Daybar Industries Limited
50 West Drive
Brampton, Ontario, Canada L6T2J4

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 "LS-18" Outswing Commercial Steel (Galvanneal or Stainless) Doors w/ 16 ga Frames & w/wo Panic Exit Device-LM Impact

APPROVAL DOCUMENT: Drawing No 17-086 Rev1 (former #15-050 Rev 1), titled "Double & Single LS18 Outswing Commercial Galvanneal or Stainless Steel Doors w/ Series"AS"16 ga Steel frames", sheets 1 through 3, 3A and 4 thru 19 of 19 prepared by Tilteco Inc, dated 07/21/17, signed and sealed by Walter A. Tillit Jr., 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: Large and Small Missile Impact Resistant
Limitations:
1. See Design Pressure Ratings in sheets 2, 3 and 3A.
2. Lexan vision lites are limited per sheet 8.
3. Min edge distance required for ITW 3/16" Tapcon (item #22) is 2-5/8" and for Power 5/16-18 caulk-in anchor is 3-3/4".

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Brampton, Ontario 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 NOA # 16-0330.11 and 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.

MIA-MI-DADE COUNTY
APPROVED

NOA No. 17-0829.08
Expiration Date: April 07, 2021
Approval Date: November 22, 2017
Page 1
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous approvals

2. DRAWS
   1. Manufacturer's parts and sections drawings (see reference below).
   2. Drawing No 15-050 (former #12-010 Rev 1), titled “Double & Single LS18 Outswing Commercial Galvanneal or Stainless Steel Doors w/ Series”AS”16 ga Steel frames”, sheets 1 through 3, 3A and 4 thru 19 of 19 prepared by Tilteco Inc, dtd 03/27/15, signed & sealed by Walter A. Tillet Jr., P. E.
   Note: This revision is FBC 2014 with no change.

3. TESTS (submitted under file #16-0330.11)
   1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94 (except sp# 7 louver)
      2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
      3) Water Resistant Test, per FBC, TAS 202-94 (except sp# 7 louver)
      4) Large 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 (b) and TAS 202-94

   Along with marked-up drawings and installation diagram of double outswing steel door, prepared by Certified Testing Laboratories, Test Report No. CTLA 3079W dated 02/20/16, signed and sealed by Ramesh Patel, P.E.

   Along with marked-up drawings and installation diagram of outswing steel door, prepared by Hurricane Testing Laboratory, LLC, Test Report No. HT1-0279-0719-03 dated 07-16 thru 08-18-2003 for specimen 1, 2, 3, 7 & 7EMB, signed and sealed by Vinu J. Abraham, P.E. Submitted under files #15-0427.02/#12-0216.08/# 10-0217.05/#09-0323.21 Original test conducted per SFBC PA 201, 202 and 203-94

   Note: The above test report has been revised with addendum letters dated Dec 16, 2004 and a revised marked-up drawing issued on 12-15-2004 by Fenestration testing lab, signed and sealed by Vinu J. Abraham, P.E.

4. CALCULATIONS (submitted under file ##15-0427.02)
   1. Anchor Verification Calculations, complying w/ FBC-2014, dated 12-02-15, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillet Jr., P. E.

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

6. MATERIAL CERTIFICATIONS
   1. Tensile Test report No. Job#0279-0719-03, dated March 02, 2004, issued by Q C Metallurgical, Inc, per
      ASTME-8, signed & sealed by Frank E. Grate, P.E.(transferred from file # 10-0217.05)
   2. Notice of Acceptance No. 11-0920.07 issued to Dyplast Product, LLC (Former Apache Products Company) for “EPS-Expanded Polystyrene Insulation”, expiring on 01/11/17.

7. STATEMENTS

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 17-0829.08
Expiration Date: April 07, 2021
Approval Date: November 22, 2017
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHER
1. This NOA renews NOA #15-0427.02, expiring 04/07/21.
2. Verification test proposal approved by RER dated 04/07/15.
3. Manufacturer/Distributor agreement between Daybar Industries Limited, Canada and Daybar Southeast Manufacturing, N. Key Large, USA, signed by Mark Dodson and David Ball, respective officials of the companies.

2. New Evidence submitted

A. DRAWINGS
1. Drawing No 17-086 Rev1 (former #15-050 Rev 1), titled “Double & Single LS18 Outswing Commercial Galvanneal or Stainless Steel Doors w/ Series’AS’16 ga Steel frames”, sheets 1 through 3, 3A and 4 thru 19 of 19 prepared by Tilteco Inc, dated 07/21/17, signed and sealed by Walter A. Tillit Jr., P. E.

