

Setu™ Chairs

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

®  Herman Miller, 

™ Setu, Lyris, H-Alloy, and Kinematic Spine are among the trademarks of Herman Miller, Inc.

Arnitel is a registered trademarks of Royal DSM N.V.

Hytrel is a registered trademark of DuPont.

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 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.

Setu™ Chairs

Seating Measurements

Multipurpose Chair: 5-Star Base, Standard-Height Range									
	Seat Height	Seat Depth	Seat Width	Seat Pan Angle	Seat to Back Angle	Backrest Height	Lumbar Support Height	Seat Back Width	Weight (Pounds)
Fixed Arms									
CQ51MA	15.7"-20.4"	15.0"	18.9"	8.3°	94.5°	19.8"	10.2"	18.7"	19
No Arms									
CQ51MN	15.7"-20.4"	15.0"	18.9"	8.3°	94.5°	19.8"	10.2"	18.7"	18

					Tilt Range			Base Diameter	
	Arm Pads Inside	Arm Pads Outside	Overall Height	Seat to Back Angle Range	Back	Seat	Armpad Height	Outside	Centerline
Fixed Arms									
CQ51MA	19"	24"	37.4"	94.5° - 104.5°	102.8°/121.3°	8.3°/16.9°	8.5"	25.9"	25"
No Arms									
CQ51MN	N/A	N/A	37.4"	94.5° - 104.5°	102.8°/121.3°	8.3°/16.9°	N/A	25.9"	25"

Multipurpose Chair: 5-Star Base, High-Height Range									
	Seat Height	Seat Depth	Seat Width	Seat Pan Angle	Seat to Back Angle	Backrest Height	Lumbar Support Height	Seat Back Width	Weight (Pounds)
Fixed Arms									
CQ52MA	17.5"-21.7"	15.0"	18.9"	8.3°	94.5°	19.8"	10.2"	18.7"	19
No Arms									
CQ52MN	17.5"-21.7"	15.0"	18.9"	8.3°	94.5°	19.8"	10.2"	18.7"	18

					Tilt Range			Base Diameter	
	Arm Pads Inside	Arm Pads Outside	Overall Height	Seat to Back Angle Range	Back	Seat	Armpad Height	Outside	Centerline
Fixed Arms									
CQ52MA	19"	24"	38.6"	94.5° - 104.5°	102.8°/121.3°	8.3°/16.9°	8.5"	25.9"	25"
No Arms									
CQ52MN	N/A	N/A	38.6"	94.5° - 104.5°	102.8°/121.3°	8.3°/16.9°	N/A	25.9"	25"

Multipurpose Chair: 4-Star Base, Swivel, Fixed Height									
	Seat Height	Seat Depth	Seat Width	Seat Pan Angle	Seat to Back Angle	Backrest Height	Lumbar Support Height	Seat Back Width	Weight (Pounds)
Fixed Arms									
CQ53MA	18.5"	15.0"	18.9"	8.3°	94.5°	19.8"	10.2"	18.7"	19
No Arms									
CQ53MN	18.5"	15.0"	18.9"	8.3°	94.5°	19.8"	10.2"	18.7"	18

					Tilt Range			Base Diameter	
	Arm Pads Inside	Arm Pads Outside	Overall Height	Seat to Back Angle Range	Back	Seat	Armpad Height	Outside	Centerline
Fixed Arms									
CQ53MA	18.5"	24"	36.0"	94.5° - 104.5°	102.8°/121.3°	8.3°/16.9°	8.5"	25.9"	25"
No Arms									
CQ53MN	N/A	N/A	36.0"	94.5° - 104.5°	102.8°/121.3°	8.3°/16.9°	N/A	25.9"	25"

Setu™ Chairs

Seating Measurements

7

Lounge Chair: 5-Star Base, Swivel, Fixed Height									
	Seat Height	Seat Depth	Seat Width	Seat Pan Angle	Seat to Back Angle	Backrest Height	Lumbar Support Height	Seat Back Width	Weight (Pounds)
Fixed Arms									
CQ811MA	16.75"	16.0"	21.0"	16.0°	86.1°	27.5"	5.0"	20.5"	21
No Arms									
CQ811MN	16.75"	16.0"	21.0"	16.0°	86.1°	27.5"	5.0"	20.5"	21

					Tilt Range			Base Diameter	
	Arm Pads Inside	Arm Pads Outside	Overall Height	Seat to Back Angle Range	Back	Seat	Armpad Height	Outside	Centerline
Fixed Arms									
CQ811MA	21.0"	26.0"	42.75"	86.1° - 102.1°	102.1°/122.1°	16.0°/25.0°	8.5"	25.9"	25"
No Arms									
CQ811MN	N/A	N/A	42.75"	86.1° - 102.1°	102.1°/122.1°	16.0°/25.0°	N/A	25.9"	25"

Ottoman: 4-Star Base			
	Height	Depth	Width
CQ823M	18.8"	20.5"	21.75"

Description	CQ51M CQ52M CQ53M
	<p>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.</p> <p>Base choices include a 5-star base with casters or a 4-star base with glides.</p> <p>Arm choices include no arms or fixed-height ribbon arms.</p> <p>Chair is tested and warranted for use by persons 300 pounds and under.</p>
<hr/> Construction	<p>Seat and Back</p> <p>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.</p> <p>Arms (Optional)</p> <p>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.</p> <p>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.</p> <p>Tilt</p> <p>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.</p> <p>No tilt tension adjustment is needed with the Setu tilt. The tilt mechanism senses the occupant's weight and provides the corresponding tilt tension.</p> <p>Base</p> <p>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.</p>

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 <p>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.</p> <p>Arm choices include no arms or fixed-height ribbon arms.</p> <p>Chair is tested and warranted for use by persons 300 pounds and under.</p>
Construction	Seat and Back <p>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.</p> Arms (Optional) <p>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.</p> <p>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.</p> Tilt <p>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.</p> <p>No tilt tension adjustment is needed with the Setu tilt. The tilt mechanism senses the occupant's weight and provides the corresponding tilt tension.</p> Base <p>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.</p>

<i>Construction continued</i>	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	<p>The Setu lounge chair shall be rated to support a maximum of 300 pounds.</p> <p>See "Seating Measurements" for chair dimensions.</p>

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.

Caster or Glide Order Number	For Use With These Bases	Size (Diameter)	Type	Materials	Use
BB	5-star	2 1/2"	hard double wheels	black nylon wheels and yoke	carpet
C9	5-star	2 1/2"	double wheels with internal brake	black nylon wheels and yoke, soft polyurethane tread	hard floors or carpet
H9	5-star	2 5/8"	double wheels	translucent polycarbonate wheel with nylon yoke and soft polyurethane tread	hard floors or carpet
X8	4-star	2 3/8"	swivel glide	black nylon	hard floors or carpet
76	5-star Lounge Chair and 4-star Ottoman	2 3/8"	fixed glide	black nylon	hard floors or carpet