

TECHNICAL PRODUCT SPECIFICATION

(A GLOBAL PRODUCT DOCUMENT)

Series™ 2 (436 Series) Work Chair and Stool

Last updated: 07 Apr 26

Updated by: Tom Maas

POSITIONING STATEMENT

Steelcase Series 2 is the attainable, high-performing task chair that you can personalize with extensive style choices. The backrest signals comfort while the slim profile and light-scale look help optimize your space. The back features an innovative geometric design that flexes in two dimensions to provide continuous support for your spine as you move.

A	WARRANTY AND TESTING INFORMATION
A.1	► WARRANTY
A.1.1	Steelcase offers a global product limited lifetime warranty that product is free from defects in materials and workmanship (includes shipping, parts and labor for the repair or replacement of defective item.)
A.1.2	The following lifetime warranty exceptions are allowed:
A.1.2.1	- Mechanisms, pneumatic cylinders, arm caps, foam, glides and casters have a 12-year warranty.
A.1.2.2	- Upholstery materials are covered by regional warranties.
A.1.3	Complete warranty coverage is available online or upon request.
A.1.4	Product line is warranted for 24/7 application.
A.1.4.1	- Multi-use applications do not cause the warranty listed above to be pro-rated.
A.2	► TESTING
A.2.1	The product meets or exceeds the appropriate sections of the following internationally recognized testing:
A.2.1.1	- ANSI/BIFMA X5.1 General-Purpose Office Chair Tests
A.2.1.2	- ANSI/BIFMA X6.1 Educational Seating Tests
A.2.2	Seating padding materials and fabric comply with the BIFMA First Generation Voluntary Upholstered Furniture Flammability Standard.
A.2.3	Standard seating fabric complies with the State of California Technical Information Bulletin 117.
A.2.4	Testing of fabric abrasion, stain resistance and durability is documented and available upon request.
A.2.5	Steelcase maintains membership on the Board of Directors of BIFMA (Business Institutional Furniture Manufacturers Association) and thus shall readily accept new and revised furniture industry standards as they are introduced.
A.2.6	Chairs and Stools are tested to support 181 Kg (400 lbs) with no loss in performance.

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B	ENVIRONMENTAL FEATURES
B.1	SUMMARY OF PRODUCT ENVIRONMENTAL PROFILE (COMPLETE DOCUMENT INCLUDING LEED CREDITS IS AVAILABLE ONLINE OR UPON REQUEST)
B.2	► MATERIALS CHEMISTRY
B.2.1	Product is constructed free of environmentally hazardous materials and processes.
B.2.2	Painted components are coated with powder coat paint, which results in minimal waste, consumes less energy and requires no solvents, compared to traditional wet paint processes.
B.2.3	Upholstery fabrics are available which meet MBDC Cradle-to-Cradle™ Bronze sustainable design certification. These fabrics contain less than 100 parts per million of any heavy metals of concern, which includes antimony, which is traditionally found in polyester fabrics.
B.3	► LIFE CYCLE ASSESSMENT
B.3.1	In lieu of disposing furniture in a landfill at the end of its useful life, Steelcase provides opportunities for the Customer to recycle resell or refurbish their used furniture.
B.3.2	A KD ("knock down") version of the chair is available to reduce the amount of packaging produced, used and recycled. KD versions also allow more chairs to fit in the shipping container or trailer, reducing carbon emissions associated with all aspects of distribution.
B.4	► RECYCLED CONTENT AND RECYCLABILITY
B.4.1	The latest sustainability information for this product including embodied carbon, recycled content, and recyclability is available online or from your local dealer.
B.4.3	An illustrated document (aka "disassembly directions") is available to define how the product can be disassembled into recyclable components.
B.5	► CERTIFICATIONS
B.5.1	Product is certified to meet the emissions requirements of the California DPH Standard Practice for the Testing of Volatile Organic Emissions from Various Sources-2004 (CA Section 01350) and ANSI/BIFMA X7.1 Standard for Formaldehyde and TVOC Emissions of Low-emitting Office Furniture Systems and Seating using either the open plan or private office exposure scenarios defined in ANSI/BIFMA M7.1 Standard Test Method for Determining VOC Emissions from Office Furniture Systems, Components, and Seating. Testing is conducted in accordance with ANSI/BIFMA M7.1. Certification is provided by an organization independent of the manufacturer as well as from the testing laboratory, in accordance with the requirements of ISO/IEC Guide 65 General requirements for bodies operating product certification systems.
B.5.1.1	- The above requirement is covered by SCS Indoor Advantage™ Gold Certification for indoor air quality.

