



Ology™

Product Environmental Profile is an environmental declaration according to the objectives of ISO 14021. Precise, accurate, verifiable and relevant information on sustainability attributes of Ology™.

Ology™ was designed with the worker in mind, bringing physiology and biology together to support wellbeing at work. Ology™ offers a height-adjustable desk solution, providing users the flexibility to shift postures throughout the day. Ology™ can be personalized with various ergonomic features and an optional antimicrobial treatment to create a more health-conscious work environment.

The model chosen for analysis is the most representative line (reference # OLELRQ) from the Ology™ offering. Standard features on this model include:

- 4-preset controller
- integrated rail
- power and data access door and tray
- soft edge
- laminate worksurface

Environmental Overview

Final Assembly Location

Final assembly of Ology™ is in Grand Rapids, Michigan, USA, and Tijuana, Mexico, by Steelcase for the Americas and select counties. Please check with your local salesperson to learn the full list of where Ology™ can be ordered.

Life Cycle Performance >

Steelcase considers each phase of the life cycle: from materials extraction, production, transport, use and reuse, through the end of its life.

Materials >

Materials Composition

A break down of the basic materials in Ology™.

Materials Chemistry

Steelcase's materials chemistry practice aims to design products with materials that support human and environmental health, throughout all phases of the life cycle.

Recycled Materials and Recyclability

Ology™ contains 56.0% recycled materials, by weight (49.0% pre-consumer + 7.0% post-consumer).

At the end of its useful life, Ology™ is 40% effectively recyclable by weight.

Certifications and Labels >

The environmental and social performance of Ology™ is communicated through the following voluntary labels/certifications:

- SCS Indoor Advantage™ Gold
- BIFMA level® 2

Other targeted labels and certificates:

- FSC™

LEED Contribution >

Ology™ may contribute in the following areas:

- Recycled content
- Materials reuse
- Regional materials
- Low-emitting materials
- Interior life cycle impact reduction
- Design for flexibility
- Daylight and views
- Planning
- Management
- Environmentally Preferable finishes and furnishings
- Social equity in the supply chain

Life Cycle Performance

Steelcase considers each phase of the life cycle: from materials extraction, production, transport, use and reuse, through the end of its life.

Materials

This phase includes raw materials extraction and transformation into material ready to be used.

- **Ology™ contains 56.0% recycled materials**, by weight (49.0% pre-consumer + 7.0% post-consumer).
- **Materials** chemistry assessment completed for this product.
- **Low formaldehyde emissions** of wood-based components, according to ISO 16000 (<20 µg/m³).
- Is available with wood sourced from **responsibly managed forests**.
- Product comes standard with **PVC-free wiring and edge banding**.
- **Packaged with 100% recycled cardboard**, 20% recycled expanded PE, and 10% recycled LDPE film.
- **No REACH Substances of Very High Concern (SVHC)** present at concentrations greater than 0.1% according to data/declarations provided by our suppliers.

Production

This phase comprises all production and assembly processes taking place at Steelcase or at their suppliers and sub-suppliers.

- These plants are ISO 14001 and LEED certified.
- Final assembly of Ology™ is in Grand Rapids, Michigan, USA, and Tijuana, Mexico, by Steelcase for the Americas and select counties. Please check with your local salesperson to learn the full list of where Ology™ can be ordered.

Transport

This phase includes downstream transports.

- Flat / Optimized packaging.
- **Bulk packaging** used for this product, wherever possible, to optimize volume in shipping.
- Product is shipped knocked down 8 pieces in all possible scenarios - allowing for optimization of transport volume.

Use

During the use phase of the product - the longest phase of the life cycle - no significant environmental impacts occur.

- **Product meets ANSI/BIFMA Standards M7.1/X7.1** for low-VOC emissions to indoor air quality - SCS Indoor Advantage™ Gold.

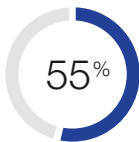
End of Use

Any product can become a resource itself, or be responsibly disposed of in different ways.

- **40% effectively recyclable by weight**, according to the current waste disposal schemes.
- **Primary plastic parts clearly labelled for easy sorting and effective recycling**, according to ISO 11469.
- **Disassembly and recycling directions available upon request**, for a representative configuration.

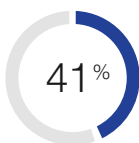
Materials

Ology™ materials composition is listed below*.



