construction notes

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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 ASTM D - 3574 - 91
- dynamic fatigue test by constant force pounding; thickness loss = 5% (specification calls for not more than 25%)

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

* exceeds ASTM P – 3770 – 91
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

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 polypropylene 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

<table>
<thead>
<tr>
<th>Seat</th>
<th>Density:</th>
<th>3.2-3.6 lbs./ft³</th>
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UPHOLSTERED BACK FOAM:
• molded, colored, polyurethane foam for back
• HCFC and CFC free
• 0 Global warming factor
• “bumpered” as covered sides to protect furniture

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* exceeds ASTM P-3770-91
contessa

BASE:
• die-cast aluminum legs
• diameter of 27.6”

CASTERS/GLIDES:
• polyamide 6 hard twin-wheeled
• diameter of 5.9”
• optional soft type urethane casters

PNEUMATIC CYLINDER: (GAS LIFT)
• gas-assisted pneumatic cylinder

MECHANISMS:
  Synchro-Tilt:
• die-cast aluminum body
• rubber torsion mechanism

SEAT:
  Seat Slider (depth):
• reinforced plastic (polyamide)
  Seat Structures:
• aluminum die-cast frame
• 2” forward/back adjust in six positions
• levers on left and right of seat control adjust
  Seat Material (mesh type):
• reinforced polyester
• braided for better feel
  • elastic piece-dyed to prevent color fade
  Seat Material (urethane type):
• polyester
• reinforced plastic (polyamide)

BACK:
  Inner Back:
• reinforced polyester
• braided for better feel
• elastic piece-dyed to prevent color fade
  Lumbar System:
• polypropylene pad
• reinforced plastic (nylon) structure

ARMS:
  T-Arms:
• polyurethane pads
• reinforced plastic (nylon) structure

FOAM:
• molded, polyurethane foam for seat
• 0 global warming factor

HEADREST:
• polyurethane pad
• reinforced plastic (nylon) structure
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)
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% Polyamide
- 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 ASTM P – 3770 – 91
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:
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• 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 ASTM - 3574 -91
• dynamic fatigue test by constant force pounding: thickness loss = 5%
  (specification calls for not more than 25%)

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<td>125 lbs</td>
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<td>Recovery Strength @ 25%:</td>
<td>157N</td>
<td>32N</td>
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<td>Recovery Ratio:</td>
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<td>81.4%</td>
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<tr>
<td>Tensile Strength:</td>
<td>35.3 lbs./sq. in.*</td>
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<td>Flammability:</td>
<td>CAL 117</td>
<td>CAL 117</td>
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</tbody>
</table>

* exceeds ASTM – 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 ASTM-D-3574-91
- dynamic fatigue test constant force pounding: thickness loss = 5% (specification call for not more than 25%)

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<thead>
<tr>
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<th>Seat:</th>
<th>Back:</th>
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<tbody>
<tr>
<td>Density:</td>
<td>1.6 - 1.75 lb/cu.ft.</td>
<td>3.1 lb/cu.ft.</td>
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<tr>
<td>IFD:</td>
<td>16 - 22 lbs</td>
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<tr>
<td>IFD @ 65%:</td>
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<tr>
<td>Tensile Strength:</td>
<td>10 lbs./sq. in.</td>
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<tr>
<td>Resiliency:</td>
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<td>45%</td>
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<tr>
<td>Flammability:</td>
<td>CAL 117</td>
<td>CAL 117</td>
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<tr>
<td>Compression Set at 90% max:</td>
<td>8%</td>
<td>8%</td>
</tr>
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</table>
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

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%: 200 N
Recovery Ratio: 85.4%*
Tensile Strength: 35.3 lbs./sq. in. *
Resiliency: 61%
Flammability: CAL 117
* exceeds ASTM P – 3770 – 91
saver 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

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

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<td>3.2-3.6 lbs./ft³</td>
</tr>
<tr>
<td>IFD @ 25%:</td>
<td>10.77 lbs.</td>
<td></td>
</tr>
<tr>
<td>IFD @ 65%:</td>
<td>40 lbs.</td>
<td></td>
</tr>
<tr>
<td>Flammability:</td>
<td>CAL 117</td>
<td>CAL 117</td>
</tr>
</tbody>
</table>
andria & asana

