construction notes

WORK CHAIRS

MULTI-USE CHAIRS

STACKING CHAIRS

SOFT SEATING

teknion

amicus task, general use & guest

BASE:

- reinforced nylon scuff-resistant plastic
- 26" base

CASTERS/GLIDES:

- 60mm (2 1/3") hard (carpet casters) reinforced nylon
- optional soft casters for hard floors are polyurethane coated nylon
- twin-wheeled and hooded
- 2 1/8" hard plastic glides
- soft glides have soft insert pads

PNEUMATIC CYLINDER: (GAS LIFT)

- gas-assisted pneumatic cylinder

MECHANISMS:

Synchro-Tilt:

- constructed of cast aluminum and stamped steel

SEAT:

- constructed of polyethylene + nylon

BACK:

Inner Back:

- constructed of ABS

Outer Back:

- constructed of polypropylene

Lumbar System:

- reinforced nylon

J-BAR:

- 5/16" solid steel
- epoxy powder coated

ARMS:

T-Arms:

- self-skinned urethane arm pads
- reinforced nylon armrest structure

Loop Arms:

- self-skinned urethane arm pads
- reinforced nylon armrest structure
- 5/16" steel bracket

Guest Chair Arms:

- reinforced nylon armrest

GUEST (FRAME):

Base:

- twin-wheeled and hooded
- multi-surface glides are natural polyethylene

Four-leg:

- 14 gauge steel tube

Cantilever:

- 12 gauge steel tube

FOAM:

- molded, colored, polyurethane foam for seat
- HCFC and CFC free
- 0 global warming factor
- “bumpered” as covered sides to protect furniture
- exceeds ASTMD - 3574 -91
- dynamic fatigue test by constant force pounding: thickness loss = 5% (specification calls for not more than 25%)

	Seat:	Back:
Density:	4.15 lbs./ft. 3	4.54 lbs./ft. 3
IFD @ 25%:	42 lbs	8.86 lbs
IFD @ 65%:	125 lbs	40.3 lbs
Recovery Strength @ 25%:	157N	32N
Recovery Ratio:	84.9%*	81.4%
Tensile Strength:	35.3 lbs./sq. in.*	13.8lbs./sq. in.*
Resiliency:	54%	67%
Flammability:	CAL 117	CAL 117

* exceeds ASTMP – 3770 – 91

around task and stool

BASE:

- Ebony glass-reinforced nylon or polished die-cast aluminum
- 26" diameter 5-star base (Aluminum), 27.5" diameter 5-star base (Plastic)

CASTERS/GLIDES:

- 60mm (2-1/3") hard (carpet casters) are glass-reinforced nylon plastic
- optional soft casters for hard floors are glass-reinforced nylon plastic with polyurethane soft band
- twin-wheeled casters
- glass filled nylon glides
- soft glides for hard floors have soft felt pads

PNEUMATIC CYLINDER:

- gas-assisted pneumatic cylinder lift

MECHANISMS:

- weight Activated Synchro-Tilt with easy override dial to fine tune tilt tension in one-rotation. Mechanism & seat sub-assembly facilitates Quick-Snap Assembly (one-way fastening) with the back sub-assembly & arms; and can be performed by manufacturer or on-site without tools
- glass-reinforced nylon plastic & steel

FOOTRING (STOOL):

- all-aluminum construction
- height-adjustable

SEAT:

Optional Seat Slider (depth):

- glass-reinforced nylon plastic
- plastic levers on left of seat control adjust

Seat Structure:

- glass-reinforced nylon plastic seat pan structure
- polypropylene plastic integrated FlexAround Seat Pan offers an advanced degree of comfort, support and ventilation

BACK:

Structural back frame:

- glass-reinforced nylon plastic frame structure designed to create a light, sculptural form with an open volume or space. Fabric-wrapped from front to back for a soft, tactile edge experience at the sides, bottom and top edge surfaces.
- back frame facilitates Quick-Snap Assembly (one-way fastening) to the mechanism & seat sub-assembly; to be performed by manufacturer or on-site without tools

MESH BACK:

- cushioned Mesh, featuring a dual-textured weave with coordinating colors on front and back. The mesh is breathable and provides user back support
  - – elastic piece-dyed to prevent nylon fade
  - – composition: 100% Polyester
  - – weight: Approx. 300 g/sq. m
  - – flammability: CAL 117
  - – fastness to Light: AATCC 16.3-2014 class 5
  - – abrasion Resistance: ASTM D- 4157-13, 30,000 cycles
  - – piling Resistance: ASTM D-3511/D, class 5
  - – cleaning: fixed covers: vacuum cleaning
- optional lumbar element constructed of polypropylene plastic

UPHOLSTERED BACK:

- Hex Suspension System - Hex-back insert constructed of p olypropylene plastic flexes with the body to provide comfort and support
- adjustable lumbar elements are integrated into the design; each side can be independently controlled for asymmetrical positioning. Controls constructed of glass-reinforced nylon plastic

ARMS:

- 2D (height & width) & 4D (height, width, depth & pivot) adjustable T-Arms facilitate Quick-Snap Assembly (one-way fastening) to the mechanism & seat sub-assembly; to be performed by manufacturer or on-site without tools
- thermoplastic Polyurethane (TPU) armpad covers with flexible polyurethane foam padding
- glass-reinforced nylon plastic

SEAT FOAM:

- molded, colored, polyurethane foam for seat
- HCFC and CFC free
- 0 Global warming factor
- "bumpered" as covered sides to protect furniture

	Seat:
Density:	3.2-3.6 lbs./ft³
IFD @ 25%:	206 N
IFD @ 65%:	529 N
Recovery Strength @ 25%:	200 N
Recovery Ratio:	85.4%*
Tensile Strength:	35.3 lbs./sq. in.*
Resiliency:	61%
Flammability:	CAL 117

