

# ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH ISO 14025:2006, ISO 14040 AND ISO 14044

SmartEPD-2026-144-0959-01

## Cushion Sleeve: PCSLSH-B-CR



**PANDUIT™**



|                       |                    |                      |
|-----------------------|--------------------|----------------------|
| <b>Date of Issue:</b> | <b>Expiration:</b> | <b>Last updated:</b> |
| Jun 25, 2026          | Jun 25, 2031       | Aug 23, 2026         |

Refer to the EPD Library at [www.smartepd.com](http://www.smartepd.com) for the latest EPD listing information



General Information

Panduit

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|                             |                                                                                                                                                                                                               |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:               | Cushion Sleeve: PCSLSH-B-CR                                                                                                                                                                                   |
| Functional Unit:            | 1 unit to mount a cable or a tube at a point with a cushion sleeve with a clamping capacity between 12.7 mm (minimum) and 203 mm (maximum) for a service life of 20 years, including end-of-life disposition. |
| Declaration Number:         | SmartEPD-2026-144-0959-01                                                                                                                                                                                     |
| Date of Issue:              | June 25, 2026                                                                                                                                                                                                 |
| Expiration:                 | June 25, 2031                                                                                                                                                                                                 |
| Last updated:               | August 23, 2026                                                                                                                                                                                               |
| EPD Scope:                  | Cradle to grave<br>A1 - A3, A4, A5, B1 - B7, C1 - C4, D                                                                                                                                                       |
| Market(s) of Applicability: | Global                                                                                                                                                                                                        |

General Organization Information

At Panduit, sustainability drives business practices. They are committed to providing the most cost-efficient and environmentally sound solutions available. Because sustainable business practices have always been at the core of what Panduit does, it is a natural progression for them to create award-winning solutions that put sustainable business at the foundation of other infrastructure, too.

Further information can be found at: <https://www.panduit.com/en/about/about-panduit/environmental-social-and-governance.html>

Limitations, Liability and Ownership

This declaration is an environmental product declaration (EPD) in accordance with ISO 14025 and EN 15804+A2. EPDs rely on Life Cycle Assessment (LCA) to provide information on a number of environmental impacts of products over their life cycle. Exclusions: EPDs do not indicate that any environmental or social performance benchmarks are met, and there may be impacts that they do not encompass. LCAs do not typically address the site-specific environmental impacts of raw material extraction, nor are they meant to assess human health toxicity. EPDs can complement but cannot replace tools and certifications that are designed to address these impacts and/or set performance thresholds – e.g. Type 1 certifications, health assessments and declarations, environmental impact assessments, etc.

Accuracy of Results: EPDs regularly rely on estimations of impacts, and the level of accuracy in estimation of effect differs for any particular product line and reported impact. Comparability: EPDs are not comparative assertions and are either not comparable or have limited comparability when they cover different life cycle stages, are based on different product category rules or are missing relevant environmental impacts. EPDs from different programs may not be comparable.

Reference Standards

|                                |                                                                                                                                            |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Standard(s):                   | ISO 14025:2006, ISO 14040 and ISO 14044                                                                                                    |
| Core PCR:                      | PEP PCR Electrical, Electronic and HVAC-R Products v.4                                                                                     |
|                                | Date of issue: September 06, 2021                                                                                                          |
| Sub-category PCR:              | PEP ecopassport® PROGRAM PSR Specific Rules for Cable Management Solutions (PSR-0003-ed2.1-EN-2023 12 08) v.2.1                            |
|                                | Date of issue: December 08, 2023                                                                                                           |
|                                | Valid until: December 08, 2028                                                                                                             |
| Sub-category PCR review panel: |  Contact Smart EPD for more information.                  |
| General Program Instructions:  |  Smart EPD General Program Instructions v.2.0, March 2025 |

Verification Information

|                       |                                                                                                                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LCA Author/Creator:   |  Olivia Jurewicz                                                                                                                                     |
|                       |  Sustainable Solutions Corporation                                                                                                                   |
|                       |  olivia@sustainablesolutionscorporation.com                                                                                                          |
| EPD Program Operator: |  Smart EPD                                                                                                                                           |
|                       |  info@smartepd.com                                                                                                                                 |
|                       |  www.smartepd.com                                                                                                                                  |
|                       |  585 Grove St., Ste. 145, Herndon, VA 20170, USA                                                                                                   |
| Verification:         | Independent critical review of the LCA and data, according to ISO 14044 and ISO 14071:                                                                                                                                                |
|                       |  Hugues Imbeault-Tétreault    hugues.i-tetreault@groupeageco.ca |
|                       | Independent external verification of EPD, according to ISO 14025 and reference PCR(s):                                                                                                                                                |
|                       |  Hugues Imbeault-Tétreault    hugues.i-tetreault@groupeageco.ca |

External

External

Product Information

|                         |                                                                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Functional Unit:        | 1 unit to mount a cable or a tube at a point with a cushion sleeve with a clamping capacity between 12.7 mm (minimum) and 203 mm (maximum) for a service life of 20 years, including end-of-life disposition. |
| Mass:                   | 0.0175 kg                                                                                                                                                                                                     |
| Reference Service Life: | 20 Years                                                                                                                                                                                                      |
| Product Specificity:    |  Product Average                                                                                                           |
|                         |  Product Specific                                                                                                          |

Product Description

This Panduit cushion sleeve EPD includes the following cushion sleeve product. A cushion sleeve strip of 203 mm in length corresponds to the functional unit of this EPD and to the results presented.

