Mesker Door, LLC
3440 Stanwood Blvd.,
Huntsville, AL 35811

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: N-Series Outswing Glazed Steel Doors-LMI

APPROVAL DOCUMENT: Drawing No. AD14-18, titled “N-Series Outswing Glazed Steel Door (LMI/SMI)”, sheets 1 through 12 of 12, prepared by MYC Engineering Inc., dated 01/21/15 and last revised on MAR 06, 2017, signed and sealed by Yipping Wang, 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 sheet 1 thru 4 for Lock Hardware Options. See sheets 1 thru 5 for Anchor Bracket types and anchor types.
2. Min 13” wide Stiles and 16” min top/bottom Rails are required for installation of lite kits per sheet 4.
3. Private labelling is not part of this approval.

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 #14-1021.04 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

A. DRAWINGS
1. Manufacturer's die drawings and sections (submitted under file see below)
2. Drawing No. AD14-18, titled "N-Series Outswing Glazed Steel Door (LMI/SMI)", sheets 1 through 12 of 12, prepared by MYC Engineering Inc., dated 01/21/15 and last revised on MAR 06, 2017, signed and sealed by Yipping Wang, P.E.
Note: This revision consist of updating laminate manufacturer only.

B. TESTS (submitted under file #14-1021.04)
1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance 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, TAS 202-94
along with marked-up drawings and installation diagram of outswing Steel door w/ glazed steel lite kit assembly, prepared by Fenestration Testing Lab, Inc., Test Report No. FTL 7245, dated 08/22/14 and FTL 8120, dated 12/19/14, signed and sealed by Idalmis Ortega, P. E.
Note: Test report FTL/7245 has been revised by an addendum letter dated April 10, 2015, issued by Fenestration Testing lab, signed and sealed by Idalmis Ortega, P. E.

C. CALCULATIONS (submitted under file #14-1021.04)
1. Anchor Verification calculation complying w/ FBC 2014 (5th Edition) dated 01/12/15, 07/01/15 and last revised on JUL 07, 2015, prepared by MYC Engineering Inc., signed and sealed by Yipping Wang, P.E.

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

E. MATERIAL CERTIFICATIONS
2. Notice of Acceptance No. 13-0717.01 issued to Sabic Innovative Plasctics, Inc. for their “Lexan Polycarbonate sheet Products”, expiring on 07/17/18
3. Tensile strength test report FTL 8319 for “Kit Steel frame” per ASTM E-08, dated 04/07/15 issued by Fenestration Testing lab, signed and sealed by Idalmis Ortega, P. E.

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 17-0404.02
Expiration Date: July 16, 2020
Approval Date: May 11, 2017
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (All items except #1, submitted under file #14-1021.04)
1. Statement letter dated MAR 06, 2017 for only revision of updating the current manufacturer of the “Sentryglas interlayer”, issued by MYC Engineering Inc., signed and sealed by Yipping Wang, P.E.
3. Statement letter dated 07/08/15, issued by Mesker Holding, LLC stating Mesker Door, LLC is the subsidiary of Mesker Holding and requesting NOA to be issued under Mesker Door, LLC, signed by Aaron R Schwartz, Chief Financial Officer.
5. Lab compliance as part of the above referenced test report.

G. OTHER
1. This NOA revises #14-1021.04, expiring 07/16/20.
2. Test proposal #13-1401, dated 04/04/14 approved by RER.
3. Internet posting of Mesker Holding, LLC.
N SERIES GLAZED OUTSWING STEEL DOOR (LMI)

- This product has been designed and tested to comply with the requirements of the Florida Building Code 2010/2014 Edition including high velocity hurricane zone (HVVZ).

- Doors rated for large missile impact and do not require shutters.

- Anchors shall be as listed, spaced as shown on details, anchoring embedment to base material shall be beyond wall, dressing or stucco.

- Anchoring or loading conditions not shown in these details are not part of this approval.

- Materials including but not limited to steel/metal screws that come into contact with other dissimilar materials shall meet the requirements of 2010/2014 Florida Bldg. Code section as applicable.

- Metal structures not by Mesker Door Inc. Must support loads imposed by door system and transfer them to the building structure.

