ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A1

| Owner of the Declaration | modulyss® |
|--------------------------|--------------------------------------|
| Programme holder | Institut Bauen und Umwelt e.V. (IBU) |
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| Issue date | 08/07/2021 |
| Valid to | 07/07/2026 |

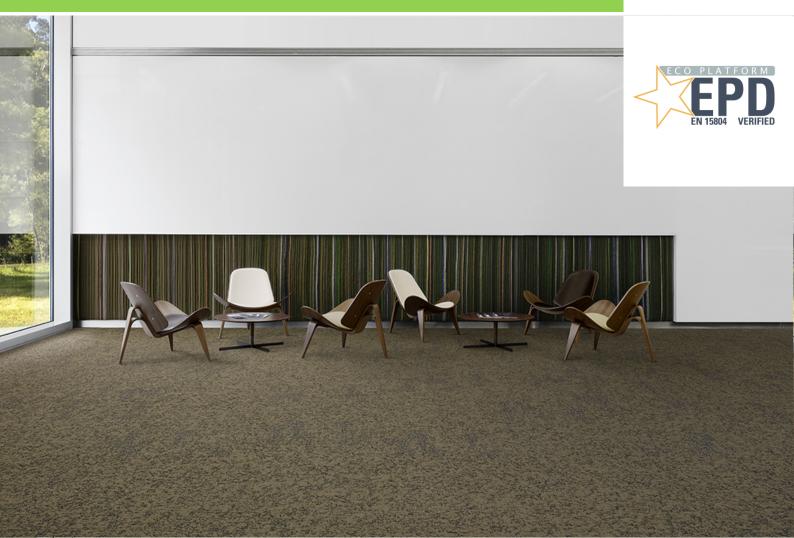
Tufted carpet tiles

with a maximum total pile weight of 1300 g/m², a pile material of 100% regenerated polyamide 6, ecoBack or comfortBack^{eco} backing

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General Information

modulyss®

Programme holder

IBU – Institut Bauen und Umwelt e.V. Panoramastr. 1 10178 Berlin Germany

Declaration number

EPD-MOD-20210149-CBC1-EN

This declaration is based on the product category rules:

Floor coverings, 02/2018 (PCR checked and approved by the SVR)

Issue date

08/07/2021

Valid to 07/07/2026

Man liten

Dipl. Ing. Hans Peters (chairman of Institut Bauen und Umwelt e.V.)

Dr. Alexander Röder (Managing Director Institut Bauen und Umwelt e.V.))

Product

Product description/Product definition

Tufted carpet tiles having a surface pile of 100% regenerated polyamide 6 and an ecoBack or comfortBack^{eco} backing.

The colour of the carpet is generated either by solution-dyed yarn or aqueous dyeing methods. The total recycled content amounts to at least 62% with a total pile weight of 1300 g/m² and a comfortBack^{eco} backing and at least 59% with a total pile weight of 1300 g/m² and an ecoBack backing.

Tufted carpet tiles

max. total pile weight 1300 g/m² 100% regenerated PA 6, ecoBack or comfortBack^{eco} backing

Owner of the declaration

modulyss Zevensterrestraat 21 9240 Zele Belgium

Declared product / declared unit

1 m² tufted carpet tiles with a surface pile of 100% regenerated PA 6 and an ecoBack or comfortBack^{eco} backing.

Scope:

The manufacturer declaration applies to modular carpet tiles with ecoBack or comfortBack^{eco}, a pile material of PA 6 with 100% recycled content and a maximum total pile weight of 1300 g/m². The products are produced in Zele, Belgium

LCA results for products with a maximum total pile weight of 500 g/m² can be taken from the corresponding tables of the annexe. Specific data for every product within the declared group of products in relation to its total pile weight can be calculated by using equation 1 given in the annexe (see annexe chapter: 'General Information on the annexe'). The declaration is only valid in conjunction with a valid *GUT-PRODIS* license of the product.

The owner of the declaration shall be liable for the underlying information and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

The EPD was created according to the specifications of *EN* 15804+A1. In the following, the standard will be simplified as *EN* 15804.

Verification

The standard *EN 15804* serves as the core PCR Independent verification of the declaration and data

according to ISO 14025:2010

internally x externally

Schindle

Angela Schindler (Independent verifier)

The declaration applies to a group of products with a maximum total pile weight of 1300 g/m². LCA results for products with a maximum total pile weight of 500 g/m² can be taken from the corresponding tables of the annexe. Results for specific products with any other total pile weight can be calculated by using equation 1 given in the annexe (see annexe chapter: 'General Information on the annexe').

For the placing on the market of the product in the European Union/European Free Trade Association



(EU/EFTA) (with the exception of Switzerland) *Regulation (EU) No. 305/2011* Construction Product Regulation (CPR) applies. The product needs a Declaration of Performance (DoP) taking into consideration *DIN EN 14041: 2018-05*, Resilient, textile and laminate floor coverings - Essential characteristics and the CE-marking. The DoP of the product can be found on the manufacturer's technical information section. For the application and use of the product the respective national provisions apply.

Application

According to the use class as defined in *EN 1307* the products can be used in professional areas. The use class can be found on the technical data sheet of the product.

Technical Data

| Name | Value | Unit |
|-------------------|----------------------------------|------------------|
| Type of | Tufted tiles, solution dyed yarn | |
| manufacture | or aqueous dyeing methods | - |
| Product Form | Tiles 50 cm x 50 cm | - |
| Secondary | ecoBack or comfortBackeco | |
| backing | ecoback of cominitibackeeo | - |
| Yarn type | 100% regenerated polyamide 6 | - |
| Total pile weight | max. 1300 | g/m² |
| Total carpet | max. 5000 | alm ² |
| weight | max. 5000 | g/m- |

Performance data of the product in accordance with the declaration of performance with respect to its essential characteristics according to *EN 14041: 2018-05*, Resilient, textile and laminate floor coverings - Essential characteristics.

Additional product properties in accordance with *EN* 1307 can be found on the Product Information System *PRODIS* using the *PRODIS* registration number of the product (www.pro-dis.info) or on the manufacturer's technical information section (www.modulyss.com).

LCA: Calculation rules

Declared Unit

| Name | Value | Unit |
|---------------------------|-------|-------------------|
| Declared unit | 1 | m ² |
| Conversion factor to 1 kg | 5 | kg/m ² |

The declared unit refers to 1 m² produced textile floor covering. Output of module A5 'Assembly' is 1 m² installed textile floor covering.

System boundary

Type of EPD: Cradle-to-grave

System boundaries of modules A, B, C, D:

A1-A3 Production:

Energy supply and production of the basic material, processing of secondary material, auxiliary material, transport of the material to the manufacturing site, emissions, waste water treatment, packaging material

Base materials/Ancillary materials

| Name | Value | Unit |
|------------------------|-------|------|
| Polyamide 6 | 26,0 | % |
| Polyester | 10,8 | % |
| Polypropylene | 0.6 | % |
| Limestone | 32,8 | % |
| Aluminiumhydroxid e | 10,1 | % |
| SBR-latex | 9,8 | % |
| Polyolefin | 8,8 | % |
| Glass fibre | 0,2 | % |
| Additives | 0,8 | % |

This product contains substances listed in the *ECHA candidate list* (16.01.2020) or other carcinogenic, mutagenic and reprotoxic (CMR) substances in categories 1A or 1B which are not on the candidate list exceeding 0.1 percentage by mass: no The products are registered in the *GUT-PRODIS* Information System. The *PRODIS* system ensures the compliance with limitations of various chemicals and Volatile Organic Compound (VOC)-emissions and a ban on the use of all substances that are listed as 'Substances of Very High Concern' (SVHC) under *REACH.*

Reference service life

A calculation of the reference service life according to *ISO 15686* is not possible.

The service life of textile floor coverings strongly depends on the correct installation taking into account the declared use classification and the adherence to cleaning and maintenance instructions. A minimum service life of 10 years can be assumed, technical service life can be considerably longer.

and waste processing up to the landfill disposal of residual waste (except radioactive waste). Benefits for generated electricity and steam due to the incineration of production waste are aggregated.

A4 Transport:

Transport of the packed textile floor covering from factory gate to the place of installation.

A5 Installation:

Installation of the textile floor covering, processing of installation waste and packaging waste up to the landfill disposal of residual waste (except radioactive waste), the production of the amount of carpet that occurs as installation waste including its transport to the place of installation.

Generated electricity and steam due to the incineration of waste are listed in the result table as exported energy.

Preparing of the floor and auxiliary materials (adhesives, fixing agents, PET connectors) are beyond the system boundaries and not taken into account.



B1 Use:

Indoor emissions during the use stage. After the first year, no product-related VOC emissions are relevant due to known VOC decay curves of the product.

B2 Maintenance:

Cleaning of the textile floor covering for a period of 1 year:

Vacuum cleaning – electricity supply Wet cleaning – electricity, water consumption, production of the cleaning agent, waste water treatment.

The declared values in this module have to be multiplied by the assumed service life of the floor covering in the building in question (see annexe, chapter 'General information on use stage').

<u>B3 - B7:</u>

The modules are not relevant and therefore not declared.

C1 De-construction:

The floor covering is de-constructed manually and no additional environmental impact is caused.

C2 Transport:

Transport of the carpet waste to a landfill, to the municipal waste incineration plant (MWI) or to the waste collection facility for recycling.

C3 Waste processing:

C3-1: Landfill disposal needs no waste processing. C3-2: Impact from waste incineration (plant with R1>0.6), generated electricity and steam are listed in the result table as exported energy.

LCA: Scenarios and additional technical information

The following information refer to the declared modules and are the basis for calculations or can be used for further calculations. The indicated values refer to the declared functional unit of all products with a total pile weight of 1300 g/m².

Transport to the construction site (A4)

| Name | Value | Unit |
|---|--------|---------|
| Litres of fuel (truck, EURO 0-6 mix) | 0.0117 | l/100km |
| Transport distance | 700 | km |
| Capacity utilisation (including empty runs) | 55 | % |

Installation in the building (A5)

| Name | Value | Unit |
|---------------|-------|------|
| Material loss | 0.15 | kg |
| | | |

Polyethene packaging waste and installation waste are considered to be incinerated in a municipal waste incineration plant. Cardboard packaging waste is considered to be recycled.

Preparation of the floor and auxiliaries (adhesives, fixing agents, PET connectors, etc.) are not taken into account.

C3-3: Collection of the carpet waste for recovery in the cement industry, waste processing (granulating), transport to the cement plant, emissions from the incineration.

