



ICC
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ENVIRONMENTAL PRODUCT DECLARATION

Wood-Plastic Composite Deck Boards



According to ISO 14025:2006 and EN 15804+A2

Wood-Plastic Composite Deck Boards:

Trex Signature®

Trex Transcend®

Trex Transcend Lineage®

Trex Select®

Trex Enhance®



Trex Company Inc. is a leading global manufacturer of high-performance, wood-alternative composite decking and outdoor living products. Trex product lines are designed for residential and commercial markets and are available in more than 40 countries. Founded in 1996, Trex pioneered the use of recycled plastic and reclaimed wood to create durable, low-maintenance, eco-conscious decking.

The Wood-plastic Composite Deck Boards' Environmental Product Declaration (EPD) is just one of many certificates that validate Trex Company's responsible stance. It is a standardized, internationally recognized tool, containing data to help evaluate the products' impact on a comprehensive level.

Trex Deck Boards

Trex Signature - 1 m² of floor covering

LCA IMPACT MEASURES	A1-A3
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Global Warming Potential (kg CO ₂ eq.)	2.03E+01
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Ozone Depletion (kg CFC 11 eq.)	3.14E-11
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Eutrophication Potential - freshwater (kg P eq.)	2.79E-05
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Acidification Potential (mol H ⁺ eq.)	4.17E-02
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Photochemical Ozone Creation Potential (kg NMVOC eq.)	4.24E-02
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PERFORMANCE ATTRIBUTES

See Section 3.0

Product Ingredients: Recycled Wood, Recycled PE, PE Resin Carrier and Coating

Visit <https://www.trex.com> for more information



This document is a Type III declaration by **Trex Company Inc** that is certified by ICC-ES as conforming to the requirements of ISO 14025 and EN15804+A2. ICC-ES has assessed that the Life Cycle Assessment (LCA) information fulfills the requirements of ISO 14040 in accordance with the instructions listed in the product category rules cited below. The intent of this document is to further the development of environmentally compatible and sustainable construction methods by providing comprehensive environmental information related to potential impacts in accordance with international standards.

Declaration Number	EPD-1073	
Program Operator	ICC-ES Evaluation Services, LLC 900 Montclair Road, Suite A Birmingham, AL 35213	www.icc-es.org
Declaration Holder	Trex Company Inc 2500 Trex Way Winchester, Virginia, 22601	
Declared Product	1 m ² of Wood-Plastic Composite Deck Board	
Declared Unit	1 m ² of floor covering	
Declaration Type	Product specific and Manufacturer specific	
Applicable Countries	North America, Europe, Australia	
Product Application	Finished flooring in residential and commercial flooring systems	
Content of the Declaration	Product Definition, Application, Performance Attributes, Material Content, Production, Life Cycle Assessment, Additional Information, References	
LCA Software and Database	Sphera LCA for Experts (fka GaBi) 10.9.4.13; Sphera Managed LCA Content 2025.2	
General Program Instructions	ICC-ES EPD Program Instructions 2025	
PCR Development	☐ New or Revised	☒ Existing
PCR Reference	EN 15804:2012+A2:2019 - Sustainability of Construction Works - Environmental Product Declarations- Core Rules for the Product Category of Construction Products	

EPD Date of Issue: August 2026

EPD Period of Validity: 5 years

Verification and Authorization of the Declaration

This Declaration and the rules on which the EPD is based have been examined by an independent verifier in accordance with ISO 14025.

Independent verification of the declaration and data, according to EN ISO 14025:2010:

☐ Internal

☒ External

Alex Collins

Kim Hammer

Alex Collins, E.I., Manager of Environmental Programs, ICC-ES

Date: 07/20/2026

Independent Verifier and LCA Review
Kim Hammer, Sustainable Minds

Date: 07/15/2026

ICC-ES certification of an Environmental Product Declaration (EPD) is not the equivalent of an ICC-ES Evaluation Report (ESR), Verification of Attributes Report (VAR), or ICC-ES Listing (ESL) for code compliance. ICC-ES certification of an EPD is limited to the requirements for Type III environmental declarations in accordance with ISO 14025 and does not apply to product performance attributes which demonstrate compliance to codes. ICC-ES certification of this EPD is not to be construed as representing aesthetics or any other attributes not specifically addressed, nor should it be construed as an ICC-ES endorsement of the subject of the EPD or a recommendation for its use. There is no warranty by ICC-ES, express or implied, as to any finding or other matter in the EPD, or as to any product covered by the EPD. The EPD holder is liable for the information and evidence on which the EPD is based. Environmental Product Declarations from different programs may not be comparable. EPDs are comparable only if they comply with this document, use the same sub-category PCR where applicable, include all relevant information modules and are based on equivalent scenarios with respect to the context of construction works. When comparing EPDs created using this PCR, variations and deviation are possible. Example of variations: Different LCA software and background LCI datasets may lead to different results for upstream or downstream of the life cycle stages declared.

EPD of construction products may not be comparable if they do not comply with EN15804:2012+A2:2019



Summary LCA Results

Product Components Related to Life Cycle Assessment

This EPD covers the wood-plastic composite deck boards. There are 5 products in the scope with different trade names: Trex Signature®, Trex Transcend Lineage®, Trex Transcend®, Trex Select®, and Trex Enhance®. The products are manufactured in two profiles; square edge and groove edge with varying thicknesses. The profiles of 24 mm thickness, 140 mm width and 6090 mm length have been considered in the study.

Scope and Boundaries of Life Cycle Assessment

The Life Cycle Assessment (LCA) was performed according to ISO 14040 and follows the PCR instructions. The cradle-to-grave LCA encompasses raw material production; transport of raw materials to production facility; manufacturing of deck boards; packaging; transportation to the job site; use phase; and end of life including disposal or recycling. Detailed information regarding the LCA is found in Section 9.

Life Cycle Assessment Summary

Declared Unit: 1m² of floor covering

Results and interpretation: For Global Warming Potential, the majority of the impacts are driven by production stage that includes raw material production, transportation and manufacturing, with a contribution varying from 23% to 47% across the products, and the replacement of the product, with a contribution of around 32% to 65%, primarily depending upon the product service life. Acidification Potential, Ozone Depletion Potential, POCP and Abiotic Depletion Potential of fossil are also driven by production stage and replacement. The freshwater Eutrophication Potential appears to be driven by product disposal, followed by manufacturing and replacement. This is due to the plastic waste sent to landfill that emits leachate, which fuels microbial growth that accelerates eutrophication in freshwater.

Impact Categories	A1-A3 (Trex Signature)	A1-A3 (Trex Transcend Lineage)	A1-A3 (Trex Transcend)	A1-A3 (Trex Select)	A1-A3 (Trex Enhance)
EF 3.1					
GWP-Total (kg CO ₂ eq.)	2.03E+01	1.70E+01	1.70E+01	1.56E+01	1.35E+01
AP (mol H ⁺ eq.)	4.17E-02	3.55E-02	3.55E-02	3.26E-02	2.81E-02
EP-Freshwater (kg P eq.)	2.79E-05	3.30E-05	3.30E-05	3.03E-05	2.62E-05
ODP (kg CFC11 eq.)	3.14E-11	3.24E-11	3.24E-11	2.97E-11	2.57E-11
POCP (kg NMVOC eq.)	4.24E-02	3.60E-02	3.60E-02	3.30E-02	2.85E-02
ADP-Fossil (MJ)	3.75E+02	3.19E+02	3.19E+02	2.93E+02	2.53E+02

Additional Information

The products have been evaluated under the ICC-ES Environmental Reports Program. See [VAR-1011](#) for more information.



