



# Sayl® 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 Sayl® 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.

SAYL 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
- Out stop test for chairs with manually adjustable seat depth, Section 21

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 (TB) 133: with approved FR models and textiles listed in the SAYL price book.
- California TB 133 is a composite test that evaluates the combustion performance of a complete chair.
- California Technical Bulletin 117-2013 – the foam and all HMI textiles used on SAYL 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 G1-2002

#### Sustainability Certifications/Compliance

- level™ 3 certified- BIFMA e3 Sustainability Standard (work & side chairs)
- Cradle-to-Cradle™ Silver certified
- GREENGUARD®GOLD Certified
- Complies with ANSI/BIFMA M7.1-2001 and ANSI/BIFMA X7.1.
- Please contact the SAYL 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

**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.

**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.

**Seating Measurements – Work Chairs (Suspension & Mid-back Upholstered)**

<b>Work Chairs: Low-Height Range, Tilt Limiter &amp; Seat Angle, Fixed &amp; Adjustable Seat</b>										
Chair Description		Overall Height	Overall Width	Overall Depth	Weight (pounds)	Seat Height	Seat Depth	Seat Width	Backrest Height	Backrest Width
<b>Fully Adjustable Arms</b>										
Suspension	AS2VA13AF AS2SA13AF AS2VA13AA AS2SA13AA	37 ¾"	26.75"	26"	Polymer: 37 Polished: 40	15"-19"	Fixed 16"	18.25"	20.9"	16.9"
	Adjust 16-18"									
Mid-back Upholstered	AS2VC13AF AS2SC13AF AS2VC13AA AS2SC13AA				Polymer: 39 Polished: 42		Fixed 16"			17.1"
	Adjust 16-18"									
<b>Height Adjustable Arms</b>										
Suspension	AS2VA13HF AS2SA13HF AS2VA13HA AS2SA13HA	37 ¾"	24.75"	26"	Polymer: 36 Polished: 39	15"-19"	Fixed 16"	18.25"	20.9"	16.9"
	Adjust 16-18"									
Mid-back Upholstered	AS2VC13HF AS2SC13HF AS2VC13HA AS2SC13HA				Polymer: 38 Polished: 41		Fixed 16"			17.1"
	Adjust 16-18"									
<b>Fixed Arms</b>										
Suspension	AS2VA13PF AS2SA13PF AS2VA13PA AS2SA13PA	37 ¾"	24.75"	26"	Polymer: 36 Polished: 39	15"-19"	Fixed 16"	18.25"	20.9"	16.9"
	Adjust 16-18"									
Mid-back Upholstered	AS2VC13PF AS2SC13PF AS2VC13PA AS2SC13PA				Polymer: 38 Polished: 41		Fixed 16"			17.1"
	Adjust 16-18"									
<b>No Arms</b>										
Suspension	AS2VA13NF AS2SA13NF AS2VA13NA AS2SA13NA	37 ¾"	23.5"	26"	Polymer: 34 Polished: 37	15"-19"	Fixed 16"	18.25"	20.9"	16.9"
	Adjust 16-18"									
Mid-back Upholstered	AS2VC13NF AS2SC13NF AS2VC13NA AS2SC13NA				Polymer: 36 Polished: 39		Fixed 16"			17.1"
	Adjust 16-18"									

Seat Pan – Backrest Angle	Seat Pan Angle	Tilt Range	Lumbar Support	Armrest Clearance /Inside Distance	Base Diameter Outside	Armrest Height	Armrest Length
94/96/111°	-3/3/13°	91°/ 101°/124°	Fixed: 9.0" Adj: 4" range	16.5-19.7"	26.0"	6.7"-10.8"	6.4"-7.7"
94/96/111°	-3/3/13°	91°/ 101°/124°	Fixed: 9.0" Adj: 4" range	19.3"	26.0"	6.7"-10.8"	6.9"-7.5"
94/96/111°	-3/3/13°	91°/ 101°/124°	Fixed: 9.0" Adj: 4" range	19.1"	26.0"	9.4"	7.8"
94/96/111°	-3/3/13°	91°/ 101°/124°	Fixed: 9.0" Adj: 4" range	N/A	26.0"	N/A	N/A

# SAYL® Chairs

<b>Work Chairs: Low-Height Range, Tilt Limiter, Fixed &amp; Adjustable Seat</b>										
Chair Description		Overall Height	Overall Width	Overall Depth	Weight (pounds)	Seat Height	Seat Depth	Seat Width	Backrest Height	Backrest Width
<b>Fully Adjustable Arms</b>										
Suspension	AS2VA12AF AS2SA12AF AS2VA12AA AS2SA12AA	37 ¾"	26.75"	26"	Polymer: 37 Polished: 40	15"-19"	Fixed 16"	18.25"	20.9"	16.9"
	Adjust 16-18"									
Mid-back Upholstered	AS2VC12AF AS2SC12AF AS2VC12AA AS2SC12AA				Polymer: 39 Polished: 42		Fixed 16" Adjust 16-18"			17.1"
	<b>Height Adjustable Arms</b>									
Suspension	AS2VA12HF AS2SA12HF AS2VA12HA AS2SA12HA	37 ¾"	24.75"	26"	Polymer: 36 Polished: 39	15"-19"	Fixed 16"	18.25"	20.9"	16.9"
	Adjust 16-18"									
Mid-back Upholstered	AS2VC12HF AS2SC12HF AS2VC12HA AS2SC12HA				Polymer: 38 Polished: 41		Fixed 16" Adjust 16-18"			17.1"
	<b>Fixed Arms</b>									
Suspension	AS2VA12PF AS2SA12PF AS2VA12PA AS2SA12PA	37 ¾"	24.75"	26"	Polymer: 36 Polished: 39	15"-19"	Fixed 16"	18.25"	20.9"	16.9"
	Adjust 16-18"									
Mid-back Upholstered	AS2VC12PF AS2SC12PF AS2VC12PA AS2SC12PA				Polymer: 38 Polished: 41		Fixed 16" Adjust 16-18"			17.1"
	<b>No Arms</b>									
Suspension	AS2VA12NF AS2SA12NF AS2VA12NA AS2SA12NA	37 ¾"	23.5"	26"	Polymer: 34 Polished: 37	15"-19"	Fixed 16"	18.25"	20.9"	16.9"
	Adjust 16-18"									
Mid-back Upholstered	AS2VC12NF AS2SC12NF AS2VC12NA AS2SC12NA				Polymer: 36 Polished: 39		Fixed 16" Adjust 16-18"			17.1"

Seat Pan – Backrest Angle	Seat Pan Angle	Tilt Range	Lumbar Support	Armrest Clearance /Inside Distance	Base Diameter Outside	Armrest Height	Armrest Length
96/111°	3/13°	101°/124°	Fixed: 9.0" Adj: 4" range	16.5-19.7"	26.0"	6.7"-10.8"	6.4"-7.7"
96/111°	3/13°	101°/124°	Fixed: 9.0" Adj: 4" range	19.3"	26.0"	6.7"-10.8"	6.9"-7.5"
96/111°	3/13°	101°/124°	Fixed: 9.0" Adj: 4" range	19.1"	26.0"	9.4"	7.8"
96/111°	3/13°	101°/124°	Fixed: 9.0" Adj: 4" range	N/A	26.0"	N/A	N/A

