



## Cosm<sup>®</sup> Chairs

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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 Cosm<sup>®</sup> Chairs *Price Book*.

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## Work Chair Performance Information

Herman Miller, Inc., products are designed, developed, and tested to meet and exceed industry standards.

Cosm work chairs and stools meet or exceed all American National Standards Institute/Business and Institutional Furniture Manufacturer's Association (ANSI/BIFMA) performance requirements per ANSI X5.1-2011, which includes the following tests:

- Back strength test (static), type I, Section 5
- Back strength test (static), types II and III, Section 6
- 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 21
- Back durability test (cyclic), type I, Section 15
- Back durability test (cyclic), type II and type III, Section 16
- 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 exceeded 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.

### COMPLIANCE & CERTIFICATION

#### Compliance FR

- California Technical Bulletin 117-2013 – all HMI textiles used on Cosm comply with Cal TB 117-2013. Standard chairs contain no flame retardant chemicals.
- Cal 117-2013 is intended to determine the flame retardancy of resilient filling materials and textiles in upholstered furniture.

#### Ergonomics

- ANSI-HFES 100-2007 (all mandatory requirements)
- BIFMA G1-2013
- EN 1335-1:2000
- AS/NZS 4438

#### Sustainability Certifications/Compliance

- level™ 3 certified– BIFMA e3 Sustainability Standard (work & side chairs)
- Cradle-to-Cradle™ Silver certified
- Complies with ANSI/BIFMA M7.1-2001 and ANSI/BIFMA X7.1.
- Please contact the Cosm Environmental Product Declaration for more information.

## Methodology and Dimension Description

The following measurements are displayed in the subsequent measurement charts. The measurements reflect dimensional information necessary for space planning and standards/codes compliance data. The measurements relevant to standards/codes (indicated with a \*) were taken with a Chair Measuring Device (CMD) in accordance with the **BIFMA/CMD-1-2002 Universal Measurement Procedure for the Use of BIFMA Chair Measuring Device** guideline.

**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 within the indicated measuring zone.

**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 of the lumbar support region as measured from the base of the chair back to the top and bottom of the lumbar support areas.

**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/extended seat to the back. Center measured with the chair at an upright position.

**Product Weight**

Does not include packaging

**Tilt Range\***

Angle of the back from upright to fully reclined positions in relation to the floor.

**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.

**Armrest Length**

Distance from back edge of armrest to front edge of armrest.

**Armrests, Inside Measurement Width**

between the armrests.

**Overall Width**

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.

**Seating Measurements – Work Chairs**

<b>Work Chairs: Low-Back</b>										
Chair Description		Overall Height	Overall Width	Overall Depth	Weight (pounds)	Seat Height	Seat Depth	Seat Width	Backrest Height	Backrest Width
<b>Leaf Arms</b>										
Standard	FLC141SFJ FLC142SFJ FLC143SFJ	34.0" - 40.6"	29.3"	26.7"	32.0 lbs	Std. height: 14.8"-20.9"	15.9"	20.5"	19.2"	18.4"
Dipped in Color	FLC341SFJ FLC342SFJ FLC343SFJ					Ext. height: 16.1-21.4"				
<b>Height Adjustable Arms</b>										
Standard	FLC141SFH FLC142SFH FLC143SFH	34.0" - 40.6"	28.9"	26.7"	34.2 lbs	Std. height: 14.8"-20.9"	15.9"	20.5"	19.2"	18.4"
Dipped in Color	N/A					Ext. height: 16.1-21.4"				
<b>Fixed Arms</b>										
Standard	FLC141SFP FLC142SFP FLC143SFP	34.0" - 40.6"	26.7"	26.7"	31.8 lbs	Std. height: 14.8"-20.9"	15.9"	20.5"	19.2"	18.4"
Dipped in Color	FLC341SFP FLC342SFP FLC343SFP					Ext. height: 16.1-21.4"				
<b>No Arms</b>										
Standard	FLC141SFN FLC142SFN FLC143SFN	34.0" - 40.6"	26.7"	26.7"	29.2 lbs	Std. height: 14.8"-20.9"	15.9"	20.5"	19.2"	18.4"
Dipped in Color	FLC341SFN FLC342SFN FLC343SFN					Ext. height: 16.1-21.4"				

