1 & E-2 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
04/22/2009

**NOA No. 09-0312.11
Expiration Date: 10/30/2013
Approval Date: 04/22/2009
Page 1**

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 08-0618.01

A. DRAWINGS

1. *Drawing No. 08-INT-0001, titled " D-Track Emergency Storm Panel Quick Release Track ", sheets 1 through 3 of 3, prepared by Engineering Express, dated 06/04/2008, last revision #2 dated 09/08/2008, signed and sealed by Frank L. Bennardo, P.E.*

B. TESTS

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test on 0.060" aluminum storm panels, prepared by Certified Testing Laboratories, Test Report No. CTLA 1864W-1R, dated 05/29/2008, signed and sealed by Ramesh C. Patel, P.E.*
2. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test on 0.060" aluminum storm panels, prepared by Certified Testing Laboratories, Test Report No. CTLA 1864W-R, dated 05/29/2008, signed and sealed by Ramesh C. Patel, P.E.*
3. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test on 0.060" aluminum storm panels, prepared by Certified Testing Laboratories, Test Report No. CTLA 1864W-1, dated 05/29/2008, signed and sealed by Ramesh C. Patel, P.E.*
4. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test on 0.060" aluminum storm panels, prepared by Certified Testing Laboratories, Test Report No. CTLA 1864W, dated 05/29/2008, signed and sealed by Ramesh C. Patel, P.E.*

C. CALCULATIONS

1. *Anchor Analysis, dated 06/12/2008, pages 1 through 8 of 8, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*



Helmy A. Makar, P.E., M.S.
Senior Product Control Examiner
NOA No. 09-0312.11
Expiration Date: 10/30/2013
Approval Date: 04/22/2009

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 08-INT-0001, titled "D-Track Emergency Storm Panel Quick Release Track", sheets 1 through 4 of 4, prepared by Engineering Express, dated 06/04/2008, last revision dated 02/26/2009, signed and sealed by Frank L. Bennardo, P.E.*

B. TESTS

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test on 0.060" aluminum storm panels, prepared by Certified Testing Laboratories, Test Report No. CTLA 1943W, dated 02/09/2009, signed and sealed by Ramesh C. Patel, P.E.*
2. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test on 0.060" aluminum storm panels, prepared by Certified Testing Laboratories, Test Report No. CTLA 1943W-1, dated 02/09/2009, signed and sealed by Ramesh C. Patel, P.E.*

C. CALCULATIONS

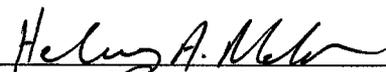
1. *Anchor Analysis, dated 06/12/2008, pages 1 through 8 of 8, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *Letter stating compliance with FBC 2007 prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.*



Helmy A. Makar, P.E., M.S.
Senior Product Control Examiner
NOA No. 09-0312.11
Expiration Date: 10/30/2013
Approval Date: 04/22/2009