# Sayl® Chairs

<b>Work Chairs: Standard-Height Range, Tilt Limiter &amp; Seat Angle, Fixed &amp; Adjustable Seat</b>												
Chair Description		Overall Height	Overall Width	Overall Depth	Weight (pounds)	Seat Height	Seat Depth	Seat Width	Backrest Height	Backrest Width		
<b>Fully Adjustable Arms</b>												
Suspension	AS2VA23AF AS2SA23AF AS2VA23AA AS2SA23AA	39 ¼"	26.75"	26"	Polymer: 37 Polished: 40	16"-20.5"	Fixed 16"	18.25"	20.9"	16.9"		
	Adjust 16-18"											
Mid-back Upholstered	AS2VC23AF AS2SC23AF AS2VC23AA AS2SC23AA				Polymer: 39 Polished: 42		Fixed 16"				Adjust 16-18"	17.1"
<b>Height Adjustable Arms</b>												
Suspension	AS2VA23HF AS2SA23HF AS2VA23HA AS2SA23HA	39 ¼"	24.75"	26"	Polymer: 36 Polished: 39	16"-20.5"	Fixed 16"	18.25"	20.9"	16.9"		
	Adjust 16-18"											
Mid-back Upholstered	AS2VC23HF AS2SC23HF AS2VC23HA AS2SC23HA				Polymer: 38 Polished: 41		Fixed 16"				Adjust 16-18"	17.1"
<b>Fixed Arms</b>												
Suspension	AS2VA23PF AS2SA23PF AS2VA23PA AS2SA23PA	39 ¼"	24.75"	26"	Polymer: 36 Polished: 39	16"-20.5"	Fixed 16"	18.25"	20.9"	16.9"		
	Adjust 16-18"											
Mid-back Upholstered	AS2VC23PF AS2SC23PF AS2VC23PA AS2SC23PA				Polymer: 38 Polished: 41		Fixed 16"				Adjust 16-18"	17.1"
<b>No Arms</b>												
Suspension	AS2VA23NF AS2SA23NF AS2VA23NA AS2SA23NA	39 ¼"	23.5"	26"	Polymer: 34 Polished: 37	16"-20.5"	Fixed 16"	18.25"	20.9"	16.9"		
	Adjust 16-18"											
Mid-back Upholstered	AS2VC23NF AS2SC23NF AS2VC23NA AS2SC23NA				Polymer: 36 Polished: 39		Fixed 16"				Adjust 16-18"	17.1"

Seat Pan – Backrest Angle	Seat Pan Angle	Tilt Range	Lumbar Support	Armrest Clearance /Inside Distance	Base Diameter Outside	Armrest Height	Armrest Length
94/96/111°	-3/3/13°	91°/ 101°/124°	Fixed: 9.0" Adj: 4" range	16.5-19.7"	26.0"	6.7"-10.8"	6.4"-7.7"
94/96/111°	-3/3/13°	91°/ 101°/124°	Fixed: 9.0" Adj: 4" range	19.3"	26.0"	6.7"-10.8"	6.9"-7.5"
94/96/111°	-3/3/13°	91°/ 101°/124°	Fixed: 9.0" Adj: 4" range	19.1"	26.0"	9.4"	7.8"
94/96/111°	-3/3/13°	91°/ 101°/124°	Fixed: 9.0" Adj: 4" range	N/A	26.0"	N/A	N/A

# SAYL® Chairs

<b>Work Chairs: Standard-Height Range, Tilt Limiter, Fixed &amp; Adjustable Seat</b>										
Chair Description		Overall Height	Overall Width	Overall Depth	Weight (pounds)	Seat Height	Seat Depth	Seat Width	Backrest Height	Backrest Width
<b>Fully Adjustable Arms</b>										
Suspension	AS2VA22AF AS2SA22AF AS2VA22AA AS2SA22AA	39 ¼"	26.75"	26"	Polymer: 37 Polished: 40	16"-20.5"	Fixed 16"	18.25"	20.9"	16.9"
	Mid-back Upholstered				AS2VC22AF AS2SC22AF AS2VC22AA AS2SC22AA		Polymer: 39 Polished: 42			
<b>Height Adjustable Arms</b>										
Suspension	AS2VA22HF AS2SA22HF AS2VA22HA AS2SA22HA	39 ¼"	24.75"	26"	Polymer: 36 Polished: 39	16"-20.5"	Fixed 16"	18.25"	20.9"	16.9"
	Mid-back Upholstered				AS2VC22HF AS2SC22HF AS2VC22HA AS2SC22HA		Polymer: 38 Polished: 41			
<b>Fixed Arms</b>										
Suspension	AS2VA22PF AS2SA22PF AS2VA22PA AS2SA22PA	39 ¼"	24.75"	26"	Polymer: 36 Polished: 39	16"-20.5"	Fixed 16"	18.25"	20.9"	16.9"
	Mid-back Upholstered				AS2VC22PF AS2SC22PF AS2VC22PA AS2SC22PA		Polymer: 38 Polished: 41			
<b>No Arms</b>										
Suspension	AS2VA22NF AS2SA22NF AS2VA22NA AS2SA22NA	39 ¼"	23.5"	26"	Polymer: 34 Polished: 37	16"-20.5"	Fixed 16"	18.25"	20.9"	16.9"
	Mid-back Upholstered				AS2VC22NF AS2SC22NF AS2VC22NA AS2SC22NA		Polymer: 36 Polished: 39			

Seat Pan – Backrest Angle	Seat Pan Angle	Tilt Range	Lumbar Support	Armrest Clearance /Inside Distance	Base Diameter Outside	Armrest Height	Armrest Length
96/111°	3/13°	101°/124°	Fixed: 9.0" Adj: 4" range	16.5-19.7"	26.0"	6.7"-10.8"	6.4"-7.7"
96/111°	3/13°	101°/124°	Fixed: 9.0" Adj: 4" range	19.3"	26.0"	6.7"-10.8"	6.9"-7.5"
96/111°	3/13°	101°/124°	Fixed: 9.0" Adj: 4" range	19.1"	26.0"	9.4"	7.8"
96/111°	3/13°	101°/124°	Fixed: 9.0" Adj: 4" range	N/A	26.0"	N/A	N/A

# Sayl® Chairs

<b>Work Chairs: Extended-Height Range, Tilt Limiter and Seat Angle, Fixed &amp; Adjustable Seat</b>										
Chair Description		Overall Height	Overall Width	Overall Depth	Weight (pounds)	Seat Height	Seat Depth	Seat Width	Backrest Height	Backrest Width
<b>Fully Adjustable Arms</b>										
Suspension	AS2VA33AF AS2SA33AF AS2VA33AA AS2SA33AA	40 ¾"	26.75"	26"	Polymer: 37 Polished: 40	16.522"	Fixed 16"	18.25"	20.9"	16.9"
	Mid-back Upholstered				AS2VC33AF AS2SC33AF AS2VC33AA AS2SC33AA		Polymer: 39 Polished: 42			
<b>Height Adjustable Arms</b>										
Suspension	AS2VA33HF AS2SA33HF AS2VA33HA AS2SA33HA	40 ¾"	24.75"	26"	Polymer: 36 Polished: 39	16.5-22"	Fixed 16"	18.25"	20.9"	16.9"
	Mid-back Upholstered				AS2VC33HF AS2SC33HF AS2VC33HA AS2SC33HA		Polymer: 38 Polished: 41			
<b>Fixed Arms</b>										
Suspension	AS2VA33PF AS2SA33PF AS2VA33PA AS2SA33PA	40 ¾"	24.75"	26"	Polymer: 36 Polished: 39	16.522"	Fixed 16"	18.25"	20.9"	16.9"
	Mid-back Upholstered				AS2VC33PF AS2SC33PF AS2VC33PA AS2SC33PA		Polymer: 38 Polished: 41			
<b>No Arms</b>										
Suspension	AS2VA33NF AS2SA33NF AS2VA33NA AS2SA33NA	40 ¾"	23.5"	26"	Polymer: 34 Polished: 37	16.5-22"	Fixed 16"	18.25"	20.9"	16.9"
	Mid-back Upholstered				AS2VC33NF AS2SC33NF AS2VC33NA AS2SC33NA		Polymer: 36 Polished: 39			

Seat Pan – Backrest Angle	Seat Pan Angle	Tilt Range	Lumbar Support	Armrest Clearance /Inside Distance	Base Diameter Outside	Armrest Height	Armrest Length
94/96/111°	-3/3/13°	91°/ 101°/124°	Fixed: 9.0" Adj: 4" range	16.5-19.7"	26.0"	6.7"-10.8"	6.4"-7.7"
94/96/111°	-3/3/13°	91°/ 101°/124°	Fixed: 9.0" Adj: 4" range	19.3"	26.0"	6.7"-10.8"	6.9"-7.5"
94/96/111°	-3/3/13°	91°/ 101°/124°	Fixed: 9.0" Adj: 4" range	19.1"	26.0"	9.4"	7.8"
94/96/111°	-3/3/13°	91°/ 101°/124°	Fixed: 9.0" Adj: 4" range	N/A	26.0"	N/A	N/A



