

# **SPECIFICATIONS FOR KIDSTUFF PLAYSYSTEMS COMPONENTS**

## **Model 7485**

### **Toddler to Age 5 Playsystem, 3.5"OD Posts, Plastic Decks**

**POWDER-COATING:** Powder-coating is a scratch and chip resistant, extremely UV-stable outdoor polyester finish that retains its bright, colorful appearance for years. All steel tubing in the Kidstuff series is powder-coated over galvanizing for additional rust protection. Welds are treated with a zinc-rich powder, oven treated before the color coat. Powder-coating is oven-baked until cured. Powder thickness depends on color, but minimum thickness is 2.8 - 3.0 mils. Every metal part in any Kidstuff playstructure is powder or "plastisol" coated (excluding swing chain and galvanized bridge support elements).

**CLAMP:** The Kidstuff clamp is die cast from aluminum alloy in the USA and then powder-coated. The clamp incorporates a molded-in socket to encompass each pipe end. Clamp halves attach with 5/16" x 1-1/4" socket-head bolts and nylon lock nuts. Pipe end is held in the clamp socket by a 3/8" x 1/2" setscrew. Stainless expansion pins (1/4" x 3/4" to 2") driven through the socket and into the pipe provide additional retention security for components where pull-out could compromise safety or structural integrity. Hardware is stainless steel and is tamper-resistant. Every clamp is also secured to each post with pins (above) at job conclusion to prevent slippage or rotation

**FASTENERS:** Tamper resistant hardware is used throughout every Kidstuff system. Fasteners meet or exceed requirements of ASTM 1487-11 section 4. 2ff. Stainless steel hardware is used almost exclusively (99.5% of applications).

**STEEL TUBING:** Throughout all Kidstuff structures tubing is high-strength steel, galvanized, with a zinc-coated interior. After component fabrication all welds are prefinished with baked-on, zinc-rich polyester powder prior to final color-coat powder application. Outside diameter (OD) is noted in individual specifications. Typically, 1.16" OD tubing is a min. 17 ga., 1.31" OD and 1.50" is a min. 14 ga., 1.90" OD and 2.38" OD are min. 13 ga. Where heavier tubing is employed it is mentioned in the specifications. All tubing is AMERICAN MADE and meets or exceeds applicable ASTM specifications.

**BALL MIXER PANEL:** Computer-generated, bi-color, UV-stabilized HDPE plastic panel, 3/4" thick, features a plexiglass bubble full of colorful plastic balls that spin and roll as children rotate an internal paddle. Height is sized for ages 2-5 or 2-12. May be used on or under decks, or as a free-standing play event.

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**POSTS:** 3-1/2" OD galvanized high-strength steel tubing 13 gauge; yield strength: 45,000 psi (min); tensile strength: 48,000 psi (min). Posts are cut to length before powder-coating. Posts meet or exceed all applicable ASTM standards. Some applications require 11 ga. or 8 ga. posts—these are noted in specifications. 5" OD posts as above, but 11 ga. rather than 13 ga.

**PLASTIC DECKS:** Square and triangular double-walled decks are rotationally molded of UV-stabilized, high-density polyethylene (HDPE), walls a min. 1/4" thick. Square decks measure 38-1/4" x 38-1/4". Triangle decks are 38-1/4" x 38-1/4" x 52 3/8". All decks incorporate molded-in reinforcement on the bottom for added strength and rigidity. Deck color is stabilized with the use of ultraviolet inhibitors. Holes in each corner of decks allow posts to pass through a molded-in hole, creating extraordinary toughness and durability in a part designed to provide gentle, kid-friendly impacts for the inevitable bumps and falls on equipment.

**CRAWL TUNNEL:** All plastic components of rotationally-molded, UV-stabilized HDPE plastic (nom. wall thickness of 1/4"). Two or more straight or curved 24" flanged tubes are connected together to form tunnel. When accessed from play structures each end of tunnel is typically connected to and supported by a double-walled, rotationally-molded, UV-stabilized HDPE plastic panel (nom. nominal wall thickness of 1/4"). In most applications in which tunnels are free-standing on one or both ends, flanges are extended for additional rigidity and these end panels are not used. Free end of tunnel is supported with 1.31" OD "saddle" welded to 1.90" OD tubing legs.