1.0 Product Definition

1.1 Product Definition and Performance

This life cycle assessment report covers the following products from the Construction Specification Institute (CSI) division 09 64 00 and the UNSPSC 30161700.

- Trex Signature® decking is made of nature-inspired wood thermoplastic lumber (WTCL) for a look as much like wood as wood itself. The proprietary shell formulation creates an elegant grain pattern finish and a high-end matte feel.
- Trex Transcend® Lineage® decking is a WTCL board with an integrated natural, wood-like grain pattern shell on the top surface and sides that offers heat-mitigating technology.
- Trex Transcend® decking is a WTCL board with an integrated shell with deep, wood-grain texture and multi-tone hues for an exotic wood design.
- Trex Select® decking is a WTCL board with an integrated shell on the top surface and sides. The shell's outer layer provides a natural, wood-like grain pattern finish.
- Trex Enhance® decking is a WTCL board with an integrated shell that covers the boards on the top surface and sides. The integrated shell consists of a proprietary surface formulation that produces a natural, wood-like grain pattern finish.



2.0 Product Application

The deck boards are applicable and used as finished flooring in residential and commercial flooring systems.

3.0 Performance Attributes

The table below shows the performance attributes of the products, including any testing data as appropriate. These are values as provided by the applicant and have not been evaluated by ICC-ES.

Parameter	Unit	Standard	Value
Flame spread index	-	ASTM E 84	Trex Signature: 175, Trex Transcend Lineage: 49, Trex Transcend: 90, Trex Select: 115, Trex Enhance: 45
Thermal expansion	in/in/°F	ASTM D 1037	1.9×10^{-5}
Moisture absorption	%	ASTM D 1037	<1 for Trex Signature, Trex Transcend Lineage, Trex Transcend, Trex Enhance, <1.2 for Trex Select
Screw head pull-through	kgf/screw	ASTM D1761	73
Fungus resistance		ASTM D1413	Rating - no decay
Termite resistance		AWPAE1-72	Rating = 9.6



4.0 Material Content

The raw materials for the product were obtained from within the United States. The general compositions of the products are represented in the table below.

Material	Composition (%)	% Pre-Consumer Recycled Content	% Post-Consumer Recycled Content	Biogenic Carbon Content (kg C/kg)
Recycled Wood saw dust	50%	50%	0%	0.50
Recycled Polyethylene	45%	15%	30%	0.00
Virgin Polyethylene	4%	0%	0%	0.00
Coating	1%	0%	0%	0.00

Note 1: The mass prior to yield losses has been scaled and calculated accordingly in the model.

Note 2: No substances in the product are on the Candidate List of Substances of Very High Concern (SVHC), which exceed the limits for registration with the European Chemicals Agency.

5.0 Production

The raw materials for the product were obtained from within the United States. The materials are delivered to the manufacturing facility via truck and are accounted for in the model. The distances were modeled by material and were calculated using the supplier location and the location of manufacturing.

Energy resources used in the manufacturing process are accounted for in the model. The electricity is sourced from the power grid, and no on-site electricity generation is used. Electricity production datasets from MLC and eGRID for the NWPP (WECC Northwest) region and RFCW for the Winchester VA facility were used to assess the generation, distribution, and transmission of electricity, which applies to both the facilities in Nevada and Virginia. Secondary datasets for other fuels, packaging, and waste were utilized from the MLC database. Manufacturing inputs and outputs per declared unit were calculated by using annual figures and dividing them by annual production. Packaging materials are also included in the model in this stage.

Wood-plastic composite (WPC) deck boards are manufactured by blending dried wood fibers (recycled sawdust) with thermoplastics (commonly recycled polyethylene) and performance additives (e.g., coupling agents, pigments, UV stabilizers, and lubricants). The mixture is compounded under heat to form a homogeneous composite, which is then shaped through an extrusion process into deck board profiles. The extruded boards are subsequently cooled, dimensionally calibrated, surface-textured (e.g., embossed), and cut to standard lengths. Finished products undergo quality control checks before packaging and distribution.

5.1 Health, Safety and Environmental Aspects During Production

Trex Company Inc meets all federal and state standard related to environmental and health during manufacturing. No substances required to be reported as hazardous per the EPA's Resource Conservation and Recovery Act (US EPA, 2023) were identified during the LCA associated with the production or disposal of this product.



6.0 Installation

The product is delivered to the customer via truck and cargo ship to the primary market of the North American region, and other markets of the European region, and the Australian region. Transportation averages are calculated based on sales records.

Parameter	Unit	North American Truck	Global Ship	European Truck
Vehicle Type	-	Heavy Heavy-duty Diesel Truck / 53,333 lb payload - 8b	Bulk commodity carrier, 1,000 to 250,000 dwt payload capacity, deep sea	Truck-trailer, Euro 1, 34 - 40t gross weight / 27t payload capacity
Fuel Efficiency for Full Vehicle	L/100km	42	17,340	56.2
Capacity Utilization	%	67%	53%	61%

95% of the products are shipped to the primary markets of the North American region, and 2.5% to other markets of Europe, and 2.5% to Australia. The weighted average distance of the truck and the ship is given below.

Transportation model	Distance	Unit
Truck	1,471	km
Ship	1,703	km

Installation includes the fastener and the energy needed to operate the tools to install the fastener. However, the manufacturing of the installation equipment is not included in the study, as these are multi-use tools, and the impacts per declared unit are considered negligible. Packaging and installation waste disposal have been modeled as per guidelines in section 2.8.5 of Part A: Life Cycle Assessment Calculation Rules and Report Requirements, as given in the table below.

Parameter	Unit	Quantity	Remarks
Fastener (Stainless steel screw)	kg	0.014	Calculated based on 60 pieces fasteners required per m ²
Energy required for the tool	kWh	0.001	Assumed 0.4Wh consumed for 1 fastener installation
Installation waste generated	%	2	USEPA's Waste Management Factsheet
Plastic waste to landfill	%	80.5%	
Plastic waste to incineration	%	12.7%	
Plastic waste to recycling	%	6.8%	
Wood waste to landfill	%	81.9%	
Wood waste to incineration	%	18.1%	
Wood waste to recycling	%	0.0%	



7.0 Use Stage

The study includes maintenance and replacement as part of the use stage, as no energy, repair, or refurbishment is consumed during the use stage of the product.

Replacement accounts for the impacts associated with substituting a product or component during the reference service life of the building or system. It includes all life cycle processes required to produce and install the replacement product. The reference service life (RSL) of the products is 25, 35, and 50 years, as given in the table above. Therefore, after initial installation in a building with an estimated service life (ESL) of 75 years, there will be 2, 1.1, and 0.5 replacements needed, respectively. The fasteners are not reused; hence the fasteners are accounted for in replacement.

Parameter	Unit	Quantity
Maintenance		
Water required for maintenance	Liters/m ² /day	0.75
Number of days assumed for cleaning in a year	days	260
Estimated Service Life (ESL) of Building	years	75
Fate of water consumed		Wastewater disposed to sewer
Replacement		
Reference Service Life	Years	25/35/50
Replacement cycle	(ESL/RSL)-1	2/1.1/0.5
Energy input during replacement	kWh	0.024
Exchange of worn parts during the product's life cycle	kg	0.00

8.0 Extraordinary Effects

The extraordinary effects are not applicable to this product.