# SAYL® Chairs

<b>Work Chairs: Extended-Height Range, Tilt Limiter, Fixed &amp; Adjustable Seat</b>										
Chair Description		Overall Height	Overall Width	Overall Depth	Weight (pounds)	Seat Height	Seat Depth	Seat Width	Backrest Height	Backrest Width
<b>Fully Adjustable Arms</b>										
Suspension	AS2VA32AF AS2SA32AF AS2VA32AA AS2SA32AA	40 ¾"	26.75"	26"	Polymer: 37 Polished: 40	16.522"	Fixed 16"	18.25"	20.9"	16.9"
	Mid-back Upholstered				AS2VC32AF AS2SC32AF AS2VC32AA AS2SC32AA		Polymer: 39 Polished: 42			
<b>Height Adjustable Arms</b>										
Suspension	AS2VA32HF AS2SA32HF AS2VA32HA AS2SA32HA	40 ¾"	24.75"	26"	Polymer: 36 Polished: 39	16.5-22"	Fixed 16"	18.25"	20.9"	16.9"
	Mid-back Upholstered				AS2VC32HF AS2SC32HF AS2VC32HA AS2SC32HA		Polymer: 38 Polished: 41			
<b>Fixed Arms</b>										
Suspension	AS2VA32PF AS2SA32PF AS2VA32PA AS2SA32PA	40 ¾"	24.75"	26"	Polymer: 36 Polished: 39	16.522"	Fixed 16"	18.25"	20.9"	16.9"
	Mid-back Upholstered				AS2VC32PF AS2SC32PF AS2VC32PA AS2SC32PA		Polymer: 38 Polished: 41			
<b>No Arms</b>										
Suspension	AS2VA32NF AS2SA32NF AS2VA32NA AS2SA32NA	40 ¾"	23.5"	26"	Polymer: 34 Polished: 37	16.5-22"	Fixed 16"	18.25"	20.9"	16.9"
	Mid-back Upholstered				AS2VC32NF AS2SC32NF AS2VC32NA AS2SC32NA		Polymer: 36 Polished: 39			

Seat Pan – Backrest Angle	Seat Pan Angle	Tilt Range	Lumbar Support	Armrest Clearance /Inside Distance	Base Diameter Outside	Armrest Height	Armrest Length
96/111°	3/13°	101°/124°	Fixed: 9.0" Adj: 4" range	16.5-19.7"	26.0"	6.7"-10.8"	6.4"-7.7"
96/111°	3/13°	101°/124°	Fixed: 9.0" Adj: 4" range	19.3"	26.0"	6.7"-10.8"	6.9"-7.5"
96/111°	3/13°	101°/124°	Fixed: 9.0" Adj: 4" range	19.1"	26.0"	9.4"	7.8"
96/111°	3/13°	101°/124°	Fixed: 9.0" Adj: 4" range	N/A	26.0"	N/A	N/A

**Seating Measurements – Work Chairs (High-back Upholstered)**

<b>Work Chairs: Low-Height Range, Tilt Limiter &amp; Seat Angle, Fixed &amp; Adjustable Seat</b>										
Chair Description		Overall Height	Overall Width	Overall Depth	Weight (pounds)	Seat Height	Seat Depth	Seat Width	Backrest Height	Backrest Width
<b>Fully Adjustable Arms</b>										
High-back Upholstered	AS2VD13AF AS2SD13AF AS2VD13AA AS2SD13AA	40 ¼"	26.75"	26"	Polymer: 39.5 Polished: 42.5	15"-19"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									
<b>Height Adjustable Arms</b>										
High-back Upholstered	AS2VD13HF AS2SD13HF AS2VD13HA AS2SD13HA	40 ¼"	24.75"	26"	Polymer: 38.5 Polished: 41.5	15"-19"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									
<b>Fixed Arms</b>										
High-back Upholstered	AS2VD13PF AS2SD13PF AS2VD13PA AS2SD13PA	40 ¼"	24.75"	26"	Polymer: 38.5 Polished: 41.5	15"-19"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									
<b>No Arms</b>										
High-back Upholstered	AS2VD13NF AS2SD13NF AS2VD13NA AS2SD13NA	40 ¼"	23.5"	26"	Polymer: 36.5 Polished: 39.5	15"-19"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									

Seat Pan – Backrest Angle	Seat Pan Angle	Tilt Range	Lumbar Support	Armrest Clearance /Inside Distance	Base Diameter Outside	Armrest Height	Armrest Length
94/96/111°	-3/3/13°	91°/ 101°/124°	Fixed: 9.0" Adj: 4" range	16.5-19.7"	26.0"	6.7"-10.8"	6.4"-7.7"
94/96/111°	-3/3/13°	91°/ 101°/124°	Fixed: 9.0" Adj: 4" range	19.3"	26.0"	6.7"-10.8"	6.9"-7.5"
94/96/111°	-3/3/13°	91°/ 101°/124°	Fixed: 9.0" Adj: 4" range	19.1"	26.0"	9.4"	7.8"
94/96/111°	-3/3/13°	91°/ 101°/124°	Fixed: 9.0" Adj: 4" range	N/A	26.0"	N/A	N/A

# SAYL® Chairs

<b>Work Chairs: Low-Height Range, Tilt Limiter, Fixed &amp; Adjustable Seat</b>										
Chair Description		Overall Height	Overall Width	Overall Depth	Weight (pounds)	Seat Height	Seat Depth	Seat Width	Backrest Height	Backrest Width
<b>Fully Adjustable Arms</b>										
High-back Upholstered	AS2VD12AF AS2SD12AF AS2VD12AA AS2SD12AA	40 ¼"	26.75"	26"	Polymer: 39.5 Polished: 42.5	15"-19"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									
<b>Height Adjustable Arms</b>										
High-back Upholstered	AS2VD12HF AS2SD12HF AS2VD12HA AS2SD12HA	40 ¼"	24.75"	26"	Polymer: 38.5 Polished: 41.5	15"-19"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									
<b>Fixed Arms</b>										
High-back Upholstered	AS2VD12PF AS2SD12PF AS2VD12PA AS2SD12PA	40 ¼"	24.75"	26"	Polymer: 38.5 Polished: 41.5	15"-19"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									
<b>No Arms</b>										
High-back Upholstered	AS2VD12NF AS2SD12NF AS2VD12NA AS2SD12NA	40 ¼"	23.5"	26"	Polymer: 36.5 Polished: 39.5	15"-19"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									

Seat Pan – Backrest Angle	Seat Pan Angle	Tilt Range	Lumbar Support	Armrest Clearance /Inside Distance	Base Diameter Outside	Armrest Height	Armrest Length
96/111°	3/13°	101°/124°	Fixed: 9.0" Adj: 4" range	16.5-19.7"	26.0"	6.7"-10.8"	6.4"-7.7"
96/111°	3/13°	101°/124°	Fixed: 9.0" Adj: 4" range	19.3"	26.0"	6.7"-10.8"	6.9"-7.5"
96/111°	3/13°	101°/124°	Fixed: 9.0" Adj: 4" range	19.1"	26.0"	9.4"	7.8"
96/111°	3/13°	101°/124°	Fixed: 9.0" Adj: 4" range	N/A	26.0"	N/A	N/A