**STOREFRONT:** Store counter and sign are computer generated of 3/4" HDPE. Steel decks: steel frame supporting store has two 2.38" OD legs which anchor directly to subgrade. Sign affixes to metal deck above counter. Plastic decks: Counter slides over post, supported by steel frame attached to clamps on each post. Sign attaches to flanges affixed to posts.

**CLOWN/GEAR PANEL:** Computer generated, bi-color, UV stabilized HDPE plastic panel, 3/4" thick, with clown design on one side and 4 gears for your little ones to manipulate on the other side.

**POST CAP FOR 3-1/2" OD POST:** Shatter-proof caps are injection-molded of polypropylene. Unique "one-way" design provides a tight fit while preventing removal.

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**MIRROR PANEL:** Consists of two 1/4" mirror-finish acrylic (plexiglass) disks affixed back-to-back to a double-walled, rotationally-molded, UV-stabilized HDPE plastic panel with a wall thickness of 1/4". Assembly is 38 1/2" H. x 30" W. x 3 1/4" and is clamped to posts with 1.16" tubing passing through the hollow core of the panel. May be used on or under decks, or as a free-standing play event.

**PUZZLE ROOF:** Constructed of multi-colored, computer-cut gables, fascia and sheets of giant puzzle piece-shaped 3/4" and 1/2" UV-stabilized HDPE. Parts bolt to steel channel brackets for added rigidity. Assembly rests on all aluminum roof caps which slide over post tops and are secured with stainless fasteners.

**TEDDY BEAR/GEAR PANEL:** Computer generated, bi-color, UV stabilized HDPE plastic panel, 3/4" thick, with clown design on one side and 4 gears for your little ones to manipulate on the other side.

**CHIME PANEL:** Fabricated of 3/4" UV-stabilized HDPE plastic with 1" OD aluminum chimes suspended on stainless wire. 1/2" HDPE panels cover attachment hardware on each side. A steel and plastic mallet attached with 1/4" stainless aircraft cable is used to strike chimes and create musical notes. Height is sized for ages 2-5 or 2-12. May be used on or under decks, or as a free-standing play event.

**FIRE ENGINE PANEL:** Computer-generated, bi-color, UV-stabilized HDPE plastic panel, 3/4" thick, creates a striking depiction of a fire engine in a brilliant red. Back of panel features a dashboard with a virtually unbreakable HDPE plastic wheel, 13" diam. Wheel attaches with 1/2" d. stainless steel button-head bolt and nylon locknut. May be used on or under decks, or as a free-standing play event.

**CLOCKWORK GEAR PANEL:** Computer-generated, bi-color, UV-stabilized HDPE plastic panel, 3/4" thick, with hands moved by real clockwork gears of 1/2" HDPE. Clockwork is encased in 1/4" nominal acrylic plastic bubble and rotated with an external knob. Little hand moves one hour for every full rotation of minute hand. May be used on or under decks, or as a free-standing play event. Not recommended for playgrounds with unrestricted 24 hour access.

**GRAB RAILS:** Loop-shaped safety grabs are 1.16" OD tubing, powder-coated after fabrication, sized and positioned on structures to meet standards for ages 2-5, 2-12, or 5-12. When placed on decks which require barriers, these grabs are designed to prevent children from passing under or through them.

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**DRIVER PANEL:** Computer-generated bi-colored, UV-stabilized, HDPE panel, 3/4" thick. Front shows car radiator and headlights. Opposite side features a dashboard with a virtually unbreakable HDPE plastic wheel, 13" diam. Wheel attaches with 1/2" d. stainless steel button-head bolt and nylon locknut. Height is sized for ages 2-5 or 2-12. May be used on or under decks, or as a free-standing play event.

**TINY TOT 12" CHUTE SLIDE:** Meets ASTM Standards for ages 6-23 months and for ages 24 months to 5 years. Steel and plastic construction. Sidewalls, bedway and entry panel are 3/4" and 1/2" HDPE solid plastic panels with high strength steel tubing connectors. Entry deck is 24" (unit is compliant for 22"-30" decks). Slide width is 12" (inside) and length is 60".

All play equipment that children play on shall be in compliance with the current ASTM F-1487 Standard, and with the current Consumer Product Safety Commission Guidelines, with evidence provided with the bid. The play equipment manufacturer shall be ISO 9001-2008 certified.