ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2

Owner of the Declaration	
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-ACF-20210073-ICA1-EN
Issue date	14/09/2022
Valid to	13/09/2027

Amorim Wise Inspire 700 SRT Amorim Cork Flooring S.A.



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1. General Information

Amorim Cork Flooring, S.A.

Programme holder

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

Declaration number

EPD-ACF-20210073-ICA1-EN

This declaration is based on the product category rules: Floor coverings, 02/2018 (PCR checked and approved by the SVR)

Issue date

14/09/2022

Valid to

13/09/2027

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

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

2. Product

2.1 Information about the enterprise

Amorim Cork Flooring, a subsidiary of Corticeira Amorim, is the world leader in producing and distributing cork-incorporated floor and wall coverings. It has a unique manufacturing technology that combines traditional production methods with cuttingedge technology to develop unique cork products with a large range of applications, in over 70 countries worldwide. The incorporated cork on the different floor and wall products provides a level of comfort that cannot be achieved with any other covering materials, provides a natural thermal insulation, has impact resistance and makes the products adaptable to residential and commercial spaces.

2.2 Product description/Product definition Amorim Wise Inspire 700 SRT (also branded as "Decolife Nature Plus" and "Cortex Plusnatura Ultra

Amorim Wise Inspire 700 SRT

Owner of the declaration

Amorim Cork Flooring, S.A. Rua do Ribeirinho, nº 202 Apartado 13 4536 - 907 S. Paio Oleiros Portugal

Declared product / declared unit

1 m² of Amorim Wise Inspire 700 SRT

Scope:

The data on which the Life Cycle Assessment is based is from the manufacturing process of Amorim Wise Inspire 700 STR taking place in one industrial unit of Amorim Cork Flooring (Oleiros) and refers to the year 2019. For the construction, use, end-of-life stages and benefits and loads, data were estimated based on background research and Amorim Cork Flooring supply chain downstream activities. Data associated with the product's maintenance were obtained through benchmark research.

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+A2. 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

Minke

Matthias Klingler (Independent verifier)

Pro") is a sustainable waterproof floating floor with an innovative cork hardcore, that provides reinforced stability and comfort, and a non-PVC printed film top layer. This product is used as a floor covering for domestic or commercial use, providing several physical characteristics to the floor, such as stability, comfort, thermal and noise insulation, among others. 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 CPR applies. The product needs a Declaration of Performance taking into consideration EN 14041: 2004/AC:2006 Resilient, textile and laminate floor coverings - Essential characteristics and the CE-marking. For the application and use the respective national provisions apply.

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2.3 Application

Amorim Wise Inspire 700 SRT fits the most demanding needs for domestic areas. This flooring product meets the requirements of the usage classes 33 for commercial use and 23 for domestic use according to *ISO 10874* standard.

2.4 Technical Data

Relevant technical construction data for the product is referred to in the following table.

Constructional data

Name	Value	Unit
Product thickness	7.2	mm
Grammage	6360	g/m ²
Abrasion Class	33	-
Product Form	Plank	-
Total thickness	7.2	mm
Density	883.33	kg/m ³

Declaration of Performance with respect to its Essential Characteristics according to *EN 14041:2004/AC:2006* Resilient, textile and laminate floor coverings - Essential characteristics.

2.5 Delivery status

The dimensions of rectangular panels of Amorim Wise Inspire 700 SRT are declared in the following table.

Dimensions of panels (ISO 24337)	Specification
Dimensions	1225 x 190 mm x 7,2mm
Variation width	≤ 0,20 mm
Variation length	≤ 0,5 mm

The layers composing Amorim Wise Inspire 700 SRT are shown in the following table.

Components	Value	Unit
Non-PVC film layer	0,37	mm
Superior cork layer	1,00	mm
Cork hard core	4,80	mm
Backing cork layer	1,00	mm

2.6 Base materials/Ancillary materials

Components

The primary product components and materials of the product are indicated as a percentage mass in the following table.

Name	Value	Unit
Recycled high-density polyethylene (HDPE)	54,94	%
Granulated cork	19,59	%
Natural fibres	7,29	%
High-density polyethylene (HDPE)	5,89	%

Other components	5,82	%
Polyethylene Terephthalate (PET) film layer	5,26	%
Resin	1,22	%

The products include partial articles which contain substances listed in the candidate list of *REACH Regulation 1907/2006/EC* (date: 19.01.2021) exceeding 0.1 percentage by mass: no

This product/article/at least one partial article contains other carcinogenic, mutagenic, reprotoxic (CMR) substances in categories 1A or 1B which are not on the candidate list, exceeding 0.1 percentage by mass: no.

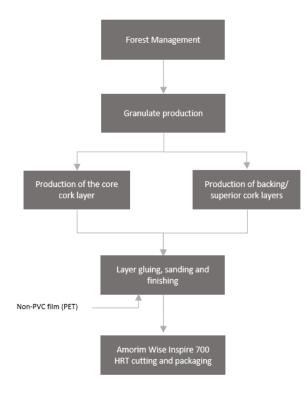
Biocide products were added to this construction product or it has been treated with biocide products (this then concerns a treated product as defined by the (EU) *Ordinance on Biocide Products No. 528/2012*): no.

2.7 Manufacture

The manufacturing process of Amorim Wise Inspire 700 SRT begins with cork granulate production, using cork that was previously treated at Amorim Florestal. Cork granulate is blended into a mixture with resin to produce the backing and superior cork agglomerated layers. These layers go through cutting and sanding, to fit the requirements, before they are shipped to the same industrial unit as the core layer, for assembly.

The cork agglomerated core layer is produced by binding and mixing granulated cork together with natural fibres, soy oil, high-density polyethylene (HDPE) and recycled HDPE. The core layer is presanded and stabilized for the glueing process.

The different layers, that compose the final product structure are glued together using glue and adhesives as binding agents. A non-PVC film finishing layer is applied to the top of the product. Then follows a pressure and heat process, before going through sanding and the final cut of the pieces. The product is then packed and stored in the warehouse, ready for shipment.



2.8 Environment and health during manufacturing

During the production process, the environmental and health aspects are considered.

Air: The emission of particles and pollutants are collected in filter systems and the levels are below the permissible limits.

Water: The product requires a low water consumption that is (totally) treated in an Industrial Waste Water Treatment Plant (IWWTP).

Noise: Noise resulting from operation during the production process is below the permissible limits.

2.9 Product processing/Installation

Amorim Wise Inspire 700 SRT can be installed on top of most hard surfaces such as resilient floor coverings and ceramic tiles which are sufficiently fixed, completely levelled and have no loose areas.

Soft subfloors such as carpets and similar must be removed. For the product installation, no underlay is required. Old resilient floor coverings (like pvc, linoleum, cork...) must be glued without loose areas.

For radiant-heated subfloors, the temperature of the subfloor must not exceed 28°C (82°F). All types of concrete and ceramic subfloors must be even and dry, variations should not exceed 5mm in 2m (0.20" in 6.6 feet) and flat.

2.10 Packaging

Resilient floor coverings are delivered in packages designed to protect the corners, edges and surfaces of the product, under normal conditions of transport and handling (compliant with *EN 16511*).

Product planks are laid in cardboard boxes, wrapped in packaging film and placed on wooden pallets, secured by plastic straps.

These packaging materials can be collected separately and recycled.

Pallets can either be re-used (Euro pallets) or recycled as wood.

2.11 Condition of use

Amorim Wise Inspire SRT flooring products have in their composition a significant amount of natural renewable raw materials, meaning that they have stored about 2,9 kg CO_2/m^2 of product resulting from photosynthesis.

2.12 Environment and health during use

The following table indicates the information about safety properties.

Safety properties - EN 14041	Standard- Test Method	Unit	Specification
Fire resistance	EN ISO 11925-2 + EN ISO 9239-1 (classification according to EN 13501-1)	Class	Dfl-S1
Slip resistance	EN 13893	Class	DS
Formaldehyde emission	EN 717-1	Class	E1
Content pentachlorophenol (PCP)	EN 12673	% mg/kg	Undetectable

2.13 Reference service life

The expected service life of the product was determined based on empirical experience of the manufacturer, considering the different use classes, according to *ISO 10874*. The following table indicates the expected service life for domestic, commercial and industrial uses.

Application area	Class	Expected service life
Domestic	23	25 years
Commercial	33	15 years

2.14 Extraordinary effects

Fire

Fire performance according to *EN 13501 – 1* (building products) of Amorim Wise Inspire 700 SRT is Dfl-S1.

Water

There are no environmental impacts on water identified in the use stage of the product since the product is mainly composed of natural materials that are not hazardous to water masses.

Mechanical destruction

There is no potential harm to health and environment known resulting from mechanical destruction of the product.

2.15 Re-use phase

The product is mainly composed of cork, wood, HDPE and PET. They can be shredded, granulated or powdered and then re-melted to make a secondary input material. Waste from the product can be reused in the process as a replacement for some of the raw materials. This type of flooring can also be reused, although its service life is expected to be less than the original warranty from the manufacturer. Regarding energy recovery, wood, cork, HDPE and PET can be incinerated in order to produce thermal energy or electricity.

2.16 Disposal

According to the *European Waste Catalogue* the used floor covering can be classified in the main category "17 Construction and Demolition Waste (including road construction)". Considering the specific constitution of this floor covering, and assuming that the layers cannot be separated at the end of life, the waste code applied is the following:17 09 04 Mixed construction and demolition waste other than those mentioned in 17 09 01, 17 09 02 and 17 09 03.