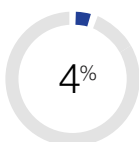
WOOD BASED MATERIALS

	kg	lb	%
Particle board	21.8	48.0	4.5
Laminate	2.1	4.6	47.4



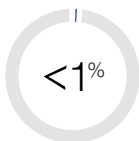
METALS

	kg	lb	%
Steel	18.6	40.9	40.5



PLASTICS

	kg	lb	%
Polyurethane (PU)	0.5	1.2	1.2
Polyoxymethylene (POM)	0.5	1.1	1.1
Polypropylene (PP)	0.4	1.0	1.0
Nylon (PA)	0.2	0.3	0.3
Glass-filled nylon (PA-GF)	<0.1	0.2	0.2
Synthetic rubber	<0.1	0.1	0.1
Other	1.6	3.5	3.5



OTHER MATERIALS

	kg	lb	%
Adhesive	<0.1	0.2	0.2

TOTAL WEIGHT

46.0

101.2

*The list of materials does not contain all materials used in the product (adhesives, coatings, residuals, etc.).

Materials Chemistry

Steelcase has conducted an internal evaluation of 90% of this product's materials based on the Steelcase Reportable Substance list.

Steelcase is working with our supply chain to inventory and assess materials in this product down to 0.01% (or 100 ppm) in each homogeneous material with the intent to eliminate chemicals of concern and optimize with healthier materials of equal or greater functionality.

We have contacted our suppliers for all products sold in the European Union to ensure that our products are compliant with REACh (Registration, Evaluation, Authorization and Restriction of Chemicals). When information from suppliers is not available, we rely on testing to ensure that our products meet required standards.

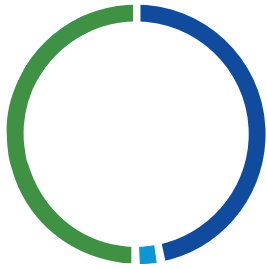
Technology components are RoHS compliant (Reduction of Hazardous Substances), meaning that Ology™ doesn't contain any of the six hazardous chemicals and chemical compounds listed by the RoHS European Directive.

Steelcase intends to avoid purchasing products, components, or materials containing any "Democratic Republic of the Congo (DRC) Conflict Minerals" (coltan (from which tantalum is derived), cassiterite (tin), gold, wolframite (tungsten), or their derivatives), and any other minerals or derivatives which the U.S. Secretary of State determines to be financing conflict in the DRC or an adjoining country.

Recycled Materials and Recyclability

Recycled materials are determined by weight and defined in accordance with the ISO 14021. They may include pre- and post-consumer materials:

- Pre-consumer materials (or post-industrial recycled materials) are materials diverted from the waste stream during a manufacturing process. Excluded is reutilization of materials such as rework, regrind or scrap generated in a process and capable of being reclaimed within the same process that generated it.
- Post-consumer materials are materials generated by households or by commercial, industrial and institutional facilities in their role as end-users of the final product, which can no longer be used for its intended purpose. This includes returns of material from the distribution chain.



OLGY™

	kg	lb	%
Pre-consumer recycled content	22.9	50.4	49
Post-consumer recycled content	3.4	7.5	7
Total recycled content	26.2	57.6	56

- Pre-consumer - Recycled content
- Post-consumer - Recycled content
- Virgin material

*Calculations of recycled materials are based on data provided by professional organizations, suppliers and other available information. Recycled content figures are based off of product weight only, and exclude packaging for evaluation to LEED contribution and other purposes. This data may include industry averages, ranges or other broadly based information. Steelcase makes conservative assumptions when compiling this information to provide the most accurate recycled content calculations possible but variability in market conditions or manufacturing processes may result in higher or lower content. This document will be reviewed and updated periodically and is subject to change without notice.

Recyclability

Steelcase considers a material recyclable if it can be effectively collected, sorted, processed, and converted into raw materials to be used in the production of new products.*Recyclability calculation does not include packaging.



40%

According to the available waste management infrastructures, we estimate that 40% is effectively recyclable.

*Excludes packaging. To be compliant with applicable regulations, Steelcase calculations are based on the materials having physical properties that allow recycling, our evaluation of the ability to disassemble the products and the actual availability of recycling services in the markets where the products are sold.

Certificates

To show continuous improvements, Steelcase communicates the environmental and social performance of its products through voluntary labels and declarations.

ON THE PRODUCTS

BIFMA level®

This product is level® 2 certified, BIFMA's sustainability certification program for furniture. This certification program assesses a products impact to materials, energy & atmosphere, human & ecosystem health, and social responsibility.

SCS Indoor Advantage™ Gold

This product is SCS Indoor Advantage™ Gold, certified according to the indoor air quality emissions requirements defined by the ANSI/ BIFMA M7.1- 2011.

ON THE MATERIALS

FSC™

This product can be ordered with Forestry Stewardship Council (FSC™) labeled wood, ensuring that these components originate from responsibly managed forests. Chain of custody: BV-COC-020349.

ON THE PLANTS

ISO 14001

The plants in Grand Rapids, Michigan, USA and Reynosa, Mexico are ISO (International Organization for Standardization) 14001 - Environmental management system certified.

LEED

The manufacturing plant in Grand Rapids, Michigan, USA is LEED® (Leadership in Energy and Environmental Design) certified.

