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-20GA” Outswing Single Commercial Steel (Galvannealed or Stainless) Doors w/ 18ga Frames & w/wo Rim Panic Exit Device-LM Impact

APPROVAL DOCUMENT: Drawing No 17-083 (Former 15-261), titled “Single LS20GA Flush Commercial Steel outswing Door w/ 18 ga Steel frames”, sheets 1 through thru 14 of 14 prepared by Tilteco Inc, dated 07/20/17, 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. See Jambs anchor OC spacing for case 1 or 2 in sheet 3 and installation details on sheet 13 for each case.
2. Min required Steel tensile yield=45 ksi and tensile ultimate Fu= 50.5 ksi and for Stainless Steel tensile yield=54.5 ksi and tensile ultimate Fu= 94.4 ksi for doors and/or frames.

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 # 16-1018.06 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.
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous approvals

A. DRAWINGS
   1. Manufacturer's parts and sections drawings (see below).
   2. Drawing No 15-261, titled “Single LS20GA Flush Commercial Steel outswing Door w/ 18 ga Steel frames”, sheets 1 through thru 14 of 14 prepared by Tiltco Inc, dated 12/20/16, signed and sealed by Walter A. Tillit Jr., P. E.

B. TESTS (submitted under file #16-1018.06)
   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 Resistant Test, per FBC, TAS 202-94
      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 Single outswing steel doors, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL8974 dated 10/03/16, signed and sealed by Idamis Ortega, P.E.
   (Note: This test report has been revised by an addendum dated 12/17/16 has been issued by test lab)

C. CALCULATIONS
   1. Anchor Verification Calculations, complying w/ FBC-2014, dated 10-10-16, prepared by Tiltco, Inc., signed and sealed by Walter A. Tillit Jr., P. E.

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

E. MATERIAL CERTIFICATIONS
   1. Tensile Test per ASTM370-14, test report No. FTL 9135, dated 08/16/16, issued by Fenestration Testing Laboratory, signed and sealed by Idamis Ortega, P.E.
   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.

F. STATEMENTS
   1. Statement letter of compliance to FBC-2014 and “No financial interest”, dated 10/11/16, issued by Tiltco Inc., signed and sealed by Walter A. Tillit Jr., P. E.

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 17-0928.09
Expiration Date: January 19, 2022
Approval Date: November 22, 2017
Daybar Industries Limited

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHER
1. Test proposal#15-2115 approved by RER dated 01/20/16.
2. Manufacturer/Distributor agreement dated 09/21/16 between Daybar Industries Limited, Canada and Daybar Southeast Manufacturing, N. Key Largo, USA, signed by Mark Dodson and David Ball, respective officials of the companies.

2. New Evidence submitted

A. DRAWINGS
1. Drawing No 17-083 (Former 15-261), titled “Single LS20GA Flush Commercial Steel outswing Door w/ 18 ga Steel frames”, sheets 1 through thru 14 of 14 prepared by Tilteco Inc, dated 07/20/17, 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 07/20/17, signed & sealed by Walter A. Tillit Jr., P. E.

G. OTHER
1. This NOA revises NOA # 16-1018.06, expiring 01/19/22.

Ishiq I. Chanda
Product Control Examiner
NOA No. 17-0928.09
Expiration Date: January 19, 2022
Approval Date: November 22, 2017

E - 2
GENERAL NOTES AND SPECIFICATIONS:

1. SERIES LS250A FLUSH COMMERCIAL STEEL OUTSWING DOOR SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN VERIFIED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE 2017 (6th EDITION) OF THE FLORIDA BUILDING CODE. DOOR MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES.

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE, USING ASCE 7-10 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEET 2.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-10 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ (MAX.) A.S.D. DESIGN PRESSURE RATINGS INDICATED ON SHEET 2.

THIS DOOR’S ADEQUACY FOR WIND AND IMPACT LOAD HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203 AS PER PENETRACTION TESTING LABORATORY, INC. REPORT # 8974. AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTION 1616 OF THE FLORIDA BUILDING CODE.

2. ALL COMPONENTS SHALL BE AS SPECIFIED ON APPROPRIATE DETAIL SHEETS AND AT BILL OF MATERIALS (SHEET 5) OF THIS DRAWING.

3. COMPLIANCE OF EGRESS / ESCAPE REQUIREMENTS OF THESE DOORS PER FLORIDA BUILDING CODE TO BE DETERMINED BY BUILDING OFFICIALS ON A CASE-BY-CASE BASIS.

