

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 Fusion ™ Ceiling Mount



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 comfort- ably, 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.



■ 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.

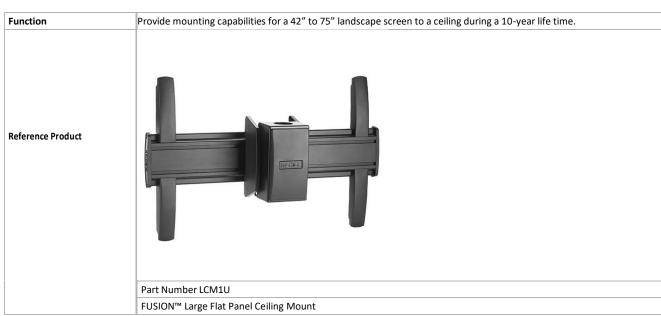
• Involve the environment in product design

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



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:

LCB1U	LCB1U LCM1U		LCM3X2U	MCM1U
LCB1UP	LCM1U-G	LCM2X2U	LCM3X3U	OLCB1U
LCB2X1U	LCM1UP	LCM3U	LCM4U	OLCM1U
LCB3X1U	LCM1X2U	LCM3X1U	LCM5X1U	XCB1U
LCB3X1UP	LCM2X1U	LCM3X1UP	MCB1U	XCM1U



CONSTITUENT MATERIALS

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

Total weight of Reference Product	
with unit packaging	8,470 g

Plastics as % of weight		Metals as % of weight		Others as % of weight		
	Product	Product				
Polypropylene 1.4%		Steel 53.7% (Glass Fiber	0.1%	
ABS	1.2%	Aluminum	21.9%			
Polyoxymethylene 0.7% Nylon 66 0.2%						
		Packaging				
LLDPE 1.0% Total plastics 4.5%				Cardboard	19.3%	
				Paper	0.5%	
		Total metals	75.6%	Total others	19.9%	



■ 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 is estimated as 39.7%. 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 with packaging)

plastic materials: 0.3%
metal materials: 25.8%
other materials: <0.1%

Recycling rate of packaging (% mass of Reference Product with packaging)

- all types of materials: 13.6%



■ 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:

Manufacturing	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.						
Distribution	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.						
Installation	The end of life of the packaging (1.77 kg) is taken into account at this phase. Transport of packaging to end of life treatment is taken into account at this phase.						
Use	 Under normal conditions of use, this type of product requires no servicing or maintenance. No consumables are necessary to use this type of product. Product category: Screen ceiling mount 						
End of life	The end of life scenario models the environmental impact using PCR hypothesis for "intracontinental transport": 621 miles [1000 km].						
Software used	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						



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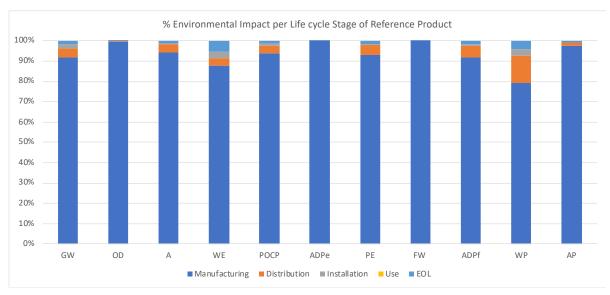
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ENVIRONMENTAL IMPACTS (continued)

