MATRIX EXODUS EGRESS GATES

Refer to construction specification & tables within this section for recommended post spacing

Effective: 01/20/20

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### MATRIX ALPHA EXODUS® EGRESS GATES | FLANGE MOUNT INSTALLATION

**PRE-HUNG GATE ASSEMBLY | REMOVABLE THRESHOLD | INFILL OPTIONS**

<table>
<thead>
<tr>
<th>ITEM NUMBER</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-Span Modified Infill</td>
<td>480 lbs</td>
</tr>
<tr>
<td>X-Span Modified Infill</td>
<td>480 lbs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ITEM NUMBER</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-Span #9 Infill</td>
<td>475 lbs</td>
</tr>
<tr>
<td>X-Span #9 Infill</td>
<td>475 lbs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ITEM NUMBER</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-Screen Infill</td>
<td>486 lbs</td>
</tr>
<tr>
<td>X-Screen Infill</td>
<td>486 lbs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ITEM NUMBER</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-Span Ultra Infill</td>
<td>489 lbs</td>
</tr>
<tr>
<td>X-Span Ultra Infill</td>
<td>489 lbs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ITEM NUMBER</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>WireWorks Anti-Climb Infill</td>
<td>482 / 484 lbs</td>
</tr>
<tr>
<td>WireWorks Anti-Climb Infill</td>
<td>482 / 484 lbs</td>
</tr>
</tbody>
</table>

**SECURE SIDE**

**THREAT SIDE**

**RIGHT HAND OUTSWING**

**LEFT HAND OUTSWING**

SEE THE END OF THIS SECTION FOR EXODUS HARDWARE OPTIONS

- **= COLOR OPTIONS AVAILABLE**
- **= Hardware Set**
- **= Set 6**
- **= Set 8**
- **= Set 12**

- **= WIRE GAUGE AVAILABLE**
- **= 6 GAUGE**
- **= 8 GAUGE**

- **= FENCE HEIGHT OPTIONS AVAILABLE**
- **= UP TO 10’ TALL**
- **= OVER 10’ TALL**

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# Hardware Set 6
- Von Duprin 99 Series Exit Device
- Von Duprin E99EL Electrified Trim Handle
- LCN 4040XP4PI Parallel Arm Closer

Note: Includes small format cylinder housing w/ disposable construction key. Small format lock core supplied by customer. Cylinder housing is replaceable.

## Hardware Set 8
- Sargent 8200 Series Mortise Lock w/ Deadbolt
- Norton 7500 Parallel Arm Closer

Warning: This hardware set does NOT meet IBC Egress requirements!

Note: Includes small format cylinder housing w/ disposable construction key. Small format lock core supplied by customer. Cylinder housing is replaceable.

### Hardware Set 12
- Detex AH40 Exit with 3-Amp Request to Exit Switch
- Detex EU2W Electrified Trim Handle
- Norton 7500 Parallel Arm Closer

Note: Advantex Exit Device Hurricane Rated. Includes Mortice Cylinder SFIC Housing. Lock core supplied by customer. Cylinder housing is replaceable.

**Note:** Exodus Double Swing Gates Include Right and Left Hand Hardware Sets

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**Indicate Hardware Set by Replacing the ☐ Within the Catalog Part Number.**

- ☐ = Hardware Set
- 6 = Set 6
- 8 = Set 8
- 12 = Set 12

---

**Note:** Exodus Double Swing Gates Include Right and Left Hand Hardware Sets
### EXIT DEVICE GUARD | THROUGH BOLT KITS | FOR FLANGE MOUNT GATES

#### MATRIX ALPHA EXODUS® EGRESS GATES | ACCESSORIES

**NOTE:** FOR VON DUPRIN 99 SERIES EXIT DEVICE. HDW SETS 4, 4C, 5, 5C, 6, 6C RATED - 3 AMPS 24V AC/DC

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>ITEM NUMBER</th>
<th>WEIGHT</th>
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<tbody>
<tr>
<td>Exit Device Guard</td>
<td>1</td>
<td>PHEG42</td>
<td>19 lbs</td>
</tr>
<tr>
<td><strong>What's Included</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GUARD SS</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5/16&quot; X 2-1/2&quot; SS CARRIAGE BOLT BLACK</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5/16-18 TRI GROOVE SECURITY NUT BLACK</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOCKET FOR TRI GROVE NUT</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Von Duprin Request To Exit Switch</td>
<td>1</td>
<td>PHEMSK</td>
<td>21 lbs</td>
</tr>
</tbody>
</table>