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 pneum atic cylinder
- pneum atic 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 ASTM D - 3574 -91
- dynamic fatigue test by constant force pounding: thickness loss = 5% (specification calls for not more than 25%)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>2.4 - 2.5 min.lbs./cu.ft</td>
</tr>
<tr>
<td>IFD @ 25%</td>
<td>48 - 57 lbs.</td>
</tr>
<tr>
<td>IFD @ 65%</td>
<td>125 lbs</td>
</tr>
<tr>
<td>Tensile Strength: @ 25%</td>
<td>17 lbs./sq.in.</td>
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<tr>
<td>Elongation</td>
<td>120 min. 95.5% min.</td>
</tr>
<tr>
<td>Tensile Strength: @ 25%</td>
<td>157 N</td>
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<tr>
<td>Resiliency</td>
<td>55%</td>
</tr>
<tr>
<td>Flammability: CAL 117</td>
<td>35.3lbs./sq. in.*</td>
</tr>
<tr>
<td>Compression Seat at 90% Max:</td>
<td>10%</td>
</tr>
<tr>
<td>Compression Modulus:</td>
<td>2.2 min.</td>
</tr>
</tbody>
</table>
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 ASTM P – 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 integrated 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)
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)
construction notes

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

<table>
<thead>
<tr>
<th>Density</th>
<th>Seat: 3.2-3.6 lbs./ft³</th>
<th>Back: 3.2-3.6 lbs./ft³</th>
</tr>
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<tbody>
<tr>
<td>IFD @ 25%</td>
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<td></td>
</tr>
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<td>40 lbs.</td>
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<tr>
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<td>CAL 117</td>
<td>CAL 117</td>
</tr>
</tbody>
</table>
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

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

* exceeds ASTM P – 3770 – 91
construction notes

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

| Density: | Seat: 3.2-3.6 lbs./ft³ | Back: 3.2-3.6 lbs./ft³ |
| IFD @ 25%: | 10.77 lbs. | 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
- 0.5 lb urethane 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
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)
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 polyurethane 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

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

**Foam:**
VC grade foam is used. Colored blockform foam is used for seat.

<table>
<thead>
<tr>
<th>Density:</th>
<th>Seat:</th>
<th>Back:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.6 min. lbs./cu.ft</td>
<td>1.6 - 1.75 lbs./cu.ft</td>
<td></td>
</tr>
<tr>
<td>IFD @ 25%:</td>
<td>41 - 47 lbs.</td>
<td>16 - 22 lbs.</td>
</tr>
<tr>
<td>Tensile Strength:</td>
<td>10 lbs./sq. in</td>
<td>10 lbs./sq. in</td>
</tr>
<tr>
<td>Elongation:</td>
<td>75% min.</td>
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<tr>
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<tr>
<td>Compression:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modulus:</td>
<td>2.25 min.</td>
<td>2.25 min.</td>
</tr>
<tr>
<td>Hysteresis Loss:</td>
<td>25% max.</td>
<td>25% max.</td>
</tr>
</tbody>
</table>
**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

<table>
<thead>
<tr>
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<tbody>
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<td>Elongation</td>
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<td>Modulus:</td>
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<td>2.25 min.</td>
</tr>
<tr>
<td>Hysteresis Loss:</td>
<td>25% max.</td>
<td>25% max.</td>
</tr>
</tbody>
</table>

**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

<table>
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<th>Base:</th>
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<tr>
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<td>2.25 min.</td>
</tr>
<tr>
<td>Hysteresis Loss:</td>
<td>25% max.</td>
<td>25% max.</td>
</tr>
</tbody>
</table>
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
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

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<td>2.60 min. lbs./cu.ft</td>
<td>2.00 - 2.15 min. lbs./cu.ft</td>
</tr>
<tr>
<td>IFD @ 25%:</td>
<td>41 - 47 lbs.</td>
<td>33 - 38 lbs.</td>
</tr>
<tr>
<td>Tensile Strength:</td>
<td>10 lbs./sq. in</td>
<td>10 lbs./sq. in</td>
</tr>
<tr>
<td>Elongation</td>
<td>75% min.</td>
<td>75% min.</td>
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<tr>
<td>Recovery Ratio:</td>
<td>45% min.</td>
<td>45% min.</td>
</tr>
<tr>
<td>Flammability:</td>
<td>CAL 117</td>
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</tr>
<tr>
<td>Compression:</td>
<td>CAL 117</td>
<td>CAL 117</td>
</tr>
<tr>
<td>Set at 90% max:</td>
<td>8%</td>
<td>8%</td>
</tr>
<tr>
<td>Modulus:</td>
<td>2.25 min.</td>
<td>2.25 min.</td>
</tr>
<tr>
<td>Hysteresis Loss:</td>
<td>25% max.</td>
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</tr>
</tbody>
</table>
construction notes

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%, polypropylene 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.

<table>
<thead>
<tr>
<th></th>
<th>Seat</th>
<th>Back</th>
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<tbody>
<tr>
<td>Density</td>
<td>2.60 min. lbs./cu.ft</td>
<td>2.00 - 2.15 lbs./cu.ft</td>
</tr>
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<td>Compression Modulus:</td>
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<tr>
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<td>25% max</td>
<td>25% max</td>
</tr>
</tbody>
</table>

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)
FORFEITED SWIVEL:

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