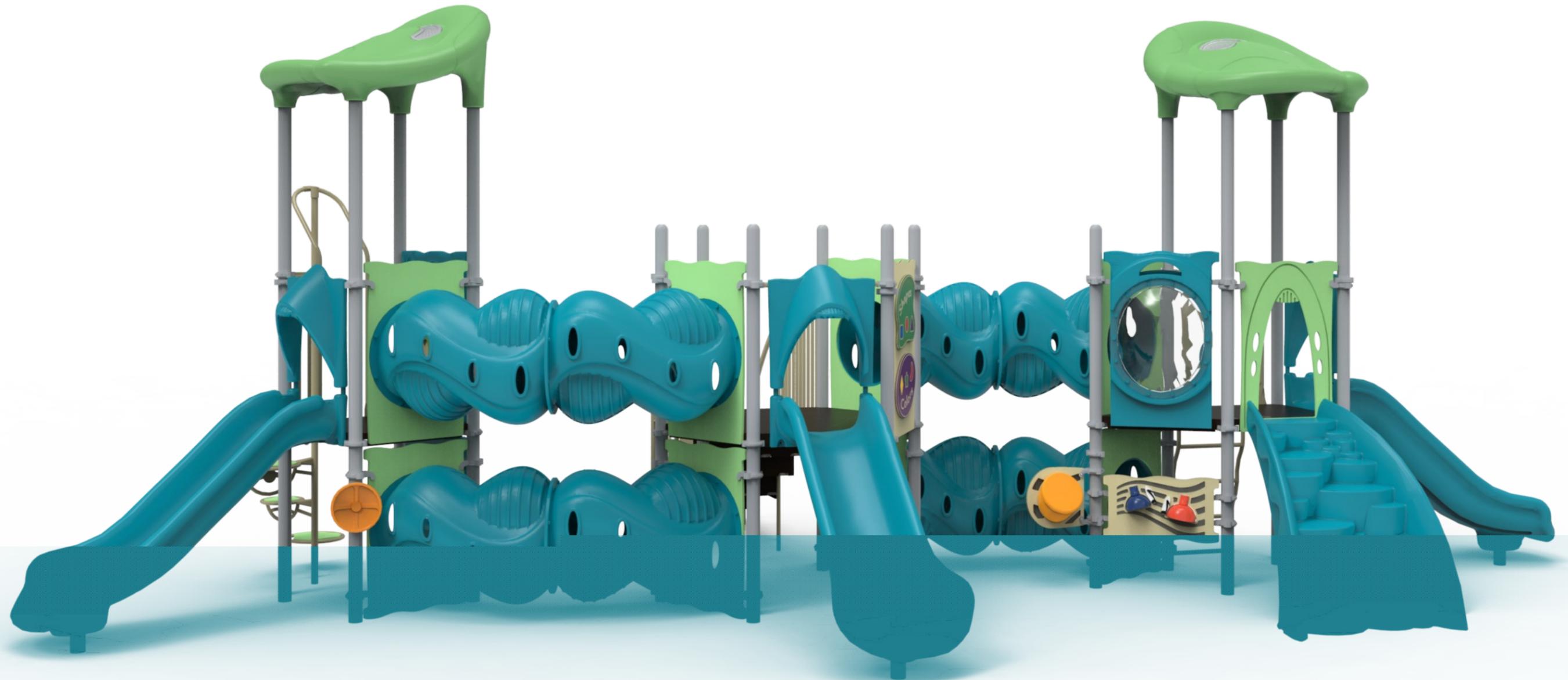


Tornado Alley

350-1635

Equipment Manufacturer

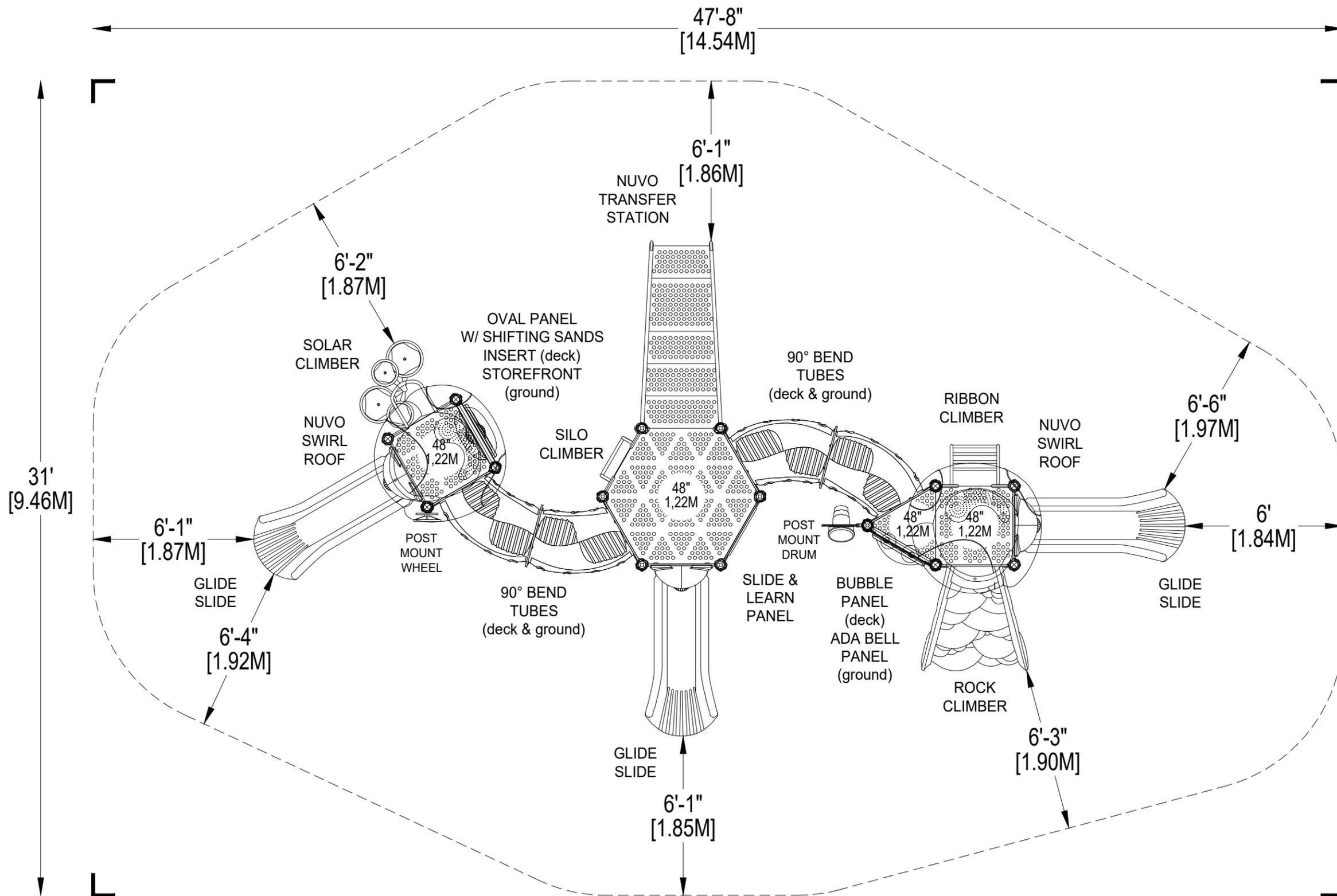


Tornado Alley

350-1635

Equipment Manufacturer





*PLAYGROUND SUPERVISION REQUIRED



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

EQUIPMENT SIZE:
35'5" x 18'10" x 13'7"
 10,8M x 5,74M x 4,14M

USE ZONE:
47'8" x 31'
 14,53M x 9,45M

AREA: **1,133 SqFt.** PERIMETER: **127 Ft.**
 105,26 SqM. 38,71M

FALL HEIGHT:
4 Ft.
 1,22M

USER CAPACITY: **58** AGE GROUP: **2-5**

ADA SCHEDULE	Total Elevated Play Activities: 11		
	Total Ground-Level Play Activities: 6		
	Accessible Elevated Activities	Accessible Ground-Level Activities	Accessible Ground-Level Play Types
Required	6	4	3
Provided	11	4	3

- ✓ ASTM F1487-17
- ✓ CPSC #325



PROJECT NO: 350-1635B	SCALE: 1/4"=1'-0"
DRAWN BY: M. MERTZ	Paper Size B
DATE: 07-FEB-18	

TORNADO ALLEY
 CATALOG PRE-DESIGN

Tornado Alley

Design Number: 350-1635B - Bill Of Material

Ref. No.	Part No.	Description	Quantity
Posts			
1	ZZCH0028	3.5in OD x 136in STEEL POST W/ RIVETED CAP	7
2	ZZCH0059	3.5in OD x 172in STEEL POST W/O CAP	8
Decks & Kick Plates			
