



## Think

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

Think is a chair designed for the mobility of users in the workplace. It is smart, simple and sustainable.

Think is:

- **Smart:** because it does the Thinking for us. It fosters wellbeing through automatic ergonomic support thanks to its advanced weight activated mechanism and new membrane of flexors. It responds to our changing postures and body movements, allowing us to get to work faster, making the most of our valuable sit time.
- **Simple:** because it is very easy to use. It anticipates our postures, while still giving users the freedom to customize it to their own personal preferences.
- **Sustainable:** because it can be easily disassembled with common hand tools making it easy to recycle at end of life, and it has undergone materials chemistry and develop with a life cycle vision to understand and minimize its lifelong impact on the environment. In addition, its back frame and base are composed of recycled materials (PA6).

The model chosen for analysis is the most representative line (reference 465A300) from the Think range. Standard features on this model include:

- plastic base
- seat upholstery: "Atlantic"
- 4D armrests
- back upholstery without any foam: "3D"
- lumbar

# Environmental Overview

## Final Assembly Location

Final assembly of Think is in Sarrebourg, France, by Steelcase, for the EMEA (Europe, Middle East and Africa) market.

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## 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.

To measure the environmental impacts of Think, Steelcase performed a Life-Cycle Assessment (ISO 14040-44), the results of which are disclosed in an Environmental Product Declaration (EPD – ISO 14025).

## Materials ▶

### Materials Composition

A break down of the basic materials in Think.

### 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

Think contains 27.4% recycled materials, by weight (20.8% pre-consumer + 6.6% post-consumer).

At the end of its useful life, Think is 95% recyclable by weight.

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## Certifications and Labels ▶

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

- NF Environnement
- NF OEC
- SCS Indoor Advantage™ Gold
- Environmental Product Declaration (EPD)

## LEED Contribution ▶

Think may contribute in the following areas:

- Recycled content
- Regional materials
- Low-emitting material
- Design for flexibility
- Environmental Product Declarations
- Material ingredients

# 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.

- **Contains 27.4% recycled materials**, by weight (20.8% pre-consumer + 6.6% post-consumer).
- **Materials chemistry assessment** completed for this product.
- **No REACh Substances of Very High Concern (SVHC)** present at concentrations greater than 0.1% according to data/declarations provided by our suppliers.
- **No flame retardants nor phthalates nor biocides** added as defined by the requirements of NF Environnement and Blauer Engel RAL-UZ 38.
- **Materials** used in the manufacturing and assembly of our products **are not specified to contain nanomaterials**.
- **Plastic parts** do not contain pigments with Cadmium, Chrome VI and Mercury.
- **Eco-labelled textiles OekoTex / EU Ecolabel / Cradle to Cradle Certified™ and rapidly renewable wool textiles** available to specify with product.
- **Packaged with 100% recycled cardboard and 25% recycled LDPE film**.

## Production

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

- Final assembly of Think is in Sarrebourg, France, by Steelcase, for the EMEA (Europe, Middle East and Africa) market.
- This plant is ISO 14001 and OHSAS 18001 certified.

## Transport

This phase includes downstream transports.

- Made in Europe
- Product is shipped knocked down 4 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.
- **Designed for a long product life**, with replaceable parts that are easy to change.
- Clean with only soapy water.
- Maintenance information available upon request.

## End of Use

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

- **Designed to enable responsible end of use strategies** - re-selling, refurbishing, charitable donation or recycling.
- **Designed for a quick and easy disassembly of materials** - with no permanent assembly.
- **Disassembly and recycling directions available upon request**, for a representative configuration.
- **95% effectively recyclable by weight**, according to the current waste disposal schemes.
- **100% effectively recyclable packaging**.
- **Primary plastic parts clearly labelled for easy sorting and effective recycling**, according to ISO 11469.
- Steelcase offers a comprehensive asset management service for furniture that is no longer needed. For more information, and to see if this service is available in your area, please contact Eco'Services at [eco-services@steelcase.com](mailto:eco-services@steelcase.com)

### For more information

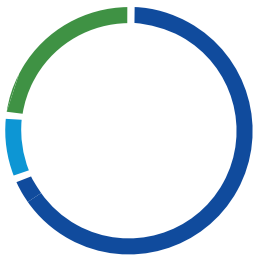
Ask for the Environmental Product Declaration (EPD) (according to ISO 14025) which communicates the estimated environmental impacts of this product throughout its life cycle, using the life cycle assessment methodology ISO 14040/14044.



## 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.



### THINK

	kg	%
Pre-consumer recycled content	3.3	20.8
Post-consumer recycled content	1.1	6.6
<b>Total recycled content</b>	<b>4.8</b>	<b>27.4</b>

- 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.



**95%**

According to the available waste management infrastructures, we estimate that 95% is effectively recyclable.

\*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 that actual availability of recycling services in the markets where the products are sold.

