

## **Standards And Specifications**

For Slides From

### **SUMMIT-USA**

All of SUMMIT-USA's products meet the requirements set forth in **ASTM F1487-01, Standard Consumer Safety Performance Specification for Playground Equipment for Public Use**, and adopted by the **United States Consumer Product Safety Commission**. Our slides also meet the standards of **Code of Federal Regulations, 16CFR Part 1207, The Safety Standards For Swimming Pool Slides** published by the **USCPSC** and adopted by **National Spa and Pool Institute (NSPI)** (except where superceded by ASTM F1487-01).

Plastic portions of the slides are Rotationally Molded of Linear Low Density Polyethylene (LLDPE) with ultraviolet inhibitor and anti-static additives. The pigments used for coloring also contain ultraviolet inhibitors to prolong their life. Most of the rotomolded polyethylene parts have a nominal wall thickness of 0.25".

Plastic decks are supported by metal framing, are designed to be self-bailing, and have an OSHA approved non-slip pattern molded into the walking area.

Ladders, steps, and rungs are extruded of 6061 T-6 aluminum, 0.188" thick, Heliarc welded for strength, with a non-slip pattern in the tread. Spiral treads are cast aluminum and heat treated or aged before finishing. These parts are powder-coated with polyester paint for appearance. The Aqua Deluxe ladder has a kick panel to close the back of the steps and spiral stairs have optional riser closers.

1-3/8"od handrails are extruded of 13ga (0.095" wall) 6061 T-4 aluminum and are powder-coated for appearance.

1.9"od posts are 14 ga (0.083" wall) steel, galvanized, primed, and powder-coated for appearance and protection.

3.5"od posts are 11 ga (0.120" wall) steel, galvanized, primed, and powder-coated for appearance and protection.

5"od posts are 11ga. (0.120" wall) or 7ga (0.180" wall) steel, galvanized, primed, and powder-coated for appearance and protection.

Fasteners are 18-8 Stainless Steel in most instances. Exceptions are:

- Slide section connecting bolts in the Adams series are plated steel.

- Connector bolts for the Cascade Ladder System deck cover/deck frame are plated steel.

- Tubing connectors inserted into pipe ends are spring-steel with a 'cold-galvanize' coating.

- Some joint fasteners in the Cyclone series are nylon.

## RECOMMENDED SLIDE WEIGHT LIMITATIONS

All slides have weight limits. All of Summit-USA's slides are commercial grade; meaning that they are designed for constant use, rather than the occasional use that is expected of a residential grade slide. Summit-USA's slides are manufactured using polyethylene. This material becomes extremely slippery when it is wetted, hence, very fast. Some configurations may be unsuitable for the intended users and should be carefully considered. The longer the slide, the faster the ride.

Some of the factors governing speed are slider's body mass and apparel, air and material temperature, bedway water quality and quantity, & etc. There are other factors that set the absolute weight limits, but these are best determined on a case-by-case basis.

The upper weight limit is generally determined by the size of the slide's bedway. For instance, the Aqua Deluxe series may be capable of handling six hundred pounds, but a six hundred pound person would not fit into the 23-inch wide bedway.

**The lower weight limit is most important.** A lightweight child will not "sit" well into the slide and can, in some cases, ride too high in the turns. This increases the possibility of his being ejected from the slide.

Manufacturers recommended weight limitations are;

	<u>Upper</u>	<u>Lower</u>	
Aqua Deluxe Series:			
PS270	400 lb	35 lb	
PS360	400 lb	35 lb	
PS450	400 lb	50 lb	
450 w/extendere	400 lb	40lb	
PS630	400 lb	40 lb	w/Rail Extenders
PS720	400 lb	80 lb	w/Rail Extenders
Toddler Slides:			
Banana Slide	250 lb	20 lb	
Adams	250 lb	20 lb	
Baker	300 lb	20 lb	
Adams Series:			
4 foot high	250 lb	30 lb	
5 foot	250 lb	60 lb	
6 foot	250 lb	80 lb	
7 foot	250 lb	80 lb	
Baker Series:			
4 foot	300 lb	30 lb	
5 foot	300 lb	30 lb	
6 foot	300 lb	40 lb	
7 foot	300 lb	40 lb	
Cyclone Series:			
All	400 lb	30 lb	

Slide speed is affected by many factors, slider's mass being only one. The weight limits listed are recommended.

### **Custom designed slides must be rated individually.**

The custom slide designed for \_\_\_\_\_  
 and to be installed at \_\_\_\_\_  
 has an upper weight limit of \_\_\_\_\_ and a lower weight limit of \_\_\_\_\_.