**Part Number:** PCSLSH-B-CR  
**Part Description:** Cushion Sleeve

This Panduit cushion strip protects against short circuits, minimizing damage and disruption. Ideal for your harsh environments, ensuring safety and reliability with metal locking strap cleats.

Product Specifications

**Product SKU(s):**

**Product Classification Codes:**

The Panduit PCSLSH-B-CR is a cushion sleeve. The functional unit utilized for this study is to mount a cable or a tube at a point with a cushion sleeve with a clamping capacity between 12.7 mm (minimum) and 203 mm (maximum) for a service life of 20 years, including end-of-life disposition, in accordance with the PSR. A cushion sleeve strip of 203 mm in length corresponds to the functional unit of this EPD and to the results presented.

UNSPSC - 39121703

EC3 - NetworkInfrastructure

Table 1. Material Composition

| Material/Component Category | Origin | % Mass |
|-----------------------------|--------|--------|
| TPE Low Smoke Zero Halogen  | None   | 100    |

| Packaging Material | Origin | kg Mass  |
|--------------------|--------|----------|
| Cardboard          | None   | 2.53E-03 |
| Paper              | None   | 3.81E-04 |
| Plastic Film       | None   | 6.71E-05 |
| Nylon Strapping    | None   | 3.77E-05 |
| Styrofoam          | None   | 9.23E-06 |
| Wood               | None   | 3.56E-03 |

| Biogenic Carbon Content            | kg C per unit |
|------------------------------------|---------------|
| Biogenic carbon content in product | 0None         |

| Biogenic Carbon Content                           | kg C per unit |
|---------------------------------------------------|---------------|
| Biogenic carbon content in accompanying packaging | 0.00276       |

| Hazardous Materials                                                          |
|------------------------------------------------------------------------------|
| No regulated hazardous or dangerous substances are included in this product. |

EPD Data Specificity

|                            |                                                                                                                                 |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Primary Data Year:         | 2024 (with the exception of data from one supplier)                                                                             |
| Manufacturing Specificity: | <div><div>✗</div> Industry Average</div> <div><div>✓</div> Manufacturer Average</div> <div><div>✗</div> Facility Specific</div> |

**Averaging:**  
This study allocated energy and fuel resources by mass (kg) per product, as the processing phases for producing these products are consistent except that as product mass increases, the production inputs similarly increase. Multiple plant locations produce these products. They produce a variety of products with differing impacts, so allocation at the product level was conducted based on total mass of production.

Table 2. System Boundary

|              |    |                        |   |
|--------------|----|------------------------|---|
| Production   | A1 | Raw material supply    | ✓ |
|              | A2 | Transport              | ✓ |
|              | A3 | Manufacturing          | ✓ |
| Construction | A4 | Transport to site      | ✓ |
|              | A5 | Assembly / Install     | ✓ |
| Use          | B1 | Use                    | ✓ |
|              | B2 | Maintenance            | ✓ |
|              | B3 | Repair                 | ✓ |
|              | B4 | Replacement            | ✓ |
|              | B5 | Refurbishment          | ✓ |
|              | B6 | Operational Energy Use | ✓ |
|              | B7 | Operational Water Use  | ✓ |

|                                         |    |                                     |   |
|-----------------------------------------|----|-------------------------------------|---|
| End of Life                             | C1 | Deconstruction                      | ✓ |
|                                         | C2 | Transport                           | ✓ |
|                                         | C3 | Waste Processing                    | ✓ |
|                                         | C4 | Disposal                            | ✓ |
| Benefits & Loads Beyond System Boundary | D  | Recycling, Reuse Recovery Potential | ✓ |