C4 Disposal

C4-1: Impact from landfill disposal, C4-2: The carpet waste leaves the system in module C3-2, C4-3: The pre-processed carpet waste leaves the system in module C3-3

D Recycling potential:

D-A5: Benefits for generated energy due to incineration of packaging and installation waste (incineration plant with R1 > 0.6), D-1: Benefits for generated energy due to landfill disposal of carpet waste at the end-of-life, D-2: Benefits for generated energy due to incineration of carpet waste at the end-of-life (incineration plant

with R1 > 0.6), D-3: Benefits for saved fossil energy and saved inorganic material due to recovery of the carpet in a

Comparability

cement plant.

Basically, a comparison or an evaluation of EPD data is only possible if all the data sets to be compared were created according to *EN 15804* and the building context, respectively the product-specific characteristics of performance, are taken into account.

Background data are taken from the *GaBi database* 2021-1. Remaining data gaps are covered by the *ecoinvent* 3.6 database 2019

Maintenance (B2)

The values for cleaning refer to 1 m^2 floor covering used in commercial areas per year. Depending on the application based on *ISO 10874*, the technical service life recommended by the manufacturer and the anticipated strain on the floor by customers, the casespecific useful life can be established. The effects of Module B2 need to be calculated on the basis of this useful life in order to obtain the overall environmental impacts.

| Name | Value | Unit |
|-------------------------------------|-------|----------------|
| Maintenance cycle (wet cleaning) | 1.5 | 1/year |
| Maintenance cycle (vacuum cleaning) | 208 | 1/year |
| Water consumption (wet cleaning) | 0.004 | m ³ |
| Cleaning agent (wet cleaning) | 0.09 | kg |
| Electricity consumption | 0.314 | kWh |

Further information on cleaning and maintenance see www.modulyss.com

End of Life (C1-C4)

Three different end-of-life scenarios are declared and the results are indicated separately in module C. Each scenario is calculated as a 100% scenario.

Scenario 1: 100% landfill disposal Scenario 2: 100% municipal waste incineration (MWI)



with R1>0.6 Scenario 3: 100% recycling in the cement industry

If combinations of these scenarios have to be calculated this should be done according to the following scheme:

EOL-impact = x% impact (Scenario 1) + y% impact (Scenario 2) + z% impact (Scenario 3) with x% + y% + z% = 100%

| Name | Value | Unit |
|--|-------|------|
| Collected as mixed construction waste (scenario 1 and 2) | 5 | kg |
| Collected separately (scenario 3) | 5 | kg |
| Landfilling (scenario 1) | 5 | kg |
| Energy recovery (scenario 2) | 5 | kg |
| Energy recovery (scenario 3) | 2.844 | kg |
| Recycling (scenario 3) | 2.156 | kg |

Reuse, recovery and/or recycling potentials (D), relevant scenario information

Recovery or recycling potentials due to the three endof-life scenarios (module C) are indicated separately.

<u>Recycling in the cement industry (scenario 3)</u> VDZ e.V.

The organic material of the carpet is used as secondary fuel in a cement kiln. It mainly substitutes for lignite (61.9%), hard coal (26.8%) and petrol coke (11.3%).

The inorganic material is substantially integrated in the cement clinker and substitutes for original material input.



LCA: Results

The LCA results refer to all declared products with a maximum total pile weight of 1300 g/m². LCA results for products with a maximum total pile weight of 500 g/m² can be taken from the corresponding tables of the annexe. Results for specific products with any other total pile weight can be calculated by using equation 1 given in the annexe (see annexe chapter: 'General Information on the annexe'). The declared result figures in module B2 have to be multiplied by the assumed service life (in years) of the floor covering in the building under consideration. Information on non-relevant modules: Modules B3 - B7 are not relevant during the service life of the carpet. Modules C1, C3/1, C4/2 and C4/3 cause no additional impact (see chapter "LCA: Calculation rules" in this document). All these modules are declared and marked as 'modules not relevant/declared'. Module C2 represents the transport for scenarios 1, 2 and 3. Column D represents module D/A5. The calculations are based on the CML characterization factors (version August 2016).

