### 350-DRUM
Design Number: 350-DRUM_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>1</td>
<td>ZZCH0356</td>
<td>3.50in x 88in STEEL POST w/CAP</td>
<td>2</td>
</tr>
</tbody>
</table>

**Audible Activities**

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>ZZCH4587</td>
<td>DRUM PANEL (GROUND LEVEL)</td>
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</tbody>
</table>

**Additional Tool & Maintenance Kits**

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>ZZCHGUID</td>
<td>CHALLENGER GUIDELINES</td>
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<tr>
<td>4</td>
<td>ZZUN9910</td>
<td>SURFACING WARNING LABEL KIT</td>
<td>1</td>
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<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>
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</tbody>
</table>
## 350-DRUM

Design Number: 350-DRUM_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>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>
<tbody>
<tr>
<td>1</td>
<td>ZZCH0356</td>
<td>2</td>
<td>3.50in x 88in STEEL POST w/CAP</td>
<td>Certified</td>
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<tr>
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<td>ZZCH4587</td>
<td>1</td>
<td>DRUM PANEL (GROUND LEVEL)</td>
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<tr>
<td>3</td>
<td>ZZCHGUID</td>
<td>1</td>
<td>CHALLENGER GUIDELINES</td>
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<td>0.00</td>
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<tr>
<td>4</td>
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<td>SURFACING WARNING LABEL KIT</td>
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<td>0.00</td>
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<tr>
<td>5</td>
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<td>1</td>
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</tr>
<tr>
<td>6</td>
<td>ZZUN9990</td>
<td>1</td>
<td>TOOL AND ADDITIONAL PARTS KIT W/AEROSOL</td>
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<td>0.00</td>
<td>0</td>
</tr>
</tbody>
</table>

**Totals:**

- **Weight**: 108.57 lbs  
- **Concrete**: 21 tons  
- **CO2e Footprint**: 28 kg  
- **Install Hours**: 615 hours  
- **Active Play Events**: 2

- **Concrete (Yds3)**: 48.86 m³  
- **Concrete (Kg)**: 9 kg  
- **Concrete (Kg)**: 13 kg  
- **Concrete (Metric Tons)**: 1 metric ton  
- **Concrete (m³)**: 0.20 m³

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Tuesday, August 30, 2011
The lay-out for this custom playscape, design number 350-DRUM_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.
**DETAIL 1**
Support Post, Spiral Slide and RockBlocks Post Footing Detail

**DETAIL 2**
GroundZenO, Cantilever and "T" Post Footing Detail

**DETAIL 3**
Component Footing Detail

**DETAIL 4**
Surface Mount Detail

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**INSTALLATION NOTES:**
1. Proved surfaces, such as asphalt and concrete, are not acceptable for use under your structure.
2. It is the consumer's responsibility to check with local utilities prior to excavating footings for any underground utility lines that may exist within the installation area.
3. It is the consumer's responsibility to check local soil conditions and drainage within the site area. Inquire with local contractors for appropriate recommendations.
4. If the structure is to be installed across uneven terrain, maintain the support post mark for protective footing level at the lowest grade. Adjust other footings accordingly.
5. The base of footings must be below frost lines.
6. Do not encase the bottom of support posts in concrete. Place all posts directly on packed stone.
7. Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.
8. Read completely the installation instructions provided with your structure prior to beginning construction.

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**SITE NOTES:**
1. The site plan provided must be checked against the actual site area to ensure that placement of your structure meets required clearances.
2. The dimensions labeled are for location of footing holes, not exact placement of equipment. Assemble, plumb, and level equipment before pouring concrete.
3. There must be a minimum distance of 8 (1830mm) between any obstacle, sidewalk, etc., and your structure.
4. Skids must have a use zone that extends out from the lower end section of the slide a distance that is at least 8 (1830mm) or equal to the vertical distance from the highest point of the sliding surface to the top of the protective surfacing, whichever is greater. The slide use zone should not extend greater than 8 (2438mm) from the end of the lower exit section.
6. Supervise children as they play.
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)

= SUPPORT POST FOOTING (DETAIL 1 or 4)

(144" INDICATES POST LENGTH)

(112" INDICATES POST LENGTH)
Design Number: 350-DRUM
Challengers® playscape layout per ASTM F1487-07 / CPSC #325

Weight: 109 lbs (49.44 kg)
Age Group: 18 months - 12 Years

Length: 3'-06" (1.07 m)
Use Zone L: 15'-06" (4.72 m)

Width: 1'-07" (0.48 m)
Use Zone W: 13'-07" (4.14 m)

Height: 5'-00" (1.52 m)
Number of Users: 2

Installation Time: 4 Hours
Number of Play Events: 1

Colors Shown:

Red-Yellow

Blue

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