



SmartEPD-2025-079-0574-01

# Rubber Wall Base & Accessories

Date of Issue

**Aug 26, 2025**

Expiration date

**Aug 26, 2030**

Last updated

**Aug 26, 2025**

General Information

Roppe Corporation, USA

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|                             |                                                               |
|-----------------------------|---------------------------------------------------------------|
| Product Name:               | Rubber Wall Base & Accessories                                |
| Functional Unit:            | 1 m                                                           |
| Declaration Number:         | SmartEPD-2025-079-0574-01                                     |
| Date of Issue:              | August 26, 2025                                               |
| Expiration:                 | August 26, 2030                                               |
| Last updated:               | August 26, 2025                                               |
| EPD Scope:                  | Cradle to gate with other options<br>A1 - A3, A4, A5, C1 - C4 |
| Market(s) of Applicability: | North America                                                 |

General Organization Information

Roppe Holding Company (RHC), the EPD Owner, is a family-owned business headquartered in Fostoria, Ohio, USA, where the declared product is manufactured. Established in 1955, Roppe is an integral part of the community in which it operates and has a longstanding commitment to delivering high-quality resilient flooring products to a diverse range of customers.

As a family-owned company, RHC emphasizes responsible manufacturing practices, efficient resource use, and environmentally conscious product design. The organization actively works to reduce waste, optimize material use, and lower emissions across its operations in support of sustainable building practices and customer expectations for environmentally preferable products.

Further information can be found at: <https://roppe.com/>

Limitations, Liability, and Ownership

Environmental Product Declarations from different programs (following ISO 14025) may not be comparable. Comparison of the environmental performance of products using EPD information shall be based on the product’s use and impacts at the building level. EPDs that do not cover all life cycle stages (e.g., cradle-to-grave) shall not be used to make comparisons without additional context and assumptions.

EPD comparability is only possible when all relevant life cycle stages are included and equivalent data quality, system boundaries, and assessment methods are used. Variations in results may occur due to differences in background LCI datasets, regional factors, and LCA modeling approaches or software tools.

The EPD Owner has sole ownership, liability, and responsibility for the content of this EPD.

Reference Standards

Standard(s): ISO 14025 and ISO 21930:2017

|                                |                                                                                                                                                                          |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Core PCR:                      | Smart EPD® Part A Product Category Rules for Building and Construction Products and Services, 1000, v1.2<br>Date of issue: March 14, 2025<br>Valid until: March 14, 2030 |
| 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:   |  Sevda Alanya Rosenbaum    John Beath Environmental  <br> sevda.rosenbaum@beath.us                                                                                                                                                                                                                                                                                                                |
| EPD Program Operator: |  Smart EPD    info@smartepd.com    www.smartepd.com  <br> 585 Grove St., Ste. 145 PMB 966, Herndon, VA 20170, USA                                                                                                                                                                                              |
| Verification:         | Independent critical review of the LCA and data, according to ISO 14044 and ISO 14071: <span>External</span><br> Mari Kirss    mari.kirss@meetripuu.ee<br>Independent external verification of EPD, according to ISO 14025 and reference PCR(s): <span>External</span><br> Mari Kirss    mari.kirss@meetripuu.ee |

## Product Information

|                      |                                                                                                                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Functional Unit:     | 1 m                                                                                                                                                                                                         |
| Mass:                | 0.503 kg                                                                                                                                                                                                    |
| Product Specificity: |  Product Average<br> Product Specific |

## Product Description

This Environmental Product Declaration (EPD) covers *Pinnacle Rubber Base*, *Pinnacle Plus Wall Base*, and a range of Rubber Accessories manufactured by Roppe in Fostoria, Ohio. These resilient rubber products are used at the intersection of wall and floor surfaces in commercial and residential buildings, where they provide protection against impact, abrasion, and routine cleaning activities.

The *Pinnacle* and *Pinnacle Plus* wall base lines are offered in various profiles, heights, and thicknesses, including cove and straight (no-toe) designs, with heights ranging from 2.5 inches (6.4 cm) to 6 inches (15.2 cm). Products are supplied in tiles, planks, and rolls, depending on the specific profile. Rubber Accessories included in this EPD comprise trims, moldings, transitions, reducers, edge guards, thresholds, adapters, corner guards, cove caps, welding beads, and stair nosings.

All products covered in this EPD are manufactured from synthetic rubber through a vulcanization process and do not contain PVC, phthalates, or Red List chemicals. They meet stringent indoor air quality criteria, including FloorScore certification and compliance with the CDPH Standard Method v1.2 (California Section 01350). These products also contribute to LEED v4/4.1 and CHPS requirements and qualify under American-made product provisions.

This EPD includes a table of nominal dimensions and corresponding weights per meter for each profile covered, along with multiplication factors to calculate life cycle impacts for individual product configurations. While LCA results are based on a declared unit of 1 meter of average product, profile-specific results can be derived using these published multipliers.

