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GenieMat® FIT30

Fitness Flooring

## ENVIRONMENTAL PRODUCT DECLARATION

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



**EPD HUB, HUB-1406**

Published on 17.05.2024, last updated on 29.05.2024, valid until 17.05.2029.



Created with One Click LCA

GenieMat FIT30

## GENERAL INFORMATION

### MANUFACTURER

|                 |                                                      |
|-----------------|------------------------------------------------------|
| Manufacturer    | Pliteq Inc.                                          |
| Address         | 131 Royal Group Cres, Vaughan, Ontario, Canada       |
| Contact details | <a href="mailto:info@pliteq.com">info@pliteq.com</a> |
| Website         | <a href="https://pliteq.com">https://pliteq.com</a>  |

### EPD STANDARDS, SCOPE AND VERIFICATION

|                    |                                                                                                                                                                                     |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Program operator   | EPD Hub, <a href="mailto:hub@epdhub.com">hub@epdhub.com</a>                                                                                                                         |
| 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 modules C1-C4, D                                                                                                                                                |
| EPD author         | Aedan Callaghan                                                                                                                                                                     |
| EPD verification   | Independent verification of this EPD and data, according to ISO 14025:<br><input type="checkbox"/> Internal certification <input checked="" type="checkbox"/> External verification |
| EPD verifier       | E.A 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        | GenieMat FIT30           |
| Additional labels   | GenieMat FIT70           |
| Product reference   | -                        |
| Place of production | Vaughan, Ontario, Canada |
| Period for data     | June 2021 - June 2022    |

### ENVIRONMENTAL DATA SUMMARY

|                                 |           |
|---------------------------------|-----------|
| Declared unit                   | 1 m2      |
| Declared unit mass              | 25.757 kg |
| GWP-fossil, A1-A3 (kgCO2e)      | 1.08E+01  |
| GWP-total, A1-A3 (kgCO2e)       | 8.77E+00  |
| Secondary material, inputs (%)  | 94        |
| Secondary material, outputs (%) | 79        |
| Total energy use, A1-A3 (kWh)   | 41.7      |
| Total water use, A1-A3 (m3e)    | 1.97E-01  |

## PRODUCT AND MANUFACTURER

### ABOUT THE MANUFACTURER

Pliteq® is a leading innovator of acoustic products manufactured for the built environment from unusable materials diverted from landfill. Trusted by global architects, builders, engineers, contractors and acoustic consultants for products which are engineered for superior performance, backed by third-party test data, and recognized for their sustainable credentials, Pliteq is one of the preeminent global engineering resources.

### PRODUCT DESCRIPTION

GenieMat FIT is an all-in-one fitness floor made from recycled rubber, engineered to reduce structure-borne sound and vibration transmission in concrete, wood frame, and metal deck construction. GenieMat FIT floors dramatically reduce low-frequency impact noise in free-weight areas, under cardio equipment, and in fitness studios. Made from up to 94% recycled rubber content and backed by over 100 independent laboratory and field tests, GenieMat FIT30 applications include cardio studios, personal training areas, and machine areas.

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

### PRODUCT RAW MATERIAL MAIN COMPOSITION

| Raw material category | Amount, mass- % | Material origin |
|-----------------------|-----------------|-----------------|
| Metals                | -               | -               |
| Minerals              | -               | -               |
| Fossil materials      | 100%            | North America   |
| Bio-based materials   | -               | -               |

### BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

|                                            |       |
|--------------------------------------------|-------|
| Biogenic carbon content in product, kg C   | 0     |
| Biogenic carbon content in packaging, kg C | 0.406 |

### FUNCTIONAL UNIT AND SERVICE LIFE

|                        |                  |
|------------------------|------------------|
| Declared unit          | 1 m <sup>2</sup> |
| Mass per declared unit | 25.757 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 | Deconstr./demol.  | 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, 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 manufacturing process begins by mixing recycled rubber particles and a binder. This mixture is then dispensed into the moulding press. Pressure is applied and held during the curing time. The tiles are then ejected from the press. Plastic wrap is used around the exterior of the pallet. These packaging materials are all allocated over the number of declared units of material on each pallet.

