ENVIRONMENTAL PRODUCT DECLARATION

IPC DOOR PROTECTION

IPC DOOR AND WALL PROTECTION SYSTEMS.



Children's Hospital Corridor

inpro_®

Since 1979, Inpro has been eliminating building-related worries by making and servicing products with an obsessive commitment to protecting safety, health, environment and appearance. Inpro, headquartered in Muskego, WI, is the nation's premier manufacturer of architectural products in five divisions including: door and wall protection, washroom systems and commercial surfaces, engineered metal products, privacy systems and architectural signage.

Inpro is committed to sustainable business practices in our dealings with employees, customers, suppliers, government entities and our community neighbors—all with an eye toward our obligation to future generations.

www.inprocorp.com



ENVIRONMENTAL PRODUCT DECLARATION

• IPC™

DOOR + WALL PROTECTION SYSTEMS

IPC Door Protection

UNCPC Code: 36950 - Builders' ware of products

According to ISO 14025

This declaration is an environmental product declaration (EPD) in accordance with ISO 14025. EPDs rely on Life Cycle Assessment (LCA) to provide information on a number of environmental impacts of products over their life cycle. Exclusions: EPDs do not indicate that any environmental or social performance benchmarks are met, and there may be impacts that they do not encompass. LCAs do not typically address the site-specific environmental impacts of raw material extraction, nor are they meant to assess human health toxicity. EPDs can complement but cannot replace tools and certifications that are designed to address these impacts and/or set performance thresholds – e.g. Type 1 certifications, health assessments and declarations, environmental impact



assessments, etc. <u>Accuracy of Results</u>: EPDs regularly rely on estimations of impacts, and the level of accuracy in estimation of effect differs for any particular product line and reported impact. <u>Comparability</u>: EPDs are not comparative assertions and are either not comparable or have limited comparability when they cover different life cycle stages, are based on different product category rules or are missing relevant environmental impacts. EPDs from different programs may not be comparable.

PROGRAM OPERATOR	UL Environment							
DECLARATION HOLDER	Inpro							
DECLARATION NUMBER	13CA36257.102.1							
DECLARED PRODUCT	IPC Door Protection	C Door Protection						
REFERENCE PCR	Construction Products and CPC 54 C	onstruction Products and CPC 54 Construction Services						
DATE OF ISSUE	November 8, 2013							
PERIOD OF VALIDITY	5 years							
	Product definition and information about b	ouilding physics						
	Information about basic material and the r	nformation about basic material and the material's origin						
CONTENTS OF THE DECLARATION	Description of the product's manufacture							
	Indication of product processing							
	Information about the in-use conditions							
	Life cycle assessment results							
	Testing results and verifications							
The PCR review was conductive	ted bv:	Martin Erlandsson						
		Swedish Environmental Research Institute						
		martin.erlandsson@ivl.se						
This declaration was indepen 14025 by Underwriters Labor ☐ INTERNAL	dently verified in accordance with ISO atories ☑ EXTERNAL	Paul Hall						
		Paul Firth						
This life cycle assessment was accordance with ISO 14044 a		Thomas Sprin						
		Thomas Gloria						



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Manufacturer Information

Inpro (IPC) is a manufacturer of building protection products. Products range from wall protection, privacy systems, building joining systems and signage. The World Headquarters and manufacturing campus is located in Muskego, Wisconsin. On-site manufacturing processes include plastic extrusion, injection molding, coloring, assembly, and other processes.

Environmental Management System

Inpro has established, documented, and implemented an ISO 14001 certified environmental management system and maintains and continually improves the effectiveness of this system.

Environmental Policy

Inpro is committed to sustainable business practices in our dealings with employees, customers, suppliers, government entities and our community neighbors—all with an eye toward our obligation to future generations. Through our business operations, we shall:

- Communicate environmental practices to all employees.
- Develop products and processes to minimize adverse environmental impacts.
- Comply with environmental regulations and other requirements.
- Prevent pollution, conserve resources and reduce waste.
- Continually improve our environmental management system.

Contact:

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Inpro S80 W18766 Apollo Drive Muskego, WI 53150



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Product Specification

This EPD covers Inpro's door protection products listed on the following page. Also listed is the mass per unit length, including accessories and adhesives but excluding packaging materials.

