

Dragon's Lair

Equipment Manufacturer



350-1810

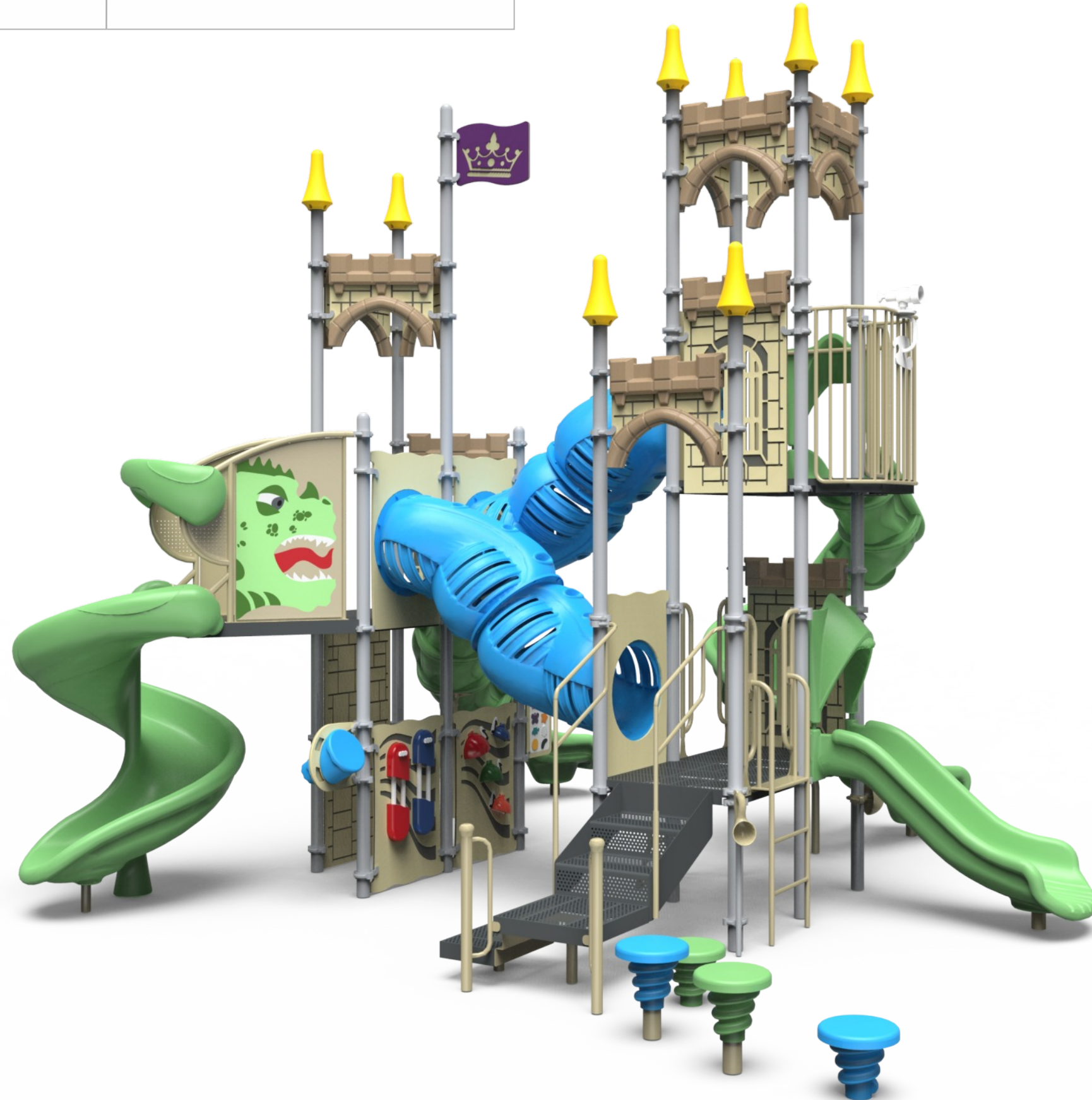


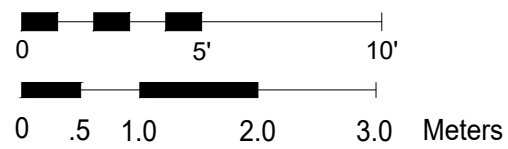
