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 "QQ2" 16 ga. Outswing Glazed Commercial Steel Door w/Panic Device & Mortise Lock - LMI

**APPROVAL DOCUMENT:** Drawing No. QQ2 REV 4, titled "16 ga Out swinging Glazed Commercial Steel Door", sheets 1 through 13 of 13, prepared by manufacturer, dated 02/26/16 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 (DP) VS lock types in sheet 1 thru 7. Max Single Door=+/- 90 PSF.
2. See anchor VS Door height VS DP in sheet 12.
3. Double Door w/HCF 9300 Rim with HC1300 removable mullion (sheet 7) is rated at +80/-65 PSF.
4. Doors are 16 ga (min .063" thk) with min CS Tensile yield strength Fy= 46.3 ksi and Tensile ultimate strength Fu= 52.1 ksi and SS Tensile yield strength Fy= 50.5 ksi and Tensile ultimate strength Fu= 98.5 KSI.
5. 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 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 # 17-1102.03** 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. QQ2, titled “16 ga Out swinging Glazed Commercial Steel Door”, sheets 1 through 13 of 13, 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 #12-1115.06/#07-1017.10/04-0823.04)
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 devices, prepared by Certified Testing Laboratories Inc., Test Report No. CTLA 1276W, dated Nov. 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.)

2. Test reports
   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 Single Commercial Steel Doors, prepared by Certified Testing Lab Inc., Test Report No. CTLA 1238W, dated 08/13/04, signed and sealed by Ramesh Patel, P.E.

Along with marked-up drawings and installation diagram of Single Commercial Steel Doors, prepared by Certified Testing Lab Inc., Test Report No. CTLA 1238WR, dated 08/25/04 and revised on 02/25/05, signed and sealed by Ramesh Patel, P.E.

3. Test report on
   1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202.
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

Along with marked-up drawings and installation diagram of Commercial Steel Doors w/panic Devices, prepared by Certified Testing Lab Inc., Test Report No. Test Report No. CTLA 976WA-2R, dated 07/12/04, and revised on 02/25/05 signed and sealed by Ramesh Patel, P.E.

4. Additional Test reports HTL-0050-4007-96 and HTL-0050-0104-96 tested per SFBC PA 201, 202 & 203-94, issued by Hurricane Testing lab, dated 04-17-96 and 01/15/96 both signed and sealed by Timothy S. Marshall, P.E. (submitted under files 00-0726.01/03-0708.02)

C. CALCULATIONS
1. Anchor verification calculations complying w/ FBC 2014 (5th Edition), dated 07/11/16,
   prepared, signed and sealed by Cody Davis, P.E.
2. Glazing complies w/ASTME-1300-02, -04.
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

E. MATERIAL CERTIFICATIONS (Submitted under file # 07-1017.10/#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.
   3. Notice of Acceptance No. 15-1201.11 issued to Eastman chemical Company (Former Solutia, Inc.) for their “Saflex clear & color Interlayer”, expiring on 05/21/2021.
   4. Notice of Acceptance No.14-0423.11 issued to Oldcastle Building Envelope, Inc. N.J.(Former Oldcastle, Inc.) for their “StormGlass Glass Interlayer”, expiring on 12/11/2018

F. STATEMENTS
   1. Statement letter of conformance, complying with FBC-2014 (5th edition), issued, prepared, signed, sealed and dated 07/11/16 by Cody Davis, P. E.
   2. Statement letter dated 07/29/16 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 renews NOA # 13-0606.04, expiring 07/11/18.
   2. Previous associated files with this NOA(s) are # 07-1017.10, 04-0823.05 & # 02-1011.05.
   3. Test Proposal by Q. E. P. dated September 19, 2002, approved by BCCO.

2. Evidence submitted under file #17-1102.03.

A. DRAWINGS
   1. Drawing No. QQ2 REV 4, titled “16 ga Out swinging Glazed Commercial Steel Door”, sheets 1 through 13 of 13, prepared by manufacturer, dated 02/26/16 and last revised on 02/26/16, 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.

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 19-0507.04
Expiration Date: January 30, 2024
Approval Date: May 16, 2019
Quality Engineered Products Co, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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.

G. OTHER
1. This NOA conditionally renews for one year # 15-0422.04, expiring 01/30/19, subjected to verification test (glazing/hardware), as laid out per RER e-mail dated JAN 09, 2018.