Seat Pan – Backrest Angle	Seat Pan Angle	Tilt Range	Lumbar Support	Armrest Clearance /Inside Distance	Base Diameter Outside	Armrest Height	Armrest Length
94.8°-107.1°	1.6°-13.7°	96.4°-120.8°	7.5" - 8.7"	18.5" (leaf)	27.8"	N/A	10.0"
94.8°-107.1°	1.6°-13.7°	96.4°-120.8°	7.5" - 8.7"	20.0" (adj.)	27.8"	7.3"-11.7"	8.8"
94.8°-107.1°	1.6°-13.7°	96.4°-120.8°	7.5" - 8.7"	19.1" (fixed)	27.8"	8.6"	9.3"
94.8°-107.1°	1.6°-13.7°	96.4°-120.8°	7.5" - 8.7"	N/A	27.8"	N/A	N/A

# Cosm® Chairs

<b>Work Chairs: Mid-back</b>										
Chair Description		Overall Height	Overall Width	Overall Depth	Weight (pounds)	Seat Height	Seat Depth	Seat Width	Backrest Height	Backrest Width
<b>Leaf Arms</b>										
Standard	FLC151SFJ FLC152SFJ FLC153SFJ	38.9" - 45.5"	29.3"	26.7"	32.7 lbs	Std. height: 14.8"-20.9"	15.9"	20.5"	24.1"	18.3"
Dipped in Color	FLC351SFJ FLC352SFJ FLC353SFJ					Ext. height: 16.1-21.4"				
<b>Height Adjustable Arms</b>										
Standard	FLC151SFH FLC152SFH FLC153SFH	38.9" - 45.5"	28.9"	26.7"	34.9 lbs	Std. height: 14.8"-20.9"	15.9"	20.5"	24.1"	18.3"
Dipped in Color	N/A					Ext. height: 16.1-21.4"				
<b>Fixed Arms</b>										
Standard	FLC151SFP FLC152SFP FLC153SFP	38.9" - 45.5"	26.7"	26.7"	32.5 lbs	Std. height: 14.8"-20.9"	15.9"	20.5"	24.1"	18.3"
Dipped in Color	FLC351SFP FLC352SFP FLC353SFP					Ext. height: 16.1-21.4"				
<b>No Arms</b>										
Standard	FLC151SFN FLC152SFN FLC153SFN	38.9" - 45.5"	26.7"	26.7"	29.9 lbs	Std. height: 14.8"-20.9"	15.9"	20.5"	24.1"	18.3"
Dipped in Color	FLC351SFN FLC352SFN FLC353SFN					Ext. height: 16.1-21.4"				

Seat Pan – Backrest Angle	Seat Pan Angle	Tilt Range	Lumbar Support	Armrest Clearance /Inside Distance	Base Diameter Outside	Armrest Height	Armrest Length
94.7°-107.2°	1.0°-13.5°	95.7°-120.7°	7.5" - 8.7"	18.5" (leaf)	27.8"	N/A	10.0"
94.7°-107.2°	1.0°-13.5°	95.7°-120.7°	7.5" - 8.7"	20.0" (adj.)	27.8"	7.3"-11.7"	8.8"
94.7°-107.2°	1.0°-13.5°	95.7°-120.7°	7.5" - 8.7"	19.1" (fixed)	27.8"	8.6"	9.3"
94.7°-107.2°	1.0°-13.5°	95.7°-120.7°	7.5" - 8.7"	N/A	27.8"	N/A	N/A