3	ZZCH0616	SQUARE COATED DECK ASSEMBLY	2
4	ZZCH0617	TRIANGULAR COATED DECK ASSEMBLY	1
5	zzCH0619	FULL HEX COATED DECK ASSEMBLY	1
6	ZZUN2290	COATED DECK TO DECK CONNECTION KIT	1
ADA Items			
7	ZZCH0678	NUVO- 48in TRANSFER STATION	1
Slides			
8	ZZCH3126	GLIDE SLIDE (48in DECK)	3
Activity Panels			
9	ZZCH4290	POST MOUNTED STEERING WHEEL	1
10	ZZCH4446	SLIDE-N-LEARN PANEL	1
11	ZZCH4646	STORE FRONT PANEL	1
12	ZZCH4807	OVAL INSERT PANEL (DECK MOUNT)	2
13	ZZUN4796	OVAL BUBBLE PANEL INSERT	1
14	ZZUN4806	SHIFTING SANDS PANEL INSERT	1
Crawl Tubes			
15	ZZCH5637	HORIZONTAL S & 90 DEGREE ADVENTURE TUBE	2
16	ZZCH5657	HORIZONTAL S/90 DEG ADVENTURE TUBE (GROUND LEVEL)	2
Climbers			
17	ZZCH7439	ROCK CLIMBER (48in DECK)	1
18	ZZCH7658	SOLAR CLIMBER (48in & 42in DECK)	1
19	ZZCH7950	SILO CLIMBER (48in DECK)	1
20	ZZCH8290	RIBBON CLIMBER (48in DECK)	1
Audible Activities			
21	ZZCH4409	ACCESSIBLE BELL PANEL	1
22	ZZCH4649	POST MOUNT DRUM	1
Roofs & Arches			
23	ZZCH9868	NUVO SWIRL ROOF	2
Additional Tool & Maintenance Kits			
24	ZZCHGUID	CHALLENGER GUIDELINES	1
25	ZZUN9910	SURFACING WARNING LABEL KIT	1
26	ZZUN9930	PIPE SYSTEMS MAINTENANCE KIT W/ AEROSOL	1