9.0 End of Life Stage

In this stage, the product is transported to the end-of-life facility and disposed of. The table below shows the parameters for the end-of-life scenario utilized in the model. Product waste disposal has been modeled as per the details shared by Trex Company. The distance from the installation site to the waste processing site is considered 100 miles or 161 km.

Parameter	Unit	Quantity
Waste to Landfill	%	100
Distance to Landfill	km	161
Waste to Incineration	%	0.00
Distance to Incineration	km	0.00
Waste to Recycling	%	0.00
Distance to Recycling	km	0.00



10.0 Life Cycle Assessment

This study provides a life cycle inventory and environmental impacts relevant to Trex Company Inc's Wood-Plastic Composite Deck Boards. This LCA was conducted to 1) better understand the environmental impacts of the life cycle of wood-plastic composite deck boards; 2) learn how the impacts of raw material selection, product formulation and manufacturing process influence the life cycle impacts of the product, and 3) use innovation to drive reduction on the product platform.

The methods for conducting the life cycle assessments used for this project were consistent with ISO 14040 and 14044. Impact results have been calculated using EN15804+A2 (EF 3.1) characterization factors (CEN, 2019). Results presented in this report are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins, or risks.

10.1 Information on the Product System Definition and Modeling of the Life Cycle

Declaration of LCA methodological framework

This LCA follows an attributional approach.

Declared unit

The declared unit, according to the PCR is 1 m² of floor covering. The table shows additional details related to the declared unit and the Reference Service Life (RSL)

Products	Mass per declared unit [kg]	RSL (years)
Trex Signature	26.57	50
Trex Transcend Lineage	25.51	50
Trex Transcend	25.21	50
Trex Select	23.39	35
Trex Enhance	20.20	25

Reference Service Life

In this study, the reference service life (RSL) of the products is 25, 35, and 50 years, as given in the table above. Therefore, after initial installation in a building with an Estimated Service Life (ESL) of 75 years, there will be 2, 1.1, and 0.5 replacements needed.

Cut-Off Criteria

Cumulative excluded material inputs, energy inputs, and environmental impacts did not exceed 5% based on total weight, energy use, or environmental impact of the declared unit. Inputs or outputs greater than 1% (based on the total mass of the final product) were included within the scope of analysis. Material inputs less than 1% were also included, as there was sufficient data available to warrant inclusion and/or the material input was thought to have a significant environmental impact. No known flows are deliberately excluded from this EPD.

Allocation

General principles of allocation were based on ISO 14040/44. There are no products other than the product under study that are produced as part of the specific manufacturing processes under study. There are, however, other products produced at the manufacturing facility. To derive a per-unit value for manufacturing inputs such as electricity, thermal energy, and water, allocation based on total production by mass was adopted. As a default, secondary MLC datasets use a physical basis for allocation.



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Of relevance to the defined system boundary is the method in which recycled materials were handled. Throughout the study, recycled materials were accounted for via the cut-off method. Under this method, impacts and benefits associated with the previous life of a raw material from recycled stock are excluded from the system boundary. The study does include the impacts associated with the reprocessing and preparation of recycled materials that are part of the bill of materials of the products under study.

Data Quality Requirements

Secondary datasets utilized in the model are disclosed in the background LCA report along with data quality indicators related to the geographic, temporal, and technological coverage of the dataset. Additionally, details on proxies are provided, if applicable. Data quality follows the schema defined by the UN Environment Global Guidance on LCA database development, per Annex E of EN15804+A2. The dataset variability is <10%.

Geographic Coverage

The geographical scope of the manufacturing portion of the life cycle is the United States. Manufacturing takes place in Fernley, NV, and Winchester, VA. The geographical scope of the raw material acquisition is the United States. Customer distribution, site installation, and use portions of the life cycle are in the United States, Europe, and Australia.

Time Coverage

This temporal scope is production during calendar year 2024.

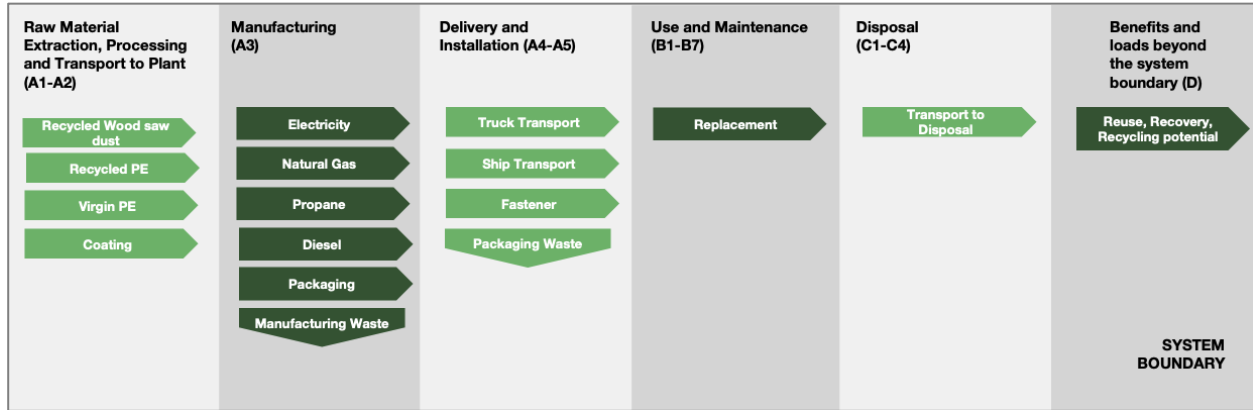
Technological coverage

Primary data provided by the manufacturer is specific to the technology the company uses in manufacturing its product. It is site-specific and considered of good quality. Data necessary to model cradle-to-gate unit processes were sourced from MLC LCI datasets. Technological coverage of the datasets is considered good relative to the actual supply chain of the manufacturer.

10.1.1 System Boundaries

	Production			Construction		Use							End of Life				Benefits & Loads Beyond System Boundary
	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
	Raw Material Supply	Transport	Manufacturing	Transport to Site	Assembly/Install	Use	Maintenance	Repair	Replacement	Refurbishment	Operational Energy Use	Operational Water Use	Deconstruction	Transport	Waste Processing	Disposal	Reuse, Recovery, Recycling Potential
Modules declared	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Variation - sites	27%			-	-	-	-	-	-	-	-	-	-	-	-	-	-

X = Module Declared, ND = Module Not Declared



10.1.2 Assumptions and Limitations

Throughout this report, value choices and judgements that may have affected the LCA have been described. Additional decisions are summarized below:

- The use and selection of secondary datasets from MLC. The selection of which generic dataset to use to represent an aspect of a supply chain is a significant value choice. Collaboration between the LCA practitioner, the manufacturer, and MLC data experts was invaluable in determining best-case scenarios in the selection of data. However, no generic data can be a perfect fit.

Some limitations to the study have been identified as follows:

- Only known and quantifiable environmental impacts are considered.
- Due to the assumptions and value choices listed above, these do not reflect real-life scenarios and hence, they cannot assess actual and exact impacts, but only potential environmental impacts.



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10.2 Information on the Product System Definition and Modeling of the Life Cycle

All the results are given per declared unit as a weighted average of both facilities, Winchester, VA, and Fernley, NV. The LCIA results are presented below for the declared unit, i.e., 1 m² of floor covering.

