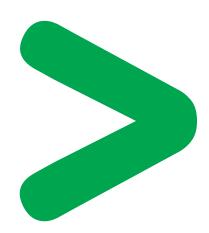
Product Environmental Profile

Multifix TED, flush mounted boxes









Product Environmental Profile - PEP

Product Overview _

The main function of the Multifix TED flush mounted box range is to facilitate housing for different wiring devices in buildings.

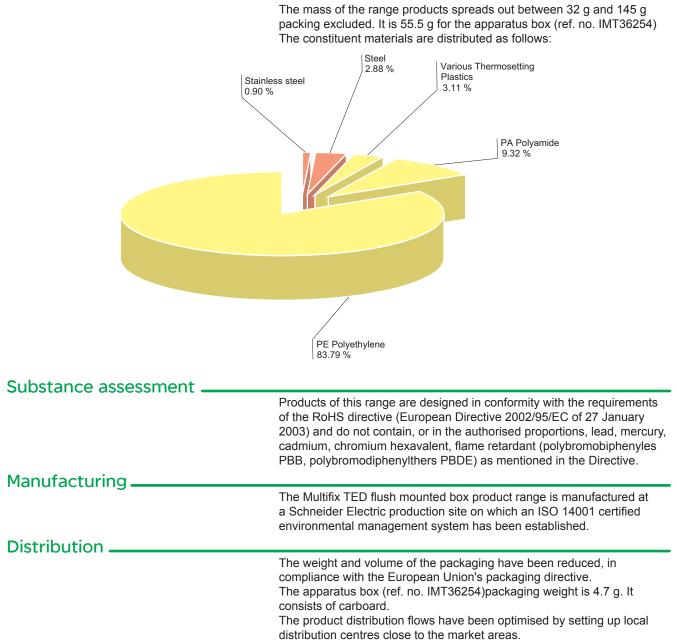
This range consists of junction boxes, apparatus boxes and stove box.

The representative product used for the analysis is an apparatus box (ref. no. IMT36254). The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with the same technology.

The environmental analysis was performed in conformity with ISO 14040 "Environmental management: Life cycle assessment – Principle and framework".

This analysis takes the stages in the life cycle of the product into account.

Constituent materials _



Product Environmental Profile - PEP

Utilization				
	The products of the Multifix TED flush mounted box range do not generate environmental pollution requiring special precautionary measures (noise, emissions, and so on).			
End of life				
	At end of life, the products in the Multifix TED flush mounted box range can either be dismantled or grinded to facilitate the recovery of the various constituent materials. The proportion of recyclable material is higher than 79 %. This percentage includes the following materials: Polyethylene and steel. The end of life details appear on the product end-of-life recovery sheet.			
Environmental impacts				
	The EIME (Environmental Impact and Management Explorer) software, version 4.0, and its database, version V10 were used for the life cycle assessment (LCA).			
	The assumed service life of the product is 20 years.			
	The scope of the analysis was limited to an apparatus box (ref. no. : IMT36254)			
	The environmental impacts were analysed for the Manufacturing (M) phases, including the processing of raw materials,			
	and for the Distribution (D) and Utilization (U) phases.			

Presentation of the environmental impacts

Environmental indicators	Short	Unit	One apparatus box Multifix TED, IMT36254			
			S = M + D + U	М	D	U
Raw material depletion	RMD	Y-1	2.3036E ⁻¹⁷	2.2492E ⁻¹⁷	5.4318E ⁻¹⁹	0.00E ⁺⁰⁰
Energy depletion	ED	MJ	9.071	8.672	3.9868E ⁻¹	0.00E ⁺⁰⁰
Water depletion	WD	dm ³	1.67	1.612	5.7491E ⁻²	0.00E ⁺⁰⁰
Global warming	GW	g ~CO ₂	4.1169E ²	3.8696E ²	24.728	0.00E ⁺⁰⁰
Ozone depletion	OD	g ~CFC-11	7.3278E ⁻⁵	5.5289E-5	1.7989E⁻⁵	0.00E ⁺⁰⁰
Photochemical ozone creation	POC	g ~C ₂ H ₄	2.4004E ⁻¹	2.1826E-1	2.1779E ⁻²	0.00E ⁺⁰⁰
Air acidification	AA	g ~H⁺	6.8663E ⁻²	6.4253E ⁻²	4.4103E-3	0.00E ⁺⁰⁰
Hazardous waste production	HWP	kg	4.4893E ⁻³	4.4813E-3	7.9505E ⁻⁶	0.00E ⁺⁰⁰

The life cycle analysis shows that the manufacturing phase (M) is the life cycle phase which has the greatest impact on the majority of environmental indicators. The environmental parameters of this phase have been optimized at the design stage. The environmental impacts are proportional to the weight of other products in the range. The impact variability between the heaviest part and the lightest part of the range is less than 215 %.

Product Environmental Profile - PEP

System approach	
	As the product of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction within an assembly or an installation submitted to this Directive.
Classer	N.B.: please note that the environmental impacts of the product depend on the use and installation conditions of the product. Impacts values given above are only valid within the context specified and cannot be directly used to draw up the environmental assessment of the installation.
Glossary	
Raw Material Depletion (RMD)	This indicator quantifies the consumption of raw materials during the life cycle of the product. It is expressed as the fraction of natural resources that disappear each year, with respect to all the annual reserves of the material.
Energy Depletion (ED)	This indicator gives the quantity of energy consumed, whether it be from fossil, hydroelectric, nuclear or other sources. This indicator takes into account the energy from the material produced during combustion. It is expressed in MJ.
Water Depletion (WD)	This indicator calculates the volume of water consumed, including drinking water and water from industrial sources. It is expressed in dm ³ .
Global Warming (GW)	The global warming of the planet is the result of the increase in the greenhouse effect due to the sunlight reflected by the earth's surface being absorbed by certain gases known as "greenhouse-effect" gases. The effect is quantified in gram equivalent of CO_2 .
Ozone Depletion (OD)	This indicator defines the contribution to the phenomenon of the disappearance of the stratospheric ozone layer due to the emission of certain specific gases. The effect is expressed in gram equivalent of CFC-11.
Photochemical Ozone Creation (POC)	This indicator quantifies the contribution to the "smog" phenomenon (the photochemical oxidation of certain gases which generates ozone) and is expressed in gram equivalent of ethylene (C_2H_4).
Air Acidification (AA)	The acid substances present in the atmosphere are carried by rain. A high level of acidity in the rain can cause damage to forests. The contribution of acidification is calculated using the acidification potentials of the substances concerned and is expressed in mode equivalent of H^+ .
Hazardous Waste Production (HWP)	This indicator calculates the quantity of specially treated waste created during all the life cycle phases (manufacturing, distribution and utilization). For example, special industrial waste in the manufacturing phase, waste associated with the production of electrical power, etc. It is expressed in kg.

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