Tornado Alley

Design Number: 350-1635B - 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	ZZCH0028	7	3.5in OD x 136in STEEL POST W/ RIVETED CAP	Certified	304.57			410	0	7.00	0.88	0
2	ZZCH0059	8	3.5in OD x 172in STEEL POST W/O CAP	Certified	412.88			546	0	8.00	1.00	0
3	ZZCH0616	2	SQUARE COATED DECK ASSEMBLY	Certified	109.72			348	6	2.00	0.00	0
4	ZZCH0617	1	TRIANGULAR COATED DECK ASSEMBLY	Certified	29.90			120	2	1.00	0.00	0
5	zzCH0619	1	FULL HEX COATED DECK ASSEMBLY	Certified	151.26			444	6	1.50	0.00	0
6	ZZUN2290	1	COATED DECK TO DECK CONNECTION KIT	Certified	0.29			4	0	0.50	0.00	0
7	ZZCH0678	1	NUVO- 48in TRANSFER STATION	Certified	299.54			563	3	3.50	0.12	0
8	ZZCH3126	3	GLIDE SLIDE (48in DECK)	Certified	359.19			1,475	6	6.00	0.09	3
9	ZZCH4290	1	POST MOUNTED STEERING WHEEL	Certified	7.83			44	1	0.25	0.00	1
10	ZZCH4446	1	SLIDE-N-LEARN PANEL	Certified	57.80			516	1	1.00	0.00	1
11	ZZCH4646	1	STORE FRONT PANEL	Certified	33.98			243	3	1.00	0.00	1
12	ZZCH4807	2	OVAL INSERT PANEL (DECK MOUNT)	Certified	56.32			421	0	1.00	0.00	0
13	ZZUN4796	1	OVAL BUBBLE PANEL INSERT	Certified	5.87			114	0	0.50	0.00	0
14	ZZUN4806	1	SHIFTING SANDS PANEL INSERT	Certified	22.97			256	1	0.50	0.00	1
15	ZZCH5637	2	HORIZONTAL S & 90 DEGREE ADVENTURE TUBE	Certified	264.04			2,013	8	6.00	0.00	2
16	ZZCH5657	2	HORIZONTAL S/90 DEG ADVENTURE TUBE (GROUND LEVEL)	Certified	265.32			2,124	8	4.00	0.00	2
17	ZZCH7439	1	ROCK CLIMBER (48in DECK)	Certified	136.38			555	3	2.00	0.03	1
18	ZZCH7658	1	SOLAR CLIMBER (48in & 42in DECK)	Certified	91.33			265	2	1.50	0.03	1
19	ZZCH7950	1	SILO CLIMBER (48in DECK)	Certified	74.18			134	1	1.50	0.06	1
20	ZZCH8290	1	RIBBON CLIMBER (48in DECK)	Certified	38.72			110	2	1.50	0.06	1
21	ZZCH4409	1	ACCESSIBLE BELL PANEL	Certified	22.16			211	1	0.50	0.00	1
22	ZZCH4649	1	POST MOUNT DRUM	Certified	12.78			167	1	0.50	0.00	1
23	ZZCH9868	2	NUVO SWIRL ROOF	Certified	160.66			965	0	2.00	0.00	0
24	ZZCHGUID	1	CHALLENGER GUIDELINES	N/A	0.00			1	0	0.25	0.00	0
25	ZZUN9910	1	SURFACING WARNING LABEL KIT	Certified	0.05			1	0	0.25	0.00	0



Tornado Alley

Design Number: 350-1635B - 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
26	ZZUN9930	1	PIPE SYSTEMS MAINTENANCE KIT W/ AEROSOL	N/A				90				
Totals:					2,917.74	343	573	12,136	55	53.75	2.26	17
					1,312.98 Kg	154 Kg	258 Kg	12 Metric Tons				1.72 m3



Tornado Alley

Design Number: 350-1635B - 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
----------	----------	------	-------------	------------------	--------------------	-------------------------------------	-----------------------------	----------------------	-------	---------------	-----------------	--------------------

ASTM F1487

The lay-out for this custom playscape, design number 350-1635B, 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.