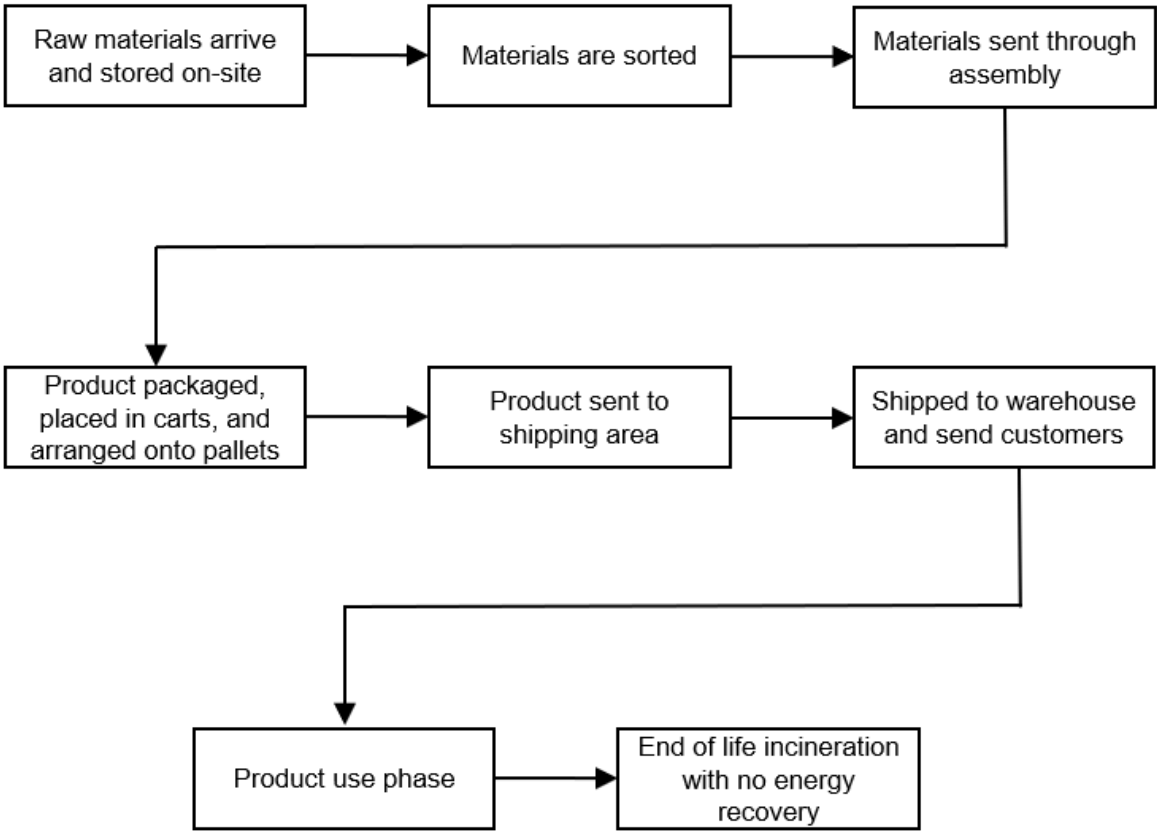
Note:  
ND = Module not declared

Plants

-  North America North America
-  Asia Asia
-  Europe Europe

Product Flow Diagram

Process Flow Diagram



Software And Database

|                                                                                                                                                                                                       |                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| LCA Software:                                                                                                                                                                                         | Sphera LCA for Experts (formerly GaBi) v. 10.9                                  |
| LCI Foreground Database(s):                                                                                                                                                                           | Sphera Managed LCA Content (formerly GaBi Professional Database) v.             |
| LCI Background Database(s):                                                                                                                                                                           | Sphera Managed LCA Content (formerly GaBi Professional Database) v.   US LCI v. |
| A foreground LCI database is the database used to model the primary, site-specific data collected for this EPD. A background LCI database is the database used to model generic or non-specific data. |                                                                                 |

## Data Quality

Primary data were collected for every process in the product system under the control of Panduit's suppliers. Secondary data from the Sphera Managed LCA Content, US LCI, CPA and EUROFER databases were utilized when necessary. These data were evaluated and have temporal, geographic, and technical coverage appropriate to the scope of the product category.

The data sources used are complete and representative of global systems in terms of the geographic and technological coverage and are a recent vintage. The data used for primary data are based on direct information sources of the manufacturers and suppliers. Secondary data sets were used for raw materials extraction and processing, end of life, transportation, and energy production flows. Wherever secondary data is used, the study adopts critically reviewed data for consistency, precision, and reproducibility to limit uncertainty.

## Life Cycle Module Description

For the manufacturing of cleats and straps products, raw materials are transported to the production facilities and stored on-site before entering the manufacturing process. Materials are sorted and assembled per product specifications. Once the final product is assembled and ready for packaging, it is packaged, placed into carts, and arranged onto pallets for shipping. The final pallets and packages are sent to the shipping area and are shipped to a warehouse for distribution. Once in use, cable cleats and straps products require no maintenance, repair, or refurbishment during the reference service life. As the life cycle of this product is only 20 years, no additional replacements are required, per the PSR. Finally, the products are assumed 100% to incineration with no energy recovery at the end of life.

## LCA Discussion

### Allocation Procedure

The LCI data was collected from the Panduit facilities and suppliers for the 2024 calendar year with the exception of data from one supplier. This study allocated energy and fuel resources by mass (kg) per product, as the processing phases for producing these products are consistent except that as product mass increases, the production inputs similarly increase. The Panduit facilities and suppliers produce a variety of products with differing impacts, so allocation at the product level was conducted based on total mass of production.. For secondary data, cut-off methodology was used.

### Cut-off Procedure

Processes whose total contribution to the final result, with respect to their mass and in relation to all considered impact categories, is less than 1% can be neglected.

