Architectural Specifications

SAM™ 8 Portable Basketball Goal (8' Extension)

FRAME The base of the frame shall consist of tubular steel members 5" x 2" x 1/8", welded to form a rectangle. This base shall support 2 steel yokes. These yokes shall be constructed of two (2) steel tubes 3" x 4" x 3/16" welded together, then welded to cross members 3" x 3" x 3/16", and shall be reinforced with gusset tubes 3" x 4" x 3/16". Yokes shall have hinge fittings to upper and lower frame via 1 ¼" steel pivot pins riding on oil-impregnated bronze bearings. Main beam shall be 6" x 6" x 3/16" steel reinforced along the top with a tubular steel spine for added stability. The front of the frame shall be fitted with a positioning pin at both sides, guaranteeing correct positioning of the unit during play. Welded base shall provide a fully-enclosed ballast compartment that is properly loaded with steel ballast at the factory. 8' clearance from backboard to impact area.

SIGHT LINES To maximize sightlines for spectators, the main vertical frame members, both front and rear, including padding, shall be 11" – 14" wide – depending on pad style selected. The horizontal frame shall be maximum 36" above floor level.

WHEELS Entire basketball system shall rest on the floor when in the storage position on eight (8), 8" diameter, 2" wide urethane casters – two (2) double-swivel front casters, and two (2) double-rear fixed casters. Wheels shall have non-marking urethane tread. Maximum load for each wheel shall be a minimum of 2000 lbs.

ANCHORS Each unit shall come equipped with a floor insert, brass cover plate, and adjustable length chain to anchor the unit per NCAA specifications. For wood floors, the brass cover plate shall not be connected to the anchor in the concrete, in order to allow movement of the wood floor.

FOLDING CYCLE The unit shall operate on a special spring balance system constructed of 4 3/8" diameter painted steel springs, steel section 13/32". Tension on these springs shall be adjustable. A telescopic rod, 2 1/8" outer rod and 1 ¾" inner rod, shall lock the unit into position with a spring-activated positive locking pin at 10'. A manual pin may be used to lock goal in at 8', and alternate height settings may be added by the customer.

DYNAMIC SUBFRAME (Patented) The unit shall be lifted off the floor during the last 30 degrees of the upward motion of the two yokes that support the main beam by means of 2 vertical rods connected to a sub-frame inside the main frame. These vertical rods, mounted in vertical bushings, shall be fitted with a roller bearing which contacts a cam mounted on each of the yokes. The cam shall have a lobe which pushes the vertical shaft and sub-frame down to lift the unit off the wheels and into game position. The height shall be easily adjustable by means of a floating adjustable nut at the base of the vertical rod. Screw down mechanisms shall not be considered equal.

PADDING All front padding shall be a minimum of 2" thick rebonded chipfoam covered with reinforced vinyl. Front pads shall be a minimum 5" thick in the area where players may collide with the unit. Side pads shall be a minimum 2" thick. The main beam, directly behind the backboard, shall be fitted with a pad to protect players' heads. Padding shall be available in two (2) styles, and 16 standard colors. Custom color-matching available with sample submittal.

GOAL AND BACKBOARD ATTACHMENT The goal and backboard shall be attached to the unit via a **true direct mount** system, so as to completely eliminate stress on the glass backboard during play; "True direct mount" means that the rim shall bolt directly to the front metal plate on the backboard, and the back metal plate of the backboard shall bolt directly to the welded plate on the main backboard support beam of the backstop. There shall be **no glass** between the front

and back steel mounting plates of the backboard; instead the heat tempered glass plate shall have a cut-out area around the mounting plates of the backboard, which shall be supported by a tubular steel lower frame and extruded aluminum frame on its full perimeter. Breakaway rim shall be designed to flex with equal pressure in any direction around the front 180° circumference of the ring, and have tubular net attachment system. Backboards with glass between the metal mounting plates shall not be considered equal.

FINISH The unit shall be powder-coated in white. (Custom colors available at a modest surcharge.) All exposed metal surfaces shall be powder coated.

SPECIFICS System weight shall be approximately 2,800 pounds. The base shall be approximately 52" wide x 72" long. The total stored dimension shall be approximately 76" wide x 176" long x 83" high. Components shall carry the following minimum warranties: Backboard, limited lifetime; Structure, 20-year limited; Backboard Padding, 10-year; Breakaway Goal, 10-year. Entire system shall meet all rules for high school and collegiate play.