These types of waste materials can be recovered according to the *European Waste Framework Directive*.

2.17 Further information

Other information can be found on the website of the product Amorim Wise Inspire 700 SRT: https://www.amorimwise.com/products/wood/inspire-700-srt-122

3. LCA: Calculation rules

3.1 Declared Unit

The declared unit is 1 m^2 of floor covering with the following characteristics (average of both industrial units):

Declared unit

Name	Value	Unit
Declared unit	1	m ²
Grammage	7.05	kg/m ²

3.2 System boundary

Type of EPD: cradle to grave

Modules A1-A3 Production: Include processes that provide materials, transport of the material to the manufacturing site, energy supply, product manufacturing and transport processes up to the factory gate, as well as waste processing. Biogenic carbon contained in the product and the packaging materials are included in this module.

Module A4 Transport: Transport of the floor covering from the factory gate to the place of installation.

Module A5 Installation: Includes material losses (offcuts) during the installation of the floor covering, disposal of offcuts and recycling of packaging material.

Module B2 Maintenance: includes provision of energy, for vacuum cleaning one time per week, cleaning agent and water consumption, for wet cleaning two times per year of the cleaning of the floor covering.

The LCA results in this EPD are declared for a oneyear usage.

Module C1 De-construction: The floor covering is deconstructed manually and no additional environmental impact is caused.

Module C2 Transport: Includes transportation of the postconsumer waste to the waste incineration plant, to Amorim Cork Flooring industrial site for recycling or to a landfill.

Module C3 Waste processing and Module C4 Disposal, end-of-life scenarios are declared for:

- 20 % recycling in Amorim Cork Flooring and reincorporation in the agglomeration process in Amorim Cork Flooring (Scenario 1)
- 10 % incineration in a waste incineration plant (WIP) (Scenario 2)
- 70 % landfilling (Scenario 3)

Module D Benefits and Loads: Declares potential benefits from all net flows given in module A5 (packaging material recycling), C3 (for recycling, and

related material substitution) and C4 (for incineration, and related energy substitution) that leave the product boundary system after having passed the end-of-waste state.

Module D is declared for each scenario separately.

3.3 Estimates and assumptions

CO2 intake due to photosynthesis associated to cork and wood was considered. Recycled materials used in the product's manufacture enter the system with no environmental burdens from its production, due to the Polluter Pays (PP) allocation method. Information on components and the average weight percentage of adhesives was obtained from their technical data sheets.

3.4 Cut-off criteria

All input and output flows have been considered at 100 %, including all available data associated directly to the manufacture of the product was were included in the LCA (i.e. all raw materials, electric and thermal power consumed, transports). Hence, the study complies with the cut-off criteria of 1 % of renewable and non-renewable primary energy usage and 1 % of the total mass of that unit process.

3.5 Background data

Specific data was used based on the average production in 2019. For processes in which the producer has no influence or specific information, like the extraction of raw materials, end-of-life treatment and generic data from the following main sources were considered:

- Ecoinvent 3.5
- PRé Consultants

3.6 Data quality

Specific data is referred to the production in 2019. Data sets of processes from *Ecoinvent* database are less than 3 years old. Data sets are based on literature and average data from specific industrial units. Regarding geography coverage, whenever possible average European data and Portugal-specific energy mix were used. In cases where no average European data was available, the most approximate data set was used. Considering these aspects, the data used in this study is considered of high quality.

3.7 Period under review

The specific data collected from the manufacturer refer to the year 2019.

3.8 Allocation

Energy, raw materials, water, wastewater and air emissions were allocated to this product using mass allocation (i.e. allocation based on the proportional mass of each of the products) when no further subdivision of unit processes was deemed feasible.

3.9 Comparability

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 *SimaPro software* (*version 9.1*) and from the *ecoinvent 3.5* database, 2018.

4. LCA: Scenarios and additional technical information

Characteristic product properties Information on biogenic Carbon

The product is composed of 26,88 % of materials that contain biogenic carbon. Packaging material, which represents 6 % of the packed finished product, also containing biogenic carbon is accounted for in this section

Information on describing the biogenic Carbon Content at factory gate

Name	Value	Unit
Biogenic Carbon Content in product	0.795	kg C
Biogenic Carbon Content in accompanying packaging	0.119	kg C

Note: 1 kg biogenic Carbon is equivalent to 44/12 kg of CO_2

The following information refers to the declared modules and is the basis for calculations or can be used for further calculations. The indicated values refer to the declared unit.

Transport to the construction site (A4)

Name	Value	Unit
Transport distance (by lorry 16-32 metric tons)	230	km
Transport distance (by lorry 3.5- 7.5 metric tons)	5.00	km
Transport distance (by ship)	2000	km

Installation in the building (A5)

<u> </u>		
Name	Value	Unit
Auxiliary	-	kg
Material loss	4.5	%
Packaging wasto is considered to be recycled and		

Packaging waste is considered to be recycled and installation waste is considered to be disposed of in a landfill.

Maintenance (B2)

Name	Value	Unit
Maintenance cycle (wet cleaning)	2	а
Maintenance cycle (vacuum cleaning)	52	а
Electricity consumption	0.1	kWh
Water consumption	0.001	m ³
Auxiliary (cleaning agent)	0.02	kg

An average service lifetime of 20 years was considered, due to the application area of the product being domestic, as well as commercial.

Reference service life

Name	Value	Unit
Reference service life (for domestic use, according to ISO 15686)	25	а

Reference service life (for		
commercial use, according to ISO	15	а
15686)		

End of Life (C1-C4)

Name	Value	Unit
Transportation from the construction site (C2/1) (for the recycling EoL by lorry 16-32 metric tons)	235	km
Transportation from the construction site (C2/1) (for the recycling EoL - by ship)	2000	km
Transportation from the construction site (C2/2) (for the incineration EoL - by lorry 16-32 metric tons)	50	km
Transportation from the construction site (C2/3) (for the landfilling EoL - by lorry 16-32 metric tons)	50	km
Energy recovery	0.71	kg
Recycling	1.41	kg
Landfilling	4.94	kg

For module C1, is considered that the floorcovering is de-constructed manually with no additional environmental impacts.

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

For module D the potential benefits given in modules A5, C3 and C4 are declared, considering the recycling of packaging material waste (applicable to all EoL scenarios), energy benefits (incineration EoL) and raw material flows and transportation (recycling EoL).

For waste incineration combustion in a WIP (R1 < 0.6) with energy recuperation is considered.

For the recycling scenario, the benefits are obtained through the reincorporation of the end-of-life product to the production of Amorim Wise Inspire SRT, replacing 1 % of the granulated cork and 3 % of the recycled HDPE, that are used as raw materials, avoiding the production of granulated cork and transportation of these materials.

Biogenic carbon incorporated in the product is released as CO_2 emissions in the end of life.



5. LCA: Results

The results for module B2 refer to a period of one year. For the calculation of the impact of B2 for a certain service life the values for B2 have to be multiplied by the estimated service life in years. For modules C2, C3 and C4 the results are presented considering:

- Scenario 1 applies to 20 % recycling

- Scenario 2 applies to 20 % recycling

- Scenario 2 applies to 10 % inclueration - Scenario 3 applies to 70 % landfilling

Results for modules C2/1, C2/2, C2/3, C3/1, C4/2, C4/3, D/1, D/2 and D/3 the results are presented for 100 % of each scenario.

Information on un-declared modules:

Modules B3 - B7 are not declared, since the use stage is declared for 1 year.

Disclaimer: EP-freshwater: This indicator has been calculated as "kg P eq" as required in the characterization model (EUTREND model, Struijs et al., 2009b, as implemented in ReCiPe; http://eplca.jrc.ec.europa.eu/LCDN/developerEF.xhtml)

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; ND = MODULE OR INDICATOR NOT DECLARED; MNR = MODULE NOT RELEVANT)