			Raw mate	rial								
	Total for Li	ife cycle	manufactu	ıring	Distributio	n	Installatio	n	Use		End of life	
Global warming (GW)	3.39E+01	kg CO₂ eq.	3.11E+01	92%	1.48E+00	4%	7.73E-01	2%	0.00E+00	0%	5.21E-01	2%
Ozone depletion (OD)	2.40E-06	kg CFC-11 eq.	2.39E-06	100%	2.99E-09	0%	2.30E-09	0%	0.00E+00	0%	3.01E-09	1%
Acidification of soil and water (A)	1.73E-01	kg SO₂ eq.	1.63E-01	94%	6.63E-03	4%	6.25E-04	0%	0.00E+00	0%	2.35E-03	4%
Water eutrophication (WE)	4.22E-02	kg PO ³⁻ eq.	3.70E-02	88%	1.52E-03	4%	1.35E-03	3%	0.00E+00	0%	2.31E-03	19%
Photochemical ozone creation (POCP)	1.37E-02	kg C₂H₄ eq.	1.29E-02	94%	4.71E-04	3%	1.86E-04	1%	0.00E+00	0%	1.74E-04	2%
Depletion of abiotic resources - elements (ADPe)	3.60E-05	kg Sb eq.	3.59E-05	100%	5.91E-08	0%	5.41E-09	0%	0.00E+00	0%	2.22E-08	0%
Total use of primary energy (PE)	4.28E+02	МЈ	3.98E+02	93%	2.09E+01	5%	1.97E+00	0%	0.00E+00	0%	6.82E+00	2%
Net use of fresh water (FW)	4.43E-01	m³	4.42E-01	100%	1.32E-04	0%	3.66E-04	0%	0.00E+00	0%	1.18E-04	0%
Depletion of abiotic resources – fossil fuels (ADPf)	3.53E+02	МЈ	3.24E+02	92%	2.07E+01	6%	1.89E+00	1%	0.00E+00	0%	6.68E+00	2%
Water pollution (WP)	1.84E+03	m³	1.46E+03	79%	2.43E+02	13%	6.04E+01	3%	0.00E+00	0%	7.80E+01	3%
Air pollution (AP)	4.13E+03	m³	4.03E+03	98%	6.05E+01	1%	9.85E+00	0%	0.00E+00	0%	3.03E+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 Manufacturin		acturing	Distribution	Installation		Use	End of Life	
	POCP, ADPf & AP: 1.8		OD E	OD DE AD	PE, ADPf & AP: 2.7			
LCB1U	ADPe: 2.1		2				1.8	
LCBIU	FW	FW: 2.5		FW: 2.8 All else: .29		-	1.0	
	All else: 1.9			All els	Se23			
	OD: 1.6	ADPe: 2.8					OD: 2.5	
	A & WP: 1.4	PE: 1.9		OD & /	AP: 2.7		FW: 2.6	
LCB1UP	WE: 1.5	FW: 2.7	2.9	PE & A	DPf: 2.8	-	AP: 2.7	
	POCP: 2.1	AP: 2.5		All els	se: 2.9		All else: 2.8	
		se: 2.2						
	GW: 4.3	ADPf: 4			AP: 5.3		OD: 3.7	
	WE, PE & AP:	POCP & WP:			: 5.8		ADPe: 4.3	
LCB2X1U	4.2	3.7	4.8		DPf: 5.4	-	FW: 3.8	
