NOTICE OF ACCEPTANCE (NOA)

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 Opaque Steel Doors-LMI

APPROVAL DOCUMENT: Drawing No. AD14-19, titled “N-Series Outswing Opaque Steel Door (LMI/SMI)”, sheets 1 through 12 of 12, prepared by MYC Engineering Inc., Sep 05, 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. See sheet 3 for Embossed or Flush panel options.
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 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 # 14-1021.03 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 SUBMIT

G. OTHER
1. Test proposal #13-1401, dated 04/04/14 approved by RER.
2. Internet posting of Mesker Holding, LLC.

2. Evidence submitted under previous approvals

A. DRAWINGS
1. 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 Sep 05, 2017., signed and sealed by Yipping Wang, P.E.
   Note: Revision consist of FBC 2017 code update in sheet 1

B. CALCULATIONS
1. None.

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

D. MATERIAL CERTIFICATIONS
1. Notice of Acceptance No. 14-0916.11 issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for the “Sentry Glass @ Interlayer”, expiring on 07/4/18.

E. STATEMENTS
2. Statement letter dated 11/28/17 of code revision note update only and no other changes in approval drawings, prepared by MYC Engineering Inc., signed and sealed by Yipping Wang, P.E.

F. OTHER
1. This NOA revises NOA # 14-1021.04, expiring 07/16/20.

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 17-0920.08
Expiration Date: July 16, 2020
Approval Date: December 07, 2017
Mesker Door, LLC

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. AD14-19, titled "N-Series Outswing Opaque Steel Door (LMI/SMI)", sheets 1 through 12
      of 12, prepared by MYC Engineering Inc., dated 01/21/15 and last revised on JUL 01, 2015, signed and
      sealed by Yipping Wang, P.E.

B. TESTS (submitted under file # 14-1021.03)
   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
   1. Anchor Verification calculation 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
   1. Tensile strength test report FTL 8319 for "Kit Steel frame" per ASTME-08, dated 04/07/15
      issued by Fenestration Testing lab, signed and sealed by Idalmis Ortega, P. E.

F. STATEMENTS
   1. Statement letter of conformance FBC 2014 (5th Edition) and letter of no financial interest,
      dated 01/09/15, prepared by MYC Engineering Inc., signed and sealed by Yipping Wang, P.E.
   2. 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.
   3. State of Alabama Business entity details and legal name listing dated 11-07-2013, signed by
      Secretary of State.
   4. Lab compliance as part of the above referenced test report.

[Signature]
Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 17-0920.07
Expiration Date: July 16, 2020
Approval Date: December 07, 2017

E - 1
N SERIES OPAQUE OUTSWING STEEL DOOR (1-1/2 & 3-1/2)

- This product has been designed and tested to comply with the requirements of the 6th Edition Florida Building Code 2017 including high velocity hurricane zone (H/V).
- Doors rated for large and small missile impact and do not require shutters.
- All door openings passed with water infiltration.
- Anchors shall be as listed, spaced as shown on details, anchors 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 the 6th Edition 2017 Florida Building 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. 18 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 0.6 shall be less than or equal to Max. Design load in this document.

Design Loads

*Or Size required based on Building Design as permitted by Code*

- 65.0 PSF
- 65.0 PSF

Notes:
Egress requirements to be reviewed by building official. All openings passed with water infiltration.

Typical Exterior Elevation (XX)

Lock Option 1 (Mortise Lock with Deadbolt) & Lock Option 2 (Cylindrical Lock) See Sheet 9

Typical Exterior Elevation (X)

Lock Option 1 (Mortise Lock with Deadbolt) & Lock Option 2 (Cylindrical Lock) See Sheet 9

Design Loads

*Or Size required based on Building Design as permitted by Code*

- 65.0 PSF
- 65.0 PSF

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. HLC SLEEVE ANCHOR BY HILTI
DIRECTLY INTO 1/4"=3000 PSI CONCRETE
1-3/8" MIN. EMBED, 3 1/4" MIN. EDGE DISTANCE

TYPE B1
3/8" DIA. HLC SLEEVE ANCHOR BY HILTI
DIRECTLY INTO 1/2"=3000 PSI INTO GROUT FILLED CONCRETE BLOCK
1-3/8" MIN. EMBED, 3 1/2" MIN. EDGE DISTANCE

TYPE C
3/8" DIA. SLEEVE ANCHOR BY POWERS
DIRECTLY INTO CONCRETE 1/2"=3000 PSI MIN.
2 1/2" MIN. EMBED, 3 1/4" MIN. EDGE DISTANCE

TYPE D
3/8" DIA. WEDGE BOLT BY POWERS
DIRECTLY INTO CONCRETE 1/2"=3000 PSI MIN.
1 1/2" MIN. EMBED, 3 1/4" MIN. EDGE DISTANCE

TYPE D1
3/8" DIA. WEDGE BOLT BY POWERS
DIRECTLY INTO GROUT FILLED CONCRETE BLOCK 1/2"=3000 PSI MIN.
1 1/2" MIN. EMBED, 3 3/4" MIN. EDGE DISTANCE

TYPE F
5/16" DIA. SDS OR MACHINE BOLTS (MIN. GRADE 2 CRS) OR ST/ST
INTO METAL STRUCTURES, 5/8" MIN. EDGE DISTANCE
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 = 66 KSI) MIN.
0.182" DIA. STEEL WIRE ANCHORS EMBEDDED INTO GROUT FILLED CONCRETE BLOCK 1/2"=1500 PSI MIN.