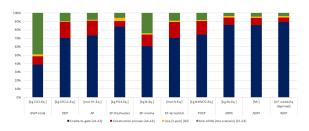
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Raw material supply	Transport	Manufacturing	Transport from the gate to the site	Assembly	Use		Maintenance	Repair	Replacement	Refurbishment		Operauonal energy use	Operational water use	De-construction	demolition	Transport	Waste processing	Disposal	Baired	Recovery-	potential
A1	A2	A3	A4	A5	B1	E	32	B3	B4	В	5	B6	B7	C1		C2	C3	C4		D	
Х	Х	Х	X	Х	ND		x	MNR	MNR	R MN	IR	ND	ND	X		Х	Х	X		Х	
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	ndicator	l	Jnit	A1-A3	A4	A5	B2	C1	C2	C2/1	C2/2	C2/3	Сз	C3/1	C4	C4/2	C4/3	D	D/1	D/2	D/3
GW	P-total	[kg C	CO2-Eq.]	2.78E +0	4.68E- 1	2.68E- 1	1.50E- 1	- 0.00E +0	1.34E- 1	4.36E- 1	5.83E 2	-5.83E	-7.20E-	3.60E +0	4.21E +0	1.75E +1	7.29E- 1	- 9.10E-			1.91E- 1
GWF	P-fossil	[kg C	CO ₂ -Eq.]	5.86E +0	4.68E- 1	2.57E- 1	1.42E- 1	- 0.00E +0	1.34E- 1	4.35E- 1	5.83E 2	-5.83E	-1.61E-	8.06E- 1	1.98E +0	1.47E +1	7.29E- 1	1 - 1.36E +0	1 - 9.60E- 1	+0 - 9.88E +0	- 2.63E- 1
GWP-	biogenic	[kg C	CO ₂ -Eq.]	- 3.35E +0	2.13E- 4	5.68E- 1	5.53E- 3	- 0.00E +0	5.21E- 5	2.05E- 4	1.39E 5	-1.39E	-5.57E- 1	2.78E +0	2.23E +0	2.78E +0	2.78E +0	4.55E- 1		1	
GW	P-luluc	[kg C	:O ₂ -Eq.]	2.65E- 1	1.91E- 4	1.14E- 2	8.02E- 3	- 0.00E +0	4.99E- 5	1.76E- 4	1.85E 5	-1.85E 5	-2.09E- 3	1.05E- 2	3.38E- 5	3.53E- 5	4.33E- 5	- 4.54E- 3	- 9.42E· 3	- 1.92E- 2	- 1.06E- 3
0	DP	[kg CF	C11-Eq.]	4.17E- 7	1.02E- 7	1.92E- 8	5.61E 9	- 0.00E +0	2.97E- 8	9.48E- 8	1.34E 8	-1.34E 8	-8.83E- 9	4.42E- 8	2.01E- 8	1.86E- 8	2.60E- 8	- 9.16E- 8	- 1.31E· 7	- 4.43E- 7	- 3.01E- 8
ļ	AP	[mol	H⁺-Eq.]	3.42E- 2	5.75E- 3	1.50E- 3	6.72E· 4	- 0.00E +0	1.32E- 3	5.44E- 3	2.94E 4	-2.94E 4	-1.36E- 3	6.79E- 3	7.55E- 4	2.42E- 3	7.34E- 4	- 7.55E- 3	- 6.28E· 3	- 5.09E- 2	- 1.72E- 3
EP-fre	shwater	[kg F	PO₄-Eq.]	1.38E- 3	4.68E- 5	5.97E- 5	5.80E 5	- 0.00E +0	1.24E- 5	4.33E- 5	4.62E 6	-4.62E 6	-6.22E- 5	3.11E- 4	2.18E- 5	5.13E- 5	2.37E- 5	- 6.56E- 4	- 2.48E- 4	- 5.36E- 3	- 1.01E- 4
EP-r	marine	[kg	N-Eq.]	7.94E- 3	3	3.51E- 4	4	+0	4	3	5	5	-2.49E- 4	3	3	3	3.97E- 3	- 1.64E- 3	1.99E- 3	9.59E- 3	4.00E- 4
EP-te	rrestrial	[mo	IN-Eq.]	7.05E- 2	2	3.13E- 3	1.36E 3	+0	3.68E- 3	2	3	3	-2.18E- 3	2	2.98E- 3	2	2.51E- 3	1.64E- 2 -	1.69E- 2 -	9.76E- 2 -	4.67E- 3
PC	CP	[kg NIV	IVOC-Eq.]	2	4.05E- 3	1.11E- 3	4	+0	1.01E- 3	3	4	4	4	3	3	2.94E- 3	3	4.93E- 3 -	7.11E- 3	2.57E- 2 -	1.34E- 3
A	DPE	[kg \$	Sb-Eq.]	5	7	7	7	- 0.00E +0	7	7	7	7	7	7	7	7	7	1.88E- 6 -	2.68E- 6 -	4.38E- 6 -	1.30E- 6 -
A	DPF		MJ]	+2	+0	+0	+0	+0	+0	+0	1	1	2.07E +0	+1	1.59E +0	+0	2.01E +0	1.87E +1 -	1.39E +1 -	1.30E +2 -	4.20E +0 -
W		de	vorld-Eq prived] al warming	+0	2	1	2	-0.00E +0	2	2	3	3	-8.35E- 2	1	2	2	2	1	1	+0	2.63E-
Captio			n potentia fossil re	al; POC	P = Fo	rmatio	י potei	ntial of t	roposp	heric o	zone	photocl	nemical	l oxidar	nts; AD	PE = A	, biotic o	depletic	on pote		