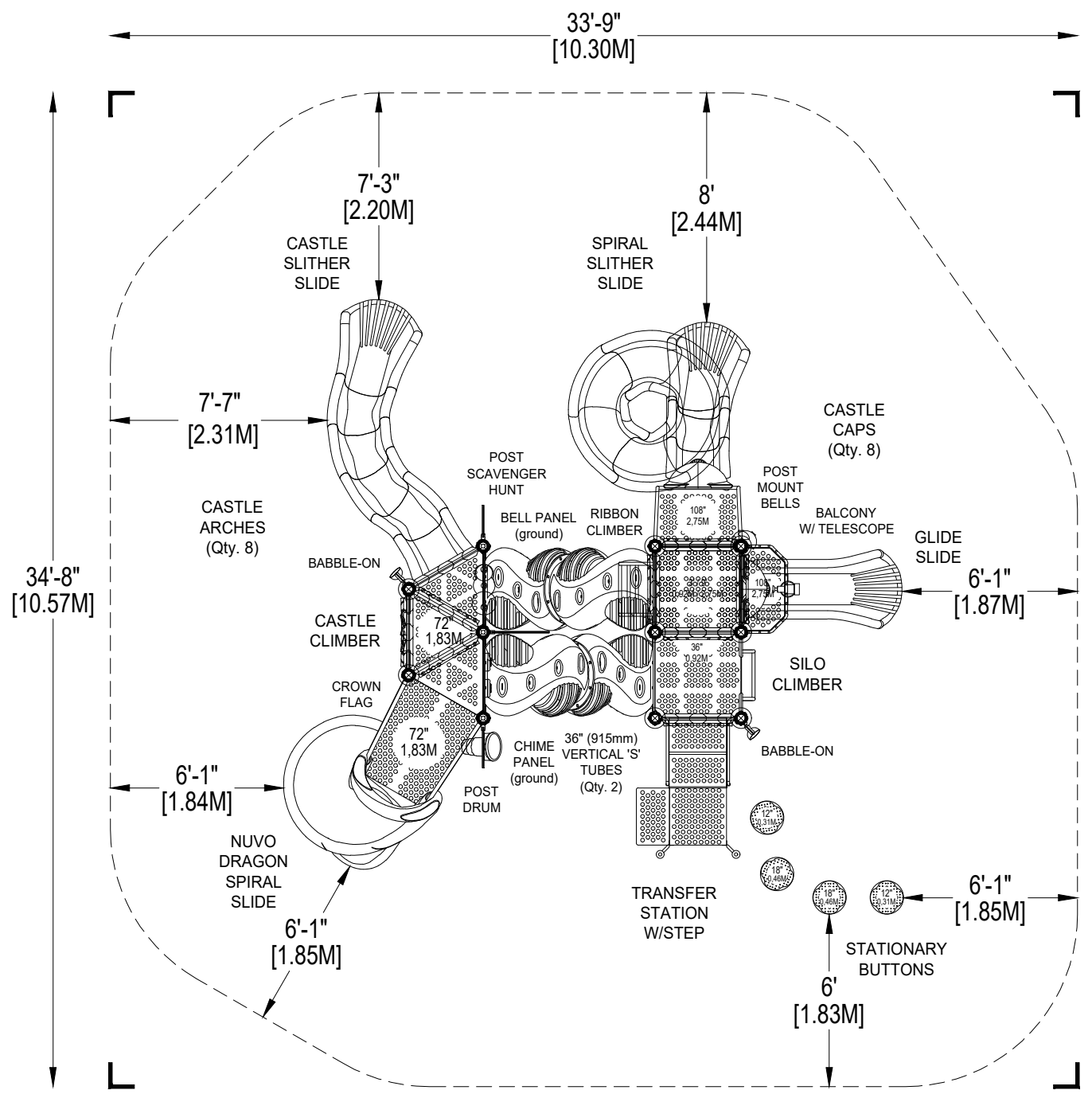
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*PLAYGROUND SUPERVISION REQUIRED