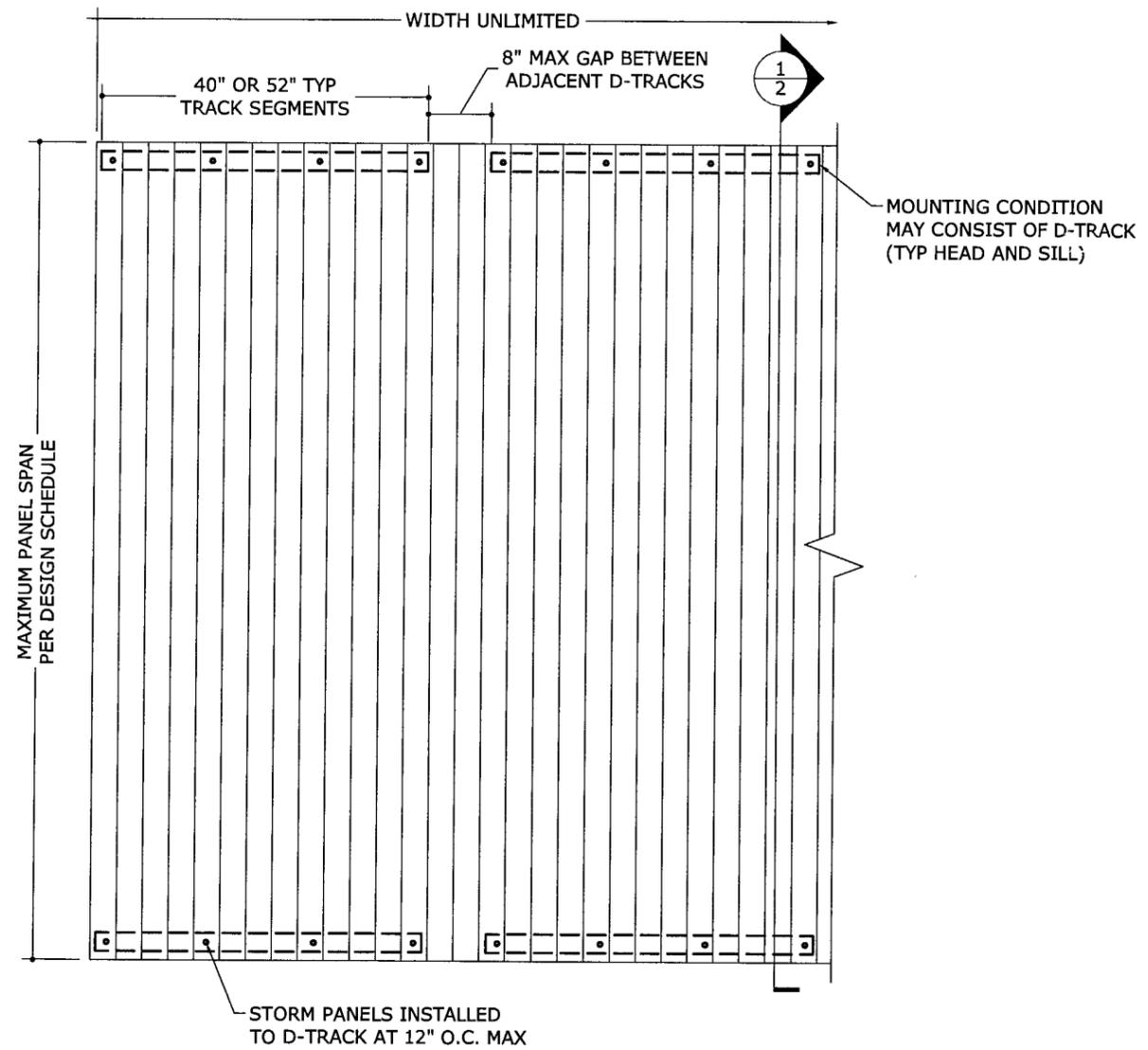
03/03/2009 - 12:08pm rbartlett F:\01 Project Files\Integrityne (INT)\2008\08-INT-0001 D-Track - Storm Panel Mounting Hardware (NOA)_03 Add Primary Egress Option\08-INT-0001_03b D-Track - Storm Panel Mounting Hardware (NOA).dwg

D-TRACK EMERGENCY STORM PANEL QUICK RELEASE TRACK

FRANK L. BENNARDO, P.E.
PE0046549

03/03/2009

ENGINEERING EXPRESS®
160 SW 12th AVENUE, # 106
DEERFIELD BEACH, FL 33442
Ph: (954) 354-0660 Fax: (954) 354-0443
WWW.ENGEXP.COM
CERT OF AUTH #9885
A FRANK L. BENNARDO, P.E., INC. INNOVATION



1
TYPICAL ELEVATION
1
 N.T.S. ELEV VIEW

DESIGN SCHEDULE

MAXIMUM PANEL SPAN	MAXIMUM ALLOWABLE PRESSURES
UP TO 4'-6"	+/- 80.0 PSF
UP TO 8'-8"	+/- 60.0 PSF

GENERAL NOTES

1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE 2007 EDITIONS OF THE FLORIDA BUILDING CODE, FOR USE WITHIN THE HIGH VELOCITY HURRICANE ZONE, PER TAS 201 / 202 / 203 STANDARDS.
2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
4. MULTIPLE UNITS MAY BE INSTALLED TO UNLIMITED WIDTH AS SHOWN.
5. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
6. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS.
9. ALL STORM PANELS SHALL BE 3004-H34 ALUMINUM WITH MINIMUM THICKNESS t=0.060".
10. ALL EXTRUSIONS SHALL BE 6061-T5 ALUMINUM ALLOY, UNLESS NOTED OTHERWISE.
11. D-TRACK SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER TRACK CONTAINING THE FOLLOWING:
 INTEGRIDYNE LC
 PARKLAND, FL
 MIAMI-DADE PRODUCT CONTROL APPROVED
12. TOP & BOTTOM DETAILS SHOWN MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. PANELS MAY BE MOUNTED VERTICALLY OR HORIZONTALLY AS APPLICABLE.
13. USE OF KEYHOLE WASHERS SHALL BE IN ACCORDANCE WITH STORM PANEL PRODUCT APPROVAL.
14. ALL BOLTS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60 KSI. WINGNUTS SHALL BE DIE CAST ZINC OR EQUIVALENT.
15. ALL ALUMINUM IN CONTACT WITH STEEL SHALL BE PAINTED OR PLATED AS PRESCRIBED IN THE ABOVE-NOTED BUILDING CODE.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 09-0312-11
Expiration Date 10/30/2013
By Heather A. Miller
Miami Dade Product Control Division