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| Indicator | | A1-A3 | A4
 | A5
 | B2
 | C1 | C2 | C2/1 | C2/2 | C2/3
 | C3 | C3/1 | C4 | C4/2 | C4/3 | D | D/1 | D/2
 | D/3 |
| PERE | [MJ] | 8.85E+
1 | 1.07E-
1
 | 3.81E+
0
 | 1.03E-
1
 | 0.00E+
0 | 2.80E-
2 | 9.93E-
2 | 1.02E-
2 | 1.02E-
2
 | 2.18E+
0 | 1.09E+
1 | 3.95E+
0 | 3.93E+
1 | 3.82E-
2 | -
8.18E+
0 | -
6.56E+
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7.94E+
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| PERM | [MJ] | 3.92E+
1 | 0.00E+
0
 | 7.54E-
1
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2
 | 0.00E+
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1 | 0.00E+
0 | -
2.47E+
0 | -
8.40E+
0 | -
7.94E+
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| PERT | [MJ] | 1.28E+
2 | 1.07E-
1
 | 4.56E+
0
 | 1.74E-
1
 | 0.00E+
0 | 2.80E-
2 | 9.93E-
2 | 1.02E-
2 | 1.02E-
2
 | -
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0 | -
2.83E+
1 | 3.05E-
2 | 3.77E-
2 | 3.82E-
2 | -
1.07E+
1 | -
1.50E+
1 | -
2.10E+
1
 | -
7.94E-
0 |
| PENRE | [MJ] | 3.01E+
1 | 6.96E+
0
 | 1.38E+
0
 | 9.89E-
1
 | 0.00E+
0 | 2.04E+
0 | 6.48E+
0 | 9.33E-
1 | 9.33E-
1
 | 2.07E+
0 | 1.03E+
1 | 1.02E+
1 | 8.78E+
1 | 2.01E+
0 | -
1.74E+
1 | -
9.43E+
0 | -
1.26E+
2
 | -
4.20E-
0 |
| PENRM | [MJ] | 8.78E+
1 | 0.00E+
0
 | 3.77E+
0
 | 1.45E+
0
 | 0.00E+
0 | 0.00E+
0 | 0.00E+
0 | 0.00E+
0 | 0.00E+
0
 | -
1.76E+
1 | -
8.78E+
1 | -
8.59E+
0 | -
8.59E+
1 | 0.00E+
0 | -
1.31E+
0 | -
4.48E+
0 | -
4.20E+
0
 | 0.00E·
0 |
| PENRT | [MJ] | 1.18E+
2 | 6.96E+
0
 | 5.15E+
0
 | 2.43E+
0
 | 0.00E+
0 | 2.04E+
0 | 6.48E+
0 | 9.33E-
1 | 9.33E-
1
 | -
1.55E+
1 | -
7.74E+
1 | 1.59E+
0 | 1.86E+
0 | 2.01E+
0 | -
1.87E+
1 | -
1.39E+
1 | -
1.30E+
2
 | -
4.20E·
0 |
| SM | [kg] | 3.92E+
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+ | | 0.00E+
0 | 0.00E+
0 | 0.00E+
0 | - | -
7.05E+
0 | 0.00E+
 | |
| RSF | [MJ] | 0.00E+
0 | 0.00E+
 | 0.00E+
 | 0.00E+
0
 | 0.00E+
0 | 0.00E+
0 | 0.00E+ | 0.00E+
0 | 0.00E+
0
 | 0.00E+
0 | 0.00E+
0 | 0.00E+
0 | 0.00E+
0 | 0.00E+ | - | - | 0.00E+
 | 0.00E |
| NRSF | [MJ] | - | -
 | 0.00E+
 | -
 | - | - | - | - | -
 | - | - | - | - | <u> </u> | - | - | -
 | - |
| FW | [m³] | • | 6.75E-
3
 | <u> </u>
 | -
 | - | - | 6.29E-
3 | - | -
 | - | - | - | - | 3.90E-
3 | - | -4.44E- | -
 | - |
| FSULT | | HEL | CA
 | WAS
 | TEC
 | | | | | ater
 | T.EL | <u>awc</u> | 2000 | rdina | to El | 159 | 04+4 | 2
 | |
| | norim \ | Vise | 700 S
 | SRT
 |
 | | | | | UTPU
 | | | | | | | |
 | D/3 |
| m2 An | norim \ | Vise
A1-A3
1.48E- | 700 S
A4
4.11E-
 | A5
6.42E-
 | B2
2.09E-
 | C1
0.00E+ | C2
1.17E- | C2/1
3.78E- | ND O
C2/2
5.19E- | UTPU
C2/3
5.19E-
 | C3
1.21E- | C3/1
6.07E- | C4
3.02E- | C4/2
1.64E- | C4/3
1.98E- | D
-2.74E- | D/1
-1.95E- | D/2
-1.88E-
 | |
| m2 An
Indicator | norim V
Unit | Nise
A1-A3 | 700 S
A4
4.11E-
6
 | A5
 | B2
2.09E-
6
 | C1
0.00E+
0 | C2
1.17E-
6 | C2/1
3.78E-
6 | ND OI
C2/2 | UTPU
C2/3
5.19E-
7
 | C3 | C3/1
6.07E-
6
4.42E- | C4 | C4/2
1.64E-
5 | C4/3
1.98E-
6 | D
-2.74E-
5 | D/1
-1.95E-
5 | D/2
-1.88E-
4
 | -6.79E |
| m2 An
Indicator
HWD | Unit | A1-A3
1.48E-
4
8.76E-
1
2.01E-
4 | 700 \$
A4
4.11E-
6
2.15E-
1
4.65E-
5
 | A5
6.42E-
6
6.83E-
1
9.20E-
6
 | B2
2.09E-
6
2.67E-
2
4.55E-
6
 | C1
0.00E+
0
0.00E+
0
0.00E+
0 | C2
1.17E-
6
7.40E-
2
1.35E-
5 | C2/1
3.78E-
6
2.02E-
1
4.34E-
5 | C2/2
5.19E-
7
4.21E-
2
6.03E-
6 | C2/3
5.19E-
7
4.21E-
2
6.03E-
6
 | C3
1.21E-
6
8.84E-
3
5.11E-
6 | C3/1
6.07E-
6
4.42E-
2
2.55E-
5 | C4
3.02E-
6
5.07E+
0
8.79E-
6 | C4/2
1.64E-
5
4.12E-
1
4.12E-
6 | C4/3
1.98E-
6
7.19E+
0
1.20E-
5 | D
-2.74E-
5
-1.61E-
1
-6.44E-
5 | D/1
-1.95E-
5
-2.84E-
1
-6.00E-
5 |
D/2
-1.88E-
4
-6.89E-
1
-4.27E-
4 | -6.79E
6
-5.03E
2
-1.39E
5 |
| m2 An
Indicator
HWD
NHWD | Norim V
Unit
[kg]
[kg] | Nise
A1-A3
1.48E-
4
8.76E-
1
2.01E-
4
8.90E-
2 | 700 \$
A4
4.11E-
6
2.15E-
1
4.65E-
5
0.00E+
0
 | A5
6.42E-
6
6.83E-
1
9.20E-
6
0.00E+
0
 | B2
2.09E-
6
2.67E-
2
4.55E-
6
0.00E+
0
 | C1
0.00E+
0
0.00E+
0
0.00E+
0
0.00E+
0 | C2
1.17E-
6
7.40E-
2
1.35E-
5
0.00E+
0 | C2/1
3.78E-
6
2.02E-
1
4.34E-
5
0.00E+
0 | C2/2
5.19E-
7
4.21E-
2
6.03E-
6
0.00E+
0 | C2/3
5.19E-
7
4.21E-
2
6.03E-
6
0.00E+
0
 | C3
1.21E-
6
8.84E-
3
5.11E-
6
0.00E+
0 | C3/1
6.07E-
6
4.42E-
2
2.55E-
5
0.00E+
0 | C4
3.02E-
6
5.07E+
0
8.79E-
6
0.00E+
0 | C4/2
1.64E-
5
4.12E-
1
4.12E-
6
0.00E+
0 | C4/3
1.98E-
6
7.19E+
0
1.20E-
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0.00E+
0 | D
-2.74E-
5
-1.61E-
1
-6.44E-
5
0.00E+
0 | D/1
-1.95E-
5
-2.84E-
1
-6.00E-
5
0.00E+
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D/2
-1.88E-
4
-6.89E-
1
-4.27E-
4
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-5.03E
2
-1.39E
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0.00E
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| m2 An
Indicator
HWD
NHWD
RWD | Norim V
Unit
[kg]
[kg]
[kg] | Nise
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8.76E-
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2.01E-
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8.90E-
2
4.75E-
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 | A5
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6
6.83E-
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9.20E-
6
0.00E+
0
3.25E-
1
 | B2
2.09E-
6
2.67E-
2
4.55E-
6
0.00E+
0
0.00E+
0
 | C1
0.00E+
0
0.00E+
0
0.00E+
0
0.00E+
0 | C2
1.17E-
6
7.40E-
2
1.35E-
5
0.00E+
0
0.00E+
0 | C2/1
3.78E-
6
2.02E-
1
4.34E-
5
0.00E+
0
0.00E+
0 | C2/2
5.19E-
7
4.21E-
2
6.03E-
6
0.00E+
0
0.00E+
0 | C2/3
5.19E-
7
4.21E-
2
6.03E-
6
0.00E+
0
0.00E+
0
 | C3
1.21E-
6
8.84E-
3
5.11E-
6
0.00E+
0
0.00E+
0 | C3/1
6.07E-
6
4.42E-
2
2.55E-
5
0.00E+
0
0.00E+
0 | C4
3.02E-
6
5.07E+
0
8.79E-
6
0.00E+
0
0.00E+
0 | C4/2
1.64E-
5
4.12E-
1
4.12E-
6
0.00E+
0
0.00E+
0 | C4/3
1.98E-
6
7.19E+
0
1.20E-
5
0.00E+
0
0.00E+
0 | D
-2.74E-
5
-1.61E-
1
-6.44E-
5
0.00E+
0
1.73E+
0 | D/1
-1.95E-
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-2.84E-
1
-6.00E-
5
0.00E+
0
7.37E+
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D/2
-1.88E-
4
-6.89E-
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-4.27E-
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1 |
| m2 An
Indicator
HWD
NHWD
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Unit
[kg]
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[kg] | Vise
A1-A3
1.48E-
4
8.76E-
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2.01E-
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8.90E-
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4.75E-
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2.47E-
3 | 700 \$ A4 4.11E- 6 2.15E- 1 4.65E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0
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6.42E-
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6.83E-
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3.25E-
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0.00E+
0
 | B2
2.09E-
6
2.67E-
2
4.55E-
6
0.00E+
0
0.00E+
0
0.00E+
0
 | C1
0.00E+
0
0.00E+
0
0.00E+
0
0.00E+
0
0.00E+
0 | C2
1.17E-
6
7.40E-
2
1.35E-
5
0.00E+
0
0.00E+
0
0.00E+
0 | C2/1
3.78E-
6
2.02E-
1
4.34E-
5
0.00E+
0
0.00E+
0
0.00E+
0 | C2/2
5.19E-
7
4.21E-
2
6.03E-
6
0.00E+
0
0.00E+
0
0.00E+
0 | C2/3
5.19E-
7
4.21E-
2
6.03E-
6
0.00E+
0
0.00E+
0
0.00E+
0
 | C3
1.21E-
6
8.84E-
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5.11E-
6
0.00E+
0
0.00E+
0
0.00E+
0 | C3/1
6.07E-
6
4.42E-
2
2.55E-
5
0.00E+
0
0.00E+
0
0.00E+
0 | C4
3.02E-
6
5.07E+
0
8.79E-
6
0.00E+
0
0.00E+
0
0.00E+
0 | C4/2
1.64E-
5
4.12E-
1
4.12E-
6
0.00E+
0
0.00E+
0
0.00E+
0 | C4/3
1.98E-
6
7.19E+
0
1.20E-
5
0.00E+
0
0.00E+
0
0.00E+
0 | D
-2.74E-
5
-1.61E-
1
-6.44E-
5
0.00E+
0
1.73E+
0
7.05E-
1 | D/1
-1.95E-
5
-2.84E-
1
-6.00E-
5
0.00E+
0
7.37E+
0
0.00E+
0 |
D/2
-1.88E-
4
-6.89E-
1
-4.27E-
4
0.00E+
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7.05E+
0 | -6.79E
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2
-1.39E
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| m2 An
Indicator
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Unit
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A1-A3
1.48E-
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0.00E+
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 | RT
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 | B2
