

ENVIRONMENTAL PRODUCT DECLARATION

IPC CORNER GUARD

IPC DOOR AND WALL PROTECTION SYSTEMS



Phoenix Children's Hospital



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.

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ENVIRONMENTAL PRODUCT DECLARATION



DOOR + WALL PROTECTION SYSTEMS
A DIVISION OF INPRO®

IPC Corner Guards

UNPCPC 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. Accuracy of Results: 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. Comparability: 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	13CA36257.101.1
DECLARED PRODUCT	IPC Corner Guards
REFERENCE PCR	Construction Products and CPC 54 Construction Services

DATE OF ISSUE	November 8, 2013
PERIOD OF VALIDITY	5 years

CONTENTS OF THE DECLARATION	Product definition and information about building physics Information about basic material and the material's origin Description of the product's manufacture Indication of product processing Information about the in-use conditions Life cycle assessment results Testing results and verifications
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The PCR review was conducted by:	Martin Erlandsson Swedish Environmental Research Institute martin.erlandsson@ivl.se
This declaration was independently verified in accordance with ISO 14025 by Underwriters Laboratories ☐ INTERNAL ☒ EXTERNAL	 Paul Firth
This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by:	 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.

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Muskego, WI 53150

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Product Specification

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

Inpro corner guard systems are designed for wall protection and decoration. Corner guards are designed to protect corners from damage. Corner guards are installed with a variety of methods. Extruded plastic corner guards are adhered to the wall with foam tape or construction adhesive. Other systems include retainers and end caps, which are mechanically attached to the wall. Extruded covers are snapped over the retainers to complete the installation. Flush mount systems align flush with the wall and include extruded covers to complete the installation. Flush mount systems may include components to maintain the fire rating of walls. Cover 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) meter.

Representative Product	Products Included (Product ID)	Mass (kg/m)
Flexible 11212F	All Flexible Corner Guards	0.30
G2 Tape-on Rigid G2-3312	All G2 Tape-On Corner Guards	0.40
G2 Flush Mount G2-1312F	All G2 Flush Mount Corner Guards	2.53
G2 Fire Rated Flush Mount G2-138FR2	All G2 Fire Rated Flush Mount Corner Guards	5.47
G2 Surface Mount Aluminum Retainer G2-1312	All G2 Surface Mount Aluminum Retainer Corner Guards	1.17
Tape-on Rigid 3312W	All Tape-On Rigid Corner Guards	0.46
Surface Mount Aluminum Retainer 1312W	All Surface Mount Aluminum Retainer Corner Guards	1.23
Surface Mount BluNose Retainer 1312WBN	All Surface Mount BluNose Retainer Corner Guards	1.36
Flush Mount 1312F	All Flush Mount Corner Guards	2.20
Fire Rated Flush Mount 1312F2W	All Fire Rated Flush Mount Corner Guards	4.00

Table 1: Product names and masses per unit length



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Product Photos



Seven Oaks General Hospital
150 Surface Mount Corner Guard



University of Northern Iowa
150 Surface Mount Corner Guard



Courtyard by Marriott
150 Surface Mount Corner Guard



Phoenix Children's Hospital 130 Surface Mount Corner Guard

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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	Material weight breakdown (%)									
	Flexible	G2 Tape-on	G2 Flush Mount	G2 Fire Rated Flush Mount	G2 Surface Mount Aluminum Retainer	Tape-on Rigid	Surface Mount Aluminum Retainer	Surface Mount Blunose Retainer	Flush Mount	Fire Rated Flush Mount
Acrylonitrile butadiene styrene (ABS)					1.0		0.4	0.7		
G2		97.2	30.9	10.7	33.3					
Polyvinyl Chloride (PVC)						97.6	36.8	96.8	20.5	11.3
Flexible PVC	100							1.8		
Adhesive		2.8				2.4				
Aluminum			69.0	39.7	64.9		62.0		79.4	43.6
Fire blanket				21.4						19.5
Galvanized steel				27.9						25.4
Steel			0.1	0.3	0.8		0.8	0.7	0.1	0.2

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																
PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES
Raw material supply	Transport	Manufacturing	Transport	Construction-installation process	Use	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	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	MND	X	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	X	X

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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According to ISO 14025

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



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According to ISO 14025

Flexible Corner Guards

(results given per meter of product)

ENVIRONMENTAL IMPACTS

CML 2001 (Nov 2010)

Parameter	Unit	Manufacturing				End-of-Life	Credits
		A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	9.66E-01	2.95E-02	1.43E-01	0.00E+00	1.28E-02	0.00E+00
ODP	kg CFC-11 eq	2.52E-09	7.60E-13	6.94E-11	0.00E+00	1.49E-12	0.00E+00
AP	kg SO ₂ eq	2.32E-03	3.43E-05	7.08E-04	0.00E+00	2.27E-04	0.00E+00
EP	kg PO ₄ ³⁻ eq	2.29E-04	4.42E-06	3.11E-05	0.00E+00	9.21E-05	0.00E+00
POCP	kg C ₂ H ₄ eq	8.16E-04	8.84E-06	1.89E-05	0.00E+00	1.17E-04	0.00E+00
ADPe	kg Sb eq	1.37E-06	3.53E-09	-2.24E-07	0.00E+00	4.78E-09	0.00E+00
ADPf	MJ	2.74E+01	4.06E-01	1.49E+00	0.00E+00	2.04E-01	0.00E+00

TRACI 2.1

Parameter	Unit	Manufacturing				End-of-Life	Credits
		A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	9.66E-01	2.95E-02	1.43E-01	0.00E+00	1.28E-02	0.00E+00
ODP	kg CFC-11 eq	3.05E-09	8.09E-13	7.38E-11	0.00E+00	1.58E-12	0.00E+00
AP	kg SO ₂ eq	2.34E-03	3.48E-05	6.48E-04	0.00E+00	2.58E-04	0.00E+00
EP	kg N eq	3.35E-04	2.22E-06	2.44E-05	0.00E+00	7.69E-05	0.00E+00
SP	kg O ₃ eq	3.64E-02	5.71E-04	4.34E-03	0.00E+00	1.59E-03	0.00E+00