PLAYWORLD SYSTEMS, INC.
 1000 Buffalo Road
 Lewisburg, PA
 17837-9795 USA

EQUIPMENT SIZE:
21'-8" x 21'-5" x 18'-9"
 6,61M x 7,75M x 5,72M

USE ZONE:
33'-9" x 34'-8"
 10,30M x 10,57M

AREA: **1,051 SqFt.** PERIMETER: **119 Ft.**
 97,64 SqM. 36,27M

FALL HEIGHT:
9 Ft.
 2,75M

USER CAPACITY: **54** AGE GROUP: **5-12**

ADA SCHEDULE	Total Elevated Play Activities: 10		
	Total Ground-Level Play Activities: 7		
	Accessible Elevated Activities	Accessible Ground-Level Activities	Accessible Ground-Level Play Types
Required	5	3	3
Provided	10	5	3

✓ ASTM F1487-11
 ✓ CPSC #325



PROJECT NO: 350-1810	SCALE: 3/16"=1'-0"
DRAWN BY: M. MERTZ	Paper Size B
DATE: 18-OCT-17	

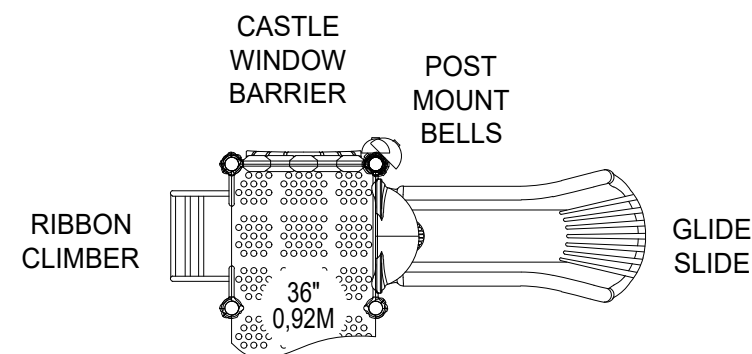
DRAGON'S LAIR
 CATALOG PRE-DESIGN



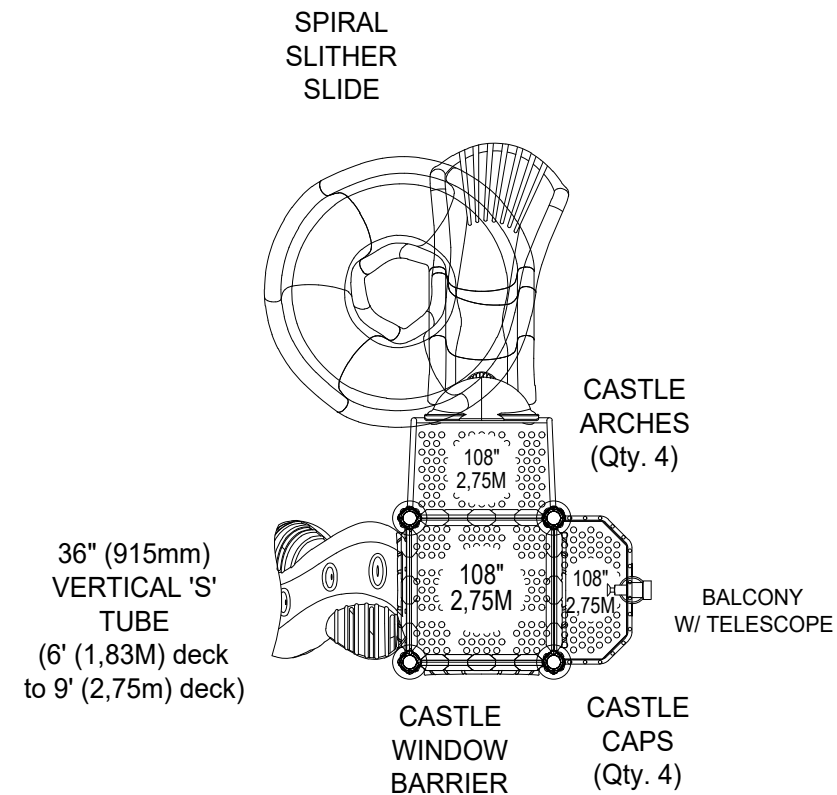
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NOTES:

- 1) This tower detail is a diagram of the individual level layouts of the tower portion of your play structure, showing the detailed component layout of each level.
- 2) This tower detail is not to scale and is meant for reference purposes only. It should not be used in obtaining accurate measurements for any of the equipment shown unless otherwise noted on the drawing.
- 3) This design configuration is the property of this firm and Playworld Systems® and may not be reproduced or used in any manner without the expressed written consent of this firm and Playworld Systems®.



3' (0,92M) DECK LEVEL



9' (2,75M) DECK LEVEL

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DRAGON'S LAIR
 CATALOG PRE-DESIGN

TOWER DETAIL:

Detail 1

PROJECT NO: 350-1810	SCALE: NOT TO SCALE
DRAWN BY: M. MERTZ	Paper Size B
DATE: 18-OCT-17	

Dragon's Lair

Design Number: 350-1810 - Bill Of Material

Ref. No.	Part No.	Description	Quantity
Posts			
1	ZZCH0048	3.5in OD x 160in STEEL POST W/ RIVETED CAP	2
2	ZZCH0069	3.5in OD x 184in STEEL POST W/O CAP	2
3	ZZCH0258	3.5in OD x 224in STEEL POST W/CAP	1
4	ZZCH0259	3.5in OD x 224in STEEL POST W/O CAP	6
5	ZZCH0367	2ft POST EXTENSION FOOTER & CLAMP SUPPORT	5
Decks & Kick Plates			
6	ZZCH0616	SQUARE COATED DECK ASSEMBLY	1
7	ZZCH0618	1/2 HEX COATED DECK ASSEMBLY	1
8	ZZCH0629	LONG COATED DECK ASSEMBLY	1
ADA Items			
9	ZZCH2007	TRANSFER STATION w/TALL GUARDRAIL (36in DECK)	1
10	ZZUN2019	APPROACH STEP FOR TRANSFER STATION	1
Slides			
11	ZZCH3127	GLIDE SLIDE (36in DECK)	1
12	ZZCH3216	SLITHER SLIDE 2.0 BALCONY ENTRY/EXIT	1
13	ZZCH3540	SLIDE- NUVO 360 SPIRAL SLIDE - SERPENT	1
14	ZZCH8510	SLITHER SLIDE ENTRY/EXIT (CASTLE THEME)	1
15	ZZUN3207	SLITHER SLIDE 2.0 (STRAIGHT SECTION)	1
16	ZZUN3208	SLITHER SLIDE 2.0 (RIGHT SECTION)	3
17	ZZUN3209	SLITHER SLIDE 2.0 (LEFT SECTION)	1
18	ZZUN3218	SLITHER SLIDE 2.0 (LEFT 120° SECTION)	3
19	ZZUN3247	SLITHER SLIDE 2.0 SUPPORT LEG 5ft-6in	1
20	ZZUN3249	SLITHER SLIDE 2.0 SUPPORT LEG 3ft-6in	1
21	ZZUN3256	SLITHER SLIDE 2.0 SUPPORT LEG 2ft-6in	1
Activity Panels			
22	ZZCH4356	BALCONY	1
23	ZZCH4648	POST MOUNT SCAVENGER HUNT	1
24	ZZCH8516	CASTLE WINDOW BARRIER (DECK)	2
25	ZZUN4279	TELESCOPE PIPE WALL MOUNT (CH/EX)	1
Crawl Tubes			
26	ZZCH5636	VERTICAL S ADVENTURE TUBE	2
Climbers			
27	ZZCH7949	SILO CLIMBER (36in DECK)	1
28	ZZCH8289	RIBBON CLIMBER (36in DECK)	1
29	ZZCH8520	CASTLE CLIMBER (72in DECK)	1
Balance			
30	ZZUN7140	STATIONARY BUTTONS (12in)	2
31	ZZUN7146	STATIONARY BUTTONS (18in)	2
Audible Activities			
32	ZZCH4467	GROUND TO GROUND BABBLE-ON	1
33	ZZCH4556	7in BELL (POST MOUNT)	1
34	ZZCH4558	9in BELL (POST MOUNT)	1