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2.67E-
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 | C1
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1.17E-
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7.40E-
2
1.35E-
5
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0
0.00E+
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0.00E+
0 | C2/1
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2.02E-
1
4.34E-
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0
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0
0.00E+
0
0.00E+
0 | C2/2
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4.21E-2
6.03E-6
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0
0.00E+
0
0.00E+
0
0.00E+
0 | C2/3
5.19E-7
4.21E-2
6.03E-6
0.00E+
0
0.00E+
0
0.00E+
0
0.00E+
0
 | C3
1.21E-
6
8.84E-
3
5.11E-
6
0.00E+
0
0.00E+
0
0.00E+
0
0.00E+
0 | C3/1
6.07E-
6
4.42E-
2.55E-
5
0.00E+
0
0.00E+
0
0
0.00E+
0 | C4
3.02E-
6
5.07E+
0
8.79E-
6
0.00E+
0
0.00E+
0
0.00E+
0
2.89E+
0 | C4/2
1.64E-
5
4.12E-
1
4.12E-
6
0.00E+
0
0.00E+
0
0.00E+
1
2.89E+
1 | C4/3
1.98E-
6
7.19E+
0
1.20E-
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0.00E+
0
0.00E+
0
0.00E+
0
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0 | D
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-1.61E-
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-6.44E-
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1.73E+
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7.05E-
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-
4.64E+
0 | D/1
-1.95E-
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-2.84E-
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0.00E+
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D/2
-1.88E-
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-6.89E-
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-4.27E-
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0.00E+
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3.25E-
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7.05E+
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-
4.64E+
1 | -6.79E
6
-5.03E
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| m2 An
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[kg]
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[kg]
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A1-A3
1.48E-
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8.76E-
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8.90E-
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2.475E-
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2.47E-
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0.00E+
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 | A5 6.42E- 6 0.20E- 0 3.25E- 1 0.00E+ 0 0.00E+ 0 0.00E+ 0
 | B2
2.09E-
6
2.67E-
2
4.55E-
6
0.00E+
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 | C1
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1.17E-
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7.40E-
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1.35E-
5
0.00E+
0
0.00E+
0
0.00E+
0
0.00E+
0
0.00E+
0 | C2/1
3.78E-
6
2.02E-
1
4.34E-
5
0.00E+
0
0.00E+
0
0.00E+
0
0.00E+
0
0.00E+
0 | C2/2
5.19E-7
4.21E-2
6.03E-6
0.00E+
0
0.00E+
0
0.00E+
0
0.00E+
0
0.00E+
0 | C2/3
5.19E-
7
4.21E-
2
6.03E-
6
0.00E+
0
0.00E+
0
0.00E+
0
0.00E+
0
 | C3
1.21E-
6
8.84E-
3
5.11E-
6
0.00E+
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0.00E+
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0.00E+
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0.00E+
0
0.00E+
0 | C3/1
6.07E-
6
4.42E-
2
2.55E-
5
0.00E+
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0.00E+
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0
0.00E+
0 | C4
3.02E-
6
5.07E+
0
8.79E-
6
0.00E+
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0.00E+
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2.89E+
0
5.61E+
0 | C4/2
1.64E-
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4.12E-
1
4.12E-
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0.00E+
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0.00E+
0
2.89E+
1
5.61E+
1 | C4/3
1.98E-
6
7.19E+
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1.20E-
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0.00E+
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0.00E+
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0.00E+
0 | D
-2.74E-
5
-1.61E-
1
-6.44E-
5
0.00E+
0
1.73E+
0
7.05E-
1
-
4.64E+
0
0.00E+
0 | D/1
-1.95E-
5
-2.84E-
1
-6.00E-
5
0.00E+
0
0.00E+
0
0.00E+
0
0.00E+
0 | D/2
-1.88E-
4
-6.89E-
1
-4.27E-
4
0.00E+
0
-
-
-
4.64E+
1
0.00E+
0
 | -6.79E
6
-5.03E
2
-1.39E
5
0.00E
0
3.25E
1
0.00E
0
0
0.00E
0
0 |
m2 An Indicator HWD NHWD RWD CRU MFR MER EEE	Norim \ Unit [kg] [kg] [kg] [kg] [kg] [kg] [kg]	Vise A1-A3 1.48E- 4 8.76E- 1 2.01E- 4 8.90E- 2 2.47E- 3 0.00E+ 0 0.00E+ 0 zardou	700 \$ A4 4.11E- 6 2.15E- 1 4.65E- 5 0.00E+ 0 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A5 6.42E- 6 0.20E- 0 3.25E- 1 0.00E+ 0 0.00E+ 0 0.00E+ 0	B2 2.09E- 6 2.67E- 2 4.55E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+	C1 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 1WD =	C2 1.17E- 6 7.40E- 2 1.35E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 Non-ha	C2/1 3.78E- 6 2.02E- 1 4.34E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0	C2/2 5.19E- 7 4.21E- 2 6.03E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0	C2/3 5.19E- 7 4.21E- 2 6.03E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0	C3 1.21E- 6 8.84E- 3 5.11E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0	C3/1 6.07E- 6 4.42E- 2 2.55E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+	C4 3.02E- 6 5.07E+ 0 8.79E- 6 0.00E+ 0 0.00E+ 0 2.89E+ 0 5.61E+ 0 Radioad	C4/2 1.64E- 5 4.12E- 1 4.12E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 1 5.61E+ 1 5.61E+ 1	C4/3 1.98E- 6 7.19E+ 0 1.20E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0	D -2.74E- 5 -1.61E- 1 -6.44E- 5 0.00E+ 0 7.05E- 1 - 4.64E+ 0 0.00E+ 0 0.00E+ 0	D/1 -1.95E- 5 -2.84E- 1 -6.00E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0	D/2 -1.88E- 4 -6.89E- 1 -4.27E- 4 0.00E+ 0 - 4.64E+ 1 0.00E+ 0 - Comp	-6.79E 6 -5.03E 2 -1.39E 5 0.00E 0 3.25E 1 0.00E 0 0.00E 0 0.00E 0
m2 An Indicator HWD NHWD RWD CRU MFR MER EEE EET Caption H	Norim \ Unit [kg] [kg] [kg] [kg] [kg] [kg] [MJ] WD = Ha for re-us	Vise A1-A3 1.48E- 4 8.76E- 1 2.01E- 4 8.90E- 2 4.75E- 2 2.4.75E- 2 2.4.7E- 3 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 2ardou se; MFF	700 \$ A4 4.11E- 6 2.15E- 1 4.65E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 CA -	A5 6.42E- 6 6.83E- 9.20E- 6 0.00E+ 0	B2 2.09E- 6 2.67E- 2 4.55E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0	C1 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 1WD = cling; N	C2 1.17E- 6 7.40E- 2 1.35E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 Non-ha 1/2 = 1	C2/1 3.78E- 6 2.02E- 1 4.34E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0	C2/2 5.19E- 7 4.21E- 2 6.03E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0	C2/3 5.19E- 7 4.21E- 2 6.03E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0	C3 1.21E- 6 8.84E- 3 5.11E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 3 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	C3/1 6.07E- 6 4.42E- 2.55E- 5 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- 0.00	C4 3.02E- 6 5.07E+ 0 8.79E- 6 0.00E+ 0 0.00E+ 0 2.89E+ 0 5.61E+ 0 Radioace = Expo	C4/2 1.64E- 5 4.12E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 1 5.61E+ 1 5.61E+ 1 ctive was pred ele	C4/3 1.98E- 6 7.19E+ 0 1.20E- 5 0.00E+ 0.00E+ 0 0.00E+ 0.0	D -2.74E- 5 -1.61E- 1 -6.44E- 5 0.00E+ 0 7.05E- 1 - 4.64E+ 0 0.00E+ 0 posed; energy	D/1 -1.95E- 5 -2.84E- 1 -6.00E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0	D/2 -1.88E- 4 -6.89E- 1 -4.27E- 4 0.00E+ 0 - 4.64E+ 1 0.00E+ 0 - Comp	-6.79E 6 -5.03E 2 -1.39E 5 0.00E 0 3.25E 1 0.00E 0 0.00E 0 0.00E 0