4. ALL SCREWDS USED FOR ASSEMBLY CONNECTIONS (METAL TO METAL) TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 WITH 50 ksi YIELD POINT AND 90 ksi TENSILE STRENGTH & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4.

5. ALL WELDING TO CONFORM W/AERICAN WELDING SOCIETY A.W.S. D.1.3 AND D-19.0 REGULATIONS W/E60XX ELECTRODES, FOR GALVANIZED SHEET METAL, AND W/AERICAN WELDING SOCIETY A.W.S. D.1.6 REGULATIONS W/ E-308 ELECTRODES (FU=80ksi.) FOR STAINLESS STEEL MATERIAL

6. ALL ANCHORS FOR DOOR FRAME CONNECTIONS TO EXISTING STRUCTURE SHALL BE AS SPECIFIED ON SHEET 13 OF THIS DRAWING. MAXIMUM ANCHORS SPACINGS SHALL BE AS PER ELEVATIONS ON SHEET 3 OF THIS DRAWING.

7. PROVIDE MAX. LOAD BEARING SHIM SPACE AS INDICATED ON SHEET 13.

8. THIS DOOR WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.

9. THESE DOOR ASSEMBLIES ARE APPROVED FOR WATER AND AIR INFILTRATION AS PER TESTING INDICATED ON GENERAL NOTE 1, AND SHALL BE LIMITED TO DESIGN PRESSURE RATINGS INDICATED ON SHEET 2.

10. PROVIDE SPECIFIED SEALANT AT ALL DOOR FRAME & THRESHOLD COMPONENTS INDICATED ON THIS DRAWING.

11. ALL EXISTING WALLS (STRUCTURE) WHERE DOOR IS TO BE INSTALLED MUST BE BUILT IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND SHALL BE DESIGNED TO SUSTAIN THE SUPERIMPOSED LOADS TRANSFERRED BY THE DOOR SYSTEM.

12. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO SUSTAIN THE SUPERIMPOSED LOADS TRANSFERRED BY THESE DOORS.

13. THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) PREPARED BY THIS ENGINEER IS GENERAL AND NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. WHERE THE SITE CONDITIONS DEPART FROM THE P.A.D.

(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.A.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR’S RESPONSIBILITY.

c) THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

d) ORIGINAL P.A.D. SHALL BEAR THE DATE, SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

14. PRODUCT MANUFACTURER’S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1709.5 OF THE FLORIDA BUILDING CODE.

ONE LABEL SHALL BE PLACED FOR EVERY OPENING.

15. EXPANDED POLYSTYRENE CORE SHALL BE RIGID BOARD TYPE 1 PCF CONFORMING TO ASTM C578 BY DYNAST PRODUCTS, LLC. W/ CURRENT MIAMI DADE COUNTY PRODUCT CONTROL APPROVAL (NDA).

SHEETS CONTENT:

<table>
<thead>
<tr>
<th>SHEET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td>INDEX, COVER SHEET &amp; GENERAL NOTES</td>
</tr>
<tr>
<td>#2</td>
<td>ASSEMBLY ELEVATIONS</td>
</tr>
<tr>
<td>#3</td>
<td>ANCHOR ELEVATIONS</td>
</tr>
<tr>
<td>#4</td>
<td>OPTIONAL EMBOSSED DOOR SLAB.</td>
</tr>
<tr>
<td>#5</td>
<td>BILL OF MATERIALS</td>
</tr>
<tr>
<td>#6-#8</td>
<td>COMPONENTS</td>
</tr>
<tr>
<td>#9</td>
<td>VERTICAL SECTIONS</td>
</tr>
<tr>
<td>#10-12</td>
<td>HORIZONTAL SECTIONS AT HARDWARE</td>
</tr>
<tr>
<td>#13</td>
<td>ANCHOR SECTIONS</td>
</tr>
<tr>
<td>#14</td>
<td>DOOR SURFACE CLOSER REINFORCEMENT AND END CHANNEL ASSEMBLY DETAIL + CORNER DETAILS</td>
</tr>
</tbody>
</table>

THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA
OPTIONAL EMBOSSED DOOR ELEVATIONS
## BILL OF MATERIALS OUTSWING DOOR:

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>BASIC DIMENSIONS, MATERIAL OR ADDITIONAL DETAILS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 1A</td>
<td>18 GAUGE WELDED FRAME</td>
<td>AS S 3/4&quot; JAMB DEPTH X 2&quot; FACE X 045&quot; MIN GALVANNEAL FOR 1 (Fu=52ksi, Fy=45ksi) OR STAINLESS STEEL (Fu=94.9 Ksi, Fy=54.5 Kisi) FOR 1A, OF SAME DIMENSIONS</td>
</tr>
<tr>
<td>2</td>
<td>20 GAUGE FLUSH DOOR COMMERCIAL STEEL</td>
<td>3/4&quot; THICK X 032&quot; MIN GALVANNEAL (Cu=60ksi, Fy=45ksi) C/W PAPER HONEY COMB OR NDA APPROVED STYRENE CORE</td>
</tr>
<tr>
<td>3</td>
<td>HINGE REINFORCEMENTS (DOOR)</td>
<td>1 1/4&quot; X 10&quot; X 10 GAUGE GALVANNEAL (134 MIN)</td>
</tr>
<tr>
<td>4</td>
<td>HINGE REINFORCEMENTS (FRAME)</td>
<td>1 1/2&quot; X 8 3/4&quot; X 10 GAUGE GALVANNEAL (134 MIN)</td>
</tr>
<tr>
<td>5</td>
<td>STRIKE REINFORCEMENTS (FRAME)</td>
<td>3/8&quot; X 7 5/16&quot; X 14 GAUGE GALVANNEAL (072 MIN)</td>
</tr>
<tr>
<td>6</td>
<td>WIRE MASONRY FRAME ANCHOR</td>
<td>9 1/2&quot; LONG X 10 GAUGE (134 MIN) Fu=95.9 Ksi Fy=40.2 Kisi</td>
</tr>
<tr>
<td>7</td>
<td>2 PIECE SNAP-IN STUD ANCHOR</td>
<td>1 D/16&quot; X 4 1/8&quot; X 20 GAUGE GALVANNEAL (032 MIN), SNAP TO ACHIEVE 5 5/8&quot; TOTAL DEPTH</td>
</tr>
<tr>
<td>8</td>
<td>EMA ANCHOR BOLTS</td>
<td>3/8&quot; X 5&quot; STEEL UNCAN-SLEEVE ANCHOR, 2 1/4&quot; EMB EMBED &amp; 3&quot; MIN E.B.</td>
</tr>
<tr>
<td>8A</td>
<td>EMA BUTTERFLY ANCHOR (PART #PTI-008)</td>
<td>10 GAUGE (0.042&quot;) STEEL SATIN COT</td>
</tr>
<tr>
<td>9</td>
<td>LAG SCREW</td>
<td>3/8&quot;X6&quot; LAG SCREW</td>
</tr>
<tr>
<td>10</td>
<td>HINGES-HAGER BB191</td>
<td>4.5&quot; X 4.5&quot; STANDARD WEIGHT (134 THICK)</td>
</tr>
<tr>
<td>11</td>
<td>RIM EXIT, VDN SUPRIM 98/99 SERIES</td>
<td>N/A</td>
</tr>
<tr>
<td>12</td>
<td>MORTISE DEVIOL: SCHLAGE L9000 SERIES</td>
<td>N/A</td>
</tr>
<tr>
<td>13</td>
<td>CYLINDRICAL LOCK SCHLAGE D SERIES</td>
<td>N/A</td>
</tr>
<tr>
<td>14</td>
<td>DEAD BOLTS SCHLAGE D SERIES</td>
<td>N/A</td>
</tr>
<tr>
<td>15</td>
<td>WEATHER STRIP: NATIONAL GUARD PRODUCTS #202</td>
<td>SECURED WITH DOUBLE ROW OF #6 X 1/2&quot; SMS SCREWS &amp; 1&quot; FROM EA END &amp; BALANCE &amp; 4&quot; OC.</td>
</tr>
<tr>
<td>16</td>
<td>THRESHOLD NATIONAL GUARD PRODUCTS #9520A</td>
<td>EXTRUDED ALUMINUM 6063-T6, 0.078&quot; THK, W/ NEOPRENE BOLB</td>
</tr>
<tr>
<td>17</td>
<td>CAULKING GE SILICONE II</td>
<td>N/A</td>
</tr>
<tr>
<td>18</td>
<td>DOOR END CHANNEL REINFORCEMENT</td>
<td>16 GAGE GALVANNEAL STEEL</td>
</tr>
<tr>
<td>19</td>
<td>DOOR SURFACE CLOSER REINFORCEMENT</td>
<td>16 GAGE (0.072&quot; MIN) X 3 1/2&quot; X 16.075&quot; X 16.250&quot; LSNG. GALVANNEAL.</td>
</tr>
<tr>
<td>20</td>
<td>RP REINFORCING</td>
<td>16 GAGE (0.072&quot; MIN) GALVANNEAL</td>
</tr>
<tr>
<td>21</td>
<td>RIM PANIC SURFACE BOLT REINFORCING</td>
<td>16 GAGE (0.072&quot; MIN) GALVANNEAL</td>
</tr>
<tr>
<td>22</td>
<td>#161 LOCK EDGE REINFORCING</td>
<td>16 GAGE (0.051&quot; MIN)</td>
</tr>
<tr>
<td>23</td>
<td>DEAD LOCK STRIKE TAB</td>
<td>14 GAGE (0.072&quot; MIN) GALVANNEAL, ATTACHED TO JAMB W/CD 1/8&quot; PROJECTION WELBS</td>
</tr>
<tr>
<td>24</td>
<td>THRESHOLD ANCHOR</td>
<td>1/4&quot; ULTRACONS BY ELCO CONSTRUCTION PRODUCTS, 1 3/4&quot; MIN EMB &amp; 3&quot; MIN E.D @ F=c=3ksi CONCRETE SILL</td>
</tr>
<tr>
<td>25</td>
<td>MORTISE LOCK REINFORCEMENT</td>
<td>ANSI #A151.1 W66, 0.072&quot;MIN.</td>
</tr>
<tr>
<td>26</td>
<td>Z ANCHOR</td>
<td>18 GAGE (0.042&quot;) GALVANNEAL, W/ Fy= 32ksi, Fu= 44ksi</td>
</tr>
<tr>
<td>27</td>
<td>T STRAP ANCHOR DAYBAR # PTI-008</td>
<td>18 GAGE (0.042&quot;) GALVANNEAL, W/ Fy= 32ksi, Fu= 44ksi</td>
</tr>
</tbody>
</table>
18) DOOR END CHANNEL REINFORCEMENT
MATERIAL:
18 GAUGE (0.081) MINIMUM GALVANNEAL