| | | | | E SYST RELEV | | UND. | ARY (| X = | INCLU | JDED | N LCA | A; MN | D = N | IOD | ULEI | | DECLA | RED; |
|--|---|--|--|---|--|---|---|--|--|---|--|--|---|--|--|--|---|--|
| | | STAGE | CONS ⁻ ON PR | TRUCTI OCESS AGE | USE STAGE | | | | | | | | END OF LIFE STAGE | | | | LC BEYO SYS | FITS AND DADS ND THE STEM IDARIES |
| Raw material supply | Transport | Manufacturing | Transport from the gate to the site | Assembly | Use | Maintenance | Repair | Replacement | Refurbishment | Operational energy | use Operational water | use De-construction | demolition | Transport | Waste processing | Disposal | Reuse- Recoverv- | Recycling- potential |
| A1 | A2 | A3 | A4 | A5 | B1 | B2 | В3 | B4 | I B | 5 B(| B | 7 C | :1 | C2 | C3 | C4 | | D |
| X | Х | X | X | X | X | Х | MNR | MN | | | | | ND | Х | X | X | | Х |
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| Para | meter | · | Unit | A1-A3 | A4 | A5 | B | 1 | B2 | C2 | C3/2 | C3/3 | C4 | /1 | D | D/1 | D/2 | D/3 |
| G | WP | [kg | CO ₂ -Eq.] | 7.69E+0 |) 2.98E-1 | 6.55E | -1 0.00 | E+0 2 | 2.91E-1 | 1.66E-2 | 6.36E+0 | 6.42E+ | 0 3.40 | | 2.02E-2 | 0.00E+0 | _ | |
| 0 | DP | [kg C | FC11-Eq. |] 1.79E-8 | 5.21E-17 | 5.36E- | 10 0.008 | E+0 1 | .21E-8 | 2.90E-18 | 2.31E-15 | 3.20E-1 | 5 1.15E | -15 | 3.06E- 16 | 0.00E+0 | -6.25E- | -2.17E- 15 |
| | ٩P | | SO ₂ -Eq.] | 2.27E-2 | _ | | | | | 6.86E-5 | | | | | 2.33E-5 | 0.00E+0 | -4.79E-4 | -1.28E-3 |
| | EP DCP | | PO ₄) ³ -Eq.] thene-Eq. | | | 1.78E | -4 0.00E | E+0 3 | 3.17E-4 | 1.75E-5 | 1.10E-3 | 1.15E- | 3 9.56 | E-4 -3 | 3.20E-6 | 0.00E+0 |) -6.62E-5 | -1.69E-4 |
| | DPE | | g Sb-Eq.] | 7.42E-6 | _ | | | | | | | | | | | | -4.44E-3 | |
| | DPF | | [MJ] | | | | | | | | | | | | | | 0 -6.08E+0 | |
| Caption Eutrophication potential, POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non- fossil resources; ADPF = Abiotic depletion potential for fossil resources RESULTS OF THE LCA - INDICATORS TO DESCRIBE RESOURCE USE according to EN 15804+A1: 1 m ² floorcovering | | | | | | | | | | zone pho | tochemi | cal oxida | ants; AD |)PE = | n poter Abiotic | depletic | n potentia | l for non- |
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| Floor Parame PER PER PENF PENF PENF SM | eter E M T RM RM RT I | Init Unit [MJ] [MJ] [MJ] [MJ] | A1-A3 6.87E+1 3.90E-1 6.91E+1 1.26E+2 3.43E+1 1.61E+2 1.91E+0 | A - INDI 2.27E-1 0.00E+0 2.27E-1 4.07E+0 0.00E+0 4.07E+0 0.00E+0 | fossi CATO 2.49E+0 -3.90E-1 2.10E+0 5.28E+0 -2.15E-1 5.06E+0 5.73E-2 | B1 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E | rees; AD DES +0 1.2 +0 0.0 +0 1.2 +0 7.8 +0 0.0 +0 7.8 +0 0.0 | PF = / CRI 82 4E+0 0E+0 4E+0 6E+0 0E+0 0E+0 0E+0 | Abiotic c BE R 1.26E- 0.00E+ 1.26E- 2.27E- 0.00E+ 2.27E- 0.00E+ | Image: Case of the second se | CE U 1 7.99 +0 0.000 -1 7.99 +0 3.88 +1 3.88 +1 -3.47 +0 4.79 +0 0.00 | SE ac 3/3 JE-1 | C4/1 79E-1 79E-1 79E-1 23E+0 00E+0 23E+0 00E+0 00E+0 00E+0 | Ces ing 1 -7.88 0.001 -7.88 -3.55 0.001 -3.55 0.001 | Abiotic to EN 3E-2 0. E+0 0. 3E-2 0. 5E-2 0. 5E-1 0. E+0 0. 5E-1 0. | D/1 .00E+0 .00E+0 .00E+0 .00E+0 .00E+0 .00E+0 .00E+0 .00E+0 | 4+A1: 7 D/2 -1.61E+0 0.00E+0 -1.61E+0 -7.39E+0 0.00E+0 -7.39E+0 0.00E+0 | D/3 -5.08E-1 0.00E+0 -5.08E-1 -3.26E+1 0.00E+0 -3.26E+1 4.80E-1 |
| Floore Parama PER PER PER PEN PEN SM SM | eter E M T RE RM RM RT RT I I I | Init MJ MJ MJ MJ MJ MJ MJ Kg MJ | A1-A3 6.87E+1 3.90E-1 6.91E+1 1.26E+2 3.43E+1 1.61E+2 1.91E+0 0.00E+0 | A - INDI 2.27E-1 0.00E+0 2.27E-1 4.07E+0 0.00E+0 4.07E+0 0.00E+0 0.00E+0 | fossi CATO A5 2.49E+0 -3.90E-1 2.10E+0 5.28E+0 -2.15E-1 5.06E+0 5.73E-2 0.00E+0 | B1 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E | rees; AD DES +0 1.2 +0 0.00 +0 1.2 +0 7.8 +0 0.00 +0 7.8 +0 0.00 +0 0.00 | PF = / CRI 4E+0 0E+0 4E+0 6E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 | Abiotic c BE R 1.26E- 0.00E+ 1.26E- 2.27E- 0.00E+ 2.27E- 0.00E+ 0.00E+ | Image: Participant of the second state of t | CE C -1 7.99 +0 0.000 -1 7.99 +1 3.88 +1 -3.47 +0 4.79 +0 0.000 +0 0.000 | SE ac SE-1 3 E-1 3 E+0 0 DE-1 3 E+1 5 E+1 5 E+0 5 E+0 0 E+1 0 E+1 0 E+1 0 E+0 0 E+0 0 | C4/1 79E-1 00E+0 79E-1 23E+0 00E+0 23E+0 00E+0 00E+0 00E+0 00E+0 | Ces ing 1 -7.88 0.001 -7.88 -3.55 0.001 -3.55 0.001 0.001 | Abiotic to EN 3E-2 0. E+0 0. 3E-2 0. 5E-1 0. E+0 0. 5E-1 0. E+0 0. E+0 0. E+0 0. | D/1 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 | 4+A1: / D/2 -1.61E+0 0.00E+0 -1.61E+0 -7.39E+0 0.00E+0 0.00E+0 0.00E+0 | D/3 -5.08E-1 0.00E+0 -5.08E-1 -3.26E+1 0.00E+0 -3.26E+1 4.80E-1 0.00E+0 |
| Floor Parame PER PER PENF PENF PENF SM | eter E //////////////////////////////////// | Img Unit [MJ] | A1-A3 6.87E+1 3.90E-1 6.91E+1 1.26E+2 3.43E+1 1.61E+2 1.91E+0 0.00E+0 0.00E+0 | A - INDI 2.27E-1 0.00E+0 2.27E-1 4.07E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 | fossi A5 2.49E+0 -3.90E-1 2.10E+0 5.28E+0 -2.15E-1 5.06E+0 5.73E-2 0.00E+0 0.00E+0 | B1 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E | ces; AD DES +0 1.2 +0 1.2 +0 0.0 +0 1.2 +0 7.8 +0 0.0 +0 7.8 +0 0.0 +0 0.0 +0 0.0 | PF = / CRI 4E+0 0E+0 4E+0 6E+0 0E+0 6E+0 0E+0 0E+0 0E+0 0E+0 0 | Abiotic c BE R 1.26E- 0.00E+ 1.26E- 2.27E- 0.00E+ 2.27E- 0.00E+ 0.00E+ 0.00E+ | Image Image <th< td=""><td>Dotential CE U -1 7.99 +0 0.000 -1 7.99 +1 3.88 +1 -3.47 +0 0.000 +0 0.000 +0 0.000 +0 0.000</td><td>for fossi SE ac y3 jE-1 jE-2</td><td>C4/1 79E-1 00E+0 79E-1 23E+0 00E+0 23E+0 00E+0 00E+0 00E+0 00E+0</td><td>Ces ing 1 -7.88 0.001 -7.88 -3.55 0.001 -3.55 0.001 0.001 0.001</td><td>Abiotic to EN 3E-2 0. E+0 0. 3E-2 0. E+0 0. 3E-1 0. 5E-1 0. 5E-1 0. 5E-1 0. 5E-1 0. 5E-1 0. 5E-1 0. 5E-2 0. 5E-1 0.</td><td>D/1 .00E+0 .00E+0</td><td>4+A1: 7 D/2 -1.61E+0 0.00E+0 -1.61E+0 -7.39E+0 0.00E+0 -7.39E+0 0.00E+0</td><td>D/3 -5.08E-1 0.00E+0 -5.08E-1 -3.26E+1 0.00E+0 -3.26E+1 4.80E-1 0.00E+0 0.00E+0</td></th<> | Dotential CE U -1 7.99 +0 0.000 -1 7.99 +1 3.88 +1 -3.47 +0 0.000 +0 0.000 +0 0.000 +0 0.000 | for fossi SE ac y3 jE-1 jE-2 | C4/1 79E-1 00E+0 79E-1 23E+0 00E+0 23E+0 00E+0 00E+0 00E+0 00E+0 | Ces ing 1 -7.88 0.001 -7.88 -3.55 0.001 -3.55 0.001 0.001 0.001 | Abiotic to EN 3E-2 0. E+0 0. 3E-2 0. E+0 0. 3E-1 0. 5E-1 0. 5E-1 0. 5E-1 0. 5E-1 0. 5E-1 0. 5E-1 0. 5E-2 0. 5E-1 0. | D/1 .00E+0 | 4+A1: 7 D/2 -1.61E+0 0.00E+0 -1.61E+0 -7.39E+0 0.00E+0 -7.39E+0 0.00E+0 | D/3 -5.08E-1 0.00E+0 -5.08E-1 -3.26E+1 0.00E+0 -3.26E+1 4.80E-1 0.00E+0 0.00E+0 |
| Floore Paramo PER PER PEN PEN PEN SM RSF | Eeter | Imp Unit [MJ] | A1-A3 6.87E+1 3.90E-1 6.91E+1 1.26E+2 3.43E+1 1.61E+2 1.91E+0 0.00E+0 0.00E+0 1.90E-1 Use of ro | A - INDI 2.27E-1 4.07E+0 0.00E+0 2.27E-1 4.07E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 2.60E-4 enewable | 60551 CATO 2.49E+0 -3.90E-1 2.10E+0 5.28E+0 -2.15E-1 5.06E+0 5.73E-2 0.00E+0 0.00E+ | I resour RS T(B1 0.00E | cces; AD D DES I +0 1.2 +0 0.00 +0 7.8 +0 7.8 +0 0.00 +0 +0 0.00 <td>BPF = 7 BCRI 4E+0 0E+0 4E+0 6E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 3E-3 ng rer</td> <td>Abiotic c BE R 1.26E- 0.00E+ 1.26E- 2.27E- 0.00E+ 2.27E- 0.00E+ 0.00E+ 1.45E- tewable</td> <td>Image: Control of the second second</td> <td>Dotential CE U -1 7.99 +0 0.000 -1 7.99 +1 3.88 +1 -3.47 +0 0.000</td> <td>for fossi SE ac 3/3 9E-1 3/E+0 9E-1 3/E+1 5 E+1 5 E+1 0 E+1 0 E+1 0 E+0 0 E+2 4 resource</td> <td>C4/1 79E-1 00E+0 79E-1 23E+0 00E+0 23E+0 00E+0 00E+0 00E+0 82E-5 es use</td> <td>ces ing 1 -7.88 0.001 -7.88 -3.55 0.001 -3.55 0.001 0.00000000</td> <td>Abiotic 10 EN 3E-2 0. 5E-2 0. 5E-1 0. 5E-</td> <td>D/1 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 terials; F</td> <td>4+A1: 7 D/2 -1.61E+0 0.00E+0 -1.61E+0 -7.39E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 -1.58E-3 ERM = L</td> <td>D/3 -5.08E-1 0.00E+0 -5.08E-1 -3.26E+1 0.00E+0 -3.26E+1 4.80E-1 0.00E+0 -3.08E-3 Jse of</td> | BPF = 7 BCRI 4E+0 0E+0 4E+0 6E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 3E-3 ng rer | Abiotic c BE R 1.26E- 0.00E+ 1.26E- 2.27E- 0.00E+ 2.27E- 0.00E+ 0.00E+ 1.45E- tewable | Image: Control of the second | Dotential CE U -1 7.99 +0 0.000 -1 7.99 +1 3.88 +1 -3.47 +0 0.000 | for fossi SE ac 3/3 9E-1 3/E+0 9E-1 3/E+1 5 E+1 5 E+1 0 E+1 0 E+1 0 E+0 0 E+2 4 resource | C4/1 79E-1 00E+0 79E-1 23E+0 00E+0 23E+0 00E+0 00E+0 00E+0 82E-5 es use | ces ing 1 -7.88 0.001 -7.88 -3.55 0.001 -3.55 0.001 0.00000000 | Abiotic 10 EN 3E-2 0. 5E-2 0. 5E-1 0. 5E- | D/1 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 terials; F | 4+A1: 7 D/2 -1.61E+0 0.00E+0 -1.61E+0 -7.39E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 -1.58E-3 ERM = L | D/3 -5.08E-1 0.00E+0 -5.08E-1 -3.26E+1 0.00E+0 -3.26E+1 4.80E-1 0.00E+0 -3.08E-3 Jse of |
