

# Product Environmental Profile

## Valena Next™ Push-button 6A - 2 modules - White



### 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 the Group 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 and provide informations in compliance with ISO 14025**

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>	Allow a 250V low voltage circuit with a load not exceeding 6 A according to standards CEI 60669-1 (household or similar purposes), during 20 years at 30% of rated load, during 30% of the time: - to close it pressing the operating button, - to open it releasing it.	
<b>Reference Product</b>		
	Cat.No 7 412 50	Cat.No 7 410 01
	Push-button 6A	Plate 1G - White
	Push-button 6A - 2 modules - White	

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.



### PRODUCTS CONCERNED

The environmental data is representative of the following products:

Push-button - 6A	Plate - 1G
<ul style="list-style-type: none"> <li>• 7 412 50 - 2 modules - White</li> <li>• 7 412 57 - 1 module - White</li> <li>• 7 413 50 - 2 modules - Alu</li> <li>• 7 413 57 - 1 module - Alu</li> <li>• 7 414 50 - 2 modules - Dark</li> <li>• 7 414 57 - 1 module - Dark</li> </ul>	<ul style="list-style-type: none"> <li>• 7 410 01 - White</li> <li>• 7 410 31 - Alu</li> <li>• 7 410 51 - Dark</li> </ul>

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### ■ CONSTITUENT MATERIALS

This Reference Product contains no substances prohibited by the regulations applicable at the time of its introduction to the market. It respects the restrictions on use of hazardous substances as defined in the RoHS directive 2011/65/EU amended by delegated directive (EU) 2015/863, and its amendment 2017/2102/EU.

<b>Total weight of Reference Product</b>	<b>117 g</b> (all packaging included)				
Plastics as % of weight		Metals as % of weight		Other as % of weight	
PC	14.7 %	Steel	16.4 %		
ABS	12.4 %	Copper alloys	4.0 %		
PA	5.4 %				
		Silver alloy	< 0.1 %		
Packaging as % of weight					
PET	1.8 %			Paper	23.3 %
PP	0.4 %			Wood	21.4 %
PE	0.1 %				
<b>Total plastics</b>	<b>34.9 %</b>	<b>Total metals</b>	<b>20.4 %</b>	<b>Total others</b>	<b>44.7 %</b>

Estimate recycled material content: 26 % by mass.



### ■ MANUFACTURE

The Reference Product comes from sites that, in their majority, have received ISO14001 certification.



### ■ DISTRIBUTION

Products are distributed from logistics centres located with a view to optimize transport efficiency. The Reference Product is therefore transported over an average distance of 780 km by road from our warehouse to the local point of distribution into the market Europe.

Packaging is compliant with European directive 2004/12/EU concerning packaging and packaging waste. At their end of life, its recyclability rate is 93 % (in % of packaging weight).



### ■ INSTALLATION

For the installation of the product, only standard tools are needed.



### ■ USE

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

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### END OF LIFE

The product end-of-life factors are taken into account during the design phase. Dismantling and sorting of components or materials is made as easy as possible with a view to recycling or failing that, another form of reuse.

This product falls within the scope of the WEEE directive (2012/19/EU). Therefore it must be processed through local WEEE recycling/recovery channels.

• **Extended producer responsibility:**

The sale of this product is subject to a contribution to eco-organisations in each country responsible for managing end-of-life products in the field of application of the European Waste Electronic and Electrical Equipment Directive.

• **Recyclability rate:**

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 95 %. This value is based on data collected from a technological channel operating on an industrial basis. It does not pre-validate the effective use of this channel for the end of life of this product.

Separated into:

- plastic materials (excluding packaging) : 31 %
- metal material (excluding packaging) : 20 %
- packaging (all types of materials) : 44 %



### 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 from products marketed and used in Europe, in compliance with the local current standards.

