

Product Environmental Profile

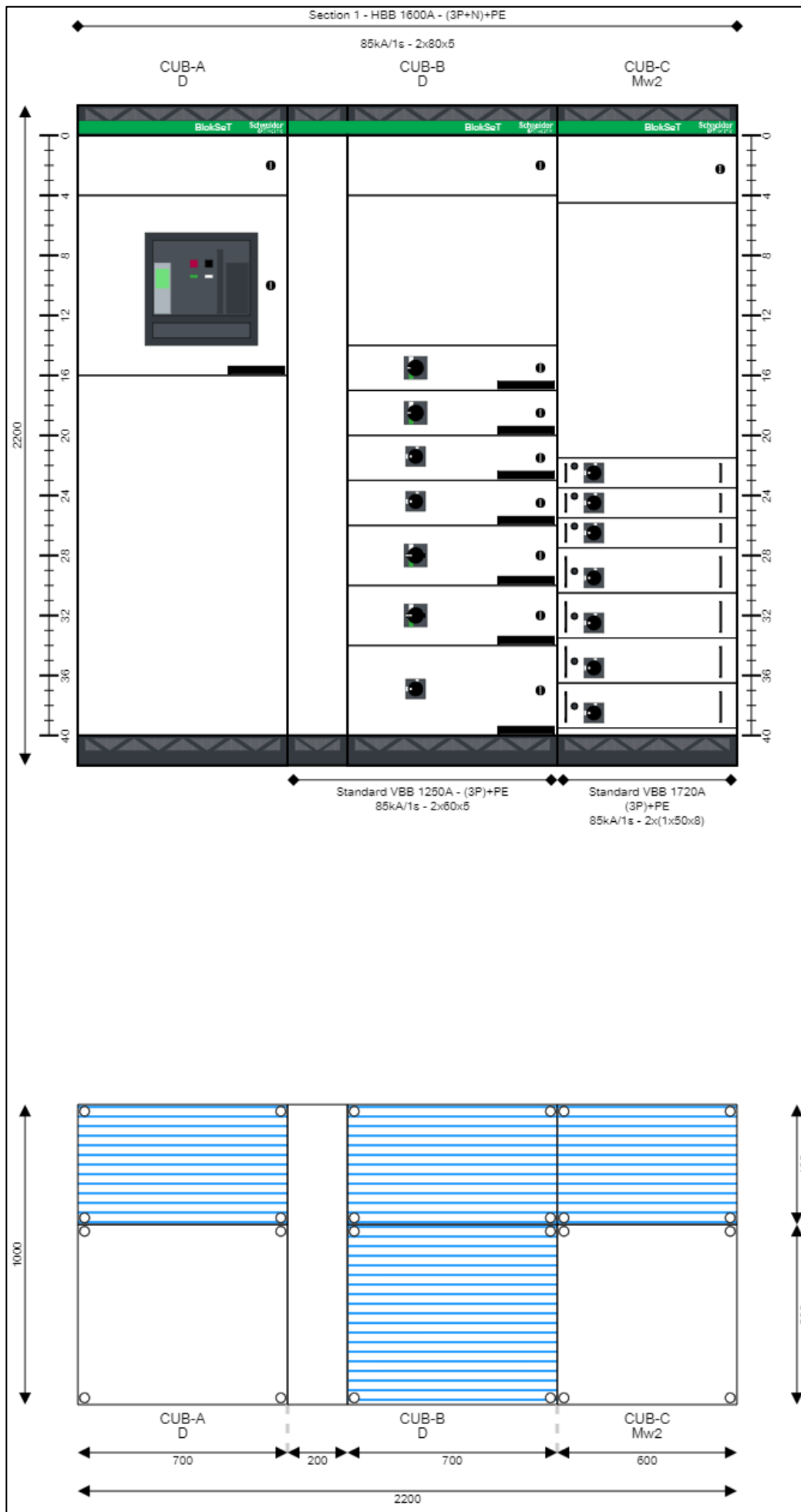
BLOKSET IP 54





General information

Representative product	BLOKSET IP 54 - 2500A
Description of the product	BLOKSET IP 54 - 2500A is an assembled enclosures with busbar. It is designed to integrate and allow the installation of electric devices such as Circuit breakers (ACB, MCCB & MCB), Switch disconnectors, Busbars for connection as per the customer requirement for rated maximum current 2500A/1100A (Horizontal/Vertical).
Functional unit	It is an assembled enclosures with busbars for maximum rated current 2500A/1100A (Horizontal/Vertical). It is a Low Voltage Switchboard cabinet having the following dimensions 2200 X 2200 X 1000 mm and the main purpose of this product is to distribute, protect, control, measure and signal electrical power for 20 years. Continuous current pass through the busbars for the devices to be connected. It can withstand mechanical impacts (IK10 - IEC62262) and the penetration of solid objects and liquids (IP54 - IEC 60529) in accordance with IEC 61439-1 and 2 standards.