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B.5.2	Product is Level® 3 Certified with the BIFMA e3 Furniture Sustainability Standards for this product to meet or exceed the most current environmental standards in the furniture industry.
B.5.3	Models that carry CarbonNeutral® certification are offered to help organizations achieve their carbon emission goals.
C	PRODUCT DESIGN FEATURES
C.1	► OVERALL DIMENSIONS
C.1.1	Overall depth is 489mm (19-1/4") to 558.8mm (22")
C.1.2	Overall width is 685.8mm (27").
C.1.3	Overall height is:
C.1.3.1	- Chairs: 965.2mm (38") to 1079.5mm (42-1/2")
C.1.3.2	- Stools: 1130.3mm (44-1/2") to 1320.8mm (52")
C.2	► BACKREST
C.2.1	Backrest is offered in several different styles, including:
C.2.1.1	- Plastic Airback
C.2.1.2	3D Microknit (applied over Plastic Airback)
C.2.1.3	- Fully Upholstered (with or without a fabric back cover)
C.2.1.4	- Fully Upholstered - Quilted
C.2.2	Dimensions
C.2.2.1	- Backrest height from seat is 584.2mm (23").
C.2.2.2	- Backrest width is 470mm (18-1/2").
C.2.3	Backrest features a user-adjustable lumbar support.
C.2.3.1	- Lumbar height adjustment range is 69.9mm (2-3/4").
C.2.3.2	- A neutral position is provided at the bottom of the lumbar adjustment range for when the user doesn't desire lumbar support.
C.2.3.3	- Intuitive lumbar adjustment is within reach of the seated occupant.
C.2.3.4	- Customer has the option to omit the lumbar if desired.
C.2.4	Back tension and recline control knob (aka "Comfort Dial") is located on the right side of the chair for easy user adjustment. Three positions are engaged at each audible click

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	when the knob is turned:
C.2.4.1	■ Weight-activated
C.2.4.2	■ Weight-activated plus boost
C.2.4.3	■ Upright (locked – no recline)
C.2.5	• Width of the backrest provides adequate support for the curvature of the user's back without causing localized pressure points.
C.2.6	• Backrest allows for healthy spinal motion; allowing for frequent movement and postural change to support user comfort.
C.2.7	• Chair design does not constrain user's torso to a position forward of vertical, but achieves a position that is vertical or the rear of vertical.
C.2.8	• Backrest design provides structural support for the entire length of the spine from the lower back through the thoracic area.
C.2.9	• Back support is designed to allow heat to dissipate from the body through the seat to offer the user thermal comfort
C.2.10	• An optional adjustable headrest for chairs has the following features:
C.2.10.1	■ Aesthetically pleasing design unique to Series 2.
C.2.10.2	■ Vertical adjustment in a 82.6mm (3-1/4") range without tools. At its lowest position, the headrest adds no more than 203.2mm (8") to the overall height of the chair.
C.2.10.3	■ Headrest features an upholstered contoured foam cushion for comfort.
C.2.10.4	■ Can be added or removed as needed.
C.2.11	• An optional coat hanger (for chairs without headrests) has the following features:
C.2.11.1	■ Aesthetically pleasing design unique to Series 2.
C.2.11.2	■ Coat hanger is field-installed with screws.
C.2.11.3	■ Can be added or removed as needed.
C.3	► SEAT
C.3.1	• A pneumatic cylinder is used to accomplish a 127mm (5") seat height adjustment range between 419mm (16-1/2") – 546mm (21-1/2") per HFES 100. Stool seat has an adjustment in a 196.8mm (7-3/4") range between 584.2mm (23") – 781mm (30-3/4").
C.3.1.1	■ An optional chair cylinder provides a 76.2mm (3") seat height range between 358.8mm (14-1/8") – 435mm (17-1/8") for petite users.
C.3.1.2	■ An optional chair cylinder provides a 127mm (5") seat height range between 438.2mm (17-1/4") – 565.2mm (22-1/4") for larger users.