### 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.

Travel distance to site is based on a weighted average of all of Pliteq's shipping. This includes trucking distances across North America and ocean freight for material supplied overseas. Travel distances for specific project LCAs can be calculated based on extract distance from Pliteq's factory in Vaughan Ontario Canada. It is assumed that the vehicle or container is operating at 100% capacity, with the return trip being the transportation company's responsibility and therefore not included in this EPD. It is also assumed that transportation does not result in any losses with proper packaging. The GenieMat FIT has a very simple installation method for fast and successful installs. First, a perimeter isolation strip is placed around the perimeter of the room. Second, the GenieMat FIT is unrolled and trimmed to length. The excess of the roll can be used to begin the next row.

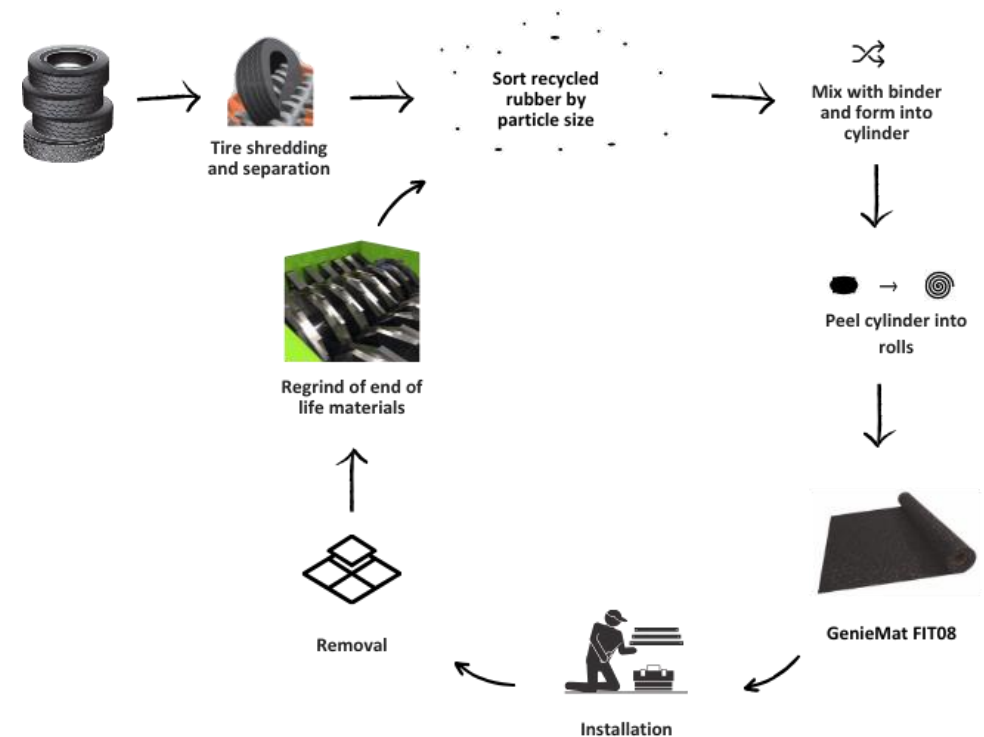
### PRODUCT USE AND MAINTENANCE (B1-B7)

The GenieMat FIT products are encapsulated during installation and do not remain exposed or require any maintenance, cleaning, etc. 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)

The end-of-life scenario depends upon the deconstruction method for the building site, where it is assumed that 100% of waste is collected as separate construction waste. It is also assumed that the consumption of energy and resources is negligible for disassembling the end-of-life products as all products can be recycled back into our manufacturing process and therefore demolition has zero impact. Typically, the construction demolition team sends all products to the nearest construction waste treatment plant, therefore a 50 km transportation distance is estimated. It is assumed that the method of transportation to do so is via lorry. The end-of-life product has the same weight as the initial product; therefore, no mass loss is considered during its lifetime. Once the product is received at the waste treatment plant, it is diverted from the landfill if it can be reused, recycled, or recovered for energy. As it has recycling potential through regrounding the product, it is assumed that 79% of the end-of-life product is reused or recycled and the remaining 21% remains at the landfill for final disposal. This rate of recovery is based on the 2021 average provided by Metro Vancouver for waste recycling rates from construction and demolition waste. While products that have takeback/ buyback programs will likely be on the higher end of the average the overall average is used until more data is available. Due to the closed-loop recycling potential of the GenieMat FIT, the end-of-life materials can be used as secondary materials. The GenieMat FIT can be re-ground back into crumb rubber and used as a raw material feed in the manufacturing process for new material. The slightly exothermic nature of the reaction during manufacturing replaces the need for heat addition that would often require fossil fuels. The treatment of all packaging materials including wooden pallets is assumed to be incinerated waste to generate electricity.