INTEGRIDYNE LC
7963 NW 70TH AVENUE
PARKLAND, FL 33067

D-TRACK EMERGENCY STORM PANEL
QUICK RELEASE TRACK

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	RKB	CL	06/04/08
BCCO COMMENTS	RKB	CL	09/08/08
2007 FBC	RKB	CL	10/26/09

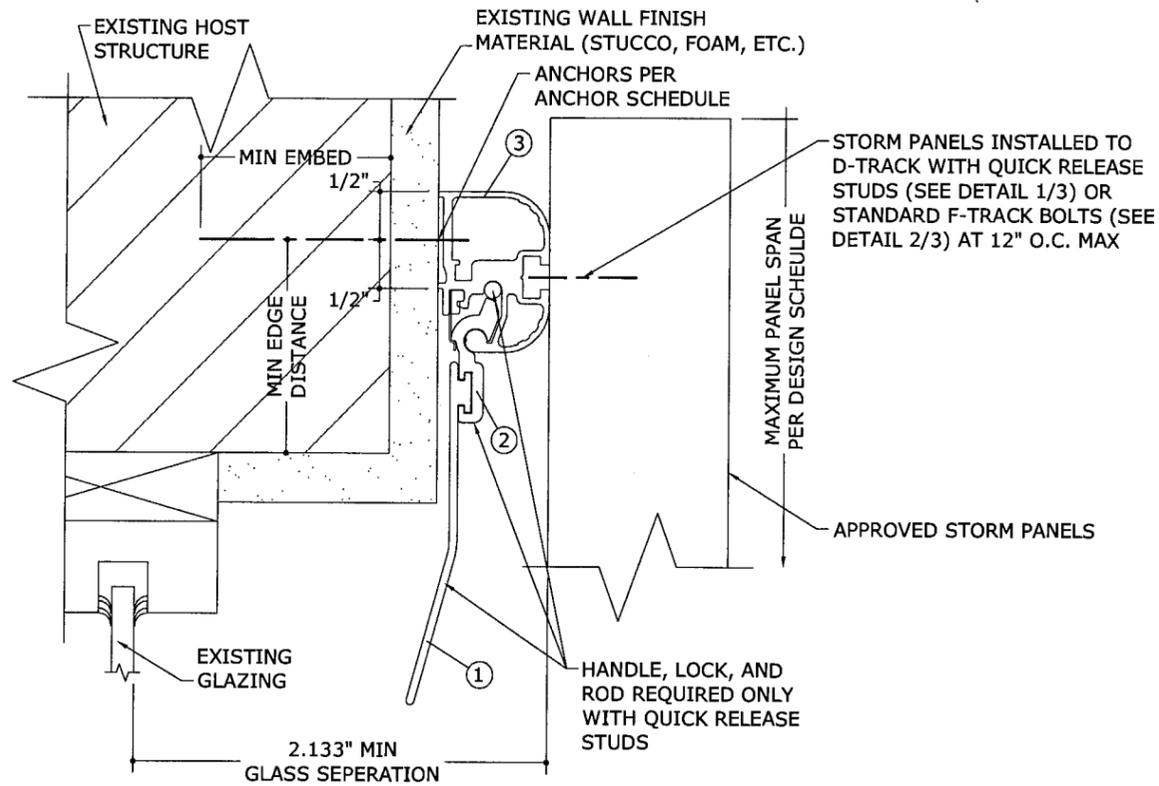
08-INT-0001

SCALE: 03

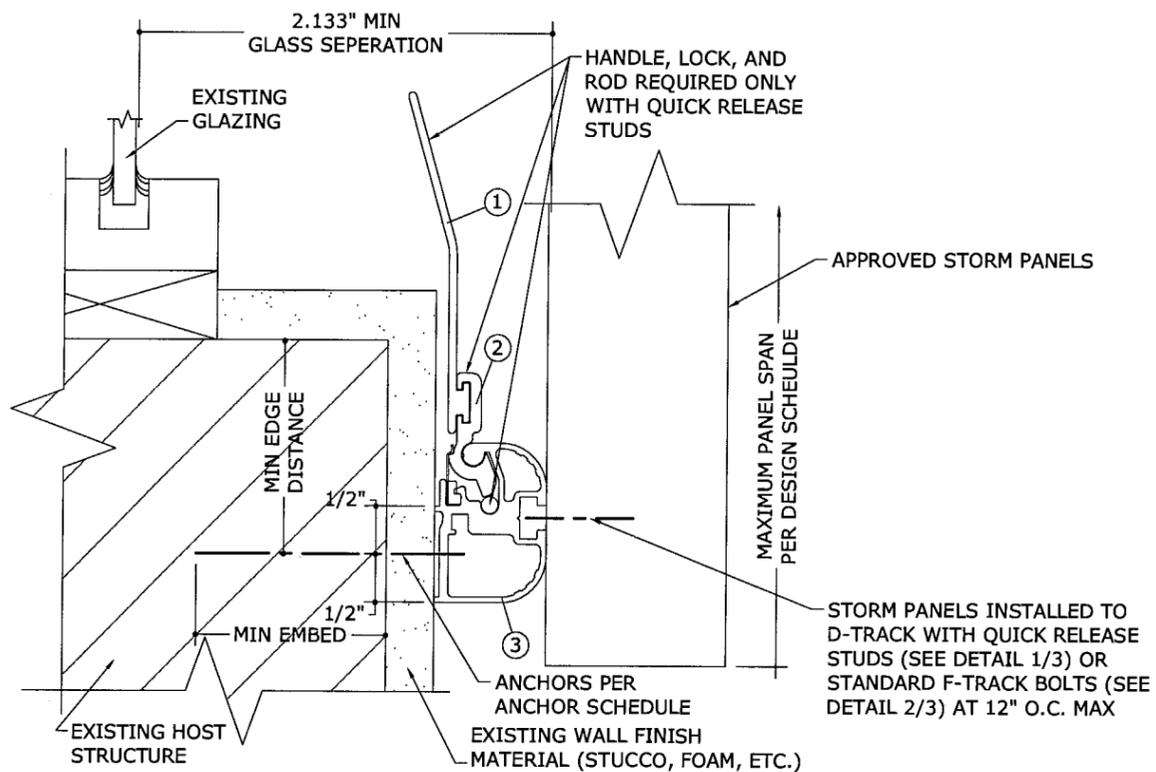
PAGE DESCRIPTION:

1

03/03/2009 - 12:08pm rbartlett F:\01 Project Files\Integrityne (INT)\2008\08-INT-0001 D-Track - Storm Panel Mounting Hardware (NOA) 03 Add Primary Egress Option\08-INT-0001 D-Track - Storm Panel Mounting Hardware (NOA).dwg

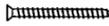


1 TYPICAL SECTION AT HEAD
2 N.T.S. SECTION



2 TYPICAL SECTION AT SILL
2 N.T.S. SECTION

ANCHOR SCHEDULE:

HOST STRUCT	ANCHOR	MAXIMUM SPACING