All products meet or exceed applicable performance standards, including ASTM F1861 for resilient wall base, ASTM E648 Class I for critical radiant flux, ASTM E662 for smoke density, and ASTM E84 Class B for flammability.

Further information can be found at: <https://roppe.com/>

Product Specifications

Product Classification Codes: EC3 - Finishes -> WallFinishes  
UNSPSC - 30161705

Material Composition

| Material/Component Category | Origin        | % Mass |
|-----------------------------|---------------|--------|
| Rubber                      | United States | 13-17  |
| Filler                      | United States | 60-70  |
| Additive                    | United States | 15-19  |
| Pigment                     | United States | 1-5    |

| Packaging Material   | Origin        | kg Mass |
|----------------------|---------------|---------|
| Corrugated cardboard | United States | 0.030   |
| Polyethylene wrap    | United States | 0.001   |
| Pallet (wood)        | United States | 0.023   |

| Biogenic Carbon Content                           | kg C per m |
|---------------------------------------------------|------------|
| Biogenic carbon content in product                | None       |
| Biogenic carbon content in accompanying packaging | 0.098      |

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

EPD Data Specificity

Primary Data Year: 2023

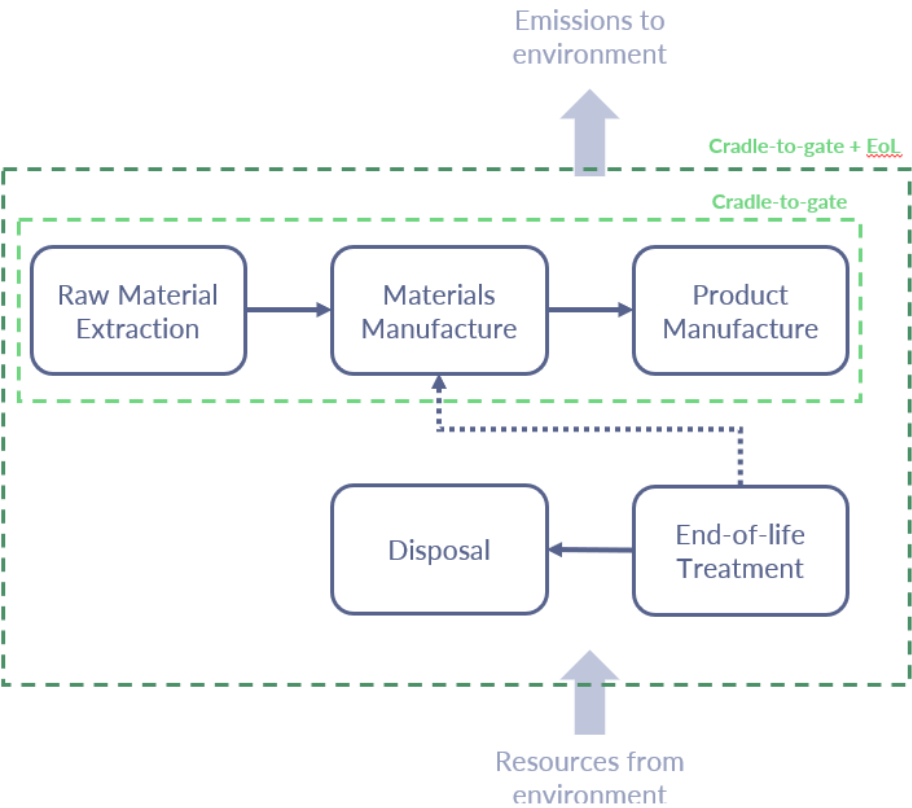
Manufacturing Specificity: ☒ Industry Average  
☒ Manufacturer Average  
☒ Facility Specific

Averaging:

EPD averaging was not conducted. This EPD represents a specific product manufactured at a single production facility.