- 1x or 2x wood bucks by others must be anchored properly to transfer loads to the structure.

- A load duration factor in allowable stress is used in design of anchors into wood only.

- Door panel: Min. 16 ga. GAV Steel, Fy = 42 KSI min., Fu = 51.5 KSI min.

- Door frame: Min. 16 ga. GAV Steel, Fy = 42 KSI min., Fu = 51.5 KSI min.

- Ultimate design load obtained from ASCE-7-10, multiply by 0.8 shall be less than or equal to max. Design load in this document.

- Notes: Egress requirements to be reviewed by building official. All openings passed with water infiltration.
**TYPICAL ANCHORS @ JAMB: (REFER TO ELEVATION FOR SPACING)**

**TYPE B**
3/8" DIA. H/C SLEEVE ANCHOR BY HILTITE
DIRECTLY INTO f=6,000 PSI CONCRETE
1-3/8" MIN. EMBED, 3 3/4" MIN. EDGE DISTANCE

**TYPE B1**
3/8" DIA. H/C SLEEVE ANCHOR BY HILTITE
DIRECTLY INTO f=3,000 PSI INTO GROUT FILLED CONCRETE BLOCK
1-3/8" MIN. EMBED, 3 3/4" MIN. EDGE DISTANCE

**TYPE C**
3/8" DIA. SLEEVE ANCHOR BY POWERS
DIRECTLY INTO CONCRETE f=6,000 PSI MIN.
2 1/2" MIN. EMBED, 3 3/4" MIN. EDGE DISTANCE

**TYPE D**
3/8" DIA. WEDGE BOLT BY POWERS
DIRECTLY INTO CONCRETE f=6,000 PSI MIN.
1 1/2" MIN. EMBED, 3 3/4" MIN. EDGE DISTANCE

**TYPE D1**
3/8" DIA. WEDGE BOLT BY POWERS
DIRECTLY INTO GROUT FILLED CONCRETE BLOCK, f=3,000 PSI MIN.
1 1/2" MIN. EMBED, 3 3/4" MIN. EDGE DISTANCE

**TYPE F**
5/16" DIA. S/M OR MACHINE BOLTS (MIN. GRADE 2 CRS) OR ST/ST
INTO METAL STRUCTURES
STEEL: Fy = 36 KSI MIN. 1/4" MIN. THK.
ALUMINUM: 6063-T5, 1/4" MIN. THK.

**NOTE:**
Each type of anchor shall be used with anchor bracket type A.

**WIRE ANCHOR (REFER TO ELEVATION FOR SPACING)**
(SEE DETAIL ON SHEET 10)

**TYPE H**
WIRE ANCHOR (PF-2) (Fy = 60 KSI) MIN.
0.162 DIA. STEEL WIRE ANCHORS EMBED INTO GROUT FILLED CONCRETE BLOCK, f=1,500 PSI MIN.

**STRAP ANCHOR (REFER TO ELEVATION FOR SPACING)**
(SEE DETAIL ON SHEET 10)

**TYPE J & K**
STRAP ANCHOR (PF-2)(PF-241) (Fy=60 KSI) MIN.
INTO GROUT FILLED CONCRETE BLOCK, f=1,500 PSI MIN.

**NOTE:**
Wood or steel structural members of wood and steel stud walls must be designed to carry at least 271 Lbs/ft for doors rated @ 65 P.S.F.

**ANCHOR BRACKET: (SEE DETAILS ON SHEET 10)**

**TYPE A**
TUBE ANCHOR (PF-10)
(SEE ELEVATION ON SHEETS 1 THRU 4 FOR ANCHOR BRACKET LOCATIONS)

**TYPE B**
Z-ANCHOR (PF-5)
(SEE ELEVATION BELOW FOR ANCHOR BRACKET LOCATIONS)

**TYPE C**
WOOD STUD ANCHOR (F-24)
(SEE ELEVATION BELOW FOR ANCHOR BRACKET LOCATIONS)

**SEALANT:**
All frame joints and corners to be sealed with silicone at perimeter.

**NOTE:**
JAMB SUBSTRATE CAN BE GROUT FILLED CONCRETE, 2X WOOD BLOCKS, WOOD STRUCTURAL MEMBERS, FILLED CONCRETE BLOCK WALL AND METAL STRUCTURE (STEEL OR ALUMINUM). ANCHOR TYPE SHOWN ABOVE SHOULD BE CHOSEN BASED ON SUBSTRATE TYPE IN THE PROJECT. ANY TYPE OF ANCHOR NOT SPECIFIED HERE IS NOT PART OF THIS APPROVAL.

