Ornamental Cantilever Gates are supplied with rolls of 2" mesh safety screening in sufficient quantities to cover the entire gate (including overhang) and an equal portion of fence parallel to the gate in the open position up to a height of over 6' from ground elevation. This screening must be included when the TransPort Gate is assembled at the job site. Additionally, all of the safety requirements of ASTM F2200 must be met during installation. Failure to incorporate the safety mesh or follow ASTM F2200 safety requirements during gate assembly and installation will cause rejection of the entire gate system any time an attempt is made to attach the gate to an automatic gate operator. Ameristar assumes no responsibility for gate installations that fail to utilize the materials provided or meet the applicable safety standards.

Refer to construction specification & tables within this section for more details.

Effective: 01/01/18
TRANSPORT ESTATE® | CANTILEVER GATES

GATE HARDWARE & POST NOT INCLUDED | ASSEMBLY REQUIRED

<table>
<thead>
<tr>
<th>OPENING</th>
<th>ITEM NUMBER</th>
<th>WEIGHT</th>
<th>PICKET QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>4'-5'</td>
<td>EC@54144</td>
<td>422</td>
<td>28</td>
</tr>
<tr>
<td>5'-6'</td>
<td>EC@54168</td>
<td>495</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>EC@54192</td>
<td>550</td>
<td>38</td>
</tr>
<tr>
<td>6'-7'</td>
<td>EC@55144</td>
<td>456</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>EC@55168</td>
<td>533</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>EC@55192</td>
<td>590</td>
<td>38</td>
</tr>
<tr>
<td>7'-8'</td>
<td>EC@56144</td>
<td>482</td>
<td>28</td>
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<tr>
<td></td>
<td>EC@56168</td>
<td>572</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>EC@56192</td>
<td>630</td>
<td>38</td>
</tr>
<tr>
<td></td>
<td>EC@57144</td>
<td>525</td>
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<td>EC@57168</td>
<td>611</td>
<td>34</td>
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<tr>
<td></td>
<td>EC@57192</td>
<td>971</td>
<td>38</td>
</tr>
</tbody>
</table>

= FENCE STYLES AVAILABLE | C = Classic | M = Majestic | G = Genesis
= COLOR OPTIONS AVAILABLE | B = Black | N = Bronze | W = White | S = Sand

TRANSPORT ESTATE® | CANTILEVER GATE HARDWARE

4" sq. x 11 ga. MINIMUM POST SIZE REQUIRED FOR CANTILEVER GATE INSTALLATION

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>ITEM NUMBER</th>
<th>BOX QTY</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot; sq. Post Gate Kit</td>
<td>TGKODN1</td>
<td>1</td>
<td>80</td>
</tr>
<tr>
<td>6&quot; sq. Post Gate Kit</td>
<td>TGKOD-6N1</td>
<td>1</td>
<td>90</td>
</tr>
</tbody>
</table>

Kits include: (4) Truck Assemblies / 6-wheel | (4) Truck Brackets / U-Bolts 4" or 6" sq. per kit size | (2) Cantilever Gate Latch / Yolk & Receiver | (2) Gate Stops

Effective: 01/01/18

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### STEEL POSTS

**POST LENGTH** | **ITEM NUMBER** | **WEIGHT**  
--- | --- | ---  
6' | P@40072 | 39 lbs  
7' | P@40084 | 47 lbs  
8' | P@40096 | 54 lbs  
9' | P@40108 | 61 lbs  
10' | P@40120 | 67 lbs  
11' | P@40132 | 74 lbs  
12' | P@40144 | 81 lbs  
13' | P@40156 | 87 lbs  
14' | P@40168 | 94 lbs  
15' | P@40180 | 101 lbs  
16' | P@40192 | 108 lbs  
18' | P@40216 | 114 lbs  
20' | P@40240 | 126 lbs  
24' | P@40288 | 162 lbs  
7' | P@60084 | 102 lbs  
8' | P@60096 | 116 lbs  
9' | P@60108 | 131 lbs  
10' | P@60120 | 145 lbs  
11' | P@60132 | 160 lbs  
12' | P@60144 | 174 lbs  
13' | P@60156 | 189 lbs  
14' | P@60168 | 204 lbs  
15' | P@60180 | 218 lbs  
16' | P@60192 | 232 lbs  

**CAP SIZE** | **ITEM NUMBER** | **WEIGHT**  
--- | --- | ---  
4"sq. | A@509 | .4 lbs  
6"sq. | A@515 | .8 lbs  

*NOTE: In locations subject to freezing temperatures, where posts are grouted into core-drilled holes, a .25" diameter hole should be drilled into the post approximately .5" above the elevation to allow for drainage of ground water build-up. The drilled hole must be wiped clean and be dry prior to applying Ameristar zinc primer and color finish.*
PART 1 - GENERAL
1.01 WORK INCLUDED
The contractor shall provide all labor, materials and appurtenances necessary for installation of the arched entry cantilever gate system defined herein at (specify project site).

1.02 RELATED WORK
Section ___ ___ - Earthwork
Section ___ ___ - Concrete

1.03 SYSTEM DESCRIPTION
The manufacturer shall supply a total arched entry cantilever gate system of the Ameristar TransPort Estate (specify Classic, Majestic or Genesis) design. The system shall include all components (i.e., gate modules, tracks, uprights, bracing, pickets, hardware, fittings, and fasteners) required.