CONCRETE	1/4" ITW TAPCON WITH 1-3/4" EMBED (3192psi MIN CONC) & 2-1/2" MIN EDGE DIST 	12" O.C.
	1/4" ELCO ULTRACON WITH 1-3/4" EMBED (2700psi MIN CONC) & 2-1/2" MIN EDGE DIST 	12" O.C.
	1/4" POWERS TAPPER WITH 1-3/4" EMBED (3000psi MIN CONC) & 3" MIN EDGE DIST 	12" O.C.
GROUT FILLED BLOCK	1/4" ELCO ULTRACON WITH 1-3/4" EMBED & 2-1/2" MIN EDGE DIST 	12" O.C.
	1/4" POWERS TAPPER WITH 1-1/2" EMBED & 3" MIN EDGE DIST 	12" O.C.
HOLLOW BLOCK	1/4" ITW TAPCON WITH 1-1/4" EMBED & 2-1/2" MIN EDGE DIST 	6" O.C.
	1/4" ELCO ULTRACON WITH 1-1/4" EMBED & 2-1/2" MIN EDGE DIST 	6" O.C.
	1/4" POWERS TAPPER WITH 1-1/4" EMBED & 3" MIN EDGE DIST 	6" O.C.
WOOD	#14 WOOD SCREWS OR 1/4" MASONRY SCREWS (ITW, ELCO, OR POWERS) WITH 1-1/2" MIN THREAD PENETRATION & 3/4" MIN EDGE DIST  	12" O.C.

