

# Product Environmental Profile

## TEX-C2 & TEX-C5M THROUGH BOLT M8X95





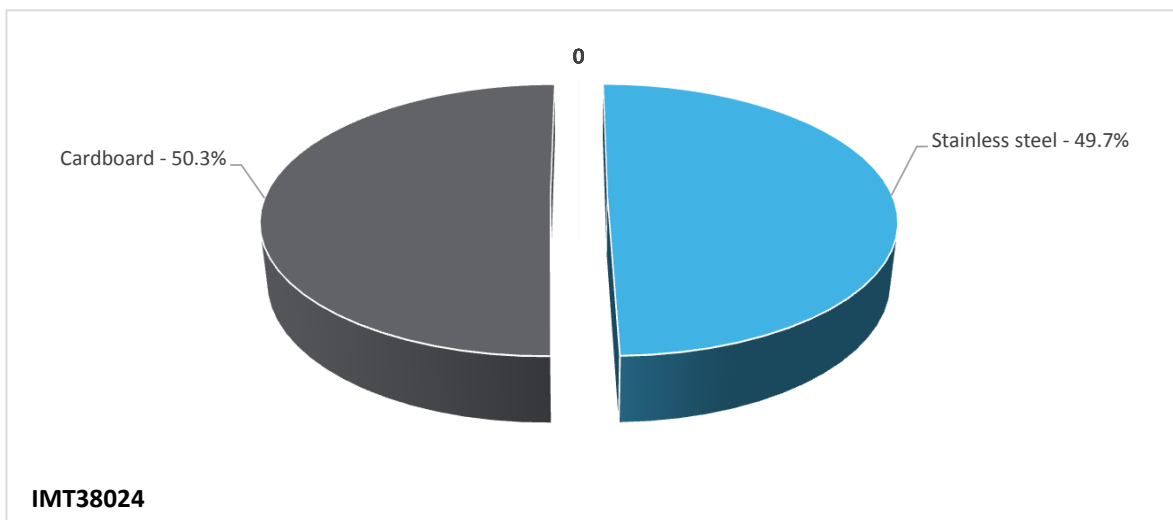
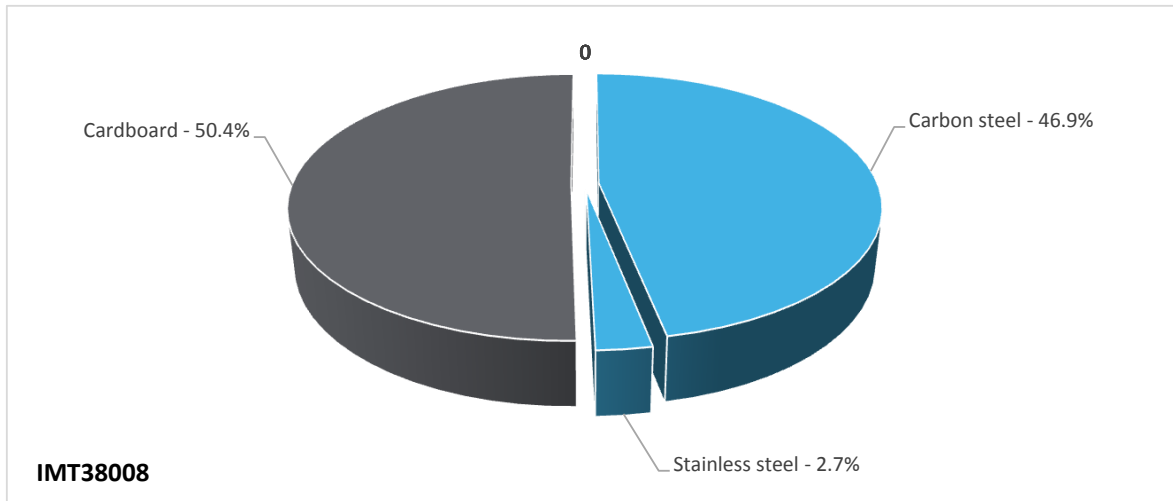
## General information

<b>Representative product</b>	TEX-C2 & TEX-C5M THROUGH BOLT M8X95 -IMT38008 & IMT38024
<b>Description of the product</b>	The main function of the Thorsman range of TEX through bolts includes bolts for indoor as well as outdoor applications. To fasten up electrical equipment to both concrete and natural rock with high quality anchor and fast grip design at a maximum torque.
<b>Functional unit</b>	To fasten up to 900 kg of electrical equipment to both concrete and natural rock with high quality anchor and fast grip design at a maximum torque of 23 Nm for a 20 years.