| Floore Paramo PER PER PEN PEN PEN SM RSF NRS | eter E M T R R R R R R R R R R R R R R R R R R | Init [MJ] [m] PERE = ewable non-ren non-ren newable | HE LC/ A1-A3 6.87E+1 3.90E-1 6.91E+1 1.26E+2 1.91E+0 0.00E+0 1.90E-1 Use of ro- primary elevable por primary elevable por timary elevable por t | A - INDI 2.27E-1 4.07E+0 0.00E+0 2.27E-1 4.07E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 2.60E-4 enewable | fossi A5 2.49E+0 -3.90E-1 2.10E+0 5.28E+0 -2.15E-1 5.06E+0 5.73E-2 0.00E+0 6.32E-3 primary eources us ources us | Intersection RS TO 0.00E 0.00E | cces; AD DDES I +0 1.2; +0 0.0; +0 7.8; +0 7.8; +0 7.0; +0 | PPF = / SCRI B2 4E+0 0E+0 4E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 1E+0 0E+0 1E+0 | Abiotic c BE R 1.26E- 0.00E+ 1.26E- 2.27E- 0.00E+ 2.27E- 0.00E+ 0.00E+ 1.45E- 1.45E- 1.45E- 1.45E- 1.45E- 1.45E- 1.45E- 1.45E- 1.45E- 1.26E- 0.00E+ 1.26E- 1.26E- 0.00E+ 1.26E- 1.27E- 0.00E+ 1.25E- 1.26E- 1.25E- 1 | Image Image <th< td=""><td>C: C: -1 7.99 +0 0.000 -1 7.99 +0 0.001 +1 3.88 +1 3.44 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +1 3.84 +1 3.84 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 <tr< td=""><td>for fossi SE ac 3/3 JE-1 JE-1 SE JE-1 SE JE JE</td><td>C4/1 79E-1 00E+0 79E-1 23E+0 00E+0 23E+0 00E+0 00E+0 82E-5 es use e prima d as rate</td><td>cces ing 1 -7.88 0.001 -7.88 0.001 -7.88 0.001 -3.55 0.001 -3.55 0.001 -7.700 -7.700 -7.700 -7.700 -7.700 -7.700 -7.700 -7.700 -7.700 -7.700 -7.700 -7.700</td><td>Abiotic 10 EN 10 E-2 0. 10 E-2 0. 10 E-2 0. 10 E-2 0. 10 E-2 0. 10 E-2 0. 10 E-1 0.</td><td>D/1 .00E+0 .00E+</td><td>4+A1: D/2 -1.61E+0 0.00E+0 -1.61E+0 -7.39E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.58E-3 PERM = L ; PENRE I = Use of ources; S</td><td>D/3 -5.08E-1 0.00E+0 -5.08E-1 -3.26E+1 0.00E+0 -3.26E+1 4.80E-1 0.00E+0 -3.08E-3 Jse of = Use of f non- SM = Use</td></tr<></td></th<> | C: C: -1 7.99 +0 0.000 -1 7.99 +0 0.001 +1 3.88 +1 3.44 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +1 3.84 +1 3.84 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 <tr< td=""><td>for fossi SE ac 3/3 JE-1 JE-1 SE JE-1 SE JE JE</td><td>C4/1 79E-1 00E+0 79E-1 23E+0 00E+0 23E+0 00E+0 00E+0 82E-5 es use e prima d as rate</td><td>cces ing 1 -7.88 0.001 -7.88 0.001 -7.88 0.001 -3.55 0.001 -3.55 0.001 -7.700 -7.700 -7.700 -7.700 -7.700 -7.700 -7.700 -7.700 -7.700 -7.700 -7.700 -7.700</td><td>Abiotic 10 EN 10 E-2 0. 10 E-2 0. 10 E-2 0. 10 E-2 0. 10 E-2 0. 10 E-2 0. 10 E-1 0.</td><td>D/1 .00E+0 .00E+</td><td>4+A1: D/2 -1.61E+0 0.00E+0 -1.61E+0 -7.39E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.58E-3 PERM = L ; PENRE I = Use of ources; S</td><td>D/3 -5.08E-1 0.00E+0 -5.08E-1 -3.26E+1 0.00E+0 -3.26E+1 4.80E-1 0.00E+0 -3.08E-3 Jse of = Use of f non- SM = Use</td></tr<> | for fossi SE ac 3/3 JE-1 JE-1 SE JE-1 SE JE | C4/1 79E-1 00E+0 79E-1 23E+0 00E+0 23E+0 00E+0 00E+0 82E-5 es use e prima d as rate | cces ing 1 -7.88 0.001 -7.88 0.001 -7.88 0.001 -3.55 0.001 -3.55 0.001 -7.700 -7.700 -7.700 -7.700 -7.700 -7.700 -7.700 -7.700 -7.700 -7.700 -7.700 -7.700 | Abiotic 10 EN 10 E -2 0. 10 E -1 0. | D/1 .00E+0 .00E+ | 4+A1: D/2 -1.61E+0 0.00E+0 -1.61E+0 -7.39E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.58E-3 PERM = L ; PENRE I = Use of ources; S | D/3 -5.08E-1 0.00E+0 -5.08E-1 -3.26E+1 0.00E+0 -3.26E+1 4.80E-1 0.00E+0 -3.08E-3 Jse of = Use of f non- SM = Use |
| Floored Parama PER PER PENF PENF PENF SM RSF NRSS FW Captio | COVE eter E M M T T R R R R R R R R R r end r end r end r end r end r end r eter I I I I I I I I I I I I I I I I I I I | Image Unit [MJ] [M] [M] [M] [M] [M] [M] [M] [M] [M] [M] | A1-A3 6.87E+1 3.90E-1 1.26E+2 3.43E+1 1.61E+2 1.91E+0 0.00E+0 0.00E+0 0.00E+0 1.90E-1 Use of ro primary e wable p primary e y materia HE LC/ | A - INDI 2.27E-1 0.00E+0 2.27E-1 4.07E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 2.60E-4 enewable nergy ress rimary en- nergy ress | fossi A5 2.49E+0 3.90E-1 2.10E+0 5.28E+0 -2.15E-1 5.06E+0 5.73E-2 0.00E+0 0.00E | B1 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E | test test | PPF = . CRI 4E+0 0E+0 | Abiotic c BE R 1.26E- 0.00E+ 1.26E- 2.27E- 0.00E+ 2.27E- 0.00E+ 1.26E- 2.27E- 0.00E+ 1.26E- 2.27E- 0.00E+ 1.26E- 2.27E- 0.00E+ 1.26E- 1.26E- 0.00E+ 1.26E- 0.00E+ 1.26E- 0.00E+ 1.45E- 1 | Image: Control of the second | cc: cc: 1 7.99 +0 0.00 +1 3.88 +1 3.47 +0 0.00 +1 3.84 +1 3.47 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +1 1.95 0 1.95 0 1.95 0 1.95 0 1.95 0 1.95 0 1.95 0 1.95 0 1.95 0 1.95 0 1.95 0 1. | for fossi SE ac 33 9E-1 38 E+1 5 E+1 5 E+1 5 E+1 5 E+1 5 E+1 5 E+0 E+0 0 E+2 4 resourc non-rere non-rene | C4/1 79E-1 79E-1 79E-1 79E-1 23E+0 00E+0 23E+0 00E+0 82E-5 es user e prima d as rate as rate wablels | cces ing 1 -7.88 0.000 -7.88 0.001 -7.88 -3.55 0.001 -3.55 0.000 -3.55 0.001 -7.702 0.001 -7.702 d as right range of the prime second | Abiotic to EN 3E-2 0 E+0 0 E+0 0 E-1 0 E+0 0 E+0 0 E+0 0 E+0 0 E+0 0 aw materials; ary end dary fur | D/1 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 | 4+A1: 7 D/2 -1.61E+0 0.00E+0 -1.61E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.58E-3 PERRE I = Use of ources; S = Use of | D/3 -5.08E-1 0.00E+0 -5.08E-1 -3.26E+1 0.00E+0 -3.26E+1 4.80E-1 0.00E+0 -3.08E-3 Jse of = Use of f non- SM = Use |
| Floored Parama PER PER PENF PENF PENF SM RSF NRSS FW Captio | COVE eter E M T T T T T T T T T T T T T | ring Unit [MJ] [MJ] [MJ] [MJ] [MJ] [MJ] [MJ] [MJ] | A1-A3 6.87E+1 3.90E-1 1.26E+2 3.43E+1 1.61E+2 1.91E+0 0.00E+0 0.00E+0 0.00E+0 1.90E-1 Use of ro primary e wable p primary e y materia HE LC/ | A - INDI 2.27E-1 0.00E+0 2.27E-1 4.07E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 2.60E-4 enewable nergy ress rimary en nergy ress al; RSF = | fossi A5 2.49E+0 3.90E-1 2.10E+0 5.28E+0 -2.15E-1 5.06E+0 5.73E-2 0.00E+0 0.00E | B1 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E | ces; AD D DES I +0 1.2: +0 0.00 +0 7.88 +0 0.00 +0 7.84 +0 0.00 +0 7.84 +0 0.00 +0 7.84 +0 0.00 +0 4.1 excluding aw mather on-renerative second response are second respond respond response are second response are second respond resp | PPF = . CRI 4E+0 0E+0 | Abiotic c BE R 1.26E- 0.00E+ 1.26E- 2.27E- 0.00E+ 2.27E- 0.00E+ 1.26E- 2.27E- 0.00E+ 1.26E- 2.27E- 0.00E+ 1.26E- 2.27E- 0.00E+ 1.26E- 2.27E- 0.00E+ 1.26E- 0.00E+ 1.45E- 1 | Image: Control of the second | Dotential CE U -1 7.99 +0 0.00 -1 7.99 +1 3.48 +0 0.00 +1 3.49 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 -2 2.00 se of nc resource I use of nc se of nc FLOV 1 | for fossi SE ac 33 9E-1 38 E+1 5 E+1 5 E+1 5 E+1 5 E+1 5 E+1 5 E+0 E+0 0 E+2 4 resourc non-rere non-rene | C4/1 79E-1 79E-1 79E-1 79E-1 23E+0 00E+0 23E+0 00E+0 82E-5 es user e prima d as rate as rate wablels | cces ing 1 -7.88 0.000 -7.88 0.001 -7.88 -3.55 0.001 -3.55 0.000 -3.55 0.001 -7.702 0.001 -7.702 d as right range of the prime second | Abiotic IDE -2 0 E -2 0 E -2 0 E -1 0 E -2 0 E -1 0 | D/1 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 | 4+A1: 7 D/2 -1.61E+0 0.00E+0 -1.61E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.58E-3 PERRE I = Use of ources; S = Use of | D/3 -5.08E-1 0.00E+0 -5.08E-1 -3.26E+1 0.00E+0 -3.26E+1 4.80E-1 0.00E+0 -3.08E-3 Jse of = Use of f non- SM = Use |