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Effective: 01/20/20
PART 1 - GENERAL

1.01 WORK INCLUDED
The contractor shall provide all labor, materials and appurtenances necessary for installation of the egress gate system defined herein at (specify project site).

1.02 RELATED WORK
Section ___  ___  - Earthwork
Section ___  ___  - Concrete
Section ___  ___  - Fence & Gates

1.03 SYSTEM DESCRIPTION
The manufacturer shall supply a total egress gate system of the Ameristar® Exodus® Flange Mount installation method and (specify X-Span Modified, X-Span #9, X-Screen, WireWorks Anti-Climb) infill. The system shall include all components (i.e., gate, jamb frame, infill, and hardware) required.

1.04 QUALITY ASSURANCE
Pre-hung gate system produced by a manufacturer with minimum 10 years experience in gate manufacturing. The contractor shall provide laborers and supervisors who are thoroughly familiar with the type of construction involved and materials and techniques specified.

1.05 REFERENCES
• ASTM A653/A653M – Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot-Dip Process
• ASTM B117 – Practice for Operating Salt-Spray (Fog) Apparatus
• ASTM D523 – Test Method for Specular Gloss
• ASTM D714 – Test Method for Evaluating Degree of Blistering in Paint
• ASTM D822 – Practice for Conducting Tests on Paint and Related Coatings and Materials using Filtered Open-Flame Carbon-Arc Light and Water Exposure Apparatus
• ASTM D1654 – Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments
• ASTM D2244 – Test Method for Calculation of Color Differences from Instrumentally Measured Color Coordinates
• ASTM D3359 – Test Method for Measuring Adhesion by Tape Test
• ASTM F2408 – Ornamental Fences Employing Galvanized Steel Tubular Pickets
• IBC Group I-2 Egress Requirements

1.06 SUBMITTAL
The manufacturer’s submittal package shall be provided prior to installation.

1.07 PRODUCT HANDLING AND STORAGE
Upon receipt at the job site, all materials shall be checked to ensure that no damages occurred during shipping or handling. Materials shall be stored in such a manner to ensure proper ventilation and drainage, and to protect against damage, weather, vandalism, and theft.

1.08 PRODUCT WARRANTY
Gate system (i.e. gate, jamb frame, and infill) shall be warranted within specified limitations, by the manufacturer for a period of three (3) years from date of original purchase. Warranty shall cover any defects in workmanship and material finish, including cracking, peeling, chipping, blistering, or corroding. See full product warranty online or request from Ameristar.

PART 2 - MATERIALS

2.01 MANUFACTURER
The gate system shall conform to the Ameristar Exodus Egress Gate Flange Mount installation method and (specify X-Span Modified, X-Span #9, X-Screen, WireWorks Anti-Climb) infill, manufactured by Ameristar Perimeter Security in Tulsa, Oklahoma.

2.02 MATERIAL
A. Steel material for gate framework (i.e. jamb frame & gate), shall be galvanized prior to forming in accordance with the requirements of ASTM A653/A653M, with minimum yield strength of 45,000 psi (310 MPa). The steel shall be hot-dip galvanized to meet the requirements of ASTM A653/A653M with a minimum zinc coating weight of 0.90 oz/ft² (276 g/m²), Coating Designation G-90.
B. Infill frame shall be 12ga steel. Expanded metal mesh shall be ¾” x #9 flattened or Perforated metal mesh shall be 3/16” round x ½” x 18ga.
C. If applicable - material for pales shall be 2.75” x .75” x 14ga. corrugated shape. Standard pale spacing shall be no greater than 6” o.c. or anti-scale pale spacing at no greater than 4.25” o.c.
D. Gate shall be 1.75” x 14ga steel reinforced structural design with ¼” plate reinforced hinge mounting.
E. Hinges shall be stainless steel five knuckle bearing hinges with non-removable pin and stainless steel fasteners.
2.03 FABRICATION
A. Gate shall be pre-drilled to accept appropriate hardware set. Infill frames shall be fabricated as a single unit. Frame shall be of welded construction inset with mesh filler, attachment to gate frame by means of security fasteners.