Inpro door protection systems are designed for door protection and decoration. Kickplates are made from Inpro Rigid sheet material. They are manufactured to customer supplied sizes and are adhered to the door with factory applied adhesive or contact cement. Door frame guards protect steel door frames from damage. They are custom formed to the customer's size. Door frame guards are adhered with contact cement. Materials include rigid vinyl or Inpro's proprietary G2 BioBlend, a blend of polyethylene terephthalate glycol-modified (PETG) and biopolymer.

Declared Unit

The environmental inventory and impacts are reported using a declared unit of one (1) square meter.

Representative Product	Products Included (Product ID)	Mass (kg/m²)
G2 Kickplate G2-KP6-S-48X48	All G2 Kickplates	4.15
G2 Custom/Vacuum Formed Door Frame Guard G2-369C-04	All G2 Custom/Vacuum Formed Door Frame Guards	4.09
Kickplate KP6-S-48X48	All Kickplates	4.60
Custom/Vacuum Formed Door Frame Guard 369C-04	All Custom/Vacuum Formed Door Frame Guards	4.53

Table 1: Product names and masses per unit length



DOOR + WALL PROTECTION SYSTEMS A DIVISION OF INPRO®

IPC Door Protection
UNCPC Code: 36950 – Builders' ware of products

According to ISO 14025

Product Photos



Children's Hospital Corridor Designer Kickplates | 800 Handrail | 160 Surface Mount Corner Guard



Methodist West Hospital 3000W Handrail | Rigid Sheet Custom Door Frame Guard



Door Frame Guards



Healthcare Hall 1500 Silhouette Wall Guard | Rigid Kickplate 3500WV Silhouette Handrail





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Material Content and Chemical Substances

The breakdown of material content for each product family is shown in Table 2. These materials have been cross-reference against the "Candidate List of Substances of Very High Concern (SVHC)" from the European Chemicals Agency. No SVHC substances are present in the products and are thus not reported in this EPD.

		Material weight breakdown (%)									
Material	G2 Kickplate	G2 custom/vacuum formed door frame guard	Kickplate	Custom/vacuum formed door frame							
G2	98.7	100									
Polyvinyl Chloride (PVC)			98.8	100							
Adhesive	1.3		1.2								

Table 2: Declaration of materials and chemical substances



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Scope

This is a "cradle-to-gate with options" EPD. Manufacturing (A1, A2, A3), packaging (A3, A5), end-of-life disposal and recycling processes (C4) and credits (D) are included within the scope of the EPD. The scope excludes transport of the finished product (A4), the use stage (B1-7), de-construction and demolition (C1), and end-of-life transport (C2) modules because they are case-dependent. Module D is reported per PCR as "Other environmental information". The Reference Service Life (RSL) is declared as "not specified". A summary of included and excluded modules are shown in Table 3.

	DESCRIPTION OF THE SYSTEM BOUNDARY															
PRODU	JCT S		CONSTRU PROCE STAG	ESS		USE STAGE END OF LIFE STAGE					BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES					
Raw material supply	Transport	Manufacturing	Transport	Construction- installation process	nse	Maintenance	Repair	Replacement ¹	Refurbishment ¹	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse- Recovery- Recycling- potential
A1	A2	А3	A4	A5	B1	B2	В3	B4	В5	В6	В7	C1	C2	C3	C4	D
X	Х	Χ	MND	Х	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	Х	Х

Table 3: Summary of included and excluded modules (X = Included in LCA; MND = Module not declared)

Notes:

- A5: limited to disposal of packaging materials. Cardboard is assumed to be recycled, leading to zero values for all impact and most inventory categories, per the cut-off recycling allocation approach. Production of installation materials such as adhesives and brackets are accounted for in A1.
- C4: includes disposal of plastics and other materials
- D: includes recycling credits for aluminum and steel alloys. Recycling rates are 90% for aluminum and 92% for steel alloys, based on expectations for recycling in the building and construction sector.

The products declared in this EPD are only comparable to other products if their analyses follow the same scope and method, including compatibility with EN15804. Thus, EPDs from different programs may not be comparable.

