

ENVIRONMENTAL PRODUCT DECLARATION IN ACCORDANCE WITH EN 15804+A2 & ISO 14025 / ISO 21930

Fast Trak Track (FTT)



EPD HUB, EPD number HUB-0777

Published Date 24.10.2023, Last Updated 29.11.2023, valid until 24.10.2028

GENERAL INFORMATION

MANUFACTURER

Manufacturer	Gripple Ltd
Address	Norfolk Bridge Works, 11 Leveson Street, Sheffield, S4 7ER
Contact details	info@gripple.com
Website	www.gripple.com

EPD STANDARDS, SCOPE AND VERIFICATION

Program operator	EPD Hub, hub@epdhub.com
Reference standard	EN 15804+A2:2019 and ISO 14025
PCR	EPD Hub Core PCR version 1.0, 1 Feb 2022
Sector	Construction product
Category of EPD	Third party verified EPD
Scope of the EPD	Cradle to gate with options, A4-A5, and modules C1-C4, D
EPD author	Natasha Lyth, Gripple Ltd
EPD verification	Independent verification of this EPD and data, according to ISO 14025: <input type="checkbox"/> Internal certification <input checked="" type="checkbox"/> External verification
EPD verifier	Elma Avdyli, as an authorized verifier acting for EPD Hub Limited

The manufacturer has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programs may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804 and if they are not compared in a building context.

PRODUCT

Product name	Fast Trak Track (FTT)
Additional labels	FTT-200, FTT-300, FTT-400, FTT-500, FTT-600, FTT-700, FTT-800, FTT-900, FTT-1000, FTT-1100, FTT-1200, FTT-1300, FTT-1400, FTT-1500
Product reference	FTT-*
Place of production	Sheffield, UK
Period for data	April 2022 – April 2023
Averaging in EPD	No averaging
Variation in GWP-fossil for A1-A3	Not applicable

ENVIRONMENTAL DATA SUMMARY

Declared unit	1kg FTT
Declared unit mass	1 kg
GWP-fossil, A1-A3 (kgCO ₂ e)	3,57E0
GWP-total, A1-A3 (kgCO ₂ e)	2,6E0
Secondary material, inputs (%)	15.6
Secondary material, outputs (%)	95.0
Total energy use, A1-A3 (kWh)	13.7
Total water use, A1-A3 (m ³ e)	5,2E-2

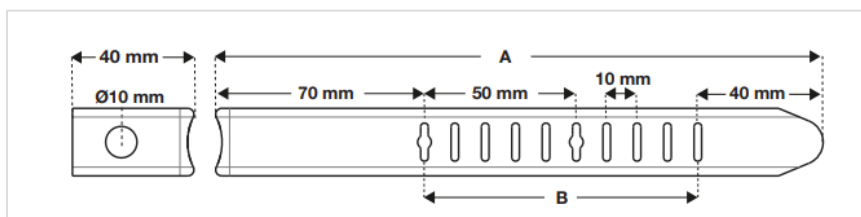
PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Gripple manufactures innovative solutions for the construction, agricultural and infrastructure sectors. Our innovative product designs, provide customers with faster, safer, and more cost-effective solutions than traditional engineered methods.

PRODUCT DESCRIPTION

Fast Trak is a prefabricated, trapeze bracket and track system, which enables efficient, flexible, and safe installation of electrical containment, ductwork, pipework, and other mechanical services.



Fast Trak is six times faster and safer to install than traditional suspension systems as the system removes the need to cut threaded rod on site. The bracket uses push-button cartridge technology to allow it to simply be moved up and down the tracks to accommodate changes in position during installation.

It offers even more versatility as the four-sided bracket provides suspension point on every face: ideal for installation of combined bracketry and multi-tiered configuration to accommodate additional services. Each bracket also has indicators at each end as a measurement guide when marking fixing points on the ceiling; M4 level markers on the tracks highlight 50 mm increments, so no levelling tools are required. The tracks also can be bent neatly under the bracket – so zero product waste.

Fast Trak is independently fire tested to F120 which confirms that the entire system meets the fire performance standards associated with BS EN 1363-1:2012.

