

Folding Chair Specifications-Model ABS700/ArcBac Series or Approved Equal

General Requirements

A. Folding portable chairs covered herein are to be of heavy-duty commercial types, designed and manufactured to withstand rough usage and handling in auditoriums, arenas, convention centers, and any place for public assembly.

B. These specifications cover minimum standards, and any alternate types offered should have similar design and construction features herein specified. The owner shall have the sole responsibility to determine comparative design and construction features, quality, durability, comfort, ease of handling and storage. The purchaser shall decide which chairs will best serve from the standpoint of price, quality, delivery, and suitability for intended purpose.

C. The provider shall be experienced in the manufacture of portable chairs for all types of venue usages.

Type and Quality of Materials

All materials furnished shall be new and unused, most updated design, and of first-class workmanship. Chairs shall be of double tube and channel steel construction with welded interlocking devices, supporting fully upholstered foam padded seat, and padded backrest. Seat shall rise independent of chair folding action.

Description and Quantity

Chairs:

ABS700	Qty.
ArcBac Series Folding Chair or Approved Equal, Ganging Brackets, Front "K" Brace, 3" Foam Cushion Sewn Seat, Independent Uplift Seat, Powder Coat Frame Color – Black; Fabric Color / Type - Maroon Includes Removable Ad Bumper Strip Includes Removable Armrest with Cup holder	800
ABS700	700
ArcBac Series Folding Chair or Approved Equal, Ganging Brackets, Front "K" Brace, 3" Foam Cushion Sewn Seat, Independent Uplift Seat, Powder Coat Frame Color – Black; Fabric Color / Type - Maroon Includes Removable Ad Bumper Strip	
TS100	30
Truck Series Stacking / Pallet Chair Storage Cart, Black Powder Coat Finish	
** Includes Starter Blocks (1 for every 3 carts) **	

Model/Chair Summary

Chairs to be furnished shall be Model No. ABS700 ArcBac Series Folding Chair with welded interlocks, as based on the quality workmanship, materials, and manufacturing skills of Spec Seats, or approved equal. The proposed folding chairs shall be of X-Frame design, where, the short leg crosses the main frame (long leg) of the chair to form an "X". The main frame, short legs, and cross-braces of the chair shall have two (2) outside roll formed tubes with a flat surface down the center to give a rigid yet flexible design for the chair to rest evenly on all four (4) legs so as to compensate for the irregularity of flooring surfaces. The contoured metal back panel has a flange on the top which is spot welded securely to the main frame and has a smooth rolled formed tube on the underside for added strength, comfort, and ease of handling. The chair design and configuration of the roll formed steel allows for compactness of fold when folded for storage, however, with upholstered seat and back shall be approximately 5", and save the owner greater storage space versus the "Y" frame folding chairs and stack chairs. The on center dimension for a no-arm chair shall not exceed 18-1/4". The height of the chair from the top of the back panel to the flooring surface shall not exceed 40" and 33" when the chair is in the open position. The chair shall be completed with the upholstery on the seat and back cushions as specified by the owner. Each chair shall weigh approximately 21lbs.

Chair Frame

The X-Frame design includes the main frame/long legs, separate short legs, and cross-braces all of which shall be made from no less than 18 gauge galvanized steel as configured by using a special roll form machining process in order to complete a single piece consisting of two (2) outside roll formed tubes with a flat surface down the center. The formation of the outside steel tubes shall be rolled tightly and evenly for rigidity purposes. The benefit of the flat center surface is to best accommodate the spot welding for all reinforcing braces and/or utilize riveting attachments for strength and flexibility purposes. Between the roll-formed double tube is a patented molded channel bumper insert (colors per customer selection) extending from the top of the ganging bracket over the top of the long leg frame (metal back) to the ganging bracket on the opposite side shaped with tapered ends for a snap in and secure fit. (Chair pitch optional – relaxed / concert / erect - dining)

Chair Legs

Front leg frames shall be braced by a single 18gauge galvanized steel cross-brace welded to the chair leg approximately 11" above the floor surface for frame rigidity, to support the rear legs in the open position, and provide feet spacing clearance. Additional front leg reinforcement and feet spacing is enhanced by 11 gauge flat steel brackets riveted to each front leg and the common cross-brace between the legs to form an angular type (K-Brace) support.