RESOURCE USE

Parameter	Unit	Manufacturing				End-of-Life	Credits
		A1	A2	A3	A5	C4	D
PERE	MJ	3.82E-01	2.37E-03	1.82E-01	0.00E+00	9.47E-03	0.00E+00
PERM	MJ	2.44E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	6.26E-01	2.37E-03	1.82E-01	0.00E+00	9.47E-03	0.00E+00
PENRE	MJ	2.74E+01	4.06E-01	1.49E+00	0.00E+00	2.04E-01	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	2.74E+01	4.06E-01	1.49E+00	0.00E+00	2.04E-01	0.00E+00
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	5.00E+00	3.99E-02	8.58E-01	0.00E+00	-4.88E-01	0.00E+00

OUTPUT FLOWS AND WASTE CATEGORIES

Parameter	Unit	Manufacturing				Credits	
		A1	A2	A3	A5	C4	D
Hazardous waste	kg	6.03E-04	0.00E+00	6.64E-04	0.00E+00	3.20E-05	0.00E+00
Non-hazardous Waste	kg	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Radioactive waste	kg	3.08E-04	7.04E-07	2.06E-04	0.00E+00	2.63E-06	0.00E+00

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IPC Corner Guards
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According to ISO 14025

G2 Tape-on Rigid

(results given per meter of product)

ENVIRONMENTAL IMPACTS

CML 2001 (Nov 2010)

Parameter	Unit	Manufacturing				End-of-Life	Credits
		A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	1.35E+00	3.27E-02	2.46E-01	0.00E+00	1.73E-02	0.00E+00
ODP	kg CFC-11 eq	3.00E-09	8.42E-13	1.01E-10	0.00E+00	2.01E-12	0.00E+00
AP	kg SO ₂ eq	3.69E-03	3.79E-05	1.14E-03	0.00E+00	3.00E-04	0.00E+00
EP	kg PO ₄ ³⁻ eq	5.52E-04	4.90E-06	7.34E-05	0.00E+00	1.21E-04	0.00E+00
POCP	kg C ₂ H ₄ eq	5.34E-04	9.79E-06	9.10E-05	0.00E+00	1.53E-04	0.00E+00
ADPe	kg Sb eq	8.11E-07	3.91E-09	3.12E-08	0.00E+00	6.45E-09	0.00E+00
ADPf	MJ	3.63E+01	4.50E-01	3.68E+00	0.00E+00	2.75E-01	0.00E+00

TRACI 2.1

Parameter	Unit	Manufacturing				End-of-Life	Credits
		A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	1.35E+00	3.26E-02	2.46E-01	0.00E+00	1.72E-02	0.00E+00
ODP	kg CFC-11 eq	3.60E-09	8.95E-13	1.07E-10	0.00E+00	2.13E-12	0.00E+00
AP	kg SO ₂ eq	3.84E-03	3.86E-05	1.07E-03	0.00E+00	3.41E-04	0.00E+00
EP	kg N eq	1.41E-03	2.45E-06	5.28E-05	0.00E+00	1.01E-04	0.00E+00
SP	kg O ₃ eq	5.98E-02	6.32E-04	9.17E-03	0.00E+00	2.12E-03	0.00E+00

RESOURCE USE

Parameter	Unit	Manufacturing				End-of-Life	Credits
		A1	A2	A3	A5	C4	D
PERE	MJ	4.10E+00	2.63E-03	2.64E-01	0.00E+00	1.28E-02	0.00E+00
PERM	MJ	2.72E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	4.37E+00	2.63E-03	2.64E-01	0.00E+00	1.28E-02	0.00E+00
PENRE	MJ	3.63E+01	4.50E-01	3.68E+00	0.00E+00	2.75E-01	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	3.63E+01	4.50E-01	3.68E+00	0.00E+00	2.75E-01	0.00E+00
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	1.30E+01	4.42E-02	1.45E+00	0.00E+00	-6.58E-01	0.00E+00

OUTPUT FLOWS AND WASTE CATEGORIES

Parameter	Unit	Manufacturing				Credits	
		A1	A2	A3	A5	C4	D
Hazardous waste	kg	9.91E-04	0.00E+00	1.29E-04	0.00E+00	4.32E-05	0.00E+00
Non-hazardous Waste	kg	1.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Radioactive waste	kg	4.29E-04	7.79E-07	2.95E-04	0.00E+00	3.55E-06	0.00E+00



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G2 Surface Mount Aluminum Retainer

(results given per meter of product)

ENVIRONMENTAL IMPACTS

CML 2001 (Nov 2010)

		Manufacturing				End-of-Life	Credits
Parameter	Unit	A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	9.22E+00	4.44E-02	2.78E-01	0.00E+00	2.06E-02	-5.59E+00
ODP	kg CFC-11 eq	7.24E-09	1.14E-12	1.12E-10	0.00E+00	2.40E-12	1.41E-08
AP	kg SO ₂ eq	4.57E-02	5.15E-05	1.26E-03	0.00E+00	3.21E-04	-3.15E-02
EP	kg PO ₄ ³⁻ eq	2.55E-03	6.65E-06	7.97E-05	0.00E+00	1.26E-04	-1.42E-03
POCP	kg C ₂ H ₄ eq	2.87E-03	1.33E-05	9.82E-05	0.00E+00	1.59E-04	-1.71E-03
ADPe	kg Sb eq	1.82E-05	5.31E-09	3.51E-08	0.00E+00	7.71E-09	-2.50E-06
ADPf	MJ	1.36E+02	6.11E-01	4.12E+00	0.00E+00	3.29E-01	-6.81E+01