	A: 3.2	All else: 5.3			: 5.6		AP: 4.2	
	OD: 7.6	ADDf. E.7			se: 5.7		All else: 4.5	
	OD: 7.6 A: 4.6	ADPf: 5.7 WP: 5.5			& ADPf: 8		OD: 5.2	
_CB3X1U	POCP: 5.2	AP: 5.9	7	i	CP: 8.5 : 8.4		ADPe: 6.2 FW: 5.4	
CB3X10	ADPe: 6.3	AF. 3.3	,		7.9	-	AP: 6	
	FW: 7.9	All else: 6.2			se: 8.6		All else: 6.4	
	GW: 5.7	PE: 5.3		7 (11 010	JC. 0.0			
	OD: 4.9	FW: 7.7		OD, PE 8	& ADPf: 8		GW: 6.5 OD: 5.4	
	A: 3.7	ADPf: 5.4	WE: 7.2	A & POCP: 8.5 FW: 8.4		-	ADPe: 6.4	
LCB3X1UP	WE: 4.3	WP: 4	All else: 7.1				FW: 5.6	
	POCP: 5		7111 CISC. 7.1		7.9		AP: 6.2	
	ADPe: 6	AP: 5.9		All else: 8.6			All else: 6.6	
		OD, ADPe & FW: 1						
	A: 0.7 WE, POCP & WP: 0.8							
LCM1U-G			1	1		-	1	
	All else: 0.9							
	OD & WE: 0.8	PE: 1		1				
LCM1UP	POCP & FW:	ADPe & AP: 1.3	1.4			-	OD & FW: 1.4	
LCIVITOF	1.1	ADFE & AF. 1.3	1.4				All else: 1.5	
	A & WP: 0.7	All else: 1.2						
	OD: 4	WE: 3.1		OD, PE, FW, ADPf & AP: 2.4 All else: 2.5			OD & FW: 2.4	
LCM1X2U	A & ADPe: 2.1	POCP: 2.2	2.6			-	WE, POCP, ADPf & WP: 2.6	
-02/12/0	ADPf & AP: 2.4	PE & WP: 2.7	2.0				All else: 2.5	
		All else: 2.6						
		DPe: 2.6	GW & AP: 2.4		AP: 2.3		OD & FW: 2	
CM2X1U		A, WE, POCP & AP: 2.5		PE, FW & ADPf: 2.4		-	ADPe & AP: 2.3	
		se: 2.4		All els	All else: 2.5		All else: 2.4	
	GW: 2.1 A & WP: 1.4	ADPe: 2.3 FW: 2.4		00.0	AD: 2.2		OD: 2	
CM2X1UP	WE: 1.5	ADPf: 2	2.5		AP: 2.3 ADPf: 2.4	_	ADPe: 2.4 FW: 2.1	
LCIVIZATOF	POCP: 1.9	AP: 2.2	2.5		se: 2.5	-	AP: 2.3	
		se: 1.8		All Cis	JC. 2.5		All else: 2.5	
	GW: 7	PE: 7.1					OD: 6.1	
	OD: 9.6	FW: 4.5					ADPe: 7.2	
	A: 5.6	ADPf: 6.6		OD. PE. FW. A	ADPf & AP: 2.4		FW: 6.3	
LCM2X2U	WE: 7.2	WP: 6.4	6.5		se: 2.5	-	ADPf & WP: 7.5	
	POCP: 6				-		AP: 7	
	ADPe: 8.4	AP: 6.8					All else: 7.4	
	GW: 4.6	PE: 3.9		GW: 8.1	PE &ADPf: 7.6		GW, A & ADPe: 5.4	
	OD: 4	FW: 7.2		OD: 7.3	FW: 6.8		OD: 4.9	
LCM3U	A: 3	ADPf: 4.4	6.1	A: 8 AP: 7.2		-	FW: 5	
	WE: 3.1	WP: 3.2		ADPe: 7.8	All else: 8.4		AP: 5.3	