The sum of the neglected processes may not exceed 5% by mass of the considered impact categories. For that a documented assumption is admissible. For Hazardous Substances the following requirements apply:

- The Life Cycle Inventory (LCI) of hazardous substances must be included, if the inventory is available.
- If the LCI for a hazardous substance is not available, the substance must appear as an input in the LCI of the product, if its mass represents more than 0.1% of the product composition.
- If the LCI of a hazardous substance is approximated by modeling another substance, documentation must be provided.

This EPD is in compliance with the cut-off criteria. Capital items for the production processes (machine, buildings, etc.) were not taken into consideration.

## Renewable Electricity

Energy Attribute Certificates (EACs) such as  
Renewable Energy Certificates (RECs) or Power  
Purchase Agreements (PPAs) are included in the  
baseline reported results: ✗ No

## Scenarios

### Transport to the building/construction site (A4)

[A4 Module](#)

|                  |                  |
|------------------|------------------|
| Truck Transport: | 1.75E+01 kgkm/pc |
| Ship Transport:  | 2.33E+02 kgkm/pc |

### Installation in to the building/construction site (A5)

[A5 Module](#)

|                                                 |                                                                                                                                                                                                                                                                         |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Installation Scrap Rate Assumed:                | 5 %                                                                                                                                                                                                                                                                     |
| Product Lost per Declared/Functional Unit:      | 8.76E-04 kg                                                                                                                                                                                                                                                             |
| Waste Materials at the Construction Site Before | 7.46E-03 kg                                                                                                                                                                                                                                                             |
| Waste Processing:                               |                                                                                                                                                                                                                                                                         |
| Mass of Packaging Waste Specified by Type:      | 2.53E-03 kg cardboard; 3.81E-04 kg paper; 6.71E-05 kg plastic film; 3.77E-05 kg nylon strapping;<br>9.23E-06 kg styrofoam; 3.56E-03 kg wood kg                                                                                                                          |
| Biogenic Carbon Contained in Packaging (kg C):  | 2.76E-03 kg                                                                                                                                                                                                                                                             |
| Assumptions for scenario development:           | The installation phase assumes a 5% scrap rate and 100 km of truck transportation for waste, in accordance with the PSR, and includes production, transportation and end of life scrap. All scrap is treated as 100% incineration with no energy recovery, per the PSR. |

### Use (B1)

[B1 Module](#)

#### Maintenance:

The study assumes the service life is 20 years, in accordance with the PSR. and there are no use (B1) phase assumptions for the product in this EPD.

### Maintenance (B2)

[B2 Module](#)

|                                               |                                                                              |
|-----------------------------------------------|------------------------------------------------------------------------------|
| Further assumptions for scenario development: | There are no maintenance (B2) phase assumptions for the product in this EPD. |
|-----------------------------------------------|------------------------------------------------------------------------------|

### Repair (B3)

[B3 Module](#)

|                                               |                                                                         |
|-----------------------------------------------|-------------------------------------------------------------------------|
| Further assumptions for scenario development: | There are no repair (B3) phase assumptions for the product in this EPD. |
|-----------------------------------------------|-------------------------------------------------------------------------|

Replacement (B4)

B4 Module

Further assumptions for scenario development: There are no replacement (B4) phase assumptions for the product in this EPD.

Refurbishment (B5)

B5 Module

Further assumptions for scenario development: There are no refurbishment (B5) phase assumptions for the product in this EPD.

Operational Energy Use (B6) & Operational Water Use (B7)

B6 & B7 Modules

Further assumptions for scenario development:  
The use phase assumes that there are no energy (B6) use and no operational water (B7) phase scenarios for the product in this EPD.

End of Life (C1 - C4)

C1 - C4 Modules

Collection Process

Collected with Mixed Construction Waste: 1.75E-02 kg

Recovery

Incineration: 1.75E-02 kg

Assumptions for scenario development:  
The end-of-life scenario was modeled based on an assumption of 100% incineration with no energy recovery and 100 km of truck transportation to final disposal.

Reuse, Recovery and / or Recycling Potentials & Relevant Scenario Information (D)

D Module

|                                                                                                     |                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Recycling Rate of Product:                                                                          | 0 %                                                                                                                                    |
| Recycled Content of Product:                                                                        | 0 %                                                                                                                                    |
| Net Energy Benefit from Energy Recovery from Waste Treatment Declared as Export Energy in C3:       | 0 MJ                                                                                                                                   |
| Net Energy Benefit from Thermal Energy Due to Treatment of Waste Declared as Exported Energy in C4: | 0 MJ                                                                                                                                   |
| Net Energy Benefit from Material Flow Declared in C3 for Energy Recovery:                           | 0 MJ                                                                                                                                   |
| Further assumptions for scenario development:                                                       | This study assumes the product is 100% sent to incineration with no energy recovery at the end-of-life. As a result, Module D is zero. |

## Results

**Table 3. Environmental Impact Assessment Results**

TRACI 2.2, EF3.1

per 1 unit of product to mount a cable or a tube at a point with a cushion sleeve with a clamping capacity between 12.7 mm (minimum) and 203 mm (maximum) for a service life of 20 years, including end-of-life disposition..