TRACI 2.1

		Manufacturing				End-of-Life	Credits
Parameter	Unit	A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	9.21E+00	4.43E-02	2.78E-01	0.00E+00	2.06E-02	-5.59E+00
ODP	kg CFC-11 eq	8.39E-09	1.22E-12	1.19E-10	0.00E+00	2.55E-12	1.54E-08
AP	kg SO ₂ eq	4.33E-02	5.24E-05	1.18E-03	0.00E+00	3.64E-04	-2.94E-02
EP	kg N eq	2.21E-03	3.33E-06	5.63E-05	0.00E+00	1.06E-04	-6.23E-04
SP	kg O ₃ eq	4.19E-01	8.58E-04	1.02E-02	0.00E+00	2.37E-03	-2.58E-01

RESOURCE USE

		Manufacturing				End-of-Life	Credits
Parameter		A1	A2	A3	A5	C4	D
PERE	MJ	3.55E+01	3.57E-03	2.93E-01	0.00E+00	1.53E-02	-2.43E+01
PERM	MJ	4.53E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	3.60E+01	3.57E-03	2.93E-01	0.00E+00	1.53E-02	-2.43E+01
PENRE	MJ	1.36E+02	6.11E-01	4.12E+00	0.00E+00	3.29E-01	-6.78E+01
PENRM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	1.36E+02	6.11E-01	4.12E+00	0.00E+00	3.29E-01	-6.78E+01
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	9.74E+01	6.00E-02	1.59E+00	0.00E+00	-7.87E-01	-6.63E+01

OUTPUT FLOWS AND WASTE CATEGORIES

		Manufacturing					Credits
Parameter		A1	A2	A3	A5	C4	D
Hazardous waste	kg	2.60E-03	0.00E+00	1.69E-04	0.00E+00	5.16E-05	2.91E-02
Non-hazardous Waste	kg	2.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-01
Radioactive waste	kg	8.92E-03	1.06E-06	3.27E-04	0.00E+00	4.24E-06	-5.96E-03



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IPC Corner Guards
UNCPC Code: 36950 – Builders' ware of products

According to ISO 14025

G2 Flush Mount

(results given per meter of product)

ENVIRONMENTAL IMPACTS

CML 2001 (Nov 2010)

Parameter	Unit	Manufacturing				End-of-Life	Credits
		A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	2.06E+01	8.82E-02	5.51E-01	0.00E+00	4.11E-02	-1.28E+01
ODP	kg CFC-11 eq	1.01E-08	2.27E-12	2.20E-10	0.00E+00	4.78E-12	3.17E-08
AP	kg SO ₂ eq	1.03E-01	1.02E-04	2.48E-03	0.00E+00	6.28E-04	-7.20E-02
EP	kg PO ₄ ³⁻ eq	5.57E-03	1.32E-05	1.59E-04	0.00E+00	2.45E-04	-3.25E-03
POCP	kg C ₂ H ₄ eq	6.33E-03	2.64E-05	1.95E-04	0.00E+00	3.10E-04	-3.90E-03
ADPe	kg Sb eq	1.38E-05	1.06E-08	7.20E-08	0.00E+00	1.54E-08	-5.53E-06
ADPf	MJ	2.97E+02	1.21E+00	8.26E+00	0.00E+00	6.56E-01	-1.56E+02

TRACI 2.1

Parameter	Unit	Manufacturing				End-of-Life	Credits
		A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	2.06E+01	8.80E-02	5.51E-01	0.00E+00	4.11E-02	-1.28E+01
ODP	kg CFC-11 eq	1.14E-08	2.42E-12	2.34E-10	0.00E+00	5.09E-12	3.46E-08
AP	kg SO ₂ eq	9.69E-02	1.04E-04	2.34E-03	0.00E+00	7.11E-04	-6.72E-02
EP	kg N eq	4.57E-03	6.62E-06	1.13E-04	0.00E+00	2.07E-04	-1.43E-03
SP	kg O ₃ eq	9.29E-01	1.71E-03	2.03E-02	0.00E+00	4.68E-03	-5.90E-01

RESOURCE USE

Parameter	Unit	Manufacturing				End-of-Life	Credits
		A1	A2	A3	A5	C4	D
PERE	MJ	8.00E+01	7.09E-03	5.75E-01	0.00E+00	3.05E-02	-5.57E+01
PERM	MJ	4.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	8.04E+01	7.09E-03	5.75E-01	0.00E+00	3.05E-02	-5.57E+01
PENRE	MJ	2.97E+02	1.21E+00	8.26E+00	0.00E+00	6.56E-01	-1.55E+02
PENRM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	2.97E+02	1.21E+00	8.26E+00	0.00E+00	6.56E-01	-1.55E+02
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	2.19E+02	1.19E-01	3.14E+00	0.00E+00	-1.57E+00	-1.52E+02

OUTPUT FLOWS AND WASTE CATEGORIES

Parameter	Unit	Manufacturing				Credits	
		A1	A2	A3	A5	C4	D
Hazardous waste	kg	5.63E-03	0.00E+00	2.89E-04	0.00E+00	1.03E-04	6.67E-02
Non-hazardous Waste	kg	2.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01
Radioactive waste	kg	2.02E-02	2.10E-06	6.42E-04	0.00E+00	8.46E-06	-1.36E-02



ENVIRONMENTAL PRODUCT DECLARATION



DOOR + WALL PROTECTION SYSTEMS
A DIVISION OF INPRO®

IPC Corner Guards
UNCPC Code: 36950 – Builders' ware of products

According to ISO 14025

G2 Fire Rated Flush Mount

(results given per meter of product)