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

TYPE J & K
STRAP ANCHOR (PF-2) (PS-240) (Fy = 66 KSI) MIN.
INTO GROUT FILLED CONCRETE BLOCK 1/2"=3000 PSI MIN.

NOTE:
WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 271 LB/FT FOR DOORS RATED @ 65 PSF.

ANCHOR BRACKET TYPE B & C LAYOUT

SILL ANCHORS: (REFER TO ELEVATION FOR SPACING)

TYPE L
1/4" DIA. ULTRACON BY EDCO (Fy = 155 KSI) Fc = 177 KSI
DIRECTLY INTO 1/2"=3000 PSI CONCRETE
1-1/2" MIN. EMBED INTO CONCRETE, 2-1/2" MIN. EDGE DISTANCE

TYPE A
5/16" DIA. ULTRACON BY EDCO (Fy = 155 KSI) Fc = 177 KSI
DIRECTLY INTO 1/2"=3000 PSI CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE, 2-3/8" MIN. EDGE DISTANCE

ANCHORS BRACKET:
(SEE DETAILS ON SHEET 10)

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

TYPE B
2 ANCHOR (PF-9)
(SEE ELEVATION BELOW FOR ANCHOR BRACKET LOCATION)

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

SEALANT:
ALL FRAME JOINTS AND CORNERS TO BE SEALED WITH SILICONE AT PERIMETER

NOTE:
JAMB SUBSTRATE CAN BE GROUT FILLED CONCRETE, 2X WOOD BUCK, WOOD STRUCTURAL MEMBER(S), 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.

HINGE OPTION 1
SS BALL BEARING HINGE

HINGE OPTION 2
CONTINUOUS GEARED HINGE
TYPICAL HANDICAP 1/2' BUMPER ADA THRESHOLD #TH5P-ADA-MF-96
WATER RATED THRESHOLD

TYPICAL 1" BUMPER THRESHOLD
WATER RATED THRESHOLD

NOTE: HEADS TO BE FILLED W/ 3 KSI CONCRETE
WHEN WIRE AND T-STRAP ANCHORS ARE USED

WOOD, CONCRETE, MASONRY OR METAL

HEAD DETAIL

SWITCH DETAIL

WOOD, CONCRETE, MASONRY OR METAL

HEAD DETAIL

HEAD DETAIL

SILL ANCHOR

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

TYPE A OR L
SEE SHEET 6
(SEE ELEVATIONS ON SHEETS 1, 2, 3 & 4 FOR SPACING)

TYPICAL HANDICAP 1/2' BUMPER ADA THRESHOLD #TH5P-ADA-MF-96
WATER RATED THRESHOLD
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
LATCH = 5S 3/4" THROW, DEADBOLT = 5S 1" THROW.

INACTIVE LEAF:
DESIGN HARDWARE UL-MFS-M FLUSH BOLTS WITH
(4) 8 X 3/4" FH MULTI THREAD SCREWS, TOP AND BOTTOM.
FLUSH MOUNT METALLIC FLUSH BOLT GUIDE WITH
(2) #8 X 3/4" 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) #5 X 3/4" FH THREAD SCREWS AND
(2) #10 X 3/8" FH MS.
LATCH = 5S 1/2" THROW.

INACTIVE LEAF:
DESIGN HARDWARE UL-MFS-M FLUSH BOLTS,
FLUSH MOUNT METALLIC FLUSH BOLT GUIDE,
SURFACE MOUNT METALLIC STRIKE PLATE, WITH
(4) #6 X 3/4" FH MULTI THREAD SCREWS, TOP AND BOTTOM.

OPTION 3  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 BB5 HINGE ACCEPTABLE ON ALL OPTIONS.
FOR PANEL HINGE OPTIONS, SEE SHEET 5.
FOR DOOR EDGE AND EDGE SEAM OPTIONS SEE SHEET 4.

OPTION 4

ACTIVE LEAF / ACTIVE LEAF:
DESIGN HARDWARE 2000 SERIES STANDARD DUTY SURFACE MOUNT METALLIC PANIC DEVICE
WITH DESIGN KIL TRIM,
WITH (4) 14 X 1 1/2" FH SDS, HANDLE WITH
(2) #5-36 X 1 1/2" FH MS
WITH 2" X 3" X 1/8" THICK STEEL VERTICAL TUBE MULLION, Fy=36 KSI MIN.