| floord Parama PER PENF PENF PENF SM RSF NRS FW Captio | eter E M T T R R R R R R R R R R R R R | ring Unit MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ | HE LC/ A1-A3 6.87E+1 3.90E-1 6.91E+1 1.26E+2 3.43E+1 1.61E+2 1.91E+0 0.00E+0 0.00E+0 0.00E+0 1.90E-1 Use of re- primary en- ewable p primary en- ewable p primary en- the constant of the c | A - INDI 2.27E-1 0.00E+0 2.27E-1 4.07E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 2.60E-4 enewable nergy resarrimary en nergy res al; RSF = | fossi A5 2.49E+0 -3.90E-1 2.10E+0 5.28E+0 -2.15E-1 5.06E+0 5.73E-2 0.00E+0 0.00 | B1 0.00E | ces; AD D DES I +0 1.2; +0 0.00; +0 7.8; +0 7.8; +0 0.00; +0 7.8; +0 0.00; +0 0.00; | PPF = . CCRI B2 4E+0 0E+0 4E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 S AI B2 B2 DE-10 | Abiotic c BE R 1.26E- 0.00E+ 1.26E- 2.27E- 0.00E+ 2.27E- 0.00E+ 0.00E+ 0.00E+ 1.45E- 3.27E- 0.00E+ 1.45E- 3.27E- 0.00E+ 1.45E- 3.27E- 0.00E+ 1.45E- 3.27E- 0.00E+ 1.26E- 0.00E+ 0.00E+ 1.45E- 1.45E- 1.45E- 0.00E+ 0 | Image: Control of the second state in the s | CE C 1 7.99 -0 0.00 -1 7.99 -0 1 -0 1 -1 3.88 +1 -3.47 +0 0.00 +0 <td< td=""><td>for fossi SE ac 3/3 E-1 3/2 E+0 0.9 E+1 5 E+1 5 E+1 5 E+1 0.0 E+0 E+0 0.0 E+0 E+0 0.0 E+0 0.0 E+0 0.0 E+0 0.0 E+0 0.0 E+0 0.0 E+2 4 resourceneeve VS acc 3/3 /2</td><td>I resourt C4/1 79E-1 00E+00 00E+00 </td><td>rces ing 1 -7.88 0.001 -7.88 0.001 -7.88 -7.85 0.001 0.001 0.001 0.001 -7.70 d as ray en w mate e primsecond ing t</td><td>Abiotic to EN E-2 0 E-2 0 E-1 0 E-1 0 E-1 0 E-1 0 E-1 0 E+0 0 E-1 0 E+0 0 E-1 0</td><td>1580 D/1 .00E+0 .00E+0</td><td>4+A1: 7 D/2 -1.61E+0 0.00E+0 -1.61E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+3 2ERM = L ; PENRE I = Use of ources; S = Use of 4+A1:</td><td>D/3 -5.08E-1 0.00E+0 -5.08E-1 -3.26E+1 0.00E+0 -3.26E+1 4.80E-1 0.00E+0 -3.08E-3 Jse of = Use of f non- SM = Use net fresh D/3</td></td<> | for fossi SE ac 3/3 E-1 3/2 E+0 0.9 E+1 5 E+1 5 E+1 5 E+1 0.0 E+0 E+0 0.0 E+0 E+0 0.0 E+0 0.0 E+0 0.0 E+0 0.0 E+0 0.0 E+0 0.0 E+2 4 resourceneeve VS acc 3/3 /2 | I resourt C4/1 79E-1 00E+00 | rces ing 1 -7.88 0.001 -7.88 0.001 -7.88 -7.85 0.001 0.001 0.001 0.001 -7.70 d as ray en w mate e primsecond ing t | Abiotic to EN E-2 0 E-2 0 E-1 0 E-1 0 E-1 0 E-1 0 E-1 0 E+0 0 E-1 0 E+0 0 E-1 0 | 1580 D/1 .00E+0 | 4+A1: 7 D/2 -1.61E+0 0.00E+0 -1.61E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+3 2ERM = L ; PENRE I = Use of ources; S = Use of 4+A1: | D/3 -5.08E-1 0.00E+0 -5.08E-1 -3.26E+1 0.00E+0 -3.26E+1 4.80E-1 0.00E+0 -3.08E-3 Jse of = Use of f non- SM = Use net fresh D/3 |
| floord Parama PER PER PENF PENF SM RSF NRS FW Captio | COVE eter E M T T T R R R R R R R R R R R R R | ring Unit MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ | HE LC/ A1-A3 6.87E+11 3.90E-1 6.91E+11 1.61E+2 3.43E+11 1.61E+2 1.91E+0 0.00E+0 1.90E-1 Use of re- orimary ee wable p primary ee wable p the LC/ ing A1-A3 3.79E-3 8.56E-1 | A - INDI 2.27E-1 0.00E+0 2.27E+1 4.07E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 2.60E-4 enewables nergy resa al; RSF = A - WA A4 2.05E-10 6.05E-4 | fossi A5 2.49E+0 -3.90E-1 2.10E+0 5.28E+00 -2.15E-1 5.06E+00 5.73E-2 0.00E+00 6.32E-33 primary 60 ources us use of re STE C/ A5 1.14E-4 6.06E-2 | Iresour RS TO B1 0.00E as newab ATEG B1 0.00E 0.00E | cces; AD D DES I <t< td=""><td>PPF = . CCRI 82 4E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 1S AI 82 DE-10 2E-3</td><td>Abiotic c BE R 1.26E- 0.00E+ 1.26E- 2.27E- 0.00E+ 2.27E- 0.00E+ 2.27E- 0.00E+ 2.27E- 0.00E+ 1.26E- 2.27E- 0.00E+ 1.26E- 2.27E- 0.00E+ 1.26E- 2.27E- 0.00E+ 2.27E- 2.27E- 0.00E+ 2.27E- 2.27E- 0.00E+ 2.27E- 2</td><td>Image: Control of the second state in the s</td><td>Dotential CE U -1 7.99 +0 0.00 +1 7.99 +1 3.41 +0 0.00 +1 3.41 +0 0.00 +0 0.00 +0 0.00 +0 0.00 -2 2.00 se of nc resource I use of nc se of nc FLOV </td><td>for fossi SE ac SE E+0 SE+0 SE SE</td><td>I resour I resource I resource</td><td>rces ing 1 -7.88 0.000 -7.88 0.000 -7.88 0.000 -3.55 0.0000 0.0000 0.0000 0.000000</td><td>Abiotic COEN 2015 20</td><td>1580 D/1 .00E+0 .00E+0</td><td>4+A1: 7 D/2 -1.61E+0 0.00E+0 -1.61E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+3 7.39E+0 0.00E+0 1.58E-3 2ERM = L ; PENRE I = Use of 0.00Ce+0 4+A1: D/2 -1.65E-9 -3.41E-3</td><td>D/3 -5.08E-1 0.00E+0 -5.08E-1 -3.26E+1 0.00E+0 -3.26E+1 0.00E+0 -3.08E-3 Jse of = Use of fnon- SM = Use net fresh D/3 -2.45E-9 -2.38E-1</td></t<> | PPF = . CCRI 82 4E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 1S AI 82 DE-10 2E-3 | Abiotic c BE R 1.26E- 0.00E+ 1.26E- 2.27E- 0.00E+ 2.27E- 0.00E+ 2.27E- 0.00E+ 2.27E- 0.00E+ 1.26E- 2.27E- 0.00E+ 1.26E- 2.27E- 0.00E+ 1.26E- 2.27E- 0.00E+ 2.27E- 2.27E- 0.00E+ 2.27E- 2.27E- 0.00E+ 2.27E- 2 | Image: Control of the second state in the s | Dotential CE U -1 7.99 +0 0.00 +1 7.99 +1 3.41 +0 0.00 +1 3.41 +0 0.00 +0 0.00 +0 0.00 +0 0.00 -2 2.00 se of nc resource I use of nc se of nc FLOV | for fossi SE ac SE E+0 SE+0 SE | I resour I resource I resource | rces ing 1 -7.88 0.000 -7.88 0.000 -7.88 0.000 -3.55 0.0000 0.0000 0.0000 0.000000 | Abiotic COEN 2015 20 | 1580 D/1 .00E+0 | 4+A1: 7 D/2 -1.61E+0 0.00E+0 -1.61E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+3 7.39E+0 0.00E+0 1.58E-3 2ERM = L ; PENRE I = Use of 0.00Ce+0 4+A1: D/2 -1.65E-9 -3.41E-3 | D/3 -5.08E-1 0.00E+0 -5.08E-1 -3.26E+1 0.00E+0 -3.26E+1 0.00E+0 -3.08E-3 Jse of = Use of fnon- SM = Use net fresh D/3 -2.45E-9 -2.38E-1 |
| floord Parama PER PER PENF PENF PENF SM RSS FW Captio Captio | eter E E M T T RM R RT R RT R F R F R I I F R I I I I R I I I <t< td=""><td>ring Unit MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ</td><td>HE LC/ A1-A3 6.87E+1 3.90E-1 6.91E+1 1.26E+2 3.43E+1 1.61E+2 1.91E+0 0.00E+0 1.90E-1 Use of ro- primary e wable p primary e wable p primary e ty material HE LC/ ing A1-A3 3.79E-3 8.56E-1 3.21E-3</td><td>A - INDI 2.27E-1 0.00E+0 2.27E-1 4.07E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+4 energy ress rimary ensal; RSF = A - WA A4 2.05E-10 6.05E-4 4.93E-6</td><td>fossi A5 2.49E+0 3.90E-1 2.10E+0 5.28E+0 -2.15E-1 5.06E+0 5.73E-2 0.00E+0 STEC A5 1.14E+4 6.06E-2 1.00E-4</td><td>I resour RS T(B1 0.00E as r uding n sed as r newab ATEC B1 0.00E 0.00E 0.00E</td><td>cess; AD DDES I +0 1.2 +0 0.00 +0 7.8 +0 7.8 +0 0.00 +0 7.8 +0 0.00 +0 5.90 +0 5.60 +0</td><td>PPF = . CCRI B2 B2 B2 B2 B2 B2 B2 B2 B2 B2</td><td>Abiotic c BE R 1.26E- 0.00E+ 1.26E- 2.27E- 0.00E+ 2.27E- 0.00E+ 1.26E- 2.27E- 0.00E+ 1.26E- 2.27E- 0.00E+ 1.26E- 2.27E- 0.00E+ 1.26E- 1.26E- 0.00E+ 1.26E- 1.26E- 0.00E+ 1.26E- 0.00E+ 1.26E- 0.00E+ 1.45E- 1.45E- 1.45E- 1.45E- 1.45E- 1.26E- 1.45E- 1</td><td>Image: Control of the second state in the s</td><td>cc: c: 1 7.99 -0 0.00 +1 3.88 +1 3.47 +0 4.79 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +1 1.08 1 use of nc se of nc se of nc FLOV </td><td>for fossi SE ac SE SE <t< td=""><td>Iresour cord cord cord cord c</td><td>ces ing 1 -7.88 0.001 -7.88 -3.55 0.001 -3.55 0.001 -3.55 0.001 -3.55 0.001 -3.55 0.001 -3.55 0.001 -3.55 0.001 -3.55 0.001 -7.702 d as r ap prim second D -7.795 -1.65 -2.54</td><td>Abiotic to EN E-2 0 E+0 0 E-2 0 E+0 0 E-1 0 E+0 0</td><td>1580 D/1 .00E+0 .00E+0</td><td>4+A1: D/2 -1.61E+0 0.00E+0 -7.39E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.58E-3 PERME L I = Use of 0.00E+0 -1.58E-3 -1.65E-9 -3.41E-3 -5.19E-4</td><td>D/3 -5.08E-1 0.00E+0 -5.08E-1 -3.26E+1 0.00E+0 -3.26E+1 4.80E-1 0.00E+0 0.00E+0 0.00E+0 3.08E-3 Jse of = Use of f non- SM = Use net fresh D/3 -2.45E-9 -2.38E-1 -1.31E-4</td></t<></td></t<> | ring Unit MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ | HE LC/ A1-A3 6.87E+1 3.90E-1 6.91E+1 1.26E+2 3.43E+1 1.61E+2 1.91E+0 0.00E+0 1.90E-1 Use of ro- primary e wable p primary e wable p primary e ty material HE LC/ ing A1-A3 3.79E-3 8.56E-1 3.21E-3 | A - INDI 2.27E-1 0.00E+0 2.27E-1 4.07E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+4 energy ress rimary ensal; RSF = A - WA A4 2.05E-10 6.05E-4 4.93E-6 | fossi A5 2.49E+0 3.90E-1 2.10E+0 5.28E+0 -2.15E-1 5.06E+0 5.73E-2 0.00E+0 STEC A5 1.14E+4 6.06E-2 1.00E-4 | I resour RS T(B1 0.00E as r uding n sed as r newab ATEC B1 0.00E 0.00E 0.00E | cess; AD DDES I +0 1.2 +0 0.00 +0 7.8 +0 7.8 +0 0.00 +0 7.8 +0 0.00 +0 5.90 +0 5.60 +0 | PPF = . CCRI B2 B2 B2 B2 B2 B2 B2 B2 B2 B2 | Abiotic c BE R 1.26E- 0.00E+ 1.26E- 2.27E- 0.00E+ 2.27E- 0.00E+ 1.26E- 2.27E- 0.00E+ 1.26E- 2.27E- 0.00E+ 1.26E- 2.27E- 0.00E+ 1.26E- 1.26E- 0.00E+ 1.26E- 1.26E- 0.00E+ 1.26E- 0.00E+ 1.26E- 0.00E+ 1.45E- 1.45E- 1.45E- 1.45E- 1.45E- 1.26E- 1.45E- 1 | Image: Control of the second state in the s | cc: c: 1 7.99 -0 0.00 +1 3.88 +1 3.47 +0 4.79 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +1 1.08 1 use of nc se of nc se of nc FLOV | for fossi SE ac SE SE <t< td=""><td>Iresour cord cord cord cord c</td><td>ces ing 1 -7.88 0.001 -7.88 -3.55 0.001 -3.55 0.001 -3.55 0.001 -3.55 0.001 -3.55 0.001 -3.55 0.001 -3.55 0.001 -3.55 0.001 -7.702 d as r ap prim second D -7.795 -1.65 -2.54</td><td>Abiotic to EN E-2 0 E+0 0 E-2 0 E+0 0 E-1 0 E+0 0</td><td>1580 D/1 .00E+0 .00E+0</td><td>4+A1: D/2 -1.61E+0 0.00E+0 -7.39E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.58E-3 PERME L I = Use of 0.00E+0 -1.58E-3 -1.65E-9 -3.41E-3 -5.19E-4</td><td>D/3 -5.08E-1 0.00E+0 -5.08E-1 -3.26E+1 0.00E+0 -3.26E+1 4.80E-1 0.00E+0 0.00E+0 0.00E+0 3.08E-3 Jse of = Use of f non- SM = Use net fresh D/3 -2.45E-9 -2.38E-1 -1.31E-4</td></t<> | Iresour cord cord cord cord c | ces ing 1 -7.88 0.001 -7.88 -3.55 0.001 -3.55 0.001 -3.55 0.001 -3.55 0.001 -3.55 0.001 -3.55 0.001 -3.55 0.001 -3.55 0.001 -7.702 d as r ap prim second D -7.795 -1.65 -2.54 | Abiotic to EN E-2 0 E+0 0 E-2 0 E+0 0 E-1 0 E+0 0 | 1580 D/1 .00E+0 | 4+A1: D/2 -1.61E+0 0.00E+0 -7.39E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.58E-3 PERME L I = Use of 0.00E+0 -1.58E-3 -1.65E-9 -3.41E-3 -5.19E-4 | D/3 -5.08E-1 0.00E+0 -5.08E-1 -3.26E+1 0.00E+0 -3.26E+1 4.80E-1 0.00E+0 0.00E+0 0.00E+0 3.08E-3 Jse of = Use of f non- SM = Use net fresh D/3 -2.45E-9 -2.38E-1 -1.31E-4 |