ENVIRONMENTAL IMPACTS

CML 2001 (Nov 2010)

		Manufacturing				End-of-Life	Credits
Parameter	Unit	A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	3.31E+01	9.76E-02	5.32E-01	0.00E+00	3.99E-02	-1.78E+01
ODP	kg CFC-11 eq	1.31E-08	2.51E-12	2.01E-10	0.00E+00	4.63E-12	9.89E-08
AP	kg SO ₂ eq	1.52E-01	1.13E-04	2.27E-03	0.00E+00	5.08E-04	-9.42E-02
EP	kg PO ₄ ³⁻ eq	9.13E-03	1.46E-05	1.43E-04	0.00E+00	1.87E-04	-4.17E-03
POCP	kg C ₂ H ₄ eq	1.02E-02	2.92E-05	1.72E-04	0.00E+00	2.37E-04	-5.86E-03
ADPe	kg Sb eq	3.47E-04	1.17E-08	7.36E-08	0.00E+00	1.49E-08	-2.58E-05
ADPf	MJ	4.45E+02	1.34E+00	8.01E+00	0.00E+00	6.36E-01	-2.12E+02

TRACI 2.1

		Manufacturing				End-of-Life	Credits
Parameter	Unit	A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	3.31E+01	9.75E-02	5.32E-01	0.00E+00	3.98E-02	-1.78E+01
ODP	kg CFC-11 eq	1.40E-08	2.68E-12	2.14E-10	0.00E+00	4.93E-12	1.08E-07
AP	kg SO ₂ eq	1.45E-01	1.15E-04	2.14E-03	0.00E+00	5.71E-04	-8.82E-02
EP	kg N eq	6.30E-03	7.33E-06	1.00E-04	0.00E+00	1.61E-04	-1.85E-03
SP	kg O ₃ eq	1.50E+00	1.89E-03	1.91E-02	0.00E+00	4.10E-03	-7.79E-01

RESOURCE USE

		Manufacturing				End-of-Life	Credits
Parameter		A1	A2	A3	A5	C4	D
PERE	MJ	1.01E+02	7.85E-03	5.24E-01	0.00E+00	2.95E-02	-6.84E+01
PERM	MJ	6.10E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	1.01E+02	7.85E-03	5.24E-01	0.00E+00	2.95E-02	-6.84E+01
PENRE	MJ	4.45E+02	1.34E+00	8.01E+00	0.00E+00	6.36E-01	-2.11E+02
PENRM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	4.45E+02	1.34E+00	8.01E+00	0.00E+00	6.36E-01	-2.11E+02
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	2.87E+02	1.32E-01	2.85E+00	0.00E+00	-1.52E+00	-1.88E+02

OUTPUT FLOWS AND WASTE CATEGORIES

		Manufacturing					Credits
Parameter		A1	A2	A3	A5	C4	D
Hazardous waste	kg	1.12E-02	0.00E+00	2.77E-04	0.00E+00	9.98E-05	8.21E-02
Non-hazardous Waste	kg	4.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-01
Radioactive waste	kg	2.78E-02	2.33E-06	5.85E-04	0.00E+00	8.20E-06	-1.64E-02



ENVIRONMENTAL PRODUCT DECLARATION



DOOR + WALL PROTECTION SYSTEMS
A DIVISION OF INPRO®

IPC Corner Guards
UNCPC Code: 36950 – Builders' ware of products

According to ISO 14025

Tape-on Rigid

(results given per meter of product)

ENVIRONMENTAL IMPACTS

CML 2001 (Nov 2010)

Parameter	Unit	Manufacturing				End-of-Life	Credits
		A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	1.36E+00	5.42E-02	2.15E-01	0.00E+00	1.98E-02	0.00E+00
ODP	kg CFC-11 eq	2.93E-09	1.40E-12	1.05E-10	0.00E+00	2.30E-12	0.00E+00
AP	kg SO ₂ eq	3.87E-03	6.30E-05	1.07E-03	0.00E+00	3.45E-04	0.00E+00
EP	kg PO ₄ ³⁻ eq	4.03E-04	8.13E-06	4.69E-05	0.00E+00	1.39E-04	0.00E+00
POCP	kg C ₂ H ₄ eq	8.37E-04	1.62E-05	2.85E-05	0.00E+00	1.76E-04	0.00E+00
ADPe	kg Sb eq	5.42E-06	6.49E-09	-3.38E-07	0.00E+00	7.40E-09	0.00E+00
ADPf	MJ	3.22E+01	7.47E-01	2.25E+00	0.00E+00	3.16E-01	0.00E+00

TRACI 2.1

Parameter	Unit	Manufacturing				End-of-Life	Credits
		A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	1.36E+00	5.41E-02	2.15E-01	0.00E+00	1.98E-02	0.00E+00
ODP	kg CFC-11 eq	3.53E-09	1.49E-12	1.11E-10	0.00E+00	2.45E-12	0.00E+00
AP	kg SO ₂ eq	3.96E-03	6.40E-05	9.79E-04	0.00E+00	3.92E-04	0.00E+00
EP	kg N eq	3.88E-04	4.07E-06	3.69E-05	0.00E+00	1.16E-04	0.00E+00
SP	kg O ₃ eq	6.38E-02	1.05E-03	6.55E-03	0.00E+00	2.44E-03	0.00E+00

RESOURCE USE

Parameter	Unit	Manufacturing				End-of-Life	Credits
		A1	A2	A3	A5	C4	D
PERE	MJ	7.15E-01	4.36E-03	2.75E-01	0.00E+00	1.47E-02	0.00E+00
PERM	MJ	2.72E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	9.87E-01	4.36E-03	2.75E-01	0.00E+00	1.47E-02	0.00E+00
PENRE	MJ	3.22E+01	7.47E-01	2.25E+00	0.00E+00	3.16E-01	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	3.22E+01	7.47E-01	2.25E+00	0.00E+00	3.16E-01	0.00E+00
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	7.33E+00	7.33E-02	1.30E+00	0.00E+00	-7.56E-01	0.00E+00