1.04 QUALITY ASSURANCE
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 B221 – Aluminum and Aluminum Alloy Extruded Bars, Shapes and Tubes
- ASTM D523 – Practice for Operating Salt-Spray (Fog) Apparatus
- ASTM D714 – Test Method for Specular Gloss
- 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 D6695 – Standard Practice for Xenon-Arc Exposures of Paint and Related Coatings

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.

PART 2 - MATERIALS
2.01 MANUFACTURER
All arched entry aluminum cantilever gates shall conform to the Ameristar TransPort Estate gate system, (specify Classic, Majestic or Genesis) design, manufactured by Ameristar Fence Products, Inc., in Tulsa, Oklahoma. The project gate schedule shall include the following additional information for each cantilever gate included in the project scope: (specify nominal opening size in feet) opening, (specific nominal height in feet) height, (specify direction of gate travel to the open position, right or left, viewing from outside fence line looking in) gate travel direction.

2.02 MATERIAL
A. The materials used for cantilever gate framing (uprights & diagonal bracing), and arched entry gate leaf/leafs shall be manufactured from ASTM B221 aluminum (designation 6063-T-6) with yield strength of 25,000 PSI, a tensile strength of 30,000 PSI and a standard mill finish. The TransPort enclosed tracks shall be manufactured from ASTM B221 aluminum (designation 6063-T-6) with a yield strength of 25,000 PSI, a tensile strength of 30,000 PSI and a standard mill finish.

B. Pickets, rails, and gate ends shall be precut to specified lengths and welded into gate modules. Gate module arch shall be designed using a compound arch for top rails.

C. Material for gate uprights and diagonal bracing shall be 2” square x 1/4” wall aluminum. The cross-sectional shape of the top and bottom enclosed-track shall confirm to the manufacturer’s Fast-Trak™ design with as a single extrusion consisting of a 2” x 5” channeled support with integrated 2” x 2” enclosed-track raceway.

D. Steel material for fence posts 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. Material for gate support posts shall be 4” square x 11 Ga. tubing.

E. Suspension Rollers for top and bottom tracks shall be used at each support post to track connection. Each truck assembly shall be capable of being adjusted vertically via threaded rod for fine-tune adjustment. Truck assembly shall be constructed in a way so that the primary housing for the truck rollers shall pivot via ball-bearing connection.
TRANSPORT ESTATE® | CONSTRUCTION SPECIFICATION 32 31 00

ARCHED ENTRY CANTILEVER GATE SYSTEM

to threaded rod.

2.03 FABRICATION
A. Gate frame uprights and diagonal bracing shall be prefabricated and pre-punched to accept frame fasteners. Enclosed track shall be pre-punched to accept gate uprights. Gate modules shall be fabricated to specific length and predrilled to accept module to track fasteners. Posts shall be precut to specified lengths.

B. Top and bottom enclosed track extrusions shall be mechanically fastened to vertical gate uprights and intermediate supports, as required by assembly instructions. Diagonal bracing shall be mechanically fastened to vertical gate uprights and intermediate supports, as required by assembly instructions. Gate module shall be mechanically fastened to top and bottom enclosed track, as required by assembly instructions.

C. The manufactured gate components shall be subjected to the Ameristar thermal stratification coating process (high-temperature, in-line, multi-stage, and multi-layer) including, as a minimum, a six-stage pretreatment/wash and an electrostatic spray application of a polyester finish. The topcoat shall be a “no-mar” TGIC polyester powder coat finish with a minimum thickness of 2 mils (0.0508mm). The color shall be (specify Black, Bronze, White, or Desert Sand). The stratification-coated framework shall be capable of meeting the performance requirements for each quality characteristic shown in Table 1.

PART 3 - EXECUTION
3.01 PREPARATION
All new installation shall be laid out by the contractor in accordance with the construction plans.

3.02 GATE INSTALLATION
A. Cantilever support posts shall be set in concrete footers having a minimum depth of 48” (Note: in some cases, local restrictions of freezing weather conditions may require a greater depth). The “Earthwork” and “Concrete” sections of this specification shall govern material requirements for the concrete footer. Posts setting by other methods such as plated posts or grouted core-drilled footers are permissible only if shown by engineering analysis to be sufficient in strength for the intended application.

B. Gate to be installed per manufacturers gate installation instructions. Gate shall be installed in compliance with ASTM F2200 standards.

3.03 GATE INSTALLATION MAINTENANCE
When cutting/drilling 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 manufactures’ warranty.

3.04 GATE INSTALLATION
Gate posts shall be spaced according to the manufacturers’ drawings, dependent on clear opening. The manufacturers’ gate drawings shall identify the necessary gate hardware required for the application. Gate hardware shall be provided by the manufacturer of the gate and shall be installed per manufacturer’s recommendations.

3.05 CLEANING
The contractor shall clean the jobsite of excess materials; post-hole excavations shall be scattered uniformly away from posts.

<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 1,000 hours (scribed per D1654; failure mode is accumulation of 1/8” 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” ball).</td>
</tr>
<tr>
<td>WEATHERING RESISTANCE</td>
<td>D820 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>

8.13