1. Trex Signature®

Impact Category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5-B7	C1	C2	C3	C4	D
Environmental Impact Indicators														
GWP-total	kg CO ₂ eq.	2.03E+01	3.44E+00	1.56E+00	0.00E+00	1.73E+00	0.00E+00	1.37E+01	0.00E+00	0.00E+00	3.50E-01	0.00E+00	1.81E+00	0.00E+00
GWP-fossil	kg CO ₂ eq.	2.15E+01	3.44E+00	1.48E+00	0.00E+00	1.73E+00	0.00E+00	1.37E+01	0.00E+00	0.00E+00	3.49E-01	0.00E+00	6.03E-01	0.00E+00
GWP-biogenic	kg CO ₂ eq.	-1.28E+00	0.00E+00	7.13E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E+00	0.00E+00
GWP-luluc	kg CO ₂ eq.	3.74E-02	1.74E-03	1.71E-03	0.00E+00	1.60E-03	0.00E+00	2.07E-02	0.00E+00	0.00E+00	1.85E-04	0.00E+00	4.25E-04	0.00E+00
ODP	kg CFC 11 eq.	3.14E-11	8.06E-13	1.05E-11	0.00E+00	8.77E-12	0.00E+00	2.22E-11	0.00E+00	0.00E+00	8.28E-14	0.00E+00	1.54E-12	0.00E+00
AP	mol H ⁺ eq.	4.17E-02	2.17E-02	1.16E-02	0.00E+00	4.24E-03	0.00E+00	4.03E-02	0.00E+00	0.00E+00	1.08E-03	0.00E+00	4.64E-03	0.00E+00
EP-freshwater	kg P eq.	2.79E-05	5.96E-06	3.45E-05	0.00E+00	1.31E-04	0.00E+00	2.08E-04	0.00E+00	0.00E+00	6.35E-07	0.00E+00	3.47E-04	0.00E+00
EP-marine	kg N eq.	1.59E-02	9.47E-03	9.76E-04	0.00E+00	1.49E-03	0.00E+00	1.42E-02	0.00E+00	0.00E+00	5.25E-04	0.00E+00	1.62E-03	0.00E+00
EP-terrestrial	mol N eq.	1.73E-01	1.04E-01	1.09E-02	0.00E+00	1.11E-02	0.00E+00	1.54E-01	0.00E+00	0.00E+00	5.74E-03	0.00E+00	1.46E-02	0.00E+00
POCP	kg NMVOC eq.	4.24E-02	2.03E-02	3.18E-03	0.00E+00	3.01E-03	0.00E+00	3.51E-02	0.00E+00	0.00E+00	1.04E-03	0.00E+00	3.40E-03	0.00E+00
ADP-minerals & metals	kg Sb eq.	3.18E-06	5.27E-07	5.36E-05	0.00E+00	1.41E-07	0.00E+00	2.87E-05	0.00E+00	0.00E+00	5.39E-08	0.00E+00	6.94E-08	0.00E+00
ADP-fossil	MJ	3.75E+02	4.41E+01	1.77E+01	0.00E+00	2.85E+01	0.00E+00	2.25E+02	0.00E+00	0.00E+00	4.51E+00	0.00E+00	9.12E+00	0.00E+00
WDP	m ³	3.71E+00	4.68E-02	2.63E-01	0.00E+00	3.80E+02	0.00E+00	2.03E+00	0.00E+00	0.00E+00	4.94E-03	0.00E+00	3.06E-02	0.00E+00
Resource Use Indicators														
PERE	MJ	4.12E+01	1.77E+00	4.76E+00	0.00E+00	4.39E+00	0.00E+00	2.46E+01	0.00E+00	0.00E+00	1.88E-01	0.00E+00	1.29E+00	0.00E+00
PERM	MJ	1.39E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	5.51E+01	1.77E+00	4.76E+00	0.00E+00	4.39E+00	0.00E+00	3.16E+01	0.00E+00	0.00E+00	1.88E-01	0.00E+00	1.29E+00	0.00E+00
PENRE	MJ	3.18E+02	4.41E+01	1.77E+01	0.00E+00	2.85E+01	0.00E+00	1.97E+02	0.00E+00	0.00E+00	4.51E+00	0.00E+00	9.12E+00	0.00E+00
PENRM	MJ	5.71E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	3.75E+02	4.41E+01	1.77E+01	0.00E+00	2.85E+01	0.00E+00	2.25E+02	0.00E+00	0.00E+00	4.51E+00	0.00E+00	9.12E+00	0.00E+00
SM	kg	2.53E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00



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According to ISO 14025:2006 and EN 15804+A2

RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m³	1.13E-01	1.92E-03	7.45E-03	0.00E+00	1.13E+01	0.00E+00	6.16E-02	0.00E+00	0.00E+00	2.03E-04	0.00E+00	1.09E-03	0.00E+00
Waste and Output Flow Indicators														
HWD	kg	1.16E-07	7.31E-09	8.49E-09	0.00E+00	9.53E-09	0.00E+00	6.72E-08	0.00E+00	0.00E+00	7.48E-10	0.00E+00	2.16E-09	0.00E+00
NHWD	kg	3.51E-01	4.44E-03	1.47E+00	0.00E+00	3.50E+00	0.00E+00	1.41E+01	0.00E+00	0.00E+00	4.62E-04	0.00E+00	2.63E+01	0.00E+00
RWD	kg	1.64E-02	1.51E-04	5.33E-04	0.00E+00	8.14E-04	0.00E+00	8.60E-03	0.00E+00	0.00E+00	1.55E-05	0.00E+00	1.01E-04	0.00E+00
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	kg	3.16E+00	0.00E+00	6.60E-03	0.00E+00	0.00E+00	0.00E+00	1.58E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Optional Indicators														
PM	Disease incidence	4.16E-07	2.63E-07	1.67E-07	0.00E+00	7.34E-08	0.00E+00	4.53E-07	0.00E+00	0.00E+00	1.20E-08	0.00E+00	4.80E-08	0.00E+00
IRP	kBq U235	1.35E+00	1.26E-02	6.03E-02	0.00E+00	7.65E-02	0.00E+00	7.19E-01	0.00E+00	0.00E+00	1.30E-03	0.00E+00	9.60E-03	0.00E+00
ETP-fw	CTUe	1.25E+02	3.15E+01	1.43E+01	0.00E+00	4.32E+01	0.00E+00	1.00E+02	0.00E+00	0.00E+00	3.25E+00	0.00E+00	2.68E+01	0.00E+00
HTP-c	CTUh	3.81E-09	7.56E-10	1.39E-09	0.00E+00	9.39E-10	0.00E+00	3.08E-09	0.00E+00	0.00E+00	6.00E-11	0.00E+00	1.42E-10	0.00E+00
HTP-nc	CTUh	1.12E-07	1.58E-08	1.15E-08	0.00E+00	6.84E-08	0.00E+00	7.33E-08	0.00E+00	0.00E+00	1.64E-09	0.00E+00	5.58E-09	0.00E+00
LU	Pt	3.94E+01	6.24E+00	3.56E+00	0.00E+00	2.56E+00	0.00E+00	2.53E+01	0.00E+00	0.00E+00	6.69E-01	0.00E+00	6.82E-01	0.00E+00