The Fast Trak Track when used in conjunction with a Fast Trak Bracket represents the complete system, the Fast Trak Bracket EPDs are available on EPD Hub.

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass- %	Material origin
Metals	100	United Kingdom
Minerals	-	
Fossil materials	-	
Bio-based materials	-	

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	-
Biogenic carbon content in packaging, kg C	0.2666

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1kg FTT
Mass per declared unit	1 kg
Functional unit	-
Reference service life	-

SUBSTANCES, REACH - VERY HIGH CONCERN

The product does not contain any REACH SVHC substances in amounts greater than 0,1 % (1000 ppm).

PRODUCT LIFE-CYCLE

SYSTEM BOUNDARY

This EPD covers the life-cycle modules listed in the following table.

Product stage			Assembly stage		Use stage								End of life stage				Beyond the system boundaries		
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D			
x	x	x	x	x	MND	MND	MND	MND	MND	MND	MND	x	x	x	x	x			
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction	Transport	Waste processing	Disposal	Reuse	Recovery	Recycling	

Modules not declared = MND. Modules not relevant = MNR.

MANUFACTURING AND PACKAGING (A1-A3)

The environmental impacts considered for the product stage cover the manufacturing of raw materials used in the production as well as packaging materials and other ancillary materials. Also, fuels used by machines, and handling of waste formed in the production processes at the manufacturing facilities are included in this stage. The study also considers the material losses occurring during the manufacturing processes as well as losses during electricity transmission.

The main process used within the manufacturing of the Fast Trak Track is Roll Forming. Strip metal is passed through our Roll Form Strap machine, forming, and pressing it into the designed state. The process is highly efficient and allows for large volumes to be produced.

Production losses for all materials used in the manufacture of a Fast Trak Track have been considered within this EPD, any waste steel produced is sold for recycling.

A wooden pallet is used as a packaging material for transporting the product from the factory gate.

TRANSPORT AND INSTALLATION (A4-A5)

Transportation impacts occurred from final products delivery to construction site (A4) cover fuel direct exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions.

The transportation distance is defined according to the PCR. The transportation distance to site is an average distance from production site to building site. This average is 1,173.6km this distance reflects that the Fast Trak system is supplied internationally from the UK. Transportation does not cause losses as the product is packaged appropriately.

Shipping is done by a third party; empty returns are not considered as it is assumed that the return trip is used by the transportation company to serve the needs of other clients.

When Fast Trak Tracks are correctly installed in conjunction with Fast Trak Brackets, there is no A5 impact. Fast Trak Bracket EPDs are available on EPD Hub. Fixings and tools used to install the Fast Trak tracks are not considered within this life cycle assessment.

PRODUCT USE AND MAINTENANCE (B1-B7)