Note: This revision consist of general notes#1, 4, 5 and 12 changes, in compliance of FBC 2017 edition.

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. Notice of Acceptance No. 16-1129.05 issued to Dyplast Product, LLC (Former Apache Products Company) for “E and R Board Expanded Polystyrene Rigid Foam Insulation”, expiring on 01/11/22.

F. STATEMENTS
2. Statement letter of general notes revision only, in compliance with FBC 2017 edition, prepared by Tilteco Inc., dated 07/21/17, signed & sealed by Walter A. Tillit Jr., P. E.

G. OTHER
1. This NOA revises NOA # 16-0330.11, expiring 04/07/2021

[Signature]
Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 17-0829.08
Expiration Date: April 07, 2021
Approval Date: November 22, 2017
ASSEMBLY ELEVATIONS #1, 2 & 3
SEE SECTIONS ON SHEETS 5, 6 & 7

- SEE SHEET 3A FOR MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR ASSEMBLY COMBINATIONS.
ASSEMBLY ELEVATIONS #7, 7-EMB
SEE SECTIONS ON SHEET 7
- SEE SHEET 3A FOR MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR ASSEMBLY COMBINATIONS.
# MAX. A.S.D. DESIGN PRESSURE RATING (psf.) SCHEDULE FOR INSTALLATIONS COMBINING ASSEMBLIES #1 THRU #7-EMB BETWEEN EACH OTHER FOR A GIVEN ANCHOR JAMB TYPE *

<table>
<thead>
<tr>
<th>ITEM (SEE SHEET 190)</th>
<th>ANCHOR SPECIFICATIONS AT JAMBS</th>
<th>ASSEMBLY #1 (SEE SHEET 2)</th>
<th>ASSEMBLY #2 (SEE SHEET 2)</th>
<th>ASSEMBLY #3 (SEE SHEET 2)</th>
<th>ASSEMBLY #7 (SEE SHEET 3)</th>
<th>ASSEMBLY #7-EMB (SEE SHEET 3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>0.157&quot; DIA.x9 1/2&quot; LONG WIRE ANCHOR (SEE DETAIL 21/17)</td>
<td>+65, -65</td>
<td>+65, -65</td>
<td>+65, -65</td>
<td>+65, -65</td>
<td>+65, -65</td>
</tr>
<tr>
<td>7</td>
<td>2 PIECE COMBINATION STUD ANCHOR (SEE DETAIL 20/17)</td>
<td>+65, -65</td>
<td>+65, -65</td>
<td>+65, -65</td>
<td>+65, -65</td>
<td>+65, -65</td>
</tr>
<tr>
<td>8</td>
<td>EXISTING MASONRY ANCHOR &amp; E.M.A. (SEE DETAIL 22/17)</td>
<td>+65, -65</td>
<td>+65, -65</td>
<td>+65, -65</td>
<td>+65, -65</td>
<td>+65, -65</td>
</tr>
<tr>
<td>9B</td>
<td>CHANNEL IRON THROUGH BOLTING W/3/8&quot; x 3 1/2&quot; STEEL FLAT HEAD MACHINE SCREW &amp; E.M.A. (SEE DETAIL 23A/17)</td>
<td>+65, -533</td>
<td>+65, -533</td>
<td>+65, -533</td>
<td>+65, -533</td>
<td>+65, -533</td>
</tr>
<tr>
<td>9C</td>
<td>CHANNEL IRON W/3/8&quot; STITCH WELD (SEE DETAIL 23B/17)</td>
<td>+65, -533</td>
<td>+65, -533</td>
<td>+65, -533</td>
<td>+65, -533</td>
<td>+65, -533</td>
</tr>
</tbody>
</table>

* NOTES ON FRAME HEAD REQUIREMENTS *

1. FOR SINGLE & DOUBLE DOORS INSTALLED AT WOOD FRAME BUILDINGS, DOOR HEADS SHALL BE CONTINUOUSLY RETAINED BY EXISTING BUILDINGS WOOD HEADER FOLLOWING DETAILS AS PER SECTION E, SHEET 7.

2. FOR SINGLE & DOUBLE DOORS INSTALLED AT STEEL FRAME BUILDINGS, DOOR HEADS SHALL BE CONTINUOUSLY WELDED TO EXISTING BUILDINGS STEEL FRAME HEADER FOLLOWING DETAILS AS PER SECTION H, SHEET 7 & DETAIL 23B ON SHEET 17.

