Product Environmental Profile

Skirting trunking SL
(containing 30% recycled PVC in trunking base only)

Company information

Hager

132 Boulevard d'Europe
F 67215 Obernai Cedex
www.hagergroup.com

A question concerning the Product Environmental Profile: infopep@hager.com

References covered

Systems : SL 20x55 (in colors RAL 9016 & RAL 9011), SL 20x80 (in colors RAL 9016 & RAL 9011), SL 20x115 (in colors RAL 9016 & RAL 9011 & RAL 9010), SL 20x80 for LED (in colors RAL 9011 & D1*), SL 15x100 (in colors RAL 9016 and RAL 9011). The systems are especially composed of a trunking base containing 30% of recycled PVC** (completed by 70% of virgin PVC) and a trunking cover containing 100% of virgin PVC, in addition to other parts as decribed in the PSR for the relevant Functional Unit.

*colors: D1 = alu
** recycled PVC mentioned is PIR (Post-Industrial Recycled) material

Methodology

PEP has been performed according to the PCR version PEP-PCR-ed4-2021 09 06 and PSR version PSR-0003-ed2.1-2023 12 08 issued by the PEP ecopassport program.
For further information, please see the website of the program www.pep-ecopassport.org

Reference product

Reference product identification

Skirting trunking system SL 20x80 (Trunking lenth SL200801 containing 30% of recycled PVC completed by 70% of virgin PVC + cover SL200802D1 containing 100% of virgin PVC + all accessories according to PSR)

Use scenario based on :
PSR product Category : PSR-0003-ed2.1-2023 12 08
Cable management systems - Mini-trunking and skirting system

Functional unit

Accommodate and protect the wiring and wiring accessories along 1 metre for a Reference Service Life of the product of 20 years. The mini-trunking and skirting system with cross-section 1600 mm² includes the profile and accessories that are representative of standard use.

The functional unit is based on the use scenario recommended by the PCR for the category of the reference product.

Materials and substances

All useful measures have been adopted to ensure that the materials used in the composition of the product do not contain any substances banned by the legislation in force at the time of marketing.

Plastics			Metals			Others		
	g	%		g	%		g	%
PVC	596.42	74.9%	Zamak	2.40	0.3%	Cardboard	78.57	9.9%
ABS	29.69	3.7%	Silicon	0.26	<0.1%	Calcium Carbonate	40.17	5.0%
PE-LD	12.05	1.5%				Wood	18.96	2.4%
PC	10.70	1.3%				Paper	3.34	0.4%
PE-HD	0.58	<0.1%				Tetrabromobisphenol A	1.28	0.2%
						Other	2.04	0.3%
Total mass of reference product with raw material packaging :			**796.45 g**					
Total mass of reference product (Product + packaging)			**754.52 g**					

System Boundaries

The environmental information included in the PEP covers all the stages of the life cycle, from "cradle to grave".

Manufacturing			Distribution	Installation	Use							End of life				Module D
Raw material extraction and processing	Transport to the manufacturer	Manufacturing	Distribution to the place of operation	Installation on the place of operation	Use or application of the product installed	Maintenance	Repair	Replacement	Restoration	Energy requirements during the use stage	Water requirements during the use stage	Deinstallation	Transport to the waste treatment site	Treatment of waste in view of its reuse, recovery and/or recycling	Disposal	Benefits and loads beyond the system boundaries
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Life cycle stages																

Manufacturing

These products are manufactured by a site that has received an environmental certification ISO 14001.

This phase takes into account raw materials, manufacturing processes, production offcuts and their end-of-life treatment, upstream transport of materials and sub-assemblies to the manufacturing site, and transport from the manufacturing site to the final logistics platform.

Distribution

The packaging has been designed in accordance with current regulations. In particular, the European directive 94/62/CE relative to packaging and packaging waste.

The used packaging is 100% recyclable or recoverable.
Packaging and logistic flows are continuously improved in order to reduce their impact.

This phase taken into account the transport of the finished product, including packaging, to its place of use.

Installation

Installation processes

The processes to install the product are not considered in this study because of their weak impact compared to the other life cycles steps.

This phase only take into account the impact of the packaging waste treatment, and the impact of the product waste treatment generated during the installation phase as specified in the applicable rules for this product category (3% profile losses during installation)

Installation elements (non delivered with the product)

Elements non delivered with the product and needed to install the product are not considered.

Use

Power loss / load dependent			
Active mode		Inactive mode	
Watt	% of time	Watt	% of time
0	0%	0	100%

Power consumption / not load dependent					
Active Sleep phase		Passive Sleep phase		Turn off phase	
Watt	% of time	Watt	% of time	Watt	% of time
0	0%	0	0%	0	100%

For the considered scenario, the product has no energy consumption.