LCIA results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins or risks.

| Impact Category           | Unit              | Method    | A1 - A3  | A4       | A5       | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2       | C3 | C4       | D |
|---------------------------|-------------------|-----------|----------|----------|----------|----|----|----|----|----|----|----|----|----------|----|----------|---|
| GWP-total (excl biogenic) | kg CO2 eq         | TRACI 2.2 | 1.34e-1  | 6.11e-3  | 2.18e-2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1.83e-4  | 0  | 7.39e-3  | 0 |
| GWP-total (incl biogenic) | kg CO2 eq         | TRACI 2.2 | 1.23e-1  | 6.11e-3  | 3.20e-2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1.83e-4  | 0  | 7.39e-3  | 0 |
| ODP                       | kg CFC 11 eq      | TRACI 2.2 | 1.73e-10 | 1.61e-13 | 2.28e-11 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 3.78e-17 | 0  | 4.78e-15 | 0 |
| AP                        | kg SO2 eq         | TRACI 2.2 | 2.50e-4  | 1.01e-4  | 5.13e-5  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1.25e-6  | 0  | 8.26e-6  | 0 |
| EP-freshwater             | kg P eq           | TRACI 2.2 | 3.26e-7  | 2.33e-9  | 4.36e-8  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 2.33e-10 | 0  | 6.99e-10 | 0 |
| EP-marine                 | kg N eq           | TRACI 2.2 | 1.19e-4  | 8.26e-5  | 3.06e-5  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1.15e-6  | 0  | 6.39e-6  | 0 |
| POCP                      | kg O3 eq          | TRACI 2.2 | 4.32e-3  | 2.88e-3  | 1.08e-3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 2.80e-5  | 0  | 2.20e-4  | 0 |
| HTP-c                     | CTUh              | TRACI 2.2 | 8.58e-12 | 2.54e-14 | 1.17e-12 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 9.12e-16 | 0  | 1.12e-13 | 0 |
| HTP-nc                    | CTUh              | TRACI 2.2 | 6.83e-12 | 1.36e-13 | 9.26e-13 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1.27e-14 | 0  | 2.92e-15 | 0 |
| ETP-fw                    | CTUe              | TRACI 2.2 | 9.64e-4  | 5.55e-4  | 2.59e-4  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 5.51e-5  | 0  | 1.06e-5  | 0 |
| PM                        | kg PM2.5 eq       | TRACI 2.2 | 1.61e-5  | 2.00e-6  | 2.52e-6  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1.93e-8  | 0  | 2.94e-7  | 0 |
| GWP- total                | kg CO2 eq         | EF3.1     | 1.25e-1  | 6.18e-3  | 3.22e-2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1.88e-4  | 0  | 7.46e-3  | 0 |
| GWP- fossil               | kg CO2 eq         | EF3.1     | 1.35e-1  | 6.16e-3  | 2.21e-2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1.86e-4  | 0  | 7.46e-3  | 0 |
| GWP-biogenic              | kg CO2 eq         | EF3.1     | -1.01e-2 | 0        | 1.01e-2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0        | 0  | 0        | 0 |
| GWP-luluc                 | kg CO2 eq         | EF3.1     | 7.72e-5  | 1.97e-5  | 1.53e-5  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1.97e-6  | 0  | 8.72e-7  | 0 |
| ODP                       | kg CFC11 eq       | EF3.1     | 1.31e-10 | 1.11e-13 | 1.72e-11 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 3.18e-17 | 0  | 4.06e-15 | 0 |
| AP                        | mol H+ eq         | EF3.1     | 2.87e-4  | 1.11e-4  | 5.80e-5  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1.35e-6  | 0  | 9.12e-6  | 0 |
| PM                        | disease incidence | EF3.1     | 2.78e-9  | 3.69e-10 | 4.46e-10 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 5.69e-12 | 0  | 6.38e-11 | 0 |
| IRP                       | kBq U235 eq       | EF3.1     | 6.09e-3  | 6.66e-6  | 8.13e-4  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 6.66e-7  | 0  | 6.38e-5  | 0 |
| POCP                      | kg NMVOC eq       | EF3.1     | 2.28e-4  | 1.23e-4  | 5.17e-5  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1.28e-6  | 0  | 9.19e-6  | 0 |
| EP-fw                     | kg P eq           | EF3.1     | 7.10e-7  | 6.38e-9  | 9.52e-8  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 5.17e-10 | 0  | 1.55e-9  | 0 |