OUTPUT FLOWS AND WASTE CATEGORIES

Parameter	Unit	Manufacturing				Credits	
		A1	A2	A3	A5	C4	D
Hazardous waste	kg	8.97E-04	0.00E+00	1.00E-03	0.00E+00	4.96E-05	0.00E+00
Non-hazardous Waste	kg	1.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Radioactive waste	kg	6.54E-04	1.29E-06	3.12E-04	0.00E+00	4.07E-06	0.00E+00



ENVIRONMENTAL PRODUCT DECLARATION



DOOR + WALL PROTECTION SYSTEMS
A DIVISION OF INPRO®

IPC Corner Guards
UNCPD Code: 36950 – Builders' ware of products

According to ISO 14025

Surface Mount Aluminum Retainer

(results given per meter of product)

ENVIRONMENTAL IMPACTS

CML 2001 (Nov 2010)

Parameter	Unit	Manufacturing				End-of-Life	Credits
		A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	9.20E+00	6.55E-02	2.48E-01	0.00E+00	2.30E-02	-5.59E+00
ODP	kg CFC-11 eq	6.77E-09	1.69E-12	1.15E-10	0.00E+00	2.67E-12	1.41E-08
AP	kg SO ₂ eq	4.58E-02	7.60E-05	1.19E-03	0.00E+00	3.63E-04	-3.15E-02
EP	kg PO ₄ ³⁻ eq	2.39E-03	9.81E-06	5.56E-05	0.00E+00	1.43E-04	-1.42E-03
POCP	kg C ₂ H ₄ eq	3.17E-03	1.96E-05	6.65E-04	0.00E+00	1.81E-04	-1.71E-03
ADPe	kg Sb eq	2.28E-05	7.84E-09	-3.34E-07	0.00E+00	8.59E-09	-2.50E-06
ADPf	MJ	1.32E+02	9.02E-01	2.75E+00	0.00E+00	3.67E-01	-6.81E+01

TRACI 2.1

Parameter	Unit	Manufacturing				End-of-Life	Credits
		A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	9.20E+00	6.54E-02	2.48E-01	0.00E+00	2.30E-02	-5.59E+00
ODP	kg CFC-11 eq	7.83E-09	1.79E-12	1.22E-10	0.00E+00	2.84E-12	1.54E-08
AP	kg SO ₂ eq	4.33E-02	7.73E-05	1.09E-03	0.00E+00	4.11E-04	-2.94E-02
EP	kg N eq	1.17E-03	4.92E-06	4.47E-05	0.00E+00	1.20E-04	-6.23E-04
SP	kg O ₃ eq	4.22E-01	1.27E-03	1.25E-02	0.00E+00	2.67E-03	-2.58E-01

RESOURCE USE

Parameter	Unit	Manufacturing				End-of-Life	Credits
		A1	A2	A3	A5	C4	D
PERE	MJ	3.21E+01	5.26E-03	-1.04E-01	-5.08E-03	1.19E-02	-2.47E+01
PERM	MJ	4.12E-01	0.00E+00	4.12E-01	5.08E-03	5.08E-03	4.07E-01
PERT	MJ	3.25E+01	5.26E-03	3.08E-01	0.00E+00	1.70E-02	-2.43E+01
PENRE	MJ	1.32E+02	9.02E-01	2.75E+00	0.00E+00	3.67E-01	-6.78E+01
PENRM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	1.32E+02	9.02E-01	2.75E+00	0.00E+00	3.67E-01	-6.78E+01
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	9.17E+01	8.85E-02	1.46E+00	0.00E+00	-8.77E-01	-6.63E+01

OUTPUT FLOWS AND WASTE CATEGORIES

Parameter	Unit	Manufacturing				Credits	
		A1	A2	A3	A5	C4	D
Hazardous waste	kg	2.50E-03	0.00E+00	1.11E-03	0.00E+00	5.76E-05	2.91E-02
Non-hazardous Waste	kg	2.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-01
Radioactive waste	kg	9.14E-03	1.56E-06	3.41E-04	0.00E+00	4.73E-06	-5.96E-03

ENVIRONMENTAL PRODUCT DECLARATION



DOOR + WALL PROTECTION SYSTEMS
A DIVISION OF INPRO®

IPC Corner Guards
UNCPC Code: 36950 – Builders' ware of products

According to ISO 14025

Surface Mount BluNose Retainer

(results given per meter of product)

ENVIRONMENTAL IMPACTS

CML 2001 (Nov 2010)

Parameter	Unit	Manufacturing				End-of-Life	Credits
		A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	4.10E+00	1.61E-01	6.50E-01	0.00E+00	5.82E-02	-9.16E-03
ODP	kg CFC-11 eq	8.54E-10	4.14E-12	3.15E-10	0.00E+00	6.76E-12	2.93E-10
AP	kg SO ₂ eq	1.13E-02	1.87E-04	3.22E-03	0.00E+00	1.03E-03	-2.19E-05
EP	kg PO ₄ ³⁻ eq	1.12E-03	2.41E-05	1.45E-04	0.00E+00	4.19E-04	-6.04E-07
POCP	kg C ₂ H ₄ eq	2.48E-03	4.82E-05	1.35E-03	0.00E+00	5.30E-04	-4.89E-06
ADPe	kg Sb eq	2.99E-05	1.93E-08	-1.01E-06	0.00E+00	2.17E-08	-9.34E-08
ADPf	MJ	9.49E+01	2.22E+00	6.82E+00	0.00E+00	9.28E-01	-8.64E-02