**SILL ANCHORS: (REFER TO ELEVATION FOR SPACING)**

**TYPE L**
1/4" DIA. ULTRACONS BY ELCO (Fy=155 KSI) F U = 177 KSI
DIRECTLY INTO f=6,000 PSI CONCRETE
1-1/2" EMBED INTO CONCRETE, 2-1/2" MIN. EDGE DISTANCE

**TYPE A**
5/16" DIA. ULTRACONS BY ELCO (Fy=155 KSI) F U = 177 KSI
DIRECTLY INTO f=6,000 PSI CONCRETE
1-3/4" EMBED INTO CONCRETE, 2-5/16" MIN. EDGE DISTANCE

**HINGE OPTION 1**
BB5 BALL BEARING HINGE

**HINGE OPTION 2**
CONTINUOUS GEARED HINGE

**PRODUCT REVIEW**
As complying with the Florida Building Code
Acceptance No. 1521124-0.01
Product Registration

**MANUFACTURER**
WAM DACE COUNTY

**MAR 06 2013**

**FLORIDA READMISSION**
P. A15683
C.A. 2686277
TYPE H ANCHOR
(SEE ELEVATIONS ON SHEET 1 FOR SPACING)

1/4" MAX.
SHIM SPACE

106" MAX. FRAME WIDTH
SEE SHEET 1, 2, 3 & 4
96" MAX. DOOR OPENING WIDTH
SEE SHEET 1, 2, 3 & 4

CONCRETE OR
CONCRETE FILLED BLOCK
GROUP MIN. 3 KSI

8-3/4" MIN.
WIRE ANCHOR EMBED

DETAILED

LOCK OPTION 1 (MORTISE LOCK W/ DEADBOLT)
LOCK OPTION 2 (CYLINDRICAL LOCK)

TYPICAL ANCHOR
SEE SHEET 5
(SEE ELEVATIONS ON SHEETS 1, 2, 3 & 4 FOR SPACING)

MIN. EMBED

DETAIL F
LOCK JAMB
SINGLE DOOR

SEAMED PANEL SIDE NOTE:
ALL OPENINGS CAN BE SEAMED OR SEAMLESS. ALL OPENINGS CAN BE SQ. EDGE OR BEVELED EDGE.

NEXUS ENGINEERING, INC.
P.O. BOX 2760, FT. MYERS, FL 33901
(239) 334-9271
www.nexus engineers.com

MEKER DOOR, LLC.
3441 SANDWICH ROAD, FORT MYERS, FL 33917
(239) 792-8727
www.mekerdoor.com

PRODUCTS REVIVED
as complying with the Florida Building Code
Acceptance Per 4-17-04
Expiration Date 4-17-07

MOSER ENGINEERING, INC.
P.O. BOX 2760, FT. MYERS, FL 33901
(239) 334-9271
www.moserengineers.com

AD14-18
7 OF 12
LOCK OPTIONS

OPTION 1  ACTIVE DOOR HARDWARE CAN APPLY TO SINGLE DOORS (EXTERIOR ELEVATIONS - OUTFRAME DOORS)

ACTIVE LEAF:
DESIGN HARDWARE M SERIES EXTRA HEAVY DUTY (GRADE 1) MORTISE LOCK WITH
(2) #8-32 X 1 1/8" FH MS
LATCH = SS 3/4" THROW. DEADBOLT = SS 1" THROW.

INACTIVE LEAF:
DESIGN HARDWARE UL-MFB-M FLUSH BOLTS WITH
(4) #8 X 3 1/4" FH MULTI THREAD SCREWS, TOP AND BOTTOM,
FLUSH MOUNT METALLIC FLUSH BOLT GUIDE WITH
(2) #8 X 3 1/4" FH THREAD SCREWS,
FLUSH MOUNT METALLIC STRIKE PLATE, WITH
(2) 1/4" X 3/8" FH MS

OPTION 2

ACTIVE LEAF:
DESIGN HARDWARE X SERIES (GRADE 1) CYLINDRICAL LOCK, WITH
(2) #8 X 3/4" FH THREAD SCREWS AND
(2) #10 X 1 9/16" FH MS.
LATCH = SS 1/2" THROW.