ENVIRONMENTAL PRODUCT DECLARATION

According to ISO 14025:2006 and EN 15804+A2

2. Trex Transcend Lineage®

Impact Category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5-B7	C1	C2	C3	C4	D
Environmental Impact Indicators														
GWP-total	kg CO ₂ eq.	1.70E+01	3.31E+00	1.55E+00	0.00E+00	1.73E+00	0.00E+00	1.20E+01	0.00E+00	0.00E+00	3.36E-01	0.00E+00	1.69E+00	0.00E+00
GWP-fossil	kg CO ₂ eq.	1.82E+01	3.30E+00	1.49E+00	0.00E+00	1.73E+00	0.00E+00	1.19E+01	0.00E+00	0.00E+00	3.36E-01	0.00E+00	5.79E-01	0.00E+00
GWP-biogenic	kg CO ₂ eq.	-1.18E+00	0.00E+00	6.41E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00
GWP-luluc	kg CO ₂ eq.	4.49E-02	1.67E-03	1.65E-03	0.00E+00	1.60E-03	0.00E+00	2.44E-02	0.00E+00	0.00E+00	1.78E-04	0.00E+00	4.08E-04	0.00E+00
ODP	kg CFC 11 eq.	3.24E-11	7.73E-13	1.01E-11	0.00E+00	8.77E-12	0.00E+00	2.24E-11	0.00E+00	0.00E+00	7.95E-14	0.00E+00	1.48E-12	0.00E+00
AP	mol H ⁺ eq.	3.55E-02	2.09E-02	1.11E-02	0.00E+00	4.24E-03	0.00E+00	3.65E-02	0.00E+00	0.00E+00	1.04E-03	0.00E+00	4.45E-03	0.00E+00
EP-freshwater	kg P eq.	3.30E-05	5.72E-06	3.26E-05	0.00E+00	1.31E-04	0.00E+00	2.03E-04	0.00E+00	0.00E+00	6.09E-07	0.00E+00	3.33E-04	0.00E+00
EP-marine	kg N eq.	1.36E-02	9.09E-03	9.36E-04	0.00E+00	1.49E-03	0.00E+00	1.28E-02	0.00E+00	0.00E+00	5.04E-04	0.00E+00	1.56E-03	0.00E+00
EP-terrestrial	mol N eq.	1.48E-01	9.96E-02	1.04E-02	0.00E+00	1.11E-02	0.00E+00	1.39E-01	0.00E+00	0.00E+00	5.51E-03	0.00E+00	1.41E-02	0.00E+00
POCP	kg NMVOC eq.	3.60E-02	1.95E-02	3.05E-03	0.00E+00	3.01E-03	0.00E+00	3.14E-02	0.00E+00	0.00E+00	9.96E-04	0.00E+00	3.27E-03	0.00E+00
ADP-minerals & metals	kg Sb eq.	2.82E-06	5.06E-07	5.14E-05	0.00E+00	1.41E-07	0.00E+00	2.74E-05	0.00E+00	0.00E+00	5.18E-08	0.00E+00	6.66E-08	0.00E+00
ADP-fossil	MJ	3.19E+02	4.23E+01	1.70E+01	0.00E+00	2.85E+01	0.00E+00	1.96E+02	0.00E+00	0.00E+00	4.33E+00	0.00E+00	8.75E+00	0.00E+00
WDP	m ³	4.21E+00	4.49E-02	2.51E-01	0.00E+00	3.80E+02	0.00E+00	2.27E+00	0.00E+00	0.00E+00	4.75E-03	0.00E+00	2.94E-02	0.00E+00
Resource Use Indicators														
PERE	MJ	4.30E+01	1.70E+00	4.57E+00	0.00E+00	4.39E+00	0.00E+00	2.53E+01	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.24E+00	0.00E+00
PERM	MJ	1.29E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	5.59E+01	1.70E+00	4.57E+00	0.00E+00	4.39E+00	0.00E+00	3.18E+01	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.24E+00	0.00E+00
PENRE	MJ	2.64E+02	4.23E+01	1.70E+01	0.00E+00	2.85E+01	0.00E+00	1.68E+02	0.00E+00	0.00E+00	4.33E+00	0.00E+00	8.75E+00	0.00E+00
PENRM	MJ	5.52E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	3.19E+02	4.23E+01	1.70E+01	0.00E+00	2.85E+01	0.00E+00	1.96E+02	0.00E+00	0.00E+00	4.33E+00	0.00E+00	8.75E+00	0.00E+00
SM	kg	2.45E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	1.27E-01	1.84E-03	7.14E-03	0.00E+00	1.13E+01	0.00E+00	6.88E-02	0.00E+00	0.00E+00	1.94E-04	0.00E+00	1.05E-03	0.00E+00



ENVIRONMENTAL PRODUCT DECLARATION

According to ISO 14025:2006 and EN 15804+A2

Waste and Output Flow Indicators														
HWD	kg	1.06E-07	7.02E-09	8.15E-09	0.00E+00	9.53E-09	0.00E+00	6.19E-08	0.00E+00	0.00E+00	7.18E-10	0.00E+00	2.07E-09	0.00E+00
NHWD	kg	5.70E-01	4.26E-03	1.39E+00	0.00E+00	3.50E+00	0.00E+00	1.36E+01	0.00E+00	0.00E+00	4.43E-04	0.00E+00	2.52E+01	0.00E+00
RWD	kg	1.21E-02	1.45E-04	5.11E-04	0.00E+00	8.14E-04	0.00E+00	6.41E-03	0.00E+00	0.00E+00	1.49E-05	0.00E+00	9.72E-05	0.00E+00
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	kg	3.33E+00	0.00E+00	6.28E-03	0.00E+00	0.00E+00	0.00E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Optional Indicators														
PM	Disease incidence	3.54E-07	2.53E-07	1.60E-07	0.00E+00	7.34E-08	0.00E+00	4.12E-07	0.00E+00	0.00E+00	1.15E-08	0.00E+00	4.61E-08	0.00E+00
IRP	kBq U235	9.97E-01	1.21E-02	5.79E-02	0.00E+00	7.65E-02	0.00E+00	5.39E-01	0.00E+00	0.00E+00	1.25E-03	0.00E+00	9.22E-03	0.00E+00
ETP-fw	CTUe	1.07E+02	3.03E+01	1.37E+01	0.00E+00	4.32E+01	0.00E+00	9.00E+01	0.00E+00	0.00E+00	3.12E+00	0.00E+00	2.57E+01	0.00E+00
HTP-c	CTUh	3.50E-09	7.26E-10	1.33E-09	0.00E+00	9.39E-10	0.00E+00	2.88E-09	0.00E+00	0.00E+00	5.76E-11	0.00E+00	1.37E-10	0.00E+00
HTP-nc	CTUh	1.05E-07	1.52E-08	1.10E-08	0.00E+00	6.84E-08	0.00E+00	6.88E-08	0.00E+00	0.00E+00	1.58E-09	0.00E+00	5.35E-09	0.00E+00
LU	Pt	3.67E+01	5.99E+00	3.42E+00	0.00E+00	2.56E+00	0.00E+00	2.37E+01	0.00E+00	0.00E+00	6.42E-01	0.00E+00	6.54E-01	0.00E+00