TRACI 2.1

Parameter	Unit	Manufacturing				End-of-Life	Credits
		A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	4.10E+00	1.61E-01	6.50E-01	0.00E+00	5.81E-02	-9.16E-03
ODP	kg CFC-11 eq	9.17E-10	4.41E-12	3.35E-10	0.00E+00	7.19E-12	3.19E-10
AP	kg SO ₂ eq	1.15E-02	1.90E-04	2.95E-03	0.00E+00	1.17E-03	-2.22E-05
EP	kg N eq	6.82E-04	1.21E-05	1.18E-04	0.00E+00	3.49E-04	-3.43E-07
SP	kg O ₃ eq	1.86E-01	3.11E-03	2.94E-02	0.00E+00	7.24E-03	-2.15E-04

RESOURCE USE

Parameter	Unit	Manufacturing				End-of-Life	Credits
		A1	A2	A3	A5	C4	D
PERE	MJ	1.85E+00	1.29E-02	8.39E-01	0.00E+00	4.31E-02	4.98E-03
PERM	MJ	5.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	1.85E+00	1.29E-02	8.39E-01	0.00E+00	4.31E-02	4.98E-03
PENRE	MJ	9.49E+01	2.22E+00	6.82E+00	0.00E+00	9.28E-01	-8.62E-02
PENRM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	9.49E+01	2.22E+00	6.82E+00	0.00E+00	9.28E-01	-8.62E-02
SM	kg	1.01E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	2.32E+01	2.17E-01	3.94E+00	0.00E+00	-2.22E+00	2.88E-03

OUTPUT FLOWS AND WASTE CATEGORIES

Parameter	Unit	Manufacturing				Credits	
		A1	A2	A3	A5	C4	D
Hazardous waste	kg	2.54E-03	0.00E+00	3.17E-03	0.00E+00	1.46E-04	-4.85E-06
Non-hazardous Waste	kg	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04
Radioactive waste	kg	1.88E-03	3.84E-06	9.36E-04	0.00E+00	1.20E-05	3.14E-06

ENVIRONMENTAL PRODUCT DECLARATION



DOOR + WALL PROTECTION SYSTEMS
A DIVISION OF INPRO®

IPC Corner Guards
UNCPC Code: 36950 – Builders' ware of products

According to ISO 14025

Flush Mount

(results given per meter of product)

ENVIRONMENTAL IMPACTS

CML 2001 (Nov 2010)

Parameter	Unit	Manufacturing				End-of-Life	Credits
		A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	1.92E+01	7.75E-02	2.74E-01	0.00E+00	2.68E-02	-1.28E+01
ODP	kg CFC-11 eq	9.72E-09	2.00E-12	1.23E-10	0.00E+00	3.12E-12	3.17E-08
AP	kg SO ₂ eq	9.93E-02	9.00E-05	1.27E-03	0.00E+00	3.74E-04	-7.20E-02
EP	kg PO ₄ ³⁻ eq	4.91E-03	1.16E-05	5.89E-05	0.00E+00	1.42E-04	-3.25E-03
POCP	kg C ₂ H ₄ eq	6.12E-03	2.32E-05	4.13E-05	0.00E+00	1.80E-04	-3.90E-03
ADPe	kg Sb eq	1.76E-05	9.28E-09	-3.28E-07	0.00E+00	1.00E-08	-5.53E-06
ADPf	MJ	2.58E+02	1.07E+00	3.15E+00	0.00E+00	4.28E-01	-1.56E+02

TRACI 2.1

Parameter	Unit	Manufacturing				End-of-Life	Credits
		A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	1.92E+01	7.73E-02	2.74E-01	0.00E+00	2.68E-02	-1.28E+01
ODP	kg CFC-11 eq	1.10E-08	2.12E-12	1.30E-10	0.00E+00	3.32E-12	3.46E-08
AP	kg SO ₂ eq	9.34E-02	9.15E-05	1.17E-03	0.00E+00	4.22E-04	-6.72E-02
EP	kg N eq	2.31E-03	5.82E-06	4.45E-05	0.00E+00	1.21E-04	-1.43E-03
SP	kg O ₃ eq	8.76E-01	1.50E-03	8.48E-03	0.00E+00	2.90E-03	-5.90E-01

RESOURCE USE

Parameter	Unit	Manufacturing				End-of-Life	Credits
		A1	A2	A3	A5	C4	D
PERE	MJ	7.26E+01	6.23E-03	3.21E-01	0.00E+00	1.99E-02	-5.57E+01
PERM	MJ	4.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	7.30E+01	6.23E-03	3.21E-01	0.00E+00	1.99E-02	-5.57E+01
PENRE	MJ	2.58E+02	1.07E+00	3.15E+00	0.00E+00	4.28E-01	-1.55E+02
PENRM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	2.58E+02	1.07E+00	3.15E+00	0.00E+00	4.28E-01	-1.55E+02
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	2.00E+02	1.05E-01	1.54E+00	0.00E+00	-1.02E+00	-1.52E+02

OUTPUT FLOWS AND WASTE CATEGORIES

Parameter	Unit	Manufacturing				Credits	
		A1	A2	A3	A5	C4	D
Hazardous waste	kg	4.59E-03	0.00E+00	1.03E-03	0.00E+00	6.72E-05	4.59E-03
Non-hazardous Waste	kg	2.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03
Radioactive waste	kg	2.00E-02	1.85E-06	3.63E-04	0.00E+00	5.52E-06	2.00E-02



ENVIRONMENTAL PRODUCT DECLARATION



DOOR + WALL PROTECTION SYSTEMS
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IPC Corner Guards
UNCPD Code: 36950 – Builders' ware of products

According to ISO 14025

Fire Rated Flush Mount

results given per meter of product)

ENVIRONMENTAL IMPACTS

CML 2001 (Nov 2010)