INACTIVE LEAF:
DESIGN HARDWARE UL-MFB-M FLUSH BOLTS,
FLUSH MOUNT METALLIC FLUSH BOLT GUIDE,
SURFACE MOUNT METALLIC STRIKE PLATE, WITH
(4) #8 X 3 3/4" FH MULTI THREAD SCREWS, TOP AND BOTTOM

OPTION 3

OPTION 3.A
ACTIVE LEAF / ACTIVE LEAF:
DESIGN HARDWARE 2000 SERIES STANDARD DUTY
SURFACE MOUNT METALLIC Rim Panic Device
WITH (6) 14 X 1 1/2" FH SDS
Rim Panic Latch At Locks = 5/8" THROW.
ROLLER STRIKE WITH 5/8" PROJECTION 1/8" SHIM.
WITH 2" X 3" X 1/8" THICK STEEL VERTICAL TUBE MULLION, Fy=36 KSI MIN.

OPTION 3.B
ACTIVE LEAF / ACTIVE LEAF:
DESIGN HARDWARE 1000 SERIES HEAVY DUTY
SURFACE MOUNT METALLIC PANIC DEVICE WITH
(5) 14 X 1 1/2" FH SDS,
ROLLER STRIKE WITH 5/8" PROJECTION 1/8" SHIM.
WITH 2" X 3" X 1/8" THICK STEEL VERTICAL TUBE MULLION, Fy=36 KSI MIN.