3. New Evidence submitted

A. DRAWINGS
1. Drawing No. QQ2 REV 4, titled “16 ga Out swinging Glazed Commercial Steel Door”, sheets 1 through 13 of 13, prepared by manufacturer, dated 02/26/16 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 Missile 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.
2. Notice of Acceptance No. 15-1201.11 issued to Eastman chemical Company (Former Solutia, Inc.) for their “Saflex clear & color Interlayer”, expiring on 05/21/2021.

F. STATEMENTS (Submitted under file #17-1102.03)

G. OTHER
1. This NOA revises & renews NOA #17-1102.03, 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. 19-0507.04
Expiration Date: January 30, 2024
Approval Date: May 16, 2019
GLAZED STEEL DOOR WITH DEADLOCK

- **Alt. "T" Anchor Attachment**
  - 3/8" dia. x 5" Dynabolt Sleeve anchor by ITW/Redhead into Grout filled block or 3000 psi concrete w/ 2½" min. embedment

- **Alt. Attachment at Head**
  - 3/8" dia. x 5" Dynabolt Sleeve anchor by ITW/Redhead into Grout filled block or 3000 psi concrete w/ 2½" min. embedment

- **3/16" x 2" Tapcon Set at 12" O.C.**
  - Embed into Concrete w/ 1-1/4" min. penetration

- **Product Referred to**
  - 3/16" x 2" Tapcon Set at 12" O.C.
  - Embed into Concrete w/ 1-1/4" min. penetration

- **Design Pressure Rating**
  - 40 PSF / -50 PSF

- **Exterior**
  - PEMKO #312 CR weatherstrip w/ 4 x 5/8" machine screws set @ 6" O.C.

- **Astragal**
  - GE Ultraligaze 4000
  - Silicone Sealant Caulk

- **Silicon Sealant**
  - Active

- **Grouted CMU**
  - G=0.55 min.
  - Wood (2) 2x6-5/4" x 8" wood shim

- **Cut-Outs**
  - 3/8" dia. x 5" Dynabolt Sleeve anchor by ITW/Redhead into Grout filled block or concrete w/ 2½" min. embedment

- **Service Pressure**
  - +40 PSF / -50 PSF

- **Deadbolt**
  - Vertical Section 3" = T-0"
DETAIL NEW MASONRY ANCHORING

(SEE APPLICABLE ELEVATION FOR
NUMBER OF 'T' ANCHORS REQUIRED)

THICKNESS = 0.059" (16 GA.)
Fy = 30 KSI

1/2" DIA. x 2½" PIPE
WELDED TO BACKSIDE
OF HOLLOW METAL
FRAME

5/16" x 2-1/4" STEEL PLATE

VERTICAL SECTION

3" = 1'-0"

DORMA HC-1300
REMOVABLE MULLION

PIPE SLEEVE DETAIL
3" = 1'-0"

'T' ANCHOR DETAILS
DOOR PANEL CONSTRUCTION DETAILS

- 16 GA. OUTSWINGING GLAZED COMMERCIAL STEEL DOOR
- Vertical Door Section
- Half Size

- Edge Seam Door
- Half Size
- Latch Reinforcement
- 161 Lockbox Prep
- "2" Bar (Vertical Stiffener) 6" O.C.
- Hinge Reinforcement
- Retainer - Spot Weld @ 6" O.C.
- 16 Gauge Channel - Spot Weld 4" O.C.
- 16 Gauge Closer Reinforcement - Tack Weld to Channel
- 16 Gauge Bottom Channel - Spot Weld 4" O.C.
- All voids filled with Microlite Honeycomb, EPS by Dyplast (Styrofoam)

- Seamless Edge Door
- Half Size
- Latch Reinforcement
- 161 Lockbox Prep
- "2" Bar (Vertical Stiffener) 6" O.C.
- Hinge Reinforcement
- Retainer - Spot Weld @ 6" O.C.
- 1/2" Dia. Rod (Solid)
- Rockwood #555 Flushbolt
- All voids filled with Microlite Honeycomb, EPS by Dyplast (Styrofoam)

