

# **SPECIFICATIONS FOR KIDSTUFF PLAYSYSTEMS COMPONENTS**

Model 7368-02

Ages 5-12 Playsystem, 3 1/2" OD Posts, Steel 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.

**OVERHEAD LADDER:** Constructed of 1.90" OD, 10 ga. tubing side rails with 1.16" OD rungs spaced 14" apart. Attaches at each end to 3 1/2" posts if used as a connecting event, or attaches at freestanding end to ladder frame of 1.90" OD tubing. Ladder is 10' long.

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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.

**SQUARE STEEL DECK:** Fabricated of 12 ga. Punched steel, reinforced with 2 1/2" x 10 ga. Ribs and 7 ga corner brackets, "rolled bottom edges, "plastisol" dipped after fabrication. All steel decks mount to posts 46 1/4" o.c. Square decks are 47 1/4 x 47 1/4". Approximate area is 15 1/2 sq ft

**TRIANGLE STEEL DECKS:** Fabricated of 12 ga. Punched steel, reinforced with 2 1/2" x 10 ga. Ribs and 7 ga. Corner brackets, "rolled" bottom edges, "plastisol"-dipped after fabrication. All steel decks mount to posts 46 1/4" o.c. Triangle decks are 47 1/4" x 67", Approx. area is 8 sq. ft. Equilateral triangle decks are 48" "corner-to-corner." Approx. area 7 sq. ft.

**HEX DECKS:** Fabricated of 12 ga. punched steel, reinforced with 10 ga. ribs 2 1/2" high. Corners are reinforced with 8 ga. steel. Deck edges are "rolled" on the bottom for added strength and safety. Unit is "plastisol"-dipped after fabrication. Deck mounts to posts 46 1/4" o.c. with aluminum clamps or one-piece aluminum collars. Hex decks measure 83 1/4" across, 93 1/2" "corner-to-corner;" approx. 40 sq. ft.

**TRANSFER MODULE:** Fabricated of 12 ga. punched steel, dipped in "plastisol" after fabrication. Step size and height comply with ASTM guidelines for transferring from a wheelchair to a playstructure.

**ARCH BRIDGE:** Bridge is fabricated of 12 ga. punched steel, dipped in "plastisol" after fabrication. Barriers have 1.50" OD tubing top rails. The rest of the barrier is a 14 ga. x 1.16" OD , powder-coated frame which secures two UV-stabilized high-density polyethylene panels. Two lengths are available: 4' & 8'. Barriers for 4' bridges have a single panel

**WACKY CLIMBER:** Small triangular steps of 1.31" OD steel tubing form an ascending helix around the 1.50" OD center pole of this J-frame climber. Attaches to center of deck opening. 10 ga. Bracket attached under deck stabilizes assembly.

**COMBO SLIDE:** Combo slide is a Kidstuff Playsystems exclusive: side by side bedways, each with a different ride: one a straight slide, the other a wave slide. Double-walled rotational-molded, UV- stabilized HDPE with a nominal wall thickness of 0.30". Slide is 8' long and works from decks 42" to 52" high.

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**RING TREK:** Top beam is 2.38" OD tubing, 10 ga. "S"-hooks attach to a pair of 4/0 galv. chain links, secured to beam by clevis through oil-impregnated bronze bushing. Rings of cast, highly-polished aluminum attach to "S"-hooks. Attaches at each end to 3 1/2" posts whether used as a connecting or freestanding event, or with one end to playstructure. Ladder is 118" long.

**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.

**ZIG ZAG WALL:** Computer-generated, bi-color, UV-stabilized HDPE plastic panels, 3/4" thick are attached with 3/16" steel flanges to 3 1/2" OD posts. Upper panels provides handholds as children as they use footholds in lower panels to traverse across from post to post. Adjacent pairs of panels allow children to add elevation as they move horizontally. Multiple panels may used to span a distance of any length. Use as a connector, with one end to deck, or completely freestanding.

**ADA TRANSITION STEPS:** Deck-to-deck steps 14" deep, 24" wide, and 8" high, compliant with ADA. Steps are fabricated of 12 ga. punched steel, dipped in "plastisol" after fabrication. Barrier rails on each side of steps are 38" high with a 1.31" OD handrails and UV-stabilized HDPE enclosure panels.

**CHINNING OR TURNING BAR:** 1.162" OD tubing, 14 ga. For applications for children aged 2-12 and 5-12 Chin Bar is 1.31" OD tubing. Height at direction of customer or 84" maximum.

**CHAIN NET CLIMBER:** Chains are vertical, 4/0 galvanized, welded link, with horizontal rungs of 1.16" tubing welded to links, coated with "plastisol" after fabrication. Unit attaches to 1.90" OD tubing frame and anchors below grade; 3/8" galv. S-hooks at top and bottom

**FIREPOLE:** J-shaped pole is fabricated from 1.90" OD tubing extending 60" above deck. Unit attaches to center of deck opening. 10ga. Bracket attached under deck stabilizes assembly. Not recommended for children under age 5.

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**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.

**PIPE WALL:** Constructed with a 14 ga. 1.16" OD tubing frame with bars of 1.16" OD tubing, 17 ga. Height is sized for ages 2-5 or 2-12.

**TIC TAC TOE:** Cylinders are rotationally-molded, UV-stabilized, HDPE with molded-in graphics. Pipe frame is 1.16" OD tubing, powder-coated after fabrication. Steel deck systems and platforms above 48" have blocks framed by a 3/4" HDPE computer-generated panel. Two graphics options are available: X's and O's or a pair of colorful cartoon dinosaurs. May be used on or under decks, or as a free-standing play event

**SNAKE CLIMBER:** Loops fabricated of 1.31" OD galvanized steel tubing bent and welded to a 1.90" OD "J"-frame stem form a snake-like design. Loops stop at deck height. One-piece welded unit attaches to center of deck opening. 10 ga. Bracket attached under deck stabilizes assembly.

**TRI-RIDE SLIDE:** Slide is a one-piece, triple bedway slide, 128" long, designed for a 72" high deck. It has double walls of rotation-molded, UV-stabilized HDPE, each wall approx. 1/4" thick. Each of the 3 bedways provides a different ride: straight and smooth, wavy, or rippled.

**CLIMBING WALL:** Computer-generated UV-stabilized HDPE plastic panel, 3/4" thick, with hand grips as well as holes for gripping and foot placement. Designed to work with decks from 54" to 72" high.

**PLASTIC SLIDES:** All plastic slides are double-walled, rotationally-molded with a nominal wall thickness of 1/4", manufactured with UV-stabilized HDPE. Color is stabilized by ultraviolet inhibitors.

**CRUNCH BAR:** One-piece C-shaped crunch bar of 1.16" OD tubing, 17 ga., attaches to post with aluminum clamps. Geometry assures that unit cannot pull free. May be set at any height (Guideline maximum is 84".)

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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.