# Certifications and Labels

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

## ON THE PRODUCTS

### EPD

This product has gone through the LCA methodology, which results have been communicated through a voluntary Type III Environmental Product Declaration, according to the objectives of ISO 14025.

### NF Environnement

This product is NF Environnement certified, meaning it complies with 20 product lifecycle criteria.

### Office Excellence Certifié

This product is NF OEC (Office Excellence Certifié) certified, meaning it complies with safety, ergonomic, environmental and social requirements.

### SCS Indoor Advantage™ Gold

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

## ON THE MATERIALS

### Cradle to Cradle Certified™

A selection of textile options are Cradle to Cradle Certified™ <sup>(2)</sup> Silver, which assesses and rates products for material health, material reutilization, renewable energy and carbon management, water stewardship, and social fairness.

### European Ecolabel

A selection of pure wool fabrics are labelled with the European Ecolabel, guaranteeing that it meets stringent quality and environmental performance criteria.

### Oeko-Tex

A selection of fabrics are certified with the Oeko-Tex 100 Standard, guaranteeing a limited presence of harmful substances

## ON THE PLANTS

### ISO 14001

The plant in Sarrebourg, France is ISO (International Organization for Standardization) 14001 - Environmental management system certified.

### OHSAS 18001

The plant in Sarrebourg, France is OHSAS 18001 (Occupational Health and Safety Assessment Series) management system certified.

<sup>(1)</sup> Indoor Advantage™ and Indoor Advantage™ Gold are trademarks of Scientific Certification Systems.

<sup>(2)</sup> Cradle to Cradle Certified™ is a certification mark licensed by the Cradle to Cradle Products Innovation Institute.

# LEED V3 – 2009

LEED, or Leadership in Energy & Environmental Design, is a green building certification program that recognizes best-in-class building strategies and practices. The entire Think range 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	
<b>Materials &amp; Resources</b>				
Recycled content	M Rc4	M Rc4 Healthcare: M Rc5 Option 3	M Rc2.2: Sustainable Purchasing- Furniture	Think contributes to the project recycled content criteria: post-consumer (6.6%) + ½ pre-consumer (20.8%) = 17%.
Materials reuse	M Rc3.2	M Rc3 Healthcare: M Rc5 Option 3		If chosen for reuse, this product can contribute to the 30% valuation of the furniture & furnishings budget
Regional materials	M Rc5	M Rc5 Healthcare: M Rc5 Option 3		Think is assembled in Sarrebourg, France for EMEA orders. Projects < 800 kilometers from this location qualify.
Rapidly renewable materials	M Rc6	M Rc6 Healthcare: M Rc5 Option 3		Steelcase offers textile and surface material options that may contribute to this credit.
<b>Indoor Environmental Quality</b>				
Low emitting materials	EQc4.5	Healthcare: M Rc5 Option 2	N/A	Think is SCS Indoor Advantage™ Gold (depending on options) certified for indoor air quality in EMEA.

\*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. The whole Think range 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	
<b>Materials &amp; Resources</b>				
Interiors life-cycle impact reduction	Option 2: Furniture Reuse	N/A		Steelcase products are designed to be long lasting and durable-- often making reuse a feasible option, depending on project needs and desirability.
Building product disclosure and optimization - sourcing of raw materials	Option 2: Leadership extraction practices	Option 2: Leadership extraction practices  Healthcare - Medical furniture & furnishings  Option 3: Multi-attribute assessment	Purchasing - facility maintenance and renovation  Option 2: furniture	Extended Producer Responsibility - Steelcase offers different end of use / end of life programs for different markets, to reuse, resell, refurbish, donate, or recycle the mix of existing assets – all in an effort to divert materials from the landfill (See notes below).  Bio-based materials - Steelcase offers select textile and surface material options that may contribute to this credit.  Materials Reuse - If chosen for reuse, this product can contribute.  Recycled content - Think [contributes to the project recycled content criteria]: post-consumer (6.6%) + ½ pre-consumer (20.8%) = (17.0%).
Building product disclosure and optimization - environmental product declarations	Option 1: Environmental Product Declaration	Furniture and medical furnishings  Option 3: Multi-attribute assessment of products  Option 1: Environmental Product Declaration	N/A	A life cycle assessment has been performed on Think, the results of which are published through a Type III Environmental Product Declaration (available for viewing).
Construction & Demolition Waste Planning & Management	Required	Required	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.

\*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	
<b>Indoor Environmental Quality</b>				
Low emitting materials	Option 1: Product Category Calculations or Option 2: Budget Calculation Method	Required  Option 1: Product Category Calculations or Option 2: Budget Calculation Method  Furniture and medical furnishings  Option 2: testing and modeling of chemical content	Purchasing - facility maintenance and renovation  Option 2: Furniture	Think is SCS Indoor Advantage™ Gold certified for indoor air quality in EMEA.

\*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](http://www.usgbc.org) for LEED Program details.

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

**Steelcase®**

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