NOTE:
CONTINUOUS HINGE OR BBS HINGE
ACCEPTABLE ON ALL OPTIONS.
FOR PANEL HINGE OPTIONS, SEE SHEET 5.
FOR DOOR EDGE AND EDGE SEAM OPTIONS SEE SHEET 4.
<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NO.</th>
<th>MATERIAL</th>
<th>QTY.</th>
<th>DESCRIPTION</th>
<th>MANUFACTURER / SUPPLIER / REMARKS</th>
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<tbody>
<tr>
<td>1</td>
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<td>STEEL OR ST/ST</td>
<td>AS REQ'D</td>
<td>FRAME JAMB/HEAD (5 3/4&quot; X 2&quot; OR 5 3/4&quot; X 4&quot; UP TO 14 3/4&quot; DEEP)</td>
<td>MESKER DOOR 16 GA (0.060&quot; MIN.) Fy=40.8 KSI MIN.</td>
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<td>STEEL OR ST/ST</td>
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<td>JAMB</td>
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<td>BB5</td>
<td>POLYSTYRENE</td>
<td>AS REQ'D</td>
<td>STANDARD WEIGHT BALL BEARING HINGES</td>
<td>DESIGN HARDWARE</td>
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<td>POLYSTYRENE</td>
<td>AS REQ'D</td>
<td>POLYSTYRENE CORE PER CURRENT NOA</td>
<td>CELLOFOAM, BONDED TO INSIDE OF PANEL</td>
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<td>2000, 1000</td>
<td>STEEL OR ST/ST</td>
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<td>2000 RIM PANIC DEVICES 1000 SERIES OPTIONAL</td>
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<td>KEY REMOVABLE MULLION</td>
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<td>X SERIES LOCK (1/2&quot; OR 3/4&quot;)</td>
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<td>UL-MFB-M</td>
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<td>MANUAL FLUSH BOLT</td>
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<td>CONTINUOUS GEARED HINGE</td>
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<td>FRAME REINFORCEMENT</td>
<td>MESKER DOOR 16 GA (0.060&quot; MIN.) HOT MELT PUR GLUE</td>
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<td>TYPE A, PF-10</td>
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<td>TYPE H, PF-1</td>
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<td>WIRE ANCHORS</td>
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<td>TYPE J, PF-2</td>
<td>STEEL</td>
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<td>TYPE C, PF-9</td>
<td>STEEL</td>
<td>13/16&quot; X 1 3/4&quot; X .110&quot; THK. STEEL PLATE</td>
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<td>Z ANCHORS (METAL STUD)</td>
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<td>TYPE C, PF-6</td>
<td>STEEL</td>
<td>STEEL REINFORCEMENT 1 7/8&quot; X 3 3/4&quot;</td>
<td>MESKER DOOR 14 O.C.</td>
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<td>TYPE D, PF-6</td>
<td>STEEL</td>
<td>WOOD STUD ANCHORS</td>
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<td>TYPE K, PS-241</td>
<td>STEEL</td>
<td>T STRAP ANCHORS</td>
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<td>09WH</td>
<td>ALUM. 6063-T6</td>
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<td>DOOR BOTTOM EXTENDER</td>
<td>NATIONAL GUARD PRODUCTS</td>
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<td>SS-S</td>
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<td>SELF ADHESIVE WEATHERSTRIP</td>
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<td>T BUMPER THRESHOLD</td>
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<td>TPS-APA-ME-96</td>
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<td>HANDCAP 1/2&quot; BUMPER THRESHOLD</td>
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<td>PS-V</td>
<td>AS REQ'D</td>
<td>PERMETER SEAL - VINYL BULB</td>
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<td>VLFIG-HRC</td>
<td>STEEL OR ST/ST</td>
<td>LITE KIT #1</td>
<td>ACTVR CONSTRUCTION PRODUCTS GROUP INC. (AIR LOUVER INDUSTRIES), 18 GA (0.048&quot; MIN.) Fy=52.0 KSI MIN.</td>
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<td>VLFEZ-HRC</td>
<td>STEEL OR ST/ST</td>
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<td>SW-R</td>
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<td>DOOR SWEEPS</td>
<td>DESIGN HARDWARE</td>
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<td>AS REQ'D</td>
<td>WEATHER STRIP AT MEETING STILE ASTRAGAL - OPTIONAL</td>
<td>DESIGN HARDWARE</td>
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<td>STEEL OR ST/ST</td>
<td>AS REQ'D</td>
<td>0.715&quot; X 1.665&quot; X 0.715&quot; STEEL CHANNEL (DOOR PANEL WIDTH)</td>
<td>MESKER DOOR 20 GA (0.035&quot; MIN) SINGLE ROW OF SPOT WELDS 2&quot; O.C.</td>
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<td>STEEL OR ST/ST</td>
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<td>DOOR PANEL</td>
<td>MESKER DOOR 16 GA (0.045&quot; MIN) SPOT WELDED AT EACH END</td>
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<td>STEEL OR ST/ST</td>
<td>AS REQ'D</td>
<td>MORTISE LOCK REINFORCEMENT</td>
<td>MESKER DOOR 16 GA (0.060&quot; MIN.) SPOT WELDED AT EACH END</td>
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<td>MORTISE LOCK (MIN) REINFORCEMENT</td>
<td>MESKER DOOR 14 GA (0.074&quot; MIN.) SPOT WELDED AT EACH END</td>
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<td>STEEL OR ST/ST</td>
<td>AS REQ'D</td>
<td>&quot;J&quot; STRIKE MORTISE (ASA STRIKE)</td>
<td>MESKER DOOR 21 GA (0.032&quot; MIN)</td>
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<td>STEEL OR ST/ST</td>
<td>AS REQ'D</td>
<td>CYLINDRICAL LOCK PREPARATION</td>
<td>MESKER DOOR 17 GA (0.054&quot; MIN) SPOT WELDED AT EACH END</td>
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<td>37</td>
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<td>STEEL OR ST/ST</td>
<td>AS REQ'D</td>
<td>SVR TOP STRIKE</td>
<td>DESIGN HARDWARE</td>
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<td>POLYURETHANE</td>
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<td>POLYURETHANE SEAL 0.25&quot; X 0.425&quot;</td>
<td>DESIGN HARDWARE</td>
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<tr>
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<td>-</td>
<td>PLASTIC</td>
<td>AS REQ'D</td>
<td>TPS-THERMOPLASTIC SPACERS 0.3125&quot; X 0.625&quot;</td>
<td>DESIGN HARDWARE</td>
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