* exceeds ASTMP – 3770 – 91

UPHOLSTERED BACK FOAM:

- molded, colored, polyurethane foam for back
- HCFC and CFC free
- 0 Global warming factor
- "bumpered" as covered sides to protect furniture

	Seat:
Density:	3.2-3.6 lbs./ft³
IFD @ 25%:	206 N
IFD @ 65%:	529 N
Recovery Strength @ 25%:	200 N
Recovery Ratio:	85.4%*
Tensile Strength:	35.3 lbs./sq. in.*
Resiliency:	61%
Flammability:	CAL 117

* exceeds ASTMP-3770-91

marini

BASE:

- die-cast aluminum
- diameter of 27"

CASTERS/GLIDES:

- 60mm (2 1/3") hard (carpet casters) are reinforced nylon
- optional soft casters for hard floors are polyurethane coated nylon
- twin-wheeled
- 2 1/8" hard plastic glides
- soft glides have soft felt pads

PNEUMATIC CYLINDER (GAS LIFT):

- gas-assisted pneumatic cylinder

MECHANISMS:

Synchro-Tilt:

- constructed of aluminum, steel and plastic

SEAT:

- constructed of reinforced nylon

BACK:

- constructed of polypropylene and reinforced nylon
- polished aluminum die-cast inset detail

J-BAR:

- die-cast aluminum with polished finish

ARMS:

Width & Height-Adjustable T-Arms:

- die-cast aluminum
- various plastics
- self-skinned urethane arm pads

FOAM:

- molded, colored, polyurethane foam for seat and back
- HCFC and CFC free
- 0 Global warming factor
- “bumpered” as covered sides to protect furniture

STANDARD SHIPPING CARTONS:

- recycled foam used to protect knocked-down chair in box
- double wall cardboard
- recycled and recyclable
- 3" reinforced gum tape (recycled)

nuova contessa

BASE:

- die-cast aluminum base
- painted or polished finish
- diameter of 27"

CASTERS/GLIDES:

- polyamide 6 hard twin-wheeled casters
- diameter of 5.9"
- optional soft type urethane casters

PNEUMATIC CYLINDER: (GAS LIFT)

- gas-assisted pneumatic cylinder lift

MECHANISMS:

Synchro-Tilt:

- die-cast aluminum body
- rubber torsion mechanism

SEAT:

Seat Slider (depth):

- reinforced plastic (polyamide)

Seat Structures:

- reinforced plastic (polyamide)
- aluminum die-cast frame
- 2" forward/back adjust in six positions
- levers on left and right of seat control adjust

Seat Material (All Mesh model):

- 100% polyester mesh
- zehedral braided format for optimized feel & additional support specifically tailored for the seat
- elastic piece-dyed to prevent color fade

BACK:

Frame:

- die-cast aluminum external frame with paint or anodized finish
- reinforced plastic (polyamide) structural back
- maximum two visibly exposed mechanical fasteners on entire chair, bezel-recessed on side to minimize aesthetic impact and maximize structural performance.

Inner Back:

- 100% polyester mesh
- zehedral braided format for optimized feel & support, specifically tailored for your back
- elastic piece-dyed to prevent color fade

Lumbar System:

- glass-reinforced nylon plastic
- black translucent polypropylene membrane responds uniquely to individual's back curve depth & force

ARMS:

4D T-Arms:

- Smart Operations controls for seat height & back tilt/tilt-lock are integrated into levers on arms for easy access above seat level
- polyurethane pads
- reinforced plastic (nylon) structure
- button-controlled arm height adjustment and intuitive self-adjustment for width, depth and pivot

FOAM (DUAL-UPHOLSTERED MODEL ONLY):

- molded, tri-durometer polyurethane foam seat pan construction maximizes varying needs for comfort & support throughout
- 0 global warming factor
- HCFC and CFC free
- 0 global warming factor
- "bumpered" as covered sides to protect furniture

	Seat:
Density:	3.2-3.6 lbs./ft. 3
IFD @ 25%:	206 lbs
IFD @ 65%:	529 lbs
Recovery Strength @ 25%:	200N
Recovery Ratio:	85.4%*
Tensile Strength:	35.3 lbs./sq. in.*
Resiliency:	61%
Flammability:	CAL 117

* exceeds ASTMP – 3770 – 91

HEADREST (OPTIONAL):

- height and depth adjustable
- polyurethane pad
- reinforced plastic (nylon) structure

projek task & stool

BASE:

- die-cast aluminum 26" base
- reinforced nylon, scuff resistant plastic (ebony), 27-1/2" base

CASTERS/GLIDES:

- 60mm (2 1/3") hard (carpet casters) are reinforced nylon
- optional soft casters for hard floors are polyurethane coated nylon
- twin-wheeled
- 2 1/8" hard plastic glides
- soft glides have soft felt pads

PNEUMATIC CYLINDER: (GAS LIFT)

- gas-assisted pneumatic cylinder

MECHANISMS:

Weight-Activated Synchro-Tilt and Swivel Stool:

- constructed of aluminum, steel, and plastic
- epoxy powder coat paint

FOOTRING (STOOL):

- constructed of aluminum, steel tube and plastic spacer
- height-adjustable

SEAT:

- constructed of reinforced polypropylene

BACK:

Structural Back Outer Frame:

- constructed of glass reinforced nylon

Inner Frame:

- constructed of glass reinforced polypropylene

Lumbar System:

- constructed of polypropylene

MESH:

- Trade Name: Shrinx by k+r
- Composition: 76% Polyester, 24% Polyamid
- Weight: Approx. 380 g/lm
- Flammability: D- DIN EN 1021:2006 (as per spec sheet)
- Fastness to Light: DIN EN ISO 105-B02: 2002 5 - 7
- Fastness to Rubbing: DIN EN ISO 105-X12: 2002 4 – 5 dry and wet
- Fastness to perspiration: DIN EN ISO 105-E04: 2009 4-5 acid and alkaline
- Cleaning: fixed covers: vacuum cleaning