Parameter	Unit	Manufacturing				End-of-Life	Credits
		A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	2.50E+01	9.12E-02	3.35E-01	0.00E+00	3.04E-02	-1.40E+01
ODP	kg CFC-11 eq	1.32E-08	2.35E-12	1.41E-10	0.00E+00	3.53E-12	7.13E-08
AP	kg SO ₂ eq	1.17E-01	1.06E-04	1.49E-03	0.00E+00	3.89E-04	-7.49E-02
EP	kg PO ₄ ³⁻ eq	6.73E-03	1.37E-05	7.14E-05	0.00E+00	1.44E-04	-3.33E-03
POCP	kg C ₂ H ₄ eq	7.99E-03	2.73E-05	5.46E-05	0.00E+00	1.82E-04	-4.56E-03
ADPe	kg Sb eq	2.37E-04	1.09E-08	-3.19E-07	0.00E+00	1.14E-08	-1.82E-05
ADPf	MJ	3.32E+02	1.26E+00	4.08E+00	0.00E+00	4.85E-01	-1.67E+02

TRACI 2.1

Parameter	Unit	Manufacturing				End-of-Life	Credits
		A1	A2	A3	A5	C4	D
GWP	kg CO ₂ eq	2.50E+01	9.10E-02	3.35E-01	0.00E+00	3.04E-02	-1.40E+01
ODP	kg CFC-11 eq	1.47E-08	2.50E-12	1.50E-10	0.00E+00	3.76E-12	7.78E-08
AP	kg SO ₂ eq	1.12E-01	1.08E-04	1.37E-03	0.00E+00	4.38E-04	-7.02E-02
EP	kg N eq	3.57E-03	6.85E-06	5.24E-05	0.00E+00	1.23E-04	-1.47E-03
SP	kg O ₃ eq	1.15E+00	1.76E-03	1.05E-02	0.00E+00	3.13E-03	-6.19E-01

RESOURCE USE

Parameter	Unit	Manufacturing				End-of-Life	Credits
		A1	A2	A3	A5	C4	D
PERE	MJ	7.62E+01	7.33E-03	3.69E-01	0.00E+00	2.25E-02	-5.50E+01
PERM	MJ	4.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	7.66E+01	7.33E-03	3.69E-01	0.00E+00	2.25E-02	-5.50E+01
PENRE	MJ	3.32E+02	1.26E+00	4.08E+00	0.00E+00	4.85E-01	-1.67E+02
PENRM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	3.32E+02	1.26E+00	4.08E+00	0.00E+00	4.85E-01	-1.67E+02
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	2.18E+02	1.23E-01	1.80E+00	0.00E+00	-1.16E+00	-1.51E+02

OUTPUT FLOWS AND WASTE CATEGORIES

Parameter	Unit	Manufacturing				Credits	
		A1	A2	A3	A5	C4	D
Hazardous waste	kg	8.02E-03	0.00E+00	1.07E-03	0.00E+00	7.61E-05	8.02E-03
Non-hazardous Waste	kg	2.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03
Radioactive waste	kg	2.21E-02	2.18E-06	4.16E-04	0.00E+00	6.25E-06	2.21E-02



ENVIRONMENTAL PRODUCT DECLARATION



DOOR + WALL PROTECTION SYSTEMS
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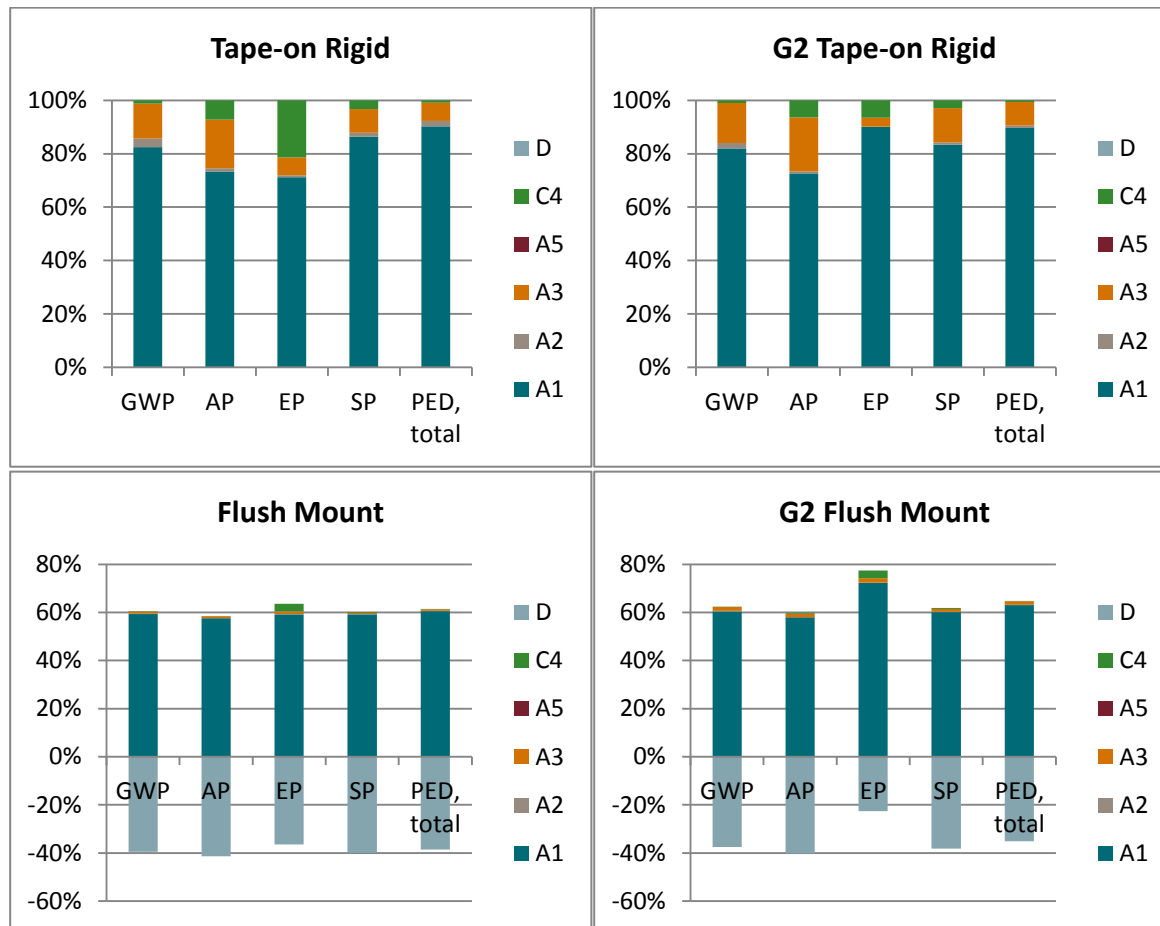
IPC Corner Guards