| floord Parama PER PER PENF PENF SM RSF NRS FW Captio | COVE eter E M T R R R R R R R R R R R R R | ring Unit MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ | A1-A3 6.87E+1 3.90E-1 6.91E+1 1.26E+2 3.43E+1 1.61E+2 1.91E+0 0.00E+0 0.00E+0 0.00E+0 1.90E-1 Use of ro primary energies HE LC/ ing A1-A3 3.79E-3 8.56E-1 3.21E-3 0.00E+0 1.99E-2 | A - INDI 2.27E-1 0.00E+0 2.27E-1 4.07E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1, RSF = A - WA A 2.05E-10 6.05E-4 4.93E-6 0.00E+0 0.00E+0 0.00E+0 | fossi CATOI 2.49E+0 -3.90E-1 2.10E+0 5.28E+0 -2.15E-1 5.06E+0 5.73E-2 0.00E+0 STE C/ A5 1.14E4 0.00E+0 0.00E+0 0.00E+0 1.30E-1 | I resour RS T(B1 0.00E | cees; AD DDES I +0 1.2; +0 0.00 +0 7.8; +0 7.8; +0 0.00 +0 7.8; +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 5.0 FORIE I +0 5.90 +0 5.6; +0 5.3; +0 0.00 +0 5.0; +0 5.0; +0 5.0; +0 5.0; +0 5.0; +0 5.6; +0 5.6; +0 5.6; +0 5.6; +0 5.6; +0 5.6; +0 5.6; +0 5.6; +0 5.6; +0 | PPF = . CRI 82 82 4E+0 0E | Abiotic c BE R 1.26E- 0.00E+ 1.26E- 2.27E- 0.00E+ 2.27E- 0.00E+ 2.27E- 0.00E+ 2.27E- 0.00E+ 1.26E- 2.27E- 0.00E+ 1.26E- 2.27E- 0.00E+ 1.26E- 2.27E- 0.00E+ 2.27E- 2.27E- 0.00E+ 2.27E- 2.27E- 0.00E+ 2.27E- 2 | Image: Control of the second state in the s | cc: c: 1 7.99 -0.000 -1 -1 7.99 +0 0.000 +1 3.88 +1 -3.47 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +0 0.000 +1 -1.00 +1 -1.00 +1 -1.00 +1 -1.00 +0 0.000 | for fossi SE ac 33 9E-1 38E-1 58E 9E-1 38E+1 58E 9E-1 9E-0 9E-1 9E-1 9E-1 9E-1 9E-1 9E-2 4 resourc non-rere Non-rene VS ac 93 7E-8 9.2 8-4 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.5 9.6 9.7 <td>I resour I resource I resource</td> <td>ces ing 1 -7.88 0.001 -7.88 0.001 -7.88 -3.55 0.001 -3.55 0.001 -3.55 0.001 -3.55 0.001 -3.55 0.001 -7.705 -7.951 -1.65 -2.54 0.001 0.001</td> <td>Abiotic bE-2 0. bE-2 0. bE-2 0. bE-1 0. bE-1 0. bE-1 0. bE-1 0. bE-1 0. bE-1 0. bE-1 0. bE-5 0. bE-1 0. bE-5 0. bE-1 0. b</td> <td>1580 D/1 .00E+0 .00E+0</td> <td>4+A1: 7 D/2 -1.61E+0 0.00E+0 -1.61E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+3 7.39E+0 0.00E+0 1.58E-3 2ERM = L ; PENRE I = Use of 0.00Ce+0 4+A1: D/2 -1.65E-9 -3.41E-3</td> <td>D/3 -5.08E-1 0.00E+0 -5.08E-1 -3.26E+1 0.00E+0 -3.26E+1 4.80E-1 0.00E+0 0.00E+0 0.00E+0 3.08E-3 Jse of = Use of f non- SM = Use net fresh D/3 -2.45E-9 -2.38E-1 -1.31E-4</td> | I resour I resource I resource | ces ing 1 -7.88 0.001 -7.88 0.001 -7.88 -3.55 0.001 -3.55 0.001 -3.55 0.001 -3.55 0.001 -3.55 0.001 -7.705 -7.951 -1.65 -2.54 0.001 0.001 | Abiotic b E-2 0. b E-2 0. b E-2 0. b E-1 0. b E-5 0. b E-1 0. b E-5 0. b E-1 0. b | 1580 D/1 .00E+0 | 4+A1: 7 D/2 -1.61E+0 0.00E+0 -1.61E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+3 7.39E+0 0.00E+0 1.58E-3 2ERM = L ; PENRE I = Use of 0.00Ce+0 4+A1: D/2 -1.65E-9 -3.41E-3 | D/3 -5.08E-1 0.00E+0 -5.08E-1 -3.26E+1 0.00E+0 -3.26E+1 4.80E-1 0.00E+0 0.00E+0 0.00E+0 3.08E-3 Jse of = Use of f non- SM = Use net fresh D/3 -2.45E-9 -2.38E-1 -1.31E-4 |
| floord Paramo PER PENF PENF PENF SM SM SM SM Captio RESU 1 m ² 1 Paramo HWI NHW RESU 1 m ² 1 | COVE eter E M T R R R R R R r r r r r r r r r r r r r | ring Unit MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ | A1-A3 6.87E+1 3.90E-1 6.91E+1 1.26E+2 3.43E+1 1.61E+2 1.91E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.90E-1 Use of ro primary en- ewable p primary en- ewable p pr | A - INDI 2.27E-1 0.00E+0 2.27E-1 4.07E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 2.60E-4 enewable nergy resa rimary en- nergy resa rimary en- nergy resa rimary en- nergy resa A - WA A 2.05E-10 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 | fossi A5 2.49E+0 -3.90E-1 2.10E+0 5.28E+0 -2.15E-1 5.06E+0 5.73E-2 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 STE C/ A5 1.14E4 0.00E+0 0.00E+0 1.30E-1 0.00E+0 | I resour RS TO 0.00E | cees; AD I< | PPF = . CRI 82 4E+0 0E+0 4E+0 0E+0 0E+0 0E+0 0E+0 0E+0 0E+0 3E-3 mg rer terials swablo terials t | Abiotic c BE R 1.26E- 0.00E+ 1.26E- 2.27E- 0.00E+ 2.27E- 0.00E+ 2.27E- 0.00E+ 1.45E- 1 | Image Image ESOUI ESOUI 2 5.41E 0 0.00E 2 5.41E 0 2.54T 1 3.78E 0 -3.41E 1 3.73E 0 0.00E 0 0.00E 0 0.00E 5 1.98E Primary Total tr y energy RSF = U Atter UTPUT UTPUT C3/2 11 1.25E 5 1.16E 7 1.30E 0 0.00E 0 0.00E | Dotential CE C 1 7.99 -1 7.99 -1 7.99 -1 7.99 -1 7.99 -1 3.88 +1 3.41 +0 4.79 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +1 -2.2.00 energy ise of regimeration of resource I use of resource FLOV ** C: ** C: ** C: ** 1.16 4 2.03 ** 0.000 ** 0.000 | for fossi SE ac 3/3 E-1 3/2 E+0 0.0 E+1 5 E+1 0.0 E+1 E+1 0.0 E+0 E+0 0.0 E+2 4 resourc newabl css use non-renew VS ac 3/3 E=8 9/3 E=8 9/3 E=4 6 E+0 0 E+0 0 E+0 0 E+0 0 E+0 0 E+0 | Iresour C4/1 79E-1 23E+0 00E+0 23E+1 23E+0 00E+0 23E+1 23E+1< | ces ing 1 -7.88 0.001 -7.88 0.001 -7.88 0.001 -3.55 0.001 -3.55 0.001 -3.55 0.001 -3.55 0.001 -3.55 0.001 -7.70 d as ray en wy mate e prime ing t -7.951 -1.654 0.000 0.001 0.001 | Abiotic b E-2 0 b E-2 0 b E-2 0 b E-1 0 b E-5 0 b E-1 0 b E-1 0 b E-5 0 b E-1 | 1580 D/1 .00E+0 | 4+A1: 7 D/2 -1.61E+0 0.00E+0 -7.39E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1+A1: D/2 -1.65E-9 -3.41E-3 -5.19E-4 0.00E+0 | D/3 -5.08E-1 0.00E+0 -5.08E-1 -3.26E+1 0.00E+0 -3.26E+1 4.80E-1 0.00E+0 -3.08E-3 Jse of = Use of fnon- SM = Use of fnon- SM = Use net fresh -2.45E-9 -2.45E-9 -1.31E-4 0.00E+0 0.00E+0 0.00E+0 |
| floord Parama PER PENF PENF PENF SM RSF NRSS FW Captio | Cove eter E M T T T T T T T T T T T T T T T T T T | ring Unit MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ | A1-A3 6.87E+1 3.90E-1 6.91E+1 1.26E+2 3.43E+1 1.61E+2 1.91E+0 0.00E+0 0.00E+0 0.00E+0 1.90E-1 Use of ro primary energies HE LC/ ing A1-A3 3.79E-3 8.56E-1 3.21E-3 0.00E+0 1.99E-2 | A - INDI 2.27E-1 0.00E+0 2.27E-1 4.07E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.60E-4 A - WA A4 2.05E-10 6.05E-4 4.93E-6 0.00E+0 0.00E+0 0.00E+0 0.00E+0 | fossi A5 2.49E+0 -3.90E-1 2.10E+0 5.28E+0 -2.15E-1 5.06E+0 5.73E-2 0.00E+0 0.00E+0 6.32E-3 primary e ources us use of re STE C/ A5 1.14E-4 6.06E-2 1.00E+10 1.30E-1 0.00E+0 2.96E-1 | I resour RS T(B1 0.00E | ces; AD DDES I +0 1.2; +0 0.00; +0 7.8; +0 7.8; +0 0.00; +0 7.8; +0 0.00; +0 0.00; +0 0.01; +0 0.01; +0 0.01; +0 5.90; +0 5.90; +0 5.6; +0 5.00; +0 0.00; +0 0.00; +0 0.00; +0 0.00; +0 0.00; +0 0.00; +0 0.00; +0 0.00; | PPF = . CCRI B2 4E+00 0E+0 | Abiotic c BE R 1.26E- 0.00E+ 1.26E- 2.27E- 0.00E+ 2.27E- 0.00E+ 2.27E- 0.00E+ 1.45E- 1 | Image: Control of the second state in the s | Dotential CE U 1 7.99 +0 0.00 -1 7.99 +0 1 +1 3.88 +1 3.41 +0 4.79 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +0 0.00 +1 1.16 4 2.03 +8 1.27 +0 1.16 4 2.03 +0 0.00 +0 0.00 +0 0.00 +0 0.00 | for fossi SE ac SE | Iresour C4/1 79E-1 00E+00 00E+01 00E+02 00E+03 00E+04 00E+01 00E+02 00E+03 00E+04 00E+01 00E+01 | rces ing 1 -7.88 0.001 -7.88 -7.88 0.001 -7.88 -7.88 0.001 0.001 0.001 0.001 0.001 -7.70 transferred -7.951 -1.65 -2.554 0.001 0. | Abiotic COEN 3E-2 0 E-1 0 E-5 0 E-1 0 E-5 0 E-1 0 E-5 0 E-1 0 E-5 0 E-1 0 E-5 0 E-1 0 E-5 0 E-1 0 E-5 0 E-1 0 E-5 0 E-1 0 0 E-4 0 0 E+0 0 0 E+0 0 E-5 0 E+0 E+ | 1580 D/1 .00E+0 | 4+A1: D/2 -1.61E+0 0.00E+0 -7.39E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.58E-3 ERM = L ; PENRE I = Use of 0.00CE+0 -1.65E-9 -3.41E-3 -5.19E-4 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 -1.65E-9 -3.41E-3 -5.19E-4 | D/3 -5.08E-1 0.00E+0 -3.26E+1 0.00E+0 -3.26E+1 4.80E-1 0.00E+0 0.00E+0 -3.08E-3 Jse of = Use of f non- SM = Use net fresh D/3 -2.45E-9 -2.38E-1 -1.31E-4 0.00E+0 0.00E+0 0.00E+0 0.00E+0 |

