

**Legrand**

6436 City West Parkway  
 Eden Prairie, MN 55344  
 Tel: 1-866-977-3901  
 Fax: 1-877-894-6918  
 www.legrandav.com/

# Product Environmental Profile

## Chief CMS Extension Column



### COMPANY OVERVIEW

● **Sustainability built in to support our associates, customers, and the environment**

At Legrand North and Central America, we're committed to leading by example within our own operations, to developing high quality solutions for our customers' High Performance Buildings, and to transforming how people live and work – more safely, more comfortably, more efficiently.

● **Better Performance**

A core principle of designing for sustainability drives us to innovate products and systems that enable buildings to reach exceptional levels of performance, bringing about industry-leading ideas, inventions and initiatives.

● **Better Operations**

A commitment to a leadership role in operational excellence through environmental management, optimizing the way we manage energy, water and waste.

● **Better Lives**

A dedication to enhancing employee and community welfare through programs that help people enjoy healthier, more productive and more rewarding lives.

For more information on Legrand's PEPs and other sustainability initiatives, visit [legrand.us/about-us/sustainability](http://legrand.us/about-us/sustainability).



### LEGRAND'S ENVIRONMENTAL COMMITMENTS

● **Incorporate environmental management into our industrial sites**

Of all Legrand sites worldwide, over 85% are ISO 14001 certified (sites belonging to Legrand for more than five years).

● **Offer our customers environmentally friendly solutions**

Develop innovative solutions to help our customers design more energy efficient, better managed and more environmentally friendly installations.

● **Involve the environment in product design**

Reduce the environmental impact of products over their whole life cycle.

Provide our customers with all relevant information (composition, consumption, end of life, etc.).



### REFERENCE PRODUCT

<b>Function</b>	Connect an AV equipment with a mounting system during a 10-year life time.
<b>Reference Product</b>	
	Part Number CMS0305
	3-5' Adjustable Extension Column

The company reserves the right to change specifications and designs without notice. All illustrations, descriptions, dimensions and weights in the document are for guidance and cannot be held binding on the company.

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### PRODUCTS CONCERNED

The environmental data is representative of the following products: CMS003(W), CMS006(W), CMS006009(W), CMS009(W), CMS009012(W), CMS012(W), CMS012018(W), CMS018(W), CMS018024(W), CMS0203(W), CMS024(W), CMS0305(W), CMS036(W), CMS0406(W), CMS048(W), CMS0507(W), CMS060(W), CMS0608(W), CMS0709(W), CMS072(W), CMS0810(W), CMS0911(W), CMS1012(W), CMS2006(S).



### CONSTITUENT MATERIALS

This Reference Product contains no substances prohibited by the regulations applicable at the time of its introduction to the market.

<b>Total weight of Reference Product with unit packaging</b>	<b>3,258 g</b>				
Plastics as % of weight		Metals as % of weight		Others as % of weight	
Product					
Polyester	4.0%	Aluminum Alloy	82.0%		
		Steel	1.4%		
Packaging					
LLDPE	0.3%			Cardboard	11.7%
				Paper	0.7%
<b>Total plastics</b>	<b>4.3%</b>	<b>Total metals</b>	<b>83.4%</b>	<b>Total others</b>	<b>12.4%</b>



### MANUFACTURING

This Reference Product come from a site that observes the applicable legislation for industrial sites.



### DISTRIBUTION

Products are distributed from logistics centers located to optimize transport efficiency using EPA SmartWay® certified carriers to reduce greenhouse gases emissions. Information on the distance of distribution is not available so the PCR hypothesis for “Intracontinental transport”, 2175 miles (3500 km) by heavy truck, was used. This represents transportation of the Reference Product from our warehouse to the local point of distribution in the North American market.

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### INSTALLATION

It is assumed four hole-drillings on the ceiling wall is needed. The model is based on driving a 1.5-HP (1.119 kW) power drill for one minute.



### USE

**Servicing and maintenance:**

Under normal conditions of use, this type of product requires no servicing or maintenance.

**Consumable:**

No consumables are necessary to use this type of product.



### END OF LIFE

**• Hazardous waste\* contained in the product:** no hazardous waste  
 (\*) Hazardous waste as defined by European Commission decision 2000/532/EC.

**• Recycling rate:**

Calculated using the disposal pathway described in US EPA's Advancing Sustainable Materials Management: 2018 Facts and Figures Report, the recyclability rate of the Reference Product without packaging is estimated as 37.2%. This value is based on data collected from a technological channel using industrial procedures. It does not pre-validate the effective use of this product for end-of-life electrical and electronic products.