## System Boundary

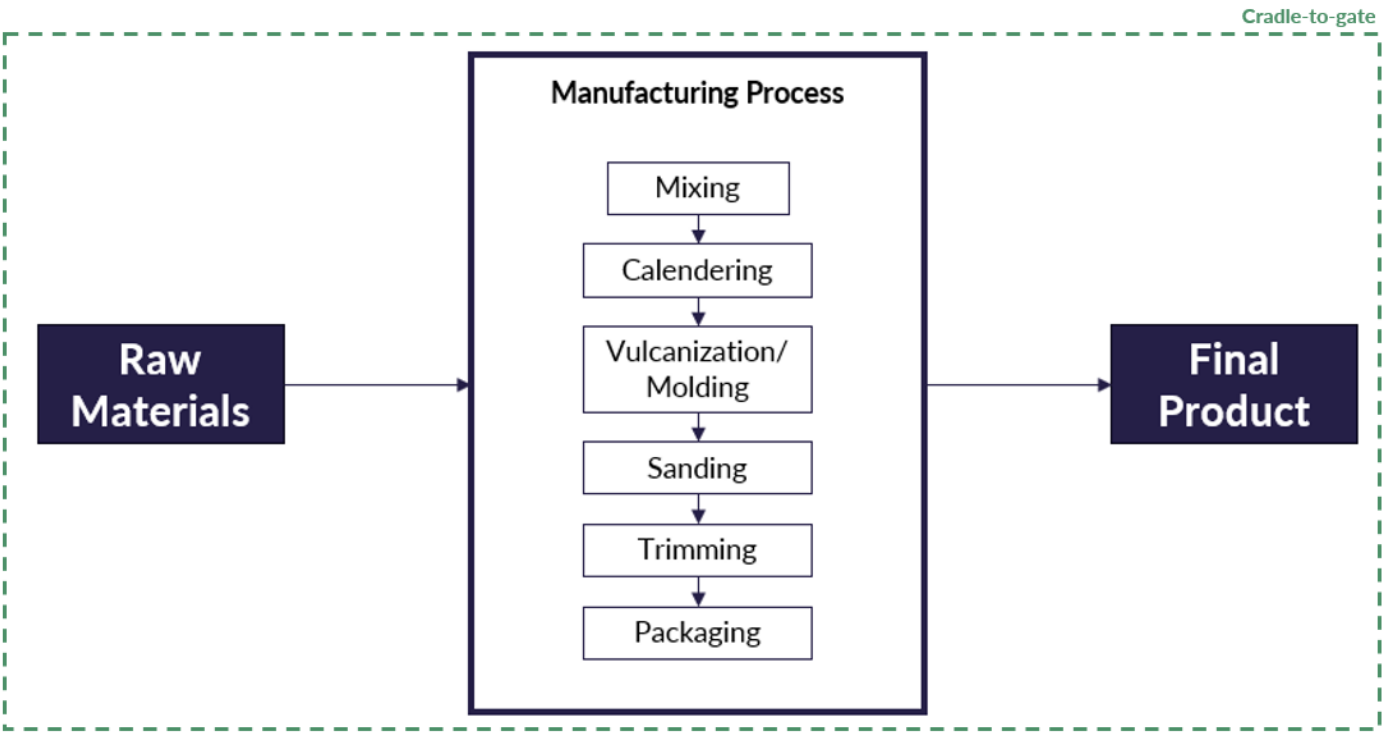
|                                         |    |                                     |    |
|-----------------------------------------|----|-------------------------------------|----|
| Production                              | A1 | Raw material supply                 | ✓  |
|                                         | A2 | Transport                           | ✓  |
|                                         | A3 | Manufacturing                       | ✓  |
| Construction                            | A4 | Transport to site                   | ✓  |
|                                         | A5 | Assembly / Install                  | ✓  |
| Use                                     | B1 | Use                                 | ND |
|                                         | B2 | Maintenance                         | ND |
|                                         | B3 | Repair                              | ND |
|                                         | B4 | Replacement                         | ND |
|                                         | B5 | Refurbishment                       | ND |
|                                         | B6 | Operational Energy Use              | ND |
|                                         | B7 | Operational Water Use               | ND |
| End of Life                             | C1 | Deconstruction                      | ✓  |
|                                         | C2 | Transport                           | ✓  |
|                                         | C3 | Waste Processing                    | ✓  |
|                                         | C4 | Disposal                            | ✓  |
| Benefits & Loads Beyond System Boundary | D  | Recycling, Reuse Recovery Potential | ND |



Plants

 Roppe Plant  
1602 North Union Street, Fostoria, OH, USA

Product Flow Diagram



Software and Database

|                             |                                                                                                |
|-----------------------------|------------------------------------------------------------------------------------------------|
| LCA Software:               | openLCA v. 2.4                                                                                 |
| LCI Foreground Database(s): | Ecoinvent v. 3.10   Global, Rest of World (RoW), and United States   Cut-off by classification |
| LCI Background Database(s): | Ecoinvent v. 3.10   Global, Rest of World (RoW), and United States   Cut-off by classification |

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 from RHC's manufacturing facility for the 2023 calendar year and represent actual production processes for the declared product. Background data were sourced from the ecoinvent v3.10 database using the cut-off system model. All data meet the data quality requirements of the SmartEPD PCR Part A: Product Category Rule for Building and Construction Products and Services v1.2. and Smart EPD General Program Instructions v2.0. No significant data gaps or representativeness issues were identified; therefore, no data quality disclaimer is required for this EPD.