# Sayl® Chairs

<b>Work Chairs: Standard-Height Range, Tilt Limiter &amp; Seat Angle, Fixed &amp; Adjustable Seat</b>										
Chair Description		Overall Height	Overall Width	Overall Depth	Weight (pounds)	Seat Height	Seat Depth	Seat Width	Backrest Height	Backrest Width
<b>Fully Adjustable Arms</b>										
High-back Upholstered	AS2VD23AF AS2SD23AF AS2VD23AA AS2SD23AA	41 ¾"	26.75"	26"	Polymer: 39.5 Polished: 42.5	16"-20.5"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									
<b>Height Adjustable Arms</b>										
High-back Upholstered	AS2VD23HF AS2SD23HF AS2VD23HA AS2SD23HA	41 ¾"	24.75"	26"	Polymer: 38.5 Polished: 41.5	16"-20.5"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									
<b>Fixed Arms</b>										
High-back Upholstered	AS2VD23PF AS2SD23PF AS2VD23PA AS2SD23PA	41 ¾"	24.75"	26"	Polymer: 38.5 Polished: 41.5	16"-20.5"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									
<b>No Arms</b>										
High-back Upholstered	AS2VD23NF AS2SD23NF AS2VD23NA AS2SD23NA	41 ¾"	23.5"	26"	Polymer: 36.5 Polished: 39.5	16"-20.5"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									

Seat Pan – Backrest Angle	Seat Pan Angle	Tilt Range	Lumbar Support	Armrest Clearance /Inside Distance	Base Diameter Outside	Armrest Height	Armrest Length
94/96/111°	-3/3/13°	91°/ 101°/124°	Fixed: 9.0" Adj: 4" range	16.5-19.7"	26.0"	6.7"-10.8"	6.4"-7.7"
94/96/111°	-3/3/13°	91°/ 101°/124°	Fixed: 9.0" Adj: 4" range	19.3"	26.0"	6.7"-10.8"	6.9"-7.5"
94/96/111°	-3/3/13°	91°/ 101°/124°	Fixed: 9.0" Adj: 4" range	19.1"	26.0"	9.4"	7.8"
94/96/111°	-3/3/13°	91°/ 101°/124°	Fixed: 9.0" Adj: 4" range	N/A	26.0"	N/A	N/A

# SAYL® Chairs

<b>Work Chairs: Standard-Height Range, Tilt Limiter, Fixed &amp; Adjustable Seat</b>										
Chair Description		Overall Height	Overall Width	Overall Depth	Weight (pounds)	Seat Height	Seat Depth	Seat Width	Backrest Height	Backrest Width
<b>Fully Adjustable Arms</b>										
High-back Upholstered	AS2VD22AF AS2SD22AF AS2VD22AA AS2SD22AA	41 ¾"	26.75"	26"	Polymer: 39.5 Polished: 42.5	16"- 20.5"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									
<b>Height Adjustable Arms</b>										
High-back Upholstered	AS2VD22HF AS2SD22HF AS2VD22HA AS2SD22HA	41 ¾"	24.75"	26"	Polymer: 38.5 Polished: 41.5	16"- 20.5"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									
<b>Fixed Arms</b>										
High-back Upholstered	AS2VD22PF AS2SD22PF AS2VD22PA AS2SD22PA	41 ¾"	24.75"	26"	Polymer: 38.5 Polished: 41.5	16"- 20.5"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									
<b>No Arms</b>										
High-back Upholstered	AS2VD22NF AS2SD22NF AS2VD22NA AS2SD22NA	41 ¾"	23.5"	26"	Polymer: 36.5 Polished: 39.5	16"- 20.5"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									

Seat Pan – Backrest Angle	Seat Pan Angle	Tilt Range	Lumbar Support	Armrest Clearance /Inside Distance	Base Diameter Outside	Armrest Height	Armrest Length
96/111°	3/13°	101°/124°	Fixed: 9.0" Adj: 4" range	16.5-19.7"	26.0"	6.7"-10.8"	6.4"-7.7"
96/111°	3/13°	101°/124°	Fixed: 9.0" Adj: 4" range	19.3"	26.0"	6.7"-10.8"	6.9"-7.5"
96/111°	3/13°	101°/124°	Fixed: 9.0" Adj: 4" range	19.1"	26.0"	9.4"	7.8"
96/111°	3/13°	101°/124°	Fixed: 9.0" Adj: 4" range	N/A	26.0"	N/A	N/A

# Sayl® Chairs

<b>Work Chairs: Extended-Height Range, Tilt Limiter &amp; Seat Angle, Fixed &amp; Adjustable Seat</b>										
Chair Description		Overall Height	Overall Width	Overall Depth	Weight (pounds)	Seat Height	Seat Depth	Seat Width	Backrest Height	Backrest Width
<b>Fully Adjustable Arms</b>										
High-back Upholstered	AS2VD33AF AS2SD33AF AS2VD33AA AS2SD33AA	43 ¼"	26.75"	26"	Polymer: 39.5 Polished: 42.5	16"-22"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									
<b>Height Adjustable Arms</b>										
High-back Upholstered	AS2VD33HF AS2SD33HF AS2VD33HA AS2SD33HA	43 ¼"	24.75"	26"	Polymer: 38.5 Polished: 41.5	16"-22"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									
<b>Fixed Arms</b>										
High-back Upholstered	AS2VD33PF AS2SD33PF AS2VD33PA AS2SD33PA	43 ¼"	24.75"	26"	Polymer: 38.5 Polished: 41.5	16"-22"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									
<b>No Arms</b>										
High-back Upholstered	AS2VD33NF AS2SD33NF AS2VD33NA AS2SD33NA	43 ¼"	23.5"	26"	Polymer: 36.5 Polished: 39.5	16"-22"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									

Seat Pan – Backrest Angle	Seat Pan Angle	Tilt Range	Lumbar Support	Armrest Clearance /Inside Distance	Base Diameter Outside	Armrest Height	Armrest Length
94/96/111°	-3/3/13°	91°/ 101°/124°	Fixed: 9.0" Adj: 4" range	16.5-19.7"	26.0"	6.7"-10.8"	6.4"-7.7"
94/96/111°	-3/3/13°	91°/ 101°/124°	Fixed: 9.0" Adj: 4" range	19.3"	26.0"	6.7"-10.8"	6.9"-7.5"
94/96/111°	-3/3/13°	91°/ 101°/124°	Fixed: 9.0" Adj: 4" range	19.1"	26.0"	9.4"	7.8"
94/96/111°	-3/3/13°	91°/ 101°/124°	Fixed: 9.0" Adj: 4" range	N/A	26.0"	N/A	N/A

# SAYL® Chairs

<b>Work Chairs: Extended-Height Range, Tilt Limiter, Fixed &amp; Adjustable Seat</b>										
Chair Description		Overall Height	Overall Width	Overall Depth	Weight (pounds)	Seat Height	Seat Depth	Seat Width	Backrest Height	Backrest Width
<b>Fully Adjustable Arms</b>										
High-back Upholstered	AS2VD32AF AS2SD32AF AS2VD32AA AS2SD32AA	43 ¼"	26.75"	26"	Polymer: 39.5 Polished: 42.5	16"-22"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									
<b>Height Adjustable Arms</b>										
High-back Upholstered	AS2VD32HF AS2SD32HF AS2VD32HA AS2SD32HA	43 ¼"	24.75"	26"	Polymer: 38.5 Polished: 41.5	16"-22"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									
<b>Fixed Arms</b>										
High-back Upholstered	AS2VD32PF AS2SD32PF AS2VD32PA AS2SD32PA	43 ¼"	24.75"	26"	Polymer: 38.5 Polished: 41.5	16"-22"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									
<b>No Arms</b>										
High-back Upholstered	AS2VD32NF AS2SD32NF AS2VD32NA AS2SD32NA	43 ¼"	23.5"	26"	Polymer: 36.5 Polished: 39.5	16"-22"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									

Seat Pan – Backrest Angle	Seat Pan Angle	Tilt Range	Lumbar Support	Armrest Clearance /Inside Distance	Base Diameter Outside	Armrest Height	Armrest Length
96/111°	3/13°	101°/124°	Fixed: 9.0" Adj: 4" range	16.5-19.7"	26.0"	6.7"-10.8"	6.4"-7.7"
96/111°	3/13°	101°/124°	Fixed: 9.0" Adj: 4" range	19.3"	26.0"	6.7"-10.8"	6.9"-7.5"
96/111°	3/13°	101°/124°	Fixed: 9.0" Adj: 4" range	19.1"	26.0"	9.4"	7.8"
96/111°	3/13°	101°/124°	Fixed: 9.0" Adj: 4" range	N/A	26.0"	N/A	N/A

## Work Chair

### DESCRIPTION

This chair has a frameless 3D Intelligent™ Suspension back that allows freedom of movement, while providing targeted back support and moving heat away from the body. The suspension is supported by a Y Tower™ and anchored at the bottom by the ArcSpan™. The chair has an upholstered seat with foam padding and passive Posturefit® back support. The synchronous tilt provides continuous balance and lets the body recline naturally, pivoting at the ankles, knees, and hips. The chair has a 5-star base and 3 heightadjustment options. The chair is all black, including the Y-Tower, arms, arm pads, tilt cover, base, and black Crossover upholstery. Shipped knocked down and is ready to assemble with no tools required.

