

SPECIFICATIONS FOR KIDSTUFF PLAYSYSTEMS COMPONENTS

Model 7478

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

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.

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.

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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TRACK RIDE: Powder-coated steel track, 10' long. Track attaches at each end to 1" x 3" rectangular aluminum box beams, 1/4" thick. Powder-coated steel trolley rides on high-end composite roller-skate wheels. Handle on trolley is a 1 1/4" OD flexible, soft rubber tube with galvanized chain core. End of unit is accessed by deck(s) or by one or more 14" x 60" step-up frames of 1.16" OD, 17ga tubing. Frame is clamped to one of the 3 1/2" endposts.

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.

STEP CLIMBER: Upper frame is fabricated of 10 ga. 1.90" OD tubing with steps 14 ga 1.31" OD tubing. Steel Decks: Climber is secured and pinned to clamps attached to 3 1/2" posts at each end. Plastic decks: "J"-frame top bolts to deck as on Snake and Coil Climbers. Bottom of climber attaches with clamps to 3 1/2" post.

COIL CLIMBER: Helical coil, 16 1/2" OD with a 12" pitch (1 turn/foot), is formed from 1.315" OD tubing. Coil climbs 1.90" OD "J"-frame stem and stops at deck height. One piece welded unit attaches to center of deck opening. 10 ga. Bracket attached under deck stabilizes assembly.

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.

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.

TURNING WHEELS: Wheels are fabricated of 1.31" OD and 1.16" OD tubing, 26" in diameter. Top beam is 2.38" OD steel tubing, 10 ga. Wheels suspended from the top beam by 1 1/4" solid steel shaft on bronze bearings. Assembly is done at factory.

LOOP OVERHEAD LADDER: Top beam is 10 ga., 2.38" OD tubing; loops are formed from 1.16" OD tubing and fillet-welded to top beam. Curved O/H Loop Ladder has 1.90" OD x 10 ga. intermediate support leg. 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 119" long.

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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

LOG ROLL: Rotation-molded, UV stabilized HDPE, 48" long; 15" in diameter; nom. 1/4" thick. "Log" is supported by 1.90" OD tubing secured to 3 1/2" vertical posts with clamps. Grab rails are 1.16" OD tubing. All steel components powder-coated after fabrication

CURVED BALANCE BEAM: 2" x 3" galvanized rectangular steel tubing, 14 ga., 8' long. Non-skid surface applied to beam surface. One-piece welded unit sits 6"-16" above safety surface on 2 legs of 1.90" OD galv. tubing, powder-coated after fabrication. A 12' long curved balance beam (with three support legs) is available.

STEPPING POD WALK: Movable, suspended, rotation-molded stepping pods vary in height to form a bridge between or out and away from decks. Overhead support frame is fabricated of 2" x 2" x 9' galv. square steel tubing, 12 ga. Step support poles are 1.50" OD and 88" tp 91" long or 76" to 79" long, depending on access deck height. To limit range of motion of each step, the bottom of each support pole is shackled to 1/4" , grade 30 chain and secured to a none-piece galvanized and powder-coated steel frame anchored below the safety surface.

STEPPING POD: Double-walled, rotationally-molded, UV-stabilized HDPE plastic with a nominal wall thickness of 1/4", 14" diameter, o/a height 6 1/8". Mounts in ground to buried stem or onto support poles in Stpping Pod Walk.

CURVED OVERHEAD LADDER: Constructed of 1.90" OD, 10 ga. tubing siderails with 1.16" OD rungs. Used as connector it attaches at each end to 3 1/2" posts; intermediate legs are 1.90" OD tubing. Fittings are galvanized malleable iron. End ladder (used for free end when not used as a connecting feature) uses 1.90" OD uprights with 1.16" OD rungs

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.

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LOOP ARCH CLIMBER: Steel frame of 1.90" OD tubing angles up and over to deck to provide an arch up to structure comprising looped rungs of 1.31 OD galv. tubing, 24" wide. Frame attaches to barriers which reduce opening width at deck entry point.

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.