HEADREST:

- Frame constructed of polypropylene

ARMS:

2D Height & Width-Adjustable T-Arms:

- fiber glass reinforced nylon armrest structure
- self-skinned urethane arm pads

4D Height & Width Adjustable T-Arms with 210° Pivot:

- ebony powder coated aluminum upright
- fiber glass reinforced nylon armrest
- Self-skinned urethane arm pads

SEAT FOAM:

- molded, colored, polyurethane foam for seat
- HCFC and CFC free
- 0 Global warming factor
- "bumpered" as covered sides to protect furniture

	Seat:
Density:	4.8 lbs./ft.3
IFD @ 25%:	206N
IFD @ 65%:	529N
Recovery Strength @ 25%:	200N
Recovery Ratio:	85.4%*
Tensile Strength:	35.3 lbs./sq. in.*
Resiliency:	61%
Flammability:	CAL 117

* exceeds ASTMP – 3770 – 91

projek guest

BASE:

- multi-surface glides are natural polyethylene

CANTILEVER FRAME:

- 12 gauge steel tube
- Ebony powder coat or chrome finish

ARM:

- Glass filled nylon

SEAT & BACK:

Structural Seat & Back Outer Frame:

- constructed of fiber glass reinforced nylon

Inner Frame:

- constructed of glass reinforced polypropylene

MESH:

- Trade Name: Shrinx by k+r
- Composition: 76% Polyester, 24% Polyamid
- Weight: Approx. 380 g/lm
- Flammability: D- DIN EN 1021:2006 (as per spec sheet)
- Fastness to Light: DIN EN ISO 105-B02: 2002 5 - 7
- Fastness to Rubbing: DIN EN ISO 105-X12: 2002 4 – 5 dry and wet
- Fastness to perspiration: DIN EN ISO 105-E04: 2009 4-5 acid and alkaline
- Cleaning: fixed covers: vacuum cleaning

FOAM:

- molded, colored, polyurethane foam for seat
- HCFC and CFC free
- 0 global warming factor
- “bumpered” as covered sides to protect furniture
- exceeds ASTMD - 3574 -91
- dynamic fatigue test by constant force pounding: thickness loss = 5% (specification calls for not more than 25%)

	Seat:	**Back:**
Density:	4.15 lbs./ft. 3	4.54 lbs./ft. 3
IFD @ 25%:	42 lbs	8.86 lbs
IFD @ 65%:	125 lbs	40.3 lbs
Recovery Strength @ 25%:	157N	32N
Recovery Ratio:	84.9%*	81.4%
Tensile Strength:	35.3 lbs./sq. in.*	13.8lbs./sq. in.*
Resiliency:	54%	67%
Flammability:	CAL 117	CAL 117

* exceeds ASTMP – 3770 – 91

RBT

BASE:

- die-cast aluminum 26" base
- diameter of 26"

CASTERS/GLIDES:

- 60mm (2 1/3") hard (carpet casters) are reinforced nylon
- optional soft casters for hard floors are polyurethane coated nylon
- twin-wheeled
- soft glides have soft felt pads

PNEUMATIC CYLINDER: (GAS LIFT)

- gas-assisted pneumatic cylinder

MECHANISMS:

Synchro-Tilt:

- constructed of cast aluminum, steel, and plastic

SEAT:

- constructed of polypropylene and glass reinforced nylon

BACK:

Frame and Back Upright:

- diecast aluminum frame
- steel leaf springs and cable
- glass reinforced nylon links

Individual Ribs:

- glass reinforced nylon pans
- ABS, polyurethane foam and fabric

ARMS:

T-Arms:

- polyurethane foam pads
- aluminum with glass reinforced nylon housing

FOAM:

- molded, colored, polyurethane foam for seat
- 0 Global warming factor
- HCFC and CFC free
- “bumpered” as covered sides to protect furniture
- exceeds ASTMD-3574-91
- dynamic fatigue test constant force pounding: thickness loss = 5% (specification call for not more than 25%)

	Seat:	Back:
Density:	1.6 - 1.75 lb/ cu.ft.	3.1 lb/ cu.ft.
IFD:	16 - 22 lbs	
IFD @ 65%:	529N	
Tensile Strength:	10 lbs./sq. in.	14.8 lbs
Resiliency:	45%	45%
Flammability:	CAL 117	CAL117
Compression Set at 90% max:	8%	8%

sabrina task & stool

BASE:

- ebony glass-reinforced nylon or polished die-cast aluminum
- 26" diameter 5-star base

CASTERS/GLIDES:

- 60 mm (2-1/3") hard (carpet casters) are glass-reinforced nylon plastic
- optional soft casters for hard floors are glass-reinforced nylon plastic with polyurethane soft band
- twin-wheeled casters
- glass filled nylon glides
- soft glides have soft felt pads

PNEUMATIC CYLINDER:

- gas-assisted pneumatic cylinder lift

MECHANISM:

Synchro-Tilt:

- die-cast aluminum, steel & plastic
- ebony powder coating

FOOTRING (STOOL):

- all-aluminum construction
- height-adjustable

SEAT:

Seat Slider (depth):

- glass-reinforced nylon plastic

Seat Structure:

- glass-reinforced nylon plastic
- formed steel plate with ebony powder coating
- plastic levers on left and right of seat control adjust

BACK:

Structural Back Frame:

- glass-reinforced nylon plastic
- polished die-cast-aluminum insert

Inner Back:

- 100% polyester mesh
- elastic piece-dyed to prevent nylon fade

Lumbar Support:

- glass-reinforced nylon plastic
- ebony translucent polypropylene membrane

ARMS:

T-Arms:

- polyurethane pads
- glass-reinforced nylon plastic

HEADREST:

- glass-reinforced nylon plastic
- 100% polyester mesh

COAT HANGER:

- glass-reinforced nylon plastic

FOAM:

- molded, colored, polyurethane foam for seat
- HCFC and CFC free
- 0 global warming factor
- "bumpered" as covered sides to protect furniture

	Seat:
Density:	3.2-3.6 lbs./ft³
IFD @ 25%:	206 N
IFD @ 65%:	529 N
Recovery Strength @ 25%:	200N
Recovery Ratio:	85.4%*
Tensile Strength:	35.3 lbs./sq. in. *
Resiliency:	61%
Flammability:	CAL 117

* exceeds ASTMP – 3770 – 91

savera task & stool

BASE:

- reinforced nylon plastic
- 26" base

CASTERS/GLIDES:

- 60mm (2 1/3") hard (carpet casters) are reinforced nylon
- optional soft casters for hard floors are polyurethane coated nylon
- twin-wheeled
- 2 1/8" hard plastic glides
- soft glides have soft felt pads

PNEUMATIC CYLINDER (GAS LIFT):

- gas-assisted pneumatic cylinder

MECHANISMS:

Synchro-Tilt:

- stamped steel construction
- epoxy powder coat paint

Swivel-Tilt:

- cast aluminum and stamped steel
- epoxy powder coat paint

Swivel (Stool):

- stamped steel construction
- epoxy powder coat paint

FOOTRING (STOOL):

- made of aluminum, steel tube and plastic spacer

SEAT:

- constructed of reinforced nylon

BACK:

- constructed of reinforced nylon

J-BAR:

- 5/16" solid steel
- epoxy powder coated

ARMS:

Width & Height-Adjustable T-Arms:

- reinforced nylon armrest structure
- self-skinned urethane arm pads

FOAM:

- molded, colored, polyurethane foam for seat and back
- HCFC and CFC free
- 0 Global warming factor
- "bumpered" as covered sides to protect furniture

	Seat:	Back:
Density:	2.8-3.4 lbs./ft.3	1.7-1.8 lbs./ft.3
IFD @25%:	10.77 lbs	
IFD @65%:	40 lbs	
ILD:		26-30
Flammability:	CAL 117	CAL 117

savera xl

BASE:

- reinforced nylon plastic
- 27" base

CASTERS:

- 60mm (2 1/3") hard (carpet casters) are reinforced nylon
- optional soft casters for hard floors are polyurethane coated nylon
- twin-wheeled

PNEUMATIC CYLINDER (GAS LIFT):

- heavy duty gas-assisted pneumatic cylinder

MECHANISMS:

Synchro-Tilt:

- stamped steel construction
- epoxy powder coat paint

SEAT & BACK:

- molded plywood

J-BAR

- 3/8" solid steel
- epoxy powder coated

ARMS:

Height-Adjustable T-Arms:

- reinforced nylon armrest structure
- self-skinned urethane arm pads

FOAM:

- molded, colored, polyurethane foam for seat and back
- HCFC and CFC free
- 0 Global warming factor
- "bumpered" as covered sides to protect furniture

Seat:	**Back:**	
Density:	2.8-3.4 lbs./ft.3	2.8-3.4 lbs./ft.3
IFD @25%:	12.86 lbs	
IFD @65%:	43 lbs	21.37 lbs
Flammability:	CAL 117	CAL 117

t-3 task & stool

BASE:

- reinforced nylon plastic
- 26" base

CASTERS/GLIDES:

- 60mm (2 1/3") hard (carpet casters) are reinforced nylon
- optional soft casters for hard floors are polyurethane coated nylon
- twin-wheeled
- 2 1/8" hard plastic glides
- soft glides have soft felt pads

PNEUMATIC CYLINDER: (GAS LIFT)

- gas-assisted pneumatic cylinder

MECHANISMS:

Synchro-Tilt:

- stamped steel construction

Swivel (Stool):

- stamped steel construction
- epoxy powder coat paint

FOOTRING (STOOL):

- made of aluminum, steel tube and plastic spacer

SEAT:

- plywood seat pan

BACK:

- constructed of polypropylene

J-BAR:

- 1/4" solid steel
- epoxy powder coated

ARMS:

Width & Height-Adjustable T-Arms:

- reinforced nylon armrest structure
- self-skinned urethane arm pads

FOAM:

- block polyurethane foam for seat and back
- HCFC and CFC free
- 0 Global warming factor
- "bumpered" as covered sides to protect furniture

variable multi-use swivel work chair & stool

BASE:

- ebony glass-reinforced nylon or polished die-cast aluminum
- 26" diameter 5-star base

CASTERS/GLIDES:

- 60 mm (2-1/3") hard (carpet casters) are glass-reinforced nylon plastic
- optional soft casters for hard floors are glass-reinforced nylon plastic with polyurethane soft band
- twin-wheeled casters
- glass filled nylon glides
- soft glides have soft felt pads

MECHANISMS:

Swivel:

- constructed of aluminum, steel and plastic
- polished die-cast aluminum case
- chrome-plated steel wire lever and ebony plastic handle

CANTILEVERED FRAME:

- 3/4" (19mm) durable round steel tube, 12 gauge
- powder coating or chrome finish

FOOTRING (STOOL):

- constructed of aluminum, steel tube and ebony plastic spacer

SEAT & BACK SHELL:

- engineered, injection-molded, lightly textured 100% nylon with patented , integrated back-flex
- non-corrosive steel mechanical fasteners

FIXED ARMS:

- 3/4" (19mm) durable round steel tube, 12 gauge, arm stanchion
- powder coating or chrome-plating finish on stanchion
- ABS plastic arm pad

TABLET:

- compact laminate
- chrome plated 3/4" (19mm) durable round steel tube, 12 gauge
- steel pivot-mechanism in glass-reinforced nylon plastic case allows worksurface to pivot-up 90°