3. FOR SINGLE & DOUBLE DOORS INSTALLED AT CONCRETE / MASONRY BUILDINGS, DOOR HEADS NEED NOT BE ATTACHED TO EXISTING BUILDINGS HEADER. APPLICABLE TO SECTIONS D & F, SHEET 7.

---

**Florida Building Code (High Velocity Hurricane Zone)**

© HRW TILTED HC. ENGINEERING

**TILECO INC.**

DOUBLE & SINGLE SERIES 150 OUTSWING COMMERCIAL GALVANIZED OR STAINLESS STEEL DOOR H/S SERIES "AS" 16 GAUGE GALVANIZED OR STAINLESS STEEL FRAME, Flush, Engraved & Glazed Assemblies - L.M.

**DAYBAR INDUSTRIES LTD**

07/31/77

17-086

**WALTER A. TILLET INC.**

PROFESSIONAL ENGINEER

STATE OF FLORIDA

**WALTER A. TILLET INC.**

FLORENCE, S.C. 29506

**PRODUCTS REVIEWED**

As complying with the Florida Building Code:

Acceptance No. 17-0-27-0-8

Expiation Date: 12/31/77

**TILE TESTING & ENGINEERING COMPANY**

1030 N. WOLF RD., LAMBERT, TN 38044

07/31/77

17-086

**WALTER A. TILLET INC.**

FLORENCE, S.C. 29506
OPTIONAL EMBOSSED DOOR SLAB CONFIGURATIONS

NOTE:
EMBOSSED DOORS PERMITTED IN
SINGLES & PAIRS LIMITED TO DESIGN
PRESSURES NOTED FOR EACH ASSEMBLY
SECTION J-J
SCALE: 3/16"=1'

* STRUCTURAL MEMBER AT HEADER MUST BE DESIGNED TO CARRY 174 #/FT & BE REVIEWED BY BUILDING OFFICIAL.

SECTION D-D
SINGLE DOOR DOES NOT NEED MULLION, LATCH ONTO REINFORCED JAMB
SCALE: 3/16"=1'

SECTION E
SCALE: 3/16"=1'

SECTION F
PROFESSIONAL ENGINEER LICENSE
WALTER A. TILLOTSON
STATE OF FLORIDA
No. 44167

SECTION G
CONTINUES SAME AS SECTION I (AT BOTTOM)

SECTION I
CONTINUES SAME AS SECTION G (AT BOTTOM)

SECTION H
SCALE: 3/16"=1'

SECTION J
SCALE: 3/16"=1'
LOCATION
AT FRAME

SURFACE STRIKE REINFORCING

1. DIE MITERED CORNER CONT. WELDED INSIDE FACES & AT RETURNS
2. CAULK COMPLETE INSIDE CORNER WITH #5 GE SILICONE II

DETAIL 16
TYPICAL WELDED CORNER

FRAME SECTIONS AND REINFORCING DETAILS

16 EXTRUDED ALUMINUM THRESHOLD NGP #550NA

TILECO INC.
DAYBAR INDUSTRIES LTD

© 2017 TILED INC. ENGINEERING

NO. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE 6 SINGLE SERIES ULTIMATE COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "A" 16 GAUGE GALVANNEAL OR STAINLESS STEEL FRAME
FRAMES, ENDS & GLASS ATTACHMENTS - U.S.A.

DIN 85297/101

LICENSE NO. 41126

17-086

© 2017 TILED INC. ENGINEERING

DAYBAR INDUSTRIES LTD

NO. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE 6 SINGLE SERIES ULTIMATE COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "A" 16 GAUGE GALVANNEAL OR STAINLESS STEEL FRAMES, ENDS & GLASS ATTACHMENTS - U.S.A.

DIN 85297/101

LICENSE NO. 41126

© 2017 TILED INC. ENGINEERING

DAYBAR INDUSTRIES LTD

NO. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE 6 SINGLE SERIES ULTIMATE COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "A" 16 GAUGE GALVANNEAL OR STAINLESS STEEL FRAMES, ENDS & GLASS ATTACHMENTS - U.S.A.

DIN 85297/101

LICENSE NO. 41126

© 2017 TILED INC. ENGINEERING

DAYBAR INDUSTRIES LTD

NO. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE 6 SINGLE SERIES ULTIMATE COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "A" 16 GAUGE GALVANNEAL OR STAINLESS STEEL FRAMES, ENDS & GLASS ATTACHMENTS - U.S.A.