## Data Sources

| Material/Process Category | Module | Material/Process Name              | Inventory Dataset Name                               | Dataset Geographic Region | Reporting Period/Year Dataset Represents | Reference      | Amount (if relevant) | Unit |
|---------------------------|--------|------------------------------------|------------------------------------------------------|---------------------------|------------------------------------------|----------------|----------------------|------|
| Raw Materials             | A1     | Ethylene propylene diene elastomer | synthetic rubber production                          | RoW                       | 2023                                     | ecoinvent 3.10 | ND                   | ND   |
| Raw Materials             | A1     | Kaolin                             | kaolin production                                    | RoW                       | 2023                                     | ecoinvent 3.10 | ND                   | ND   |
| Raw Materials             | A1     | Napthenic oil                      | lubricating oil production                           | RoW                       | 2023                                     | ecoinvent 3.10 | ND                   | ND   |
| Raw Materials             | A1     | SBR                                | acrylonitrile-butadiene-styrene copolymer production | RoW                       | 2023                                     | ecoinvent 3.10 | ND                   | ND   |
| Raw Materials             | A1     | Titanium dioxide                   | titanium dioxide production, chloride process        | RoW                       | 2023                                     | ecoinvent 3.10 | ND                   | ND   |
| Energy                    | A3     | Electricity                        | market for electricity, medium voltage               | US-RFC, modified          | 2023                                     | ecoinvent 3.10 | ND                   | ND   |
| Energy                    | A3     | Natural gas                        | market for heat, central or small-scale, natural gas | GLO                       | 2023                                     | ecoinvent 3.10 | ND                   | ND   |
| Waste Management          | A3     | Landfill                           | treatment of inert waste, sanitary landfill          | RoW                       | 2023                                     | ecoinvent 3.10 | ND                   | ND   |

## Life Cycle Module Descriptions

Modules A1A3 (Raw Material Supply, Transport, and Manufacturing):

These modules include the extraction and processing of raw materials used in the product, including synthetic rubber, plasticizers, fillers, and other additives. Transport of raw materials to the manufacturing facility is included, along with manufacturing processes such as mixing, molding, and curing. Energy and water use, as well as packaging materials, are included. Manufacturing occurs in Fostoria, Ohio, and data are based on annual facility-level consumption values.

Modules A4 (Transport to Site and Installation): This module includes shipping of the product from manufacturing site to project site.

Module A5 (Installation): This module includes product installation. Impacts from the production, transport and disposal of waste material associated with installation are included in this phase in addition to impacts from packaging disposal.

Modules C1C4 (End-of-Life):

- C1 (Deconstruction): Deconstruction is assumed to be manual with negligible environmental impact.
- C2 (Transport): Product is transported 32 km by truck to end-of-life treatment.
- C3 (Waste Processing): No additional waste processing is required prior to final disposal.
- C4 (Disposal): It was assumed that all products are landfilled at the end of their life. Impacts from disposal are modeled accordingly.

## LCA Discussion

### Allocation Procedure

#### Co-product Allocation

No co-product allocation was necessary in the system.

#### Allocation of Background Data

Background data sourced from the ecoinvent v3.10 database are modeled using the cut-off, at classification system model. Under this method, recycled content carries no upstream environmental burdens, and the burdens of waste treatment are assigned to the original product system.

#### End-of-Life Allocation

At end of life, the product is treated using the same cut-off approach. Any material recovered for recycling is considered to exit the system boundary without further allocation of burdens or credits.

Cut-off Procedure

No cut-off criteria were defined within the system boundary. All available energy and material flow data were included in the model. Proxy data were used when necessary to ensure comprehensive representation of life cycle impacts.

Renewable Electricity

Energy Attribute Certificates (EACs) such as Renewable Energy Certificates (RECs) or Power Purchase Agreements (PPAs) are included in the baseline reported results:

X No

Scenarios

Transport to the building/construction site (A4)

A4 Module

|                                        |                                                                                                                                             |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Fuel Type:                             | Diesel                                                                                                                                      |
| Vehicle Type:                          | Diesel Truck                                                                                                                                |
| Transport Distance:                    | 755 km                                                                                                                                      |
| Packaging Mass:                        | 0.054 kg                                                                                                                                    |
| Gross density of products transported: | 1670 kg/m3                                                                                                                                  |
| Weight of products transported:        | 0.503 kg                                                                                                                                    |
| Capacity utilization volume factor:    | <1                                                                                                                                          |
| Assumptions for scenario development:  | Transport to the construction site is modeled as 755 km via heavy-duty truck, using diesel fuel. Gross density is estimated at 1,670 kg/m³. |

Installation in to the building/construction site (A5)