Separated into:	(% mass of Reference Product excluding packaging)
- plastic materials:	0.3%
- metal materials:	28.4%

Recycling rate of packaging (all types of materials): 8.4%



### ENVIRONMENTAL IMPACTS

The evaluation of environmental impacts examines the stages of the Reference Product life cycle: manufacturing, distribution, installation, use, and end of life. It is representative of products marketed and used in North America.

The following modelling elements were taken into account:

<b>Manufacturing</b>	Packaging taken into account. As required by the PEP ecopassport program, all transport for the manufacturing of the Reference Product, including materials and components, has been taken into account. The waste generated during manufacturing phase has been taken into account.
<b>Distribution</b>	Transport between the last distribution center and an average delivery to the sales area. The default scenario modelled maximizes the environmental impact using the PCR hypothesis for "local transport": 2175 miles (3500 km) by heavy truck.
<b>Installation</b>	The end of life of the packaging (0.41 kg) is taken into account at this phase. Transport of packaging to end of life treatment is taken into account at this phase.
<b>Use</b>	<ul style="list-style-type: none"> <li>• Under normal conditions of use, this type of product requires no servicing or maintenance.</li> <li>• No consumables are necessary to use this type of product.</li> <li>• Product category: Mounting accessory</li> </ul>
<b>End of life</b>	The end of life scenario models the environmental impact using PCR hypothesis for "intracontinental transport": 621 miles [1000 km].
<b>Software used</b>	EIME V5.9.1 and its database "CODDE-2020-12" and the indicators defined in the PCR ed 3 in alignment with the EN15804 standard