Tilt options include a tilt limiter and tilt limiter with seat angle. The tilt limiter allows the user to set the tilt range to limit the amount of recline. The tilt limiter with seat angle allows the user to set the tilt range and select a 5° forward seat angle.

Seat options include a fixed 16" seat depth, or an adjustable seat depth that allows the user to adjust the depth from 16" to 18".

Back-support options include a standard option with no additional support, and an adjustable lumbar support option. The standard option has passive Posturefit back support molded directly into the strands of the suspension material, providing targeted support at the base of the back, below the beltline, that helps achieve healthier posture and improved lower back comfort. The adjustable lumbar support option adds a user-adjustable lumbar that adjusts 4" in height.

Arm choices include a no arm option; a fixed, non-adjustable option; a height adjustable option that allows the arms to move 4" vertically; and a fully adjustable option that allows the arms to move 4" vertically, 1 3/8" horizontally, 2" front-to-back, with arm pads that pivot 11° inward and 11° outward.

A fire-retardant chair meets CAL 133 requirements. The chair's upholstered seat and back assembly is manufactured with a fire retardant additive.

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### CONSTRUCTION

#### Seat

The contoured seat shall be constructed of molded polypropylene insert with molded polyurethane foam. The foam shall have a nominal ½'- 1 ½" thickness and have waterfall edges. Fabric is applied non-bonded. When chairs are refurbished, the complete seat assembly can be replaced.

#### Back

##### Suspension

The suspension back shall be constructed of thermoplastic urethane (TPU), stretched and fastened onto a structural frame (ArcSpan) on the bottom and fastened at the top by a Y-Tower made of an injection-molded glass-filled nylon.

##### Upholstered

The upholstered back shall have a polypropylene insert with urethane foam (½'- 1" thick) with a stapled textile cover.

##### Lumbar Pad (optional)

##### Suspension Back Models

The suspension back lumbar pad is constructed of unfilled nylon. It attaches to and slides up and down on an acetal lumbar bow. This bow is attached to the suspension back by two translucent polycarbonate clips.

##### Upholstered Models

The lumbar adjustment shall be a polypropylene pad supported by a polypropylene insert and a glass-filled nylon lever.

See "Adjustments" for lumbar-support adjustments.

##### Arms (Optional)

Chairs shall be available with no arms, fixed arms, height-adjustable arms, and fully adjustable arms.



## SAYL® Chairs

Each arm shall have an arm support stem of glass-filled nylon with self-skinning polyurethane arm pads. Fixed and height adjustable arm pads shall be 8 6/8" by 2 3/4". Fully adjustable arm pads shall be 9 1/2" by 3 3/4".

Arms are detachable without tools; they are field-replaceable.

### **Tilt**

The tilt mechanism shall be 2 fiberglass leaf springs, a lead-screw-driven tension adjustment, and a stamped steel housing. The tilt mechanism shall be in a 4-piece, snap-together polypropylene cover.

The tilt tension adjustment control shall be a glass-filled polypropylene knob located to the side. The tilt tension adjustment shall have 18 full revolution turns.

A tilt limiter adjustment, constructed of an injection-molded glass-reinforced nylon tilt limiter lever shall come standard and extend from the side of the tilt. On chairs with an optional seat-angle adjustment, an injection-molded glass-reinforced lever shall extend out on the left side.

### **Base**

The 5-star base shall be glass-filled nylon with a textured finish. An optional die-cast aluminum base shall be available for a polished aluminum finish. The chair shall swivel 360°.

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 be coated black.

The seat height activator shall protrude from the back of the tilt tension knob. The activator shall be glassfilled polypropylene.

Pneumatic cylinders shall be available to support three seat height ranges. Pneumatic cylinders can be interchanged or replaced on site. See "Adjustments" for seat height ranges.

### **Casters**

Chairs shall be furnished with interchangeable casters. The chair shall be available with 2 1/2" diameter casters. Casters for use on carpet only shall have a steel stem and black nylon wheels and yoke. Casters for use on hard floors or carpet shall have a steel stem, black nylon wheels and yoke, and soft polyurethane tread. See the "casters and Glides" section for more information.

## **ADJUSTMENTS**

### **Seat Height**

The seat height shall be adjusted by raising the seat-height lever, which is mounted to the right side of the seat. Raising the lever shall increase the seat height when the chair is unoccupied, and lower the seat height when the seat is occupied.

The approximate seat height range (with CMD) shall be 16" to 20.5" for standard-height-range pneumatic chairs, 15" to 19" for low-height chairs and 16.5-22" for the extended-height chairs.

### **Tilt**

The tilt mechanism shall be a synchronous tilt. The tilt tension shall be adjusted by turning the tilt tension knob, which is located on the right side of the seat.

### **Back Recline**

Chairs with a standard tilt and tilt limiter shall have a nominal 25° of body-weight controlled recline (from horizontal). Chairs with a tilt limiter shall allow users to limit the amount of back recline in 3 incremental adjustments. Chairs with a tilt limiter and seat angle adjustment shall have a back recline range and a tilt limiter that allows users to limit the amount of back recline in 3 incremental positions. (4 positions with forward tilt)

### **Seat Angle**

Chairs with a tilt limiter and seat angle adjustment shall let the user select a +3° horizontal or -3° forward seat angle (6° from neutral angle).

# Sayl® Chairs

## Adjustable Arms (Optional)

The adjustable arms shall feature a height, width, pivot and fore/aft adjustment. They shall have a height range adjustment of 4". The arms width adjustment range shall be approximately 1 3/8"(each arm). The arm caps will pivot 11° in and 11° out. The arm caps will move front-to-back by 2".

## Height Adjustable Arms (Optional)

The height adjustable arms shall have a height range adjustment of 4".

## Lumbar Adjustment (Optional)

The lumbar support shall be height adjustable with a 4" range.

## PERFORMANCE DATA

The work chair shall be rated to support a maximum of 350 pounds. The chair shall accommodate the 5<sup>th</sup> percentile female to the 98<sup>th</sup> percentile male (through the combination of low, standard and high-range seat heights).

The standard chairs shall contain no flame retardant chemicals. Models with the FR options, rated to Cal 133 shall contain non-halogenated flame retardant chemicals.

See the "Seating Measurements" chart for chair dimensions.

The chair shall meet ANSI/HFES 100-2007 Human Factors Engineering of Computer Workstations standard.

## CASTERS

<b>Casters</b>	<b>Size Diameter</b>	<b>Type</b>	<b>Materials</b>	<b>Use</b>
BB	2 1/2"	hard double wheels	black nylon wheels and yoke	carpet
C7	2 1/2"	double wheels	black nylon wheels and yoke, soft polyurethane tread	hard floors or carpet
C9	2 1/2"	double wheels	black nylon wheels and yoke soft polyurethane tread internal brake	Hard floors or carpet
<b>Glides</b>	<b>Size Diameter</b>	<b>Type</b>	<b>Materials</b>	<b>Use</b>
GF	2 1/2"		Black nylon	hard floors or carpet

## Side Chairs Performance Information

SAYL Side chairs are designed to 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 (for non-tilting chairs), Section 7
- Drop test, Section 9
- Seating impact test, Section 12
- Stability test, Section 13
- Arm strength test vertical, Section 14
- Arm strength test horizontal, Section 15
- Back durability test (for non-tilting seats), Section 17
- Leg strength test front application, Section 19
- Leg strength test, side application, Section 20

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 BIFMA 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.