A5 Module

|                                                                   |                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Installation Scrap Rate Assumed:                                  | 4.5 %                                                                                                                                                                                                                                                     |
| Ancillary Materials:                                              | 0.05 kg                                                                                                                                                                                                                                                   |
| Product Lost per Declared/Functional Unit:                        | 0.024 kg                                                                                                                                                                                                                                                  |
| Waste Materials at the Construction Site Before Waste Processing: | 0.078 kg                                                                                                                                                                                                                                                  |
| Mass of Packaging Waste Specified by Type:                        | 0.030 kg corrugated cardboard, 0.001 kg shrink wrap, 0.023 kg wood pallet kg                                                                                                                                                                              |
| Biogenic Carbon Contained in Packaging:                           | 0.056 kg                                                                                                                                                                                                                                                  |
| Assumptions for scenario development:                             | Installation is performed manually without operational energy or water use. Adhesive is applied at a rate of 0.05 kg per m. Installation loss is assumed to be 4.5%. No VOC emissions or direct environmental emissions are reported during installation. |

## End of Life (C1 - C4)

C1 - C4 Modules

### Collection Process

Collected Separately: 0.503 kg

### Recovery

Landfill: 0.503 kg

### Disposal

Product or Material for Final Disposal: 0.503 kg

### Assumptions for scenario development:

At end of life, 100% of the product mass is assumed to be removed manually and sent to a municipal landfill. No reuse, recycling, or energy recovery is modeled. No direct emissions to air, soil, or water are associated with the disposal process. This scenario reflects a conservative baseline consistent with the SmartEPD PCR Part A and industry practice.

## Results

### Environmental Impact Assessment Results

IPCC AR6 GWP 100, TRACI 2.2

per 1 m of product .

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

| Impact Category | Method           | Unit         | A1A2A3  | A4      | A5      | C1 | C2       | C3 | C4       |
|-----------------|------------------|--------------|---------|---------|---------|----|----------|----|----------|
| GWP-total       | IPCC AR6 GWP 100 | kg CO2 eq    | 2.04e+0 | 1.03e-1 | 2.21e-1 | 0  | 2.32e-2  | 0  | 2.74e-1  |
| GWP-fossil      | IPCC AR6 GWP 100 | kg CO2 eq    | 1.96e+0 | 1.03e-1 | 1.98e-1 | 0  | 2.32e-2  | 0  | 2.55e-2  |
| GWP-biogenic    | IPCC AR6 GWP 100 | kg CO2 eq    | 6.99e-2 | 1.98e-5 | 2.24e-2 | 0  | 1.60e-6  | 0  | 2.49e-1  |
| GWP-luluc       | IPCC AR6 GWP 100 | kg CO2 eq    | 6.98e-3 | 4.88e-5 | 5.81e-4 | 0  | 2.29e-6  | 0  | 7.17e-6  |
| ODP             | TRACI 2.2        | kg CFC 11 eq | 3.08e-8 | 1.39e-9 | 5.28e-9 | 0  | 3.76e-10 | 0  | 1.81e-10 |
| AP              | TRACI 2.2        | kg SO2 eq    | 5.59e-3 | 6.92e-4 | 7.38e-4 | 0  | 1.12e-4  | 0  | 8.39e-5  |
| EP              | TRACI 2.2        | kg N eq      | 3.41e-3 | 8.28e-4 | 4.50e-4 | 0  | 1.38e-4  | 0  | 4.04e-4  |
| POCP            | TRACI 2.2        | kg O3 eq     | 8.00e-2 | 2.03e-2 | 1.01e-2 | 0  | 3.38e-3  | 0  | 1.36e-3  |

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.

## Resource Use Indicators

per 1 m of product .

| Indicator  | Unit | A1A2A3  | A4      | A5      | C1 | C2      | C3 | C4      |
|------------|------|---------|---------|---------|----|---------|----|---------|
| RPRE       | MJ   | 1.99e+0 | 2.83e-2 | 1.84e-1 | 0  | 1.30e-3 | 0  | 5.02e-3 |
| RPRM       | MJ   | 0       | 0       | 0       | 0  | 0       | 0  | 0       |
| RPRT       | MJ   | 1.99e+0 | 2.83e-2 | 1.84e-1 | 0  | 1.30e-3 | 0  | 5.02e-3 |
| NRPRE      | MJ   | 3.60e+1 | 1.36e+0 | 3.42e+0 | 0  | 2.98e-1 | 0  | 1.60e-1 |
| NRPRM      | MJ   | 1.25e-1 | 0       | 5.63e-3 | 0  | 0       | 0  | 0       |
| NRPRT      | MJ   | 3.61e+1 | 1.36e+0 | 3.43e+0 | 0  | 2.98e-1 | 0  | 1.60e-1 |
| ADP-fossil | MJ   | 3.32e+1 | 1.33e+0 | 3.19e+0 | 0  | 2.97e-1 | 0  | 1.54e-1 |
| SM         | kg   | 0       | 0       | 0       | 0  | 0       | 0  | 0       |
| RSF        | MJ   | 0       | 0       | 0       | 0  | 0       | 0  | 0       |
| NRSF       | MJ   | 0       | 0       | 0       | 0  | 0       | 0  | 0       |
| FW         | m3   | 4.51e-3 | 1.19e-4 | 6.18e-4 | 0  | 6.19e-6 | 0  | 3.01e-5 |
| RE         | MJ   | 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, NRPRT 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.