Lists of functions included in the configuration

BLOKSET TYPE	SIZE	DEVICE	DEVICE FUNCTION
1.BLOKSET Type D CUB-A	Width 700mm Depth 1000mm	1x MASTERPACT NW 25 / MTZ 225 3P Withdrawable	Main Incomer
2.BLOKSET Type D+Mf CUB-B	Width 200+700mm Depth 1000mm	1 x 4M Spare Space	Spare
		1 x 6M Spare Space	Spare
		1 x 3M NSX160 S 3P TM-D 160A	3P Distribution Feeder
		1 x 3M NSX250 N 3P TM-D 250A	3P Distribution Feeder
		1 x 4M NSX400 N 3P TM-D 400A	3P Distribution Feeder
		1 x 4M NSX630 N 3P TM-D 630A	3P Distribution Feeder
		1 x 3M 11Kw 415V Coordination Type2	3P Motor Feeder
		1 x 3M 37Kw 415V Coordination Type2	3P Motor Feeder
2.BLOKSET Type Mw2 CUB-C	Width 600mm Depth 1000mm	1 x 6M 55Kw 415V Coordination Type2	3P Motor Feeder
		1 x 2M/2 11Kw 415V Total Coordination-Drawer-1	3P Motor Feeder
		1 x 2M 9Kw 415V Coordination Type2-Drawer-2	3P Motor Feeder
		1 x 3M 18.5Kw 415V Coordination Type2-Drawer-3	3P Motor Feeder
		2 x 3M Spare Space-Drawer- 4 & 5	Spare
		1 x 3M 22Kw 415V Coordination Type2-Drawer-6	3P Motor Feeder
		1 x 2M 7.5Kw 415V Coordination Type2-Drawer-7	3P Motor Feeder
		1 x 3M 30Kw 415V Coordination Type2-Drawer-8	3P Motor Feeder
		1 x 3M 37Kw 415V Coordination Type2-Drawer-9	3P Motor Feeder
2 x 5M Spare Space-Drawer-10 & 11	Spare		

The various components or products which are installed inside BLOKSET IP 54 - 2500A panel have their own life expectancy and must follow their individual technical documents for maintenance or replacement.

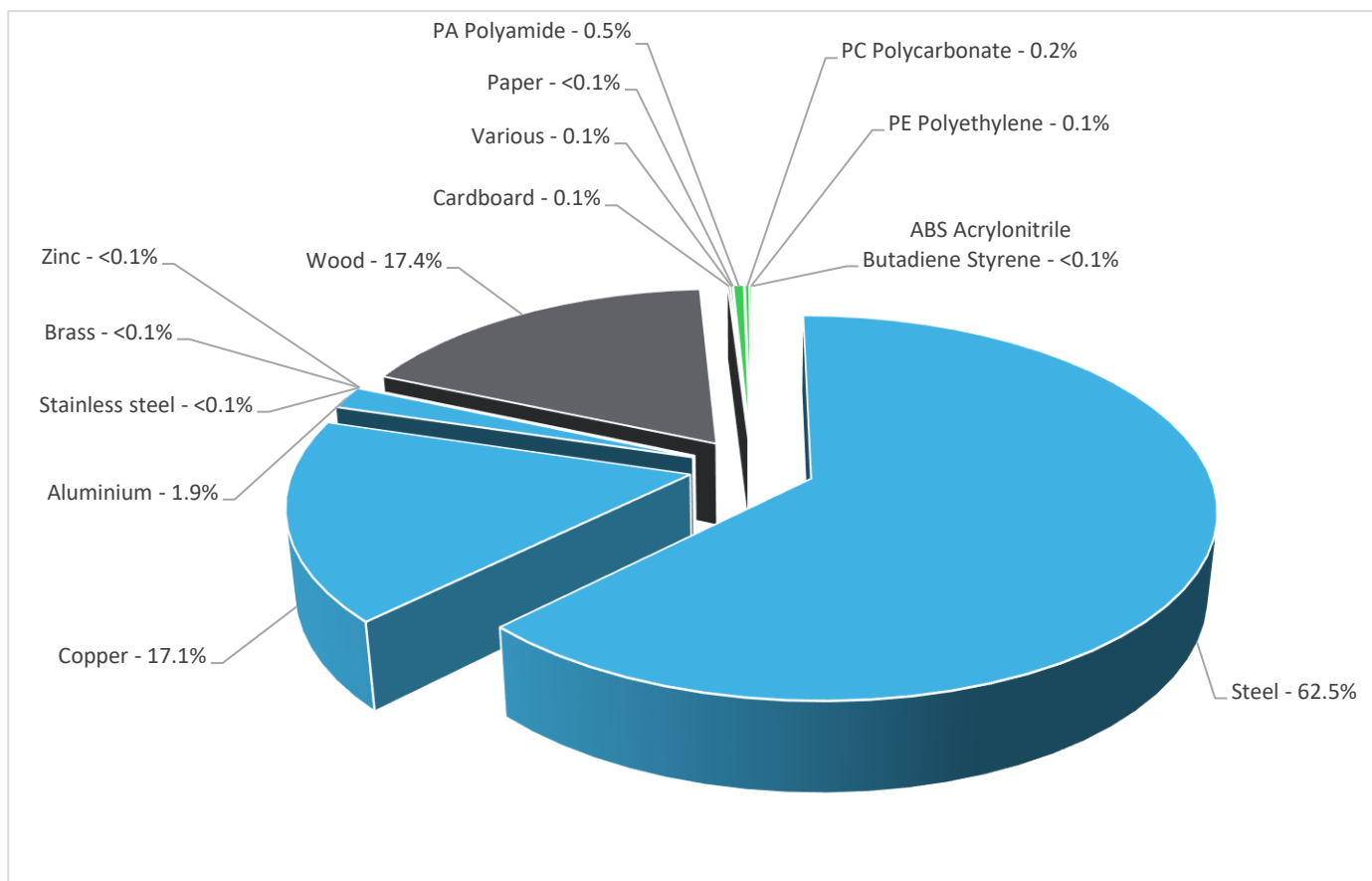
The environmental impacts have been calculated for elements of BLOKSET IP 54 - 2500A. Impacts of circuit breakers, contactors and relays to be assembled have not been integrated in the calculation.