# Cosm® Chairs

<b>Work Chairs: High Back</b>										
Chair Description		Overall Height	Overall Width	Overall Depth	Weight (pounds)	Seat Height	Seat Depth	Seat Width	Backrest Height	Backrest Width
<b>Leaf Arms</b>										
Standard	FLC161SFJ FLC162SFJ FLC163SFJ	45.0"- 51.6"	29.3"	26.7"	33.3 lbs	Std. height: 14.8"-20.9"  Ext. height: 16.1-21.4"	15.9"	20.5"	30.2"	18.3"
Dipped in Color	FLC361SFJ FLC362SFJ FLC363SFJ									
<b>Height Adjustable Arms</b>										
Standard	FLC161SFH FLC162SFH FLC163SFH	45.0"- 51.6"	28.9"	26.7"	35.5 lbs	Std. height: 14.8"-20.9"  Ext. height: 16.1-21.4"	15.9"	20.5"	30.2"	18.3"
Dipped in Color	N/A									
<b>Fixed Arms</b>										
Standard	FLC161SFP FLC162SFP FLC163SFP	45.0"- 51.6"	26.7"	26.7"	33.1 lbs	Std. height: 14.8"-20.9"  Ext. height: 16.1-21.4"	15.9"	20.5"	30.2"	18.3"
Dipped in Color	FLC361SFP FLC362SFP FLC363SFP									
<b>No Arms</b>										
Standard	FLC161SFN FLC162SFN FLC163SFN	45.0"- 51.6"	26.7"	26.7"	30.5 lbs	Std. height: 14.8"-20.9"  Ext. height: 16.1-21.4"	15.9"	20.5"	30.2"	18.3"
Dipped in Color	FLC361SFN FLC362SFN FLC363SFN									

Seat Pan – Backrest Angle	Seat Pan Angle	Tilt Range	Lumbar Support	Armrest Clearance /Inside Distance	Base Diameter Outside	Armrest Height	Armrest Length
94.1°-106.9°	1.2°-14.0°	95.3°-120.9°	7.5" - 8.7"	18.5" (leaf)	27.8"	N/A	10.0"
94.1°-106.9°	1.2°-14.0°	95.3°-120.9°	7.5" - 8.7"	20.0" (adj.)	27.8"	7.3"-11.7"	8.8"
94.1°-106.9°	1.2°-14.0°	95.3°-120.9°	7.5" - 8.7"	19.1" (fixed)	27.8"	8.6"	9.3"
94.1°-106.9°	1.2°-14.0°	95.3°-120.9°	7.5" - 8.7"	N/A	27.8"	N/A	N/A

**Work Chair****DESCRIPTION**

**FLC14 (low back)**  
**FLC15 (mid back)**  
**FLC16 (high back)**

This chair has 3 backrest heights. It is constructed of a continuous one-piece Intercept fabric suspended over a continuous support structure.

The Auto-Harmonic tilt control automatically senses the users tilt tension requirements and adjusts itself to provide the proper recline resistance for each user without any user adjustments. The only adjustment necessary to accommodate each user is a height control lever.

Arm choices include no arms, fixed arms, leaf arms (high performance Intercept suspension fixed arms) or height adjustable arms that provide 4.4" of vertical adjustment.

The chair is available in 3 neutral frame colors: Studio White, Carbon, and Graphite, as well as 3 saturated frame colors: Canyon, Glacier and Nightfall. The Intercept fabric blankets are available in these same 6 colors in any combination of frame and blanket.

This chair contains no flame retardant chemicals.

This chair is tested and warranted for use by persons 350 pounds and under.

**CONSTRUCTION****Suspension Seat/Back**

The continuous seat/back support structure is constructed of a durable, breathable Intercept fabric blanket stretched over a structural frame. The Intercept fabric is constructed of a blend of soft, colored polyester yarn interwoven with high performance elastomeric ThermoPlastic Copolyester (TPC) filaments that provide continuous, distributed support for the user while retaining its original shape when the chair is unoccupied. This fabric is overmolded with a high performance TPC material around its perimeter to form a blanket that provides a soft, but durable attachment structure to the frame. This soft perimeter also provides a compliant bumper to prevent damage to surrounding furniture.