## Methodology and Dimension Description

The dimensions indicated with a (\*) are measured with the Universal Measurement Procedure For the Use of BIFMA Chair Measuring Device® (CMD) detailed in the BIFMA/CMD-1-2002 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 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.

**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.

# Sayl® Chairs

## Seating Measurements – Side Chairs

Chair Description	Seat Height	Seat Depth	Seat Width	Seat Pan Angle	Back-to-Seat Angle	Back Height	Back Width	Arm Height
<b>4-Leg Base</b>								
Without arms								
AS4SSN AS4SUN	18.5"	16.9"	18.5"	10°	94°	19.8"	16.7"	N/A
With arms								
AS4SSP AS4SUP	18.5"	16.9"	18.5"	10°	94°	19.8"	16.7"	8.3"

Chair Description	Arm-pad Inside Clearance*	Overall Height	Overall Depth	Overall Width	Weight (Pounds)
<b>4-Leg Base</b>					
Without arms					
AS4SSN AS4SUN	N/A	34 ¼"	22 5/8"	20 7/8"	16 17 19
With arms					
AS4SSP AS4SUP	21.2"	34 ¼"	22 5/8"	24"	17 19 21

Chair Description	Seat Height	Seat Depth	Seat Width	Seat Pan Angle	Back-to-Seat Angle	Back Height	Back Width	Arm Height
<b>Sled Base</b>								
Without arms								
AS5SSN AS5SUN	18"	16.9"	18.5"	6°	97°	19.3"	16.7"	N/A
With arms								
AS5SSP AS5SUP	18"	16.9"	18.5"	6°	97°	19.3"	16.7"	8.1"

Chair Description	Arm-pad Inside Clearance*	Overall Height	Overall Depth	Overall Width	Weight (Pounds)
<b>Sled Base</b>					
Without arms					
AS5SSN AS5SUN	N/A	34 ¼"	24 ¾"	20 7/8"	20 21 23
With arms					
AS5SSP AS5SUP	21.2"	34 ¼"	24 ¾"	24"	21 22 25

## Side Chair

### DESCRIPTION

This side chair has a 4-leg or Sled base with glides or casters. It has an upholstered seat with foam padding and is available with an upholstered or suspension back. It is available with or without arms. All styles of the 4-leg base chair can be stacked up to 4-chairs high on the floor. Sled base chairs are not stackable.

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### CONSTRUCTION

#### Seat

The side chair shall have a textured, integral color, injection glass-filled nylon seat pan with an upholstered pad. The pad includes a polypropylene shell covered in high-resiliency, medium-density molded polyurethane foam and wrapped in fabric. The upholstery shall not be glued to the foam; it shall be stapled to the polypropylene shell. See the current price book for a list of fabrics approved on SAYL chairs.

#### Back

#### Suspension

Side chairs with suspension backs shall be constructed of a textured, integral color, injection molded, glass filled nylon frame with nylon retainers screwed in place. A perforated thermoplastic urethane suspension material shall be snapped into the frame.

#### Upholstered

Side chairs with upholstered backs shall be constructed of a textured, integral color, injection molded, glass filled nylon frame, an upholstered front and rear insert made of polypropylene. The front insert shall be covered with a sheet of molded urethane foam; the foam shall be glued to the front insert. Both inserts are wrapped in fabric and stapled in place. The front and rear inserts have integral snaps that sandwich the frame between them. The upholstery shall not be glued to the foam. See the current price book for a list of fabrics approved on SAYL chairs.

#### Arms (Optional)

The side chairs (4-leg and sled-base) shall be available without arms or with fixed arms. Arm supports shall be rigid glass-filled nylon over a steel shaft.

#### 4-leg chair – Legs

The chair's leg shall be 7/8" diameter tubular steel and shall be finished with powder-coat epoxy paint. The legs shall be also available with a trivalent chrome finish.

#### Sled base chair

The sled chair's base shall be a 7/8" diameter welded steel tubular base with a secondary steel insert for strength; and shall be finished with powder-coat epoxy paint.

#### Casters & Glides (Optional)

The sled-base chair shall be available with optional nylon glides (XS) for use on hard floors or carpet. The four-leg base chair shall be available with optional casters or acetal glides.

### PERFORMANCE DATA

The chair shall be rated for 300 pounds.

Textiles and foam on the SAYL chair shall meet the California Technical Bulletin 117-2013 fire safety standard.

SAYL shall meet Cal TB 133 with select fire retardant (FR) models.

# Sayl® Chairs

## CASTERS

Castors	Size Diameter	Type	Materials	Use
<b>4-Leg</b>				
32	1 7/8"	Hard, double-wheel	Black nylon wheels and yoke	Carpet only
49	1 7/8"	Soft, double-wheel	Black nylon wheels and yoke, with urethane tread	Carpet or hard floors
<b>Glides</b>				
<b>4-Leg</b>				
16	2 1/8"		Black or fog acetal	Carpet only
69	2 1/8"		Black glass-filled nylon stem; steel-plated swivel foot with FloorSaver Glide insert	Hard floors
<b>Sled</b>				
XS	1/8"		Poly carbonate in black, fog, clear, and studio white finishes	Carpet or hard floors

## Stool Performance Information

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

SAYL 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
- Out stop test for chairs with manually adjustable seat depth, Section 21

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 (TB) 133: with approved FR models and textiles listed in the SAYL price book.
- California TB 133 is a composite test that evaluates the combustion performance of a complete chair.
- California Technical Bulletin (TB117-2013) – the foam and all HMI textiles used on SAYL comply with Cal TB 117.
- Cal 117-2013 is intended to determine the flame retardancy of resilient filling materials and textiles in upholstered furniture.

# SAYL® Chairs

## Sustainability Certifications/Compliance

- GREENGUARD® GOLD Certified
- Complies with ANSI/BIFMA M7.1-2001 and ANSI/BIFMA X7.1.
- Please contact the SAYL Environmental Product Sheet 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.

### **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.

**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.

**Seating Measurements – Stools (Suspension & Mid-back Upholstered)**

<b>Stools: Tilt Limiter &amp; Seat Angle, Fixed &amp; Adjustable Seat</b>										
Chair Description		Overall Height	Overall Width	Overall Depth	Weight (pounds)	Seat Height	Seat Depth	Seat Width	Backrest Height	Backrest Width
<b>Fully Adjustable Arms</b>										
Suspension	AS7VA53AF AS7SA53AF AS7VA53AA AS7SA53AA	51 ¾"	26.75"	26"	Polymer: 39.3 Polished: 42.6	23.5"-33.5"	Fixed 16"	18.25"	20.9"	16.9"
	Mid-back Upholstered				AS7VC53AF AS7SC53AF AS7VC53AA AS7SC53AA		Polymer: 40.8 Polished: 43.6			
<b>Height Adjustable Arms</b>										
Suspension	AS7VA53HF AS7SA53HF AS7VA53HA AS7SA53HA	51 ¾"	24.75"	26"	Polymer: 38.9 Polished: 41.7	23.5"-33.5"	Fixed 16"	18.25"	20.9"	16.9"
	Mid-back Upholstered				AS7VC53HF AS7SC53HF AS7VC53HA AS7SC53HA		Polymer: 39.9 Polished: 42.7			
<b>Fixed Arms</b>										
Suspension	AS7VA53PF AS7SA53PF AS7VA53PA AS7SA53PA	51 ¾"	24.75"	26"	Polymer: 38.9 Polished: 41.7	23.5"-33.5"	Fixed 16"	18.25"	20.9"	16.9"
	Mid-back Upholstered				AS7VC53PF AS7SC53PF AS7VC53PA AS7SC53PA		Polymer: 39.9 Polished: 42.7			
<b>No Arms</b>										
Suspension	AS7VA53NF AS7SA53NF AS7VA53NA AS7SA53NA	51 ¾"	23.5"	26"	Polymer: 37.2 Polished: 40	23.5"-33.5"	Fixed 16"	18.25"	20.9"	16.9"
	Mid-back Upholstered				AS7VC53NF AS7SC53NF AS7VC53NA AS7SC53NA		Polymer: 38.2 Polished: 41			