PRODUCT REVISED
 as complying with the Florida Building Code
 Acceptance No 09-0312-11
 Expiration Date 10/30/2013
 By *Helmut A. Miller*
 Miami Dade Product Control Division

ANCHOR NOTES:

- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- WHERE ANCHORS FASTEN TO NARROW FACE OF STUD FRAMING, ANCHOR SHALL BE LOCATED IN CENTER OF NOMINAL 2x (MIN) WOOD STUD (i.e. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR ANCHORS TO WOOD FRAMING).
- WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
- MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
- ANCHOR SCHEDULE APPLIES TO ALL PRODUCTS CERTIFIED HEREIN, BUT ONLY PROVIDES MAXIMUM ALLOWABLE ANCHOR SPACING. MAXIMUM ALLOWABLE SPANS AND PRESSURES INDICATED IN DESIGN SCHEDULE SHALL APPLY.
- WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.

FRANK L. BENNARDO, P.E.
 # PE0046549

03/03/2009

ENGINEERING EXPRESS
 160 SW 12th AVENUE, #106
 DEERFIELD BEACH, FL 33442
 Ph: (954) 354-0660 Fax: (954) 354-0443
 WWW.ENGEXP.COM
 CERT OF AUTH #8885
 A FRANK L. BENNARDO, P.E., INC. INNOVATION

INTEGRIDYNE LC
 7963 NW 70TH AVENUE
 PARKLAND, FL 33067
 D-TRACK EMERGENCY STORM PANEL
 QUICK RELEASE TRACK

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	RKB	CL	06/04/08
BCCO COMMENTS	RKB	CL	09/08/08
2007 FBC	RKB	CL	02/26/09

08-INT-0001
 SCALE: 1/4" = 1'-0"
 PAGE DESCRIPTION:

2

03/03/2009 - 12:09pm rbarlett F:\01 Project Files\Integrityne (INT)\2008\08-INT-0001 D-Track - Storm Panel Mounting Hardware (NOA).dwg

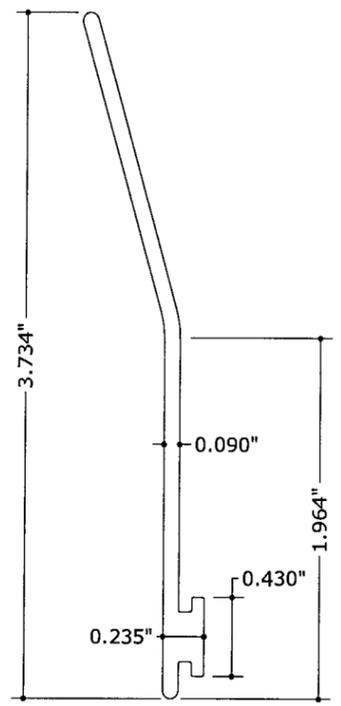
STANDARD CONFIGURATION

FRANK L. BENNARDO, P.E.
PE0046549

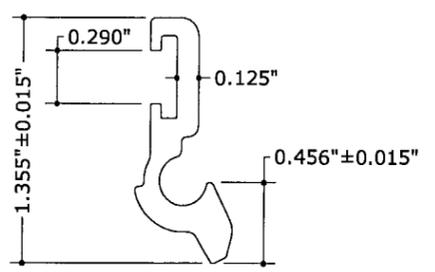
03/03/2009

ENGINEERING EXPRESS
160 SW 12th AVENUE, #106
DEERFIELD BEACH, FL 33442
Ph: (954) 354-0660 Fax: (954) 354-0443
WWW.ENGEXP.COM
CERT OF AUTH #9885
A FRANK L. BENNARDO, P.E., INC. INNOVATION

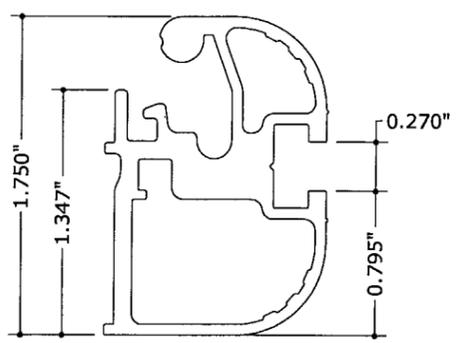
INTEGRIDYNE LC
7963 NW 70TH AVENUE
PARKLAND, FL 33067
D-TRACK EMERGENCY STORM PANEL
QUICK RELEASE TRACK