Back leg frames shall be braced by two steel embossed cross-braces that match the chair design and are spot-welded between the rear legs for frame rigidity, strength, and support. With the frame in the open position the top of the bottom cross-brace is located approximately 4" above the floor surface to assist feet spacing.

Each pair of front and back legs (with the welded rear leg extension attachment) are all connected by a rivet (for open/closed position), the ends of the "U" shaped flat metal bracket is riveted through/attached to the rear leg extension piece forming a seat support system and stop for the chair in the open position, and finally the durable rubber cushion silencing bumpers shall be inserted/riveted firmly on the "U" shaped top of the rear leg extensions pieces.

Seat Frame

Seat frame shall fold independently of chair frame fold action and shall rotate through the seat hinge points from the open position to the up position that parallels the main front leg frame, thereby preventing accidental opening of the seat. (All chairs are to be equipped for manual-uplift optional); Pitch of the seat frame in relation to back and chair main frame shall be engineered and designed to support foam seat cushion, providing full ergonomic satisfaction.

Seat frame shall be made from 11 gauge steel; vertical leg approx. 7/8" in width and horizontal leg approx. 5/8" in width, to form a rectangular frame with equal rounded corners and inside dimensions measuring approximately 16-1/2" wide and 15-1/2" deep to properly enclose, support the upholstered seat cushion assembly, and three holes in the seat frame for direct screw attachment. Seat frame shall be riveted to, and shall pivot on, two shaped side hinge plates riveted to and between main and rear leg frames.

Seat/Back Assembly

Seat assembly consisting of the upholstery fabric, foam, and seat board shall be designed to fit inside the seat frame with protection on all sides. Foam seat cushion shall be 2 ½” or 3” in thickness of pure polyurethane foam, supported on an all black chalkboard (type) laminate/wood base 1/2” thick with enough vent holes to allow for air discharge. The polyurethane foam seat cushion shall conform to California #117 *fire-retardant requirements, and shall have a density of 2.25 plus or minus .25. The polyurethane shall also comply with ASTM D3574 requirements, providing fatigue test of 25% indentation load, ratio loss of 23% maximum, and thickness loss of 23% maximum. Baseboard and foam seat cushion shall be covered with upholstery material as specified, properly sewn to form a boxed cushion without welts, and attached to underside of the baseboard with suitable metal staples. The seat assembly shall fit perfectly inside the chair seat frame and will be attached directly by using 3 vandal proof plated recessed hex washer head screws and the threaded metal inserts/fasteners as previously affixed to the seat board.

Back Assembly consisting of the upholstery fabric, foam, and backboard shall be designed for attachment to the welded steel back panel by 4 vandal proof plated recessed hex washer head screws. Specifically the foam back cushion shall be 1” in thickness of pure polyurethane foam, 1/8” shaped plywood backboard with 4 threaded metal inserts/fasteners, and upholstery attached to the underside with suitable metal staples. Upholstered backrest shall be approximately 17” wide and approximately 11” high; is contoured and angled to complement seat pitch for best posture support and comfort.

*(Seat/Back foam/ upholstery material Cal#133 Fire Retardant requirements)

Rubber Feet

The bottom of each chair leg shall have floor protective rubber feet and allow for maximum floor surface contact. Each foot assembly is manufactured with long lasting specially molded rubber over an extra protective smooth “U” shaped soft metal hairpin pronged design understructure for a secure friction fit located inside the outside tubes on each chair leg. The feet are removable only with the use of tools.

Interlocking Ganging

Interlocking shall be accomplished by means of heavy duty die formed 11 gauge steel ganging brackets, with 2 slotted die formed brackets spot welded and positioned near the top and bottom of the long leg flat channel surface and 2 heavy duty brackets with solid steel machined studs equally located and spot welded on the opposite long leg flat channel surface.