ENVIRONMENTAL PRODUCT DECLARATION

According to ISO 14025:2006 and EN 15804+A2

3. Trex Transcend®

Impact Category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5-B7	C1	C2	C3	C4	D
Environmental Impact Indicators														
GWP-total	kg CO ₂ eq.	1.70E+01	3.31E+00	1.55E+00	0.00E+00	1.73E+00	0.00E+00	1.20E+01	0.00E+00	0.00E+00	3.36E-01	0.00E+00	1.69E+00	0.00E+00
GWP-fossil	kg CO ₂ eq.	1.82E+01	3.30E+00	1.49E+00	0.00E+00	1.73E+00	0.00E+00	1.19E+01	0.00E+00	0.00E+00	3.36E-01	0.00E+00	5.79E-01	0.00E+00
GWP-biogenic	kg CO ₂ eq.	-1.18E+00	0.00E+00	6.41E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00
GWP-luluc	kg CO ₂ eq.	4.49E-02	1.67E-03	1.65E-03	0.00E+00	1.60E-03	0.00E+00	2.44E-02	0.00E+00	0.00E+00	1.78E-04	0.00E+00	4.08E-04	0.00E+00
ODP	kg CFC 11 eq.	3.24E-11	7.73E-13	1.01E-11	0.00E+00	8.77E-12	0.00E+00	2.24E-11	0.00E+00	0.00E+00	7.95E-14	0.00E+00	1.48E-12	0.00E+00
AP	mol H ⁺ eq.	3.55E-02	2.09E-02	1.11E-02	0.00E+00	4.24E-03	0.00E+00	3.65E-02	0.00E+00	0.00E+00	1.04E-03	0.00E+00	4.45E-03	0.00E+00
EP-freshwater	kg P eq.	3.30E-05	5.72E-06	3.26E-05	0.00E+00	1.31E-04	0.00E+00	2.03E-04	0.00E+00	0.00E+00	6.09E-07	0.00E+00	3.33E-04	0.00E+00
EP-marine	kg N eq.	1.36E-02	9.09E-03	9.36E-04	0.00E+00	1.49E-03	0.00E+00	1.28E-02	0.00E+00	0.00E+00	5.04E-04	0.00E+00	1.56E-03	0.00E+00
EP-terrestrial	mol N eq.	1.48E-01	9.96E-02	1.04E-02	0.00E+00	1.11E-02	0.00E+00	1.39E-01	0.00E+00	0.00E+00	5.51E-03	0.00E+00	1.41E-02	0.00E+00
POCP	kg NMVOC eq.	3.60E-02	1.95E-02	3.05E-03	0.00E+00	3.01E-03	0.00E+00	3.14E-02	0.00E+00	0.00E+00	9.96E-04	0.00E+00	3.27E-03	0.00E+00
ADP-minerals & metals	kg Sb eq.	2.82E-06	5.06E-07	5.14E-05	0.00E+00	1.41E-07	0.00E+00	2.74E-05	0.00E+00	0.00E+00	5.18E-08	0.00E+00	6.66E-08	0.00E+00
ADP-fossil	MJ	3.19E+02	4.23E+01	1.70E+01	0.00E+00	2.85E+01	0.00E+00	1.96E+02	0.00E+00	0.00E+00	4.33E+00	0.00E+00	8.75E+00	0.00E+00
WDP	m ³	4.21E+00	4.49E-02	2.51E-01	0.00E+00	3.80E+02	0.00E+00	2.27E+00	0.00E+00	0.00E+00	4.75E-03	0.00E+00	2.94E-02	0.00E+00
Resource Use Indicators														
PERE	MJ	4.30E+01	1.70E+00	4.57E+00	0.00E+00	4.39E+00	0.00E+00	2.53E+01	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.24E+00	0.00E+00
PERM	MJ	1.29E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	5.59E+01	1.70E+00	4.57E+00	0.00E+00	4.39E+00	0.00E+00	3.18E+01	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.24E+00	0.00E+00
PENRE	MJ	2.64E+02	4.23E+01	1.70E+01	0.00E+00	2.85E+01	0.00E+00	1.68E+02	0.00E+00	0.00E+00	4.33E+00	0.00E+00	8.75E+00	0.00E+00
PENRM	MJ	5.52E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	3.19E+02	4.23E+01	1.70E+01	0.00E+00	2.85E+01	0.00E+00	1.96E+02	0.00E+00	0.00E+00	4.33E+00	0.00E+00	8.75E+00	0.00E+00
SM	kg	2.45E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	1.27E-01	1.84E-03	7.14E-03	0.00E+00	1.13E+01	0.00E+00	6.88E-02	0.00E+00	0.00E+00	1.94E-04	0.00E+00	1.05E-03	0.00E+00



ENVIRONMENTAL PRODUCT DECLARATION

According to ISO 14025:2006 and EN 15804+A2

Waste and Output Flow Indicators														
HWD	kg	1.06E-07	7.02E-09	8.15E-09	0.00E+00	9.53E-09	0.00E+00	6.19E-08	0.00E+00	0.00E+00	7.18E-10	0.00E+00	2.07E-09	0.00E+00
NHWD	kg	5.70E-01	4.26E-03	1.39E+00	0.00E+00	3.50E+00	0.00E+00	1.36E+01	0.00E+00	0.00E+00	4.43E-04	0.00E+00	2.52E+01	0.00E+00
RWD	kg	1.21E-02	1.45E-04	5.11E-04	0.00E+00	8.14E-04	0.00E+00	6.41E-03	0.00E+00	0.00E+00	1.49E-05	0.00E+00	9.72E-05	0.00E+00
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	kg	3.33E+00	0.00E+00	6.28E-03	0.00E+00	0.00E+00	0.00E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Optional Indicators														
PM	Disease incidence	3.54E-07	2.53E-07	1.60E-07	0.00E+00	7.34E-08	0.00E+00	4.12E-07	0.00E+00	0.00E+00	1.15E-08	0.00E+00	4.61E-08	0.00E+00
IRP	kBq U235	9.97E-01	1.21E-02	5.79E-02	0.00E+00	7.65E-02	0.00E+00	5.39E-01	0.00E+00	0.00E+00	1.25E-03	0.00E+00	9.22E-03	0.00E+00
ETP-fw	CTUe	1.07E+02	3.03E+01	1.37E+01	0.00E+00	4.32E+01	0.00E+00	9.00E+01	0.00E+00	0.00E+00	3.12E+00	0.00E+00	2.57E+01	0.00E+00
HTP-c	CTUh	3.50E-09	7.26E-10	1.33E-09	0.00E+00	9.39E-10	0.00E+00	2.88E-09	0.00E+00	0.00E+00	5.76E-11	0.00E+00	1.37E-10	0.00E+00
HTP-nc	CTUh	1.05E-07	1.52E-08	1.10E-08	0.00E+00	6.84E-08	0.00E+00	6.88E-08	0.00E+00	0.00E+00	1.58E-09	0.00E+00	5.35E-09	0.00E+00
LU	Pt	3.67E+01	5.99E+00	3.42E+00	0.00E+00	2.56E+00	0.00E+00	2.37E+01	0.00E+00	0.00E+00	6.42E-01	0.00E+00	6.54E-01	0.00E+00