This fabric blanket is stretched and interlocked over an injection molded glass-filled polypropylene frame that provides structural support through the seat and spine regions while providing continuity in the side beams. The front of the seat and top of the back (mid and high back chairs) are constructed of a glass-filled nylon frame segment that provides extra rigidity to satisfy the unique loads experienced in these regions while maintaining the fabric tension at the blanket ends.

This injection molded frame assembly is attached to the Auto-harmonic tilt control mechanism through diecast aluminum front and rear support structures that provides the synchronization of the seat and back angles during recline. These aluminum structures are attached to the injection molded seat/back frame using shoulder bolts and bushings to provide smooth, quiet motion. The rear support structure also serves as the attachment location for the arm options to provide a strong, secure platform for the arms.

**Arms (Optional)**

The work chair is available with no arms, fixed arms, leaf arms, or height adjustable arms.

The fixed arms are constructed of a glass-filled nylon structure overmolded with a thermoplastic elastomer (TPE) to provide a strong durable structure that is soft to the touch.

The high-performance suspension fixed arms (leaf arms) are constructed of a glass-filled nylon structure with a stretched and interlocked Intercept fabric blanket. This suspended fabric blanket provides distributed support for the user's forearms/elbow.

The height adjustable arms are constructed of a diecast aluminum support structure with a glass-filled nylon arm stem that adjusts vertically 4.4 inches. The waterfall arm pad is constructed of an unfilled nylon structure overmolded with a flexible urethane foam that is 8 ¾" x 4 ½" in size. The unique waterfall design of the arm pad allows for comfortable sideways sitting in the chair.



## Tilt

The Auto-harmonic tilt mechanism is constructed of 4 aluminum diecast structures connected with stainless steel rivets and plastic bushings to form a smooth traveling 4-bar mechanism. This 4-bar mechanism is loaded with two fiberglass weighing leaf springs to provide weight sensing for persons over 120 lbs. This 4-bar mechanism activates an injection molded mechanism which adjusts the recline tension using two fiberglass performance leaf springs. Three injection molded ABS covers are snapped on to enclose this mechanism.

## Base

The chair base shall house a unitized single-stage pneumatic seat height adjustment mechanism contained in 2 steel tubes; an inner tube shall slide and rotate in a bushing within an outer tube. The outer tube shall be coated black and shall have a tapered end that shall be pressed into the base, and an upper end that shall be pressed into the tilt mechanism.

See "Adjustments" for tilt and seat-height ranges.

Pneumatic cylinders can be replaced on site. (See *Service Parts* in Kiosk.)

The 5-star base shall be injection molded glass-filled nylon (with studio white, carbon and graphite finishes) or cast aluminum (with canyon, glacier, nightfall, silver alloy and semi-polished finishes). The chair shall swivel 360°.

Chairs shall be furnished with interchangeable casters. See the "Casters and Glides" section for more information.

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## ADJUSTMENTS

### Seat Height

Seat height shall be controlled by a glass-filled nylon lever and paddle mounted on the right side of the seat frame.

The approximate seat height range shall be 14.8" to 20.9" for std height chairs and 16.1"-21.4" for extended height chairs.

### Height Adjustable Arms (Optional)

The height-adjustable arms shall have a trigger to enable the user to adjust arm height. The arm height adjustment range shall be approximately 4.4", and adjustments can be made to any height within the range.

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## PERFORMANCE DATA

The chair shall be rated to support a maximum of 350 pounds. The chair shall accommodate the 5th percentile female to the 95th percentile male (combination of low and standard height range).

The chair shall not contain flame retardant (FR) chemicals.

See the "Seating Measurements" chart for chair dimensions.