Constituent materials

Reference product mass

1542000 g including the product, its packaging and additional elements and accessories



Plastics	0.8%
Metals	81.5%
Others	17.6%



Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) 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), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) as mentioned in the 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 BLOKSET IP 54 presents the following relevant environmental aspects

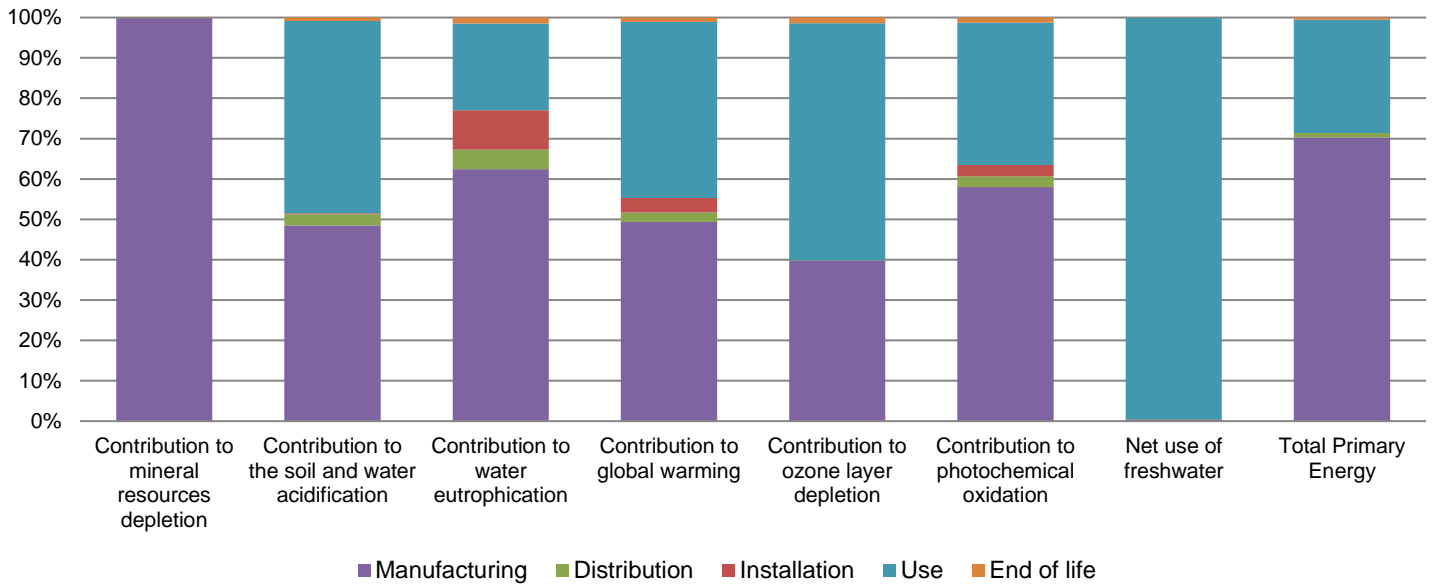
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 272203 g, consisting of Wood (98.4%), Cardboard (0.6%), PE Film (0.5%), Steel (Wooden screws) (0.4%) and Paper (0.1%). Product distribution optimised by setting up local distribution centres
Installation	The product does not require special installation procedure and requires little to no energy to install. The disposal of all the packaging materials are accounted for during the installation phase (including transport to disposal).
Use	The product does not require special maintenance operations.
End of life	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials This product contains devices, Relays - Commercial Reference of LUB*** Series Intelligent motor protection relays (250g) & Drives - Soft starters and variable speed drives (5 kg to 60 kg, depending on the ampacity) which is not integrated in the environmental impact indicators calculation but to be assembled in the product, that should be separated from the stream of waste so as to optimize end-of-life treatment. The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page Recyclability potential: 94% 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