DEGODIDITION OF THE OVOTEM DOUNDARY (V - INOLUDER IN LOA

Environmental Product Declaration modulyss - Tufted carpet tiles, max. total pile weight 1300 g/m² PA 6, 100% regenerated

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EEE = Exported

Caption

thermal energy

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PCR Part A

Product Category Rules for Construction Products from the range of Environmental Product Declarations. Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Background Report, V1.9, Berlin: Institut Bauen und Umwelt e.V. (IBU), Januar 2021

PCR Part B

Product Category Rules for Construction Products from the range of Environmental Product Declarations of Institut Bauen und Umwelt (IBU), Part B: Requirements on the EPD for floor coverings, V1.2, Berlin: Institut Bauen und Umwelt e.V. (IBU), February 2018

PRODIS

Product Information System (PRODIS) of the European Carpet Industry, Gemeinschaft umweltfreundlicher Teppichboden e.V (GUT) and European Carpet and Rug Association (ECRA), http://www.pro-dis.info

REACH

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Last update: 25.03.2014 (Status: 27.06.2018)

VDZ e.V.

Association of German Cement Works, Ed. Environmental Data of the German Cement Industry 2018

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EPD

Environmental Product Declaration

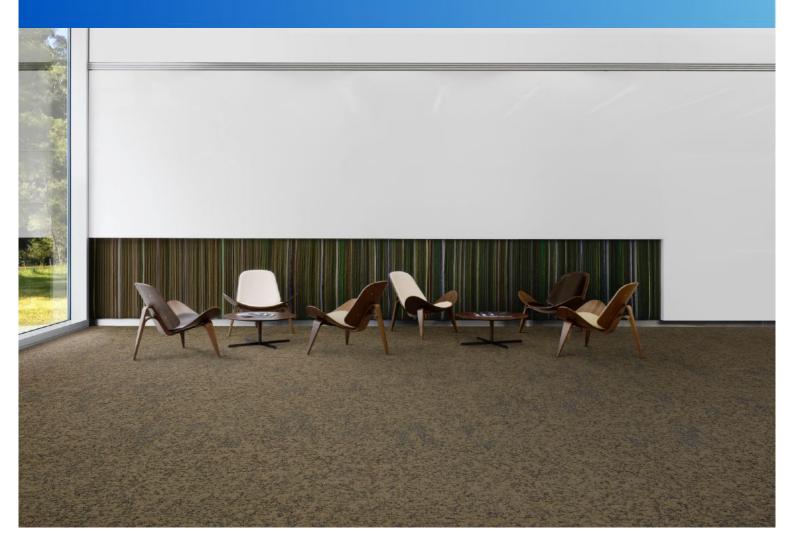
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MOSS ecoBack

surface pile weight: 580 g/m² pile material: polyamide 6 with 100% recycled content backing: ecoBack

These EPD data are <u>only valid</u> in combination with the environmental product declaration EPD-MOD-20210149-CBC1-EN published by Institut Bauen und Umwelt e.V. (IBU) and a GUT/Prodis license

This data set gives product specific LCA results based on the calculation procedure described in the above mentioned EPD.







Calculation method for similar Products of the EPD document

The EPD document is valid for all products with a surface pile weight lower or equal to the declared maximum pile weight of 1300 g/m².

The respective declaration number is EPD-MOD-20210149-CBC1-EN.

This document indicates more specific LCA results for (a) product(s) with identical material compositions and production parameters. The product(s) belong(s) to the same family of products and only differ in its/their pile weight(s).

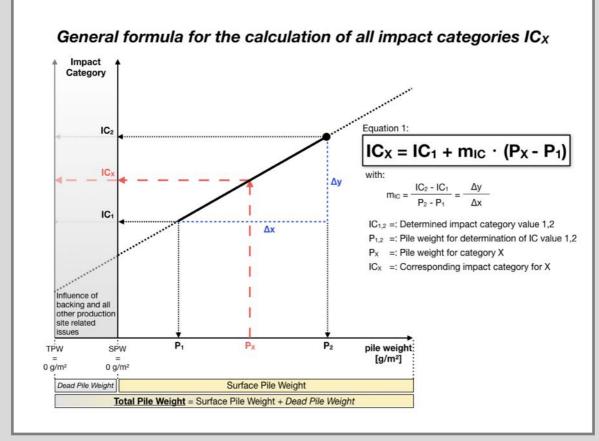
LCA results show a linear correlation with the total pile weight, for all impact categories (IC) and all modules (A-D). It is possible to calculate specific LCA results (IC_x) for every carpet (x) within the declared group of products in relation to its total pile weight (P_x).

The total pile weight (TPW) is the sum of surface pile weight (SPW) and dead pile weight (DPW):

TPW = SPW + DPW



The surface pile weight is the technical relevant value according to EN 1307 and has to be mentioned in technical specification. As shown in the figure below alternatively to the total pile weight the surface pile weight can be used to calculate LCA results (ICx).



Graph 1: General formula for the calculation of all impact categories ICx.



General Information on use stages B1 to B7

LCA results indicate environmental impacts resulting from use stage B1 to B7.

For textile floor coverings only modules B1 (use) and B2 (maintenance) are taken into account. Modules B3 (repair), B4 (replacement), B5 (refurbishment), B6 (operational energy use) and B7 (operational water use) are not relevant during the service life of textile floor coverings.

Module B1 'use' includes emissions to the indoor air during the use stage. Relevant emissions only occur in the first year of life (see LCA: Calculation rules).

Module B2 'maintenance' includes cleaning procedures.

Reference service life (RSL)

The actual service life of textile floor coverings depends on a wide range of various impact factors such as the allocation of the application area to the use class, maintenance, intensity of use and most often fashion and building related aspects. Therefore, technical service life cannot be defined for textile floor coverings.

Total environmental impacts from module B2

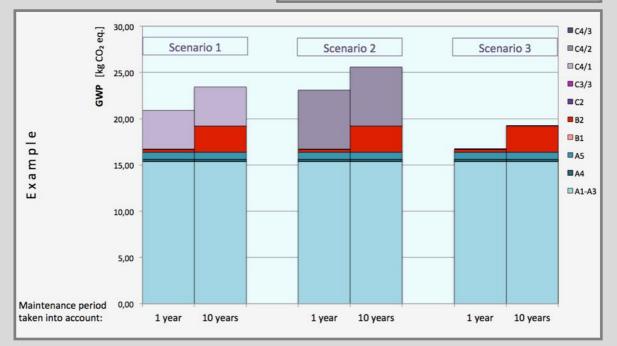
Total environmental impacts have to be calculated by taking into account the service life of textile floor coverings. Therefore, the assumed real life (ARSL) has to be used for the calculation of total environmental impacts taking into account the expected use conditions (see RSL). Module B2 (maintenance) is depending on the service life.

Values for module B2 given in the result tables are indicated for the period of one year. They have to be multiplied by the ARSL of the textile floor covering taking into account building related aspects.

The influence of the maintenance period on the Global Warming Potential (GWP) of the whole life cycle of a textile floor covering - differentiated for 3 end-of-life scenarios - is illustrated in the graph below.

3 end-of-life scenarios:

Scenario 1: 100 % Landfill disposal Scenario 2: 100 % Municipal waste incineration Scenario 3: 100 % Recycling in the cement industry



Graph 2: Global Warming Potential (GWP) - aggregation of module A to module C - taking into account a maintenance period of 1 year compared to a maintenance period of 10 years - for the three declared end-of-life scenarios.