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Part Number	Part Number Manufacturing		Distribution Installation			Use	End of Life		
	POCP: 4.2						All else: 5.5		
	ADPe: 7.1	AP: 4.9							
	OD: 3.7	FW: 3					OD: 2.8	FW: 2.9	
LCM3X1U	WE: 3.6	ADPf: 3.4	3.3	1 ' '	Pf & AP: 2.6	-	ADPe: 3.3	AP: 3.2	
	ADPe: 3.3	All else: 3.5		All els	se: 2.7		All else	e: 3.4	
	OD: 2.4	POCP: 2.6					OD:		
	A: 1.9	PE: 2.7					ADPe		
LCM3X1UP	WE: 2.1	ADPf: 2.8	3.4	1 ' '	Pf & AP: 2.6	-	FW		
		WP: 2		All els	se: 2.7		AP:		
	ADPe & AP: 3.1	All else: 2.9					All else		
	GW: 8.6	ADPe:8.9		OD & AP: 5.5	OD & AP: 5.5 AP: 5.5		GW & PC		
	OD: 12.1	PE: 8.7			PE & ADPf· 5.4		OD: 7.2	FW: 7.4	
LCM3X2U	A: 6.9	FW: 7.1	GW: 8.2	POCP & WP: 5.7	FW: 6.1	_	ADPe: 8.5	AP: 8.3	
LCIVISAZO	WE: 9.2	ADPf: 8	All else: 8.3		1 44. 0.1		ADI C. 0.5	Ai . 0.5	
	POCP: 7.3	All else: 8.1		ADPe: 5.9	All else: 5.8		All else	e: 8.8	
				00.05.0	2 4 5 5 5		CM 8 DO	CD 43.3	
	GW: 12.1	PE: 12.4			& AP: 5.5		GW & PO		
	OD: 17.8	FW: 8.6	CW: 11	i	WP: 5.7		OD: 1		
LCM3X3U	A: 9.9	ADPf: 11.3	GW: 11		e: 5.9	-	ADPe:		
	WE: 13.6	WP: 11.7	All else: 11.1		: 6.1 f: 5.4		FW: 10.4 AP: 11.6		
	POCP: 10.2	AP: 11.4			se: 5.8		All else		
	ADPe: 10.5	514. 7.0	7.6	-					
	GW: 6.1	FW: 7.8		GW &A: 8.1	FW: 6.8	-	GW: 7.3	FW: 6.7	
L	OD: 5	ADPf: 5.8		OD: 7.3	ADPf: 7.7		OD: 6.6	AP: 7.1	
LCM4U	POCP: 5.6	WP: 4.1		ADPe: 7.8	AP: 7.2				
	ADPe: 8.8	AP: 6.5		PE: 7.6	All else: 8.4		ADPe: 7.2	All else: 7.4	
	PE: 5.1	All else: 4							
	GW: 5.6	ADPe: 7.8	OD, WE & POCP: 5.8 All else: 5.7	GW, A & ADPe: 3.3 WE, POCP & WP: 3.2 FW: 3.5 All else: 3.1			GW: 6.2	FW: 5.3	
	OD: 6.7	PE: 5.5				-	OD: 5.1	AP: 5.9	
LCM5X1U	POCP: 5	WP: 4.7							
	WE & ADPf:5.4	AP 5.7					ADPe: 6	All else: 6.3	
	WE & ADI 1.3.4	All else: 4.2							
MCB1U	OD & WP: 1.5	ADPe: 2.1	1.7	FW: 1.8 All else: 1.7		_	1.	7	
IVICBIO	A & WE: 1.6	All else: 1.7	1.7				1.7		
MCM1U	OD & WE: 0.8	ADPe: 1	0.9	FW	V: 1	_	OD, FW & AP: 1		
IVICIVITO	All els	e: 0.9	0.9	All els	se: 0.9	-	All else: 0.9		
	GW: 2.7	FW: 4.2		OD EW	OD, FW & AP: 4.3		OD: 2.3		
	OD: 3.4	ADPf: 2.5		,			ADPe &	AP: 2.7	
OLCB1U	A: 1.8	WP: 2.1	3.3	WE, POCP & WP: 4.7 PE & ADPf: 4.4		-	FW: 2.4		
	ADPe: 35.7	AP: 2.9					ADPf & WP: 2.9		
	All else: 2.2			All else: 4.6			All else: 2.8		
	OD & PE: 1.8	ADPe: 23.1					OD: 2.7	FW: 2.8	
	A: 1.5	FW: 2.1		05 5	0. AD. 1.5		ADPe: 3.3	AP: 3.2	
OLCM1U	WE: 1.3	WP: 1.2	3.1		& AP: 1.5	-			
	POCP: 2.5	AP: 3.2		All els	se: 1.6		ADPf & WP: 3.5	All else: 3.4	
	All else: 2.6			İ	į		İ		
	GW: 2.5	ADPe: 3.8					OD:	2.3	
	OD: 2.7	FW: 2.8		OD. PE	&AP: 2.7	-	OD: 2.3 ADPe: 2.8		
XCB1U	A: 1.8	WP: 2	2.9		DPf: 2.8		FW: 2.4		
	We: 2.1	AP: 2.6			se: 2.9		AP: 2.7		
	POCP: 2.3	All else: 2.4		All else. 2.3			All else: 2.9		
	OD WE & WD.						OD:		
	1.3	POCP & AP: 1.6							
XCM1U	PE: 1.4	FW: 1.1	1.5	1		-	ADPe & AP: 1.5 FW: 1.4		
	1 2. 2.7								

Registration number: LGRP-01445-V01.01-EN	Drafting rules: "PCR-ed3-EN-2015 04"
Verifier's accreditation number: VH43	Information and reference documents: www.pep-ecopassport.org



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ENVIRONMENTAL IMPACTS (continued)

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Date of issue: 10-2021	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO External ☑) 14025:2010Internal
The PCR Review was conducted by a panel of experts chaired by Philippe Os	sset (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"	
In compliance with ISO 14040:2006: "Environmental management – LCA – Fin compliance with ISO 14044:2006: "Environmental management – LCA – Fin alignment with EN 15804:2012+A1:2013: "Sustainability of construction category of construction products"	Requirements and guidelines"