

## **GENERAL PRODUCT SPECIFICATIONS**

**POWDER COAT FINISH:** Shall be an electrostatic ally applied TGIC polyester powder. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0-5.0 mil thickness and oven cured between 375 to 400 degrees Fahrenheit, Pencil Hardness H (ASTM D-3363), Abrasion (ASTM1907), Impact (ASTMD-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-33549 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2242, Salt Spray ASTMB-117 & Fathometer 300 hrs. with no loss of gloss), Over bake Stability 100% at 400 degrees Fahrenheit.

**COMPONENT STEEL TUBING:** All tubing used to manufacture components shall be electrical resistance welded, cold rolled, high strength steel. Properties of each size are listed below. The Exterior coating will consist of an in line hot-dipped uniform zinc galvanizing, chromate conversion, and acrylic over – coating. The interior coating will consist of special organic acrylic modified polyester:

<b><u>DESCRIPTION</u></b>	<b><u>OUTSIDE DIAMETER</u></b>	<b><u>INSIDE DIAMETER</u></b>	<b><u>GAUGE</u></b>	<b><u>YIELD PSI</u></b>	<b><u>TENSILE PSI</u></b>
1 ¼" Sch. 40 Pipe	1.660"	1.380"	-	50,000	55,000
1 ½" Sch. 40 Pipe	1.900	1.600"	-	50,000	55,000
2" Sch. 40 Pipe	2.375"	2.107"	-	50,000	55,000
3" Sch. 40 Pipe	3.500"	3.068"	-	50,000	55,000
0.750"OD Tube	0.750"	0.652"	18	45,000	48,000
1.029"OD Tube	1.029"	0.8363"	14	50,000	55,000
1.315"OD Tube	1.315"	1.075"	12	60,000	75,000
1.660"OD Tube	1.660"	1.420"	11	60,000	75,000
1.900"OD Tube	1.900"	1.660"	11	60,000	75,000
2.375"OD Tube	2.375"	2.107"	10	50,000	55,000
5"OD Tubing	5.000"	4.760"	11	45,000	48,000

**HARDWARE:** All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment shall be yellow dichromate plated steel, stainless steel, mechanically or powder coated/yellow dichromate plated steel. Yellow dichromate treatment includes an elector-deposited 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. Hardware shall be tamper resistant.

**ALUMINUM SPIRAL SLIDES:** The chute shall be .125" thick type 3003H14 aluminum with a minimum Tensile Strength of 22,000 psi and a minimum Yield Strength of 21,000 psi. This material shall meet or exceed the following specifications: ASTM B209, QQA 250/2. The aluminum slide shall be coated with a TGIC polyester powder coating in conformance with the specifications outlined herein. Solid and continuous aluminum chute walls shall be .125" thick, reinforced by 1.0625" diameter safety railings. The sidewalls shall spiral from 9" to 16" high. The entry shall be 1/8" non-slip aluminum deck plate over 1/8" thick aluminum sheet formed with a 31" high safety enclosure. The support mast shall be one piece made of 5" Schedule 40 pipe (5.563 outside diameter and .258 wall). The chute exit shall be double wall construction.

Vertical Support 1.5" Sch. 40

MS60

Tenzalloy 713 high strength aluminum casting  
weld stainless steel plate with nipples to attach casting  
All stainless steel hardware  
2" x 5" approximate size with 1" molded ball for MS61 joint  
Ball joint allows for seismic, vibration or functional motion from slide

MS61

Tenzalloy 713 high strength aluminum casting  
Molded receiver for MS60 ball compression fitting  
Schedule 40 1.5" post used to attach 1.875 OD support column  
Approximate 5" width x 6" length  
Compression casting at column insertion

Base Flange for floor footings Malleable Steel, Sch.40 for 1.5" vertical pipe, 5" dia.