JURY BASE SEATING

Section 12 61 00: Fixed Audience Seating

PART 1 GENERAL

1.1 SUMMARY

A. Work Included in this section: Provision of cushioned floor-mounted fixed Jury Base seating including attachment, or other work required for installation unless otherwise noted.

1.2 SUBMITTALS

A. Code Requirements - Compliance with the required local and national building and safety codes is the sole responsibility of the Owner/Architect/Contractor. Shop drawings are based on code requirements for assembly seating as found in IBC (International Building Code). Code information above is offered for informational purposes only and strictly as a courtesy to the Owner/Architect/Contractor. This is in no way an assumption of duty on the part of KI relative to code interpretation and compliance. KI personnel are not trained for, nor are they experts at code compliance or interpretation.

B. Field Verification **-** Shop drawings incorporate building information compiled from various sources associated with this project and deemed as reliable. Conditions directly affecting the product or its installation must be field verified.

C. Drawing Review - Shop drawings are produced to assure compliance with the contract. Drawings must be reviewed by the Owner/Architect/Contractor, or other appropriate owner's representative. If drawings are correct, mark them as such; if incorrect, note corrections to be made and return to KI for corrections. Any deviations from the contract included in the shop drawing must be approved in writing from the Owner/Architect/Contractor. Drawing must be signed by authorized personnel including title, company or affiliation, and date. Manufacture of product shown is not scheduled until drawing review is complete and an authorized signature is received.

1.3 DELIVERY, STORAGE AND HANDLING

A. Store delivered in clean, safe, dry area.

1.4 SCHEDULING

A. Schedule installation of items to occur after application of exposed finishes wherever installation will not damage exposed finish surfaces and completion of finishes will not impede installation.

PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Manufacturer: KI

B. Product: Jury Base Seating

C. Alternates or substitutes not accepted. “As Equal” products must be approved as meeting specification.

2.2 DESCRIPTION

A. "Jury Base Seating" is manufactured by KI, Green Bay, WI.
Seating is floor-mounted on flat or sloped floors. Seat shells swivel for ease in entry and exit and have an automatic memory return.

B. Floor-mounted steel bases with 360 degree swivel and automatic memory return including but not limited to:
1. Square (Basic) or Oval (Select) column bases for mounting to flat or sloped floors.
2. Thirteen chair options.
3. Optional height adjustment (standard on Diem, Oath, Impress and Impress Ultra shells).
4. Powder-coated steel frames provide maximum durability.

2.3 CONSTRUCTION

A. Frames (choose basic or select)
Standard Square Column (Basic) Jury Base pedestal frames are available for Apply, Grazie, Strive, Torsion, Torsion Air, and Wave shells (without provision for a writing surface). The column is a three-piece construction and consists of an 11-gauge round steel housing welded to a 14-gauge square column and welded to an 11-gauge 6” x 8” rectangular floor plate. The die-formed steel floor plate fastens to the floor through 1/2” holes pierced in each corner to accommodate four floor anchors. The seat swivels on a 3/4” diameter carbon steel shaft welded to the 11-gauge steel support bell and the formed steel seat spider. The shaft is inserted into the cam operated return mechanism, which springs compressed between molded engineering plastics. The contact between the top cam and the bottom cam controls the rotation. Standard rotation is 360 degrees. A plastic molded escutcheon cover will cover the floor plate.

Optional Oval Column (Select) Jury Base pedestal frames are available for Apply, Grazie, Strive, Torsion, Torsion Air, and Wave shells (without provision for a writing surface). The column is a three-piece construction and consist of an 11-gauge round steel housing welded inside a 1.95” wide by 3.12” deep 2 mm oval column and welded to a 6” wide by 8” deep 11-gauge rectangular floor plate. The die-formed steel floor plate fastens to the floor through 1/2” holes pierced in each corner to accommodate four floor anchors. The seat swivels on a 3/4” diameter carbon steel shaft welded to a steel support bell and the formed steel seat spider. The shaft is inserted into the cam operated return mechanism, which is spring compressed between molded engineering plastics. The contact between the top cam and the bottom cam control the rotation. Standard rotation is 360 degrees. A plastic molded escutcheon cover will cover the floor plate.

Optional Cylinder Column (Height-Adjustable) Jury Base frames are available for all shells offered (standard on Diem, Impress, Impress Ultra and Oath). The column is a two-piece construction and consist of a 3/16” wall round steel tube welded to an 11-gauge 6” x 8” rectangular floor plate. The die-formed steel floor plate fastens to the floor through 1/2” holes pierced in each corner to accommodate four floor anchors. The seat swivel on an automatic height and rotational memory return cylinder. The cylinder secures into either an aluminum casting that is attached to the formed steel seat spider of the shell, or the chair mechanism under the shell. The aluminum casting or the seat mechanism have a height adjustment lever attached to it. Standard rotation is 360 degrees and height adjustment 3.6”. A plastic molded escutcheon cover will cover the floor plate.