m2 An Indicator HWD RWD CRU MFR EEE EET Caption KESULT m2 An	Norim Unit [kg] [kg] [MJ] [MJ] [MJ] [MJ] SOFT SOFT	Vise A1-A3 1.48E- 4 8.76E- 1 2.01E- 4 2 4.75E- 2 2 2.4.7E- 3 0.00E+ 0 0.00E+ 0 xardou xe; MFF 'HE L	700 \$ A4 4.11E- 6 2.15E- 1 4.65E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 CA − 700 \$	A5 6.42E- 6 0.325E- 0.000E+ 0.000E+ 0.000E+ 0.000E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 </td <td>B2 2.09E- 6 2.67E- 2 4.55E- 6 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 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>C1 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 1WD = cling; N</td> <td>C2 1.17E- 6 7.40E- 2 1.35E- 5 0.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>C2/1 3.78E- 6 2.02E- 1 4.34E- 5 0.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>C2/2 5.19E- 7 4.21E- 2 6.03E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 1 s wast Is for e thermatic ries a</td> <td>C2/3 5.19E- 7 4.21E- 2 6.03E- 6 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 0.00E+ 0 0 0.00E+ 0</td> <td>C3 1.21E- 6 8.84E- 3 5.11E- 6 0.00E+ 0.00E+ 0.00</td> <td>C3/1 6.07E- 6 4.42E- 2.55E- 5 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- 0.00</td> <td>C4 3.02E- 6 5.07E+ 0 8.79E- 6 0.00E+ 0 0.00E+ 0 2.89E+ 0 5.61E+ 0 Radioace = Expo</td> <td>C4/2 1.64E- 5 4.12E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 1 5.61E+ 1 5.61E+ 1 ctive was pred ele</td> <td>C4/3 1.98E- 6 7.19E+ 0 1.20E- 5 0.00E+ 0.00E+ 0 0.00E+ 0.0</td> <td>D -2.74E- 5 -1.61E- 1 -6.44E- 5 0.00E+ 0 7.05E- 1 - 4.64E+ 0 0.00E+ 0 posed; energy</td> <td>D/1 -1.95E- 5 -2.84E- 1 -6.00E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0</td> <td>D/2 -1.88E- 4 -6.89E- 1 -4.27E- 4 0.00E+ 0 - 4.64E+ 1 0.00E+ 0 - Comp</td> <td>-6.79E 6 -5.03E 2 -1.39E 5 0.00E 0 3.25E 1 0.00E 0 0.00E 0 0.00E 0</td>	B2 2.09E- 6 2.67E- 2 4.55E- 6 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 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C1 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 1WD = cling; N	C2 1.17E- 6 7.40E- 2 1.35E- 5 0.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0	C2/1 3.78E- 6 2.02E- 1 4.34E- 5 0.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0	C2/2 5.19E- 7 4.21E- 2 6.03E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 1 s wast Is for e thermatic ries a	C2/3 5.19E- 7 4.21E- 2 6.03E- 6 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 0.00E+ 0 0 0.00E+ 0	C3 1.21E- 6 8.84E- 3 5.11E- 6 0.00E+ 0.00E+ 0.00	C3/1 6.07E- 6 4.42E- 2.55E- 5 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- 0.00	C4 3.02E- 6 5.07E+ 0 8.79E- 6 0.00E+ 0 0.00E+ 0 2.89E+ 0 5.61E+ 0 Radioace = Expo	C4/2 1.64E- 5 4.12E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 1 5.61E+ 1 5.61E+ 1 ctive was pred ele	C4/3 1.98E- 6 7.19E+ 0 1.20E- 5 0.00E+ 0.00E+ 0 0.00E+ 0.0	D -2.74E- 5 -1.61E- 1 -6.44E- 5 0.00E+ 0 7.05E- 1 - 4.64E+ 0 0.00E+ 0 posed; energy	D/1 -1.95E- 5 -2.84E- 1 -6.00E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0	D/2 -1.88E- 4 -6.89E- 1 -4.27E- 4 0.00E+ 0 - 4.64E+ 1 0.00E+ 0 - Comp	-6.79E 6 -5.03E 2 -1.39E 5 0.00E 0 3.25E 1 0.00E 0 0.00E 0 0.00E 0
m2 Ar Indicator HWD RWD CRU MFR EEE EET Caption H	Norim \ Unit [kg] [kg] [kg] [kg] [kg] [kg] [kg] [MJ] WD = Ha for re-us S OF T norim \ Unit [Disease	Vise A1-A3 1.48E- 8.76E- 1 2.01E- 4 8.76E- 2 4.75E- 2 2.47E- 3 0.00E+ 0 0.00E+ 0 0.00E+ 0 Vise HELL Vise A1-4	700 \$ A4 4.11E- 6 2.15E- 1 4.65E- 5 0.00E+ 0 0.00E+ 0.00E+ 0.00E+ 0.00E+ 0.00E+ 0.00E+ <t< td=""><td>A5 6.42E- 6 6.83E- 9.20E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 0 e dispos terials f Addit A5</td><td>B2 2.09E- 6 2.67E- 2 4.55E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 tional</td><td>C1 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 1WD = cling; N impa</td><td>C2 1.17E- 6 7.40E- 2 1.35E- 5 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 0.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>C2/1 3.78E- 6 2.02E- 1 4.34E- 5 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>C2/2 5.19E- 7 4.21E- 2 6.03E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 1 s wast Is for e thermatic ries a</td><td>C2/3 5.19E- 7 4.21E- 2 6.03E- 6 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 0.00E+ 0 0 0.00E+ 0</td><td>C3 1.21E- 6 8.84E- 3 5.11E- 6 0.00E+ 0.00E+ 0.00</td><td>C3/1 6.07E- 6 4.42E- 2.55E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>C4 3.02E- 6 5.07E+ 0 0.00E+ 0 0.00E+ 0 2.89E+ 0 5.61E+ 0 3.79E- 1.580</td><td>C4/2 1.64E- 5 4.12E- 1 4.12E- 6 0.00E+ 0 0.00E+ 0 2.89E+ 1 5.61E+ 1 2.89E+ 1 5.61E+ 1 2.89E+ 1 5.61E+ 1 2.89E+ 1 1 5.61E- 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5</td><td>C4/3 1.98E- 6 7.19E+ 0 1.20E- 5 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 - 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>D -2.74E- 5 -1.61E- 1 -6.44E- 5 0.00E+ 0 7.05E- 1 - 4.64E+ 0 0.00E+ 0 0.00E+ 0 posed; energy</td><td>D/1 -1.95E- 5 -2.84E- 1 -6.00E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 CRU = 7; EEE</td><td>D/2 -1.88E- 4 -6.89E- 1 -4.27E- 4 0 3.25E- 1 7.05E+ 0 - - 4.64E+ 1 0.00E+ 0 = Expo</td><td>-6.79E 6 -5.03E 2 -1.39E 5 0.00E 0 0 0.00E 0 0 0.00E 0 0 0.00E</td></t<>	A5 6.42E- 6 6.83E- 9.20E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 0 e dispos terials f Addit A5	B2 2.09E- 6 2.67E- 2 4.55E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 tional	C1 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 1WD = cling; N impa	C2 1.17E- 6 7.40E- 2 1.35E- 5 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 0.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0	C2/1 3.78E- 6 2.02E- 1 4.34E- 5 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C2/2 5.19E- 7 4.21E- 2 6.03E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 1 s wast Is for e thermatic ries a	C2/3 5.19E- 7 4.21E- 2 6.03E- 6 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 0.00E+ 0 0 0.00E+ 0	C3 1.21E- 6 8.84E- 3 5.11E- 6 0.00E+ 0.00E+ 0.00	C3/1 6.07E- 6 4.42E- 2.55E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C4 3.02E- 6 5.07E+ 0 0.00E+ 0 0.00E+ 0 2.89E+ 0 5.61E+ 0 3.79E- 1.580	C4/2 1.64E- 5 4.12E- 1 4.12E- 6 0.00E+ 0 0.00E+ 0 2.89E+ 1 5.61E+ 1 2.89E+ 1 5.61E+ 1 2.89E+ 1 5.61E+ 1 2.89E+ 1 1 5.61E- 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5	C4/3 1.98E- 6 7.19E+ 0 1.20E- 5 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 - 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	D -2.74E- 5 -1.61E- 1 -6.44E- 5 0.00E+ 0 7.05E- 1 - 4.64E+ 0 0.00E+ 0 0.00E+ 0 posed; energy	D/1 -1.95E- 5 -2.84E- 1 -6.00E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 CRU = 7; EEE	D/2 -1.88E- 4 -6.89E- 1 -4.27E- 4 0 3.25E- 1 7.05E+ 0 - - 4.64E+ 1 0.00E+ 0 = Expo	-6.79E 6 -5.03E 2 -1.39E 5 0.00E 0 0 0.00E 0 0 0.00E 0 0 0.00E
m2 An Indicator HWD RWD CRU MFR EEE EET Caption RESULT m2 An Indicator	Norim \ Unit [kg] [kg] [kg] [kg] [kg] [kg] [kg] [kg]	Nise A1-A3 1.48E- 4 2.01E- 4 2.01E- 4 2.01E- 4 2 2.01E- 4 2 2.01E- 4 2 2.01E- 4 2 2.01E- 2 2 2.01E- 2 3 0.00E+ 0 0	700 € A4 4.11E- 6 2.15E- 1 4.65E- 5 0.00E+ 0 0.	A5 6.42E- 6 6.83E- 1 9.20E- 6 0 3.25E- 1 0 0.00E+ 0	B2 2.09E- 6 2.67E- 2 4.55E- 6 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C1 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 1WD = cling; N impa C1	C2 1.17E- 6 7.40E- 2 1.35E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0	C2/1 3.78E- 6 2.02E- 1 4.34E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 1.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C2/2 5.19E- 7 4.21E- 2 6.03E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 1s wast Is for e therm ries a	C2/3 5.19E- 7 4.21E- 2 6.03E- 6 0.00E+ 0.00E+ 0.00E+	C3 1.21E- 6 8.84E- 3 5.11E- 6 0.00E+ 0.00E+ 0.00E+	C3/1 6.07E- 6 4.42E- 2.55E- 5 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 0.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0	C4 3.02E- 6 5.07E+ 0 8.79E- 6 0.00E+ 0 0.00E+ 0 2.89E+ 0 5.61E+ 0 3.61E+ 0 1.580 C4	C4/2 1.64E- 5 4.12E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 0 2.89E+ 1 5.61E+ 1 2.89E+ 1 4.12E- C4/2 C4/2	C4/3 1.98E- 6 7.19E+ 0 1.20E- 5 0.00E+ 0.00E+ 0 0.00E+ 0.00E+	D -2.74E- 5 -1.61E- 1 -6.44E- 5 0.00E+ 0 7.05E- 1 - 4.64E+ 0 0.00E+ 0 posed; energy onal: D	D/1 -1.95E- 5 -2.84E- 1 -6.00E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 CRU = r; EEE	D/2 -1.88E- 4 -6.89E- 1 -4.27E- 4 0 3.25E- 1 7.05E+ 0 - 4.64E+ 1 0.00E+ 0 - Expo	-6.79E 6 -5.03E 2 -1.39E 0.00E 0 3.25E 1 0.00E 0 0 0.00E 0 0 0.00E 0 0 0.00E 0 0 0.00E 0 0 0.00E 0 0 0.00E 0 0 0 0