¹ Indoor Advantage™ and Indoor Advantage™ Gold are trademarks of Scientific Certification Systems.

LEED 2009

LEED, or Leadership in Energy & Environmental Design, is a green building certification program that recognizes best-in-class building strategies and practices. Ology™ may contribute to a project's pursuit of LEED certification across the three rating systems:

- LEED-ID+C - Interior Design & Construction 2009 (formerly LEED-CI)
- LEED-BD+C - Building Design & Construction 2009 (formerly LEED-NC, LEED-Core & Shell & LEED-Schools)
- LEED-O+M - Operations & Maintenance (formerly LEED-EB)

CREDITS	RATING SYSTEM			POTENTIAL CONTRIBUTION*
	ID+C	BD+C	O+M	
Materials & Resources				
Recycled content	MRc4	MRc4 Healthcare: MRc5 Option 3	MRc2.2: Sustainable purchasing- Furniture	Ology™ contributes to the project recycled content criteria: post-consumer (7%) + ½ pre-consumer (49%) = 31.5%.
Materials reuse	MRc3.2	Healthcare: MRc5 Option 3		If chosen for reuse, this product can contribute to the 30% valuation of the furniture & furnishings budget
Regional materials	MRc5	Healthcare: MRc5 Option 3		Ology™ legs and lift are assembled in Grand Rapids, Michigan, USA, Tops are assembled in Tijuana, Mexico for Americas orders. Projects <500 miles from these locations qualify.
Indoor Environmental Quality				
Low emitting materials	EQc4.5	Healthcare: MRc5 Option 2	N/A	Ology™ is SCS Indoor Advantage™ Gold (depending on options) certified for indoor air quality in North America.
Daylight and views	EQc8.1 & 8.2	EQc8.1 & 8.2*	EQc2.4	Steelcase offers a range of products and application thought starters to assist customers in achieving these credits.

*For Potential Contribution: These are the probable contributions; exact contributions will be dependent on the LEED rating system and the specific product.

**For LEED BD+C: New Construction, these standards do not currently apply to furniture in the IEQ credit; however, the USGBC has allowed equivalent credit for furniture / furnishings when submitted as an Innovation in Design credit.

LEED V4

LEED is a rating system that drives integrated design thinking as it relates to various aspects of green buildings. Ology™ can contribute to a project's pursuit of LEED Certification across the three rating systems:

- LEED-ID+C - Interior Design & Construction
- LEED-BD+C - Building Design & Construction
- LEED-O+M - Operations & Maintenance

CREDITS	RATING SYSTEM			POTENTIAL CONTRIBUTION*
	ID+C	BD+C	O+M	

Materials & Resources				
Interior life cycle impact reduction	M Rc2 Option 2: Furniture Reuse	N/A	M Rc5 Option 2: Furniture	Steelcase products are designed to be long lasting and durable-- often making reuse a feasible option, depending on project needs and desirability.
Interior life cycle impact reduction	M Rc2 Option 3: Design for flexibility	N/A	M Rc5 Option 2: Furniture	If chosen for reuse, this product can contribute to the 30% valuation of the furniture & furnishings budget.

Indoor Environmental Quality				
Low emitting materials	EQc2	EQc2	M Rc5 Option 2: Furniture	Ology™ is SCS Indoor Advantage™ Gold certified for indoor air quality in North America.
		Healthcare M Rc7 Option 2: testing and modeling of chemical content		

*For Potential Contribution: These are the probable contributions; exact contributions will be dependent on the LEED rating system and the specific product.

Other Potential LEED V4 Contributions

CREDITS	RATING SYSTEM			POTENTIAL CONTRIBUTION*
	ID+C	BD+C	O+M	
Construction & Demolition Waste Planning & Management				
Planning	MR p2	MR p2	N/A	Steelcase uses several innovative packaging initiatives to minimize our waste impact (see transport section). These efforts may help to contribute, in part, towards achieving this prerequisite or credit.
Management	MRc6	MRc5 Healthcare: MRc9	N/A	

Pilot Credits: The following credits are potential contribution areas for Steelcase products and applications				
Environmentally preferable finishes and furnishings	MR Pilot	MR Pilot	N/A	Ology™ is BIFMA level® 2 certified, which contributes to this pilot credit.
Social equity in the supply chain	N/A	MR Pilot	N/A	Ology™ is level® 2 certified, which contributes to this pilot credit which demonstrates compliance to ANSI/BIFMA e3 Sustainability Standard – Social Responsibility sections 8.7.2.1 and 8.7.2.2

*For Potential Contribution: These are the probable contributions; exact contributions will be dependent on the LEED rating system and the specific product

Refer to www.usgbc.org for LEED Program details.

Steelcase sustainability related actions and results are communicated annually in the [Corporate Sustainability Report](#). 



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