## Constituent materials

<b>Reference product mass</b>	83 g for IMT38008 & 83.57 g for IMT38024 including the product, its packaging.
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## Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers - PBDE) as mentioned in the Directive

As the products 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 in an assembly or an installation subject to this Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website

<http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page>

## Additional environmental information

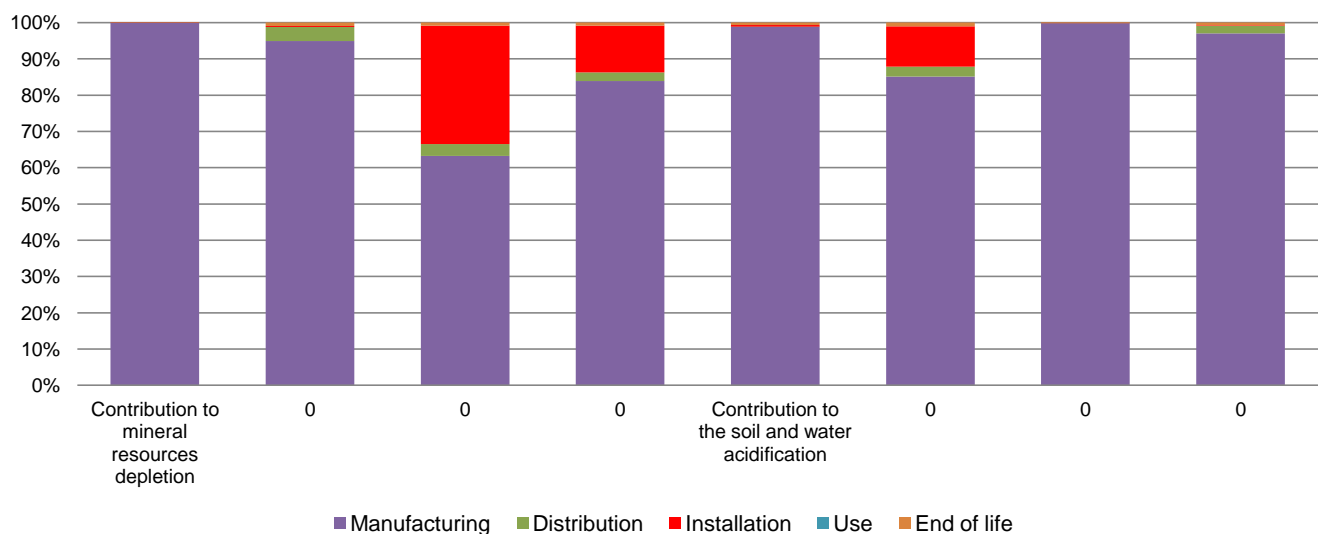
The TEX-C2 & TEX-C5M THROUGH BOLT M8X95 presents the following relevant environmental aspects

<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified		
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 41.80 g for IMT38008 & 42.10 g for IMT38024, consisting of cardboard (100%) Product distribution optimised by setting up local distribution centres		
<b>Use</b>	The product does not require special maintenance operations.		
<b>End of life</b>	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process.  Recyclability potential: <b>94%</b> Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).		

## Environmental impacts

<b>Reference life time</b>	20 years			
<b>Category</b>	Fastener			
<b>Installation elements</b>	No special components needed			
<b>Use scenario</b>	This product does not have any energy consumption			
<b>Geographical representativeness</b>	Europe and Nordic			
<b>Technological representativeness</b>	The main function of the Thorsman range of TEX through bolts includes bolts for indoor as well as outdoor applications. To fasten up electrical equipment to both concrete and natural rock with high quality anchor and fast grip design at a maximum torque.			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Energy model used: Taiwan	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27		Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