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C.3.2	• Seat width is 495.3mm (19-1/2").
C.3.3	• Seat features a depth adjustment within a range of 393.7mm (15-1/2") to 470mm (18-1/2") to provide optimal comfort.
C.3.3.1	■ Actuator paddle is located under the front of the seat for easy and intuitive operation (lift to free seat and release to lock).
C.3.3.2	■ Adjustable seat depth allows the user's back to be in full contact with the backrest while preventing contact between the back of the knee and the front of the seat pan.
C.3.4	• Seat is offered in many upholstery options including multiple families of fabric, leather and vinyl.
C.3.5	• Seat pan (fabric, cushion, and seat shell) are designed to be easily replaced in less than 5 minutes by a manufacturer trained installer to lengthen your products lifecycle.
C.3.6	• Seat width does not limit the ability to comfortably use the armrests.
C.3.7	• Seat pan angle is 2° (passive) to keep the user's torso-thigh angle greater than 90° per ANSI/HFES 100-2007 requirements.
C.3.8	• Seat does not have hard edges which can create pressure points that lead to discomfort.
C.3.9	• Channels and pockets molded within the seat cushion provide consistent comfort and support to a range of users.
C.4	► MECHANISM
C.4.1	• Mechanism provides a continuous recline range of 19-1/2°.
C.4.2	• The angle between the seat and backrest falls between 94° and 120°.
C.4.3	• Chair has a weight activated mechanism with an intuitive boost option to accommodate the 5th to 95th percentile population.
C.4.4	• Mechanism allows the user to remain properly oriented to their monitor, keyboard, and mouse while in a reclined posture.
C.4.5	• Chair swivels 360 degrees.
C.4.6	• Controls are visible, textured, and easy to reach from a seated position on both sides of the chair. Control knobs and levers are easy to manually manipulate with fingertips from the seated position.
C.5	► ARMS
C.5.1	• Two independently adjustable arm options are available:
C.5.1.1	■ Height-, Width-, Pivot-, Depth-Adjustable (HWPDP)

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C.5.1.1.1	○ Height adjustment: 108mm (4-1/4") between 184.2mm (7-1/4") H and 292.1mm (11-1/2") H from the seat to relieve upper back and shoulder fatigue. Actuated with an intuitive trigger on the arm stalk.
C.5.1.1.2	○ Width adjustment range between arms is 406.4mm to 527mm (16" to 20-3/4") W including pivot. This range allows users of all sizes of arms to be supported naturally by their side rather than in an extended "chicken wing" position. Extending arms in combination with reorienting hands to keyboards causes pinching and could lead to carpal tunnel.
C.5.1.1.3	○ Pivot adjustment: 30° inward and 30° outward.
C.5.1.1.4	○ Depth adjustment: 76.2mm (3"). This range enables individuals to get closer to their work.
C.5.1.1.6	○ Armrest pivot, width and depth adjustments are made by simply pushing or pulling.
C.5.1.2	■ Height-only Adjustable
C.5.1.2.1	○ Height adjustment: 108mm (4-1/4") between 184.2mm (7-1/4") H and 292.1mm (11-1/2") H from the seat to relieve upper back and shoulder fatigue. Actuated with an intuitive trigger on the arm stalk.
C.5.1.2.2	○ Width between arms is 508mm (20").
C.5.2	• Arms remain stationary while user adjusts postures to maintain proper orientation to their worktools.
C.5.3	• Arm adjustments are made without the use of any tools.
C.5.4	• User is able to make all arm adjustments while seated.
C.5.5	• The height of the armrest allows users to sit in a variety of postures while supporting their forearms and/or elbows in a manner that avoids lifting the shoulders or leaning to the side to reach armrest. The armrest height allows accessibility to and performance of tasks.
C.5.6	• Arm rests (arm caps)
C.5.6.1	■ Arm cap length of 241.8mm (9-1/2") allows user to sit in a variety of positions while supporting their forearms in a manner that avoids lifting the shoulders and/or excessive outward positioning of the elbows.
C.5.6.2	■ Material is soft, yet durable self-skinning urethane foam. All top edges are tapered and rounded.
C.5.6.3	■ Width is 95mm (3-3/4") for comfort.
C.5.7	• An armless option is also available.
C.6	► BASE / CASTERS