# Product Environmental Profile

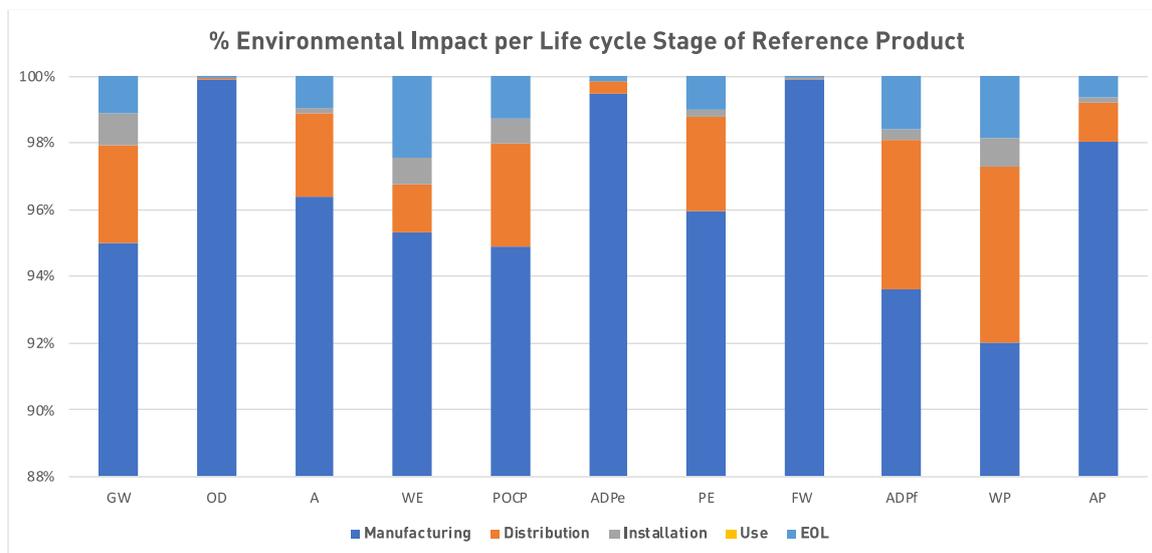
## Chief CMS Extension Column



### ENVIRONMENTAL IMPACTS (continued)

	Total for Life cycle		Raw material and manufacturing		Distribution		Installation		Use		End of life	
	Value	Unit	Value	%	Value	%	Value	%	Value	%	Value	%
<b>Global warming (GW)</b>	1.95E+01	kg CO <sub>2</sub> eq.	1.85E+01	95%	5.67E-01	3%	1.87E-01	1%	0.00E+00	0%	2.21E-01	1%
<b>Ozone depletion (OD)</b>	3.34E-06	kg CFC-11 eq.	3.34E-06	100%	1.15E-09	0%	6.96E-10	0%	0.00E+00	0%	1.28E-09	0%
<b>Acidification of soil and water (A)</b>	1.03E-01	kg SO <sub>2</sub> eq.	9.93E-02	96%	2.55E-03	2%	1.53E-04	0%	0.00E+00	0%	9.99E-04	1%
<b>Water eutrophication (WE)</b>	4.04E-02	kg PO <sub>4</sub> <sup>3-</sup> eq.	3.85E-02	95%	5.86E-04	1%	3.19E-04	1%	0.00E+00	0%	9.83E-04	2%
<b>Photochemical ozone creation (POCP)</b>	5.87E-03	kg C <sub>2</sub> H <sub>4</sub> eq.	5.57E-03	95%	1.81E-04	3%	4.55E-05	1%	0.00E+00	0%	7.41E-05	1%
<b>Depletion of abiotic resources - elements (ADPe)</b>	6.49E-06	kg Sb eq.	6.46E-06	99%	2.27E-08	0%	1.31E-09	0%	0.00E+00	0%	9.42E-09	0%
<b>Total use of primary energy (PE)</b>	2.86E+02	MJ	2.74E+02	96%	8.02E+00	3%	5.86E-01	0%	0.00E+00	0%	2.90E+00	1%
<b>Net use of fresh water (FW)</b>	1.66E-01	m <sup>3</sup>	1.66E-01	100%	5.08E-05	0%	9.19E-05	0%	0.00E+00	0%	5.01E-05	0%
<b>Depletion of abiotic resources – fossil fuels (ADPf)</b>	1.77E+02	MJ	1.66E+02	94%	7.97E+00	4%	5.56E-01	0%	0.00E+00	0%	2.84E+00	2%
<b>Water pollution (WP)</b>	1.77E+03	m <sup>3</sup>	1.63E+03	92%	9.33E+01	5%	1.48E+01	1%	0.00E+00	0%	3.32E+01	2%
<b>Air pollution (AP)</b>	1.98E+03	m <sup>3</sup>	1.94E+03	98%	2.33E+01	1%	3.04E+00	0%	0.00E+00	0%	1.29E+01	1%

The values of the 27 impacts defined in the PCR-ed3-EN-2015 04 02 are available in the digital database of pep-ecopassport.org website. The environmental impacts of the Reference Product are representative of the products covered by the PEP, which therefore constitute a homogeneous environmental family.



The environmental impact of the Reference Product occurs predominantly during the raw material and manufacturing phase.

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### ENVIRONMENTAL IMPACTS (continued)

For products other than the Reference Product, the environmental impacts were calculated and the impact factors relative to the reference product are presented below. To determine the impacts for the various products in the family, the impacts of the reference product should be multiplied by the corresponding factors for the applicable products in the table below.

Part Number	Manufacturing	Distribution	Installation	End of Life
CMS003 CMS003W	GW, PE, FW, ADPf & AP: 0.1 All else: <0.1	0.1	GW, A, ADPe, WP & POCP: 0.3 WE: 0.2 All else: 0.5	<0.1
CMS006 CMS006W	ADPe: <0.1 FW: 0.2 All else: 0.1	0.1	OD, FW & AP: 0.6 WE: 0.3 PE & ADPf: 0.5 All else: 0.4	0.1
CMS006009	ADPe: 0.8 All else: 0.2	0.2	OD, FW & AP: 0.6 WE: 0.3 PE & ADPf: 0.5 All else: 0.4	0.2
CMS006009W	ADPe: 0.8 FW: 0.3 All else: 0.2	0.2	OD, PE & ADPf: 0.6 WE, POCP & WP: 0.4 FW & AP: 0.7 All else: 0.5	0.2
CMS009 CMS009W	ADPe: <0.1 FW: 0.2 All else: 0.1	0.1	OD & AP: 0.6 WE, POCP & WP: 0.3 PE, FW, ADPf: 0.5 All else: 0.4	0.1
CMS009012 CMS009012W	ADPe: 0.8 FW: 0.4 All else: 0.3	0.3	GW, A, ADPe & WP: 0.6 WE: 0.5 FW: 0.8 All else: 0.7	0.3
CMS012 CMS012W	ADPe: <0.1 FW: 0.3 All else: 0.2	0.2	OD, FW & AP: 0.7 ADPe, PE & ADPf: 0.6 All else: 0.5	0.2
CMS012018 CMS012018W	ADPe: 0.8 All else: 0.4	0.4	OD & AP: 0.8 ADPe, PE & ADPf: 0.7 FW: 0.9 All else: 0.6	0.4
CMS018 CMS018W	GW, FW & ADPf: 0.3 ADPe: 0.1 All else: 0.2	0.3	OD, PE, FW, & AP: 0.7 ADPe & ADPf: 0.6 All else: 0.5	0.2
CMS018024	OD, A, WE & WP: 0.4 ADPe: 0.9 All else: 0.5	0.5	OD, PE, FW & AP: 0.7 ADPe & ADPf: 0.6 All else: 0.5	0.4
CMS018024W	OD, A, WE & WP: 0.4 ADPe: 0.8 All else: 0.5	0.5	OD, PE & ADPf: 0.7 FW & AP: 0.8 All else: 0.6	WE, PE, FW, WP & AP: 0.4 All else: 0.5
CMS0203 CMS0203W	ADPe: 0.9 FW: 0.7 All else: 0.6	0.7	GW, A, WE, POCP & WP: 0.9 All else: 1	0.6
CMS024 CMS024W	ADPe: 0.1 FW: 0.4 All else: 0.3	0.3	GW, A & ADPe: 0.6 WE, POCP & WP: 0.5 All else: 0.7	0.3
CMS0305W	1	1	1	1
CMS036 CMS036W	ADPe: 0.1 FW: 0.7 All else: 0.5	GW, POCP & ADPe: 0.6 All else: 0.5	OD, ADPe, FW & AP: 1 All else: 1.1	0.5
CMS0406 CMS0406W	ADPe: 1 FW: 1.1 All else: 1.2	1.1	1	1.2
CMS048 CMS048W	ADPe: 0.2 FW: 0.8 WP: 0.7 All else: 0.6	0.7	GW, A, WE, POCP, & WP: 1.1 All else: 1	0.6