ENVIRONMENTAL PRODUCT DECLARATION

According to ISO 14025:2006 and EN 15804+A2

4. Trex Select®

Impact Category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5-B7	C1	C2	C3	C4	D
Environmental Impact Indicators														
GWP-total	kg CO ₂ eq.	1.56E+01	3.03E+00	1.36E+00	0.00E+00	1.73E+00	0.00E+00	2.50E+01	0.00E+00	0.00E+00	3.08E-01	0.00E+00	1.56E+00	0.00E+00
GWP-fossil	kg CO ₂ eq.	1.67E+01	3.03E+00	1.30E+00	0.00E+00	1.73E+00	0.00E+00	2.49E+01	0.00E+00	0.00E+00	3.08E-01	0.00E+00	5.31E-01	0.00E+00
GWP-biogenic	kg CO ₂ eq.	-1.08E+00	0.00E+00	5.30E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E+00	0.00E+00
GWP-luluc	kg CO ₂ eq.	4.11E-02	1.53E-03	1.51E-03	0.00E+00	1.60E-03	0.00E+00	5.11E-02	0.00E+00	0.00E+00	1.63E-04	0.00E+00	3.75E-04	0.00E+00
ODP	kg CFC 11 eq.	2.97E-11	7.09E-13	9.28E-12	0.00E+00	8.77E-12	0.00E+00	4.70E-11	0.00E+00	0.00E+00	7.29E-14	0.00E+00	1.36E-12	0.00E+00
AP	mol H ⁺ eq.	3.26E-02	1.91E-02	1.02E-02	0.00E+00	4.24E-03	0.00E+00	7.64E-02	0.00E+00	0.00E+00	9.52E-04	0.00E+00	4.08E-03	0.00E+00
EP-freshwater	kg P eq.	3.03E-05	5.24E-06	2.99E-05	0.00E+00	1.31E-04	0.00E+00	4.25E-04	0.00E+00	0.00E+00	5.59E-07	0.00E+00	3.06E-04	0.00E+00
EP-marine	kg N eq.	1.25E-02	8.33E-03	8.58E-04	0.00E+00	1.49E-03	0.00E+00	2.69E-02	0.00E+00	0.00E+00	4.63E-04	0.00E+00	1.43E-03	0.00E+00
EP-terrestrial	mol N eq.	1.36E-01	9.13E-02	9.55E-03	0.00E+00	1.11E-02	0.00E+00	2.91E-01	0.00E+00	0.00E+00	5.05E-03	0.00E+00	1.29E-02	0.00E+00
POCP	kg NMVOC eq.	3.30E-02	1.78E-02	2.80E-03	0.00E+00	3.01E-03	0.00E+00	6.58E-02	0.00E+00	0.00E+00	9.13E-04	0.00E+00	3.00E-03	0.00E+00
ADP-minerals & metals	kg Sb eq.	2.59E-06	4.64E-07	4.72E-05	0.00E+00	1.41E-07	0.00E+00	5.75E-05	0.00E+00	0.00E+00	4.75E-08	0.00E+00	6.11E-08	0.00E+00
ADP-fossil	MJ	2.93E+02	3.88E+01	1.56E+01	0.00E+00	2.85E+01	0.00E+00	4.11E+02	0.00E+00	0.00E+00	3.97E+00	0.00E+00	8.03E+00	0.00E+00
WDP	m ³	3.86E+00	4.12E-02	2.30E-01	0.00E+00	3.80E+02	0.00E+00	4.76E+00	0.00E+00	0.00E+00	4.35E-03	0.00E+00	2.70E-02	0.00E+00
Resource Use Indicators														
PERE	MJ	3.94E+01	1.56E+00	4.19E+00	0.00E+00	4.39E+00	0.00E+00	5.31E+01	0.00E+00	0.00E+00	1.65E-01	0.00E+00	1.14E+00	0.00E+00
PERM	MJ	1.19E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	5.12E+01	1.56E+00	4.19E+00	0.00E+00	4.39E+00	0.00E+00	6.66E+01	0.00E+00	0.00E+00	1.65E-01	0.00E+00	1.14E+00	0.00E+00
PENRE	MJ	2.42E+02	3.88E+01	1.56E+01	0.00E+00	2.85E+01	0.00E+00	3.53E+02	0.00E+00	0.00E+00	3.97E+00	0.00E+00	8.03E+00	0.00E+00
PENRM	MJ	5.06E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	2.93E+02	3.88E+01	1.56E+01	0.00E+00	2.85E+01	0.00E+00	4.11E+02	0.00E+00	0.00E+00	3.97E+00	0.00E+00	8.03E+00	0.00E+00
SM	kg	2.25E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	1.17E-01	1.69E-03	6.54E-03	0.00E+00	1.13E+01	0.00E+00	1.44E-01	0.00E+00	0.00E+00	1.78E-04	0.00E+00	9.59E-04	0.00E+00



ENVIRONMENTAL PRODUCT DECLARATION

According to ISO 14025:2006 and EN 15804+A2

Waste and Output Flow Indicators														
HWD	kg	9.71E-08	6.44E-09	7.47E-09	0.00E+00	9.53E-09	0.00E+00	1.30E-07	0.00E+00	0.00E+00	6.59E-10	0.00E+00	1.90E-09	0.00E+00
NHWD	kg	5.22E-01	3.91E-03	1.27E+00	0.00E+00	3.50E+00	0.00E+00	2.85E+01	0.00E+00	0.00E+00	4.06E-04	0.00E+00	2.31E+01	0.00E+00
RWD	kg	1.11E-02	1.33E-04	4.69E-04	0.00E+00	8.14E-04	0.00E+00	1.34E-02	0.00E+00	0.00E+00	1.36E-05	0.00E+00	8.91E-05	0.00E+00
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	kg	3.06E+00	0.00E+00	5.76E-03	0.00E+00	0.00E+00	0.00E+00	3.50E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Optional Indicators														
PM	Disease incidence	3.25E-07	2.32E-07	1.47E-07	0.00E+00	7.34E-08	0.00E+00	8.64E-07	0.00E+00	0.00E+00	1.05E-08	0.00E+00	4.22E-08	0.00E+00
IRP	kBq U235	9.14E-01	1.11E-02	5.31E-02	0.00E+00	7.65E-02	0.00E+00	1.13E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	8.45E-03	0.00E+00
ETP-fw	CTUe	9.83E+01	2.77E+01	1.25E+01	0.00E+00	4.32E+01	0.00E+00	1.89E+02	0.00E+00	0.00E+00	2.86E+00	0.00E+00	2.36E+01	0.00E+00
HTP-c	CTUh	3.21E-09	6.65E-10	1.22E-09	0.00E+00	9.39E-10	0.00E+00	6.03E-09	0.00E+00	0.00E+00	5.29E-11	0.00E+00	1.25E-10	0.00E+00
HTP-nc	CTUh	9.59E-08	1.39E-08	1.01E-08	0.00E+00	6.84E-08	0.00E+00	1.44E-07	0.00E+00	0.00E+00	1.45E-09	0.00E+00	4.91E-09	0.00E+00
LU	Pt	3.37E+01	5.50E+00	3.14E+00	0.00E+00	2.56E+00	0.00E+00	4.97E+01	0.00E+00	0.00E+00	5.89E-01	0.00E+00	6.00E-01	0.00E+00