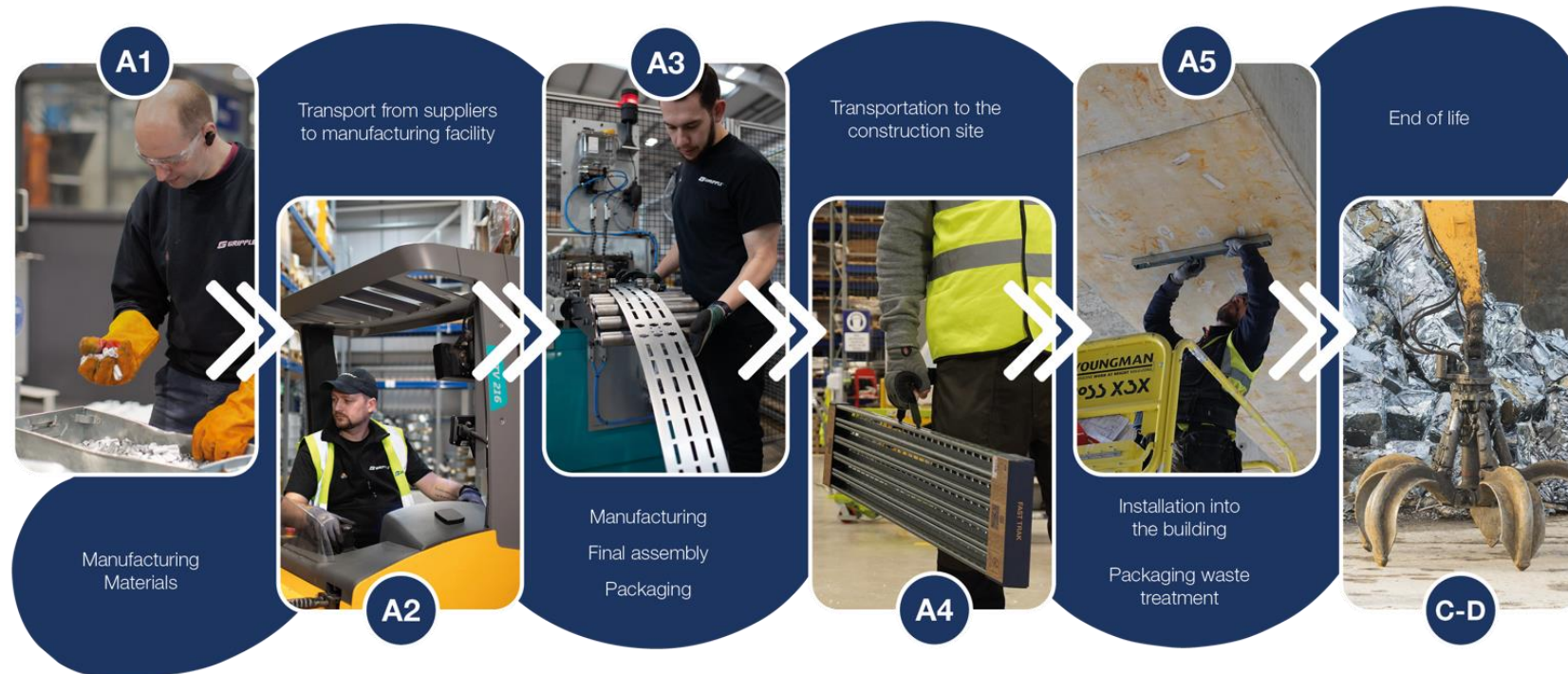
This EPD does not cover the use phase.

Air, soil, and water impacts during the use phase have not been studied.

PRODUCT END OF LIFE (C1-C4, D)

Demolition is assumed to consume 0,01 kWh/kg of product (O. Bozdag and M. Secer, 2007). The source of energy is diesel fuel used by construction machines (C1). It is assumed that 100% of the waste is collected and transported to the waste treatment centre. Transportation distance to treatment is assumed as 50 km and the transportation method is assumed to be lorry (C2). Approximately 95% of steel is assumed to be recycled based on World Steel Association, 2020 (C3). It is assumed that the remaining 5 % of steel is taken to landfill for final disposal (C4). Due to the recycling process, the end-of-life product is converted into recycled steel, while the wooden pallet is incinerated for energy recovery (D).

MANUFACTURING PROCESS



LIFE-CYCLE ASSESSMENT

CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the reference standard and the applied PCR. The study does not exclude any hazardous materials or substances. The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes, for which data is available for, are included in the calculation. There is no neglected unit process more than 1% of total mass or energy flows. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass.

Fixings and tools used to install the Fast Trak tracks are not considered within this life cycle assessment.

ALLOCATION, ESTIMATES AND ASSUMPTIONS

Allocation is required if some material, energy, and waste data cannot be measured separately for the product under investigation. All allocations are done as per the reference standards and the applied PCR. In this study, allocation has been done in the following ways:

Data type	Allocation
Raw materials	No allocation
Packaging materials	Allocated by mass or volume
Ancillary materials	Allocated by mass or volume
Manufacturing energy and waste	Allocated by mass or volume

AVERAGES AND VARIABILITY

Type of average	No averaging
Averaging method	Not applicable
Variation in GWP-fossil for A1-A3	Not applicable

This EPD is product and factory specific and does not contain average calculations.

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. Ecoinvent and One Click LCA databases were used as sources of environmental data.