Allocation is necessary to address recycled content, post-production scrap, and waste at end-of-life. The avoided burden allocation approach is applied to metal (aluminum and steel alloys). Under this approach, end-of-life scrap is first balanced out with any open scrap inputs into production. Only the remaining *net scrap* is then modeled as being sent to material recycling in order to avoid double-counting the benefits of using recycled content. If more scrap is recovered at product end-of-life than is required in the manufacturing stage, the product system receives a credit equal to the burden of primary material production minus the burden of recycling scrap into secondary material based on the mass of secondary material produced. This credit represents the avoided burden of primary material production.

The cut-off approach is applied for paper and corrugates since these contain significant recycled contents and primary and secondary material production is closely intertwined. Any open scrap inputs into manufacturing remain unconnected. The system boundary in end of life is drawn after scrap collection to account for the collection rate, which generates an open scrap output for the product system. The processing and recycling of the scrap then becomes part of the subsequent product system and is not considered in this study.



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Environmental Inventory and Impacts

This section contains the absolute results for each product per the declared unit. The following section (interpretation) provides a visual breakdown of the relative impacts, allowing for a more intuitive understanding of where impacts occur in the product life cycle. Biogenic carbon is included in the global warming potential calculations. This is significant for products using G2 plastics, where biogenic carbon that is removed from the atmosphere will remain stored in the product throughout the end of life. The environmental inventory and impacts are reported per EN 15804, as follows:

Environmental Impacts (CML 2001 and TRACI 2.1)

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 (not available for TRACI 2.1)

ADPF Abiotic depletion potential for fossil resources (not available for TRACI 2.1)

SP Smog formation potential

Resource Use

PERE Use of renewable primary energy excluding renewable primary energy resources used as raw materials;

PERM Use of 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

PENRM Use of non renewable primary energy resources used as raw materials

PENRT Total use of non renewable primary energy resources

SM Use of secondary material FW Use of net fresh water

Output Flows and Waste Categories

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
EE Exported energy per energy carrier

(U)

DOOR + WALL PROTECTION SYSTEMS A DIVISION OF INPRO®

IPC Door Protection

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According to ISO 14025

G2 Kickplate

(results given per square meter of product)

ENVIRONMENTAL IMPACTS

CML 2001 (Nov 2010)

			Manufa	End-of-Life	Credits		
Parameter	Unit	A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	1.42E+01	3.37E-01	2.57E+00	0.00E+00	1.78E-01	0.00E+00
ODP	kg CFC-11 eq	4.38E-09	8.69E-12	1.06E-09	0.00E+00	2.07E-11	0.00E+00
AP	kg SO₂ eq	3.72E-02	3.92E-04	1.19E-02	0.00E+00	3.13E-03	0.00E+00
EP	kg PO ₄ 3- eq	5.47E-03	5.06E-05	7.67E-04	0.00E+00	1.27E-03	0.00E+00
POCP	kg C₂H₄ eq	5.42E-03	1.01E-04	9.51E-04	0.00E+00	1.60E-03	0.00E+00
ADPe	kg Sb eq	7.97E-06	4.04E-08	3.25E-07	0.00E+00	6.66E-08	0.00E+00
ADPf	MJ	3.72E+02	4.65E+00	3.84E+01	0.00E+00	2.84E+00	0.00E+00

TRACI 2.1

			Manufa	End-of-Life	Credits		
Parameter	Unit	A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	1.42E+01	3.37E-01	2.57E+00	0.00E+00	1.78E-01	0.00E+00
ODP	kg CFC-11 eq	4.84E-09	9.24E-12	1.12E-09	0.00E+00	2.20E-11	0.00E+00
AP	kg SO₂ eq	3.87E-02	3.98E-04	1.12E-02	0.00E+00	3.56E-03	0.00E+00
EP	kg N eq	1.36E-02	2.53E-05	5.52E-04	0.00E+00	1.06E-03	0.00E+00
SP	kg O₃ eq	6.03E-01	6.52E-03	9.57E-02	0.00E+00	2.21E-02	0.00E+00

