Quality Engineered Products Co., Inc.
4506 Quality Lane
Tampa, FL 33634

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 “16GACOSD-1” Outswing 16 ga Flush Commercial Steel Doors w/wo Panic Exit Device-Impact

APPROVAL DOCUMENT: APPROVAL DOCUMENT: Drawing No. 16GACOSD-1, titled “16 GA Commercial Outswing Steel Door”, sheets 1 through 10 of 10, prepared by manufacturer, dated 05/25/04 and last revised on 04-30-19, signed and sealed by Cody Davis, 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 VS lock types Vs configurations in sheets 1, 5 and 10.
2. Double Door w/HCF 9300 Rim with 1300 removable mullion (sheet 5) is rated at +80/-65 PSF.
3. Doors are 16 ga (min .063” thk) with min CS Tensile yield strength Fy= 46.3ksi and Tensile ultimate strength Fu= 52.1ksi and SS Tensile yield strength Fy= 50.5ksi and Tensile ultimate strength Fu= 98.5ksi
4. EPS Polystyrene by Dyplast (former Apache Products), having current NOA.

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 & renews NOA # 17-1102.02 and consists of this page 1 and evidence pages E-1, E-2 & E-3, 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 (Submitted under files below)
2. Drawing No. 16GACOSD-1, titled "16 GA Commercial Outswing Steel Door", sheets 1 through 10 of
   10, prepared by manufacturer, dated 02/26/16, with Revision 4 dated 02/26/16, signed and sealed by
   Cody Davis, P.E.

B. TESTS (Submitted under file # 07-1017.09/04-0220.02)
1. Test reports on 1) Air Infiltration Test, per FBC TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202.
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

Along with marked-up drawings & installation diagram of Commercial Steel Doors w/Panic
11, 2004, signed and sealed by Ramesh Patel, P.E. (Note: This test report has been revised under
Test Report No. CTLA 1276WR, re-issued on Feb 01, 2005 by Certified Testing Laboratories,
signed and sealed by Ramesh Patel, P. E.)

Note: Additional addendum letter dated OCT 10th 2015 by Certified Testing Lab, issued to test report
CTLA 1276W-R, signed by Ramesh Patel, P.E.

2. Test reports (Transferred from file # 04-0220.02)
   1) Air Infiltration Test, per FBC TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202.
   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 and TAS 202-94

Along with marked-up drawings and installation diagram of Steel Commercial Steel Doors, prepared
by Certified Testing Laboratories Inc., Test Report No. CTLA 114W, dated December 09, 2003,
signed and sealed by Ramesh Patel, P.E.
(Note: This test report has been revised by addendum letter dated May 26, 2004 & June 30, 2005,
issued by Certified Testing Laboratories Inc.).

Along with marked-up drawings and installation diagram of Steel Commercial Doors, prepared by
Certified Testing Laboratories Inc., Test Report No. CTLA 403W, dated 07/25/00, signed and sealed by
Ramesh Patel, P. E

3. Additional test report HTL-0050-1012-97 tested per FBC, TAS 202-94, issued by Hurricane
   testing laboratories, Inc. dated 10-16-98, signed and sealed by Timothy S. Marshall, P. E.
   (Transferred from file # 04-0220.02)

C. CALCULATIONS
1. Anchor verification calculations, dated 10/20/15 and revised on 05/31/16, prepared, signed and
   sealed Cody Davis, P.E.

Ishaq I. Chanda
Product Control Unit Supervisor
NOA No. 19-0507.03
Expiration Date: January 30, 2024
Approval Date: May 16, 2019

E - 1
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

E. MATERIAL CERTIFICATIONS (Submitted under file # 07-1017.09/#04-0823.05)
2. Notice of Acceptance No. 11-0926.07 issued to Dyplastic Products, LLC (former Apache Products Co) for “EPS-Expanded Polystyrene Insulation”, expiring on 01/11/2017.

F. STATEMENTS
1. Statement letter of conformance to FBC 2014 (5th Edition) and “no financial interest”, issued, prepared, signed, sealed and dated 05/31/16 by Cody Davis, P. E.
2. Statement letter dated 05/31/16 of successor engineer adopting as his own, another engineer’s work per FAC, Rule Chapter 61G15-27, issued by Master Consulting Engineers, Inc., both signed and sealed by Cody Davis, P. E.
3. Statement letter of compliance, as a part of the above referenced test reports.

G. OTHER
1. This revises NOA # 12-0921.12, expiring January 30, 2018
2. Previous associated files with this NOA(s) are # 07-1017.09, 04-0220.02 & # 02-1011.05.
3. Test Proposal by Q. E. P. dated September 19, 2002, approved by BCCO.