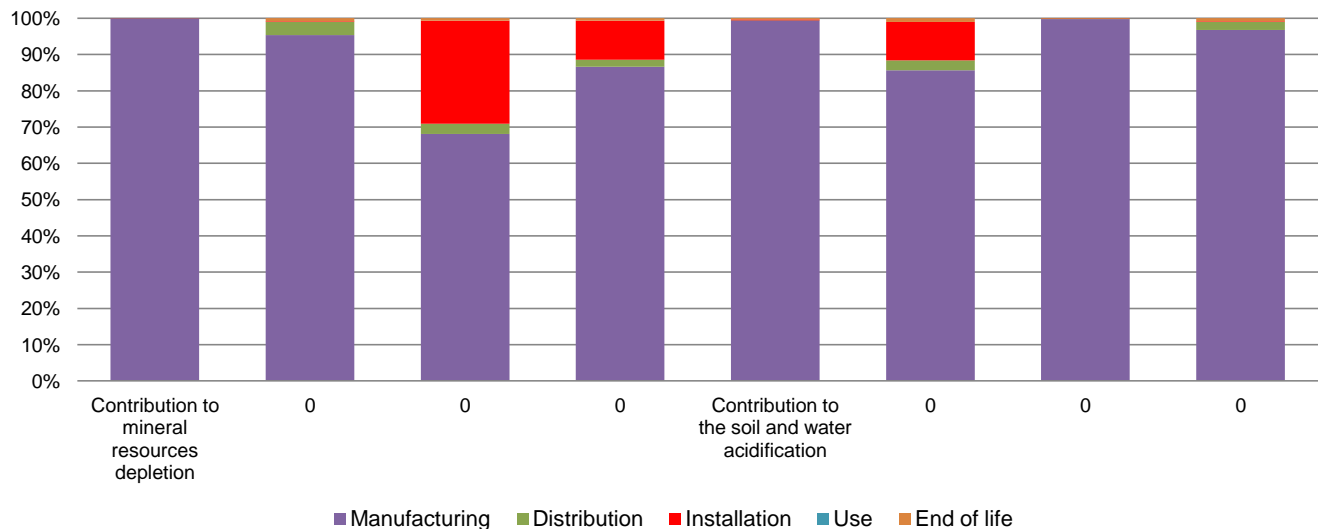
Compulsory indicators		TEX-C2 THROUGH BOLT M8X95 - IMT38008						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Contribution to mineral resources depletion	kg Sb eq	5,64E-05	5,64E-05	0*	0*	0*	0*	
Contribution to the soil and water acidification	kg SO2 eq	1,24E-03	1,18E-03	4,89E-05	2,73E-06	0*	1,18E-05	
Contribution to water eutrophication	kg PO43- eq	3,43E-04	2,17E-04	1,13E-05	1,12E-04	0*	2,78E-06	
Contribution to global warming	kg CO2 eq	4,48E-01	3,75E-01	1,07E-02	5,77E-02	0*	3,83E-03	
Contribution to ozone layer depletion	kg CFC11 eq	3,59E-08	3,55E-08	2,17E-11	1,44E-10	0*	2,45E-10	
Contribution to photochemical oxidation	kg C2H4 eq	1,25E-04	1,06E-04	3,49E-06	1,38E-05	0*	1,28E-06	
Resources use		Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	3,90E-03	3,89E-03	9,58E-07	1,38E-06	0*	4,69E-06	
Total Primary Energy	MJ	7,47E+00	7,24E+00	1,51E-01	1,13E-02	0*	5,97E-02	



Optional indicators		TEX-C2 THROUGH BOLT M8X95 - IMT38008						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Contribution to fossil resources depletion	MJ	5,03E+00	4,81E+00	1,50E-01	9,85E-03	0*	5,43E-02	
Contribution to air pollution	m³	8,85E+01	8,74E+01	4,56E-01	1,95E-01	0*	4,21E-01	
Contribution to water pollution	m³	3,27E+01	2,74E+01	1,76E+00	3,11E+00	0*	4,50E-01	
Resources use		Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	0,00E+00	0*	0*	0*	0*	0*	
Total use of renewable primary energy resources	MJ	9,41E-01	9,40E-01	2,02E-04	0*	0*	0*	
Total use of non-renewable primary energy resources	MJ	6,53E+00	6,30E+00	1,51E-01	1,13E-02	0*	5,96E-02	
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	7,87E-02	7,84E-02	2,02E-04	0*	0*	6,70E-05	
Use of renewable primary energy resources used as raw material	MJ	8,62E-01	8,62E-01	0*	0*	0*	0*	
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6,53E+00	6,30E+00	1,51E-01	1,13E-02	0*	5,96E-02	
Use of non renewable primary energy resources used as raw material	MJ	0,00E+00	0*	0*	0*	0*	0*	
Use of non renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*	
Use of renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*	