**CASTERS**

<b>Casters</b>	<b>Size Diameter</b>	<b>Type</b>	<b>Materials</b>	<b>Use</b>
BKS	2 ½"	silent roll technology	black yoke	carpet only
SC8	2 ½"	double-wheel quiet roll technology	black nylon wheels and yoke, soft polyurethane tread	hard floors or carpet
OC	2 ½"	double-wheel quiet roll technology	black nylon wheels and yoke, soft polyurethane tread	hard floors or carpet
O2N, O2B, O2R	2 ½"	quiet roll technology	nightfall, glacier, canyon	hard floors or carpet
<b>Glides</b>	<b>Size Diameter</b>	<b>Type</b>	<b>Materials</b>	<b>Use</b>
GF	2 ½"		black nylon	hard floors or carpet

## Stool Performance Information

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Cosm stools meet or exceed all American National Standards Institute/Business and Institutional Furniture Manufacturer's Association (ANSI/BIFMA) performance requirements per ANSI X5.1-2011, which includes the following tests:

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- Stability test, Section 12
- Arm strength test (vertical), Section 13
- Arm strength test (horizontal), Section 14
- Arm durability test (cyclic), Section 21
- Back durability test (cyclic), type I, Section 15
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- Caster chair base durability test, Section 17

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- Cal 117-2013 is intended to determine the flame retardancy of resilient filling materials and textiles in upholstered furniture.

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- BIFMA G1-2013
- EN 1335-1:2000
- AS/NZS 4438

#### Sustainability Certifications/Compliance

- level™ 3 certified– BIFMA e3 Sustainability Standard (work & side chairs)
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**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 within the indicated measuring zone.

**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 of the lumbar support region as measured from the base of the chair back to the top and bottom of the lumbar support areas.

**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/extended seat to the back. Center measured with the chair at an upright position.

**Weight**

Does not include packaging

**Back Tilt Range\***

Angle of the back from upright to fully reclined positions in relation to the floor.

**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.

**Armrest Length**

Distance from back edge of armrest to front edge of armrest.

**Armrests, Inside Measurement** Width

between the armrests.

**Overall Width**

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.

# Cosm® Chairs

## Stool Measurements

<b>Stools: Low Back</b>										
Chair Description		Overall Height	Overall Width	Overall Depth	Weight (pounds)	Seat Height	Seat Depth	Seat Width	Backrest Height	Backrest Width
<b>Leaf Arms</b>										
Standard	FLC745SFJ	40.8-50.5"	29.3"	26.7"	37.0 lbs	22.8" - 32.5"	15.9"	20.5"	19.2"	18.4"
Dipped in Color	FLC845SFJ									
<b>Height Adjustable Arms</b>										
Standard	FLC745SFH	40.8-50.5"	28.9"	26.7"	39.2 lbs	22.8" - 32.5"	15.9"	20.5"	19.2"	18.4"
Dipped in Color	N/A									
<b>Fixed Arms</b>										
Standard	FLC745SFP	40.8-50.5"	26.7"	26.7"	36.8 lbs	22.8" - 32.5"	15.9"	20.5"	19.2"	18.4"
Dipped in Color	FLC845SFP									
<b>No Arms</b>										
Standard	FLC745SFN	40.8-50.5"	26.7"	26.7"	34.2 lbs	22.8" - 32.5"	15.9"	20.5"	19.2"	18.4"
Dipped in Color	FLC845SFN									

Seat Pan – Backrest Angle	Seat Pan Angle	Tilt Range	Lumbar Support	Armrest Clearance /Inside Distance	Base Diameter Outside	Armrest Height	Armrest Length
94.8°-107.1°	1.6°-13.7°	96.4°-120.8°	7.5" - 8.7"	18.5" (leaf)	27.8"	N/A"	10.0"
94.8°-107.1°	1.6°-13.7°	96.4°-120.8°	7.5" - 8.7"	20.0" (adj.)	27.8"	7.3"-11.7"	8.8"
94.8°-107.1°	1.6°-13.7°	96.4°-120.8°	7.5" - 8.7"	19.1" (fixed)	27.8"	8.6"	9.3"
94.8°-107.1°	1.6°-13.7°	96.4°-120.8°	7.5" - 8.7"	N/A	27.8"	N/A	N/A