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### ENVIRONMENTAL IMPACTS (continued)

Part Number	Manufacturing	Distribution	Installation	End of Life
CMS0507 CMS0507W	ADPe: .1.1 FW: 1.6 All else: 1.3	1.4	OD & AP: 1.6 WE: 2 ADPe: 1.8 PE & ADPf: 1.7 FW: 1.5 All else: 1.9	1.3
CMS060 CMS060W	ADPe: 0.2 FW: 0.9 All else: 0.8	0.8	1.1	0.8
CMS0608 CMS0608W	ADPe: 1.1 FW: 1.7 All else: 1.5	1.5	OD, PE & ADPf: 1.7 WE: 2 FW: 1.8 AP: 1.6 All else: 1.9	1.5
CMS0709 CMS0709W	ADPe: 1.2 All else: 1.6	1.6	OD, PE, FW & ADPf: 1.4 AP: 1.3 All else: 1.5	1.6
CMS072 CMS072W	POCP, PE & AP: 0.9 ADPe: 0.3 FW: 1.1 All else: 1	1	OD, PE, FW, ADPf & AP: 1.2 All else: 1.3	OD & FW: 1 All else: 0.9
CMS0810 CMS0810W	ADPe: 1.2 FW: 1.9 All else: 1.8	1.8	OD, PE & ADPf: 1.6 WE, POCP & WP: 1.9 FW & AP: 1.5 All else: 1.8	1.8
CMS0911 CMS0911W	WE, FW & WP: 2 ADPe: 1.3 All else: 1.9	1.9	OD, PE & ADPf: 1.6 WE, POCP & WP: 1.9 FW & AP: 1.5 All else: 1.8	OD & FW: 2 All else: 1.9
CMS1012	ADPe: 1.3 All else: 2.1	2.1	GW & A: 2 OD & AP: 1.7 ADPe: 1.9 PE & ADPf: 1.8 FW: 1.6 All else: 2.1	2.1
CMS1012W	ADPe: 1.3 FW: 2.2 All else: 2.1	2.1	GW & A: 2.2 WE: 2.4 POCP & WP: 2.3 ADPe: 2.1 PE: 1.9 ADPf: 2 All else: 2.1	2.1
CMSZ006 CMSZ006S	ADPe: <0.1 FW: 0.2 All else: 0.1	0.1	GW, A & ADPe: 0.5 WE, POCP & WP: 0.4 All else: 0.6	0.1

Registration number: LGRP-01439-V01.01-EN	Drafting rules: "PCR-ed3-EN-2015 04"
Verifier's accreditation number: VH43	Information and reference documents: <a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
Date of issue: 10-2021	Validity period: 5 years

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### ENVIRONMENTAL IMPACTS (continued)

Independent verification of the declaration and data, in compliance with ISO 14025:2010 Internal <input type="checkbox"/> External <input checked="" type="checkbox"/>	
The PCR Review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN).	
The elements of the present PEP cannot be compared with elements from another program.	
Document in compliance with ISO 14025:2010: "Environmental labels and declarations - Type III environmental declarations"	
In compliance with ISO 14040:2006: "Environmental management – LCA – Principles and framework" In compliance with ISO 14044:2006: "Environmental management – LCA – Requirements and guidelines" In alignment with EN 15804:2012+A1:2013: "Sustainability of construction works - EPD's - Core rules for the product category of construction products"	