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C.6.1	Base is a glass-filled nylon five-star base which measures 667mm (26-1/4").
C.6.1.1	- An aluminum base is offered as an option.
C.6.2	Five swivel casters are 65mm (2-1/2" nom.) diameter for ease of mobility.
C.6.3	Standard hard caster wheels are constructed of durable nylon for smooth and quiet rolling.
C.6.3.1	- A soft wheel caster option features an internal brake which is applied only when the chair is under load to reduce shifting when the user sits down. This option helps satisfy the European EN12529 safety standard.
C.6.4	Dual caster wheels feature steel axles.
C.6.5	Casters swivel on freely rotating steel pintles.
C.6.6	Five casters on chair base contact the floor on a 705mm (27-3/4") diameter for optimal balance of stability and floor space.
C.6.7	Nylon glides are offered as an alternative to casters. Glide height and caster height closely match to maintain seating height dimensions.
C.7	► FEATURES SPECIFIC TO STOOL
C.7.1	Four spoke aluminum foot ring is 20" 500mm (20") diameter and user-adjustable without tools up to 89mm (3-1/2").
C.7.2	Pneumatic cylinder has an adjustment in a 260.4mm (10-1/4") range to place the seat height between 641.4mm (25-1/4") – 901.7mm (35-1/2").
D	CONSTRUCTION METHODS, MATERIALS UTILIZED, AND ASSOCIATED BENEFITS
D.1	► SEAT
D.1.1	Seat shell is flexible molded polypropylene plastic.
D.1.1.1	- Integrated features in the seat shell limit travel of seat depth adjustment.
D.1.2	Seat cushion is 3 lbs/cu ft. density polyurethane foam, 55.6mm (2-3/16") thick in the center, which provides the proper amount of support and prevents the user from bottoming out on the seat.
D.1.2.1	- Air pockets strategically placed beneath the seat cushion allow for consistent comfort and support to a range of users.
D.2	► BACKREST
D.2.1	Outer frame is made up of structural molded plastic components to provide perimeter support.
D.2.2	Inner frame features integrally molded flexors to create an interdependent system

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	designed to mimic and support the natural motion of the user's back.
D.2.3	Backrest features an adjustable lumbar support (refer to D.4).
D.2.4	Optional headrest
D.2.4.1	Headrest cushion consists of an upholstered foam-covered polypropylene plastic inner shell with flanges on the back to provide for a pivot adjustment.
D.2.4.2	Headrest outer shell is a nylon plastic part with spring-loaded nylon pivot pins.
D.2.4.3	Nylon plastic backrest bracket supports the headrest post (allowing vertical adjustment) while providing attachment to the backrest with integral mating flanges and screws.
D.2.5	Optional coat hanger
D.2.5.1	Coat hanger is a molded nylon plastic part which is attached to the backrest with integral mating flanges and screws.
D.3	► MECHANISM
D.3.1	Mechanism consists of primarily steel and aluminum components, with zinc and plastic bearings to ensure quiet operation.
D.4	► ADJUSTABLE LUMBAR
D.4.1	Lumbar features a flexible molded polypropylene lumbar support which is concealed within backrest with exposed contrasting adjustment handles on both sides.
D.4.1.1	Lumbar handles are made of acetal and polypropylene to minimize resistance during adjustment and include ribbed surfaces for ease of grasping the handles.
D.5	► ARMS
D.5.1	Arms are available in two versions:
D.5.1.1	Height-, Width-, Pivot- and Depth-Adjustable Arm (standard) components:
D.5.1.1.2	HWPDA arm stalks are handed structural nylon plastic parts which slide up and down on the arm supports. The height adjustment mechanisms and triggers reside inside the stalks.
D.5.1.1.3	Arm supports are handed structural plastic parts which attach to the chair control with screws.
D.5.1.1.4	Arm caps are made up of two components, a rigid support base and a soft, self-skinning urethane foam top. Screws fasten the two halves together and screws fasten the bases to the arm stalks.
D.5.1.1.5	Width-, pivot- and depth-adjustment mechanisms are concealed inside the arm cap bases.