DIN 85297/101

LICENSE NO. 41126

© 2017 TILED INC. ENGINEERING

DAYBAR INDUSTRIES LTD

NO. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE 6 SINGLE SERIES ULTIMATE COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "A" 16 GAUGE GALVANNEAL OR STAINLESS STEEL FRAMES, ENDS & GLASS ATTACHMENTS - U.S.A.

DIN 85297/101

LICENSE NO. 41126

© 2017 TILED INC. ENGINEERING

DAYBAR INDUSTRIES LTD

NO. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE 6 SINGLE SERIES ULTIMATE COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "A" 16 GAUGE GALVANNEAL OR STAINLESS STEEL FRAMES, ENDS & GLASS ATTACHMENTS - U.S.A.

DIN 85297/101

LICENSE NO. 41126

© 2017 TILED INC. ENGINEERING

DAYBAR INDUSTRIES LTD

NO. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE 6 SINGLE SERIES ULTIMATE COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "A" 16 GAUGE GALVANNEAL OR STAINLESS STEEL FRAMES, ENDS & GLASS ATTACHMENTS - U.S.A.

DIN 85297/101

LICENSE NO. 41126

© 2017 TILED INC. ENGINEERING

DAYBAR INDUSTRIES LTD

NO. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE 6 SINGLE SERIES ULTIMATE COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "A" 16 GAUGE GALVANNEAL OR STAINLESS STEEL FRAMES, ENDS & GLASS ATTACHMENTS - U.S.A.

DIN 85297/101

LICENSE NO. 41126

© 2017 TILED INC. ENGINEERING

DAYBAR INDUSTRIES LTD

NO. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE 6 SINGLE SERIES ULTIMATE COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "A" 16 GAUGE GALVANNEAL OR STAINLESS STEEL FRAMES, ENDS & GLASS ATTACHMENTS - U.S.A.

DIN 85297/101

LICENSE NO. 41126

© 2017 TILED INC. ENGINEERING

DAYBAR INDUSTRIES LTD

NO. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE 6 SINGLE SERIES ULTIMATE COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "A" 16 GAUGE GALVANNEAL OR STAINLESS STEEL FRAMES, ENDS & GLASS ATTACHMENTS - U.S.A.

DIN 85297/101

LICENSE NO. 41126

© 2017 TILED INC. ENGINEERING

DAYBAR INDUSTRIES LTD

NO. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE 6 SINGLE SERIES ULTIMATE COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "A" 16 GAUGE GALVANNEAL OR STAINLESS STEEL FRAMES, ENDS & GLASS ATTACHMENTS - U.S.A.

DIN 85297/101

LICENSE NO. 41126

© 2017 TILED INC. ENGINEERING

DAYBAR INDUSTRIES LTD

NO. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE 6 SINGLE SERIES ULTIMATE COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "A" 16 GAUGE GALVANNEAL OR STAINLESS STEEL FRAMES, ENDS & GLASS ATTACHMENTS - U.S.A.

DIN 85297/101

LICENSE NO. 41126

© 2017 TILED INC. ENGINEERING

DAYBAR INDUSTRIES LTD

NO. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE 6 SINGLE SERIES ULTIMATE COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "A" 16 GAUGE GALVANNEAL OR STAINLESS STEEL FRAMES, ENDS & GLASS ATTACHMENTS - U.S.A.

DIN 85297/101

LICENSE NO. 41126

© 2017 TILED INC. ENGINEERING

DAYBAR INDUSTRIES LTD

NO. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE 6 SINGLE SERIES ULTIMATE COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "A" 16 GAUGE GALVANNEAL OR STAINLESS STEEL FRAMES, ENDS & GLASS ATTACHMENTS - U.S.A.

DIN 85297/101

LICENSE NO. 41126

© 2017 TILED INC. ENGINEERING

DAYBAR INDUSTRIES LTD

NO. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE 6 SINGLE SERIES ULTIMATE COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "A" 16 GAUGE GALVANNEAL OR STAINLESS STEEL FRAMES, ENDS & GLASS ATTACHMENTS - U.S.A.