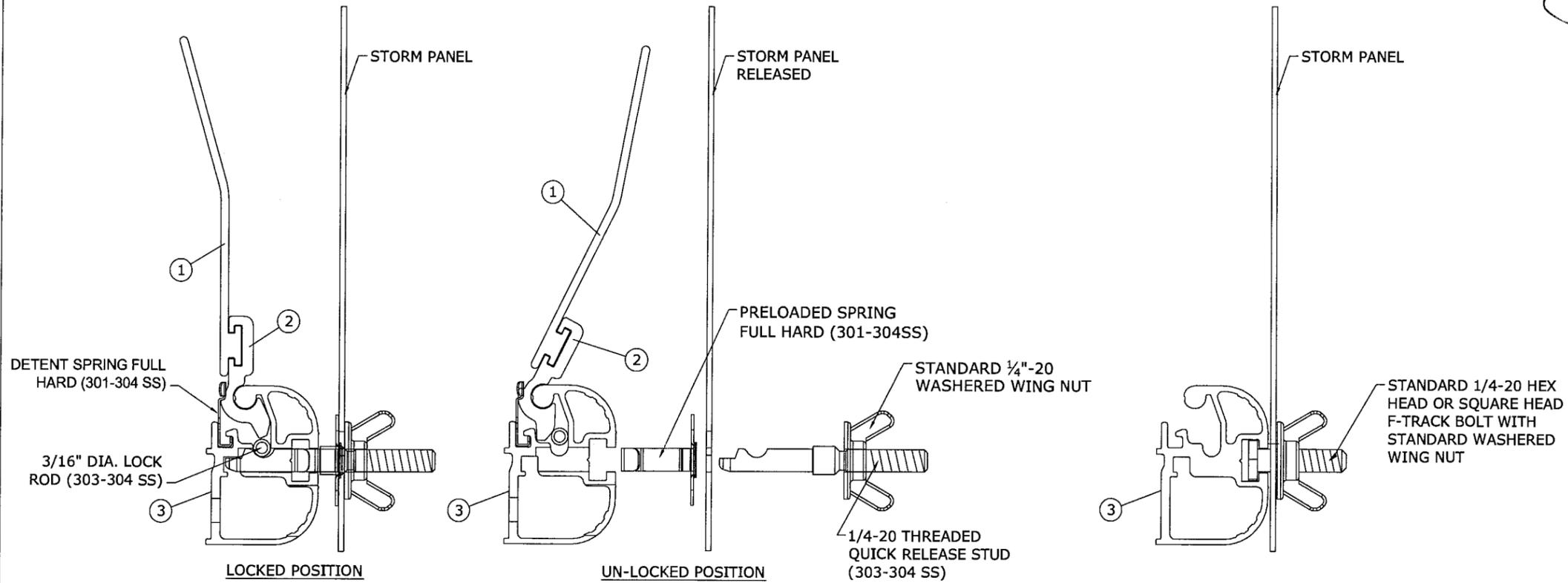
1 EXTRUSION HANDLE
1'-0" = 1'-0" 6061-T5 ALUM.



