



## Navi TeamIsland

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

**Navi is a system of desking and benching** at seated height and high-sit. Navi comes with multiple leg visuals and integrated storage and privacy elements.

The model chosen for analysis is the most representative line (reference # APDHXF7018L (full desk), APDSYIX18 (screen)) from the Navi range. Standard features on this model include:

- Seated and High-Sit options for desks/ benches
- Various leg options
- Integrated storage option
- Integrated podiums for collaboration

# Environmental Overview

## Final Assembly Location

Final assembly of Navi TeamIsland is in Dongguan, China for Steelcase for the AP (Asia Pacific) 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 Navi TeamIsland.

### 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

Navi TeamIsland contains 63.0% recycled materials, by weight (51.0% pre-consumer + 12.0% post-consumer).

At the end of its useful life, Navi TeamIsland is 46% effectively recyclable by weight.

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## Certifications and Labels ▶

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

- SCS Indoor Advantage™
- E1
- China Environmental Label
- Chinese National Standards (GB Standards)

### Other targeted labels and certificates:

- AFRDI Green Tick

## LEED Contribution ▶

Navi TeamIsland may contribute in the following areas:

- Recycled content
- Materials reuse
- Regional materials
- Low-emitting materials
- Interiors life-cycle impact reduction
- Daylight and views
- Construction and demolition waste 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.

- **Navi TeamIsland contains 63.0% recycled materials**, by weight (51.0% pre-consumer + 12.0% post-consumer).
- **Product comes standard with PVC-free wiring and edge banding.**
- **Packaged with 60% recycled cardboard**, 20% recycled expanded PE, and 20% recycled LDPE film.

## Production

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

- This plant is ISO 14001 and OHSAS 18001 certified.
- Water-based adhesives used in assembly.
- Final assembly of Navi TeamIsland is in Dongguan, China for Steelcase for the AP (Asia Pacific) market.

## 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.
- **Bulk packaging used for this product**, wherever possible, to optimize volume in shipping.
- Product is shipped knocked down 3-4 pieces pieces in all possible scenarios - allowing for optimization of transport volume.
- Made in Asia

## 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.

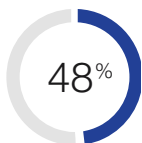
## End of Use

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.
- **46% effectively recyclable by weight**, according to the current waste disposal schemes.
- **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.

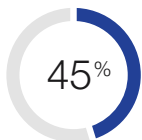
# Materials

Navi TeamIsland materials composition is listed below\*.



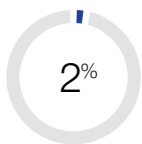
## WOOD BASED MATERIALS

	kg	%
Particle board	43.8	48.2



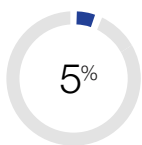
## METALS

	kg	%
Steel	21.9	24.2
Aluminum (cast)	16	17.6
Aluminum (extruded)	2.5	2.8



## PLASTICS

	kg	%
Acrylonitrile butadiene styrene (ABS)	0.5	0.6
Nylon 6 (PA6)	0.5	0.6
Polyethylene terephthalate (PET)	0.5	0.6
Thermoplastic elastomer (TPE)	0.5	0.6



## OTHER MATERIALS

	kg	%
Acrylic	3.5	3.9
Powder coating	0.5	0.6
Polyester fabric	0.5	0.6

**TOTAL WEIGHT 90.8**

\*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 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.

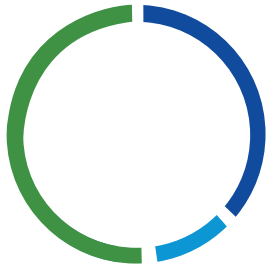
Steelcase is working with our supply chain to inventory and assess materials in this product down to 0.01% (or 100 ppm) in each homogeneous material with the intent to eliminate chemicals of concern and optimize with healthier materials of equal or greater functionality.

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.



### NAVI TEAMISLAND

	kg	%
Pre-consumer recycled content	46.2	51
Post-consumer recycled content	11.2	12
<b>Total recycled content</b>	<b>57.3</b>	<b>63</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.



46%

According to the available waste management infrastructures, we estimate that 46% 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

### AFRDI Green Tick

Navi TeamIsland is targeted for Furntech-AFRDI Green Tick certification under Standard 150:2012(Mar) – Sustainability Standard: Commercial Furniture.

### China Environmental Label

This product meets the HJ/T 303-2006 Technical requirement for environmental labeling of products by the Ministry of Environment Protection of P.R. China.

### Chinese National Standards (GB Standards)

This product meets GB/T 3324-2008, GB 18584-2001, and GB 18587-2001 established by the Standardization Administration of China.

### SCS Indoor Advantage™

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

## ON THE PLANTS

### ISO 14001

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

### OHSAS 18001

The plant in Dongguan, China 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.

# 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. Navi TeamIsland 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	MRc4	MRc4 Healthcare: MRc5 Option 3	MRc2.2:  Sustainable purchasing- Furniture	Navi TeamIsland contributes to the project recycled content criteria: post-consumer (12.0)% + ½ pre-consumer (51.0)% = 37.5%.
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		Navi TeamIsland is assembled in Dongguan, China for AP orders. Projects <500 miles from this location qualify.
<b>Indoor Environmental Quality</b>				
Low emitting materials	EQc4.5	Healthcare: MRc5 Option 2	N/A	Navi TeamIsland is SCS Indoor Advantage™ (depending on options) certified for indoor air quality in AP.
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. Navi TeamIsland 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	Purchasing - facility maintenance and renovation	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	Option 2: furniture	If chosen for reuse, this product can contribute to the 30% valuation of the furniture & furnishings budget.
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.



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	Navi TeamIsland is SCS Indoor Advantage™ certified for indoor air quality in Asia Pacific.
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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