# Cosm® Chairs

<b>Stools: Mid Back</b>										
Chair Description		Overall Height	Overall Width	Overall Depth	Weight (pounds)	Seat Height	Seat Depth	Seat Width	Backrest Height	Backrest Width
<b>Leaf Arms</b>										
Standard	FLC755SFJ	45.4" - 55.1"	29.3"	26.7"	37.7 lbs	22.8" - 32.5"	15.9"	20.5"	24.1"	18.3"
Dipped in Color	FLC855SFJ									
<b>Height Adjustable Arms</b>										
Standard	FLC755SFH	45.4" - 55.1"	28.9"	26.7"	39.9 lbs	22.8" - 32.5"	15.9"	20.5"	24.1"	18.3"
Dipped in Color	N/A									
<b>Fixed Arms</b>										
Standard	FLC755SFP	45.4" - 55.1"	26.7"	26.7"	37.5 lbs	22.8" - 32.5"	15.9"	20.5"	24.1"	18.3"
Dipped in Color	FLC855SFP									
<b>No Arms</b>										
Standard	FLC755SFN	45.4" - 55.1"	26.7"	26.7"	34.9 lbs	22.8" - 32.5"	15.9"	20.5"	24.1"	18.3"
Dipped in Color	FLC855SFN									

Seat Pan – Backrest Angle	Seat Pan Angle	Tilt Range	Lumbar Support	Armrest Clearance / Inside Distance	Base Diameter Outside	Armrest Height	Armrest Length
94.7° - 107.2°	1.0° - 13.5°	95.7° - 120.7°	7.5" - 8.7"	18.5" (leaf)	27.8"	N/A	10.0"
94.7° - 107.2°	1.0° - 13.5°	95.7° - 120.7°	7.5" - 8.7"	20.0" (adj.)	27.8"	7.3" - 11.7"	8.8"
94.7° - 107.2°	1.0° - 13.5°	95.7° - 120.7°	7.5" - 8.7"	19.1" (fixed)	27.8"	8.6"	9.3"
94.7° - 107.2°	1.0° - 13.5°	95.7° - 120.7°	7.5" - 8.7"	N/A	27.8"	N/A	N/A

## Stool

### DESCRIPTION

#### FLC74 (low back) FLC75 (mid back)

This stool has a 5-star base and 1 height cylinder with a seat height range of 22.8" to 32.5"

This stool has 2 backrest heights. It is constructed of a continuous one-piece Intercept fabric suspended over a continuous support structure.

The Auto-Harmonic tilt control automatically senses the users tilt tension requirements and adjusts itself to provide the proper recline resistance for each user without any user adjustments. The only adjustment necessary to accommodate each user is a height control lever.

Arm choices include no arms, fixed arms, leaf arms, or height adjustable arms that provide 4.4" of vertical adjustment.

The stool is available in 3 neutral frame colors: Studio White, Carbon, and Graphite, as well as 3 saturated frame colors: Canyon, Glacier and Nightfall. The Intercept fabric blankets are available in these same 6 colors in any combination of frame and blanket.

This stool contains no flame retardant chemicals.

This stool is tested and warranted for use by persons 350 pounds and under.

### CONSTRUCTION

#### Suspension Seat/Back

The continuous seat/back support structure is constructed of a durable, breathable Intercept fabric blanket stretched over a structural frame. The Intercept fabric is constructed of a blend of soft, colored polyester yarn interwoven with high performance elastomeric ThermoPlastic Copolyester (TPC) filaments that provide continuous, distributed support for the user while retaining its original shape when the chair is unoccupied. This fabric is overmolded with a high performance TPC material around its perimeter to form a blanket that provides a soft, but durable attachment structure to the frame. This soft perimeter also provides a compliant bumper to prevent damage to surrounding furniture.

This fabric blanket is stretched and interlocked over an injection molded glass-filled polypropylene frame that provides structural support through the seat and spine regions while providing continuity in the side beams. The front of the seat and top of the back (mid and high back chairs) are constructed of a glass-filled nylon frame segment that provides extra rigidity to satisfy the unique loads experienced in these regions while maintaining the fabric tension at the blanket ends.