m2 An Indicator HWD RWD CRU MFR MER EEE EET Caption Caption Caption R ESULT m2 An Indicator PM IR ETP-fw	Norim \ Unit [kg] [kg] [kg] [kg] [kg] [kg] [MJ] [MJ] WD = Ha for re-us S OF T norim \ Unit [Disease Incidence [kBq U23 Eq.] [CTUe]	Nise A1-A3 1.48E- 4 8.76E- 1 2.01E- 4 8.90E- 2 4.75E- 2 2.47E- 3 0.00E+ 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <t< td=""><td>700 € A4 4.11E- 6 2.15E- 1 4.65E- 5 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>A5 6.42E- 6 6.83E- 1 9.20E- 6 0 3.25E- 1 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0</td><td>B2 2.09E- 6 2.67E- 2 4.55E- 6 0.00E+ 0 <t< td=""><td>C1 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 0.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>C2 1.17E- 6 7.40E- 2 1.35E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>C2/1 3.78E- 6 2.02E- 1 4.34E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 1.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>ID OI C2/2 5.19E-7 7 4.21E-2 6.03E-6 0 0.00E+ 0 0 0.00E+ 0 0 1s store therma ries a C2/2 ND ND ND</td><td>C2/3 5.19E-7 7 4.21E-2 6.03E-6 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>C3 1.21E- 6 8.84E- 3 5.11E- 6 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 0 0.00E+ 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>C3/1 6.07E- 6 4.42E- 2.55E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>C4 3.02E- 5.07E+ 0 8.79E- 6 0.00E+ 0 0.00E+ 0 2.89E+ 0 5.61E+ 0 5.61E+ 0 5.61E+ 0 C4 ND ND</td><td>C4/2 1.64E- 5 4.12E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 1 5.61E+ 1 5.61E+ 1 4+A2 C4/2 ND ND ND</td><td>C4/3 1.98E- 6 7.19E+ 0 1.20E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>D -2.74E- 5 -1.61E- 1 -6.44E- 5 0.00E+ 0 7.05E- 1 - 4.64E+ 0 0.00E+ 0 posed; energy D ND ND</td><td>D/1 -1.95E- 5 -2.84E- 1 -6.00E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 CRU = 7 ; EEE D/1 ND ND</td><td>D/2 -1.88E- 4 -6.89E- 1 -4.27E- 4 0 3.25E- 1 7.05E+ 0 - 4.64E+ 1 0.00E+ 0 - Comp = Expo D/2 ND ND</td><td>-6.79E 6 -5.03E 2 -1.39E 5 0.00E 0 3.25E 1 0.00E 0 0 0.00E 0 0 0.00E 0 0 0.00E 0 0 0.00E 0 0 0.00E 0 0 0 0</td></t<></td></t<>	700 € A4 4.11E- 6 2.15E- 1 4.65E- 5 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A5 6.42E- 6 6.83E- 1 9.20E- 6 0 3.25E- 1 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0	B2 2.09E- 6 2.67E- 2 4.55E- 6 0.00E+ 0 <t< td=""><td>C1 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 0.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>C2 1.17E- 6 7.40E- 2 1.35E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>C2/1 3.78E- 6 2.02E- 1 4.34E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 1.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>ID OI C2/2 5.19E-7 7 4.21E-2 6.03E-6 0 0.00E+ 0 0 0.00E+ 0 0 1s store therma ries a C2/2 ND ND ND</td><td>C2/3 5.19E-7 7 4.21E-2 6.03E-6 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>C3 1.21E- 6 8.84E- 3 5.11E- 6 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 0 0.00E+ 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>C3/1 6.07E- 6 4.42E- 2.55E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>C4 3.02E- 5.07E+ 0 8.79E- 6 0.00E+ 0 0.00E+ 0 2.89E+ 0 5.61E+ 0 5.61E+ 0 5.61E+ 0 C4 ND ND</td><td>C4/2 1.64E- 5 4.12E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 1 5.61E+ 1 5.61E+ 1 4+A2 C4/2 ND ND ND</td><td>C4/3 1.98E- 6 7.19E+ 0 1.20E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>D -2.74E- 5 -1.61E- 1 -6.44E- 5 0.00E+ 0 7.05E- 1 - 4.64E+ 0 0.00E+ 0 posed; energy D ND ND</td><td>D/1 -1.95E- 5 -2.84E- 1 -6.00E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 CRU = 7 ; EEE D/1 ND ND</td><td>D/2 -1.88E- 4 -6.89E- 1 -4.27E- 4 0 3.25E- 1 7.05E+ 0 - 4.64E+ 1 0.00E+ 0 - Comp = Expo D/2 ND ND</td><td>-6.79E 6 -5.03E 2 -1.39E 5 0.00E 0 3.25E 1 0.00E 0 0 0.00E 0 0 0.00E 0 0 0.00E 0 0 0.00E 0 0 0.00E 0 0 0 0</td></t<>	C1 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 0.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0	C2 1.17E- 6 7.40E- 2 1.35E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0	C2/1 3.78E- 6 2.02E- 1 4.34E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 1.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ID OI C2/2 5.19E-7 7 4.21E-2 6.03E-6 0 0.00E+ 0 0 0.00E+ 0 0 1s store therma ries a C2/2 ND ND ND	C2/3 5.19E-7 7 4.21E-2 6.03E-6 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C3 1.21E- 6 8.84E- 3 5.11E- 6 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 0 0.00E+ 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0	C3/1 6.07E- 6 4.42E- 2.55E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0	C4 3.02E- 5.07E+ 0 8.79E- 6 0.00E+ 0 0.00E+ 0 2.89E+ 0 5.61E+ 0 5.61E+ 0 5.61E+ 0 C4 ND ND	C4/2 1.64E- 5 4.12E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 1 5.61E+ 1 5.61E+ 1 4+A2 C4/2 ND ND ND	C4/3 1.98E- 6 7.19E+ 0 1.20E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	D -2.74E- 5 -1.61E- 1 -6.44E- 5 0.00E+ 0 7.05E- 1 - 4.64E+ 0 0.00E+ 0 posed; energy D ND ND	D/1 -1.95E- 5 -2.84E- 1 -6.00E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 CRU = 7 ; EEE D/1 ND ND	D/2 -1.88E- 4 -6.89E- 1 -4.27E- 4 0 3.25E- 1 7.05E+ 0 - 4.64E+ 1 0.00E+ 0 - Comp = Expo D/2 ND ND	-6.79E 6 -5.03E 2 -1.39E 5 0.00E 0 3.25E 1 0.00E 0 0 0.00E 0 0 0.00E 0 0 0.00E 0 0 0.00E 0 0 0.00E 0 0 0 0
m2 An Indicator HWD RWD CRU GRU MFR EEE EET Caption Caption Indicator PM IR	Norim \ Unit [kg] [kg] [kg] [kg] [kg] [kg] [kg] [kg]	Nise A1-A3 1.48E- 4 8.76E- 1 1 2.01E- 4 4 8.90E- 2 2 4.75E- 2 2 4.75E- 2 2 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0	700 S A4 4.11E- 6 2.15E- 1 4.65E- 5 0.00E+ 0 0 0.00E+ 0 0	A5 6.42E- 6 0.325E- 1 0.00E+ 0	B2 2.09E- 2.67E- 2.67E- 4.55E- 6 0.00E+ 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td>C1 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 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>C2 1.17E- 6 7.40E- 2 1.35E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>C2/1 3.78E- 6 2.02E- 1 4.34E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>C2/2 5.19E-7 7 4.21E-2 6.03E-6 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>C2/3 5.19E-7 7 4.21E-2 6.03E-6 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>C3 1.21E- 6 8.84E- 3 5.11E- 6 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>C3/1 6.07E- 6 4.42E- 2.55E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>C4 3.02E- 6 5.07E+ 0 8.79E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 5.61E+ 0 Sc61E+ 0 1580 C4 ND ND</td> <td>C4/2 1.64E- 5 4.12E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 1 5.61E+ 1 5.61E+ 1 5.61E+ 1 C4/2 ND ND</td> <td>C4/3 1.98E- 6 7.19E+ 0 1.20E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 C4/3 ND ND</td> <td>D -2.74E- 5 -1.61E- 1 -6.44E- 5 0.00E+ 0 7.05E- 1 - 4.64E+ 0 0.00E+ 0 posed; energy posed; energy D ND ND</td> <td>D/1 -1.95E- 5 -2.84E- 1 -6.00E- 5 0.00E+ 0 7.37E+ 0 0.00E+ 0 0.00E+ 0 CRU = 7 ; EEE D/1 ND ND</td> <td>D/2 -1.88E- 4 -6.89E- 1 -4.27E- 4 0 3.25E- 1 7.05E+ 0 -4.64E+ 1 0.00E+ 0 - Expo D/2 ND ND</td> <td>-6.79E 6 -5.03E 2 -1.39E 5 0.00E 0 0.00E 0 0.00E 0 0.00E 0 0.00E 0 0.00E 0 0.00E 0 0 0.00E 0 0 0.00E 0 0 0.00E 0 0 0 0</td>	C1 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 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0	C2 1.17E- 6 7.40E- 2 1.35E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0	C2/1 3.78E- 6 2.02E- 1 4.34E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C2/2 5.19E-7 7 4.21E-2 6.03E-6 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C2/3 5.19E-7 7 4.21E-2 6.03E-6 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C3 1.21E- 6 8.84E- 3 5.11E- 6 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0	C3/1 6.07E- 6 4.42E- 2.55E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 0 0.00E+ 0 0 0 0 0 0 0 0 0 0 0 0 0	C4 3.02E- 6 5.07E+ 0 8.79E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 5.61E+ 0 Sc61E+ 0 1580 C4 ND ND	C4/2 1.64E- 5 4.12E- 6 0.00E+ 0 0.00E+ 0 0.00E+ 1 5.61E+ 1 5.61E+ 1 5.61E+ 1 C4/2 ND ND	C4/3 1.98E- 6 7.19E+ 0 1.20E- 5 0.00E+ 0 0.00E+ 0 0.00E+ 0 0.00E+ 0 0 0.00E+ 0 C4/3 ND ND	D -2.74E- 5 -1.61E- 1 -6.44E- 5 0.00E+ 0 7.05E- 1 - 4.64E+ 0 0.00E+ 0 posed; energy posed; energy D ND ND	D/1 -1.95E- 5 -2.84E- 1 -6.00E- 5 0.00E+ 0 7.37E+ 0 0.00E+ 0 0.00E+ 0 CRU = 7 ; EEE D/1 ND ND	D/2 -1.88E- 4 -6.89E- 1 -4.27E- 4 0 3.25E- 1 7.05E+ 0 -4.64E+ 1 0.00E+ 0 - Expo D/2 ND ND	-6.79E 6 -5.03E 2 -1.39E 5 0.00E 0 0.00E 0 0.00E 0 0.00E 0 0.00E 0 0.00E 0 0.00E 0 0 0.00E 0 0 0.00E 0 0 0.00E 0 0 0 0