| Impact Category     | Unit                    | Method | A1 - A3  | A4       | A5       | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2       | C3 | C4       | D |
|---------------------|-------------------------|--------|----------|----------|----------|----|----|----|----|----|----|----|----|----------|----|----------|---|
| EP-marine           | kg N eq                 | EF3.1  | 7.29e-5  | 4.72e-5  | 1.81e-5  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 6.73e-7  | 0  | 3.55e-6  | 0 |
| EP-terrestrial      | mol N eq                | EF3.1  | 7.81e-4  | 5.16e-4  | 1.98e-4  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 7.33e-6  | 0  | 4.46e-5  | 0 |
| SQI                 | dimensionless           | EF3.1  | 1.98e+0  | 1.09e-2  | 2.64e-1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1.09e-3  | 0  | 2.40e-3  | 0 |
| WDP                 | m3 world eq deprived    | EF3.1  | 1.94e-2  | 8.79e-6  | 3.34e-3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 8.79e-7  | 0  | 2.74e-3  | 0 |
| ADP-fossil          | MJ, net calorific value | EF3.1  | 2.36e+0  | 7.93e-2  | 3.28e-1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 2.46e-3  | 0  | 8.99e-3  | 0 |
| ADP-minerals&metals | kg Sb eq                | EF3.1  | 1.51e-7  | 1.28e-10 | 1.99e-8  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1.28e-11 | 0  | 4.61e-11 | 0 |
| ETP-fwio            | CTUe                    | EF3.1  | 9.05e-1  | 1.11e-1  | 1.39e-1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 3.20e-3  | 0  | 4.08e-3  | 0 |
| HTP-cio             | CTUh                    | EF3.1  | 2.45e-11 | 1.58e-12 | 3.84e-12 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 4.32e-14 | 0  | 3.65e-13 | 0 |
| HTP-ncio            | CTUh                    | EF3.1  | 9.47e-10 | 1.02e-10 | 1.79e-10 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 2.41e-12 | 0  | 4.99e-11 | 0 |

**Note:**

Not all abbreviated indicators listed below may be present in the results above. The inclusion of indicators varies based on PCR requirements.

**Abbreviations:**

GWP = Global Warming Potential, 100 years (may also be denoted as GWP-total, GWP-fossil (fossil fuels), GWP-biogenic (biogenic sources), GWP-luluc (land use and land use change)), ODP = Ozone Depletion Potential, AP = Acidification Potential, EP = Eutrophication Potential, SFP = Smog Formation Potential, POCP = Photochemical oxidant creation potential, ADP-Fossil = Abiotic depletion potential for fossil resources, ADP-Minerals&Metals = Abiotic depletion potential for non-fossil resources, WDP = Water deprivation potential, PM = Particulate Matter Emissions, IRP = Ionizing radiation, human health, ETP-fw = Eco-toxicity (freshwater), HTP-c = Human toxicity (cancer), HTP-nc = Human toxicity (non-cancer), SQP = Soil quality index.

Comparisons cannot be made between product-specific or industry average EPDs at the design stage of a project, before a building has been specified. Comparisons may be made between product-specific or industry average EPDs at the time of product purchase when product performance and specifications have been established and serve as a functional unit for comparison. Environmental impact results shall be converted to a functional unit basis before any comparison is attempted. Any comparison of EPDs shall be subject to the requirements of ISO 21930 or EN 15804. EPDs are not comparative assertions and are either not comparable or have limited comparability when they have different system boundaries. EPDs are not comparative assertions and are either not comparable or have limited comparability when they have different system boundaries, are based on different product category rules or are missing relevant environmental impacts. Such comparison can be inaccurate, and could lead to erroneous selection of materials or products which are higher-impact, at least in some impact categories.

**Table 4. Resource Use Indicator**

per 1 unit of product to mount a cable or a tube at a point with a cushion sleeve with a clamping capacity between 12.7 mm (minimum) and 203 mm (maximum) for a service life of 20 years, including end-of-life disposition..

| Indicator | Unit | A1 - A3 | A4      | A5      | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2      | C3 | C4      | D |
|-----------|------|---------|---------|---------|----|----|----|----|----|----|----|----|---------|----|---------|---|
| PERE      | MJ   | 3.14e-1 | 1.85e-3 | 4.21e-2 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1.85e-4 | 0  | 2.24e-3 | 0 |
| PERM      | MJ   | 1.14e-1 | 0       | 1.14e-1 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0       | 0  | 0       | 0 |
| PERT      | MJ   | 4.28e-1 | 1.85e-3 | 1.57e-1 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1.85e-4 | 0  | 2.24e-3 | 0 |
| PENRE     | MJ   | 2.36e+0 | 7.93e-2 | 3.28e-1 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 2.46e-3 | 0  | 8.99e-3 | 0 |
| PENRM     | MJ   | 4.43e-3 | 0       | 4.43e-3 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0       | 0  | 0       | 0 |
| PENRT     | MJ   | 2.36e+0 | 7.93e-2 | 3.32e-1 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 2.46e-3 | 0  | 8.99e-3 | 0 |
| SM        | kg   | 0       | 0       | 0       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0       | 0  | 0       | 0 |
| RSF       | MJ   | 0       | 0       | 0       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0       | 0  | 0       | 0 |
| NRSF      | MJ   | 0       | 0       | 0       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0       | 0  | 0       | 0 |
| FW        | m3   | 6.08e-4 | 9.12e-7 | 9.86e-5 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 9.12e-8 | 0  | 6.48e-5 | 0 |
| RE        | MJ   | 0       | 0       | 0       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0       | 0  | 0       | 0 |

Note:

Not all abbreviated indicators listed below may be present in the results above. The inclusion of indicators varies based on PCR requirements.