OPTION 4 B  ACTIVE LEAF / ACTIVE LEAF:
DESIGN HARDWARE 2000 SERIES HEAVY DUTY SURFACE MOUNT METALLIC PANIC DEVICE
WITH DESIGN KIL TRIM WITH
(5) 14 X 1 1/2" FH SDS, HANDLE WITH
(2) #8-36 X 1 1/2" FH MS
WITH 2" X 3" X 1/8" THICK STEEL VERTICAL TUBE MULLION, Fy=36 KSI MIN.

OPTION 5

ACTIVE LEAF / ACTIVE LEAF:
DESIGN HARDWARE 2000 SERIES STANDARD DUTY SURFACE MOUNT METALLIC 2 POINT LOCK SYSTEM WITH PANIC DEVICE AND VERTICAL RODS ON INTERIOR WITH
(6) 1 1/4"-20 X 3 1/4" FH SMS AND
(6) 1 1/4"-20 X 3/4" FH MS
TOP STRIKE WITH (3) 1/4"-20 X 3/4" FH MS.

OPTION 5 B  ACTIVE LEAF / ACTIVE LEAF:
DESIGN HARDWARE 1000 SERIES HEAVY DUTY (GRADE 1) SURFACE MOUNT METALLIC PANIC DEVICE 2 POINT LOCK SYSTEM WITH PANIC DEVICE AND VERTICAL ROD AT TOP AND BOTTOM
(2) 1 1/4 X 1 1/2" FH SDS,
TOP STRIKE WITH (3) 1/4"-20 X 3/4" FH MS.
## BILL OF MATERIALS

<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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<td>1</td>
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<td>STEEL OR ST/ST</td>
<td>AS REQD</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=0.8 KSI MIN.</td>
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<td>STANDARD WEIGHT BALL BEARING HINGES</td>
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<td>AS REQD</td>
<td>POLYSTYRENE CORP PER CURRENT NOA</td>
<td>CELLOFOAM, BONDED TO INSIDE OF PANEL</td>
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<td>2000, 1000</td>
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<td>AS REQD</td>
<td>2000 RM PVC DEVICES 1010 SERIES OPTIONAL</td>
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<td>MANUAL FLUSH BOLT</td>
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<td>AS REQD</td>
<td>Z ANCHORS (METAL STUD)</td>
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<td>STEEL REINFORCEMENT 1 3/4&quot; X 3 1/2&quot;</td>
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<td>TSTRAP ANCHORS</td>
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<td>AS REQD</td>
<td>DOOR BOTTOM EXTENDER</td>
<td>NATIONAL GUARD PRODUCTS</td>
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<td>SS5</td>
<td>RUBBER</td>
<td>AS REQD</td>
<td>SELF ADHESIVE WEATHERSTRIP</td>
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<td>SW-R</td>
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<td>DOOR SWEEPS</td>
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<td>AS REQD</td>
<td>-</td>
<td>WEATHER STRIP AT MEETING STILE ASTRAGAL - OPTIONAL</td>
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<td>AS REQD</td>
<td>0.715&quot; X 1.605&quot; X 0.715&quot; STEEL CHANNEL (DOOR PANEL WIDTH)</td>
<td>MESKER DOOR 20 GA. (0.030&quot; MIN.) SINGLE ROW OF SPOT WELDS 2&quot; O.C.</td>
</tr>
<tr>
<td>30</td>
<td>DP-29</td>
<td>STEEL OR ST/ST</td>
<td>AS REQD</td>
<td>DOOR PANEL</td>
<td>MESKER DOOR 16 GA. (0.048&quot; MIN.) SPOT WELDED AT EACH END</td>
</tr>
<tr>
<td>31</td>
<td>DP-22</td>
<td>STEEL OR ST/ST</td>
<td>AS REQD</td>
<td>MORTISE LOCK REINFORCEMENT</td>
<td>NATIONAL GUARD PRODUCTS</td>
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<tr>
<td>32</td>
<td>FP-9</td>
<td>STEEL OR ST/ST</td>
<td>AS REQD</td>
<td>MORTISE LOCK (MINI) REINFORCEMENT</td>
<td>MESKER DOOR 16 GA. (0.048&quot; MIN.) SPOT WELDED AT EACH END</td>
</tr>
<tr>
<td>33</td>
<td>DP-23</td>
<td>STEEL OR ST/ST</td>
<td>AS REQD</td>
<td>CYLINDRICAL LOCK PREPARATION</td>
<td>MESKER DOOR 17 GA. (0.054&quot; MIN.) SPOT WELDED AT EACH END</td>
</tr>
<tr>
<td>34</td>
<td>-</td>
<td>STEEL OR ST/ST</td>
<td>AS REQD</td>
<td>SVR TOP STRIKE</td>
<td>DESIGN HARDWARE</td>
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