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D.5.1.2	■ Height-only Adjustable Arm components
D.5.1.2.1	○ Height-only arm stalks are handed structural plastic parts which slide up and down on the arm supports. The height adjustment mechanisms and triggers reside inside the stalks.
D.5.1.2.2	○ Arm supports are handed structural plastic parts which attach to the chair control with screws.
D.5.1.2.3	○ Arm caps are made up of two components, a rigid support base and a soft, self-skinning urethane foam top. Screws fasten the two halves together and screws fasten the bases to the arm stalks.
D.6	► FEATURES SPECIFIC TO STOOL
D.6.1	• Adjustable 500mm (20") diameter foot ring assembly is a steel ring with aluminum hub and plastic adjustment mechanism.
D.6.2	• Stool features an extended height pneumatic cylinder with 10-1/4" adjustment range.
D.7	► CHAIR BASE
D.7.1	• 5-arm base is glass-filled nylon plastic or optional aluminum
D.7.2	• Top-actuated pneumatic cylinder is standard construction and filled with inert gas, rated at a minimum of 300 Newtons in compression and extension. Cylinder supplies a damping, shock-absorbing action on user impact.
D.7.3	• Standard 65mm (2-1/2") hard caster wheels are constructed of durable nylon for smooth and quiet rolling.
D.7.3.1	■ Soft, roll control wheels are offered as an option. These casters look the same but have a slight braking action when there is minimal or no weight in the seat, so the chair will not roll away from a person trying to sit down or lean against a chair.
D.7.4	• Dual caster wheels feature steel axles.
D.7.5	• Casters swivel on freely rotating steel pintles.
D.8	► UPHOLSTERY
D.8.1	• Seat cushion is fully upholstered and replaceable.
D.8.1	■ Some seat fabrics offered do not feature stitched seams.
D.8.2	• Backrest is offered in several styles, including:
D.8.2.1	■ Plastic Airback
D.8.2.2	■ 3D Microknit
D.8.2.3	■ Fully Upholstered (with or without a fabric back cover)

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D.8.2.4	■ Quilted Upholstery
E	SURFACE MATERIALS
E.1	• Seat, backrest and headrest upholstery choices contain the following:
E.1.1	■ Fabric
E.1.2	■ Leather
E.1.3	■ COM (Customer's Own Material)
E.1.4	■ The following additional upholstery options may not be available in all regions:
E.1.4.1	○ Vinyl
E.1.4.2	○ Faux Leather
E.1.4.3	○ COL (Customer's Own Leather)
E.1.4.4	○ Fabric with soil retardant treatment (not available in all regions)
E.2	• Backrest is also offered in Plastic Airback, with or without 3D knit material applied.
E.2.1	■ Optional headrest cushion is also offered in matching 3D knit material.
E.3	• Back frame, arm holsters and plastic base – black, dark grey or light grey.
E.4	• Optional aluminum base - polished aluminum
E.5	• Arm caps and casters – black
E.6	• Stool column and foot ring – black
E.7	• Optional chair headrest upright support – black, dark grey or light grey.
E.8	• Optional coat hanger – black, dark grey or light grey.
E.9	• Lumbar and backrest flexors are available in several colors to complement or contrast the backrest upholstery.
F	MISCELLANEOUS
F.1	• The customer has at least three options for receiving product: factory-built and cartoned, factory-built and uncartoned or left as KD ("knock down").
F.1.1	■ KD version of the chair consists of four components and assembly requires no tools.
F.2	• Service parts are available (replacement cushions, arm caps, casters, pneumatic cylinder, etc.)
F.3	• Statement of line includes a work chair and a stool.

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F.4	Any single chair or stool is able to accommodate a 5th percent female to a 95th percent male using the adjustment features. There is no need for multiple models (e.g. Type A-B-C or 1-2-3) to meet the percentile requirement.
F.5	Overall dimensions of the chair do not exceed 27" in order to accommodate smaller work stations and conference room applications.
F.6	All user adjustments are made without the use of tools and no regular maintenance is required.
F.7	Product is guaranteed in writing to be available for a minimum of 10 years after first order entry.
F.8	All measurements are taken using the most current accepted BIFMA Chair Measurement Device (CMD) available.
F.9	Seating products are finished, uniform in quality, clean and free from any defect that might affect their appearance and serviceability.
F.10	All components and welded surfaces are smooth and free from sharp edges, burrs and other hazards to safety.
F.11	Upholstery is applied neatly and stretched equally in all directions, free from distortion. The upholstery is applied in such a way that maintains a tight fit and is smoothed out for higher quality purposes.