The sizes of the interlock brackets are designed for fast alignment; set up and/or take down, to prevent binding, and minimum movement between the chairs when connected. If the interlocked chairs are tipped backward they will not release and the chairs shall be approximately 18-1/4" center to center.

Finish-Powder Coat

Chair frames shall be degreased and bonderized by a 5-stage power wash process to resist rust and allow for maximum paint adhesion. Finish shall be applied by full electrostatic process using a Thermosetting Epoxy Powder to insure even coverage of not less than 2.5mil thickness. Choice of color as selected and/or required by purchaser.

Upholstery Material

Seat, back, and arms (if required) upholstery, shall be as selected /required by purchaser.

Standard Measurements (xxx=CM)

Seat height from floor	approximately 19.25" (48.9)
Seat Size	approximately 16.5" X 15.5" (41.9 X 39.4)
Back Size	approximately 17" X 11" (43.2 X 27.9)
Frame height – open	approximately 33" (83.8)
Frame width (includes gang)	approximately 18.25" on center (46.4)
Frame height – closed	approximately 41.25" (104.8)
Folded thickness	approximately 5" (12.7)
Chair weight	approximately 21 lbs.

Warranty

The bidder shall detail in writing or print the manufacturer's exclusive guarantee. Minimum acceptable guarantee at manufacturer's exclusive option shall cover replacement of any defective units of which become defective during normal usage of chairs, chair truck/pallets, and accessories. A minimum 25-year limited metal frame (structural) warranty. Replacements or repairs shall be made without cost to owner; and during the first 5 years after date of delivery and acceptance, manufacturer shall pay inbound and outbound freight charges on any chairs needing repair under guarantee. There is a Limited Lifetime Guarantee on our molded foot glides, upholstery fabric is as per the material manufacturer's documentation, and all other components are a one-year warranty.

Brief Specifications – Model TS100/ Truck Series Pallet Stacking Chair Cart or Approved Equal

Description:

The pallet truck shall accommodate approximately 50 Model ABS700 chairs stacked in an orderly fashion with each chair nesting together (same direction) to form a straight continuous line. The pallet truck shall be constructed for standard forklift operation handling, with special forklift pockets and/or metal tabs 30 ½" on center for safety, and equipped to stack 3 high (approximately 12 ½" high) when loaded on a starting block set under the base of the bottom pallet truck.

The pallet stacking trucks shall be approximately 126" in length and 41" in width. The center bed of the pallet truck shall be made from channel steel 5" x 1 ¾" x ¼". The outside beds of the truck shall be made from channel steel 3" x 1 ½" x ¼". The end supports of the truck shall be made from structural steel angles 3" x 3" x ¼" and 10 ½" x 11gauge high carbon square tubular steel. All support braces shall be made from 1" diameter x 14gauge high carbon round tubing. Each end support shall be equipped with the stacking support couplings made from ¼" formed steel. All four corners of the pallet truck shall have welded caster housings spaced properly which are 1 3/8" x 7/8" x 7gauge and shall have 2 swivel casters on one end and 2 rigid casters on the other side. The caster wheels shall measure 6" x 2" / each caster load capacity 700 lbs.

All welded steel parts shall be in compliance with A.I.S.C.

All metal parts are painted black enamel and/or as required.

Pallet Truck Base

The pallet truck base consists of two separate ends that are to be used when storing trucks in a vertical position. The pallet base provides a rigid support for the bottom truck to rest on while raising the casters off the ground. The use of the pallet base is a safety feature that will prevent movement of trucks and the possibility of accidental tipping. One pallet truck base (starter block set / two separate ends) is required for every three trucks ordered.

Delivery

Delivery shall be made to location as specified by owner. Delivery dates to be specified by owner; who shall allow successful bidder at least 100 – 120 days to complete delivery after receipt of order.