



## B-Free screen

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 B-Free screen.

B-Free range welcomes varied work postures -reading, reclining, or leaning in to a conversation. From focused individual work to a casual meeting, B-Free provides thoughtful, comfortable support.

### B-Free screen

Screens provide a subtle barrier from distractions, a visual shelter while keeping workers connected to the surrounding environment.

The model chosen for analysis is the most representative one (reference N3L T00 460) from the B-Free range. Standard features on this model include:

- H1500 x W1025 x D750
- polyester knit cover
- adjustable glides

# Environmental Overview

## Final Assembly Location

Final assembly of B-Free screen is in Tarnowo Podgórze, Poland, for 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.

## Materials >

### Materials Composition

A break down of the basic materials in B-Free screen.

### 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

B-Free screen contains 23% recycled materials, by weight (10% pre-consumer + 13% post-consumer).

At the end of its useful life, B-Free screen is 99% recyclable by weight.

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## Certifications and Labels >

The environmental and social performance of B-Free screen is communicated through the following voluntary labels / certifications:

- NF Environnement
- NF OEC
- SCS Indoor Advantage™ Gold

## LEED Contribution >

B-Free screen may contribute in the following areas:

- Recycled content
- Materials reuse
- Regional materials
- Low-emitting materials
- Daylight and views
- Interiors life-cycle impact reduction
- Construction & Demolition Waste Planning & Management

# 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 23% recycled materials**, by weight (10% pre-consumer + 13% post-consumer).
- **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.

## Production

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

- Final assembly of B-Free screen is in Tarnowo Podgórne, Poland, for Steelcase, for the EMEA (Europe, Middle East and Africa) market.

## Transport

This phase includes downstream transports.

- Made in Europe
- Product is shipped flat 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.

- **Designed for a long product life**, with replaceable parts that are easy to change.
- **Product meets** ANSI/BIFMA Standards M7.1/X7.1 for low- VOC emissions to indoor air quality- SCS Indoor Advantage™ Gold.
- Clean with only soapy water.
- Maintenance information available upon request.

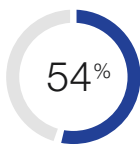
## End of Use

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

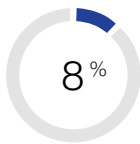
- **Designed to enable responsible end of use strategies** - re-selling, refurbishing, charitable donation or recycling.
- **Designed for quick and easy disassembly of materials** - with no permanent assembly.
- **99% recyclable by weight**, according to the current waste disposal schemes.
- **100% recyclable 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).

# Materials

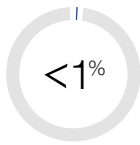
B-Free screen materials composition is listed below\*.



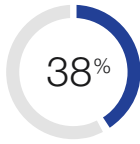
METALS		
	kg	%
Steel	7.6	54.5
Zinc (Zamak)	<0.1	<0.1



OTHER MATERIALS		
	kg	%
Polyester fabric	1.1	7.6
Adhesive	<0.1	<0.1



PLASTICS		
	kg	%
Nylon (PA)	<0.1	0.3
Polypropylene (PP)	<0.1	<0.1



PACKAGING		
	kg	%
Cardboard	4.9	34.7
Low density polyethylene (LDPE)	0.4	2.5
Expanded polyethylene (EPE)	<0.1	0.3

**TOTAL WEIGHT – incl. packaging                      14.0**

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

## Materials Chemistry

Steelcase’s goal in its materials chemistry practice is to design products with materials that are ecologically sound, and that mitigate the risk to human and environmental health, throughout all phases of the life cycle.

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

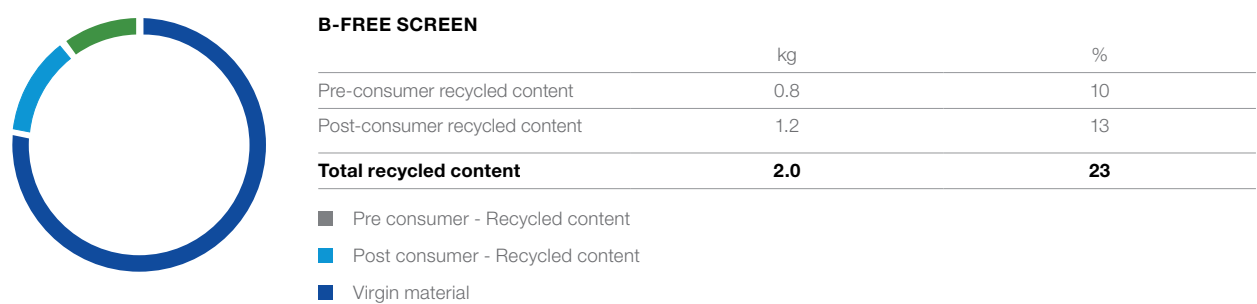
Chemicals). When information from suppliers is not available, we rely on testing to ensure that our products meet required standards.

Steelcase intends to avoid from 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:

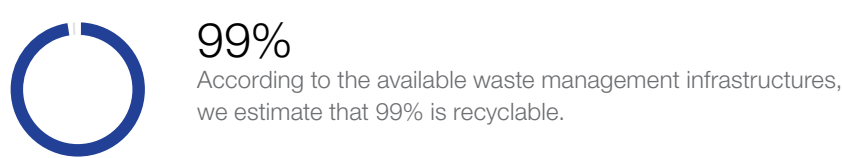
- Pre-consumer materials (or post-industrial recycled materials) are materials diverted from the waste stream during a manufacturing process. Excluded is reutilization of materials such as rework, regrind or scrap generated in a process and capable of being reclaimed within the same process that generated 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.



\*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.



\*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

### NF Environnement

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

### NFOffice 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™ Gold certified, according to the indoor air quality emissions requirements defined by the ANSI/BIFMA M7.1- 2011.

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

# 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. B-Free screen 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	B-Free screen contributes to the project recycled content criteria: post-consumer (13%) + ½ pre-consumer (10%) = 18%.
Materials reuse	MRc3.2	MRc3 Healthcare: MRc5 Option 3		If chosen for reuse, this product can contribute to the 30% valuation of the furniture & furnishings budget
Regional materials	MRc5	MRc5 Healthcare: MRc5 Option 3		B-Free screen is assembled in Tarnowo Podgórze, Poland for EMEA orders. Projects < 500 miles from this location qualify.

Indoor Environmental Quality				
Low emitting materials	EQc4.5	Healthcare: MRc5 Option 2	N/A	B-Free screen is SCS Indoor Advantage™ Gold (depending on options) certified for indoor air quality in EMEA.
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. B-Free screen 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				
Interiors life-cycle impact reduction	Option 2: Furniture Reuse	N/A	Purchasing - facility maintenance and renovation  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.
Interiors life-cycle impact reduction	Option 3: Design for flexibility	N/A		B-Free screen is designed to be adaptable for design needs today and in the future-- and can easily be changed to remain on pace with evolving business needs.
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	
Indoor Enviromental Quality				
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	B-Free screen is SCS Indoor Advantage™ Gold certified for indoor air quality in EMEA.
Quality views	Credit	Credit	Daylight and quality views  Option 2: Quality views	Steelcase offers a range of products and application thought starters, though several other factors play into achieving this credit, beyond the scope of furniture.

\*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](#). >

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