### 350-MATRIX

Design Number: 350-MATRIX_H - Bill Of Material

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Posts</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>ZZCH0048</td>
<td>3.5in OD x 160in STEEL POST W/ RIVETED CAP</td>
<td>4</td>
</tr>
<tr>
<td>Climbers</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>ZZCH6647</td>
<td>10ft MATRIX WALL</td>
<td>1</td>
</tr>
<tr>
<td>Additional Tool &amp; Maintenance Kits</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>ZZCHGUID</td>
<td>CHALLENGER GUIDELINES</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>ZZUN9910</td>
<td>SURFACING WARNING LABEL KIT</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>ZZUN9936</td>
<td>MAINTENANCE BOOK</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>ZZUN9990</td>
<td>TOOL AND ADDITIONAL PARTS KIT W/AEROSOL</td>
<td>1</td>
</tr>
</tbody>
</table>
## 350-MATRIX

Design Number: 350-MATRIX_H - Compliance and Technical Data


<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Part No.</th>
<th>Qty.</th>
<th>Description</th>
<th>Unit CSA Status</th>
<th>Total Weight (lbs)</th>
<th>Pre-Consumer Recycled Content (lbs)</th>
<th>CO2e Footprint (kgs)</th>
<th>Users</th>
<th>Install Hours</th>
<th>Concrete (Yds3)</th>
<th>Active Play Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ZZCH0048</td>
<td>4</td>
<td>3.5in OD x 160in STEEL POST W/ RIVETED CAP</td>
<td>Certified</td>
<td>200.84</td>
<td>278</td>
<td>0</td>
<td>4.00</td>
<td>0.50</td>
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<tr>
<td>2</td>
<td>ZZCH6647</td>
<td>1</td>
<td>10ft MATRIX WALL</td>
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<td>5</td>
<td>3.00</td>
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<td>0.25</td>
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<tr>
<td>3</td>
<td>ZZCHGUID</td>
<td>1</td>
<td>CHALLENGER GUIDELINES</td>
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<td>1</td>
<td>0</td>
<td>0.25</td>
<td>0.00</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>ZZUN9910</td>
<td>1</td>
<td>SURFACING WARNING LABEL KIT</td>
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<td>1</td>
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<td>0.25</td>
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<td>0.00</td>
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<tr>
<td>5</td>
<td>ZZUN9936</td>
<td>1</td>
<td>MAINTENANCE BOOK</td>
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<tr>
<td>6</td>
<td>ZZUN9990</td>
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<td>TOOL AND ADDITIONAL PARTS KIT W/AEROSOL</td>
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<td>0.00</td>
<td>0.00</td>
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</tr>
</tbody>
</table>

**Totals:**

- Weight: 435.51 lbs
- Concrete: 836 yds
- Units: 80 kg
- Active Play Events: 1

**Concrete (Yds3):**

- 0.61 m³

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Tuesday, August 30, 2011
**350-MATRIX**

Design Number: 350-MATRIX_H - Compliance and Technical Data


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<th>Unit CSA Status</th>
<th>Total Weight (lbs)</th>
<th>Pre-Consumer Recycled Content (lbs)</th>
<th>Post-Consumer Recycled Content (lbs)</th>
<th>CO2e Footprint (kgs)</th>
<th>Users</th>
<th>Install Hours</th>
<th>Concrete (Yds3)</th>
<th>Active Play Events</th>
</tr>
</thead>
</table>

**CAN/CSA-Z614-07**

The lay-out for this custom playscape, design number 350-MATRIX_H, has been configured to meet the requirements of the CAN/CSA-Z614-07 standard. In addition, each of the above components listed as "Certified" have been tested and are IPEMA certified. Components listed as "Not Applicable" do not fall within the scope of the CAN/CSA-Z614-07 standard and have not been tested. IPEMA certification can be verified on the IPEMA website, www.ipema.org. In the interest of playground safety, IPEMA provides a Third Party Certification Service which validates compliance.

**Installation Times**

Installation times are based on one experienced installer. A crew of three experienced individuals can perform the installation within the given time, each member working 1/3 of the given hours. [Eg. Installation Time = 30 hours. For a crew of three, each member will work 10 hours on the installation for a total of 30 hours on the project.]

**Carbon Footprint**

The CO2e (carbon footprint given in Kilograms and Metric Tons) listed above is a measure of the environmental impact this play structure represents from harvesting raw materials to the time it leaves our shipping dock. Playworld Systems nurtures a total corporate culture that is focused on eliminating carbon producing processes and products, reducing our use of precious raw materials, reusing materials whenever possible and recycling materials at every opportunity. Playworld Systems elected to adopt the Publicly Available Specification; PAS 2050 as published by the British Standards Institute and sponsored by Defra and the Carbon Trust. The PAS 2050 has gained international acceptance as a specification that measures the greenhouse gas emissions in services and goods throughout their entire life cycle.

**Pre-Consumer Recycle Content**

A measurement, in pounds, that qualifies the amount of material that was captured as waste and diverted from landfill during an initial manufacturing process and is being redirected to a separate manufacturing process to become a different product. E.g. 100% of our Aluminum Tubing is made from captured waste material during the manufacturing process of extruded Aluminum products such as rods, flat bars and H-channels.

**Post-Consumer Recycle Content**

A measurement, in pounds, that qualifies the amount of material that was once another product that has completed its lifecycle and has been diverted from a landfill as a solid waste through recycling and is now being used in a Playworld Systems' product. E.g. **20% to 40% of the steel in our steel tubing and sheet steel have been diverted from landfills. Automobiles are scrapped and recyclable steel is purchased by the steel mill that produces our raw product.** **The amount of Post-Consumer recycled steel fluctuates daily based on the availability of the recycled steel.**
FOOTING LEGEND

- COMPONENT FOOTING  (DETAIL 3)
- SPIRAL SLIDE CENTER POST FOOTING  (DETAIL 1)
- CANTILEVER, "T" POST, AND COMPONENT POST FOOTING  (DETAIL 2)
- GROUND ZERO POST FOOTING  (DETAIL 2)

(144" INDICATES POST LENGTH)
(112" INDICATES POST LENGTH)

MATERIALS

PLAYWORLD™

Playworld Systems, Inc.
1000 Buffalo Road
Levittown, PA
17831-2796

FOOTING PLAN

CATALOG PRE-DESIGN

350-MATRIX

*Playground Superintend Required
Design Number: 350-MATRIX
Challengers® playscape layout per ASTM F1487-07 / CPSC #325

- Weight: 436 lbs (197.77 kg)
- Age Group: 5-12 Years
- Length: 10'-06" (3.20 m)
- Use Zone L: 22'-06" (6.86 m)
- Width: 3'-06" (1.07 m)
- Use Zone W: 15'-06" (4.72 m)
- Height: 11'-00" (3.35 m)
- Number of Users: 5
- Installation Time: 8 Hours
- Number of Play Events: 1

Colors Shown:
- Red
- Sand