Waste categories	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	4,50E+00	4,45E+00	0*	0*	0*	4,38E-02
Non hazardous waste disposed	kg	2,21E-01	1,78E-01	3,80E-04	4,18E-02	0*	1,84E-04
Radioactive waste disposed	kg	8,05E-05	7,98E-05	2,71E-07	7,17E-08	0*	2,82E-07
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	5,04E-02	1,17E-02	0*	0*	0*	3,87E-02
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	0,00E+00	0*	0*	0*	0*	0*
Exported Energy	MJ	0,00E+00	0*	0*	0*	0*	0*

Compulsory indicators		TEX-C5M THROUGH BOLT M8X95 - IMT38024					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	3,29E-05	3,29E-05	0*	0*	0*	0*
Contribution to the soil and water acidification	kg SO2 eq	1,38E-03	1,31E-03	4,92E-05	2,75E-06	0*	1,19E-05
Contribution to water eutrophication	kg PO43- eq	3,97E-04	2,70E-04	1,13E-05	1,13E-04	0*	2,80E-06
Contribution to global warming	kg CO2 eq	5,43E-01	4,70E-01	1,08E-02	5,81E-02	0*	3,86E-03
Contribution to ozone layer depletion	kg CFC11 eq	6,92E-08	6,88E-08	2,18E-11	1,45E-10	0*	2,47E-10
Contribution to photochemical oxidation	kg C2H4 eq	1,31E-04	1,12E-04	3,51E-06	1,39E-05	0*	1,29E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	3,69E-03	3,68E-03	9,65E-07	1,39E-06	0*	4,72E-06
Total Primary Energy	MJ	6,91E+00	6,69E+00	1,52E-01	1,13E-02	0*	6,01E-02



Optional indicators		TEX-C5M THROUGH BOLT M8X95 - IMT38024					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	6,38E+00	6,16E+00	1,51E-01	9,91E-03	0*	5,47E-02
Contribution to air pollution	m³	6,53E+01	6,43E+01	4,59E-01	1,97E-01	0*	4,24E-01
Contribution to water pollution	m³	4,41E+01	3,88E+01	1,77E+00	3,13E+00	0*	4,53E-01

Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	0,00E+00	0*	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	9,36E-01	9,36E-01	2,03E-04	0*	0*	0*
Total use of non-renewable primary energy resources	MJ	5,98E+00	5,75E+00	1,52E-01	1,13E-02	0*	6,01E-02
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	6,85E-02	6,82E-02	2,03E-04	0*	0*	6,75E-05
Use of renewable primary energy resources used as raw material	MJ	8,67E-01	8,67E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	5,98E+00	5,75E+00	1,52E-01	1,13E-02	0*	6,01E-02
Use of non renewable primary energy resources used as raw material	MJ	0,00E+00	0*	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*
Waste categories	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	2,44E+00	2,40E+00	0*	0*	0*	4,42E-02
Non hazardous waste disposed	kg	1,57E-01	1,14E-01	3,83E-04	4,21E-02	0*	1,85E-04
Radioactive waste disposed	kg	5,42E-05	5,36E-05	2,73E-07	7,22E-08	0*	2,84E-07
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	5,08E-02	1,18E-02	0*	0*	0*	3,90E-02
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	0,00E+00	0*	0*	0*	0*	0*
Exported Energy	MJ	0,00E+00	0*	0*	0*	0*	0*

\* represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version EIME v5.6.0.1, database version 2016-11 in compliance with ISO14044.

The manufacturing phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

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Date of issue	09/2017		
Validity period	5 years	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
Independent verification of the declaration and data.			
Internal	X	External	
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. - Self-declared environmental claims (Type II environmental labelling) »			

Schneider Electric Industries SAS  
Country Customer Care Center  
<http://www.schneider-electric.com/contact>

35, rue Joseph Monier  
CS 30323  
F- 92506 Rueil Malmaison Cedex  
RCS Nanterre 954 503 439  
Capital social 896 313 776 €

[www.schneider-electric.com](http://www.schneider-electric.com)

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