## Waste and Output Flow Indicators

per 1 m of product .

| Indicator | Unit | A1A2A3  | A4      | A5      | C1 | C2      | C3 | C4      |
|-----------|------|---------|---------|---------|----|---------|----|---------|
| HWD       | kg   | 1.73e-4 | 9.05e-6 | 4.32e-5 | 0  | 2.09e-6 | 0  | 1.01e-6 |
| NHWD      | kg   | 2.99e-1 | 4.55e-2 | 6.19e-2 | 0  | 1.42e-3 | 0  | 5.05e-1 |
| HLRW      | kg   | 0       | 0       | 0       | 0  | 0       | 0  | 0       |
| ILLRW     | kg   | 0       | 0       | 0       | 0  | 0       | 0  | 0       |
| CRU       | kg   | 0       | 0       | 0       | 0  | 0       | 0  | 0       |
| MFR       | kg   | 1.14e-1 | 0       | 3.45e-2 | 0  | 0       | 0  | 0       |
| MER       | kg   | 0       | 0       | 0       | 0  | 0       | 0  | 0       |
| MNER      | kg   | ND      | ND      | ND      | ND | ND      | ND | ND      |
| EEE       | MJ   | 0       | 0       | 0       | 0  | 0       | 0  | 0       |
| EET       | MJ   | ND      | ND      | ND      | ND | ND      | ND | ND      |

**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.

## Carbon Emissions and Removals per 1 m of product .

| Indicator | Unit   | A1A2A3   | A4 | A5      | C1 | C2 | C3 | C4 |
|-----------|--------|----------|----|---------|----|----|----|----|
| BCRK      | kg CO2 | -5.56e-2 | 0  | 0       | 0  | 0  | 0  | 0  |
| BCEK      | kg CO2 | 0        | 0  | 5.56e-2 | 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:

BCRP = Biogenic Carbon Removal from Product, BCEP = Biogenic Carbon Emission from Product, BCRK = Biogenic Carbon Removal from Packaging, BCEK = Biogenic Carbon Emission from Packaging, BCEW = Biogenic Carbon Emission from Combustion of Waste from Renewable Sources Used in Production Processes, CCE = Calcination Carbon Emissions, CCR = Carbonation Carbon Removals, CWNR = Carbon Emissions from Combustion of Waste from Non-Renewable Sources used in Production Processes, GWP-luc = Carbon Emissions from Land-use Change.