2. Evidence submitted under file #17-1102.02.

A. DRAWINGS
1. Drawing No. 16GACOSD-1, titled “16 GA Commercial Outswing Steel Door”, sheets 1 through 10 of 10, prepared by manufacturer, dated 05/25/04 and last revised on 07/08/2016, signed and sealed by Cody Davis, P. E.

B. TEST
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. 17-1207.05 issued to Dyplastic Products, LLC (former Apache Products Co) for “E & R-Board Expanded Polystyrene rigid Foam Insulation”, expiring on 01/11/2022.

F. STATEMENTS
2. Statement later issued by Quality Engineered Prod., dated 02/02/18, requesting one year renewal, subjected to verification test completion per RER e-mail dated Jan 09, 2019, signed by A. Bernstein, V.P.

[Signature]
Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 19-0507.03
Expiration Date: January 30, 2024
Approval Date: May 16, 2019

E - 2
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHER
1. This NOA conditionally renews for one year #15-0422.03, expiring 01/30/19, subjected verification test (glazing/hardware), as laid out per RER e-mail dated JAN 09, 2018.

3. New Evidence submitted

A. DRAWINGS
1. Drawing No. 16GACOSD-1, titled “16 GA Commercial Outswing Steel Door”, sheets 1 through 10 of 10, prepared by manufacturer, dated 05/25/04 and last revised on 04-30-19, signed and sealed by Cody Davis, P. E.

B. TESTS
1. Test reports on
   1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202.
   2) Water Resistance Test per FBC, TAS 202-94.
   3) Large Missle Impact Test per FBC, TAS 201-94
   4) Cyclic Wind Pressure Loading per FBC, TAS 203-94

Along with marked-up drawings and installation diagram of glazed outswing Steel Commercial Steel Doors, prepared by Fenestration Testing Laboratories Inc., Test Report No. FTLA 1435, dated April 14, 2019, signed and sealed by Idalmis Ortega, P. E.

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. 17-1207.05 issued to Dyplastic Products, LLC (former Apache Products Co) for “E&R-Board Expanded Polystyrene rigid Foam Insulation”, expiring on 01/11/2022.

F. STATEMENTS (Submitted under file #17-1102.02)

G. OTHER
1. This NOA revises & renews NOA #17-1102.02, expiring 01/30/24.
2. RER e-mail test proposal dated Jan 09, 2018.

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 19-0507.03
Expiration Date: January 30, 2024
Approval Date: May 16, 2019
PDQ MORTISE LOCK MODEL MR117

DESIGN PRESSURE RATING (OUTSWING DOUBLE DOORS) w/(4) ROCKWOOL SURFACE BOLTS

WHERE WATER INFILTRATION REQUIREMENT IS NEEDED

POSITIVE: NOT APPROVED WITHOUT OVERHANG
NEGATIVE: NOT APPROVED WITHOUT OVERHANG

* UNIT SHALL BE INSTALLED AT LOCATION PROTECTED BY OVERHANG SUCH THAT
OVERHANG RATIO (DH) = OH LENGTH/OH HEIGHT IS GREATER THAN 1

SCHLANGE MORTISE LOCK MODEL L9453P

SARGENT MORTISE LOCK MODEL 8225NL

DESIGN PRESSURE RATING (OUTSWING DOUBLE DOORS) w/(2) IVES SURFACE BOLTS (INACTIVE DOOR LEAF)

WHERE WATER INFILTRATION REQUIREMENT IS NEEDED

POSITIVE: NOT APPROVED WITHOUT OVERHANG
NEGATIVE: NOT APPROVED WITHOUT OVERHANG

* UNIT SHALL BE INSTALLED AT LOCATION PROTECTED BY OVERHANG SUCH THAT
OVERHANG RATIO (DH) = OH LENGTH/OH HEIGHT IS GREATER THAN 1
VERTICAL SECTION L4

- Minimum 3000 PSI Concrete

- All voids filled w/ EPS by Dynaplast
- PEMKO 2005 AV Threshold w/ vinyl seal
- 16 GA. steel bottom channel spot weld 4" O.C.
- PEMKO 368CN door bottom sweep w/ 1/4" x 5/8" screws @ 6" O.C.
- 3/4" x 2" ITW/Tapcon @ 12" O.C. w/ 1/4" Min. embedment into Conc. (See Sheet 4 for Spacing)

- Anchor location installation into structural steel

- Anchor location installation into new concrete/masonry (grout filled block)

- PEMKO 347A top drip w/ #6 x 3/4" screws @ 6" O/C
- PEMKO 68A top weatherstrip w/ #6 x 3/4" screws @ 6" O/C
- 18 GA. steel top cap, tack weld and caulk
- 16 GA. steel channel, spot weld 4" O.C.
- 16 GA. steel closer reinforcement
- Exterior (outswing)
- Tack weld hats together top and bottom
- 20 GA. steel hat stiffener, spot weld 5" O.C.