B. Shells (choose one)

1) Apply™
One-piece contoured wood shell is constructed of formed plywood, .460”-.480” thick, 7-ply Maple and Poplar construction. The mold-formed seat and back provide for comfort and strength. Top/bottom and front/back surfaces are vertical grade postforming, product type 335, high-pressure laminate thickness of .028”, standard finish is #38 or #60 with a sanded edge with tung oil finish. The wood shell is supported by four plywood circular disks and 1/4-20 t-nuts bonded with construction grade adhesive and fastened to an 11-gauge steel seat spider with four 1/4-20 x 1/2” thread-locking screws. The chair perimeter is designed such that it provides a feature to support backpacks or tote bags. As an option, shells may be equipped with an upholstered seat pad. Urethane foam is attached to a formed poly upholstery liner, then upholstered using a drawstring process. The foam is a nominal 1/2” thickness. The pad assembly is attached to the shell using 10-24 screws, engaging T-nuts in the liner.

2) Diem
A weight-activated mechanism passively adjusts backrest tilt tension based on occupant weight. The mechanism is made of stamped steel with a black plastic trim cover. One lever operates the height-adjust cylinder and a second lever allows the backrest tilt mechanism to move freely or locks it in one of four positions. Plywood seat board with 3-1/2" thick molded urethane foam is upholstered using a drawstring method. Optional seat depth adjustment range of 2.5". Reinforced nylon frame backrest with mesh insert. Backrest frame and mesh are available in black, grey or white.

3) Dōni™
The backrest and seat are injection-molded polypropylene. The seat and backrest are joined by a pair of hidden articulation mechanisms, each consisting of a 14-gauge steel housing, twin 7-gauge levers and steel coil springs. While maintaining a one-piece shell appearance, this mechanism allows the backrest to recline up to 17 degrees of motion. Optional upholstered seat and back are available. Urethane foam is attached to an injection-molded polypropylene liner board, then upholstered using a draw-string process. Seat foam is molded nominal 1” thickness, and back foam is nominal 1/2” thickness. The flush-head fasteners that attach the back pad are color-matched to the polypropylene.

4) Grazie®
Seat and backrest are injection-molded polypropylene. The seat support structure is a die-drawn 12-gauge steel plate. Fixed backrest mechanism structures are made from 1/2” diameter steel wire and attached by welding. Structure is finished with baked-on electrostatically-applied 30-degree gloss epoxy powder-coat paint. Two outer backrest supports formed from 1” diameter tubular steel are inserted into sockets molded into the backrest and secured with screws. The backrest assembly moves over molded thermoplastic slide bushings and is supported by steel coil springs. This mechanism allows the backrest to move through 15 degrees of movement about an axis of rotation that is through the hips of the occupant. Optional upholstered seat and back pads consist of urethane foam attached to an injection-molded polypropylene liner board, then upholstered using a draw-string process. Seat foam is molded nominal 1” thickness, and back foam is nominal 1/2” thickness. The flush-head fasteners that attach the back pad are color matched to the polypropylene.

5) Impress®
Seat is constructed of 1/2” thick, saddle-shaped plywood with 2.5” thick molded, high-resilient foam and is upholstered. The entire seat assembly is mounted to the mechanism by four screws. Stamped steel dual housing forms a sturdy cradle for the seat. The seat slider is double spring-loaded with a side-mounted easy-to-use control. The backrest is injection molded plastic board with embedded inserts for mounting. The board is covered with contoured molded foam and upholstered. A textured black shroud covers the rear side.

6) Impress® Ultra
Seat is constructed of 1/2” thick, saddle-shaped plywood with 2.5” thick molded, high-resilient foam and upholstered. The entire seat assembly is mounted to the mechanism by four screws. Stamped steel dual housing forms a sturdy cradle for the seat. The seat slider is double spring-loaded with a side-mounted easy-to-use control. The backrest is nylon with fiberglass-reinforced frame. Back mesh material is polyethylene elastomeric with polyester.

7) Intellect Wave®
One-piece contoured shell is constructed of high-impact polypropylene. Colorfastness is ensured through complete color impregnation throughout the molded part. Strength and durability are ensured through an engineered internal structural cavity which eliminates the need for unsightly ribs on the back of the shell. Rolled edges provide comfort and strength. Front and back are textured. Wide, ergonomic handle is molded into the chair back for ease of mobility. The shell fastens to the 12-gauge steel seat spider with six 1/4 -20 x 5/8" screws. Intellect Wave is available with an upholstered seat or an upholstered seat and back. Upholstered chairs have partially exposed polypropylene surfaces. Fabric is upholstered over 9/16" foam on the back and seat and fasted to an inner shell with screws. Back upholstery covers handle.

8) LimeLite™
The seat and backrest are integrated into a single shell that is injection-molded in polypropylene, reinforced with glass fiber. The shell is ergonomically contoured and features a passive-flex back movement for superior comfort. The seat support structure is a die-drawn 12-gauge steel plate.