			Manufa	End-of-Life	Credits		
Parameter		A1	A2	A3	A5	C4	D
PERE	MJ	4.24E+01	2.71E-02	2.76E+00	0.00E+00	1.32E-01	0.00E+00
PERM	MJ	1.17E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	4.25E+01	2.71E-02	2.76E+00	0.00E+00	1.32E-01	0.00E+00
PENRE	MJ	3.72E+02	4.65E+00	3.84E+01	0.00E+00	2.84E+00	0.00E+00
PENRM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	3.72E+02	4.65E+00	3.84E+01	0.00E+00	2.84E+00	0.00E+00
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m³	1.40E+02	4.56E-01	1.51E+01	0.00E+00	-6.80E+00	0.00E+00

OUTPUT FLOWS AND WASTE CATEGORIES									
			Manufacturing End-of-Life Credits						
Parameter		A1	A2	A3	A5	C4	D		
Hazardous waste	kg	1.01E-02	0.00E+00	1.35E-03	0.00E+00	4.46E-04	0.00E+00		
Non-hazardous Waste	kg	7.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
Radioactive waste	ka	4 25F-03	8 05F-06	3 09F-03	0.00F+00	3 66F-05	0.00F+00		



DOOR + WALL PROTECTION SYSTEMS A DIVISION OF INPRO®

IPC Door Protection

UNCPC Code: 36950 - Builders' ware of products

According to ISO 14025

G2 Custom/Vacuum Formed Door Frame Guard

(results given per meter of square product)

ENVIRONMENTAL IMPACTS

CML 2001 (Nov 2010)

			Manufa	End-of-Life	Credits		
Parameter	Unit	A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	1.40E+01	3.37E-01	2.57E+00	0.00E+00	1.76E-01	0.00E+00
ODP	kg CFC-11 eq	7.81E-09	8.68E-12	1.05E-09	0.00E+00	2.04E-11	0.00E+00
AP	kg SO₂ eq	3.69E-02	3.91E-04	1.19E-02	0.00E+00	3.12E-03	0.00E+00
EP	kg PO ₄ 3- eq	5.44E-03	5.05E-05	7.66E-04	0.00E+00	1.27E-03	0.00E+00
POCP	kg C₂H₄ eq	5.37E-03	1.01E-04	9.50E-04	0.00E+00	1.60E-03	0.00E+00
ADPe	kg Sb eq	7.65E-06	4.03E-08	3.24E-07	0.00E+00	6.57E-08	0.00E+00
ADPf	MJ	3.69E+02	4.64E+00	3.84E+01	0.00E+00	2.80E+00	0.00E+00

TRACI 2.1

			Manufa	End-of-Life	Credits		
Parameter	Unit	A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	1.40E+01	3.36E-01	2.57E+00	0.00E+00	1.76E-01	0.00E+00
ODP	kg CFC-11 eq	9.01E-09	9.23E-12	1.12E-09	0.00E+00	2.17E-11	0.00E+00
AP	kg SO₂ eq	3.84E-02	3.98E-04	1.12E-02	0.00E+00	3.55E-03	0.00E+00
EP	kg N eq	1.30E-02	2.53E-05	5.51E-04	0.00E+00	1.06E-03	0.00E+00
SP	kg O₃ eq	5.99E-01	6.51E-03	9.56E-02	0.00E+00	2.19E-02	0.00E+00
							i

			Manufa	End-of-Life	Credits		
Parameter		A1	A2	A3	A5	C4	D
PERE	MJ	4.18E+01	2.71E-02	2.76E+00	0.00E+00	1.30E-01	0.00E+00
PERM	MJ	4.68E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	4.23E+01	2.71E-02	2.76E+00	0.00E+00	1.30E-01	0.00E+00
PENRE	MJ	3.69E+02	4.64E+00	3.84E+01	0.00E+00	2.80E+00	0.00E+00
PENRM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	3.69E+02	4.64E+00	3.84E+01	0.00E+00	2.80E+00	0.00E+00
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m³	1.39E+02	4.55E-01	1.51E+01	0.00E+00	-6.71E+00	0.00E+00

OUTPUT FLOWS AND WASTE CATEGORIES Manufacturing End-of-Life Credits									
			Manufacturing End-of-Life						
Parameter		A1	A2	A3	A5	C4	D		
Hazardous waste	kg	9.83E-03	0.00E+00	1.35E-03	0.00E+00	4.40E-04	0.00E+00		
Non-hazardous Waste	kg	3.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
Radioactive waste	ka	4 20F-03	8 03F-06	3 08F-03	0.00F+00	3 61F-05	0.00F+00		



