

Product Environmental Profile

SWIFTS Cable tray system - PG (pre-galvanised), G and D finishes (hot dip galvanised after manufacture)



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 tray system SWIFTS heavy Duty SRF150G, capable of supporting a load of 40 kg per meter on a span of 1.5 m, includes the profile and cable management and support accessories typical of standard use.
Reference Product	 <p>Cat.No SRFL150G - SFROR150G - SFRIR150G - SFRB150G - SRFLG - LCA150G - RB0612 - RWG06 - SCLG Swifts SRF 150 heavy duty cable tray - 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:

Catalogue Numbers
The full Swifts cable tray system as presented in all relevant catalogues (width 50 to 900: SS - light duty, MRF - medium duty, SRF - heavy duty, XRF - extra heavy duty) - details available on request from Legrand's customer services team.

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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) : 98 %
- other materials (excluding packaging) : 0 %
- packaging (all types of materials) : 1 %



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:

Manufacture	Materials and components of the product, 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.
Use	<ul style="list-style-type: none"> • Product category: PSR-0003-ed1.1-EN-2015 10 16 - 3.2.2.1. Cable tray systems. • Use scenario: no energy consumption during the 20 years working life. This modelling duration does not constitute a minimum durability requirement. • 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	
	Value	Unit	Value	%	Value	%	Value	%	Value	%	Value	%
Global warming	9.91E+00	kgCO ₂ eq.	9.69E+00	98 %	2.98E-02	< 1 %	1.34E-02	< 1 %	0.00E+00	0 %	1.75E-01	2 %
Ozone depletion	3.99E-09	kgCFC-11 eq.	2.70E-09	68 %	6.04E-11	2 %	1.12E-10	3 %	0.00E+00	0 %	1.12E-09	28 %
Acidification of soils and water	2.68E-02	kgSO ₂ eq.	2.59E-02	97 %	1.34E-04	< 1 %	5.64E-05	< 1 %	0.00E+00	0 %	7.40E-04	3 %
Water eutrophication	3.69E-03	kg(PO ₄) ³⁻ eq.	2.34E-03	63 %	3.08E-05	< 1 %	8.12E-05	2 %	0.00E+00	0 %	1.24E-03	34 %
Photochemical ozone formation	3.79E-03	kgC ₂ H ₄ eq.	3.72E-03	98 %	9.53E-06	< 1 %	4.22E-06	< 1 %	0.00E+00	0 %	5.54E-05	1 %
Depletion of abiotic resources - elements	3.50E-05	kgSb eq.	3.50E-05	100 %	1.19E-09	< 1 %	5.98E-10	< 1 %	0.00E+00	0 %	7.33E-09	< 1 %
Total use of primary energy	5.30E+02	MJ	5.27E+02	100 %	4.00E-01	< 1 %	1.60E-01	< 1 %	0.00E+00	0 %	2.09E+00	< 1 %
Net use of fresh water	8.65E-02	m ³	8.65E-02	100 %	2.67E-06	< 1 %	4.27E-06	< 1 %	0.00E+00	0 %	4.46E-05	< 1 %
Depletion of abiotic resources - fossil fuels	1.07E+02	MJ	1.04E+02	97 %	4.19E-01	< 1 %	1.79E-01	< 1 %	0.00E+00	0 %	2.29E+00	2 %
Water pollution	8.91E+01	m ³	5.74E+01	64 %	4.91E+00	6 %	1.89E+00	2 %	0.00E+00	0 %	2.49E+01	28 %
Air pollution	1.55E+03	m ³	1.54E+03	99 %	1.22E+00	< 1 %	8.46E-01	< 1 %	0.00E+00	0 %	9.87E+00	< 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 table under)

Designation	Correction factor to apply to each indicators, for each life cycle steps or to the total life cycle
SS light duty 50PG	0.21
SS light duty 75PG	0.29
SS hght duty 100PG	0.34
SS light duty 150PG	0.47
SS light duty 225PG	0.78
SS light duty 300PG	1.36
SS light duty 50G	0.24
SS light duty 75G	0.30
SS light duty 100G	0.37
SS light duty 150G	0.53
SS light duty 225G	0.84
SS light duty 300G	1.55
MRF medium duty 50PG	0.34
MRF medium duty 75PG	0.45
MRF medium duty 100PG	0.51
MRF medium duty 150PG	0.66
MRF medium duty 225PG	1.06
MRF medium duty 300PG	1.41
MRF medium duty 450PG	2.61
MRF medium duty 600PG	3.66
MRF medium duty 750PG	5.86
MRF medium duty 900EG	7.19
MRF medium duty 50G	0.36
MRF medium duty 75G	0.47
MRF medium duty 100G	0.53
MRF medium duty 150G	0.68
MRF medium duty 225G	1.11
MRF medium duty 300G	1.47
MRF medium duty 450G	2.72
MRF medium duty 600G	3.81
MRF medium duty 750G	6.11
MRF medium duty 900G	7.49
MRF medium duty 50D	0.38
MRF medium duty 75D	0.49
MRF medium duty 100D	0.56
MRF medium duty 150D	0.72
MRF medium duty 225D	1.17
MRF medium duty 300D	1.56
MRF medium duty 450D	2.88
MRF medium duty 600D	2.88
MRF medium duty 750D	4.04
MRF medium duty 750D	6.47
MRF medium duty 900D	7.94
SRF heavy duty 75PG	0.69
SRF heavy duty 100PG	0.73
SRF heavy duty 150PG	0.96
SRF heavy duty 225PG	1.37
SRF heavy duty 300PG	1.69

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SELECTION OF ENVIRONMENTAL IMPACTS (CONTINUED)

SRF heavy duty 450PG	2.81
SRF heavy duty 600PG	3.89
SRF heavy duty 750PG	6.21
SRF heavy duty 900PG	7.55
SRF heavy duty 75G	0.72
SRF heavy duty 100G	0.76
SRF heavy duty 150G	1.00
SRF heavy duty 225G	1.42
SRF heavy duty 300G	1.76
SRF heavy duty 450G	2.93
SRF heavy duty 600G	4.05
SRF heavy duty 750G	6.47
SRF heavy duty 900G	7.87
SRF heavy duty 75D	0.76
SRF heavy duty 100D	0.80
SRF heavy duty 150D	1.06
SRF heavy duty 225D	1.51
SRF heavy duty 300D	1.87
SRF heavy duty 450D	3.11
SRF heavy duty 600D	4.29
SRF heavy duty 750D	6.85
SRF heavy duty 900D	8.34
XRF extra heavy duty 100G	1.43
XRF extra heavy duty 150G	1.63
XRF extra heavy duty 225G	2.06
XRF extra heavy duty 300G	2.43
XRF extra heavy duty 450G	4.34
XRF extra heavy duty 600G	5.68
XRF extra heavy duty 100D	1.52
XRF extra heavy duty 150D	1.73
XRF extra heavy duty 225D	2.19
XRF extra heavy duty 300D	2.58
XRF extra heavy duty 450D	4.60
XRF extra heavy duty 600D	6.02

Registration N°: LGRP-00448-V01.01-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: 10/2017	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)	
PEP are compliant with XP C08-100-1 : 2014 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	

