



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

LED Linear Shelf Task Lights

Product Environmental Profile is an environmental declaration according to the objectives of ISO 14021. Precise, accurate, verifiable and relevant information on sustainability attributes of LED Linear Shelf Task Lights.

A properly diffused light source under the linear head provides a softly blended light pattern that reduces eye strain.

The model chosen for analysis from the LED Linear range is reference # Style # LLL17. Standard features for LED Linear include:

- Available in 4 different widths
- Average Lamp Life is 50,000 hours
- Optional Occupancy Sensor
- Automatic turnoff program after 10 hours
- Continuous dimming from 100% to 15%

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.

- **LED Linear Shelf Task Lights contains 2.0% recycled materials**, by weight (1.0% pre-consumer + 1.0% post-consumer).
- **Product comes standard with PVC-free wiring.**
- **Packaged with 100% recycled cardboard.**
- **LED Linear Shelf Task Lights contains 0.0% new wood by weight.** FSC certified wood is available as a special for some product lines.
- **Products classified as office accessories**, such as desktop blotters, trays, tape dispensers, waste baskets, work tools, monitor arms and all electrical items such as desk lamps and other small appliances **are not considered in scope for certification** to the M7.1 standard.

Production

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

- Final assembly of LED Linear Shelf Task Lights is in Grand Haven, Michigan, USA for Steelcase for the Americas Market.
- The plant in Grand Haven, Michigan, USA is ISO (International Organization for Standardization) 14001 - Environmental management system certified.

Transport

This phase includes downstream transports.

- **Optimized packaging** to keep transportation volumes as low as possible and improve filling rates.
- Flat / Optimized packaging.
- Lightweight and delivered stacked.
- **Product is shipped flat in all possible scenarios** - allowing for optimization of transport volume.
- Made in North America.

Use

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

- **Product is equipped with LED lighting**, which are longer lasting and significantly reduce energy consumption.
- **Designed for a long product life**, with replaceable parts that are easy to change.

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.
- **36% recyclable by weight**, according to the current waste disposal schemes.
- **100% recyclable packaging.**
- **Designed for quick and easy disassembly of materials - with no permanent assembly.**
- **Primary plastic parts clearly labelled for easy sorting and effective recycling**, according to ISO 11469.
- **The Steelcase Phase 2 Program provides end-of-use, end-of-need and end-of-life disposition solutions that align with your Corporate Social Responsibility Goals.** For more information, and to see if this service is available in your area, please contact your Steelcase sales representative for more information.

Materials

LED Linear Shelf Task Lights materials composition is listed below*.



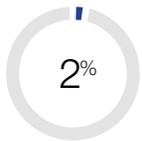
METALS

	kg	lb	%
Aluminum (extruded)	0.4	0.9	21.8
Steel	<0.1	0.1	3.3



WOOD BASED MATERIALS

	kg	lb	%
Chipboard	<0.1	0.1	2.2



PLASTICS

	kg	lb	%
Acrylonitrile butadiene styrene (ABS)	<0.1	<0.1	1.1
Polycarbonate (PC)	<0.1	<0.1	0.6
Nylon (PA)	<0.1	<0.1	0.1



OTHER MATERIALS

	kg	lb	%
Other:	0.9	2.0	50.3



PACKAGING

	kg	lb	%
Cardboard	0.4	0.8	20.8

TOTAL WEIGHT **1.5** **3.2**

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

Materials Chemistry

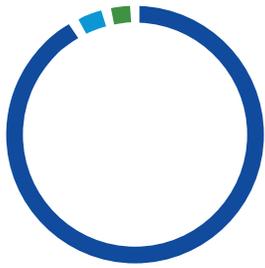
Steelcase's goal in its materials chemistry practice is to design products with materials that have been evaluated or assessed for several human and environmental health criteria – all in an effort to understand and optimize the products throughout their life cycle.

Steelcase intends to refrain 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.



LED LINEAR SHELF TASK LIGHTS

	kg	lb	%
Pre-consumer recycled content	<0.1	<0.1	1
Post-consumer recycled content	<0.1	<0.1	1
Total recycled content	<0.1	<0.1	2

- 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.



36%

According to the available waste management infrastructures, we estimate that 36% is 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.

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. LED Linear Shelf Task Lights 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	LED Linear Shelf Task Lights contributes to the project recycled content criteria: post-consumer (1.0)% + ½ pre-consumer (1.0)% = 1.5%.
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		<p>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).</p> <p>Bio-based materials - Steelcase offers select textile and surface material options that may contribute to this credit.</p> <p>Wood products - Steelcase offers FSC™ certified wood as an option on select products, which contributes to this option.</p> <p>Materials Reuse - If chosen for reuse, this product can contribute.</p> <p>Recycled content - 1% post-consumer + ½ pre-consumer 1% = 1.5%.</p>
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.

LED Linear Shelf Task Lights 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		LED Linear Shelf Task Lights 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 - (1.0%) post-consumer + ½ pre-consumer (1.0%) = 1.5%.
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	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 for LEED Program details.

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



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