Performance Information 3
Methodology and Dimension Description 4
Seating Measurements 6
Multipurpose Chair 8
Lounge Chair 10
Ottoman 12
Casters and Glides 13

Specifications are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice in finishes, materials, specifications, and models and to discontinue models and finishes.

For specific information about features and options available on each model, prices, and ordering information, please refer to the current Herman Miller price book.

© 2009 Herman Miller, Inc., Zeeland, Michigan
® ®HermanMiller, ®
™ Setu, Lyris, H-Alloy, and Kinematic Spine are among the trademarks of Herman Miller, Inc.
Armitel is a registered trademark of Royal DSM N.V.
Hytrel is a registered trademark of DuPont.
Setu™ Chairs
Performance Information

Setu chairs meet or exceed all American National Standards Institute/Business and Institutional Furniture Manufacturer's Association (ANSI/ BIFMA) performance requirements per ANSI X5.1-2002, which includes the following tests:

- Back strength test (static), type I, Section 5
- Base test (static), Section 7
- Drop test (dynamic), Section 8
- Swivel test, Section 9
- Tilt mechanism test, Section 10
- Seating durability tests (cyclic), Section 11
- Stability test, Section 12
- Arm strength test (vertical), Section 13
- Arm strength test (horizontal), Section 14
- Arm durability test (cyclic), Section 20
- Back durability test (cyclic), type I, Section 15
- Caster/chair base durability test, Section 17

In addition, products have been designed and tested to Herman Miller requirements, which are derived from these ANSI minimum requirements but are much more comprehensive and generally exceed the ANSI requirements. Herman Miller's Quality Assurance Group randomly and periodically tests standard products (seating) to ensure ongoing compliance to ANSI/BIFMA and Herman Miller corporate standards.
The following measurements are displayed in the subsequent seating measurement charts. The measurements reflect dimensional information necessary for space planning and standards/codes compliance data. The measurements relevant to standards/codes were taken with a Chair Measuring Device (CMD) in accordance with the BIFMA G-1 2002 ergonomic guideline. Other measurements were taken using a variety of techniques; the following definitions give approximate descriptions of the measurements.

--- Setu Multipurpose Chair measurement illustration pending ---

**Seat Height**
Distance between the floor and the compressed seat cushion where the user’s thigh meets the seat.

**Seat Depth**
Distance from the lumbar prominence to the front edge of the seat.

**Seat Width**
Width of the chair seat at the spindle center.

**Backrest Height**
Distance from the seat cushion at centerline to the highest point of the chair back.

**Backrest Width**
Width of the backrest at the narrowest point of the lumbar support zone.

**Lumbar Support Height**
Height of the lumbar support region as measured from the compressed seat cushion to the apex of the lumbar support.

**Overall Height (Maximum)***
Distance from the floor to the highest point of a chair back (unloaded), with seat height at highest position.

**Overall Depth***
The distance from the forward caster position to the top of the backrest at full recline.

**Seat Tilt Range**
Angle of the seat from upright to fully reclined positions in relation to the floor.

**Back Tilt Range**
Angle of the back from upright to fully reclined positions in relation to the floor.

*Herman Miller measurement; not defined by standards/codes.
Setu™ Chairs
Methodology and Dimension Description

--- Setu Multipurpose Chair measurement illustration pending ---

Seat Pan Angle
Seat angle in relation to the floor.

Backrest-to-Seat Angle Range
Angle between the backrest and the seat from upright to fully reclined positions.

Armrest Height
Distance from the compressed seat cushion to the top of an armrest.

Armrests, Inside Measurement
Width between the armrests.

Armrests, Outside Measurement*
Overall distance from the outer edge of one armrest to the outer edge of the other armrest.

Base Diameter, Outside
Overall diameter of the base.

*Herman Miller measurement; not defined by standards/codes.
### Multipurpose Chair: 5-Star Base, Standard-Height Range

<table>
<thead>
<tr>
<th></th>
<th>Seat Height</th>
<th>Seat Depth</th>
<th>Seat Width</th>
<th>Seat Pan Angle</th>
<th>Seat to Back Angle</th>
<th>Backrest Height</th>
<th>Lumbar Support Height</th>
<th>Seat Back Width</th>
<th>Weight (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fixed Arms</strong></td>
<td>CQ51MA</td>
<td>15.7”-20.4”</td>
<td>15.0”</td>
<td>18.9”</td>
<td>8.3°</td>
<td>94.5°</td>
<td>19.8°</td>
<td>10.2”</td>
<td>18.7”</td>
</tr>
<tr>
<td><strong>No Arms</strong></td>
<td>CQ51MN</td>
<td>15.7”-20.4”</td>
<td>15.0”</td>
<td>18.9”</td>
<td>8.3°</td>
<td>94.5°</td>
<td>19.8°</td>
<td>10.2”</td>
<td>18.7”</td>
</tr>
</tbody>
</table>