ENVIRONMENTAL IMPACT DATA

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – total ¹⁾	kg CO ₂ e	3,21E0	3,18E-2	-6,36E-1	2,6E0	1,7E-1	9,85E-1	MND	MND	MND	MND	MND	MND	MND	3,3E-3	4,55E-3	2,55E-2	2,64E-4	2,1E-1
GWP – fossil	kg CO ₂ e	3,2E0	3,17E-2	3,4E-1	3,57E0	1,7E-1	7,87E-3	MND	MND	MND	MND	MND	MND	MND	3,3E-3	4,54E-3	2,71E-2	2,63E-4	-1,87E0
GWP – biogenic	kg CO ₂ e	7,41E-3	7,85E-5	-9,77E-1	-9,7E-1	1,23E-4	9,78E-1	MND	MND	MND	MND	MND	MND	MND	9,17E-7	3,3E-6	-1,61E-3	5,22E-7	2,08E0
GWP – LULUC	kg CO ₂ e	2,31E-3	2,13E-5	7,43E-4	3,08E-3	5,11E-5	1,25E-5	MND	MND	MND	MND	MND	MND	MND	2,79E-7	1,37E-6	3,18E-5	7,82E-8	-1,95E-3
Ozone depletion pot.	kg CFC ₁₁ e	1,89E-7	6,16E-9	3,8E-8	2,34E-7	3,99E-8	1,07E-9	MND	MND	MND	MND	MND	MND	MND	7,12E-10	1,07E-9	3,31E-9	1,08E-10	-6,87E-8
Acidification potential	mol H ⁺ e	5,31E-2	1,86E-4	1,54E-3	5,48E-2	7,13E-4	3,99E-5	MND	MND	MND	MND	MND	MND	MND	3,45E-5	1,91E-5	3E-4	2,5E-6	-9,22E-3
EP-freshwater ²⁾	kg Pe	1,96E-4	6,84E-7	1,35E-5	2,1E-4	1,38E-6	5,63E-7	MND	MND	MND	MND	MND	MND	MND	1,33E-8	3,7E-8	1,57E-6	3,18E-9	-1,19E-4
EP-marine	kg Ne	4,43E-3	6,11E-5	3,59E-4	4,85E-3	2,15E-4	7,25E-6	MND	MND	MND	MND	MND	MND	MND	1,52E-5	5,75E-6	6,66E-5	8,61E-7	-1,84E-3
EP-terrestrial	mol Ne	2E-1	6,76E-4	4,1E-3	2,04E-1	2,37E-3	8,46E-5	MND	MND	MND	MND	MND	MND	MND	1,67E-4	6,35E-5	7,68E-4	9,48E-6	-2,08E-2
POCP (“smog”) ³⁾	kg NMVOCe	1,56E-2	1,96E-4	1,46E-3	1,73E-2	7,63E-4	2,43E-5	MND	MND	MND	MND	MND	MND	MND	4,59E-5	2,04E-5	2,1E-4	2,75E-6	-1E-2
ADP-minerals & metals ⁴⁾	kg Sbe	5,83E-3	5,81E-7	4,3E-6	5,84E-3	2,9E-6	6,6E-8	MND	MND	MND	MND	MND	MND	MND	5,03E-9	7,75E-8	1,33E-6	2,41E-9	-3,41E-5
ADP-fossil resources	MJ	3,5E1	4,77E-1	6,92E0	4,24E1	2,64E0	1,47E-1	MND	MND	MND	MND	MND	MND	MND	4,54E-2	7,07E-2	3,33E-1	7,36E-3	-1,57E1
Water use ⁵⁾	m ³ e depr.	1,92E0	3,06E-3	6,67E-2	1,99E0	9,83E-3	1,46E-3	MND	MND	MND	MND	MND	MND	MND	8,46E-5	2,63E-4	5,26E-3	3,4E-4	-8,56E-1

1) GWP = Global Warming Potential; 2) EP = Eutrophication potential. Required characterisation method and data are in kg P-eq. Multiply by 3,07 to get PO₄e; 3) POCP = Photochemical ozone formation; 4) ADP = Abiotic depletion potential; 5) EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