9) Oath Task Chair™
Seat is constructed of a plywood seat board with dual molded urethane foams which are upholstered using a drawstring method and finished with a black plastic under-shroud. Backrest is a reinforced black nylon frame with mesh insert. The seat mechanism is a self-weighing mechanism which passively adjusts backrest tilt tension based on occupant weight. The mechanism is made of stamped steel with a black plastic trim cover. One lever operates the height-adjust cylinder and a second lever allows the backrest tilt mechanism to move freely, or locks it in one of four positions. Height-adjustable arms are available through KI Product Modification Request, and are molded in black reinforced plastic with molded black polyurethane arm caps. Armrests mount directly to the seat board. (Note: Armrests should not be specified if orienting the seat with a worksurface).

10) Strive®
Seat is constructed of injection-molded polypropylene. An optional upholstered seat is also available, for which molded urethane foam is attached to an injection-molded polypropylene seat board then upholstered using a drawstring process. The assembled seat pad is attached to the seat by means of hidden fasteners. The backrest is injection-molded polypropylene with integral steel cantilever springs. The combination of the slotted polypropylene back and spring steel provides a supportive flexing back. Springs are nominal 4.5 mm diameter chrome silicon valve spring wire. An optional upholstered back is available, constructed of 1/2" thick urethane foam attached to an injection-molded polypropylene back board, then upholstered using a draw-string process. The assembled back pad is attached to the back by means of fasteners which are exposed and color matched to the polypropylene.

11) Torsion®
Seats and backrests are molded compound curved polypropylene with a textured finish. Seat is two-piece construction. Upholstered chairs have partially exposed polypropylene surfaces. Fabric is upholstered over 9/16" foam on the backrest and 15/16" foam on the seat. Vinyl is available on the seat only. Two die cast aluminum backrest supports attach the backrest to the Torsion mechanism. A steel tube is cast into each backrest support for added strength. The back flex is achieved by the Torsion mechanism. It consists of two flat torsion springs captured at both ends by brass bushings which in turn engage with the backrest supports. The Torsion mechanism creates gradually increasing resistance over the full 12 degrees of back flex.

12) Torsion Air®
Seat is a two-piece construction with a molded polypropylene liner with a molded compound curved polypropylene shroud with a textured finish. Seat is always upholstered. Foam (1-1/2") is applied to the molded polypropylene liner. Fabric is then upholstered over the foam. Backrest frame is molded glass-reinforced nylon. Mesh fabric is 100% polyester. Two welded steel backrest supports attach the backrest to the torsion mechanism. The back flex is achieved by the torsion mechanism. It consists of two flat torsion springs captured at both ends by steel bushings that are welded to the backrest supports. The torsion mechanism creates gradually increasing resistance over the full 12 degrees of back flex.

2.4 FINISHES

Frame Finishes – Baked-on electrostatically-applied powder-coat paint is standard on all frames. Standard KI fabrics available; C.O.M. (customer's own material) fabrics require factory approval. All finishes and colors to be selected by architect. Refer to KI Color Addendum for standard finishes. Custom colors and finishes available; contact factory.

2.5 COMPLIANCE

"Jury Base Seating" is designed and manufactured in compliance with the intent of ANSI/BIFMA X5.4-2012. Seating exceeds all applicable BIFMA performance test criteria. Jury Base seating is SCS Indoor Air Quality certified.

PART 3 EXECUTION

3.1 PREPARATION

A. Coordination details with other work supporting, adjoining, or otherwise contracting items as required to insure proper installation.

B. Examine construction to verify that:

1. Dimensions are correct to manufacturer's specifications.

C. Do not install items until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Install items in strict accordance to manufacturer's Assembly Instructions and approved Shop Drawings.

B. FLOOR MOUNTING REQUIREMENTS

Minimum Floor Construction Required for Upright Installation

1. Concrete Floors
   - 3000 psi concrete compressive strength
   - 3" thick free of obstructions for 1-1/2"
   - 4" thick free of obstructions for 2-1/2" for riser mount
   - Riser to be plumb within 1/8 degree
   - Minimum anchor embedment 1-1/2"
2. Wood Floors
   - Minimum two layers of 3/4" thickness tongue & groove
   - APA rated grade plywood
   - Allow minimum embedment 1-1/2" with lag screws
3. Raised-Access Floors
   - Minimum rating of 125 PSF
   - Must be installed with grade 3 or better 3/8" diameter bolt, washers and nuts

NOTE: Warranty null and void if KI product is installed on flooring not meeting minimum structural requirements stated above. For non-typical floors not listed above, contact KI.

Floor Fastener Requirements

1. Concrete Floors
   - 1/4" x 2-5/8" Hilti KH-EZ
   - Max. torque: 18 ft lb
   - Four anchor assemblies required per base
2. Wood Floors
   - 3/8" x 2-1/2" Hex washer head tapping screw
   - Four bolt assemblies required per base
3. Raised Floors
   - 3/8"-16 x 2-1/2" Grade 3 bolt (2-1/2" minimum length), 3/8" Grade 3 washer (quantity of 2), 3/8" Grade 3 lock washer, 3/8"-16 Grade 3 nut
   - Four bolt assemblies required per base