Seat Pan – Backrest Angle	Seat Pan Angle	Tilt Range	Lumbar Support	Armrest Clearance /Inside Distance	Base Diameter Outside	Armrest Height	Armrest Length
94/96/108°	-3/3/13°	91°/ 101°/117°	Fixed: 9.0" Adj: 4" range	16.5-19.7"	26.0"	6.7"-10.8"	6.4"-7.7"
94/96/108°	-3/3/13°	91°/ 101°/117°	Fixed: 9.0" Adj: 4" range	19.3"	26.0"	6.7"-10.8"	6.9"-7.5"
94/96/108°	-3/3/13°	91°/ 101°/117°	Fixed: 9.0" Adj: 4" range	19.1"	26.0"	9.4"	7.8"
94/96/108°	-3/3/13°	91°/ 101°/117°	Fixed: 9.0" Adj: 4" range	N/A	26.0"	N/A	N/A



# SAYL® Chairs

<b>Stools: Tilt Limiter, Fixed &amp; Adjustable Seat</b>										
Chair Description		Overall Height	Overall Width	Overall Depth	Weight (pounds)	Seat Height	Seat Depth	Seat Width	Backrest Height	Backrest Width
<b>Fully Adjustable Arms</b>										
Suspension	AS7VA52AF AS7SA52AF AS7VA52AA AS7SA52AA	51 ¾"	26.75"	26"	Polymer: 39.3 Polished: 42.6	23.5"-33.5"	Fixed 16"	18.25"	20.9"	16.9"
	Mid-back Upholstered				AS7VC52AF AS7SC52AF AS7VC52AA AS7SC52AA		Polymer: 40.8 Polished: 43.6			
<b>Height Adjustable Arms</b>										
Suspension	AS7VA52HF AS7SA52HF AS7VA52HA AS7SA52HA	51 ¾"	24.75"	26"	Polymer: 38.9 Polished: 41.7	23.5"-33.5"	Fixed 16"	18.25"	20.9"	16.9"
	Mid-back Upholstered				AS7VC52HF AS7SC52HF AS7VC52HA AS7SC52HA		Polymer: 39.9 Polished: 42.7			
<b>Fixed Arms</b>										
Suspension	AS7VA52PF AS7SA52PF AS7VA52PA AS7SA52PA	51 ¾"	24.75"	26"	Polymer: 38.9 Polished: 41.7	23.5"-33.5"	Fixed 16"	18.25"	20.9"	16.9"
	Mid-back Upholstered				AS7VC52PF AS7SC52PF AS7VC52PA AS7SC52PA		Polymer: 39.9 Polished: 42.7			
<b>No Arms</b>										
Suspension	AS7VA52NF AS7SA52NF AS7VA52NA AS7SA52NA	51 ¾"	23.5"	26"	Polymer: 37.2 Polished: 40	23.5"-33.5"	Fixed 16"	18.25"	20.9"	16.9"
	Mid-back Upholstered				AS7VC52NF AS7SC52NF AS7VC52NA AS7SC52NA		Polymer: 38.2 Polished: 41			

Seat Pan – Backrest Angle	Seat Pan Angle	Tilt Range	Lumbar Support	Armrest Clearance /Inside Distance	Base Diameter Outside	Armrest Height	Armrest Length
96/108°	3/13°	101°/117°	Fixed: 9.0" Adj: 4" range	16.5-19.7"	26.0"	6.7"-10.8"	6.4"-7.7"
96/108°	3/13°	101°/117°	Fixed: 9.0" Adj: 4" range	19.3"	26.0"	6.7"-10.8"	6.9"-7.5"
96/108°	3/13°	101°/117°	Fixed: 9.0" Adj: 4" range	19.1"	26.0"	9.4"	7.8"
96/108°	3/13°	101°/117°	Fixed: 9.0" Adj: 4" range	N/A	26.0"	N/A	N/A

**Seating Measurements – Stools (High-back Upholstered)**

<b>Stools: Tilt Limiter &amp; Seat Angle, Fixed &amp; Adjustable Seat</b>										
Chair Description		Overall Height	Overall Width	Overall Depth	Weight (pounds)	Seat Height	Seat Depth	Seat Width	Backrest Height	Backrest Width
<b>Fully Adjustable Arms</b>										
High-back Upholstered	AS7VD53AF AS7SD53AF AS7VD53AA AS7SD53AA	54 ¼"	26.75"	26"	Polymer: 41.1 Polished: 43.9	23.5"-33.5"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									
<b>Height Adjustable Arms</b>										
High-back Upholstered	AS7VD53HF AS7SD53HF AS7VD53HA AS7SD53HA	54 ¼"	24.75"	26"	Polymer: 40.2 Polished: 43	23.5"-33.5"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									
<b>Fixed Arms</b>										
High-back Upholstered	AS7VD53PF AS7SD53PF AS7VD53PA AS7SD53PA	54 ¼"	24.75"	26"	Polymer: 40.2 Polished: 43	23.5"-33.5"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									
<b>No Arms</b>										
High-back Upholstered	AS7VD53NF AS7SD53NF AS7VD53NA AS7SD53NA	54 ¼"	23.5"	26"	Polymer: 38.5 Polished: 41.3	23.5"-33.5"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									

Seat Pan – Backrest Angle	Seat Pan Angle	Tilt Range	Lumbar Support	Armrest Clearance /Inside Distance	Base Diameter Outside	Armrest Height	Armrest Length
94/96/108°	-3/3/13°	91°/ 101°/117°	Fixed: 9.0" Adj: 4" range	16.5-19.7"	26.0"	6.7"-10.8"	6.4"-7.7"
94/96/108°	-3/3/13°	91°/ 101°/117°	Fixed: 9.0" Adj: 4" range	19.3"	26.0"	6.7"-10.8"	6.9"-7.5"
94/96/108°	-3/3/13°	91°/ 101°/117°	Fixed: 9.0" Adj: 4" range	19.1"	26.0"	9.4"	7.8"
94/96/108°	-3/3/13°	91°/ 101°/117°	Fixed: 9.0" Adj: 4" range	N/A	26.0"	N/A	N/A

# SAYL® Chairs

<b>Stools: Tilt Limiter, Fixed &amp; Adjustable Seat</b>										
Chair Description		Overall Height	Overall Width	Overall Depth	Weight (pounds)	Seat Height	Seat Depth	Seat Width	Backrest Height	Backrest Width
<b>Fully Adjustable Arms</b>										
High-back Upholstered	AS7VD52AF AS7SD52AF AS7VD52AA AS7SD52AA	54 ¼"	26.75"	26"	Polymer: 41.1 Polished: 43.9	23.5"-33.5"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									
<b>Height Adjustable Arms</b>										
High-back Upholstered	AS7VD52HF AS7SD52HF AS7VD52HA AS7SD52HA	54 ¼"	24.75"	26"	Polymer: 40.2 Polished: 43	23.5"-33.5"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									
<b>Fixed Arms</b>										
High-back Upholstered	AS7VD52PF AS7SD52PF AS7VD52PA AS7SD52PA	54 ¼"	24.75"	26"	Polymer: 40.2 Polished: 43	23.5"-33.5"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									
<b>No Arms</b>										
High-back Upholstered	AS7VD52NF AS7SD52NF AS7VD52NA AS7SD52NA	54 ¼"	23.5"	26"	Polymer: 38.5 Polished: 41.3	23.5"-33.5"	Fixed 16"	18.25"	23.8"	17.1"
	Adjust 16-18"									