USE OF NATURAL RESOURCES

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy ⁸⁾	MJ	3,4E0	1,87E-2	3,58E0	7E0	3,33E-2	1,81E-2	MND	MND	MND	MND	MND	MND	MND	2,45E-4	8,9E-4	4,6E-2	5,95E-5	-1,08E1
Renew. PER as material	MJ	0E0	0E0	9,4E0	9,4E0	0E0	0E0	MND	MND	MND	MND	MND	MND	MND	0E0	0E0	0E0	0E0	-1,31E1
Total use of renew. PER	MJ	3,4E0	1,87E-2	1,3E1	1,64E1	3,33E-2	1,81E-2	MND	MND	MND	MND	MND	MND	MND	2,45E-4	8,9E-4	4,6E-2	5,95E-5	-2,39E1
Non-re. PER as energy	MJ	3,5E1	4,77E-1	6,92E0	4,24E1	2,64E0	1,47E-1	MND	MND	MND	MND	MND	MND	MND	4,54E-2	7,07E-2	3,33E-1	7,36E-3	-1,57E1
Non-re. PER as material	MJ	0E0	0E0	0E0	0E0	0E0	0E0	MND	MND	MND	MND	MND	MND	MND	0E0	0E0	0E0	0E0	0E0
Total use of non-re. PER	MJ	3,5E1	4,77E-1	6,92E0	4,24E1	2,64E0	1,47E-1	MND	MND	MND	MND	MND	MND	MND	4,54E-2	7,07E-2	3,33E-1	7,36E-3	-1,57E1
Secondary materials	kg	1,56E-1	0E0	4,16E-6	1,56E-1	0E0	0E0	MND	MND	MND	MND	MND	MND	MND	0E0	0E0	0E0	0E0	7,22E-1
Renew. secondary fuels	MJ	0E0	0E0	0E0	0E0	0E0	0E0	MND	MND	MND	MND	MND	MND	MND	0E0	0E0	0E0	0E0	0E0
Non-ren. secondary fuels	MJ	0E0	0E0	0E0	0E0	0E0	0E0	MND	MND	MND	MND	MND	MND	MND	0E0	0E0	0E0	0E0	0E0
Use of net fresh water	m ³	5,02E-2	1,22E-4	1,72E-3	5,2E-2	5,5E-4	4,15E-5	MND	MND	MND	MND	MND	MND	MND	4,01E-6	1,47E-5	1,41E-4	8,05E-6	-1,31E-2

8) PER = Primary energy resources.

END OF LIFE – WASTE

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	1,04E0	1,1E-3	2,19E-2	1,06E0	2,57E-3	4,26E-4	MND	MND	MND	MND	MND	MND	MND	4,88E-5	6,87E-5	0E0	6,87E-6	-7,02E-1
Non-hazardous waste	kg	1,14E1	5,37E-2	4,39E-1	1,19E1	2,84E-1	2,88E-2	MND	MND	MND	MND	MND	MND	MND	5,22E-4	7,6E-3	0E0	5E-2	-5,97E0
Radioactive waste	kg	7,28E-5	3,08E-6	3,66E-5	1,12E-4	1,81E-5	9,64E-7	MND	MND	MND	MND	MND	MND	MND	3,18E-7	4,85E-7	0E0	4,87E-8	-7,8E-6

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0E0	0E0	0E0	0E0	0E0	0E0	MND	MND	MND	MND	MND	MND	MND	0E0	0E0	0E0	0E0	0E0
Materials for recycling	kg	0E0	0E0	1,2E-1	1,2E-1	0E0	5,92E-1	MND	MND	MND	MND	MND	MND	MND	0E0	0E0	9,5E-1	0E0	0E0
Materials for energy rec	kg	0E0	0E0	0E0	0E0	0E0	0E0	MND	MND	MND	MND	MND	MND	MND	0E0	0E0	0E0	0E0	0E0
Exported energy	MJ	0E0	0E0	0E0	0E0	0E0	0E0	MND	MND	MND	MND	MND	MND	MND	0E0	0E0	0E0	0E0	0E0