5. Trex Enhance®

Impact Category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5-B7	C1	C2	C3	C4	D
Environmental Impact Indicators														
GWP-total	kg CO ₂ eq.	1.35E+01	2.62E+00	1.18E+00	0.00E+00	1.73E+00	0.00E+00	3.78E+01	0.00E+00	0.00E+00	2.66E-01	0.00E+00	1.34E+00	0.00E+00
GWP-fossil	kg CO ₂ eq.	1.44E+01	2.62E+00	1.13E+00	0.00E+00	1.73E+00	0.00E+00	3.77E+01	0.00E+00	0.00E+00	2.66E-01	0.00E+00	4.59E-01	0.00E+00
GWP-biogenic	kg CO ₂ eq.	-9.32E-01	0.00E+00	5.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-01	0.00E+00
GWP-luluc	kg CO ₂ eq.	3.55E-02	1.32E-03	1.30E-03	0.00E+00	1.60E-03	0.00E+00	7.72E-02	0.00E+00	0.00E+00	1.41E-04	0.00E+00	3.23E-04	0.00E+00
ODP	kg CFC 11 eq.	2.57E-11	6.12E-13	8.02E-12	0.00E+00	8.77E-12	0.00E+00	7.11E-11	0.00E+00	0.00E+00	6.30E-14	0.00E+00	1.17E-12	0.00E+00
AP	mol H ⁺ eq.	2.81E-02	1.65E-02	8.78E-03	0.00E+00	4.24E-03	0.00E+00	1.16E-01	0.00E+00	0.00E+00	8.22E-04	0.00E+00	3.52E-03	0.00E+00
EP-freshwater	kg P eq.	2.62E-05	4.53E-06	2.58E-05	0.00E+00	1.31E-04	0.00E+00	6.42E-04	0.00E+00	0.00E+00	4.83E-07	0.00E+00	2.64E-04	0.00E+00
EP-marine	kg N eq.	1.08E-02	7.20E-03	7.41E-04	0.00E+00	1.49E-03	0.00E+00	4.07E-02	0.00E+00	0.00E+00	3.99E-04	0.00E+00	1.23E-03	0.00E+00
EP-terrestrial	mol N eq.	1.17E-01	7.88E-02	8.25E-03	0.00E+00	1.11E-02	0.00E+00	4.40E-01	0.00E+00	0.00E+00	4.36E-03	0.00E+00	1.11E-02	0.00E+00
POCP	kg NMVOC eq.	2.85E-02	1.54E-02	2.42E-03	0.00E+00	3.01E-03	0.00E+00	9.94E-02	0.00E+00	0.00E+00	7.89E-04	0.00E+00	2.59E-03	0.00E+00
ADP-minerals & metals	kg Sb eq.	2.23E-06	4.01E-07	4.07E-05	0.00E+00	1.41E-07	0.00E+00	8.69E-05	0.00E+00	0.00E+00	4.10E-08	0.00E+00	5.27E-08	0.00E+00
ADP-fossil	MJ	2.53E+02	3.35E+01	1.35E+01	0.00E+00	2.85E+01	0.00E+00	6.20E+02	0.00E+00	0.00E+00	3.43E+00	0.00E+00	6.93E+00	0.00E+00
WDP	m ³	3.33E+00	3.56E-02	1.99E-01	0.00E+00	3.80E+02	0.00E+00	7.19E+00	0.00E+00	0.00E+00	3.76E-03	0.00E+00	2.33E-02	0.00E+00
Resource Use Indicators														
PERE	MJ	3.40E+01	1.35E+00	3.62E+00	0.00E+00	4.39E+00	0.00E+00	8.02E+01	0.00E+00	0.00E+00	1.43E-01	0.00E+00	9.80E-01	0.00E+00
PERM	MJ	1.02E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	4.43E+01	1.35E+00	3.62E+00	0.00E+00	4.39E+00	0.00E+00	1.01E+02	0.00E+00	0.00E+00	1.43E-01	0.00E+00	9.80E-01	0.00E+00
PENRE	MJ	2.09E+02	3.35E+01	1.35E+01	0.00E+00	2.85E+01	0.00E+00	5.33E+02	0.00E+00	0.00E+00	3.43E+00	0.00E+00	6.93E+00	0.00E+00
PENRM	MJ	4.37E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	2.53E+02	3.35E+01	1.35E+01	0.00E+00	2.85E+01	0.00E+00	6.20E+02	0.00E+00	0.00E+00	3.43E+00	0.00E+00	6.93E+00	0.00E+00
SM	kg	1.94E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	1.01E-01	1.46E-03	5.65E-03	0.00E+00	1.13E+01	0.00E+00	2.18E-01	0.00E+00	0.00E+00	1.54E-04	0.00E+00	8.28E-04	0.00E+00



ENVIRONMENTAL PRODUCT DECLARATION

According to ISO 14025:2006 and EN 15804+A2

Waste and Output Flow Indicators														
HWD	kg	8.39E-08	5.56E-09	6.45E-09	0.00E+00	9.53E-09	0.00E+00	1.96E-07	0.00E+00	0.00E+00	5.69E-10	0.00E+00	1.64E-09	0.00E+00
NHWD	kg	4.51E-01	3.37E-03	1.10E+00	0.00E+00	3.50E+00	0.00E+00	4.31E+01	0.00E+00	0.00E+00	3.51E-04	0.00E+00	2.00E+01	0.00E+00
RWD	kg	9.55E-03	1.15E-04	4.05E-04	0.00E+00	8.14E-04	0.00E+00	2.03E-02	0.00E+00	0.00E+00	1.18E-05	0.00E+00	7.70E-05	0.00E+00
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	kg	2.64E+00	0.00E+00	4.97E-03	0.00E+00	0.00E+00	0.00E+00	5.29E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Optional Indicators														
PM	Disease incidence	2.80E-07	2.00E-07	1.27E-07	0.00E+00	7.34E-08	0.00E+00	1.31E-06	0.00E+00	0.00E+00	9.10E-09	0.00E+00	3.65E-08	0.00E+00
IRP	kBq U235	7.89E-01	9.61E-03	4.59E-02	0.00E+00	7.65E-02	0.00E+00	1.71E+00	0.00E+00	0.00E+00	9.87E-04	0.00E+00	7.30E-03	0.00E+00
ETP-fw	CTUe	8.49E+01	2.40E+01	1.08E+01	0.00E+00	4.32E+01	0.00E+00	2.85E+02	0.00E+00	0.00E+00	2.47E+00	0.00E+00	2.03E+01	0.00E+00
HTP-c	CTUh	2.77E-09	5.75E-10	1.05E-09	0.00E+00	9.39E-10	0.00E+00	9.11E-09	0.00E+00	0.00E+00	4.56E-11	0.00E+00	1.08E-10	0.00E+00
HTP-nc	CTUh	8.28E-08	1.20E-08	8.72E-09	0.00E+00	6.84E-08	0.00E+00	2.18E-07	0.00E+00	0.00E+00	1.25E-09	0.00E+00	4.24E-09	0.00E+00
LU	Pt	2.91E+01	4.75E+00	2.71E+00	0.00E+00	2.56E+00	0.00E+00	7.51E+01	0.00E+00	0.00E+00	5.08E-01	0.00E+00	5.18E-01	0.00E+00

Disclaimers:

- ADP-Minerals, ADP-Fossil, WDP:** The results of this environmental impact indicator shall be used with care, as the uncertainties on these results are high or as there is limited experience with the indicator.
- IRP:** This impact category deals mainly with the eventual impact of low-dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure, nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon, and from some construction materials is also not measured by this indicator.
- ETP-fw, HTP-c, HTP-nc, SQP:** The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.



10.3 Biogenic Carbon Content in product and packaging per declared unit

Products	Unit/DU	Biogenic C in product	Biogenic C in packaging
Trex Signature	kg C	6.65	0.40
Trex Transcend Lineage	kg C	6.44	0.37
Trex Transcend	kg C	6.44	0.37
Trex Select	kg C	5.90	0.34
Trex Enhance	kg C	5.16	0.29

Note: 1 kg biogenic carbon is equivalent to 44/12 kg of CO₂

11.0 LCA Interpretation

For Global Warming Potential, the majority of the impacts are driven by production stage that includes raw material production, transportation and manufacturing, with a contribution varying from 23% to 47% across the products, and the replacement of the product, with a contribution of around 32% to 65%, primarily depending upon the product service life. Similarly, Acidification Potential, Ozone Depletion Potential, POCP and Abiotic Depletion Potential of fossil are also driven by production stage and replacement. The freshwater Eutrophication Potential is driven by product disposal, followed by manufacturing and replacement. This is due to the plastic waste sent to landfill that emits leachate, which fuels microbial growth that accelerates eutrophication in freshwater.

12.0 References

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