### Multipurpose Chair: 5-Star Base, High-Height Range

<table>
<thead>
<tr>
<th></th>
<th>Seat Height</th>
<th>Seat Depth</th>
<th>Seat Width</th>
<th>Seat Pan Angle</th>
<th>Seat to Back Angle</th>
<th>Backrest Height</th>
<th>Lumbar Support Height</th>
<th>Seat Back Width</th>
<th>Weight (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fixed Arms</strong></td>
<td>CQ52MA</td>
<td>17.5”-21.7”</td>
<td>15.0”</td>
<td>18.9”</td>
<td>8.3°</td>
<td>94.5°</td>
<td>19.8°</td>
<td>10.2”</td>
<td>18.7”</td>
</tr>
<tr>
<td><strong>No Arms</strong></td>
<td>CQ52MN</td>
<td>17.5”-21.7”</td>
<td>15.0”</td>
<td>18.9”</td>
<td>8.3°</td>
<td>94.5°</td>
<td>19.8°</td>
<td>10.2”</td>
<td>18.7”</td>
</tr>
</tbody>
</table>

### Multipurpose Chair: 4-Star Base, Swivel, Fixed Height

<table>
<thead>
<tr>
<th></th>
<th>Seat Height</th>
<th>Seat Depth</th>
<th>Seat Width</th>
<th>Seat Pan Angle</th>
<th>Seat to Back Angle</th>
<th>Backrest Height</th>
<th>Lumbar Support Height</th>
<th>Seat Back Width</th>
<th>Weight (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fixed Arms</strong></td>
<td>CQ53MA</td>
<td>18.5”</td>
<td>15.0”</td>
<td>18.9”</td>
<td>8.3°</td>
<td>94.5°</td>
<td>19.8°</td>
<td>10.2”</td>
<td>18.7”</td>
</tr>
<tr>
<td><strong>No Arms</strong></td>
<td>CQ53MN</td>
<td>18.5”</td>
<td>15.0”</td>
<td>18.9”</td>
<td>8.3°</td>
<td>94.5°</td>
<td>19.8°</td>
<td>10.2”</td>
<td>18.7”</td>
</tr>
</tbody>
</table>
## Lounge Chair: 5-Star Base, Swivel, Fixed Height

<table>
<thead>
<tr>
<th></th>
<th>Seat Height</th>
<th>Seat Depth</th>
<th>Seat Width</th>
<th>Seat Pan Angle</th>
<th>Seat to Back Angle</th>
<th>Backrest Height</th>
<th>Lumbar Support Height</th>
<th>Seat Back Width</th>
<th>Weight (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fixed Arms</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CQ811MA</td>
<td>16.75&quot;</td>
<td>16.0&quot;</td>
<td>21.0&quot;</td>
<td>16.0°</td>
<td>86.1°</td>
<td>27.5°</td>
<td>5.0&quot;</td>
<td>20.5&quot;</td>
<td>21</td>
</tr>
<tr>
<td><strong>No Arms</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CQ811MN</td>
<td>16.75&quot;</td>
<td>16.0&quot;</td>
<td>21.0&quot;</td>
<td>16.0°</td>
<td>86.1°</td>
<td>27.5°</td>
<td>5.0&quot;</td>
<td>20.5&quot;</td>
<td>21</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Arm Pads Inside</th>
<th>Arm Pads Outside</th>
<th>Overall Height</th>
<th>Seat to Back Angle Range</th>
<th>Back</th>
<th>Seat</th>
<th>Armpad Height Outside</th>
<th>Centerline</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fixed Arms</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CQ811MA</td>
<td>21.0&quot;</td>
<td>26.0&quot;</td>
<td>42.75&quot;</td>
<td>86.1° - 102.1°</td>
<td>102.1°/122.1°</td>
<td>16.0°/25.0°</td>
<td>8.5&quot;</td>
<td>25.9&quot;/25&quot;</td>
</tr>
<tr>
<td><strong>No Arms</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CQ811MN</td>
<td>N/A</td>
<td>N/A</td>
<td>42.75&quot;</td>
<td>86.1° - 102.1°</td>
<td>102.1°/122.1°</td>
<td>16.0°/25.0°</td>
<td>N/A</td>
<td>25.9&quot;/25&quot;</td>
</tr>
</tbody>
</table>