B. Gate jamb frame shall be fully welded consisting of 3" x 12ga square tubing for main jamb, 1" square gate stop, and strike mounting block, with gate stop bumpers. Jamb to include an electrical access point with conduit point of connection. Electrical connection to gate by means of Power Transfer connection mounted in jamb and gate. Gate shall be pre-assembled.

C. Gate threshold to be mounted with fasteners allowing for placement below grade or removal after gate installation.

D. Gate shall have clear opening (from gate stop to face of gate open to 90 degrees) of 41.5" meeting IBC Group I-2 Egress requirements.

E. Gate hardware to consist of exterior rated devices. Gate and hardware to be pre-assembled prior to shipping.

F. The manufactured galvanized gate shall be subjected to a multi-stage pretreatment/wash, followed by a dual stage coating process consisting of a cathodic electro-coat epoxy primer base coat and an electrostatic spray topcoat application, a PermaCoat® powder coat system. Steel framework is subjected to a six-stage pretreatment/wash followed by an electrostatic spray application of PermaCoat Color System, a two-coat powder system. The base coat is a thermosetting epoxy powder coating (gray in color). The top coat is a “no-mar” TGIC polyester powder coat finish with a minimum thickness of 2 mils (0.0508mm). The stratification-coated framework shall be capable of meeting the performance requirements for each quality characteristic shown in Table 2.

3.03 GATE INSTALLATION MAINTENANCE
When cutting/drilling gate components or posts adhere to the following steps to seal the exposed steel surfaces; 1) Remove all metal shavings from cut area. 2) Apply zinc-rich primer to thoroughly cover cut edge and/or drilled hole; let dry. 3) Apply 2 coats of custom finish paint matching fence color. Failure to seal exposed surfaces per steps 1-3 above will negate warranty. Ameristar spray cans or paint pens shall be used to prime and finish exposed surfaces; it is recommended that paint pens be used to prevent overspray. Use of non-Ameristar parts or components will negate the manufacturer's warranty.

3.04 CLEANING
The contractor shall clean the jobsite of excess materials; post-hole excavations shall be scattered uniformly away from posts.
## EXODUS® FOR MATRIX ALPHA | CONSTRUCTION SPECIFICATION 32 31 19

**EGRESS GATE SYSTEM | PRE-HUNG GATE**

### EXODUS EGRESS GATE - FLANGE MOUNTING OPTION

<table>
<thead>
<tr>
<th>POST TYPE &amp; SIZE</th>
<th>SQUARE POST (Including Tech Post) to SQUARE POST / SEE FIGURE 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>POST SETTING FACE TO FACE</td>
<td>63&quot;-1/4&quot;</td>
</tr>
</tbody>
</table>

### TABLE 2

<table>
<thead>
<tr>
<th>QUALITY CHARACTERISTICS</th>
<th>ASTM TEST METHOD</th>
<th>PERFORMANCE REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADHESION</td>
<td>D3359 – METHOD B</td>
<td>Adhesion (retention of coating) over 90% of test area (tape and knife kit test).</td>
</tr>
<tr>
<td>CORROSION RESISTANCE</td>
<td>B117, D714, D1654</td>
<td>Corrosion resistance over 3,500 hours (scribed per D1654; failure mode is accumulation of 1/8&quot; coating loss from scribe or medium #8 blisters)</td>
</tr>
<tr>
<td>IMPACT RESISTANCE</td>
<td>D2794</td>
<td>Impact resistance over 60* lb. (forward impact using 0.625&quot; ball).</td>
</tr>
<tr>
<td>WEATHERING RESISTANCE</td>
<td>D822 D2244, D523 (60* method)</td>
<td>Weathering resistance over 1,000 hours (failure mode is 60% loss of gloss or color variance of more than 3 delta-E color units).</td>
</tr>
</tbody>
</table>

