

Product Environmental Profile

**SWIFTS Cable ladder system - G and D finishes
(hot dip galvanised after manufacture & deep galvanised)**



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

Function	Support the wiring along 1 meter for a reference service life of 20 years. The cable ladder system SWIFTS Topaz 300 G, capable of supporting a load of 175 kg per meter on a span of 2 m, includes the profile and cable management and support accessories typical of standard use.
Reference Product	 <p>Cat.Nos ZL300G - ZOR30090300G - ZFB30090300G - LFGM10P50 - ZCG - HCA300G - ZJC - SS1040 - HN10 - FW10 - SW10.</p> <p>SWIFTS Cable ladder system TOPAZ 300 G - hot dip galvanised finish after manufacture.</p>

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:

<p>Catalogue Numbers</p> <p>The full SWIFTS Cable ladder system (hot dip galvanised after manufacture), as presented in all relevant catalogues (width 150 to 900: TOPAZ - medium duty, SAPPHIRE - heavy duty, EMERALD - extra heavy duty) - details available on request from customer service team.</p>
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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.

• Recyclability rate:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 99 %. 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) : 0 %
- metal materials (excluding packaging) : 96 %
- other materials (excluding packaging) : 0 %
- packaging (all types of materials) : 3 %



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 United Kingdom.

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

Manufacture	Materials and components of the product (according to PSR0003 3 % scrapes rate are including in the Fonctionnal Unit), all transport for the manufacturing, the packaging and the waste generated by the manufacturing.
Distribution	Transport between the last Group distribution centre and an average delivery point in the sales area.
Installation	The end of life of the packaging, and the end of life of the 3 % scrapes.
Use	<ul style="list-style-type: none"> • Product category: PSR-0003-ed1.1-EN-2015 10 16 - 3.2.2. cable ladder systems. • Use scenario: no energy consumption during the 20 years working life. This modelling duration does not constitute a minimum durability requirement. Note: the period used is for modelling purposes only and does not constitute any form of warranty. • Energy model: Electricity Mix; Europe 27 - 2002.
End of life	The default end of life scenario maximizing the impacts.
Software and database used	EIME V5 and its database «CODDE-2015-04»

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SELECTION OF ENVIRONMENTAL IMPACTS

	Total for Life cycle		Raw material and manufacture		Distribution		Installation		Use		End of life	
Global warming	2,47E+01	kgCO₂ eq.	2,41E+01	98%	7,48E-02	< 1%	3,76E-02	< 1%	0,00E+00	0%	4,32E-01	2%
Ozone depletion	1,86E-08	kgCFC-11 eq.	1,54E-08	83%	1,52E-10	< 1%	1,89E-10	1%	0,00E+00	0%	2,81E-09	15%
Acidification of soils and water	6,94E-02	kgSO₂ eq.	6,71E-02	97%	3,36E-04	< 1%	1,62E-04	< 1%	0,00E+00	0%	1,83E-03	3%
Water eutrophication	9,27E-03	kg[PO₄]³⁻ eq.	5,94E-03	64%	7,73E-05	< 1%	1,95E-04	2%	0,00E+00	0%	3,05E-03	33%
Photochemical ozone formation	9,67E-03	kgC₂H₄ eq.	9,50E-03	98%	2,39E-05	< 1%	1,20E-05	< 1%	0,00E+00	0%	1,37E-04	1%
Depletion of abiotic resources - elements	2,47E-04	kgSb eq.	2,47E-04	100%	3,00E-09	< 1%	1,56E-09	< 1%	0,00E+00	0%	1,82E-08	< 1%
Total use of primary energy	1,61E+03	MJ	1,60E+03	100%	1,00E+00	< 1%	4,67E-01	< 1%	0,00E+00	0%	5,16E+00	< 1%
Net use of fresh water	1,99E-01	m³	1,99E-01	100%	6,70E-06	< 1%	7,65E-06	< 1%	0,00E+00	0%	1,12E-04	< 1%
Depletion of abiotic resources - fossil fuels	2,62E+02	MJ	2,55E+02	97%	1,05E+00	< 1%	5,05E-01	< 1%	0,00E+00	0%	5,68E+00	2%
Water pollution	2,08E+02	m³	1,28E+02	62%	1,23E+01	6%	5,63E+00	3%	0,00E+00	0%	6,16E+01	30%
Air pollution	3,77E+03	m³	3,74E+03	99%	3,07E+00	< 1%	1,95E+00	< 1%	0,00E+00	0%	2,46E+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.

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SELECTION OF ENVIRONMENTAL IMPACTS (CONTINUED)

For products covered by the PEP other than the Reference product, the environmental impacts of each phase of the lifecycle are calculated by weighting the environmental impacts of the Reference Product by the corresponding factors (see under)

Designation	Correction factor to apply to each indicators, for each life cycle steps or to the total life cycle
Medium duty (Topaz) 150G	0.90
Medium duty (Topaz) 300G	1.00
Medium duty (Topaz) 450G	1.19
Medium duty (Topaz) 600G	1.45
Medium duty (Topaz) 750G	1.78
Medium duty (Topaz) 900G	2.06
Medium duty (Topaz) 150D	0.96
Medium duty (Topaz) 300D	1.1
Medium duty (Topaz) 450D	1.27
Medium duty (Topaz) 600D	1.48
Medium duty (Topaz) 750D	1.88
Medium duty (Topaz) 900D	2.18

Designation	Correction factor to apply to each indicators, for each life cycle steps or to the total life cycle
Heavy duty (Sapphire) 150G	1.04
Heavy duty (Sapphire) 300G	1.11
Heavy duty (Sapphire) 450G	1.34
Heavy duty (Sapphire) 600G	1.59
Heavy duty (Sapphire) 750G	1.93
Heavy duty (Sapphire) 900G	2.21
Heavy duty (Sapphire) 150D	1.07
Heavy duty (Sapphire) 300D	1.21
Heavy duty (Sapphire) 450D	1.37
Heavy duty (Sapphire) 600D	1.63
Heavy duty (Sapphire) 750D	1.98
Heavy duty (Sapphire) 900D	2.28

Designation	Correction factor to apply to each indicators, for each life cycle steps or to the total life cycle
Extra heavy duty (Emerald) 150G	1.48
Extra heavy duty (Emerald) 300G	1.55
Extra heavy duty (Emerald) 450G	1.81
Extra heavy duty (Emerald) 600G	2.03
Extra heavy duty (Emerald) 750G	2.39
Extra heavy duty (Emerald) 900G	2.68
Extra heavy duty (Emerald) 150D	1.53
Extra heavy duty (Emerald) 300D	1.68
Extra heavy duty (Emerald) 450D	1.86
Extra heavy duty (Emerald) 600D	2.08
Extra heavy duty (Emerald) 750D	2.49
Extra heavy duty (Emerald) 900D	2.80

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Verifier accreditation N°: VH23	Information and reference documents: www.pep-ecopassport.org
Date of issue: 07-2017	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)	
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	

