

E: legrand.sales@legrand.co.uk www.legrand.co.uk

Product Environmental Profile

SWIFTS Cable ladder system G, D finishes





■ 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	
	Cat.Nos ZL300G - ZOR30090300G - ZFB30090300G - LFGM10P50 - ZCG - HCA300G - ZJC - SS1040 - HN10 - FW10 - SW10
	SWIFTS Cable ladder system TOPAZ 300 G - hot dip galvanised finish after manufacture

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:

Catalogue Numbers

The full SWIFTS Cable ladder system (hot dip galvanised, deep galvanised and pre galvanised), as presented in all relevant catalogues (width 100 to 900: TOPAZ - medium duty, SAPPHIRE - heavy duty, EMERALD - extra heavy duty) - details available on request from customer service team.



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■ CONSTITUENT MATERIALS I

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 and its delegated directive 2015/863/EU.

Total weight of	
Reference Product	6718 g (all packaging included)

Plastics as % of weight		Metals as % of weight		Other as % of weight		
		Steel	96,1 %			
		Packaging as % of weight	1			
Polyethylene	0,3 %	Steel	0,1 %	Wood	3,5 %	
				Paper / Cardboard	< 1,0 %	
Total plastics	0,3 %	Total metals	96,2 %	Total other and packaging	3,5 %	

Estimated recycled material content: 34 % by mass.



MANUFACTURE

This Reference Product comes from sites that observe the applicable legislation for industrial sites.



■ 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 217 km by road from our warehouse to the local point of distribution into the market in United Kingdom.

Packaging is compliant with applicable regulation. At their end of life, its recyclability rate is 87 % (in % of packaging weight).



INSTALLATION

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



USE I

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



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■ END OF LIFE I

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:

- metal materials (excluding packaging) : 96 % - 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 the UK.

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

Manufacture	Materials and components of the product (according to PSR0003, 3 % scrapes rate is included in the Functional 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	 Product category: PSR-0003-ed1.1-EN-2015 10 16 - 3.2.2.2. Cable ladder systems. Use scenario: no energy consumption during the 20 years working life. This modelling duration does not constitute a minimum durabilty requirement. Energy model: Electricity Mix; Europe 27 - 2008.
End of life	The default end of life scenario maximizing the impacts.
Software and database used	EIME V5 and its database «CODDE-2018-11»



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■ SELECTION OF ENVIRONMENTAL IMPACTS ■

	Total for l	_ife cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	•
Global warming	2.57E+01	kgCO ₂ eq.	2.51E+01	98%	7.25E-02	< 1%	3.96E-02	< 1%	0.00E+00	0%	4.14E-01	2%
Ozone depletion	1.10E-07	kgCFC-11 eq.	1.07E-07	97%	1.47E-10	< 1%	2.53E-10	< 1%	0.00E+00	0%	2.65E-09	2%
Acidification of soils and water	7.11E-02	kgSO ₂ eq.	6.89E-02	97%	3.26E-04	< 1%	1.70E-04	< 1%	0.00E+00	0%	1.76E-03	2%
Water eutrophication	9.50E-03	kg(PO ₄)³- eq.	6.29E-03	66%	7.49E-05	< 1%	2.02E-04	2%	0.00E+00	0%	2.94E-03	31%
Photochemical ozone formation	9.71E-03	kgC ₂ H ₄ eq.	9.54E-03	98%	2.32E-05	< 1%	1.26E-05	< 1%	0.00E+00	0%	1.32E-04	1%
Depletion of abiotic resources - elements	2.39E-04	kgSb eq.	2.39E-04	100%	2.90E-09	< 1%	1.70E-09	< 1%	0.00E+00	0%	1.74E-08	< 1%
Total use of primary energy	1.59E+03	МЛ	1.58E+03	100%	1.03E+00	< 1%	5.11E-01	< 1%	0.00E+00	0%	5.19E+00	< 1%
Net use of fresh water	2.45E+00	m³	2.45E+00	100%	6.49E-06	< 1%	9.85E-06	< 1%	0.00E+00	0%	1.06E-04	< 1%
Depletion of abiotic resources - fossil fuels	2.55E+02	МЛ	2.48E+02	97%	1.02E+00	< 1%	5.00E-01	< 1%	0.00E+00	0%	5.07E+00	2%
Water pollution	2.79E+02	m³	2.02E+02	72%	1.19E+01	4%	5.84E+00	2%	0.00E+00	0%	5.92E+01	21%
Air pollution	3.67E+03	m³	3.64E+03	99%	2.97E+00	< 1%	2.23E+00	< 1%	0.00E+00	0%	2.34E+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 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 table on page 5).



