



Product pictured is not the exact style of the product studied in this document.

Verb Chevron Student table

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 Verb.

Verb Chevron Student table

Verb is an integrated, mobile classroom collection designed to support a range of teaching and learning styles on demand. Verb provides the tools to transform any classroom into an active learning space.

The model chosen for analysis is the most representative one (reference VTC 140 50) from the Verb range. Standard features on this model include:

- 1400 x 500 mm top size
- 750 mm height
- unique chevron shape to improve sight lines, encourage collaboration and help define personal work area
- side dock with hook and central dock functions
- 2 front legs with castors and 2 rear legs with glides to allow easy mobility

De Projectinrichter

www.deprojectinrichter.com
088 - 650 12 34

Environmental Overview

Final Assembly Location

Final assembly of Verb is in Rosenheim, Germany, for Steelcase, for the EMEA market.

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 Verb.

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

Verb contains 49% recycled materials, by weight (29% pre-consumer + 20% post-consumer).

At the end of its useful life, Verb is 97% recyclable by weight.

Certifications and Labels >

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

- PEFC™
- Blauer Engel
- E1

LEED Contribution >

Verb may contribute in the following areas:

- Recycled content
- Materials reuse
- Regional materials
- Interiors life-cycle impact reduction
- Construction & Demolition Waste Planning & Management
- Daylight and views
- Building product disclosure and optimization - sourcing of raw materials
- Quality views

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 49% recycled materials**, by weight (29% pre-consumer + 20% post-consumer).
- **Packaged with 65% recycled cardboard.**
- Product is available with wood sourced from **responsibly managed forests.**
- **No use of woods from genetically modified trees.**
- **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.**
- **No SVHC** (Substances of Very High Concern) present at concentrations **greater than 0.1%** according to data/declarations provided by our suppliers.
- **Low formaldehyde emissions** of wood-based components, according to ISO 16000 (<20 µg/m³).
- **No additional adhesives between edge band and particle board** (seamless edge banding), depending on colours.
- **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 Verb is in Rosenheim, Germany for the EMEA (Europe, Middle East, Africa) market.
- The Rosenheim plant is ISO 14001 and EMAS certified.
- The coating systems operate in accordance with the requirements of the European VOC Directive.

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.
- Clean with only soapy water.
- Maintenance information available upon request.

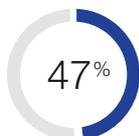
End of Use

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.
- **97% 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.

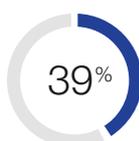
Materials

Verb materials composition is listed below*.



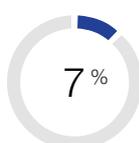
WOOD BASED MATERIALS

	kg	%
Particle board	11.5	46.5



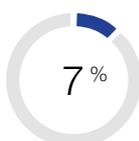
METALS

	kg	%
Steel	9.7	39



PLASTICS

	kg	%
Polypropylene (PP)	1.5	5.9
Nylon 6 (PA6)	0.3	1.1
Nylon 6 with glass beads (PA6-GB)	0.1	0.2
High density polyethylene (HDPE)	<0.1	<0.1
Polyester (PET)	<0.1	<0.1



PACKAGING

	kg	%
Cardboard	1.1	4.7
Expanded polyethylene (EPE)	0.3	1.2
Low density polyethylene (LDPE)	0.3	1.1

TOTAL WEIGHT – incl. packaging 24.8

*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.

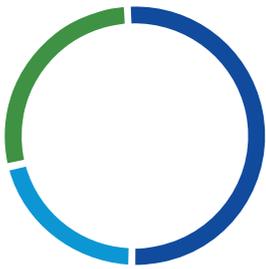
We have contacted our suppliers for all products sold in the European Union to ensure that our products are compliant with REACH (Registration, Evaluation, Authorization and Restriction of Chemicals). When information from suppliers is not available, we rely on testing to ensure that our products meet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



VERB

	kg	%
Pre-consumer recycled content	6.8	29
Post-consumer recycled content	4.6	20
Total recycled content	11.3	49

- 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.



97%

According to the available waste management infrastructures, we estimate that 97% is 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

Blauer Engel RAL-UZ 38

This product is targeted for Blauer Engel RAL-UZ 38 certification, according to environmental and consumer health requirements.

ON THE MATERIALS

PEFC

At least 90% of the wood components in this product are PEFC (Programme for the Endorsement of Forest Certification) labelled, ensuring that wood originates from sustainably managed forests. Chain of custody: FCBA/06-00787.

E1

The particle board of this product complies with the E1 standard of emissions / concentration of formaldehyde.

ON THE PLANTS

EMAS

The plant in Rosenheim, Germany is EMAS (European Eco-Management and Audit Scheme) certified.

ISO 14001

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

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. Verb 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	Verb contributes to the project recycled content criteria: post-consumer (20%) + ½ pre-consumer (29%) = 34.5%.
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		Verb is assembled in Rosenheim, Germany for EMEA orders. Projects < 500 miles from this location qualify.
Indoor Environmental Quality				
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. Verb 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		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		Verb 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.
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. Wood products - Steelcase offers FSC™ certified wood as an option on select products, which contributes to this option. Materials Reuse - If chosen for reuse, this product can contribute. Recycled content - (20%) post-consumer + ½ pre-consumer (29%) = 34,5%.
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 Environmental Quality				
Quality views	Credit	Credit	Credit	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 for LEED Program details.

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



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088 - 650 12 34

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EDUCATION

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