DOOR + WALL PROTECTION SYSTEMS A DIVISION OF INPRO®

IPC Door Protection

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According to ISO 14025

Kickplate

(results given per square meter of product)

ENVIRONMENTAL IMPACTS

CML 2001 (Nov 2010)

			Manufa	End-of-Life	Credits		
Parameter	Unit	A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	1.37E+01	5.42E-01	2.16E+00	0.00E+00	1.97E-01	0.00E+00
ODP	kg CFC-11 eq	3.64E-09	1.40E-11	1.05E-09	0.00E+00	2.30E-11	0.00E+00
AP	kg SO ₂ eq	3.76E-02	6.30E-04	1.08E-02	0.00E+00	3.48E-03	0.00E+00
EP	kg PO ₄ 3- eq	3.77E-03	8.13E-05	4.71E-04	0.00E+00	1.41E-03	0.00E+00
POCP	kg C₂H₄ eq	8.28E-03	1.63E-04	2.85E-04	0.00E+00	1.78E-03	0.00E+00
ADPe	kg Sb eq	5.42E-05	6.50E-08	-3.41E-06	0.00E+00	7.38E-08	0.00E+00
ADPf	MJ	3.18E+02	7.47E+00	2.25E+01	0.00E+00	3.15E+00	0.00E+00

TRACI 2.1

			Manufa	End-of-Life	Credits		
Parameter	Unit	A1	A2	A3	A5	C4	D
GWP	kg CO₂ eq	1.37E+01	5.42E-01	2.16E+00	0.00E+00	1.97E-01	0.00E+00
ODP	kg CFC-11 eq	4.05E-09	1.49E-11	1.12E-09	0.00E+00	2.44E-11	0.00E+00
AP	kg SO₂ eq	3.85E-02	6.41E-04	9.85E-03	0.00E+00	3.95E-03	0.00E+00
EP	kg N eq	2.89E-03	4.08E-05	3.71E-04	0.00E+00	1.17E-03	0.00E+00
SP	kg O₃ eq	6.22E-01	1.05E-02	6.58E-02	0.00E+00	2.45E-02	0.00E+00

			Manufa	cturing		End-of-Life	Credits
Parameter		A1	A2	A3	A5	C4	D
PERE	MJ	6.65E+00	4.36E-02	2.77E+00	0.00E+00	1.46E-01	0.00E+00
PERM	MJ	1.17E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	6.76E+00	4.36E-02	2.77E+00	0.00E+00	1.46E-01	0.00E+00
PENRE	MJ	3.18E+02	7.47E+00	2.25E+01	0.00E+00	3.15E+00	0.00E+00
PENRM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	3.18E+02	7.47E+00	2.25E+01	0.00E+00	3.15E+00	0.00E+00
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m³	7.77E+01	7.33E-01	1.30E+01	0.00E+00	-7.54E+00	0.00E+00

OUTPUT FLOWS AND WASTE CATEGORIES									
		Manufacturing End-of-Life Credits							
Parameter		A1	A2	A3	A5	C4	D		
Hazardous waste	kg	8.79E-03	0.00E+00	1.01E-02	0.00E+00	4.95E-04	0.00E+00		
Non-hazardous Waste	kg	7.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
Radioactive waste	ka	6.37F-03	1 29F-05	3 14F-03	0.00F+00	4 06F-05	0.00F+00		



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Custom/Vacuum Formed Door Frame Guards

(results given per square meter of product)

ENVIRONMENTAL IMPACTS

CML 2001 (Nov 2010)

			Manufa	End-of-Life	Credits		
Parameter	Unit	A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	1.36E+01	5.42E-01	2.16E+00	0.00E+00	1.95E-01	0.00E+00
ODP	kg CFC-11 eq	7.06E-09	1.40E-11	1.05E-09	0.00E+00	2.27E-11	0.00E+00
AP	kg SO ₂ eq	3.74E-02	6.30E-04	1.08E-02	0.00E+00	3.46E-03	0.00E+00
EP	kg PO ₄ 3- eq	3.75E-03	8.13E-05	4.71E-04	0.00E+00	1.40E-03	0.00E+00
POCP	kg C₂H₄ eq	8.24E-03	1.62E-04	2.85E-04	0.00E+00	1.78E-03	0.00E+00
ADPe	kg Sb eq	5.38E-05	6.49E-08	-3.41E-06	0.00E+00	7.29E-08	0.00E+00
ADPf	MJ	3.14E+02	7.47E+00	2.25E+01	0.00E+00	3.11E+00	0.00E+00