DIN 85297/101

LICENSE NO. 41126

© 2017 TILED INC. ENGINEERING

DAYBAR INDUSTRIES LTD

NO. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE 6 SINGLE SERIES ULTIMATE COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "A" 16 GAUGE GALVANNEAL OR STAINLESS STEEL FRAMES, ENDS & GLASS ATTACHMENTS - U.S.A.
27. **Z** ASTRAGAL ISOMETRIC DETAIL

- 12 GA GALLVANEAL STEEL OR STAINLESS STEEL
- ASA 1299 STRIKE REINFORCEMENT FOR ASTRAGAL

**Material:**
- 0.075" THICK
- GALLVANEAL STEEL OR STAINLESS STEEL

**Details:**
- 1-1/8" X 2-3/4" DEAD BOLT STRIKE
- 4-7/8" STRIKE
- 1/16" X 3/8" GASGNET NO. 109
- 1/8" IN 2" BEVEL
- BOTH DOOR EDGES 1/8" TO 2" BEVEL
- MATERIAL: MATERIAL SEE BILL OF MATERIAL
- MATERIAL LOCKSEAM FILLED WITH HELMIPRENE # C8383-1 ADHESIVE - SEALANT
- SECTION THRU ASTRAGAL AT DOUBLE DOOR

**Typical Cross Section Thru Door:**
- 12 GA GALLVANEAL OR STAINLESS STEEL ASA STRIKE REINFORCEMENT
- 3X1/8" PROJECTION WELD EACH SIDE
21 8" #275D HAGER SURFACE BOLT

SURFACE BOLT INSTALLATION
AT DOOR W/ ASTRAGAL (INTERIOR VIEW)

NOTE:
SURFACE BOLT
MANUFACTURER: HAGER
MODEL: #275D
MATERIAL: STEEL
FINISH: US6D

TYPICAL SURFACE BOLT ENGAGEMENT
DETAIL AT HEAD & STILE

TYPICAL SECTION

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

TILE CO INC.

DAYBAR INDUSTRIES LTD

FLORIDA LIC # 17-096
DETAIL A
SNAP IN CHANNEL

CHANNEL

DETAIL B

ASSEMBLY (ISOMETRIC)
(SNAP IN CHANNEL WITH TOP CAP)

TOP CAP

EXACT 35.750’ FOR 36’ DOOR WIDTH
EXACT 47.750’ FOR 48’ DOOR WIDTH
(VARIES WITH DOOR WIDTH)

STANDARD TOP CAP

35.750’ TOP PLATE FOR 36’ DOOR WIDTH
47.750’ TOP PLATE FOR 48’ DOOR WIDTH
(VARIES WITH DOOR WIDTH)

34.125’ SNAP IN CHANNEL
FOR 36’ DOOR WIDTH

46.125’ SNAP IN CHANNEL
FOR 48’ DOOR WIDTH

TOP CAP

CHANNEL

VIEW B

CHANNEL AND CAP PLATE
ARE RESISTANCE SPOT WELDED
ON COMMON CENTER LINE.
(4 - 5 PLACES)

SHAPED

DOOR SNAP IN TOP CAP DETAIL

28

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

TILECO, INC.

DAYBAR INDUSTRIES LTD

FLORIDA No. 44167

STATE OF FLORIDA

LICENSED PROFESSIONAL ENGINEER

DRAWN BY:

17-086

DATE:
07/21/17

DOUBLE & SINGLE SERIES LSD OUTSWING COMMERCIAL
GALVANIZED OR STAINLESS STEEL, DOOR N/S SERIES "ACT"
10 SIZES, GALVANIZED OR STAINLESS STEEL FRAME
FLUSH, ENBURST & GLAZED ASSEMBLIES - L.M.

No.

DESCRIPTION

1

332

SHAPED
DOOR EDGE MOUNTING TAB
14 GA (0.074) MIN GALVANNEAL STEEL OR STAINLESS STEEL

GAGE 14 (0.074) MINIMUM
RP REINFORCING SAME AS #86,
LESS LOCK CLIP & MOUNTING
TABS, GLUE W/CONTACT
ADHESIVE TO DOOR FACE

LOCK CLIP-18GA (0.045)
MIN. ONLY VALID FOR
ASSEMBLY WHERE
APPLICABLE

ELEVATION

PLAN

MATERIAL:
ALL GALVANNEAL STEEL OR
STAINLESS STEEL

23 ANSI #A15.1 #86 MORTISE
LOCK 12 REINFORCING

VIEW X

3D VIEW

17 4 1/2" HINGE BAR
REINFORCING FOR DOOR

MATERIAL:
14 GAUGE (0.074) MINIMUM
GALVANNEAL STEEL OR STAINLESS
STEEL, GLUED TO DOOR AT HEAD &
SILL USING HEMILION 8320-1
CONTACT ADHESIVE

18 DOOR SURFACE
BOLT REINFORCING

DETAIL

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

TILECO INC.