#### TABLE 1

**EXODUS® PERIMETER ENCLOSURE GRID**

**TABLE 2**

<table>
<thead>
<tr>
<th>EXODUS EGRESS GATE - FLANGE MOUNTING OPTION</th>
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<td>POST SETTING FACE TO FACE</td>
</tr>
<tr>
<td>63&quot;-1/4&quot;</td>
</tr>
</tbody>
</table>

#### FIGURE 1

**SQ POST TO SQ POST**
Exodus® Egress Gate by Ameristar® is manufactured from the highest quality materials by skilled craftsmen to meet the highest standards of workmanship in the industry. Steel gate is subjected to a multi-stage pretreatment/wash, followed by a dual stage coating process consisting of a cathodic electro-coat epoxy primer base coat and an electrostatic spray topcoat application, a PermaCoat® powder coat system. Steel framework is subjected to a six stage pretreatment/wash followed by an electrostatic spray application of PermaCoat Color System, a two coat powder system. The base coat is a thermosetting epoxy powder coating (gray in color). The top coat is a “no-mar” TGIC polyester powder coat finish, which provides the protection necessary to withstand adverse environmental conditions.

The coated surface on all framework and gate (i.e., infill, jamb frame & gate) is guaranteed under normal and proper usage, against cracking, peeling, chipping, blistering or corroding for a period of three (3) years from the original purchase date. Normal and proper usage does not include physical damage, abrasion, or exposure to salty environments to the protective coating.

Exodus Egress Gate framework and gate is also guaranteed for the same period of time against defects in workmanship or materials. Should any framework or gate fail in accordance with any of the above conditions, Ameristar Perimeter Security warrants to the original purchaser their redemption through replacement, renewal, or issuance of a pro-rated credit. Product failure is defined as having a minimum threshold of 2% surface affected. The decision as to which method of redemption is allowed is solely at the discretion of Ameristar.

If pro-rated allowance is the chosen alternative, the amount will be based on the total number of years under warranty from date of purchase to date of claim, based on the original cost of framing materials found to be defective. Notice of failure under the conditions of this warranty shall be sent to Ameristar or its authorized representative, in writing, together with proof of purchase and shall specify the nature of the defect and when it was first observed. If product is nicked or coating is compromised during installation, immediately seal the exposed surfaces by 1) Removing all metal shavings from area, 2) Apply zinc-rich primer to thoroughly cover area; let dry, 3) Apply two (2) coats of custom finish paint matching product color. Failure to seal exposed surfaces per steps 1-3 will negate warranty.

If the contractor uses non-Ameristar parts/components this will negate product warranty. Should the gate be improperly installed, Ameristar shall not be responsible for guaranteed performance or appearance of the material. Neither does this guarantee apply when failure or damage is due to improper use or application, abuse or misuse, neglect, alteration, coastal or marine environments, vandalism or acts of God. Ameristar reserves the right to inspect the material to determine validity of claim.

Upon validation of the claim by Ameristar or its authorized representative, redemption by replacement, renewal or issuance of a pro-rated credit shall be made by Ameristar. Reimbursement for the costs of removal and installation of materials are not included in the guarantee, nor will Ameristar provide those services.

Ameristar makes no warranty whatsoever in respect to hardware, components, parts, or attachments not manufactured or supplied by Ameristar. Exodus Egress Gate hardware is not warranted by Ameristar, see hardware manufacturer's warranties for hardware warranty details. Ameristar excludes all costs arising from routine maintenance, including replacement parts required for routine maintenance.

The above constitutes the complete warranty by the manufacturer. No other agreement, written or implied, is valid. Ameristar does not authorize any other person or agent to make any other express warranties. Ameristar neither assumes nor authorizes any other person or agent to assume any other liability in connection with its Exodus Egress Gates. Some jurisdictions do not allow limitations on how long an implied warranty lasts, nor do they allow an exclusion or limitation of incidental or consequential damages; therefore, the limitations and exclusions noted herein may not apply.