This injection molded frame assembly is attached to the Auto-harmonic tilt control mechanism through diecast aluminum front and rear support structures that provides the synchronization of the seat and back angles during recline. These aluminum structures are attached to the injection molded seat/back frame using shoulder bolts and bushings to provide smooth, quiet motion. The rear support structure also serves as the attachment location for the arm options to provide a strong, secure platform for the arms.

#### Arms (Optional)

The work stool is available with no arms, fixed arms, high performance Intercept suspension fixed arms, or height adjustable arms.

The fixed arms are constructed of a glass-filled nylon structure overmolded with a thermoplastic elastomer (TPE) to provide a strong durable structure that is soft to the touch.

The high performance suspension fixed arms are constructed of a glass-filled nylon structure with a stretched and interlocked Intercept fabric blanket. This suspended fabric blanket provides distributed support for the user's forearms/elbow.

The height adjustable arms are constructed of a diecast aluminum support structure with a glass-filled nylon arm stem that adjusts vertically 4.4 inches. The waterfall arm pad is constructed of an unfilled nylon structure overmolded with a flexible urethane foam that is 8 ¾" x 4 ½" in size. The unique waterfall design of the arm pad allows for comfortable sideways sitting in the chair.

## Tilt

The Auto-harmonic tilt mechanism is constructed of 4 aluminum diecast structures connected with stainless steel rivets and plastic bushings to form a smooth traveling 4-bar mechanism. This 4-bar mechanism is loaded with two fiberglass weighing leaf springs to provide weight sensing for persons over 120 lbs. This 4-bar mechanism activates an injection molded mechanism which adjusts the recline tension using two fiberglass performance leaf springs. Three injection molded ABS covers are snapped on to enclose this mechanism.

## Base

The stool base shall house a unitized single-stage pneumatic seat height adjustment mechanism contained in 2 steel tubes; an inner tube shall slide and rotate in a bushing within an outer tube. The outer tube shall be coated black and shall have a tapered end that shall be pressed into the base, and an upper end that shall be pressed into the tilt mechanism.

See "Adjustments" for tilt and seat-height ranges.

Pneumatic cylinders can be replaced on site. (See *Service Parts* in Kiosk.)

The 5-star base shall be injection molded glass-filled nylon (with studio white, carbon and graphite finishes) or cast aluminum (with canyon, glacier, nightfall, silver alloy and semi-polished finishes). The chair shall swivel 360°.

Stools shall be furnished with interchangeable casters. See the "Casters and Glides" section for more information.

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## ADJUSTMENTS

### Seat Height

Seat height shall be controlled by a glass-filled nylon lever and paddle mounted on the right side of the seat frame.

The approximate seat height range shall be 22.8" to 32.5".

### Height Adjustable Arms (Optional)

The height-adjustable arms shall have a trigger to enable the user to adjust arm height. The arm height adjustment range shall be approximately 4.4", and adjustments can be made to any height within the range.

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## PERFORMANCE DATA

Stools shall be rated to support a maximum of 350 pounds.

The stool shall not contain flame retardant (FR) chemicals.

See the "Seating Measurements" chart for chair dimensions.



# Cosm® Chairs

## CASTERS

<b>Casters</b>	<b>Size Diameter</b>	<b>Type</b>	<b>Materials</b>	<b>Use</b>
BKS	2 ½"	silent roll technology	black yoke	carpet only
SC8	2 ½"	double-wheel quiet roll technology	black nylon wheels and yoke, soft polyurethane tread	hard floors or carpet
OC	2 ½"	double-wheel quiet roll technology	black nylon wheels and yoke, soft polyurethane tread	hard floors or carpet
O2N, O2B, O2R	2 ½"	quiet roll technology	nightfall, glacier, canyon	Hard floors or carpet
<b>Glides</b>	<b>Size Diameter</b>	<b>Type</b>	<b>Materials</b>	<b>Use</b>
GF	2 ½"		black nylon	hard floors or carpet