UNCP Code: 36950 – Builders' ware of products

According to ISO 14025

Interpretation

The following plots show the breakdown of environmental impacts (TRACI 2.1) and the total Primary Energy Demand (PED, total) over the life cycle. The raw materials supply (A1), which includes the plastic, aluminum, electricity, and other flows, is the highest source of impact across all impact categories. Manufacturing (A3) has a significant impact when the plastic represents a large proportion of the product weight due to the extrusion, injection molding, and other processing occurring at the IPC facility. When aluminum is present in the product (e.g., G2 flush mount corner guards), the onsite manufacturing processes are small compared the impacts from aluminum manufacturing, which occurs offsite and thus represented in the raw material supply module (A1). Credits for recycling potential for aluminum and steel are represented in module D and appear as negative values on the plots.



ENVIRONMENTAL PRODUCT DECLARATION

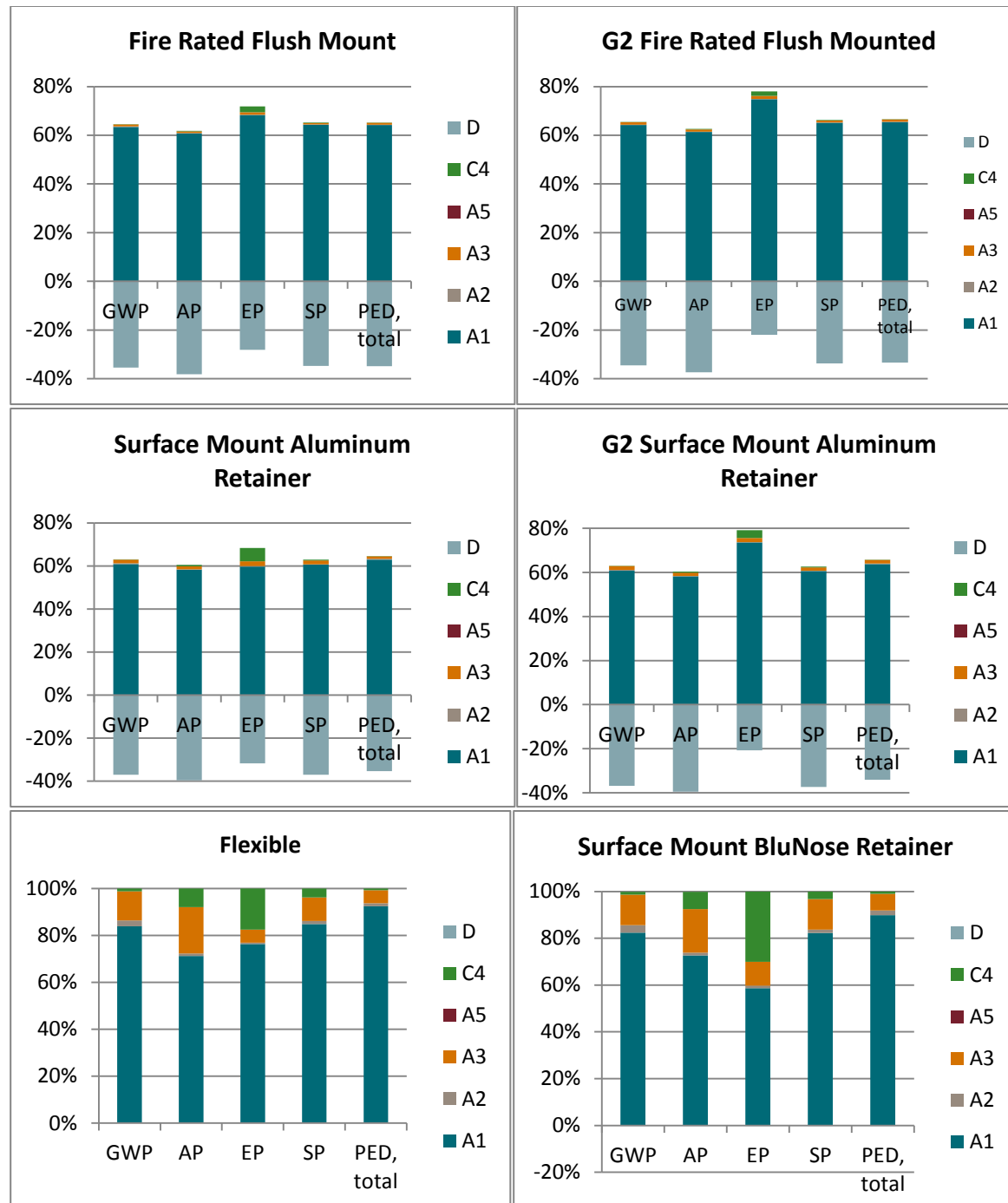


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Additional Information

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.

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