## Impact Scaling Factors

| Product Identifier      | Design                         | Multiplier | Weight (kg/m) |
|-------------------------|--------------------------------|------------|---------------|
| Pinnacle Rubber Base    | 2.5" cove                      | 0.6657     | 0.3348        |
| Pinnacle Rubber Base    | 2.5" no toe                    | 0.6164     | 0.3100        |
| Pinnacle Rubber Base    | 3.0" cove                      | 0.7396     | 0.3720        |
| Pinnacle Rubber Base    | 3.0" no toe                    | 0.6903     | 0.3472        |
| Pinnacle Rubber Base    | 3.5" cove                      | 0.8383     | 0.4216        |
| Pinnacle Rubber Base    | 3.5" no toe                    | 0.7643     | 0.3844        |
| Pinnacle Rubber Base    | 4.0" cove                      | 1.0355     | 0.5209        |
| Pinnacle Rubber Base    | 4.0" no toe                    | 0.8876     | 0.4464        |
| Pinnacle Rubber Base    | 4.0" butt toe                  | 1.0360     | 0.5211        |
| Pinnacle Rubber Base    | 4.0" long toe                  | 1.1100     | 0.5583        |
| Pinnacle Rubber Base    | 4.0" sanitary toe              | 1.3820     | 0.6951        |
| Pinnacle Rubber Base    | 4.5" cove                      | 1.1095     | 0.5581        |
| Pinnacle Rubber Base    | 4.5" no toe                    | 0.9862     | 0.4961        |
| Pinnacle Rubber Base    | 5.0" cove                      | 1.1588     | 0.5829        |
| Pinnacle Rubber Base    | 5.0" no toe                    | 1.1095     | 0.5581        |
| Pinnacle Rubber Base    | 5.5" cove                      | 1.3807     | 0.6945        |
| Pinnacle Rubber Base    | 5.5" no toe                    | 1.3067     | 0.6573        |
| Pinnacle Rubber Base    | 6.0" cove                      | 1.4793     | 0.7441        |
| Pinnacle Rubber Base    | 6.0" no toe                    | 1.4300     | 0.7193        |
| Pinnacle Plus Wall Base | #05 Contrive                   | 1.2327     | 0.6201        |
| Pinnacle Plus Wall Base | #75 Level                      | 1.8491     | 0.9301        |
| Pinnacle Plus Wall Base | #00 Simplicity                 | 1.0848     | 0.5457        |
| Pinnacle Plus Wall Base | #10 Serenity                   | 1.0848     | 0.5457        |
| Pinnacle Plus Wall Base | #50 Impressions                | 1.2327     | 0.6201        |
| Pinnacle Plus Wall Base | #90 Intrigue                   | 1.0848     | 0.5457        |
| Pinnacle Plus Wall Base | #20 Draft                      | 0.8629     | 0.4340        |
| Pinnacle Plus Wall Base | #30 Sketch                     | 0.8876     | 0.4464        |
| Pinnacle Plus Wall Base | #85 Fashion                    | 1.9724     | 0.9921        |
| Pinnacle Plus Wall Base | #25 Classic                    | 1.9724     | 0.9921        |
| Pinnacle Plus Wall Base | #35 Sleek                      | 2.0710     | 1.0417        |
| Pinnacle Plus Wall Base | #65 Vertical                   | 3.0202     | 1.5192        |
| Pinnacle Plus Wall Base | #15 Impulse                    | 1.5286     | 0.7689        |
| Pinnacle Plus Wall Base | #95 Invent                     | 1.4793     | 0.7441        |
| Pinnacle Plus Wall Base | #55 Nobility                   | 3.1435     | 1.5812        |
| Rubber Accessories      | #1 Commercial Stair Nosing SQ  | 2.4655     | 1.2401        |
| Rubber Accessories      | #2 Commercial Stair Nosing RD  | 2.1367     | 1.0748        |
| Rubber Accessories      | #3 Residential Stair Nosing SQ | 1.3807     | 0.6945        |
| Rubber Accessories      | #4 Residential Stair Nosing RD | 1.3807     | 0.6945        |
| Rubber Accessories      | #5 Domestic Stair Nosing SQ    | 0.9862     | 0.4961        |

