



## Trocellen Group LCA calculation result declaration

### Life Cycle Assessment Tool description

We are aware, that as part of the supply chain our responsibility is to share reliable data with our customers and partners to support industrywide decarbonization actions.

Trocellen Group has developed its own, customized LCA tool to measure our product portfolio related environmental emissions covering cradle-to-gate and end-of-life stages.

#### *Tool description:*

**Declared unit:** defined by the user of the Tool. It can be expressed in different units, such as kg, m<sup>2</sup>, m<sup>3</sup>, number of pieces, etc.

#### **References:**

*EN 15804:2012+A2:2019*

Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products

*ISO 14040:2006*

Environmental management – Life cycle assessment – Principles and framework

*ISO 14044:2006*

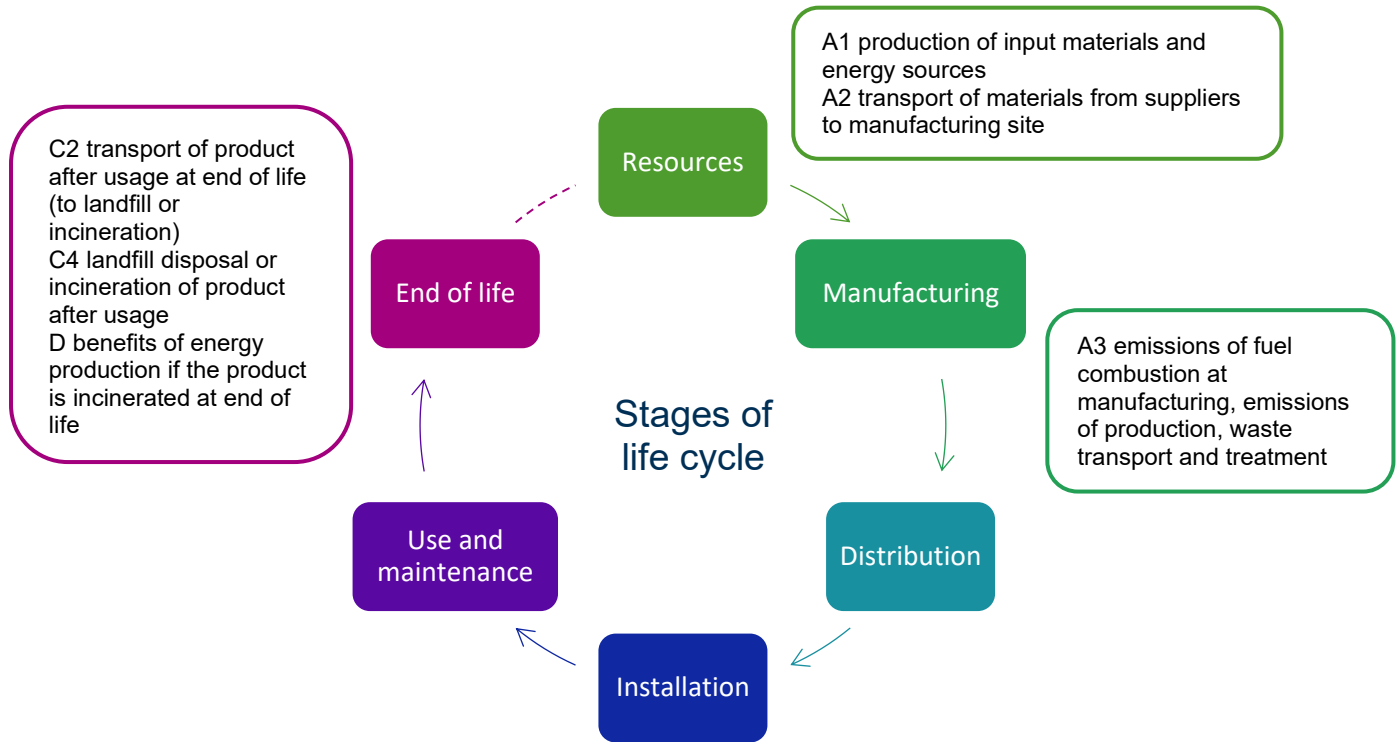
Environmental management – Life cycle assessment – Requirements and guidelines

#### **System boundaries:**

- A1 production of input materials and energy sources
- A2 transport of materials from suppliers to manufacturing site
- A3 emissions of fuel combustion at manufacturing, emissions of production, waste transport and treatment
- C2 transport of product after usage at end of life (to landfill or incineration)
- C4 landfill disposal or incineration of product after usage
- D benefits of energy production if the product is incinerated at end of life

#### *not included:*

- distribution, installation, use and maintenance.