1. Information on the product MOSS ecoBack

Product description

| Name | Value | Unit |
|--------------------------|--|------------------|
| Type of manufacture | tufted tiles | - |
| Yarn type | polyamide 6 with 100% recycled content | - |
| Total pile weight | 880 | g/m ² |
| Surface pile weight | 580 | g/m ² |
| Dead pile weight | 290 | g/m ² |
| Secondary backing | ecoBack | - |
| Product Form | tiles 50 cm x 50 cm | - |
| Max. total carpet weight | 4580 | g/m ² |

Base materials / Ancillary materials

| Name | Value for category | Unit |
|--------------------------------------|--------------------|------|
| Polyamide 6 | 19,2 | % |
| Polyester | 11,8 | % |
| Polypropylene | 0,7 | % |
| Limestone | 35,8 | % |
| Aluminiumhydroxide | 11,0 | % |
| SBR-Latex | 10,7 | % |
| Polyolefin | 9,6 | % |
| Glass fibre | 0,2 | % |
| Additives | 0,9 | % |
| Recycled content out of total weight | 59 % | % |

LCA: Declared Unit

| Name | Value for category | Unit |
|---------------------------|--------------------|-------------------|
| Declared unit | 1,0 | m ² |
| Conversion factor to 1 kg | 4,6 | kg/m ² |

LCA: Scenarios and additional technical information

All indicated values refer to the declared functional unit

Transport to the construction site (A4)

| Name | Value for category | Unit |
|---|--------------------|---------|
| Litres of fuel (truck, EURO 0-5 mix) | 0,0107 | l/100km |
| Transport distance | 700 | km |
| Capacity utilisation (including empty runs) | 55 | % |

Installation in the building (A5)

| Name | Value for category | Unit |
|---------------|--------------------|------|
| Material lost | 0,14 | kg |

Maintenance (B2)

Indication per m² and year

| Name | Value for category | Unit |
|-------------------------------------|--------------------|----------------|
| Maintenance cycle (wet cleaning) | 1,5 | 1/year |
| Maintenance cycle (vacuum cleaning) | 208 | 1/year |
| Water consumption (wet cleaning) | 0,004 | m ³ |
| Cleaning agent (wet cleaning) | 0,09 | kg |
| Electricity consumption | 0,314 | kWh |

End of Life (C1-C4)

| Name | Value for category | Unit |
|--|--------------------|-------------------|
| Collected as mixed construction waste (scenario 1 and 2) | 4,58 | kg/m ² |
| Collected separately (scenario 3) | 4,58 | kg/m ² |
| Landfilling (scenario 1) | 4,58 | kg/m ² |
| Energy recovery (scenario 2) | 4,58 | kg/m ² |
| Energy recovery (scenario 3) | 2,42 | kg/m ² |
| Recycling (scenario 3) | 2,16 | kg/m ² |



LCA: Results for MOSS ecoBack

(calculated with a total pile weight of 880 g/m²)

The declared result figures in module B2 have to be multiplied by the assumed service time (in years) of the floor covering in the building considered (see chapter: 'General Information on use stages B1 to B7').

Information on un-declared modules:

Modules B3 - B7 are not relevant during the service life of the carpet and are therefore not declared. Modules C1, C3/1, C4/2 and C4/3 cause no additional impact and are therefore not declared. Module C2 represents the transport for scenarios 1, 2 and 3.

Description of the system boundary

State of construction phase State of production State of use End of life state Credits and loads after life stop of use / demolition waste management raw material supply reuse, recovery and recycling potential manufacturing maintenance installation replacemen energy use transport transport water use disposal renewal delivery repair use D A1 A2 X A3 X A4 X A5 X B2 B3 B4 B5 B6 X MND MND MND C1 C2 C3 X B1 C4 B7 MND X Х MND

Results for the LCA - Environmental impact: 1 m² floor covering

| Para- meter | Unit | A1-A3 | A4 | A5 | B1 | B2 | C2 | C3/2 | C3/3 | C4/1 | D/A5 | D/1 | D/2 | D/3 |
|----------------|---------------|----------|-----------|----------|----------|----------|-----------|----------|----------|----------|-----------|----------|-----------|-----------|
| GWP | [kg CO2-eq] | 6,89E+00 | 2,74E-01 | 6,13E-01 | 0,00E+00 | 2,91E-01 | 1,52E-02 | 5,80E+00 | 5,86E+00 | 3,11E-01 | -2,69E-02 | 0,00E+00 | -6,44E-01 | -3,58E-01 |
| ODP | [kg CFC11-eq] | 1,28E-08 | 4,78E-17 | 3,84E-10 | 0,00E+00 | 1,21E-08 | 2,65E-18 | 2,13E-15 | 2,95E-15 | 1,05E-15 | -4,10E-16 | 0,00E+00 | -9,74E-15 | -2,17E-15 |
| AP | [kg SO2-eq] | 1,85E-02 | 1,13E-03 | 6,93E-04 | 0,00E+00 | 1,14E-03 | 6,28E-05 | 3,32E-03 | 3,53E-03 | 8,07E-04 | -3,11E-05 | 0,00E+00 | -7,40E-04 | -1,28E-03 |
| EP | [kg PO4)3-eq] | 3,55E-03 | 2,88E-04 | 1,40E-04 | 0,00E+00 | 3,17E-04 | 1,60E-05 | 8,08E-04 | 8,53E-04 | 8,76E-04 | -4,28E-06 | 0,00E+00 | -1,02E-04 | -1,69E-04 |
| POCP | [kg ethen-eq] | 1,02E-03 | -4,85E-04 | 2,12E-05 | 6,29E-05 | 1,47E-04 | -2,69E-05 | 2,05E-04 | 1,41E-04 | 7,26E-05 | -2,86E-06 | 0,00E+00 | -6,82E-05 | -1,20E-04 |
| ADPE | [kg Sb-eq] | 6,19E-06 | 2,42E-08 | 1,93E-07 | 0,00E+00 | 4,43E-06 | 1,35E-09 | 1,94E-07 | 2,06E-07 | 5,97E-08 | -5,04E-09 | 0,00E+00 | -1,20E-07 | -2,80E-07 |
| ADPF | [MJ] | 1,43E+02 | 3,73E+00 | 4,50E+00 | 0,00E+00 | 6,77E+00 | 2,07E-01 | 2,99E+00 | 3,79E+00 | 4,64E+00 | -3,87E-01 | 0,00E+00 | -9,29E+00 | -3,23E+01 |

GWP = Global warming potential; **ODP** = Depletion potential of the stratospheric ozone layer; **AP** = Acidification potential of land and water; **EP** = Eutrophication potential; **POCP** = Formation potential of tropospheric ozone photochemical oxidants; **ADPE** = Abiotic depletion potential for non-fossil resources; **ADPF** = Abiotic depletion potential for fossil resources



| Resu | Results for the LCA - Resource use: 1 m ² floor covering | | | | | | | | | | | | | |
|----------------|---|----------|----------|-----------|----------|----------|----------|-----------|-----------|----------|-----------|----------|-----------|-----------|
| Para- meter | Unit | A1-A3 | A4 | A5 | B1 | B2 | C2 | C3/2 | C3/3 | C4/1 | D/A5 | D/1 | D/2 | D/3 |
| PERE | [MJ] | 5,14E+01 | 2,09E-01 | 1,97E+00 | 0,00E+00 | 1,24E+00 | 1,16E-02 | 5,03E-01 | 7,39E-01 | 3,48E-01 | -1,06E-01 | 0,00E+00 | -2,51E+00 | -5,08E-01 |
| PERM | [MJ] | 3,90E-01 | 0,00E+00 | -3,90E-01 | 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 |
| PERT | [MJ] | 5,18E+01 | 2,09E-01 | 1,58E+00 | 0,00E+00 | 1,24E+00 | 1,16E-02 | 5,03E-01 | 7,39E-01 | 3,48E-01 | -1,06E-01 | 0,00E+00 | -2,51E+00 | -5,08E-01 |
| PENRE | [MJ] | 1,17E+02 | 3,74E+00 | 4,97E+00 | 0,00E+00 | 7,86E+00 | 2,08E-01 | 3,73E+01 | 3,83E+01 | 4,79E+00 | -4,73E-01 | 0,00E+00 | -1,13E+01 | -3,26E+01 |
| PENRM | [MJ] | 3,43E+01 | 0,00E+00 | -2,15E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | -3,41E+01 | -3,41E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| PENRT | [MJ] | 1,51E+02 | 3,74E+00 | 4,75E+00 | 0,00E+00 | 7,86E+00 | 2,08E-01 | 3,29E+00 | 4,26E+00 | 4,79E+00 | -4,73E-01 | 0,00E+00 | -1,13E+01 | -3,26E+01 |
| SM | [kg] | 1,47E+00 | 0,00E+00 | 4,41E-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 | 0,00E+00 | 4,80E-01 |
| 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] | 1,37E-01 | 2,38E-04 | 4,71E-03 | 0,00E+00 | 4,13E-03 | 1,33E-05 | 1,84E-02 | 1,86E-02 | 4,42E-05 | -1,03E-04 | 0,00E+00 | -2,45E-03 | -3,08E-03 |

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PERT = Total use of non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources; PENRM = Use of non-renewab

Results for the LCA - Output flows and waste categories: 1 m² floor covering

| Para- meter | Unit | A1-A3 | A4 | A5 | B1 | B2 | C2 | C3/2 | C3/3 | C4/1 | D/A5 | D/1 | D/2 | D/3 |
|----------------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|-----------|-----------|
| HWD | [kg] | 2,57E-03 | 1,88E-10 | 7,71E-05 | 0,00E+00 | 5,90E-10 | 1,04E-11 | 1,24E-08 | 1,25E-08 | 8,61E-10 | -1,06E-10 | 0,00E+00 | -2,53E-09 | -2,45E-09 |
| NHWD | [kg] | 6,96E-01 | 5,56E-04 | 5,57E-02 | 0,00E+00 | 5,62E-03 | 3,09E-05 | 1,15E+00 | 1,15E+00 | 4,56E+00 | -2,21E-04 | 0,00E+00 | -5,26E-03 | -2,38E-01 |
| RWD | [kg] | 3,14E-03 | 4,53E-06 | 9,78E-05 | 0,00E+00 | 3,32E-04 | 2,51E-07 | 1,22E-04 | 1,89E-04 | 5,56E-05 | -3,40E-05 | 0,00E+00 | -8,08E-04 | -1,31E-04 |
| CRU | [kg] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| MFR | [kg] | 1,37E-02 | 0,00E+00 | 1,30E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,26E+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 |
| EEE | [MJ] | 0,00E+00 | 0,00E+00 | 2,66E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 7,76E+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 | 4,91E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,44E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |

 Caption
 HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling;

 MER = Materials for energy recovery; EEE = Exported electrical energy; EEE = Exported thermal energy