## MANUFACTURING PROCESS



## LIFE-CYCLE ASSESSMENT

### CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the EN 15804:2012+A2:2019 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.

### 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            | No allocation   |
| Ancillary materials            | NA              |
| Manufacturing energy and waste | Mass Allocation |

### 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 <sup>1)</sup>           | kg CO <sub>2</sub> e   | 8.84E+00 | 1.46E+00  | -1.53E+00 | 8.77E+00  | 2.75E+00 | 1.51E+00 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 1.17E-01 | 1.14E-01 | 2.85E-02 | -4.14E+00 |
| GWP – fossil                        | kg CO <sub>2</sub> e   | 8.64E+00 | 1.46E+00  | 6.53E-01  | 1.08E+01  | 2.74E+00 | 1.97E-02 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 1.17E-01 | 1.14E-01 | 2.84E-02 | -4.44E+00 |
| GWP – biogenic                      | kg CO <sub>2</sub> e   | 2.00E-01 | -1.52E-04 | -2.18E+00 | -1.99E+00 | 1.50E-03 | 1.49E+00 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 8.50E-05 | 3.17E-05 | 5.64E-05 | 2.97E-01  |
| GWP – LULUC                         | kg CO <sub>2</sub> e   | 5.30E-04 | 7.02E-04  | 1.99E-03  | 3.22E-03  | 1.01E-03 | 2.91E-05 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 3.52E-05 | 9.63E-06 | 8.44E-06 | -1.06E-04 |
| Ozone depletion pot.                | kg CFC <sub>11</sub> e | 4.21E-08 | 2.60E-07  | 5.55E-08  | 3.58E-07  | 6.29E-07 | 1.61E-09 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 2.75E-08 | 2.46E-08 | 1.17E-08 | 7.48E-09  |
| Acidification potential             | mol H <sup>+</sup> e   | 4.21E-02 | 1.31E-02  | 3.44E-03  | 5.86E-02  | 2.52E-02 | 9.44E-05 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 4.92E-04 | 1.19E-03 | 2.70E-04 | -2.24E-02 |
| EP-freshwater <sup>2)</sup>         | kg Pe                  | 4.78E-04 | 4.04E-05  | 2.95E-05  | 5.47E-04  | 2.06E-05 | 7.82E-07 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 9.52E-07 | 4.61E-07 | 3.44E-07 | -2.40E-04 |
| EP-marine                           | kg Ne                  | 1.35E-02 | 4.82E-03  | 8.32E-04  | 1.92E-02  | 6.72E-03 | 1.96E-05 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 1.48E-04 | 5.26E-04 | 9.29E-05 | -6.98E-03 |
| EP-terrestrial                      | mol Ne                 | 7.56E-02 | 5.32E-02  | 8.97E-03  | 1.38E-01  | 7.45E-02 | 2.17E-04 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 1.64E-03 | 5.77E-03 | 1.02E-03 | -3.79E-02 |
| POCP (“smog”) <sup>3)</sup>         | kg NMVOCe              | 2.62E-02 | 1.48E-02  | 3.69E-03  | 4.47E-02  | 2.13E-02 | 6.28E-05 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 5.26E-04 | 1.59E-03 | 2.97E-04 | -1.36E-02 |
| ADP-minerals & metals <sup>4)</sup> | kg Sbe                 | 6.74E-05 | 3.24E-05  | 9.85E-06  | 1.10E-04  | 4.22E-05 | 1.26E-07 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 2.00E-06 | 1.74E-07 | 2.60E-07 | -2.98E-05 |
| ADP-fossil resources                | MJ                     | 1.48E+02 | 2.19E+01  | 2.34E+01  | 1.93E+02  | 4.13E+01 | 2.51E-01 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 1.82E+00 | 1.57E+00 | 7.95E-01 | -8.11E+01 |
| Water use <sup>5)</sup>             | m <sup>3</sup> e depr. | 8.27E+00 | 1.86E-01  | 4.90E-01  | 8.95E+00  | 1.44E-01 | 3.55E-03 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 6.77E-03 | 2.93E-03 | 3.68E-02 | -3.77E+00 |