19) DOOR SURFACE CLOSER REINFORCING
MATERIAL:
14 GAUGE (0.072) MINIMUM GALVANNEAL

20) RP REINFORCING
MATERIAL:
CASE 14 (0.074) MINIMUM RP REINFORCING GALVANNEAL

21) RIM PANIC SURFACE BOLT REINFORCING
MATERIAL:
14 GAUGE COSTED MINIMUM GALVANNEAL, GLUED TO DOOR AT HEAD & STILL USING HEMLOCK 8320-1 CONTACT ADHESIVE.

Florida Building Code (High Velocity Hurricane Zone)

Daybar Industries Ltd
88 West Drive, Canton, OH 44710
Tel: 440-622-8800 Fax: 440-622-4204
VERTICAL SECTION AT DOOR PANEL

DOOR PANEL CONSTRUCTION

Lockseam filled with 3M 540 or Lord 7610DTM

Material:
- 0.20 gauge = 0.032 minimum galvanneal

3/4" cell paper honeycomb bonded to face sheet with contact adhesive Helmbind # 8380-1
- OR
- NOA approved styrene core bonded to face sheet with contact adhesive Jowatherm 609.30 or Duraluh UH-1077

DOOR SECTION THROUGH EDGE SEAM, DETAIL X

SECTION A1-A1, A2-A2 & A3-A3

AT DOOR PANEL/FRAME
SECTION B1-B1

INTERIOR

40.00" MAX. FRAME WIDTH

DOOR PANEL
SEE SHEET 9

EXTERIOR
ANCHORAGE DETAIL AT JAMBS

CASE 1

SECTION C

SECTION E

SECTION F

SECTION D

SECTION G

SECTION H

CASE 2

ANCHORAGE DETAIL AT JAMBS
DOOR SURFACE CLOSER REINFORCEMENT 20 AND END CHANNEL 18 ASSEMBLY DETAIL

DETAIL Z

1. DIEMITERED CORNER CONT. WELDED INSIDE FACES & AT RETURNS
2. CAULK COMPLETE INSIDE CORNER WITH GE SILICONE II

FRAME CORNER: KD 3 PIECE ASSEMBLED AND CAULKED W/7

DETAIL Y1

CORNER DETAILS Y, Y1

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)