- 20 or 21
- See design pressure table on sheet 1

- 20 or 21
- See design pressure table on sheet 1

- Grouted CMU - strength conformance to ASTM C-90, Type 1 (or greater) w/ min. 3000 PSI grout

- 76" Max Unit Width

- Total (4) anchors per sill (24" Max Spacing)
- Total (6) anchors per sill (12" Max Spacing)

- Total (6) screws per jamb (14" Max Spacing)
- Total (9) anchors per sill (12" Max Spacing)

- 76" Max Unit Height

- 8" 20" 16" 20" 8"

- Florida Engineering Co., Inc.

- Drawing Number 16GACOS-D-1
- 16 GA. COMMERCIAL OUTSWING STEEL DOOR

- Revisions
- 20-01-26-16

- Hurricane test approval
- Series 16GACOS Commercial Outswing steel doors

- State of Florida
- No. 75154
- (Not valid without seal)

- Date 04-26-19
DOUBLE OUTSWING DOOR (INTERIOR VIEW) w/ DORMA'S HCF 9300 VERTICAL ROD PANIC DEVICE

SINGLE OUTSWING DOOR (INTERIOR VIEW) w/ DORMA'S HCF 9300 VERTICAL ROD PANIC DEVICE

FOR SINGLE DOOR w/ DORMA 9300 DEVICE
DESIGN PRESSURE RATING

WHERE AIR & WATER INFLATION REQUIREMENT IS NEEDED

<table>
<thead>
<tr>
<th></th>
<th>POSITIVE</th>
<th>NEGATIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCF 9300</td>
<td>+60 PSF</td>
<td>-60 PSF</td>
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</table>

FOR DORMA VERTICAL ROD DEVICES
DESIGN PRESSURE RATING

WHERE AIR & WATER INFLATION REQUIREMENT IS NEEDED

<table>
<thead>
<tr>
<th></th>
<th>POSITIVE</th>
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</thead>
<tbody>
<tr>
<td>HCF 9300</td>
<td>+60 PSF</td>
<td>-60 PSF</td>
</tr>
</tbody>
</table>

FOR DORMA RM DEVICES w/ HC1300 MULLION
DESIGN PRESSURE RATING

WHERE AIR & WATER INFLATION REQUIREMENT IS NEEDED

<table>
<thead>
<tr>
<th></th>
<th>POSITIVE</th>
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</thead>
<tbody>
<tr>
<td>HC1300</td>
<td>+65 PSF</td>
<td>-65 PSF</td>
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</tbody>
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DOUBLE OUTSWING DOOR (INTERIOR VIEW) w/ DORMA'S HCF 9300 VERTICAL ROD EXIT DEVICE & 1300 REMOVABLE MULLION w/ 410 STRIKE PLATE