Abbreviations:

RPRE or PERE = Renewable primary resources used as energy carrier (fuel), RPRM or PERM = Renewable primary resources with energy content used as material, RPRT or PERT = Total use of renewable primary resources with energy content, NRPRE or PENRE = Non-renewable primary resources used as an energy carrier (fuel), NRPRM or PENRM = Non-renewable primary resources with energy content used as material, NRPRRT or PENRT = Total non-renewable primary resources with energy content, SM = Secondary materials, RSF = Renewable secondary fuels, NRSF = Non-renewable secondary fuels, RE = Recovered energy, ADPF = Abiotic depletion potential, FW = Use of net freshwater resources, VOCs = Volatile Organic Compounds.

**Table 5. Waste and Output Flow Indicators**

per 1 unit of product to mount a cable or a tube at a point with a cushion sleeve with a clamping capacity between 12.7 mm (minimum) and 203 mm (maximum) for a service life of 20 years, including end-of-life disposition..

| Indicator | Unit | A1 - A3 | A4       | A5      | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2       | C3 | C4       | D |
|-----------|------|---------|----------|---------|----|----|----|----|----|----|----|----|----------|----|----------|---|
| HWD       | kg   | 3.32e-7 | 9.86e-13 | 4.38e-8 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 9.86e-14 | 0  | 4.49e-12 | 0 |
| NHWD      | kg   | 2.81e-3 | 3.43e-6  | 6.58e-3 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 3.43e-7  | 0  | 1.75e-2  | 0 |
| RWD       | kg   | 6.93e-5 | 4.64e-8  | 9.26e-6 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 4.64e-9  | 0  | 4.15e-7  | 0 |
| HLRW      | kg   | 0       | 0        | 0       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0        | 0  | 0        | 0 |
| ILLRW     | kg   | 0       | 0        | 0       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0        | 0  | 0        | 0 |
| CRU       | kg   | 0       | 0        | 0       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0        | 0  | 0        | 0 |
| MFR       | kg   | 0       | 0        | 0       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0        | 0  | 0        | 0 |
| MER       | kg   | 0       | 0        | 0       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0        | 0  | 0        | 0 |
| EEE       | MJ   | 0       | 0        | 0       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0        | 0  | 0        | 0 |

Note:

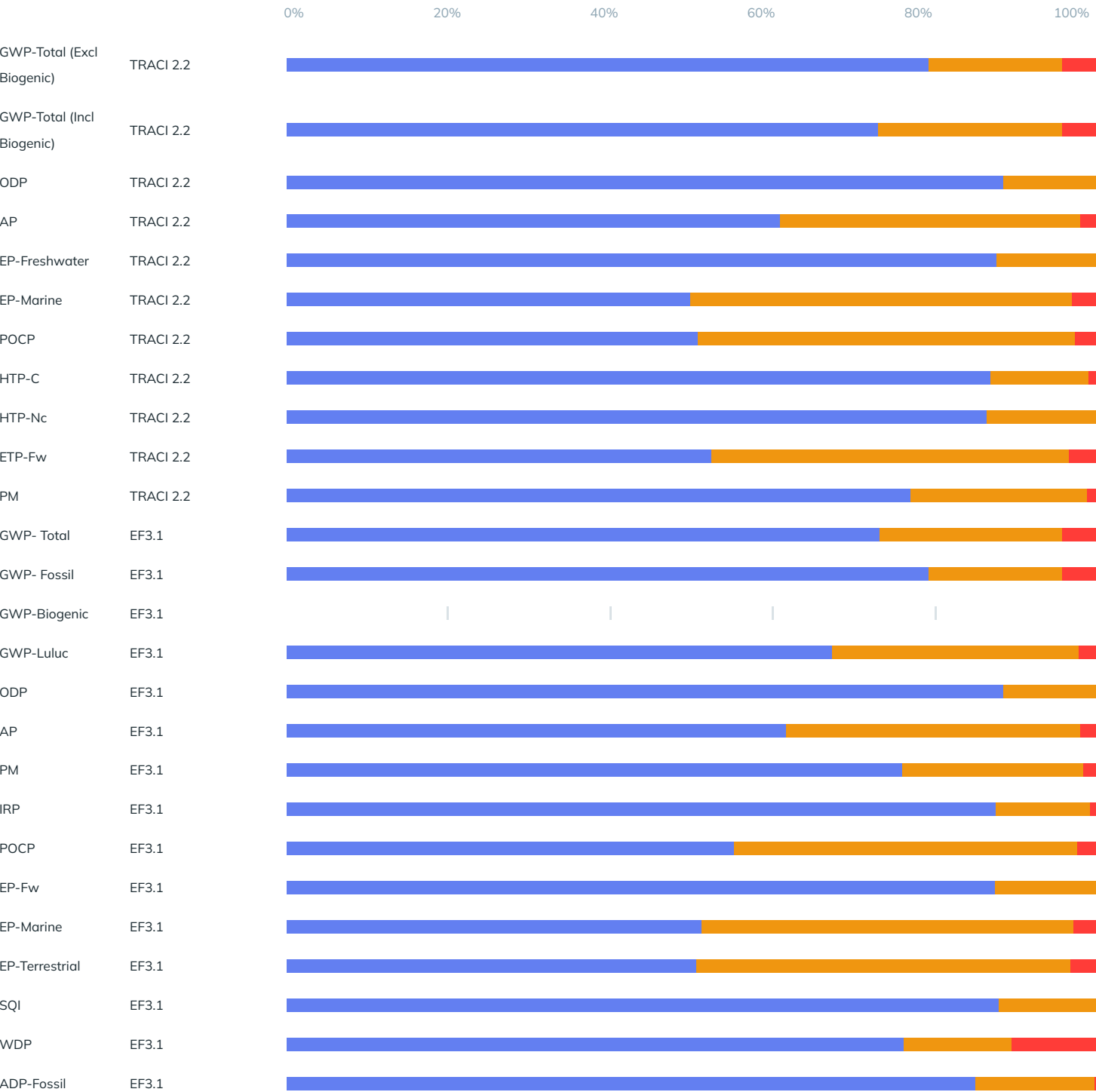
Not all abbreviated indicators listed below may be present in the results above. The inclusion of indicators varies based on PCR requirements.