For each phase, the following modelling elements were taken in account:

<b>Manufacture</b>	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.
<b>Distribution</b>	Transport between the last Group distribution centre and an average delivery point in the sales area.
<b>Installation</b>	The end of life of the packaging.
<b>Use</b>	<ul style="list-style-type: none"> <li>• Product category : PSR0005 § 3.13 - Other equipments - Passive product - non-continuous operation.</li> <li>• Use scenario : non-continuous operation for 20 years at 30% of rated load, during 30% of the time. This modelling duration does not constitute a minimum durability requirement.</li> <li>• Energy model: Electricity Mix; Europe 27 - 2008.</li> </ul>
<b>End of Life</b>	The default end of life scenario maximizing the environmental impacts.
<b>Software and database used</b>	EIME & database CODDE-2018-11

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### SELECTION OF ENVIRONMENTAL IMPACTS

	Total for Life cycle		Raw material and manufacture		Distribution		Installation		Use		End of life	
	Value	Unit	Value	%	Value	%	Value	%	Value	%	Value	%
Global warming	1.85E+00	kgCO <sub>2</sub> eq.	4.31E-01	23%	4.54E-03	< 1%	3.27E-03	< 1%	1.40E+00	76%	6.10E-03	< 1%
Ozone depletion	1.10E-07	kgCFC-11 eq.	1.86E-08	17%	9.20E-12	< 1%	2.26E-11	< 1%	9.13E-08	83%	1.26E-10	< 1%
Acidification of soils and water	6.86E-03	kgSO <sub>2</sub> eq.	9.58E-04	14%	2.04E-05	< 1%	1.52E-05	< 1%	5.85E-03	85%	2.39E-05	< 1%
Water eutrophication	1.43E-03	kg(PO <sub>4</sub> ) <sup>3-</sup> eq.	1.03E-03	72%	4.69E-06	< 1%	1.17E-05	< 1%	3.53E-04	25%	3.07E-05	2%
Photochemical ozone formation	4.25E-04	kgC <sub>2</sub> H <sub>4</sub> eq.	9.91E-05	23%	1.45E-06	< 1%	1.08E-06	< 1%	3.21E-04	76%	1.84E-06	< 1%
Depletion of abiotic resources - elements	2.67E-05	kgSb eq.	2.66E-05	100%	1.82E-10	< 1%	1.45E-10	< 1%	1.22E-07	< 1%	3.58E-10	< 1%
Total use of primary energy	3.91E+01	MJ	1.09E+01	28%	6.42E-02	< 1%	4.45E-02	< 1%	2.80E+01	72%	6.90E-02	< 1%
Net use of fresh water	5.11E+00	m <sup>3</sup>	3.22E-02	< 1%	4.06E-07	< 1%	9.33E-07	< 1%	5.08E+00	99%	4.41E-06	< 1%
Depletion of abiotic resources - fossil fuels	2.10E+01	MJ	4.89E+00	23%	6.38E-02	< 1%	4.33E-02	< 1%	1.59E+01	76%	6.32E-02	< 1%
Water pollution	1.79E+02	m <sup>3</sup>	1.19E+02	67%	7.47E-01	< 1%	5.04E-01	< 1%	5.78E+01	32%	7.35E-01	< 1%
Air pollution	1.26E+02	m <sup>3</sup>	6.44E+01	51%	1.86E-01	< 1%	3.05E-01	< 1%	6.03E+01	48%	6.28E-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.

For products of different colors, take the same value of each environmental impact at each stage of the lifecycle as the Reference Product. For the double push-button, the environmental impacts of each phase of the lifecycle are obtained by adopting the following coefficients on those of the Reference Product.

Impact indicator	Sum	Manufacturing	Distribution	Installation	Use	End of life
Global warming	1.8	1.2	1.1	1.0	2.0	1.2
Ozone depletion		1.4				
Acidification of soils and water		1.2				
Water eutrophication		1.4				
Photochemical ozone formation		1.1				
Depletion of abiotic resources - elements		2.0				
Total use of primary energy		1.1				
Net use of fresh water		1.1				
Depletion of abiotic resources - fossil fuels		1.2				
Water pollution		1.2				
Air pollution		1.5				

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Registration N°: LGRP-01231-V01-01-EN	Drafting rules: «PEP-PCR-ed3-EN-2015 04 02» Supplemented by «PSR-0005-ed2-EN-2016 03 29»
Verifier accreditation N°: VH23	Information and reference documents: <a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
Date of issue: 11-2020	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010 Internal <input checked="" type="checkbox"/> External <input type="checkbox"/>	
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)	
PEP are compliant with XP C08-100-1 : 2016 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»	
Environmental data in alignment with EN 15804: 2012 + A1 : 2013	