Dragon's Lair

Design Number: 350-1810 - Bill Of Material

Ref. No.	Part No.	Description	Quantity
35	ZZCH4589	BELL PANEL (GROUND LEVEL)	1
36	ZZCH4607	CHIME PANEL (GROUND LEVEL)	1
37	ZZCH4649	POST MOUNT DRUM	1
Roofs & Arches			
38	ZZCH8500	CASTLE ARCH	8
39	ZZCH8506	CASTLE CAP	8
40	ZZCH8537	POST FLAG - CROWN	1
Additional Tool & Maintenance Kits			
41	ZZCHGUID	CHALLENGER GUIDELINES	1
42	ZZUN9910	SURFACING WARNING LABEL KIT	1
43	ZZUN9930	PIPE SYSTEMS MAINTENANCE KIT W/ AEROSOL	1

Dragon's Lair

Design Number: 350-1810 - Compliance and Technical Data

Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre-Consumer Recycled Content (lbs)	Post-Consumer Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
1	ZZCH0048	2	3.5in OD x 160in STEEL POST W/ RIVETED CAP	Certified	100.42			136	0	2.00	0.25	0
2	ZZCH0069	2	3.5in OD x 184in STEEL POST W/O CAP	Certified	113.42			146	0	2.00	0.25	0
3	ZZCH0258	1	3.5in OD x 224in STEEL POST W/CAP	Certified	65.51			93	0	1.00	0.13	0
4	ZZCH0259	6	3.5in OD x 224in STEEL POST W/O CAP	Certified	387.06			533	0	6.00	0.78	0
5	ZZCH0367	5	2ft POST EXTENSION FOOTER & CLAMP SUPPORT	Certified	66.45			106	0	1.25	0.00	0
6	ZZCH0616	1	SQUARE COATED DECK ASSEMBLY	Certified	54.86			174	3	1.00	0.00	0
7	ZZCH0618	1	1/2 HEX COATED DECK ASSEMBLY	Certified	78.32			252	4	1.50	0.00	0
8	ZZCH0629	1	LONG COATED DECK ASSEMBLY	Certified	107.02			318	6	1.00	0.00	0
9	ZZCH2007	1	TRANSFER STATION w/TALL GUARDRAIL (36in DECK)	Certified	148.40			310	2	2.00	0.09	0
10	ZZUN2019	1	APPROACH STEP FOR TRANSFER STATION	Certified	35.83			72	1	1.00	0.04	0
11	ZZCH3127	1	GLIDE SLIDE (36in DECK)	Certified	99.73			374	2	2.00	0.03	1
12	ZZCH3216	1	SLITHER SLIDE 2.0 BALCONY ENTRY/EXIT	Certified	162.06			633	2	2.50	0.03	1
13	ZZCH3540	1	SLIDE- NUVO 360 SPIRAL SLIDE - SERPENT	Certified	460.74			2,152	2	6.00	0.15	1
14	ZZCH8510	1	SLITHER SLIDE ENTRY/EXIT (CASTLE THEME)	Certified	92.99			675	2	2.00	0.03	1
15	ZZUN3207	1	SLITHER SLIDE 2.0 (STRAIGHT SECTION)	Certified	19.59			128	0	0.25	0.00	0
16	ZZUN3208	3	SLITHER SLIDE 2.0 (RIGHT SECTION)	Certified	58.77			401	0	0.75	0.00	0
17	ZZUN3209	1	SLITHER SLIDE 2.0 (LEFT SECTION)	Certified	19.59			134	0	0.25	0.00	0
18	ZZUN3218	3	SLITHER SLIDE 2.0 (LEFT 120° SECTION)	Certified	125.04			695	0	0.75	0.00	0
19	ZZUN3247	1	SLITHER SLIDE 2.0 SUPPORT LEG 5ft-6in	Certified	19.41			70	0	0.25	0.03	0
20	ZZUN3249	1	SLITHER SLIDE 2.0 SUPPORT LEG 3ft-6in	Certified	15.01			62	0	0.25	0.03	0
21	ZZUN3256	1	SLITHER SLIDE 2.0 SUPPORT LEG 2ft-6in	Certified	12.81			59	0	0.25	0.03	0
22	ZZCH4356	1	BALCONY	Certified	71.66			214	2	1.00	0.00	1
23	ZZCH4648	1	POST MOUNT SCAVENGER HUNT	Certified	15.86			264	3	2.00	0.00	1
24	ZZCH8516	2	CASTLE WINDOW BARRIER (DECK)	Certified	82.38			710	0	1.00	0.00	0
25	ZZUN4279	1	TELESCOPE PIPE WALL MOUNT (CH/EX)	Certified	12.23			61	1	0.50	0.00	1