DAYBAR INDUSTRIES LTD

DOUBLE & SINGLE SERIES LITE OUTSWING COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR W/SERIES "A"
18 GAUGE GALVANNEAL OR STAINLESS STEEL FRAME
FLUSH, ENGRAVED & GLAZED ASSEMBLIES - L.W.

DRAWN BY: L.C.

DATE: 05/17

SHEET 13 OF 19
#161 EDGE REINFORCING
MAT: 0.078 SATINCOAT STEEL OR STAINLESS STEEL

(4) 1/16"Ø PROJECTION WELDS

SECTION THROUGH EDGE REINFORCING

#161 CYLINDRICAL LOCK AND DEAD BOLT REINFORCEMENT DETAIL

BARREL SUPPORT
MAT: 0.035 SATIN COAT STEEL OR STAINLESS STEEL

REINFORCING LOOP
MAT: 0.035 SATIN COAT STEEL OR STAINLESS STEEL

VIEW X

TO SUIT 8/32UNC THREAD

#161 EDGE REINFORCING
MAT: 0.035 SATIN COAT STEEL OR STAINLESS STEEL
**BILL OF MATERIALS:**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1</td>
<td>3/4&quot; 6 GAUGE UNDER HEAD FRAME SERIES 414S</td>
<td>STEEL</td>
<td>16 GAUGE 6-1/4 DEPTH X 0.108&quot; THICK STAINLESS STEEL</td>
</tr>
<tr>
<td>1 1</td>
<td>3/4&quot; 6 GAUGE UNDER HEAD FRAME SERIES 414S</td>
<td>STEEL</td>
<td>16 GAUGE 6-1/4 DEPTH X 0.108&quot; THICK STAINLESS STEEL</td>
</tr>
<tr>
<td>1 1</td>
<td>3/4&quot; 6 GAUGE UNDER HEAD FRAME SERIES 414S</td>
<td>STEEL</td>
<td>16 GAUGE 6-1/4 DEPTH X 0.108&quot; THICK STAINLESS STEEL</td>
</tr>
<tr>
<td>1 1</td>
<td>3/4&quot; 6 GAUGE UNDER HEAD FRAME SERIES 414S</td>
<td>STEEL</td>
<td>16 GAUGE 6-1/4 DEPTH X 0.108&quot; THICK STAINLESS STEEL</td>
</tr>
<tr>
<td>1 1</td>
<td>3/4&quot; 6 GAUGE UNDER HEAD FRAME SERIES 414S</td>
<td>STEEL</td>
<td>16 GAUGE 6-1/4 DEPTH X 0.108&quot; THICK STAINLESS STEEL</td>
</tr>
<tr>
<td>1 1</td>
<td>3/4&quot; 6 GAUGE UNDER HEAD FRAME SERIES 414S</td>
<td>STEEL</td>
<td>16 GAUGE 6-1/4 DEPTH X 0.108&quot; THICK STAINLESS STEEL</td>
</tr>
<tr>
<td>1 1</td>
<td>3/4&quot; 6 GAUGE UNDER HEAD FRAME SERIES 414S</td>
<td>STEEL</td>
<td>16 GAUGE 6-1/4 DEPTH X 0.108&quot; THICK STAINLESS STEEL</td>
</tr>
<tr>
<td>1 1</td>
<td>3/4&quot; 6 GAUGE UNDER HEAD FRAME SERIES 414S</td>
<td>STEEL</td>
<td>16 GAUGE 6-1/4 DEPTH X 0.108&quot; THICK STAINLESS STEEL</td>
</tr>
<tr>
<td>1 1</td>
<td>3/4&quot; 6 GAUGE UNDER HEAD FRAME SERIES 414S</td>
<td>STEEL</td>
<td>16 GAUGE 6-1/4 DEPTH X 0.108&quot; THICK STAINLESS STEEL</td>
</tr>
<tr>
<td>1 1</td>
<td>3/4&quot; 6 GAUGE UNDER HEAD FRAME SERIES 414S</td>
<td>STEEL</td>
<td>16 GAUGE 6-1/4 DEPTH X 0.108&quot; THICK STAINLESS STEEL</td>
</tr>
</tbody>
</table>

* **AISI 304 SERIES STAINLESS STEEL WITH Fy = 45.75 KSI AND Fu = 101.38 KSI**