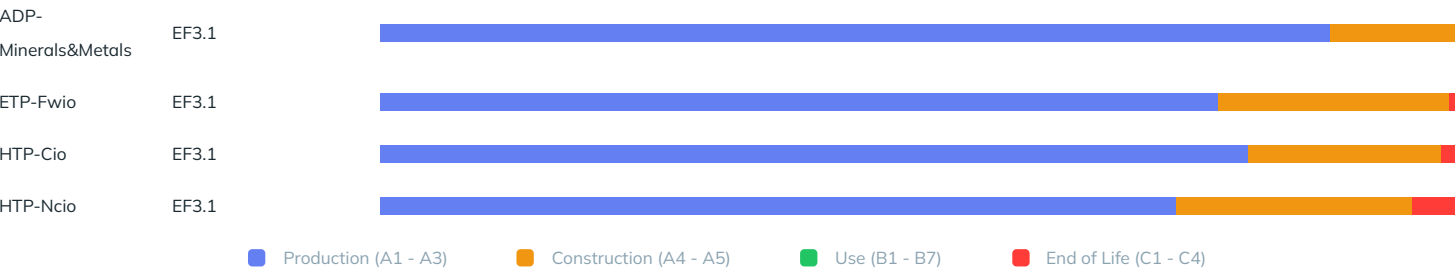
Abbreviations:

HWD = Hazardous waste disposed, NHWD = Non-hazardous waste disposed, RWD = Radioactive waste disposed, HLRW = High-level radioactive waste, ILLRW = Intermediate- and low-level radioactive waste, CRU = Components for re-use, MFR or MR = Materials for recycling, MER = Materials for energy recovery, MNER = Materials for incineration, no energy recovery, EE or EEE = Recovered energy exported from the product system, EET = Exported thermal energy.

Interpretation

When evaluating the impact categories, the production (A1-A3) stage has the greatest contribution to environmental impacts across most impact categories, emphasizing that material efficiency and energy use reduction strategies are where primary improvement strategies can be applied.





Additional Environmental Information

At Panduit, we understand that what we deliver matters: high-quality infrastructure and connectivity solutions. But it's how we deliver them that defines who we are. We remain deeply aware of our environmental responsibilities, the importance of an inclusive workplace, and the value of transparent, ethical governance. These principles guide every decision we make and shape how we serve our customers, our people, and our partners.

As we've grown, so has our commitment—to not only deliver dependable, scalable network connectivity and powerful infrastructure, but also to embed sustainability into everything we do. By integrating environmental, social, and governance principles into our operations, we're creating smarter solutions that reduce packaging waste, move products more efficiently, and support a more responsible customer journey. Today's successes are the springboard for what comes next - anticipating tomorrow's challenges so we can build a future that is more connected, resilient, and sustainable."

- Fire: This product has no negative extraordinary environmental effects resulting from exposure to fire.
- Water: This product has no negative extraordinary environmental effects resulting from exposure to water.
- Mechanical Destruction: This product has no negative extraordinary environmental effects resulting from exposure to mechanical destruction.

References

Panduit Cleats and Straps Life Cycle Assessment. (May 2026). Sustainable Solutions Corporation.

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ISO 14020:2022, Environmental labels and declarations — General principles

ISO 14025:2006, Environmental labels and declarations — Type III environmental declarations — Principles and procedures.

ISO 14040:2006, Environmental management — Life cycle assessment — Principles and framework.

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Smart EPD General Program Instructions v.2.0, March 2025