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML / ISO 21930

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Global Warming Pot.	kg CO ₂ e	5,76E0	3,13E-2	3,32E-1	6,12E0	1,68E-1	7,77E-3	MND	MND	MND	MND	MND	MND	MND	3,27E-3	4,5E-3	2,65E-2	2,58E-4	-1,79E0
Ozone depletion Pot.	kg CFC ₁₁ e	1,77E-7	5,01E-9	3,62E-8	2,18E-7	3,17E-8	1,01E-9	MND	MND	MND	MND	MND	MND	MND	5,63E-10	8,49E-10	2,71E-9	8,59E-11	-5,93E-8
Acidification	kg SO ₂ e	4,5E-2	1,22E-4	1,18E-3	4,63E-2	3,46E-4	3E-5	MND	MND	MND	MND	MND	MND	MND	4,87E-6	9,25E-6	1,9E-4	1,04E-6	-7,49E-3
Eutrophication	kg PO ₄ ³ e	1,34E-2	3,72E-5	4,09E-4	1,38E-2	6,98E-5	1,82E-5	MND	MND	MND	MND	MND	MND	MND	8,57E-7	1,87E-6	7,32E-5	2,02E-7	-5,09E-3
POCP ("smog")	kg C ₂ H ₄ e	2,53E-3	5,34E-6	8,97E-5	2,62E-3	2,19E-5	1,35E-6	MND	MND	MND	MND	MND	MND	MND	5,01E-7	5,86E-7	8,82E-6	7,64E-8	-1,26E-3
ADP-elements	kg Sbe	5,83E-3	5,81E-7	4,3E-6	5,84E-3	2,9E-6	6,6E-8	MND	MND	MND	MND	MND	MND	MND	5,03E-9	7,75E-8	1,33E-6	2,41E-9	-3,41E-5
ADP-fossil	MJ	3,5E1	4,77E-1	6,92E0	4,24E1	2,64E0	1,47E-1	MND	MND	MND	MND	MND	MND	MND	4,54E-2	7,07E-2	3,33E-1	7,36E-3	-1,57E1

VERIFICATION STATEMENT

VERIFICATION PROCESS FOR THIS EPD

This EPD has been verified in accordance with ISO 14025 by an independent, third-party verifier by reviewing results, documents and compliancy with reference standard, ISO 14025 and ISO 14040/14044, following the process and checklists of the program operator for:

- This Environmental Product Declaration
- The Life-Cycle Assessment used in this EPD
- The digital background data for this EPD

Why does verification transparency matter? Read more online
This EPD has been generated by One Click LCA EPD generator, which has been verified and approved by the EPD Hub.

THIRD-PARTY VERIFICATION STATEMENT

I hereby confirm that, following detailed examination, I have not established any relevant deviations by the studied Environmental Product Declaration (EPD), its LCA and project report, in terms of the data collected and used in the LCA calculations, the way the LCA-based calculations have been carried out, the presentation of environmental data in the EPD, and other additional environmental information, as present with respect to the procedural and methodological requirements in ISO 14025:2010 and reference standard.

I confirm that the company-specific data has been examined as regards plausibility and consistency; the declaration owner is responsible for its factual integrity and legal compliance.

I confirm that I have sufficient knowledge and experience of construction products, this specific product category, the construction industry, relevant standards, and the geographical area of the EPD to carry out this verification.

I confirm my independence in my role as verifier; I have not been involved in the execution of the LCA or in the development of the declaration and have no conflicts of interest regarding this verification.

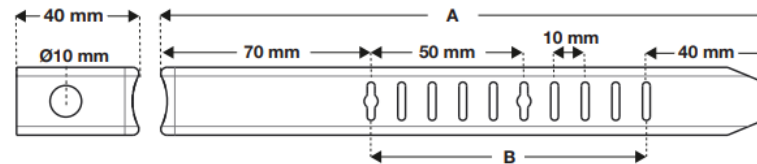
Elma Avdyli, as an authorized verifier acting for EPD Hub Limited
24.10.2023



ANNEX

FAST TRAK TRACK – DIMENSIONS

Track



Track	A (mm)	B (mm)
FTT-200	200	90
FTT-300	300	190
FTT-400	400	290
FTT-500	500	390
FTT-600	600	490
FTT-700	700	590
FTT-800	800	690
FTT-900	900	790
FTT-1000	1000	890
FTT-1100	1100	990
FTT-1200	1200	1090
FTT-1300	1300	1190
FTT-1400	1400	1290
FTT-1500	1500	1390