## Ottoman: 4-Star Base

<table>
<thead>
<tr>
<th></th>
<th>Height</th>
<th>Depth</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>CQ823M</td>
<td>18.8&quot;</td>
<td>20.5&quot;</td>
<td>21.75&quot;</td>
</tr>
</tbody>
</table>
Description

CQ51M
CQ52M
CQ53M

This multipurpose chair has a one-piece Lyris™ suspension material between outer composite polymer frames. The Kinematic Spine™ technology is integrated into the chair’s back frames to allow for varying recline positions and continuous support. The H-Alloy™ base material is a durable and anti-corrosive aluminum, eliminating the need for polishing or protective coatings. The chair has a standard-height or high-height pneumatic height adjustment.

Base choices include a 5-star base with casters or a 4-star base with glides.

Arm choices include no arms or fixed-height ribbon arms.

Chair is tested and warranted for use by persons 300 pounds and under.

Construction

Seat and Back
The seat and back surfaces are constructed from a single sheet of mesh material called Lyris. The Lyris material is constructed from Hytrel® monofilaments in the horizontal direction and polyester fibers in the vertical direction. The mesh is overmolded with Arnitel® strips which are pressed into the Kinematic Spine to hold the mesh in place. The strips are secured on each with a steel clip. The mesh material is stretched across two Kinematic Spine support members. The Kinematic Spine support members are made out of layered glass filled polypropylene and elastomeric composite materials. The back support of the Kinematic Spine is held in place with a glass filled Nylon composite spanner.

Arms (Optional)
The Setu multipurpose chair shall be available with no arms or fixed-height ribbon arms. Each armrest shall have a glass filled Nylon 6 loop arm support. The arm is attached to the Kinematic Spine at the top and bottom of the arm support with two bolts.

Chairs shall have 9"-by-2.5" armpads with a lightly textured surface. The armpad is made from a thermoplastic elastomer material and is attached to the loop arm through an overmolding process.

Tilt
The Setu tilt mechanism shall be an H-Alloy aluminum yoke, an H-Alloy front link, and a glass filled nylon rear link. There are no springs in the tilt. The spring force comes from the bending of the Kinematic Spine.

No tilt tension adjustment is needed with the Setu tilt. The tilt mechanism senses the occupant’s weight and provides the corresponding tilt tension.

Base
The 4- and 5-star bases shall be a corrosion resistant H-Alloy aluminum, with a bead blasted textured surface. The chair shall swivel 360°. Chairs shall be furnished with interchangeable casters. See the “Casters and Glides” section for more information. The 5-star base is only available with casters. The 4-star base is only available with a swivel glide.
**Construction continued**

The chair base shall house a unitized pneumatic cylinder seat height adjustment mechanism contained in 2 steel tubes. The inner tube shall slide and rotate in a bushing within an outer tube. The outer tube shall have a black finish and a tapered end that shall be pressed into the base. The inner tube shall be a metallic finish and shall be pressed into the yoke of the chair.

The seat height lever is located under the seat on the right hand side and is activated by pulling upwards. The activator shall be polycarbonate.

Pneumatic cylinders shall be available to support two seat height ranges. There is also a fixed height cylinder available for use with the 4-star base. Pneumatic cylinders can be interchanged or replaced on site. (See *Service Parts* in Kiosk.)

See “Adjustments” for seat-height ranges.

---

**Adjustments**

**Seat Height**

The translucent seat lever is located under the right hand side of the seat. Lift weight to raise the seat height; lower the height while seated.

Two seat height ranges shall be available with the 5-star base for a total seat height adjustment range of 6”.

- Standard-height range: 15.7" – 20.4"
- High-height range: 17.5 – 21.7"

The 4-star base has a fixed seat height.

- Fixed-height: 18.5"

---

**Performance Data**

The Setu multipurpose chair shall be rated to support a maximum of 300 pounds.

See “Seating Measurements” for chair dimensions.
Description

CQ811

This lounge chair has Lyris™ suspension material between outer composite polymer frames. The Kinematic Spine™ technology is integrated into the chair’s back frames to allow for varying recline positions and continuous support. The chair has a fixed seat height and a 5-star swivel base with glides. The H-Alloy™ base material is a durable and anti-corrosive aluminum, eliminating the need for polishing or protective coatings.

Arm choices include no arms or fixed-height ribbon arms.