- 18 Gauge Top Cap - Tack Weld & Caulk

DATE: 04-26-19
**7'-0" Height Anchor and Spacing Table**

<table>
<thead>
<tr>
<th>Anchor</th>
<th>Substrate</th>
<th>MAX Spacing</th>
<th>JAMB</th>
<th>HEAD</th>
</tr>
</thead>
<tbody>
<tr>
<td># DYNABOLT CMU</td>
<td></td>
<td>24&quot;</td>
<td>23&quot;</td>
<td>4</td>
</tr>
<tr>
<td>&quot;T&quot; Anchor CMU</td>
<td></td>
<td>24&quot;</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>Screw Steel</td>
<td></td>
<td>20&quot;</td>
<td>20&quot;</td>
<td>5</td>
</tr>
<tr>
<td>LAG Wood</td>
<td></td>
<td>10&quot;</td>
<td>10&quot;</td>
<td>9</td>
</tr>
</tbody>
</table>

**8'-0" Height Anchor and Spacing Table**

<table>
<thead>
<tr>
<th>Anchor</th>
<th>Substrate</th>
<th>MAX Spacing</th>
<th>JAMB</th>
<th>HEAD</th>
</tr>
</thead>
<tbody>
<tr>
<td># DYNABOLT CMU</td>
<td></td>
<td>20&quot;</td>
<td>5&quot;</td>
<td>8&quot;</td>
</tr>
<tr>
<td>&quot;T&quot; Anchor CMU</td>
<td></td>
<td>24&quot;</td>
<td>5&quot;</td>
<td>8&quot;</td>
</tr>
<tr>
<td>Screw Steel</td>
<td></td>
<td>20&quot;</td>
<td>5</td>
<td>10&quot;</td>
</tr>
<tr>
<td>LAG Wood</td>
<td></td>
<td>10&quot;</td>
<td>10&quot;</td>
<td>9</td>
</tr>
</tbody>
</table>

**7'-0" Height Anchor and Spacing Table**

<table>
<thead>
<tr>
<th>Anchor</th>
<th>Substrate</th>
<th>MAX Spacing</th>
<th>JAMB</th>
<th>HEAD</th>
</tr>
</thead>
<tbody>
<tr>
<td># DYNABOLT CMU</td>
<td></td>
<td>24&quot;</td>
<td>20&quot;</td>
<td>4</td>
</tr>
<tr>
<td>&quot;T&quot; Anchor CMU</td>
<td></td>
<td>24&quot;</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>Screw Steel</td>
<td></td>
<td>20&quot;</td>
<td>20&quot;</td>
<td>5</td>
</tr>
<tr>
<td>LAG Wood</td>
<td></td>
<td>10&quot;</td>
<td>10&quot;</td>
<td>9</td>
</tr>
</tbody>
</table>

**8'-0" Height Anchor and Spacing Table**

<table>
<thead>
<tr>
<th>Anchor</th>
<th>Substrate</th>
<th>MAX Spacing</th>
<th>JAMB</th>
<th>HEAD</th>
</tr>
</thead>
<tbody>
<tr>
<td># DYNABOLT CMU</td>
<td></td>
<td>20&quot;</td>
<td>5&quot;</td>
<td>8&quot;</td>
</tr>
<tr>
<td>&quot;T&quot; Anchor CMU</td>
<td></td>
<td>24&quot;</td>
<td>5&quot;</td>
<td>8&quot;</td>
</tr>
<tr>
<td>Screw Steel</td>
<td></td>
<td>12&quot;</td>
<td>9</td>
<td>3&quot;</td>
</tr>
<tr>
<td>LAG Wood</td>
<td></td>
<td>6&quot;</td>
<td>17</td>
<td>1&quot; TOP, 3&quot; BOTTOM</td>
</tr>
</tbody>
</table>

**ANCHOR AND SPACING TABLES**

---

**DRAWING NUMBER** QQ2

**DATE** 04-26-19

**HURRICANE TEST APPROVAL**

**DRAUGHTER**

**STATE OF FLORIDA**

**NO. 75154**

**NOT VALID WITHOUT SEAL**

**ENGINEERED PRODUCTS Co., Inc.**

**504 GUARDIAN LANE**
**TAMPA, FLORIDA 33054**
**727-855-5738**

---

**SHOWING SEISMIC DESIGN B adidas With the Seismic Design Code**

**Building Code**

**Adherence to:**

**Building Code**

**CODY MAISEY, P.E.**

**FLORIDA LIC. # 75154**

**EXPIRATION DATE:** 04-26-2019