TRACI 2.1

			Manufa	End-of-Life	Credits		
Parameter	Unit	A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	1.35E+01	5.41E-01	2.16E+00	0.00E+00	1.95E-01	0.00E+00
ODP	kg CFC-11 eq	8.22E-09	1.49E-11	1.12E-09	0.00E+00	2.41E-11	0.00E+00
AP	kg SO₂ eq	3.82E-02	6.40E-04	9.84E-03	0.00E+00	3.94E-03	0.00E+00
EP	kg N eq	2.24E-03	4.07E-05	3.71E-04	0.00E+00	1.17E-03	0.00E+00
SP	kg O₃ eq	6.18E-01	1.05E-02	6.57E-02	0.00E+00	2.43E-02	0.00E+00

			Manufa	End-of-Life	Credits		
Parameter		A1	A2	A3	A5	C4	D
PERE	MJ	6.10E+00	4.36E-02	2.77E+00	0.00E+00	1.44E-01	0.00E+00
PERM	MJ	4.68E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	6.56E+00	4.36E-02	2.77E+00	0.00E+00	1.44E-01	0.00E+00
PENRE	MJ	3.15E+02	7.47E+00	2.25E+01	0.00E+00	3.11E+00	0.00E+00
PENRM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	3.15E+02	7.47E+00	2.25E+01	0.00E+00	3.11E+00	0.00E+00
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m³	7.62E+01	7.33E-01	1.30E+01	0.00E+00	-7.44E+00	0.00E+00

OUTPUT FLOWS AND WASTE CATEGORIES									
			Manufacturing End-of-Life Credits						
Parameter		A1	A2	A3	A5	C4	D		
Hazardous waste	kg	8.52E-03	0.00E+00	1.01E-02	0.00E+00	4.88E-04	0.00E+00		
Non-hazardous Waste	kg	3.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
Radioactive waste	ka	6.31F-03	1 29F-05	3 14F-03	0.00F+00	4 01F-05	0.00F+00		



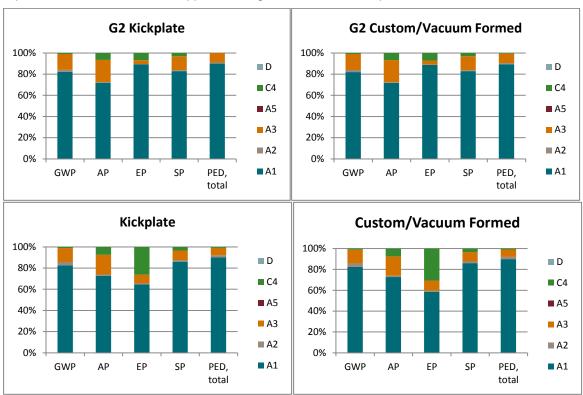
DOOR + WALL PROTECTION SYSTEMS A DIVISION OF INPRO®

IPC Door Protection
UNCPC Code: 36950 – Builders' ware of products

According to ISO 14025

Interpretation

The following plots show the breakdown of environmental impacts (TRACI 2.1) and total Primary Energy Demand (PED, total) over the life cycle. The raw materials supply (A1), which includes plastics and aluminum, is the highest source of impact across all impact categories. Manufacturing (A3) still has a significant impact due to the extrusion, injection molding, and other processing occurring at the Inpro facility. Credits for recycling potential for steel are represented in module D and appear as negative values on the plots.





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Additional Information

Additional information, including product details and company information, can be found at Inpro's website: www.inprocorp.com.

References

EN 15804:2011-04: Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products.

ISO 14025. DIN EN ISO 14025:2009-11: Environmental labels and declarations — Type III environmental declarations — Principles and procedures.

The International EPD System. 2012, January. Product Category Rules: Construction Products and CPC 54 Construction Services. Version 1.2.

PE INTERNATIONAL. 2013, November. Life Cycle Assessment of Plastic Building Components.