SEAT & BACK PADS:

- polypropylene and ABS plastic
- extra-strength adhesive fasteners

SEAT FOAM:

- molded, colored, polyurethane foam for seat and back
- HCFC and CFC free
- 0 Global warming factor

	Seat:	Back:
Density:	3.2-3.6 lbs./ft^3	3.2-3.6 lbs./ft. ^{3}
IFD @ 25%:	10.77 lbs.	
IFD @ 65%:	40 lbs.	
Flammability:	CAL 117	CAL 117

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FRAME:

- solid hardwood
- exposed wood is solid maple
- rubber webbing seat

FOAM:

- terylene covered high density block foam

ability spinner stool

BASE:

- reinforced nylon scuff-resistant plastic
- 22" diameter

CASTERS/GLIDES:

- 60mm (2 1/3") hard (carpet casters) reinforced nylon
- optional soft casters for hard floors are polyurethane coated nylon
- twin-wheeled and hooded
- 2 1/8" hard plastic glides
- soft glides have soft insert pads

MECHANISMS:

- 360° swivel
- seat height adjustment lever

PNEUMATIC CYLINDER: (GAS LIFT)

- gas-assisted pneumatic cylinder
- pneumatic cylinder provides height adjustment of 6"

SEAT:

- available in triangular (NACSPT) and round (NASCPR)
- seat slider option not available
- 2" polyurethane slab foam for support

FOAM:

- molded, colored, polyurethane foam for seat
- HCFC and CFC free
- 0 global warming factor
- "bumpered" as covered sides to protect furniture
- exceeds ASTMD - 3574 -91
- dynamic fatigue test by constant force pounding: thickness loss = 5% (specification calls for not more than 25%)

Density:	2.4 - 2.5 min.lbs./cu.ft
IFD @ 25%:	48 - 57 lbs.
IFD @ 65%:	125 lbs
Tensile Strength:	17 lbs./sq.in.
@ 25%:	157 N
Elongation:	120 min. 95.5% min.
Tensile Strength:	35.3lbs./sq. in.*
Resiliency:	55%
Flammability:	CAL 117
Compression Seat at 90% Max:	10%
Compression Modulus:	2.2 min.

projek conference chair

BASE:

- reinforced nylon, scuff resistant plastic (ebony), 27 1/2" base
- die-cast aluminum 26" base (premium)

CASTERS/GLIDES:

- 60 mm (2-1/3") hard (carpet casters) are glass-reinforced nylon plastic
- optional soft casters for hard floors are glass-reinforced nylon plastic with polyurethane soft band.
- twin-wheeled casters in Ebony (black)
- glass filled nylon glides
- soft glides have soft felt pads

PNEUMATIC CYLINDER (GAS LIFT):

- gas-assisted pneumatic cylinder

MECHANISM:

Swivel-Tilt Height Adjustable:

- constructed of aluminum, steel and plastic
- polished die-cast aluminum case
- chrome-plated steel wire lever and ebony plastic handle

ARMS:

- Glass filled nylon

SEAT & BACK:

Structural Back Outer Frame:

- constructed of glass reinforced nylon

Inner Frame:

- constructed of glass reinforced polypropylene

MESH:

- Trade Name: Shrinx by k+r
- Composition: 76% Polyester, 24% Polyamid
- Weight: Approx. 380 g/lm
- Flammability: D- DIN EN 1021:2006 (as per spec sheet)
- Fastness to Light: DIN EN ISO 105-B02: 2002 5 - 7
- Fastness to Rubbing: DIN EN ISO 105-X12: 2002 4 – 5 dry and wet
- Fastness to perspiration: DIN EN ISO 105-E04: 2009 4-5 acid and alkaline
- Cleaning: fixed covers: vacuum cleaning

SEAT FOAM:

- molded, colored, polyurethane foam for seat
- HCFC and CFC free
- 0 Global warming factor
- "bumpered" as covered sides to protect furniture

	Seat:
Density:	4.8 lbs./ft.3
IFD @ 25%:	206N
IFD @ 65%:	529N
Recovery Strength @ 25%:	200N
Recovery Ratio:	85.4%*
Tensile Strength	35.3 lbs./sq. in*
Resiliency:	61% min.
Flammability:	CAL 117

* exceeds ASTMP – 3770 – 91

GLIDES:

- multi-surface glides are nylon

FRAME:

- welded steel tubing

STRUCTURAL SEAT & BACK:

- engineered, injection-molded, lightly textured polypropylene
- recyclable materials

INTEGRATED ARMS WITH CAP:

- arms are intergrated with the frame
- arms are available in polished aluminum or black fiberglass reinforced nylon plastic options

STANDARD SHIPPING CARTONS:

- double wall cardboard
- recycled and recyclable
- 3" reinforced gum tape (recycled)

FOAM:

Back:

- Upholstered back section is high-density molded foam

Seat:

- Upholstered seat section is made of colored block-foam
- seat is 1/2" thick
- foam seat grade: 2550 ultracel

Seat:

Density:	2.4-2.5 lbs./ft.3
IFD:	47-54 psi
Flammability:	CAL 117
Modulus:	2.20 min @65%

synapse

FRAME:

- solid grade "A" maple
- beech wood

SEAT:

- engineered, injection- molded, lightly textured polypropylene
- aluminum
- recyclable materials

GLIDES:

- polyethylene

FOAM:

- Upholstered section of the guest chair is made of colored block-form foam (seat only)
- polyurethane
- Density: 4.0 lbs./ft.3
- IFD @25%: 42 lbf.
- IFD @65%: 86 lbf.
- CAL117: Pass

STANDARD SHIPPING CARTONS:

- double wall cardboard
- recycled and recyclable
- 3" reinforced gum tape (recycled)

taiga

FRAME:

- solid “A” grade maple
- connections are secured with screws, glue and dowels

FOAM:

- molded, colored, polyurethane foam for seat
- HCFC and CFC free
- 0 global warming factor

STANDARD SHIPPING CARTONS:

- recycled foam used to protect product in box
- double wall cardboard
- recycled and recyclable
- 3" reinforced gum tape (recycled)

variable conference

BASE:

- die-cast aluminum with polished finish
- 26" diameter 5-prong spider base

CASTERS/GLIDES:

- 60 mm (2-1/3") hard casters for carpet are glass-reinforced nylon plastic
- optional soft casters for hard floors are glass-reinforced nylon plastic with polyurethane soft band
- twin-wheeled casters
- glass filled nylon glides
- soft glides have soft felt pads

MECHANISMS:

Swivel:

- constructed of aluminum, steel and plastic
- polished die-cast aluminum case
- chrome-plated steel wire lever and ebony plastic handle

CANTILEVERED FRAME:

- 3/4" (19mm) durable round steel tube, 12 gauge
- powder coating or chrome finish

SEAT & BACK SHELL:

- engineered, injection-molded, lightly textured 100% nylon with patented , integrated back-flex
- non-corrosive steel mechanical fasteners

FIXED ARMS:

- 3/4" (19mm) durable round steel tube, 12 gauge, arm stanchion
- powder coating or chrome-plating finish on stanchion
- ABS plastic arm pad

TABLET:

- compact laminate
- chrome plated SAE1010 3/4" (19mm) durable round steel tube, 12 gauge
- steel pivot-mechanism in glass-filled nylon plastic case allows worksurface to pivot-up 90°

SEAT & BACK PADS:

- polypropylene and ABS plastic
- extra-strength adhesive fasteners

SEAT FOAM:

- molded, colored, polyurethane foam for seat and back
- HCFC and CFC free
- 0 Global warming factor

	Seat:	Back:
Density:	3.2-3.6 lbs./ft^3	3.2-3.6 lbs./ft. ^{3}
IFD @ 25%:	10.77 lbs.	
IFD @ 65%:	40 lbs.	
Flammability:	CAL 117	CAL 117

variable hybrED chair

BASE:

Storage Tray Base:

- Polypropylene, scuff resistant plastic (ebony/platinum), 27-1/2" base
- non-corrosive steel mechanical fasteners

Swivel-Height Adjustable with 5-Star Base:

- reinforced nylon, scuff resistant plastic (ebony), 27-1/2" base
- die-cast aluminum 26" base (premium)

CASTERS/GLIDES:

- 60 mm (2-1/3") hard (carpet casters) are glass-reinforced nylon plastic
- optional soft casters for hard floors are glass-reinforced nylon plastic with polyurethane soft band
- twin-wheeled casters in Ebony (black) and Silver/Ebony finish.
- glass filled nylon glides
- soft glides have soft felt pads

CANTILEVERED FRAME:

- cantilevered frame & base to maximize storage capacity & allow
- 1" (25 mm) durable round steel tube, 12 gauge
- powder coating

PNEUMATIC CYLINDER (GAS LIFT):

Swivel Height Adjustable with 5-Star Base:

- gas-assisted pneumatic cylinder

MECHANISM:

Storage Tray Base:

- custom swivel mechanism constructed of aluminum, steel and plastic
- polished die-cast aluminum case
- swivel range from -45° to +45°

Swivel Height Adjustable with 5-Star Base:

- constructed of aluminum, steel and plastic
- polished die-cast aluminum case
- chrome-plated steel wire lever and ebony plastic handle
- 360° Swivel

WORKSURFACE:

- PC-ASA scuff-resistant plastic tablet with integrated edge barriers
- powder coated 1" (25mm) durable round steel tube, 12 gauge
- steel pivot-mechanism in glass-reinforced nylon plastic case allows worksurface to pivot 360° to provide un-handed usage

SEAT & BACK SHELL:

- engineered, injection-molded, lightly textured 100% nylon with patented, integrated back-flex
- non-corrosive steel mechanical fasteners
- 11 gauge steel reinforcement plate for seat pan

SEAT & BACK PADS:

- polypropylene and ABS plastic
- extra-strength adhesive fasteners
- options for no upholstery, upholstered pad on seat only or upholstered pads on seat & back; with single or dual upholstery options

FOAM:

- molded, colored, polyurethane foam for seat and back
- HCFC and CFC free
- 0 Global warming factor
- "bumpered" as covered sides to protect furniture

	Seat:	Back:
Density:	4.8 lbs./ft.3	5.10 lbs./ft.3
IFD @ 25%:	206N	206N
IFD @ 65%:	529N	529N
Recovery Strength @ 25%:	200N	129N
Recovery Ratio:	85.4%*	85.4%
Tensile Strength:	35.3 lbs./sq. in.*	13.83 lbs./sq. in*
Resiliency:	61%	61%
Flammability:	CAL 117	CAL 117

* exceeds ASTMP – 3770 – 91

nami

FRAME:

- uni 7947 18 mm round steel tube
- epoxy powder coating or chrome finish

SEAT AND BACK:

Plastic:

- engineered, injection- molded, lightly textured polypropylene
- recyclable materials

3D Wood:

- engineered, heat and pressure molded beech Veneer 3D Sheets form one-piece Shell
- semi-open pore finish

ARMS:

- polyethylene

GLIDES:

- polyethylene

DOLLY:

- 14 gauge tubing, 7/8" diameter
- welded steel construction
- hard casters are dual nylon

BOOKRACK:

- 6 mm steel wire
- epoxy powder coating

TABLET:

- compact laminate

GANGING CONNECTORS:

- polyethylene

STANDARD SHIPPING CARTONS:

- double wall cardboard
- recycled and recyclable
- 3" reinforced gum tape (recycled)
- 2 chairs shipped per box
- 1 stool shipped per box

variable 4-leg stacking guest chair & stool

FRAME:

- 3/4" (19mm) durable round steel tube, 14 gauge
- powder coating or chrome-plated finish
- wall saver leg
- integrated fixed arm option
- ebony nylon plastic bumpers
- non-corrosive metal mechanical fasteners

CASTERS/GLIDES:

- 60 mm (2-1/3") hard (carpet casters) are glass-reinforced nylon plastic
- optional soft casters for hard floors are glass-reinforced nylon plastic with polyurethane soft band
- twin-wheeled casters
- glass filled nylon glides
- soft glides have soft felt pads

SEAT & BACK SHELL:

- engineered, injection-molded, lightly textured 100% nylon with patented, integrated back-flex
- non-corrosive steel mechanical fasteners

FIXED ARMS:

- ABS plastic arm pad

TABLET:

- compact laminate
- chrome plated 3/4" (19mm) durable round steel tube, 12 gauge
- steel pivot-mechanism in glass-filled nylon plastic case allows worksurface to pivot-up 90°

BOOKRACK:

- chrome plated 3/16" (4.76 mm) & 1/4" (6.35 mm) round steel wire

SEAT & BACK PADS:

- polypropylene and ABS plastic
- extra-strength adhesive fasteners

SEAT FOAM:

- molded, colored, polyurethane foam for seat and back
- HCFC and CFC free
- 0 Global warming factor

	Seat:	Back:
Density:	3.2-3.6 lbs./ft^3	3.2-3.6 lbs./ft. ^{3}
IFD @ 25%:	10.77 lbs.	
IFD @ 65%:	40 lbs.	
Flammability:	CAL 117	CAL 117

volume

FRAME:

- SAE 1010 12mm round steel wire
- chrome plated

SEAT AND BACK:

- engineered, injection- molded, lightly textured polypropylene
- recyclable materials
- o.s plyurethane foam (upholstered seat version)

ARMS:

- n/a

GLIDES:

- polycarbonate

DOLLY:

- 14 gauge tubing, 1" diameter
- welded steel construction
- hard casters are dual nylon. 2 lockable casters & 2 casters without locks

BOOKRACK:

- engineered, injection- molded, lightly textured polypropylene tray
- recyclable materials
- 6mm SAE 1010 steel wire
- chrome plated

TABLET:

- compact laminate
- 12 mm SAE 1010 chrome plated steel wire arm

GANGING CONNECTORS:

- polycarbonate

STANDARD SHIPPING CARTONS:

- double wall cardboard
- recycled and recyclable
- 3" reinforced gum tape (recycled)

zone guest

FRAME:

- 1 1/2" x 7/8" oval tube, 16 gauge
- 7/8" round tube, 16 gauge
- epoxy powder coating

SEAT AND BACK:

- engineered, injection- molded, lightly textured polypropylene
- recyclable materials

ARMS:

- 30% glass-filled nylon

GLIDES:

- virgin polypropylene

DOLLY:

- 7/8" gauge tubing
- welded steel construction
- hard casters are dual nylon

BOOKRACK:

- 18 gauge steel
- epoxy powder coating

GANGING CONNECTORS:

- nylon

STANDARD SHIPPING CARTONS:

- double wall cardboard
- recycled and recyclable
- 3" reinforced gum tape (recycled)
- 2 chairs shipped per box

aegis

FRAME:

- standard modular frame made of 16 gauge welded tubing

WEBBING:

- made of elasbelt “Green Line” type 450/S
- latex rubber 47%, polypropylene 53%
- total section mmq. 94.96
- tensile strength: 815 lbs.

FOAM:

VC grade foam is used. Colored block-form foam is used for seat and back.

	Seat::
Density:	2.4 - 2.5 min.lbs./cu.ft
IFD @ 25%:	47 - 57 lbs
Tensile Strength:	17 lbs./sq. in
Elongation:	120 min
Resiliency:	55% min
Flammability:	CAL 117
Compression set at 90% max:	10%
Compression Modulus:	2.2 min

SIDE TABLE:

- surface is MDF, router-cut and shaped

STANDARD SHIPPING CARTONS:

- recycled foam used to protect product in box
- double wall cardboard
- recycled and recyclable
- 3" reinforced gum tape (recycled)

belize

FRAME:

Seat

- 12 gauge steel frame with dymetrol flexible membrane

Back and Arms

- 12 gauge steel tubing

STORAGE SHELF:

- black polyester mesh

TABLET:

- diecast aluminum base
- surface as specified, see Fabrics & Finishes Program guide for details

CUP HOLDER:

- diecast aluminum base
- black rubber non-slip surface

CASTERS/GLIDES:

- 70 mm nylon hard casters for use on carpet
- optional soft casters for hard floors are plyurethane coated

SIDE PANELS:

- constructed of steel
- surface as specified, see Fabrics & Finishes Program guide for details

FOAM:

VC grade foam is used. Both molded polyurethane and colored block-form foam are used for seat and back

	Seat:	Back:
Density:	2.60 min.lbs./cu.ft	2.00 - 2.15 lbs./cu.ft
IFD @ 25%:	41 - 47 lbs	33 - 38 lbs
Tensile strength	10 lbs./sq. in	10 lbs./sq. in
Elongation:	75% min	75% min
Recovery ratio:	45% min	45% min
Flammability:	CAL 117	CAL 117
Compression:		
Set at 90% max:	8%	8%
Compression		
Modulus:		2.25 min. 2.25 min.
Hysteresis Loss:	25% max.	25% max.

collaborative ottoman

MODULAR SEATING:

Seat:

- plywood construction
- available in round or square

Base:

- reinforced nylon scuff-resistant plastic
- 22" diameter

CASTERS/GLIDES:

- 37mm (1.5") hard (carpet casters) reinforced nylon
- optional soft casters for hard floors are polyurethane coated nylon
- twin-wheeled and hooded
- 2" hard plastic glides
- soft glides have soft insert padsr

FOAM:

VC grade foam is used. Colored blockform foam is used for seat.