**Impact categories:**

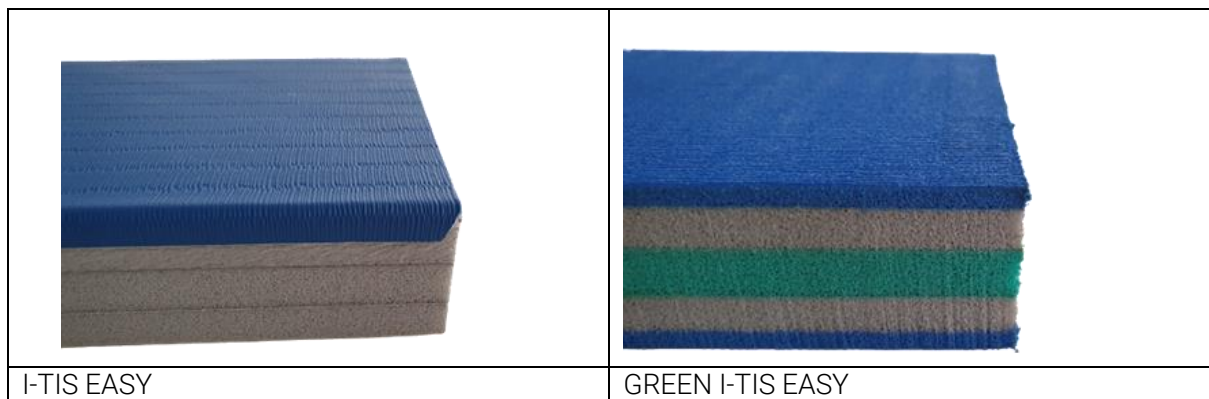
GWP total	Climate change - total
GWP fossil	Climate change - fossil
GWP biogenic	Climate change - biogenic
GWP luluc	Climate change - land use and land use change
ODP	Ozone depletion
AP	Acidification
EP freshwater	Eutrophication aquatic freshwater
EP marine	Eutrophication aquatic marine
EP terrestrial	Eutrophication terrestrial
POCP	Photochemical ozone formation
ADP mineral-metals	Depletion of abiotic resources - minerals and metals
ADP fossils	Depletion of abiotic resources - fossil fuels
WDP	Water use
PM	Particulate matter emission
IRP	Ionizing radiation, human health
ETP-fw	Eco-toxicity, freshwater
HTTP-c	Human toxicity, cancer effects
HTTP-nc	Human toxicity, non-cancer effects
SQP	Land use related impacts / Soil quality

## LCA results

Based on Trocellen Group LCA Tool

Calculated by: Alessandro Adami  
 Date of calculation: 16/02/2024  
 Plant: Trocellen Italia S.p.A.  
 LCA reference year: 2021  
 LCA Tool version: 3.0.2.

**Assumptions:** comparison of 2 different Trocellen ProGame I-TIS brand products



Functional unit: 1 m<sup>2</sup>

### Scenarios:

- Difference between the 2 product: the GREEN I-TIS EASY is made without the PVC on the surface and with a biobased foam layer in the core (green colored layer)
- Cradle to gate calculation: value refers to A1 – A3 stages

### Results:

Name	Category	Unit	Cradle to Gate Value	Reduction (%)
I-TIS EASY	GWP total	kg CO2 eq/ m <sup>2</sup>	36,90	-
GREEN I-TIS EASY	GWP total	kg CO2 eq/ m <sup>2</sup>	10,80	70

Based on Trocellen Group internal LCA calculations the I-TIS biobased green mat creates 70,7% decrease in the global warming potential (GWP).



Marianna Rideg-Piskóti  
Corporate Sustainability Manager



Paolo Florian  
Business Unit Manager



## Trocellen Group Sustainability Vision

We give responsible answers for future generations' needs. At every opportunity, we foster an environmentally-conscious mindset and solutions across our home & work, advanced mobility, and health, sports & wellbeing focus areas. We are dedicated to leading the way towards a more pleasant tomorrow through sustainable value chains, responsible business practices, and meaningful collaboration with our partners.