Energy model of the use phase :

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Consumables and maintenance :

None

End of life

Considering the complexity of the recycling channels for electric and electronic equipment impacts, we rely mainely on ESR modules (datasets for WEEE product end of life).

The recycling potential of the product is: 9%. The calculation of this rate is based on the method of the IEC/TR 62635.

Environmental impacts

Evaluation of the environmental impact covers the following life cycle stages: raw materials + manufacturing (RMM), distribution (D), installation (I), use (U) and end of life (EoL).

All calculations are done with EIME software version 6.2.5-4 with the database version CODDE® 2024-04 .
Indicators set : Indicators for PEF EF 3.1 (Compliance: PEP ed.4, EN15804+A2) v2.0
PEP representative of the covered products marketed in: Europe
Energy models considered for each phase

Manufacturing A1-A3	Distribution A4	Installation A5	Use B1-B7	End Of Life C1-C4
Europe	-	Europe	-	Europe

Environmental impact indicators

Indicators	Unit	Manufacturing A1-A3	Distribution A4	Installation A5	Use B1-B7	End Of Life C1-C4	GLOBAL	Module D
Acidification (PEF-AP)	mole H+ eq.	1.23E-02	8.43E-04	1.82E-04	0.00E+00	3.83E-04	1.37E-02	-5.99E-05
Climate change - Total (PEF-GWP)	kg CO2 eq.	2.40E+00	1.33E-01	1.13E-01	0.00E+00	6.30E-01	3.28E+00	-3.14E-02
Climate change-Biogenic (PEF-GWPb)	kg CO2 eq.	-1.82E-02	0.00E+00	3.13E-02	0.00E+00	3.55E-01	3.69E-01	-5.76E-04
Climate change-Fossil (PEF-GWPf)	kg CO2 eq.	2.42E+00	1.33E-01	8.14E-02	0.00E+00	2.75E-01	2.91E+00	-3.08E-02
Climate change-Land use and land use change (PEF-GWPlu)	kg CO2 eq.	7.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-06	0.00E+00
Ecotoxicity, freshwater (PEF-CTUe)	CTUe	1.75E+01	8.72E-02	9.11E-01	0.00E+00	1.47E-01	1.86E+01	-3.60E-01
EF-particulate Matter (PEF-PM)	Incidence of diseases	8.11E-08	6.86E-09	1.02E-09	0.00E+00	1.45E-09	9.04E-08	-5.32E-10
Eutrophication, freshwater (PEF-Epf)	kg P eq.	3.79E-05	4.99E-08	8.36E-07	0.00E+00	1.40E-07	3.89E-05	-9.89E-08
Eutrophication, marine (PEF-Epm)	kg N eq.	1.93E-03	3.95E-04	8.83E-05	0.00E+00	1.72E-04	2.59E-03	-1.67E-05
Eutrophication, terrestrial (PEF-Ept)	mole of N eq.	2.46E-02	4.34E-03	5.85E-04	0.00E+00	2.04E-03	3.15E-02	-1.72E-04
Human toxicity, cancer (PEF-CTUh-c)	CTUh	1.55E-08	2.34E-12	6.48E-09	0.00E+00	8.37E-11	2.20E-08	-6.05E-12
Human toxicity, non-cancer (PEF-CTUh-nc)	CTUh	2.35E-08	4.53E-11	2.99E-10	0.00E+00	1.98E-09	2.58E-08	-1.58E-10
Ionising radiation, human health (PEF-IR)	kg Bq U235 eq.	1.59E+01	3.24E-04	9.69E-03	0.00E+00	3.63E-03	1.59E+01	-6.07E-03
Land use (PEF-LU)	No dimension	6.66E-01	0.00E+00	1.54E-04	0.00E+00	6.01E-02	7.26E-01	-6.04E-01
Ozone depletion (PEF-ODP)	kg CFC-11 eq.	4.46E-07	2.04E-10	8.23E-10	0.00E+00	5.18E-09	4.53E-07	6.24E-10
Photochemical ozone formation - human health (PEF-POCP)	kg of NMVOC eq.	6.37E-03	1.09E-03	1.35E-04	0.00E+00	4.43E-04	8.05E-03	-5.19E-05
Resource use, fossils (PEF-ADPf)	MJ	5.48E+01	1.86E+00	5.77E-01	0.00E+00	5.28E-01	5.77E+01	-6.45E-01
Resource use, minerals and metals (PEF-ADPe)	kg Sb eq	3.00E-06	5.24E-09	-2.12E-07	0.00E+00	-4.97E-06	-2.18E-06	2.93E-08
Water use (PEF-WU)	m3 eq.	2.89E+00	5.06E-04	1.07E-02	0.00E+00	3.12E+00	6.02E+00	-1.51E-01