### 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 <sup>8)</sup> | MJ             | 5.60E+00 | 3.41E-01 | 6.36E+00 | 1.23E+01 | 4.84E-01 | 1.90E-02  | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 2.29E-02 | 8.49E-03 | 6.43E-03 | -3.14E+00 |
| Renew. PER as material             | MJ             | 0.00E+00 | 0.00E+00 | 2.13E+01 | 2.13E+01 | 0.00E+00 | -1.73E+00 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -7.52E-03 |
| Total use of renew. PER            | MJ             | 5.60E+00 | 3.41E-01 | 2.76E+01 | 3.36E+01 | 4.84E-01 | -1.71E+00 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 2.29E-02 | 8.49E-03 | 6.43E-03 | -3.15E+00 |
| Non-re. PER as energy              | MJ             | 9.65E+01 | 2.19E+01 | 1.94E+01 | 1.38E+02 | 4.13E+01 | 2.51E-01  | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 1.82E+00 | 1.57E+00 | 7.95E-01 | -4.91E+01 |
| Non-re. PER as material            | MJ             | 5.17E+01 | 0.00E+00 | 3.95E+00 | 5.57E+01 | 0.00E+00 | 0.00E+00  | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -3.22E+01 |
| Total use of non-re. PER           | MJ             | 1.48E+02 | 2.19E+01 | 2.34E+01 | 1.93E+02 | 4.13E+01 | 2.51E-01  | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 1.82E+00 | 1.57E+00 | 7.95E-01 | -8.13E+01 |
| Secondary materials                | kg             | 2.42E+01 | 0.00E+00 | 1.29E-02 | 2.42E+01 | 0.00E+00 | 0.00E+00  | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.16E-01  |
| Renew. secondary fuels             | MJ             | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
| Non-ren. secondary fuels           | MJ             | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
| Use of net fresh water             | m <sup>3</sup> | 1.76E-01 | 6.05E-03 | 1.52E-02 | 1.97E-01 | 7.90E-03 | 7.66E-05  | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 3.79E-04 | 1.39E-04 | 8.70E-04 | -9.29E-02 |

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   | 2.33E-01 | 7.69E-02 | 4.26E-02 | 3.53E-01 | 4.14E-02 | 1.42E-03 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 1.77E-03 | 0.00E+00 | 7.42E-04 | -1.13E-01 |
| Non-hazardous waste | kg   | 1.57E+00 | 4.11E+00 | 9.87E-01 | 6.66E+00 | 3.87E+00 | 3.98E-02 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 1.96E-01 | 0.00E+00 | 5.40E+00 | 2.42E-01  |
| Radioactive waste   | kg   | 1.74E-05 | 1.17E-04 | 2.12E-04 | 3.47E-04 | 2.85E-04 | 8.72E-07 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 1.25E-05 | 0.00E+00 | 5.26E-06 | 1.03E-05  |