|                    |                                              |        |        |
|--------------------|----------------------------------------------|--------|--------|
| Rubber Accessories | #6 Domestic Stair Nosing RD                  | 0.9862 | 0.4961 |
| Rubber Accessories | #7 Underlap Stair Nosing SQ                  | 1.4793 | 0.7441 |
| Rubber Accessories | #M-07 Modified Underlap Stair Nosing SQ      | 1.8080 | 0.9094 |
| Rubber Accessories | #8 Underlap Stair Nosing RD                  | 1.5450 | 0.7772 |
| Rubber Accessories | #9 Underlap Stair Nosing SQ                  | 1.6437 | 0.8268 |
| Rubber Accessories | #10 Underlap Stair Nosing RD                 | 1.6437 | 0.8268 |
| Rubber Accessories | #11 Single Flange Carpet Stair Nosing SQ     | 2.7942 | 1.4055 |
| Rubber Accessories | #12 Single Flange Carpet Stair Nosing RD     | 2.7942 | 1.4055 |
| Rubber Accessories | #13 Single Flange Carpet Stair Nosing SQ     | 2.1367 | 1.0748 |
| Rubber Accessories | #14 Single Flange Carpet Stair Nosing RD     | 2.1367 | 1.0748 |
| Rubber Accessories | #15 Double Flange Carpet Stair Nosing SQ     | 2.9914 | 1.5047 |
| Rubber Accessories | #16 Double Flange Carpet Stair Nosing SQ     | 2.9586 | 1.4882 |
| Rubber Accessories | #17 Undercut Carpet Nosing SQ                | 2.3011 | 1.1575 |
| Rubber Accessories | #18 Undercut Carpet Nosing RD                | 2.1367 | 1.0748 |
| Rubber Accessories | #19 Corner Guard                             | 0.1534 | 0.0772 |
| Rubber Accessories | #19-XTR Corner Guard                         | 1.8640 | 0.9376 |
| Rubber Accessories | #20 Transitional Reducer 7/16"               | 1.3149 | 0.6614 |
| Rubber Accessories | #21 Reducer Strip .080 for Resilient Floors  | 0.1446 | 0.0728 |
| Rubber Accessories | #22 Reducer Strip 1/8"                       | 0.2465 | 0.1240 |
| Rubber Accessories | #23 Reducer Strip 3/16"                      | 0.4109 | 0.2067 |
| Rubber Accessories | #24 Reducer Strip 1/4"                       | 0.5358 | 0.2695 |
| Rubber Accessories | #25 Reducer Strip 5/16"                      | 0.5753 | 0.2894 |
| Rubber Accessories | #26 Reducer Strip 3/8"                       | 0.6772 | 0.3406 |
| Rubber Accessories | #28 Carpet Cove Cap 3/16" Round              | 0.4536 | 0.2282 |
| Rubber Accessories | #32 Half Threshold                           | 2.2210 | 1.1172 |
| Rubber Accessories | #33 Full Threshold                           | 4.0870 | 2.0558 |
| Rubber Accessories | #34 Underlap Carpet Edge 3/16"               | 0.4931 | 0.2480 |
| Rubber Accessories | #35 Underlap Carpet Edge 1/4"                | 0.2663 | 0.1339 |
| Rubber Accessories | #36 Underlap Carpet Edge 5/16"               | 0.4273 | 0.2150 |
| Rubber Accessories | #37 Underlap Carpet Edge 3/8"                | 0.5753 | 0.2894 |
| Rubber Accessories | #38 Glue-Down Carpet Edge 1/4"               | 0.8547 | 0.4299 |
| Rubber Accessories | #39 Glue-Down Carpet Edge 5/16"              | 1.0191 | 0.5126 |
| Rubber Accessories | #40 Carpet Edge Guard 9/32"                  | 0.6903 | 0.3472 |
| Rubber Accessories | #41 Tackless Carpet Bar 1/4"                 | 0.6903 | 0.3472 |
| Rubber Accessories | #42 Custom Carpet Edging 3/16"               | 1.0191 | 0.5126 |
| Rubber Accessories | #43 Custom Carpet Edging 1/4"                | 1.0191 | 0.5126 |
| Rubber Accessories | #44 Fillet Strip                             | 0.4109 | 0.2067 |
| Rubber Accessories | #45 Reducer Strip 1/8"                       | 0.4109 | 0.2067 |
| Rubber Accessories | #46 Cove Cap 1/8" Square                     | 0.1644 | 0.0827 |
| Rubber Accessories | #47 Cove Cap 1/4" Square                     | 0.2071 | 0.1042 |
| Rubber Accessories | #48 Reducer Strip 3/32"                      | 0.1644 | 0.0827 |
| Rubber Accessories | #49 Transitional Reducer 9/16"               | 1.3807 | 0.6945 |
| Rubber Accessories | #50 Tile/Carpet Joiner 7/32"                 | 0.6575 | 0.3307 |
| Rubber Accessories | #56 Tile/Carpet Joiner 1/2"                  | 0.6575 | 0.3307 |
| Rubber Accessories | #57 Landing Trim                             | 0.8547 | 0.4299 |
| Rubber Accessories | #59 Reducer Strip 1/8" Tapering to .080"     | 0.3945 | 0.1984 |
| Rubber Accessories | #60 Tile/Carpet Joiner 3/8"                  | 0.6575 | 0.3307 |
| Rubber Accessories | #65 Rolling Traffic Transition 1/4" to 1/8"  | 1.8080 | 0.9094 |
| Rubber Accessories | #66 Rolling Traffic Transition 3/8" to .080" | 0.9533 | 0.4795 |
| Rubber Accessories | #67 Rolling Traffic Transition 3/8" to 1/8"  | 2.1039 | 1.0582 |
| Rubber Accessories | #73 Rolling Traffic Transition 1/4" to .080" | 1.8080 | 0.9094 |
| Rubber Accessories | #74 Rolling Traffic Transition 3/8"          | 1.8902 | 0.9508 |
| Rubber Accessories | #75 Rolling Traffic Transition 3/8" to 1/4"  | 2.0710 | 1.0417 |

## Interpretation

The largest sources of impact are raw materials (A1), followed by manufacturing (A3), for all indicators other than GWPbiogenic. Raw material (A1) impacts come primarily from SBR (styrene butadiene rubber), as well as kaolin and titanium dioxide consumption. Manufacturing (A3) impacts are driven by electricity and natural gas consumption. For GWPbiogenic, disposal (C4) is the largest contributor due to the landfilling impacts.

## Further Information

Since this product is available in a variety of configurations and weights, the table below provides multiplication factors to facilitate calculation of environmental impacts for other variants. These multipliers were derived based on deviations from the average product weight for this product, as presented in Section 4 of this EPD. To estimate impacts for alternate configurations, users may multiply the values in the results tables by the appropriate factor from the table above.

## Baseline Product Specifications

| ND                | Average Value | Unit | Min Value | Max Value |
|-------------------|---------------|------|-----------|-----------|
| Product Thickness | 3.18          | mm   | ND        | ND        |
| Product Weight    | 0.503         | kg/m | 0.033     | 2.06      |
| Rolls (Width)     | 0.107         | m    | ND        | ND        |
| Rolls (Length)    | 36.6          | m    | 0.064     | 0.152     |
| Tiles             | 610           | mm   | 12.3      | 36.6      |
| Planks            | 1219          | mm   | 1219      | 2743      |

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