Resource use indicators

Indicators	Unit	Manufacturing A1-A3	Distribution A4	Installation A5	Use B1-B7	End Of Life C1-C4	GLOBAL	Module D
Net use of fresh water	m3	6.73E-02	1.18E-05	2.49E-04	0.00E+00	1.12E-01	1.80E-01	1.52E-02
Total primary energy	MJ	6.41E+01	1.86E+00	6.52E-01	0.00E+00	5.02E-01	6.71E+01	-7.45E-01
Total non renewable primary energy	MJ	5.48E+01	1.86E+00	5.77E-01	0.00E+00	5.28E-01	5.77E+01	-6.45E-01
Total renewable primary energy	MJ	9.31E+00	2.48E-03	7.43E-02	0.00E+00	-2.63E-02	9.36E+00	-9.95E-02
Non renewable primary energy used as energy	MJ	4.32E+01	1.86E+00	5.77E-01	0.00E+00	5.28E-01	4.61E+01	-6.45E-01
Non renewable primary energy used as raw material	MJ	1.16E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E+01	0.00E+00
Use of non renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Renewable primary energy used as energy	MJ	7.51E+00	2.48E-03	7.43E-02	0.00E+00	-2.63E-02	7.56E+00	-9.95E-02
Renewable primary energy used as raw material	MJ	1.79E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E+00	0.00E+00
Use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of secondary material	kg	1.24E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-01	0.00E+00

Waste category indicators

Indicators	Unit	Manufacturing A1-A3	Distribution A4	Installation A5	Use B1-B7	End Of Life C1-C4	GLOBAL	Module D
Hazardous waste disposed	kg	1.10E-01	0.00E+00	-4.15E-04	0.00E+00	-4.40E-02	6.59E-02	-3.12E-05
Non hazardous waste disposed	kg	3.88E-01	4.67E-03	6.81E-02	0.00E+00	5.81E-01	1.04E+00	-1.11E-02
Radioactive waste disposed	kg	9.40E-05	3.33E-06	3.72E-06	0.00E+00	1.41E-05	1.15E-04	-7.33E-06

Output flow indicators

Indicators	Unit	Manufacturing A1-A3	Distribution A4	Installation A5	Use B1-B7	End Of Life C1-C4	GLOBAL	Module D
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	1.29E-02	0.00E+00	2.16E-02	0.00E+00	1.56E-04	3.47E-02	0.00E+00
Materials for recycling	kg	1.06E-03	0.00E+00	1.75E-03	0.00E+00	0.00E+00	2.81E-03	0.00E+00

Biogenic carbon content

Packaging	Unit	Cardboard	Paper	Wood	Sum
Biogenic carbon content (ratio)	%	2.80E+01	3.78E+01	3.95E+01	
Mass	kg	7.86E-02	4.44E-03	1.90E-02	1.02E-01
Biogenic carbon content (declared unit)	kg of C	2.20E-02	1.68E-03	7.49E-03	3.12E-02
Biogenic carbon content (functional unit)	kg of C	2.20E-02	1.68E-03	7.49E-03	3.12E-02
Source		ADEME	APESA/RECORD	EN 16485	

Product	Unit	Cardboard	Paper	Wood	Sum
Mass	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content (declared unit)	kg of C	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content (functional unit)	kg of C	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Extrapolation rules

The environmental impact of a system covered by the PEP ecopassport® other than the reference system for which it was drawn up can be calculated by multiplying the values of the environmental indicators by the corresponding factor for each stage of the life cycle and the total life cycle.

For the covered systems, we consider material composition of the different parts of the system as described in the below table, according to PSR requirements for the considered Functional Unit.

Range	SL 20x55	***SL 20x80****	SL 20x115	SL LED 20x80	SL 15x100
System dimension [mm x mm]	20x55	20x80	20x115	20x80	15x100
Covered colors	RAL 9016 + 9011	RAL 9016 + 9011	RAL 9016 + 9011 + 9010	RAL 9011 / color D1	RAL 9016 + 9011
Trunking Base material	***30% Recycled PVC**** + 70% Virgin PVC				
Trunking Cover material	100% Virgin PVC				
Accessories material	100% Virgin PC-ABS				
Extrapolation factor	0.8	**1.0**	1.3	1.0	1.1

Reference system
****The recycled PVC is coming from Post-Industrial Recycling sources***
*****colors: D1 = alu***

Verification

Registration N°: HAGE-01348-V01.01-EN	Drafting Rules	PEP-PCR-ed4-2021 09 06
	Supplemented by	PSR-0003-ed2.1-2023 12 08
Verifier accreditation N°: VH35	Information and reference documents: www.pep-ecopassport.org	
Date of issue: 3-2025	Validity period:	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006		
Internal ● External ○		
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)		
PEPs are compliant with XP C08-100-1:2016 or EN 50693:2019 The elements of the present PEP cannot be compared with elements from another program.		
Document in compliance with ISO 14025 : 2006 « Environmental labels and declarations. Type III environmental declarations »		

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