## 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 | 0E0 | 0E0   | 0E0 | 6E-3    | MND | MND | MND | MND | MND | MND | MND | 0E0 | 0E0 | 2.03E1 | 0E0 | 0E0 |
| Materials for energy rec | kg   | 0E0 | 0E0 | 0E0 | 0E0   | 0E0 | 6.63E-1 | 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 <sub>2</sub> e               | 7.94E+00 | 1.44E+00 | 6.28E-01 | 1.00E+01 | 2.72E+00 | 1.93E-02 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 1.16E-01 | 1.13E-01 | 2.79E-02 | -4.04E+00 |
| Ozone depletion Pot. | kg CFC <sub>11</sub> e             | 4.41E-08 | 2.09E-07 | 4.70E-08 | 3.00E-07 | 4.99E-07 | 1.35E-09 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 2.19E-08 | 1.95E-08 | 9.28E-09 | 3.47E-09  |
| Acidification        | kg SO <sub>2</sub> e               | 3.55E-02 | 4.61E-03 | 2.66E-03 | 4.28E-02 | 1.72E-02 | 7.34E-05 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 2.38E-04 | 1.68E-04 | 1.13E-04 | -1.91E-02 |
| Eutrophication       | kg PO <sub>4</sub> <sup>3</sup> e  | 9.24E-03 | 1.44E-03 | 9.61E-04 | 1.16E-02 | 2.33E-03 | 3.28E-05 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 4.81E-05 | 2.96E-05 | 2.18E-05 | -3.56E-03 |
| POCP ("smog")        | kg C <sub>2</sub> H <sub>4</sub> e | 1.75E-03 | 2.29E-04 | 2.87E-04 | 2.27E-03 | 6.18E-04 | 3.34E-06 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 1.51E-05 | 1.73E-05 | 8.25E-06 | -9.81E-04 |
| ADP-elements         | kg Sbe                             | 6.74E-05 | 3.24E-05 | 9.85E-06 | 1.10E-04 | 4.22E-05 | 1.26E-07 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 2.00E-06 | 1.74E-07 | 2.60E-07 | -2.99E-05 |
| ADP-fossil           | MJ                                 | 1.48E+02 | 2.19E+01 | 2.34E+01 | 1.93E+02 | 4.13E+01 | 2.51E-01 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 1.82E+00 | 1.57E+00 | 7.95E-01 | -8.13E+01 |

## ENVIRONMENTAL IMPACTS – TRACI 2.1. / 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 <sub>2</sub> e   | 8.04E+00 | 1.44E+00 | 6.30E-01 | 1.01E+01 | 2.72E+00 | 1.93E-02 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 1.16E-01 | 1.13E-01 | 2.77E-02 | -4.10E+00 |
| Ozone Depletion     | kg CFC <sub>11</sub> e | 4.69E-08 | 2.77E-07 | 6.24E-08 | 3.86E-07 | 6.65E-07 | 1.85E-09 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 2.91E-08 | 2.60E-08 | 1.24E-08 | 9.96E-09  |
| Acidification       | kg SO <sub>2</sub> e   | 3.46E-02 | 1.21E-02 | 2.96E-03 | 4.96E-02 | 2.16E-02 | 8.16E-05 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 4.28E-04 | 1.09E-03 | 2.39E-04 | -1.83E-02 |
| Eutrophication      | kg Ne                  | 1.17E-02 | 1.21E-03 | 4.87E-04 | 1.34E-02 | 1.76E-03 | 9.97E-06 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 6.02E-05 | 9.64E-05 | 2.87E-05 | -6.09E-03 |
| POCP ("smog")       | kg O <sub>3</sub> e    | 4.16E-01 | 3.07E-01 | 5.08E-02 | 7.73E-01 | 4.27E-01 | 1.23E-03 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 9.39E-03 | 3.35E-02 | 5.91E-03 | -2.09E-01 |
| ADP-fossil          | MJ                     | 1.86E+01 | 2.56E+00 | 1.66E+00 | 2.29E+01 | 5.95E+00 | 2.05E-02 | MND | MND | MND | MND | MND | MND | MND | 0.00E+00 | 2.61E-01 | 2.32E-01 | 1.15E-01 | -1.04E+01 |

## APPENDIX – CONVERSION TABLE FOR ALTERNATIVE THICKNESS

This EPD is calculated for GenieMat FIT30 which has a thickness of 30mm. The GenieMat product line also has GenieMat FIT70. Based on the standardization of raw materials and manufacturing process, the calculations have been scaled for the thickness of GenieMat FIT70 as per the calculation completed for GenieMat FIT30 and detailed above. The correlation between the material and energy inputs to calculate the A1-A5 data is linear. Therefore, to calculate A1-A5 values for a different thickness, apply the percentages in the table below to the A1-A5 number shown within this document.

| Conversion Factor |                |        |      |        |        |        |      |
|-------------------|----------------|--------|------|--------|--------|--------|------|
| Products          | Thickness (mm) | A1     | A2   | A3     | A1-A3  | A4     | A5   |
| GenieMat FIT70    | 70             | 176.5% | 176% | 181.7% | 175.6% | 269.1% | 245% |

## 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  
17.05.2024