2 EXTRUSION LOCK
1'-0" = 1'-0" 6061-T5 ALUM.

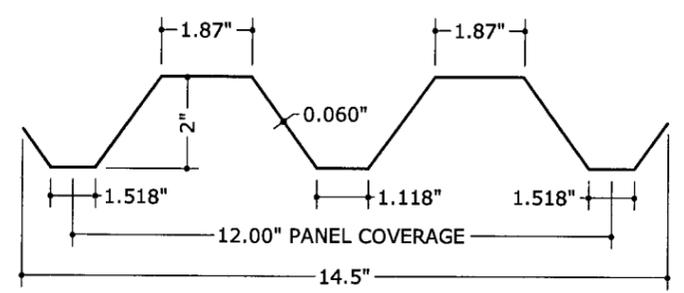


3 EXTRUSION BASE
1'-0" = 1'-0" 6061-T5 ALUM.

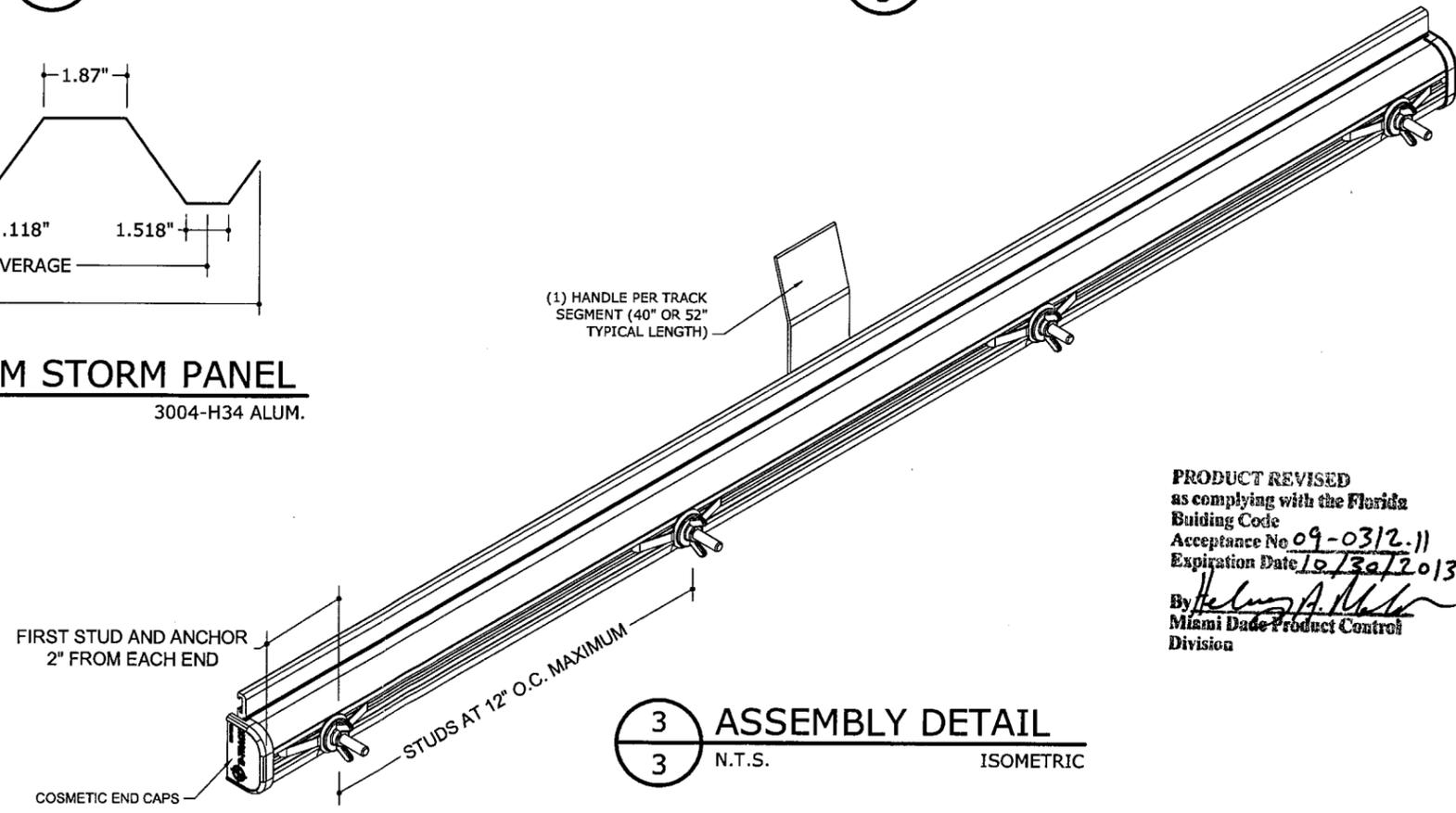


1 INSTALLATION WITH QUICK RELEASE STUDS
SECTION 3 N.T.S.

2 INSTALLATION WITH STANDARD F-TRACK BOLT
SECTION 3 N.T.S.



4 FULL ALUMINUM STORM PANEL
3" = 1'-0" 3004-H34 ALUM.



3 ASSEMBLY DETAIL
SECTION 3 N.T.S. ISOMETRIC

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 09-03/2-11
Expiration Date 10/30/2013
By *Helmut A. Mark*
Miami Dade Product Control
Division

DRWN	CHKD	DATE
RKB	CL	06/04/08
RKB	CL	09/08/08
RKB	CL	02/26/09

REMARKS	INIT	ISSUE
BCCO COMMENTS		
2007 FBC		

08-INT-0001
SCALE: 1/8" = 1'-0"
PAGE DESCRIPTION:

3

PRIMARY EGRESS CONFIGURATION

FRANK L. BENNARDO, P.E.
PE0046549

03/03/2009



160 SW 12th AVENUE, #106
DEERFIELD BEACH, FL 33442
PH: (954) 354-0660 FAX: (954) 354-0443
WWW.ENGEXP.COM

CERT. OF AUTH. #9885
A FRANK L. BENNARDO, P.E., INC. INNOVATION

INTEGRIDYNE LC
7963 NW 70TH AVENUE
PARKLAND, FL 33067

D-TRACK EMERGENCY STORM PANEL
QUICK RELEASE TRACK

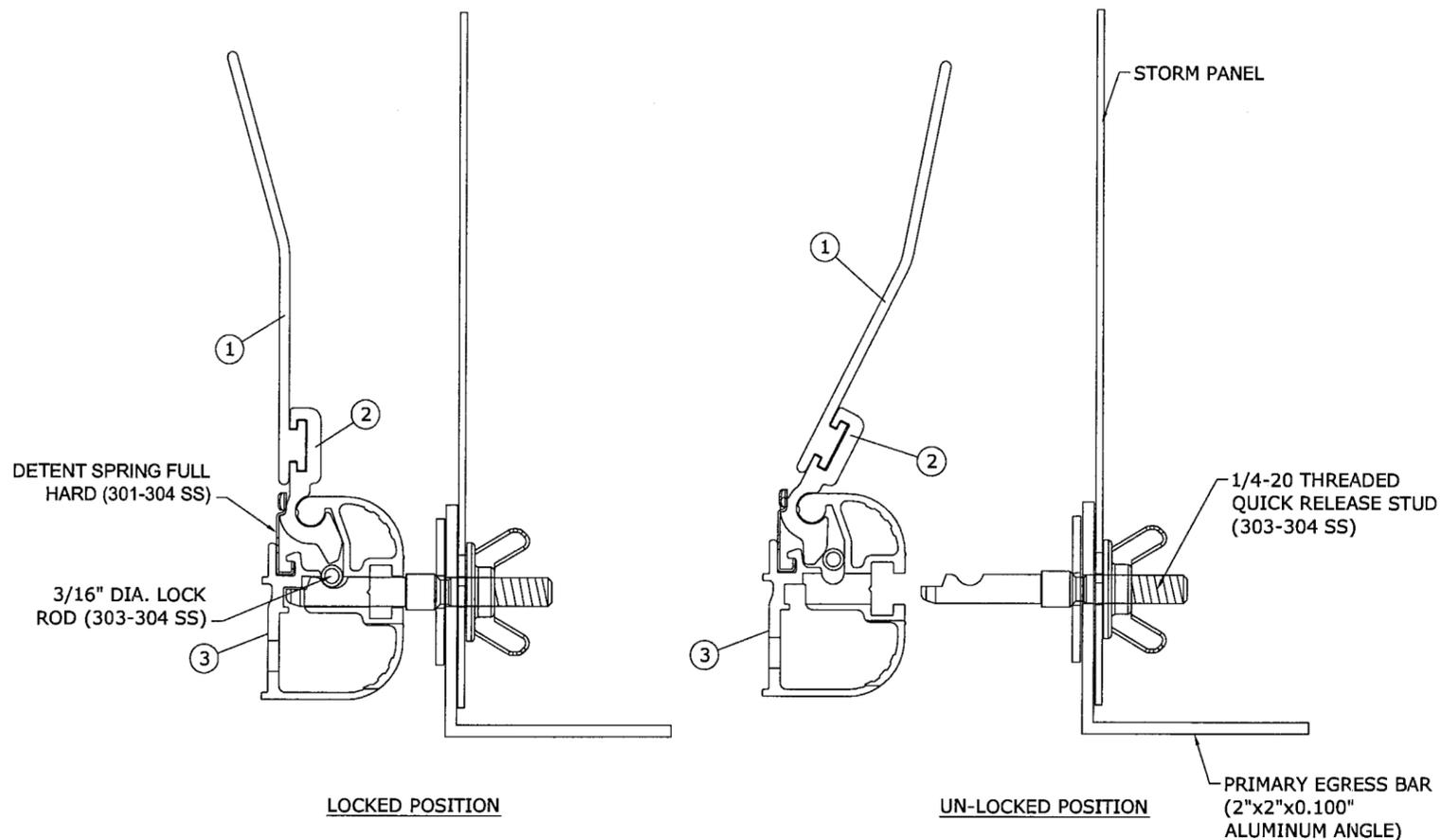
REMARKS	DRWN	CHKD	DATE
INIT ISSUE	RKB	CL	06/04/08
BCCO COMMENTS	RKB	CL	09/08/08
2007 FBC	RKB	CL	02/26/09

08-INT-0001

SCALE: 03

PAGE DESCRIPTION:

4



LOCKED POSITION

UN-LOCKED POSITION

PRIMARY EGRESS BAR
(2"x2"x0.100"
ALUMINUM ANGLE)

1
4 N.T.S. SECTION

INSTALLATION WITH QUICK RELEASE STUDS

(1) HANDLE PER TRACK SEGMENT (40" OR 52" TYPICAL LENGTH)

FIRST STUD AND ANCHOR 2" FROM EACH END

COSMETIC END CAPS

STUDS AT 12" O.C. MAXIMUM

PRIMARY EGRESS BAR SAME LENGTH AS TRACK SEGMENT (40" OR 52")

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 09-0312.11
Expiration Date 10/30/2013
By *Helmut A. Miller*
Miami Dade Product Control Division

2
4 N.T.S. ISOMETRIC

ASSEMBLY DETAIL