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Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre-Consumer Recycled Content (lbs)	Post-Consumer Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
26	ZZCH5636	2	VERTICAL S ADVENTURE TUBE	Certified	264.04			2,112	6	6.00	0.00	2
27	ZZCH7949	1	SILO CLIMBER (36in DECK)	Certified	70.33			129	1	1.50	0.06	1
28	ZZCH8289	1	RIBBON CLIMBER (36in DECK)	Certified	35.02			101	2	1.50	0.06	1
29	ZZCH8520	1	CASTLE CLIMBER (72in DECK)	Certified	90.69			735	2	0.00	0.00	1
30	ZZUN7140	2	STATIONARY BUTTONS (12in)	Certified	54.24			179	2	1.50	0.26	2
31	ZZUN7146	2	STATIONARY BUTTONS (18in)	Certified	55.84			183	2	1.50	0.26	2
32	ZZCH4467	1	GROUND TO GROUND BABBLE-ON	Certified	43.15			240	2	1.50	0.00	1
33	ZZCH4556	1	7in BELL (POST MOUNT)	Certified	4.61			41	1	0.25	0.00	1
34	ZZCH4558	1	9in BELL (POST MOUNT)	Certified	6.21			45	1	0.25	0.00	1
35	ZZCH4589	1	BELL PANEL (GROUND LEVEL)	Certified	46.91			381	2	1.00	0.00	1
36	ZZCH4607	1	CHIME PANEL (GROUND LEVEL)	Certified	54.97			444	2	1.50	0.00	1
37	ZZCH4649	1	POST MOUNT DRUM	Certified	12.78			167	1	0.50	0.00	1
38	ZZCH8500	8	CASTLE ARCH	Certified	188.80			2,062	0	4.00	0.00	0
39	ZZCH8506	8	CASTLE CAP	Certified	26.80			374	0	2.00	0.00	0
40	ZZCH8537	1	POST FLAG - CROWN	Certified	12.30			129	0	0.25	0.00	0
41	ZZCHGUID	1	CHALLENGER GUIDELINES	N/A	0.00			1	0	0.25	0.00	0
42	ZZUN9910	1	SURFACING WARNING LABEL KIT	Certified	0.05			1	0	0.25	0.00	0
43	ZZUN9930	1	PIPE SYSTEMS MAINTENANCE KIT W/ AEROSOL	N/A				90				
Totals:					3,391.90	456	734	16,182	54	62.25	2.51	22
					1,526.36 Kg	205 Kg	330 Kg	16 Metric Tons				1.91 m3



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Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre-Consumer Recycled Content (lbs)	Post-Consumer Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
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ASTM F1487

The lay-out for this custom playscape, design number 350-1810, has been configured to meet the requirements of the ASTM F1487 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 ASTM F1487 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.

2010 ADA Standards for Accessible Design

The lay-out was also designed to meet the 2010 Standards published 15-Sep-2010, by the Department of Justice when installed over a properly maintained surfacing material that is in compliance with ASTM F1951 "Accessibility of Surface Systems Under and Around Playground Equipment" as well as ASTM F1292, "Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment", appropriate for the fall height of the structure.

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.