	Seat:	**Back:**
Density:	2.6 min. lbs./cu.ft	1.6 - 1.75 lbs./cu.ft
IFD @ 25%:	41 - 47 lbs.	16 - 22 lbs.
Tensile Strength:	10 lbs./sq. in	10 lbs./sq. in
Elongation	75% min.	75% min.
Recovery Ratio:	45% min.	45% min.
Flammability:	CAL 117	CAL 117
Set at 90% max:	8%	8%
Compression:		
Modulus:	2.25 min.	2.25 min.
Hysteresis Loss:	25% max.	25% max.

MODULAR SEATING:

Seat:

- plywood construction

Back:

- constructed of 14 gauge steel
- welded and powder coated

Glides:

- black plastic with steel thread

Foam:

VC grade foam is used. Both molded polyurethane and colored blockform foam are used for seat and back

	Seat:	Back:
Density:	2.6 min. lbs./cu.ft	1.6 - 1.75 lbs./cu.ft
IFD @ 25%:	41 - 47 lbs.	16 - 22 lbs.
Tensile Strength:	10 lbs./sq. in	10 lbs./sq. in
Elongation	75% min.	75% min.
Recovery Ratio:	45% min.	45% min.
Flammability:	CAL 117	CAL 117
Set at 90% max:	8%	8%
Compression:		
Modulus:	2.25 min.	2.25 min.
Hysteresis Loss:	25% max.	25% max.

MODULAR TABLES:

Surface:

as specified, compact laminate or baltic birch plywood substrate with natural veneer or flintwood

Base:

- plywood construction

Base Frame:

- standard modular frame constructed of steel
- welded and powder coated

Glides:

- black plastic with steel thread

Foam:

VC grade foam is used. Both molded polyurethane and colored blockform foam are used for seat and back

Density:	2.60 min. lbs./cu.ft	
IFD @ 25%:	41 - 47 lbs.	
Tensile Strength:	10 lbs./sq. in	
Elongation	75% min.	
Recovery Ratio:	45% min.	
Flammability:	CAL 117	
Compression:		
Set at 90% max:	8%	
Modulus:	2.25 min.	
Hysteresis Loss:	25% max.	25% max.

FREESTANDING TABLES:

Surface:

As specified, compact laminate or baltic birch plywood substrate with natural veneer or flintwood

Base:

- die-cast aluminum base and latch (laptop table only)
- extruded aluminum post

ferrarra, freesia & hosta

FRAME:

- solid hardwood dowelled construction
- Ferrarra arms are made of molded maple
- all other exposed wood is solid maple
- rubber webbing seat

FOAM:

- terylene covered high density block foam

tux

FRAME:

- solid hardwood, dowelled construction

WEBBING:

- made of elasbelt “Green Line” type 450/S
- latex rubber 47%, ploypropylene 53%
- tensile strength: 815 lbs.

BASE:

- standard modular frame made of 14 gauge welded square steel tubing
- - welded & chrome plated

FOAM:

VC grade foam is used for seat and back

	Seat:	Back:
Density:	2.60 min. lbs./cu.ft lbs./cu.ft	2.00 - 2.15 min.
IFD @ 25%:	41 - 47 lbs.	33 - 38 lbs.
Tensile Strength:	10 lbs./sq. in	10 lbs./sq. in
Elongation	75% min.	75% min.
Recovery Ratio:	45% min.	45% min.
Flammability:	CAL 117	CAL 117
Compression:	CAL 117	CAL 117
Set at 90% max:	8%	8%
Modulus:	2.25 min.	2.25 min.
Hysteresis Loss:	25% max.	25% max.

vasari

FRAME:

- standard modular frame made of 16 gauge welded square tubing
- subframe assembly for seats is 1/8" metal angle iron and 1 1/2" x 1/2" 16 gauge tubing, welded and epoxy powder coated
- seat frame made from 3/4" 16 gauge square tubing

WEBBING:

- made of elasbelt “Green Line” type 450/S
- latex rubber 47%, ploypropylene 53%
- tensile strength: 815 lbs.

FOAM:

VC grade foam is used. Both molded polyurethane and colored block-form foam are used for seat and back.

	Seat:	Back:
Density:	2.60 min.lbs./cu.ft	2.00 - 2.15 lbs./cu.ft
IFD @ 25%:	41 - 47 lbs	33 - 38 lbs
Tensile strength	10 lbs./sq. in	10 lbs./sq. in
Elongation:	75% min	75% min
Recovery ratio:	45% min	45% min
Flammability:	CAL 117	CAL 117
Compression:	CAL 117	CAL 117
set at 90% max:	8%	8%
Compression		
Modulus:	2.25 min	2.25 min
Hysteresis Loss:	25% max	25% max

TRAY:

- surface is MDF, router cut and shaped
- frame is cold rolled steel tube with plate, epoxy powder coated

STANDARD SHIPPING CARTONS:

- recycled foam used to protect chair in box
- double wall cardboard
- recycled and recyclable
- 3" reinforced gum tape (recycled)

vignette swivel and lounge

FORFEITEDSWIVEL:

Frame:

- molded plywood construction

Base:

- satin-chromed steel
- steel column
- glides are made of nylon and steel

Foam:

- high density block foam

COFFEE TABLES:

Surface:

- as specified, MDF, flintwood, natural veneer, marble, or corian

Base:

- satin-chromed steel
- glides are made of nylon and steel

LOUNGE:

Frame:

- plywood construction
- rubber webbing seat

Base:

- chromed steel
- glides are made of polypropylene

Foam:

- high density block foam