6. LCA: Interpretation



This chapter contains an interpretation of the Life Cycle Impact Assessment categories. When expressed as a percentage, the impact refers to its magnitude expressed as a percentage of total product impact across all modules, with the exception of module D.



The product stage (A1-A3) of Amorim Wise Inspire 700 SRT has the highest impacts for all impact categories assessed, while the use stage (B2), considering

7. Requisite evidence

Blue Angel Ecolabel

The requirements for the award of the *Blue Angel* ecolabel refer to both the substances and materials used during the manufacturing process and the period of use and the disposal of used floor coverings as well as to the transportation packaging for new floor coverings.

The products must not contain as constituents any substances that are identified as particularly alarming according to the Chemicals Regulation *REACH* (EC/1907/2006) and which have been incorporated into the list drawn up in accordance with Article 59 (1) of the *REACH* Regulation (so-called "list of candidates"), as amended at the time of application. Emission requirements:

Compound or Substance	3 rd Day	Final Value (28 th Day)
Total organic compounds within the retention range $C_6-C_{16} \ (\text{TVOC})$	≤ 1000 µg/m³	≤ 300 μg/m³
Total organic compounds within the re- tention range $> C_{16} - C_{22}$ (TSVOC)	-	≤ 30 μg/m³
Carcinogenic substances ¹²	≤ 10 µg/m³ total	≤ 1 µg/m³ per single value_
Total VOC without LCI ¹³	-	≤ 100 μg/m³
R value ¹⁴	-	<u>≤</u> 1
Formaldehyde	-	≤ 60 µg/m³ (0.05 ppm)

GREENGUARD Certification

This product has been certified according to the GREENGUARD Gold Certification Criteria for Building Products and Interior Finishes.

The GREENGUARD Gold label certifies that products has been independently tested and verified to meet rigorous standards for chemical emissions and volatile organic compounds (VOCs), such as formaldehyde or phthalates.

TÜV certification

This product is $T\ddot{U}V$ certification premium product. Tüv-Proficert, that is a transnational certificate for vocemission and air quality, certifying that a product complies with different national regulations and emissions thresholds of the following regulations:

AgBB 2018 A+ for French Mark Belgian VOC regulation BREEM Exemplary Level a lifetime of 1 year, has low impacts for all the impact categories, when compared with other stages.

The high impacts of the product stage of Amorim Wise Inspire 700 SRT, show the relevance of the manufacturing processes, which are mostly related to the use of resources such as chemical products, raw materials such as polyethylene terephthalate (PET), high-density polyethylene (HDPE) and electricity consumption, whose production and use generate emissions of diverse pollutants to the atmosphere and discharges of sludge waste and wastewater.

Amorim Wise Inspire 700 SRT end-of-life (mix scenario) (C1-C4) and construction stage (A4-A5) also carry relevant potential impacts overall. The end-of -life stage's highest contribution is in the Global Warming Potential (GWP) – Total category, representing 58 % of the result, followed by 26 % of the result in the Eutrophication potential (EP) - marine impact category.

RAL-UZ 120

LEED V4 (outside North America Finish M1- Classification Austrian Eco Label, Guideline UZ 42

Amorim Wise Inspires 700 SRT was subjected to tests in order to determine the VOC and formaldehyde emission according to criteria for the allocation of the $T\ddot{U}V$ PROFICERT- product Interior brand Version 1.2 dated 2019-03-01 in the framework of a supervision test.

Name of the testing institute	Entwiclungs- und Pürflabor Holztechnologie GmbH
Number of test report	2117110/2019/6
Testing methods	The test piece was placed into a test chamber - lying on the bottom - under specifi conditions, according to ISO 16000-9. Amalysis of results according to ISO 16000-3 and ISO 16000-6.
Certification program	TÜV PROFICERT

Results

Concentration limits after 3, 7 and 28 days of exposure are presented in the following tables:

Quality standard

TÜV PROF	CERT-produ	ct Interior	Standard			Compliance
Parameter	Require		Re	of require- ments		
1	3 days	28 days	3 days	7 days	28 days	mente
Total volatile organic compounds TVOC (AgBB)	< 10,000	≤ 1,000	49	26	10	yes
Total of semi-volatile organic compounds TSVOC		≤ 100	<5	<5	< 5	yes
Total VOC without LCI (D)		≤ 100	< 5	< 5	< 5	yes
R-Value (LCI (D)) *		≤1	0.121	0.086	0.008	yes
Formaldehyde		< 60	8	6	< 6	yes
Acetaldehyde		≤ 200	4	4	3	yes
Toluene		≤ 300	n.d.	n.d.	n.d.	yes
Tetrachloroethylene		< 350	n.d.	n.d.	n.d.	yes
Xylene		< 300	n.d.	n.d.	n.d.	yes
1,4-Dichlorobenzene		< 90	n.d.	n.d.	n.d.	yes
Styrene		< 350	n.d.	n.d.	n.d.	yes
Trichloroethylene		≤1	n.d.	n.d.	n.d.	yes
DEHP		<u>≤</u> 1	n.d.	n.d.	n.d.	yes
DBP		≤1	n.d.	n.d.	n.d.	yes
Carcinogenic, mutagenic substances and substances toxic to reproduction ¹	∑≤10	≤ 1 each	n.d.	n.d.	n.d.	yes
Ammonia ²		≤ 149	-	-		*
Nitrosamines ²		≤ 0.2		-	-	~

Quality PREMIUM

TÜV PROFICERT-product Interior PREMIUM									
Parameter	Require [µg/		Re	Compliance of Require- ments					
	3 days	28 days	3 days	7 days	28 days	internet			
Total volatile organic compounds TVOC (AgBB)	< 1,000	≤ 160	49	26	10	yes			
Total of semi-volatile organic compounds TSVOC		≤ 100	< 5	< 5	< 5	yes			
Total VOC without LCI (D)		≤ 100	< 5	< 5	< 5	yes			
R-Value (LCI (D)) *		≤ 1.0	0 121	0.086	0.008	yes			
Formaldehyde		< 10	8	6	< 6	yes			
1,4-Dichlorobenzene		< 60	n.d.	n.d.	n.d.	yes			
Trichloroethylene		s 1	n.d.	n.d.	n.d.	yes			
DEHP		s 1	n.d.	n.d.	n.d.	yes			
DBP		≤1	n.d.	n.d.	n.d.	yes			
Carcinogenic, mutagenic substances and substances toxic to reproduction ¹	Σ ≤ 1 0	≤ 1 each	n.d.	n.d.	n.d.	yes			
Ammonia ²		≤ 24	-	-	-				
Nitrosamines ²		≤ 0.2		-	-	-			

The results have not exceeded the concentration limits corresponding to the certification requirements.

8. References

ISO 14025

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EN 15804

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ISO 10874

ISO 10874:2009 - Resilient, textile and laminate floor coverings -- Classification

ISO 16000-6

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ISO 16000-9

ISO 16000-9:2006 - Indoor air - Part 9: Determination of the emission of volatile organic compounds from building products and furnishing -- Emission test chamber method

ISO 23997

ISO 23997:2007- Resilient floor coverings --Determination of mass per unit area

ISO 24336

ISO 24336:2005 - Laminate floor coverings -Determination of thickness swelling after partial immersion in water

ISO 24342

ISO 24342:2007 - Resilient and textile floor-coverings -- Determination of side length, edge straightness and squareness of tiles

ISO 24343 – 1

ISO 24343-1:2007 - Resilient and laminate floor coverings -- Determination of indentation and residual indentation -- Part 1: Residual indentation

EN 13329

EN 13329:2000 - Laminate floor coverings. Specifications, requirements and test methods

EN 13501-1

EN13501-1:2007:Fire classification of construction products and building elements-Part1: Classification using data from reaction to fire tests

EN 13893

EN 13893:2002 - Resilient, laminate and textile floor coverings. Measurement of dynamic coefficient of friction on dry floor surfaces

EN 14041

EN 14041:2004 - Resilient, textile and laminate floor coverings – Essential characteristics

EN 14085

EN 14085:2010 - Resilient floor coverings -Specification for floor panels for loose laying

DIN EN 717-1

DIN EN 717-1:2005 - Wood-based panels -Determination of formaldehyde release - Part 1: Formaldehyde emission by the chamber method

ISO 105-B02

ISO 105-B02:2013 - Textiles -- Tests for colour fastness -- Part B02: Colour fastness to artificial light: Xenon arc fading lamp test

ISO 4918

ISO 4918:2009 - Resilient, textile and laminate floor coverings -- Castor chair test

ISO 16581

ISO 16581:2014 - Resilient and laminate floor coverings -- Determination of the effect of simulated movement of a furniture leg

BS EN 12667

BS EN 12667:2001 - Thermal performance of building materials and products. Determination of thermal resistance by means of guarded hot plate and heat flow meter methods. Products of high and medium thermal resistance

European Waste Catalogue

European Waste Catalogue (EWC) (Commission Decision 94/3/EC)

European List of Waste

European List of Waste (ELW) (Commission Decision 2000/532/EC)

European Waste Framework Directive

Waste Framework Directive (WFD) (2008/98/EC)

UL 2818 - 2013

UL 2818 - 2013 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings

Institut Bauen und Umwelt

General Instructions for the EPD programme of Institut Bauen und Umwelt e.V. Version 2.0, Berlin: Institut Bauen und Umwelt e.V., 2021. www.ibu-epd.com

PCR Part A+A2, version 1.0

Institut Bauen und Umwelt e.V., Berlin (pub.): Product Category Rules for Construction Products from the range of Environmental Product Declarations of Institut Bauen und Umwelt (IBU), Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Project Report according to EN 15804+A2:2019. August 2020 (www.bau-umwelt.de)

PCR Part B

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