Reference life time	20 years			
Product category	Other equipments - Passive product - continuous operation			
Installation elements	No special components needed			
Use scenario	Product dissipation is 56.95 W, loading rate is 30% and service uptime percentage is 100%			
Geographical representativeness	Europe			
Technological representativeness	BLOKSET IP 54 - 2500A is an assembled enclosures with busbar. It is designed to integrate and allow the installation of electric devices such as Circuit breakers (ACB, MCCB & MCB), Switch disconnectors, Busbars for connection as per the customer requirement for rated maximum current 2500A/1100A (Horizontal/Vertical).			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: Cikarang Factory, Indonesia	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		BLOKSET IP 54 - 2500A					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	3.65E-01	3.65E-01	0*	0*	4.25E-04	0*
Contribution to the soil and water acidification	kg SO ₂ eq	4.28E+01	2.07E+01	1.20E+00	1.11E-01	2.04E+01	3.65E-01
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	5.74E+00	3.58E+00	2.76E-01	5.61E-01	1.23E+00	8.60E-02
Contribution to global warming	kg CO ₂ eq	1.12E+04	5.53E+03	2.64E+02	3.94E+02	4.89E+03	1.20E+02
Contribution to ozone layer depletion	kg CFC11 eq	5.42E-04	2.15E-04	5.34E-07	5.40E-07	3.18E-04	7.55E-06
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	3.18E+00	1.84E+00	8.62E-02	8.81E-02	1.12E+00	3.95E-02

Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	1.78E+04	7.88E+01	0*	0*	1.77E+04	0*
Total Primary Energy	MJ	3.48E+05	2.44E+05	3.73E+03	1.37E+02	9.76E+04	1.84E+03




Optional indicators		BLOKSET IP 54 - 2500A					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.17E+05	5.54E+04	3.70E+03	2.60E+02	5.55E+04	1.67E+03
Contribution to air pollution	m ³	2.22E+06	1.97E+06	1.17E+04	8.71E+03	2.10E+05	1.30E+04
Contribution to water pollution	m ³	5.00E+05	2.39E+05	4.34E+04	1.40E+03	2.02E+05	1.39E+04
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	4.44E+02	4.44E+02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2.06E+04	8.13E+03	4.97E+00	4.82E+00	1.24E+04	2.06E+00
Total use of non-renewable primary energy resources	MJ	3.27E+05	2.36E+05	3.72E+03	1.32E+02	8.52E+04	1.84E+03
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.57E+04	3.29E+03	4.97E+00	4.82E+00	1.24E+04	2.06E+00
Use of renewable primary energy resources used as raw material	MJ	4.84E+03	4.84E+03	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.26E+05	2.35E+05	3.72E+03	1.32E+02	8.52E+04	1.84E+03
Use of non renewable primary energy resources used as raw material	MJ	8.37E+02	8.37E+02	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	3.41E+04	3.28E+04	0*	0*	0*	1.35E+03
Non hazardous waste disposed	kg	1.93E+04	7.34E+02	9.37E+00	2.94E+02	1.82E+04	5.67E+00
Radioactive waste disposed	kg	1.27E+01	5.21E-01	6.67E-03	6.66E-03	1.22E+01	8.69E-03
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1.46E+03	1.86E+02	0*	8.04E+01	0*	1.20E+03
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	5.45E-01	6.93E-02	0*	0*	0*	4.76E-01
Exported Energy	MJ	2.38E+02	0*	0*	2.38E+02	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.

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.

<i>Registration number :</i>	SCHN-00247-V01.01-EN	<i>Drafting rules</i>	PCR-ed3-EN-2015 04 02
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<i>Date of issue</i>	03/2021	<i>Information and reference documents</i>	www.pep-ecopassport.org
		<i>Validity period</i>	5 years
<i>Independent verification of the declaration and data, in compliance with ISO 14025 : 2010</i>			
<i>Internal</i>		<i>External</i>	X
<i>The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)</i>			
<i>PEP are compliant with XP C08-100-1 :2014</i>			
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »</i>			
			

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