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■ SELECTION OF ENVIRONMENTAL IMPACTS (CONTINUED)

Designation	Correction factor*	Designation	Correction factor*	Designation	Correction factor*
Medium duty (Topaz) 100G	0.84	Heavy duty (Sapphire) 100G	0.93	Extra heavy duty (Emerald) 100G	1.29
Medium duty (Topaz) 150G	0.88	Heavy duty (Sapphire) 150G	0.98	Extra heavy duty (Emerald) 150G	1.33
Medium duty (Topaz) 200G	0.92	Heavy duty (Sapphire) 200G	1.02	Extra heavy duty (Emerald) 200G	1.31
Medium duty (Topaz) 300G	1.00	Heavy duty (Sapphire) 300G	1.10	Extra heavy duty (Emerald) 300G	1.46
Medium duty (Topaz) 450G	1.14	Heavy duty (Sapphire) 450G	1.24	Extra heavy duty (Emerald) 450G	1.60
Medium duty (Topaz) 500G	1.19	Heavy duty (Sapphire) 500G	1.29	Extra heavy duty (Emerald) 500G	1.66
Medium duty (Topaz) 600G	1.30	Heavy duty (Sapphire) 600G	1.41	Extra heavy duty (Emerald) 600G	1.78
Medium duty (Topaz) 750G	1.67	Heavy duty (Sapphire) 750G	1.78	Extra heavy duty (Emerald) 750G	2.15
Medium duty (Topaz) 800G	1.78	Heavy duty (Sapphire) 800G	1.89	Extra heavy duty (Emerald) 800G	2.27
Medium duty (Topaz) 900G	1.92	Heavy duty (Sapphire) 900G	2.03	Extra heavy duty (Emerald) 900G	2.41
Medium duty (Topaz) 100D	0.87	Heavy duty (Sapphire) 100D	0.98	Extra heavy duty (Emerald) 100D	1.33
Medium duty (Topaz) 150D	0.92	Heavy duty (Sapphire) 150D	1.02	Extra heavy duty (Emerald) 150D	1.38
Medium duty (Topaz) 200D	0.96	Heavy duty (Sapphire) 200D	1.07	Extra heavy duty (Emerald) 200D	1.43
Medium duty (Topaz) 300D	1.04	Heavy duty (Sapphire) 300D	1.15	Extra heavy duty (Emerald) 300D	1.51
Medium duty (Topaz) 450D	1.19	Heavy duty (Sapphire) 450D	1.29	Extra heavy duty (Emerald) 450D	1.66
Medium duty (Topaz) 500D	1.24	Heavy duty (Sapphire) 500D	1.35	Extra heavy duty (Emerald) 500D	1.72
Medium duty (Topaz) 600D	1.36	Heavy duty (Sapphire) 600D	1.47	Extra heavy duty (Emerald) 600D	1.84
Medium duty (Topaz) 750D	1.75	Heavy duty (Sapphire) 750D	1.86	Extra heavy duty (Emerald) 750D	2.24
Medium duty (Topaz) 800D	1.85	Heavy duty (Sapphire) 800D	1.96	Extra heavy duty (Emerald) 800D	2.35
Medium duty (Topaz) 900D	2.01	Heavy duty (Sapphire) 900D	2.01	Extra heavy duty (Emerald) 900D	2.51

Registration N°: LGRP-00447-V02.01-EN	Drafting rules: «PEP-PCR-ed3-EN-2015 04 02» Supplemented by «PSR-0003-ed1.1-EN-2015 10 16»			
Verifier accreditation N°: VH23	Information and reference documents: www.pep-ecopassport.org			
Date of issue: 12-2022	Validity period: 5 years			
Independent verification of the declaration and data, in confinernal ☑ External ☐ The PCR review was conducted by a panel of experts chain				
PEP are compliant with XP C08-100-1 : 2016 The elements of the present PEP cannot be compared with	ecc			
Document in compliance with ISO 14025: 2010: «Environme declarations»				
Environmental data in alignment with EN 15804: 2012 + A1	1: 2013			

^{*}To apply to each indicator, for each life cycle steps or to the total life cycle