SINGLE OUTSWING DOOR (INTERIOR VIEW) w/ DORMA'S HCF 9300 VERTICAL ROD EXIT DEVICE w/ 410 STRIKE PLATE

REVISED 02-28-16

DRAWS NO. 16GA-OUSD-2

DATE 04-26-19

406 QUALITY LANE
TAMPA, FLORIDA 33614
380-890-0101

QUALITY ENGINEERED PRODUCTS CO., INC.
<table>
<thead>
<tr>
<th>ITEM #</th>
<th>QUANTITY</th>
<th>BILL OF MATERIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>16 GA. (.063&quot;) MIN. (14 GA. MAX.) STEEL HOLLOW METAL FRAME Fymin = 46.3 KSI; Fumax = 52.1 KSI (or S.S. MEETING Fymin = 50.5 KSI; Fumax = 98.5 KSI)</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>16 GA. (.063&quot;) MIN. (14 GA. MAX.) GLAZED STEEL STORE Fymin = 46.3 KSI; Fumax = 52.1 KSI (or S.S. MEETING Fymin = 50.5 KSI; Fumax = 98.5 KSI)</td>
</tr>
<tr>
<td>3</td>
<td>8</td>
<td>HAGAR HINGES BB1279 4 1/2&quot; x 4 1/2&quot; x 0.134&quot; THICK</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>PEMKO 2005AV THRESHOLD</td>
</tr>
<tr>
<td>5</td>
<td>15</td>
<td>3/8 DYNABOLT ITW/REDHEAD SLEEVE ANCHOR (3/8 BOLT) x 5&quot; SLEEVE ANCHOR w/ 3/8 EMT WELDED PIPE SLEEVE w/ 2-1/2&quot; MIN. EMBEDMENT &amp; 3&quot; MIN. EDGE DISTANCE INTO 3 KSI CONCRETE OR GIRDER FILLED BLOCK</td>
</tr>
<tr>
<td>6</td>
<td>20</td>
<td>5/8 x 6&quot; WOOD LAG SCREWS w/ 3/4&quot; EMT PIPE SLEEVE</td>
</tr>
<tr>
<td>7</td>
<td>2</td>
<td>DORMA EXIT DEVICE HCF8400 VERTICAL ROD EXIT DEVICE w/ STRIKEPLATES TOP AND BOTTOM</td>
</tr>
<tr>
<td>8</td>
<td>2</td>
<td>DORMA EXIT DEVICE HCF8300 RIM EXIT DEVICE w/ STRIKE PLATES (416)</td>
</tr>
<tr>
<td>9</td>
<td>1</td>
<td>PDQ MORTISE LOCK MR117</td>
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<tr>
<td>10</td>
<td>1</td>
<td>PEMKO 68A DOOR TOP WEATHERSTRIP w/ #6 x 3/4&quot; SCREWS</td>
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<tr>
<td>11</td>
<td>AS REQ.</td>
<td>NATIONAL GAURO #330SA WEATHERSTRIP w/ 3/4&quot; SCREWS</td>
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<tr>
<td>12</td>
<td>1</td>
<td>PEMKO 347A TOP DROP</td>
</tr>
<tr>
<td>13</td>
<td>8</td>
<td>7 GA. STEEL DOOR HINGE REINFORCEMENT</td>
</tr>
</tbody>
</table>

**Notes:**
- 16 GA. COMMERCIAL OUTSANDING STEEL DOOR
- QUALITY LANE 0859A002 0856A003 0856K004 0856A005 0856A006
- DRAWING NUMBER 16GAC0SD-1
- QUALITY ENGINEERED PRODUCTS CO., INC.
- SHEET 6 OF 10
- DATE 04-25-19

**Bill of Materials:**
- 14 | 8 | 7 GA. STEEL FRAME HINGE REINFORCEMENT
- 15 | AS REQ. | EXPANDED POLYSTYRENE (EPS) BY DYPLAST w/ CURRENT NOA PRODUCTS OR 20 GA. STEEL RIB OR HONEYCOMB
- 16 | 4 | 16 GA. STEEL TOP AND BOTTOM "I" CHANNEL
- 17 | 2 | 12 GA. STEEL 1.5" x 4.5" x FULL LENGTH LOCK REINFORCEMENT
- 18 | AS REQ. | 20 GA. STEEL HAT STIFFENERS
- 19 | 1 | VINYL GASKETING (THRESHOLD)
- 20 | 1 | ROCKWOOD 580 SURFACE BOLTS
- 21 | 1 | IVES 360 SURFACE BOLTS
- 22 | 1 | SCHLAGE MORTISE LOCK MODEL 9453F, SARGENT MORTISE LOCK MODEL B225NL (70 PSF ONLY)
- 23 | 1 | DORMA HC1300 REMOVABLE MULLION (DOUBLE DOORS)
16 GA. STEEL BOTTOM CHANNEL SPOT WELD 4" O.C. PEMKO #2005AV ALUM. THRESHOLD

MINIMUM 3000 PSI CONCRETE

EXTERIOR

(2) ¾" ITW RAMSET/RED HEAD SELF DRILLING ANCHORS 1½" MIN. EMBED. INTO 3000 PSI MIN. CONCRETE

DORMA HC-1300 REMOVABLE MULLION

DORMA HC-1300 MULLION

(4) ¾"-18 FH PMS DRILL & TAPPED TO FRAME

(2) ¾" ITW/TAPCON Ø 1/2" O/C w/ 1½" MIN. EMBEMENT

ALT T ANCHOR ATTACHMENT

t = 0.0598" (16 GA.) MIN. Fy = 30 KSI

6"x2"x1/4" STEEL PLATE

1' 1/8"

1' 2/3"
**Note:** Structure member at the head must be designed to carry a pullout load and must be approved by the building official.