Seat Pan – Backrest Angle	Seat Pan Angle	Tilt Range	Lumbar Support	Armrest Clearance /Inside Distance	Base Diameter Outside	Armrest Height	Armrest Length
96/111°	3/13°	101°/117°	Fixed: 9.0" Adj: 4" range	16.5-19.7"	26.0"	6.7"-10.8"	6.4"-7.7"
96/111°	3/13°	101°/117°	Fixed: 9.0" Adj: 4" range	19.3"	26.0"	6.7"-10.8"	6.9"-7.5"
96/111°	3/13°	101°/117°	Fixed: 9.0" Adj: 4" range	19.1"	26.0"	9.4"	7.8"
96/111°	3/13°	101°/117°	Fixed: 9.0" Adj: 4" range	N/A	26.0"	N/A	N/A

**Stool****DESCRIPTION**

This stool has a frameless 3D Intelligent™ Suspension back that allows freedom of movement, while providing targeted back support and moving heat away from the body. The suspension is supported by a Y Tower™ and anchored at the bottom by the ArcSpan™. The stool is also available with an upholstered back. The stool has an upholstered seat with foam padding and passive Posturefit® back support. The synchronous tilt provides continuous balance and lets the body recline naturally, pivoting at the ankles, knees, and hips. The stool has a 5-star base and seat height adjustments. A user adjustable footrest assembly is included to provide a place for foot support. Stools are shipped fully assembled.

Tilt options include a tilt limiter and tilt limiter with seat angle. The tilt limiter allows the user to set the tilt range to limit the amount of recline. The tilt limiter with seat angle allows the user to set the tilt range and select a 5° forward seat angle.

Seat options include a fixed 16" seat depth, or an adjustable seat depth that allows the user to adjust the depth from 16" to 18".

Back-support options include a standard option with no additional support, and an adjustable lumbar support option. The standard option has passive Posturefit back support molded directly into the strands of the suspension material, providing targeted support at the base of the back, below the beltline, that helps achieve healthier posture and improved lower back comfort. The adjustable lumbar support option adds a user-adjustable lumbar that adjusts 4" in height.

Arm choices include a no arm option; a fixed, non-adjustable option; a height adjustable option that allows the arms to move 4" vertically; and a fully adjustable option that allows the arms to move 4" vertically, 1 3/8" horizontally, 2" front-to-back, with arm pads that pivot 11° inward and 11° outward.

A fire-retardant stool meets CAL 133 requirements. The stool's upholstered seat and back assembly is manufactured with a fire retardant additive.

**CONSTRUCTION****Seat**

The contoured seat shall be constructed of molded polypropylene insert with molded polyurethane foam. The foam shall have a nominal 1/2'- 1 1/2" thickness and have waterfall edges. Fabric is applied non-bonded. When chairs are refurbished, the complete seat assembly can be replaced.

**Back****Suspension**

The suspension back shall be constructed of thermoplastic urethane (TPU), stretched and fastened onto a structural frame (ArcSpan) on the bottom and fastened at the top by a Y-Tower made of an injection-molded glass-filled nylon.

**Upholstered**

The upholstered back shall have a polypropylene insert with urethane foam (1/2'- 1" thick) with a stapled textile cover.

**Lumbar Pad (optional)****Suspension Back Models**

The suspension back lumbar pad is constructed of unfilled nylon. It attaches to and slides up and down on an acetal lumbar bow. This bow is attached to the suspension back by two translucent polycarbonate clips.

**Upholstered Models**

The lumbar adjustment shall be a polypropylene pad supported by a polypropylene insert and a glass-filled nylon lever.

See "Adjustments" for lumbar-support adjustments.

**Arms (Optional)**

Chairs shall be available with no arms, fixed arms, height-adjustable arms, and fully adjustable arms.

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Each arm shall have an arm support stem of glass-filled nylon with self-skinning polyurethane arm pads. Fixed and height adjustable arm pads shall be 8 6/8" by 2 3/4". Fully adjustable arm pads shall be 9 1/2" by 3 3/4".

Arms are detachable without tools; they are field-replaceable.

### **Tilt**

The tilt mechanism shall be 2 fiberglass leaf springs, a lead-screw-driven tension adjustment, and a stamped steel housing. The tilt mechanism shall be in a 4-piece, snap-together polypropylene cover.

The tilt tension adjustment control shall be a glass-filled polypropylene knob located to the side. The tilt tension adjustment shall have 18 full revolution turns.

A tilt limiter adjustment, constructed of an injection-molded glass-reinforced nylon tilt limiter lever shall come standard and extend from the side of the tilt. On chairs with an optional seat-angle adjustment, an injection-molded glass-reinforced lever shall extend out on the left side.

### **Base**

The 5-star base shall be glass-filled nylon with a textured finish. An optional die-cast aluminum base shall be available for a polished aluminum finish. The chair shall swivel 360°.

The stool 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 be coated black.

The seat height activator shall protrude from the back of the tilt tension knob. The activator shall be glass filled polypropylene.

A pneumatic cylinder is included to provide seat height ranges. Pneumatic cylinders can be replaced on site. See "Adjustments" for seat height ranges.

### **Casters**

Chairs shall be furnished with interchangeable casters. The chair shall be available with 2 1/2" diameter casters. Casters for use on carpet only shall have a steel stem and black nylon wheels and yoke. Casters for use on hard floors or carpet shall have a steel stem, black nylon wheels and yoke, and soft polyurethane tread. See the "casters and Glides" section for more information.

### **Footrest Assembly**

Stools shall be furnished with a user adjustable footrest assembly. The footrest assembly is constructed of an aluminum die cast spoke, tubular steel foot ring with trivalent chrome finish, and integral locking mechanism.

## **ADJUSTMENTS**

### **Seat Height**

The seat height shall be adjusted by raising the seat-height lever, which is mounted to the right side of the seat. Raising the lever shall increase the seat height when the chair is unoccupied, and lower the seat height when the seat is occupied.

The approximate seat height range (with CMD) shall be 23.5" to 33.5".

### **Tilt**

The tilt mechanism shall be a synchronous tilt. The tilt tension shall be adjusted by turning the tilt tension knob, which is located on the right side of the seat.

### **Back Recline**

Stools with a standard tilt and tilt limiter shall have a nominal 16° of body-weight controlled recline (from horizontal). Stools with a tilt limiter shall allow users to limit the amount of back recline in 2 incremental adjustments. Stools with a tilt limiter and seat angle adjustment shall have a back recline range and a tilt limiter that allows users to limit the amount of back recline in 2 incremental positions. (3 positions with forward tilt)

### **Seat Angle**

Stools with a tilt limiter and seat angle adjustment shall let the user select a +3° horizontal or -3° forward seat angle (6° from neutral angle).

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## Adjustable Arms (Optional)

The adjustable arms shall feature a height, width, pivot and fore/aft adjustment. They shall have a height range adjustment of 4". The arms width adjustment range shall be approximately 1 3/8"(each arm). The arm caps will pivot 11° in and 11° out. The arm caps will move front-to-back by 2".

## Height Adjustable Arms (Optional)

The height adjustable arms shall have a height range adjustment of 4".

## Lumbar Adjustment (Optional)

The lumbar support shall be height adjustable with a 4" range.

## Footrest Assembly

The footrest assembly is height adjustable with a range of 4 1/2".

## PERFORMANCE DATA

Stools shall be rated to support a maximum of 350 pounds. See the "Seating Measurements" chart for chair dimensions.

## CASTERS

<b>Castors</b>	<b>Size Diameter</b>	<b>Type</b>	<b>Materials</b>	<b>Use</b>
BB	2 1/2"	hard double wheels	black nylon wheels and yoke	carpet
C7	2 1/2"	double wheels	black nylon wheels and yoke, soft polyurethane tread	hard floors or carpet
C9	2 1/2"	double wheels	black nylon wheels and yoke soft polyurethane tread internal brake	Hard floors or carpet
<b>Glides</b>	<b>Size Diameter</b>	<b>Type</b>	<b>Materials</b>	<b>Use</b>
GF	2 1/2"		Black nylon	hard floors or carpet