Chair is tested and warranted for use by persons 300 pounds and under.

Construction

Seat and Back

The seat and back surfaces are constructed from a single sheet of mesh material called Lyris. The Lyris material is constructed from Hytrel® monofilaments in the horizontal direction and polyester fibers in the vertical direction. The mesh is overmolded with Arnitel® strips which are pressed into the Kinematic Spine to hold the mesh in place. The strips are secured on each with a steel clip. The mesh material is stretched across two Kinematic Spine support members. The Kinematic Spine support members are made out of layered glass filled polypropylene and elastomeric composite materials. The back support of the Kinematic Spine is held in place with a glass filled Nylon composite spanner.

Arms (Optional)

The Setu lounge chair shall be available with no arms or fixed-height ribbon arms. Each armrest shall have a glass filled Nylon 6 loop arm support. The arm is attached to the Kinematic Spine support at the top and bottom of the arm support with two bolts.

Chairs shall have 9"-by-2.5" armpads with a lightly textured surface. The armpad is made from a thermoplastic elastomer material and is attached to the loop arm through an overmolding process.

Tilt

The Setu tilt mechanism shall be an H-Alloy aluminum yoke, an H-Alloy front link, and an H-alloy rear link. There are no springs in the tilt. The spring force comes from the bending of the Kinematic Spine supports.

No tilt tension adjustment is needed with the Setu tilt. The tilt mechanism senses the occupant’s weight and provides the corresponding tilt tension.

Base

The 5-star base shall be a corrosion resistant H-Alloy aluminum, with a bead blasted textured surface. The chair shall swivel 360°. The 5-star for on the Setu lounge chair is only available with a fixed glide. See the “Casters and Glides” section for glide details.
## Construction
The chair base shall house a fixed height cylinder contained in 2 steel tubes. The inner tube shall rotate in a bushing within an outer tube. The outer tube shall have a black finish and a tapered end that shall be pressed into the base. The inner tube shall have a metallic finish and shall be pressed into the yoke of the chair.

## Seat Height
The chair has a fixed seat height of 16.75”.

## Performance Data
The Setu lounge chair shall be rated to support a maximum of 300 pounds.

See “Seating Measurements” for chair dimensions.
### Description

**CQ823**

This ottoman has Lyris™ suspension material with a composite polymer frame, a 4-star base, and glides.

### Construction

#### Horizontal Surface

The horizontal surface is constructed from a single sheet of mesh material called Lyris. The Lyris material is constructed from Hytrel® monofilaments in the horizontal direction and polyester fibers in the vertical direction. The mesh is overmolded with Arnitel® strips which are pressed into the frame to hold the mesh in place. The strips are secured with a steel clip.

#### Support Structure

The frame support members are made out of a glass filled Nylon material. Support members are held in place with an H-alloy yoke.

#### Base

The 4-star base shall be a corrosion resistant H-Alloy aluminum, with a bead blasted textured surface. The 4-star base is only available with a fixed glide. See the “Casters and Glides” section for glide details.

### Performance Data

The Setu ottoman shall be rated to support a maximum of 300 pounds.
<table>
<thead>
<tr>
<th>Caster or Glide Order Number</th>
<th>For Use With These Bases</th>
<th>Size (Diameter)</th>
<th>Type</th>
<th>Materials</th>
<th>Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>BB</td>
<td>5-star</td>
<td>2 1/2&quot;</td>
<td>hard double wheels</td>
<td>black nylon wheels and yoke</td>
<td>carpet</td>
</tr>
<tr>
<td>C9</td>
<td>5-star</td>
<td>2 1/2&quot;</td>
<td>double wheels with internal brake</td>
<td>black nylon wheels and yoke, soft polyurethane tread</td>
<td>hard floors or carpet</td>
</tr>
<tr>
<td>H9</td>
<td>5-star</td>
<td>2 5/8&quot;</td>
<td>double wheels</td>
<td>translucent polycarbonate wheel with nylon yoke and soft polyurethane tread</td>
<td>hard floors or carpet</td>
</tr>
<tr>
<td>X8</td>
<td>4-star</td>
<td>2 3/8&quot;</td>
<td>swivel glide</td>
<td>black nylon</td>
<td>hard floors or carpet</td>
</tr>
<tr>
<td>76</td>
<td>5-star Lounge Chair and 4-star Ottoman</td>
<td>2 3/8&quot;</td>
<td>fixed glide</td>
<td>black nylon</td>
<td>hard floors or carpet</td>
</tr>
</tbody>
</table>