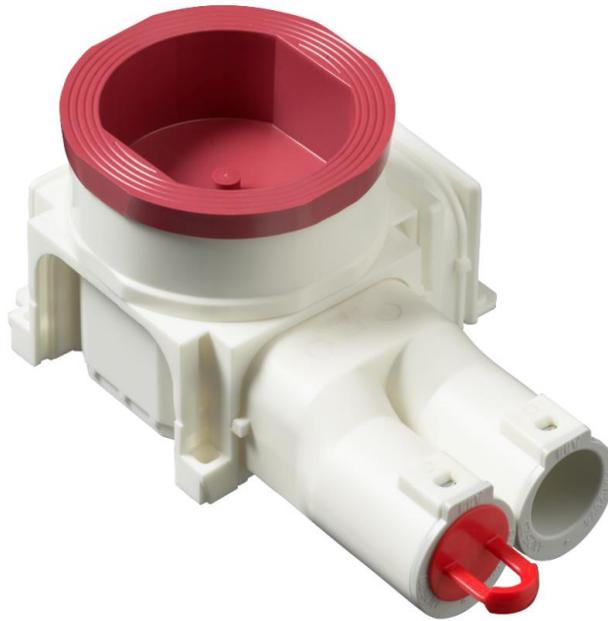


ABB BETON

# Product Environmental Profile

## Environmental Product Declaration



Document in compliance with ISO 14025: 2010 "Environmental labels and declarations. Type III environmental declarations"

ORGANIZATION		CONTACT INFORMATION			
ABB Oy, Wiring Accessories		ella.helynranta@fi.abb.com			
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## ABB Purpose & Embedding Sustainability

ABB is committed to continually promoting and embedding sustainability across its operations and value chain, aspiring to become a role model for others to follow. With its ABB Purpose, ABB is focusing on reducing harmful emissions, preserving natural resources and championing ethical and humane behavior.

Scan QR code for more information



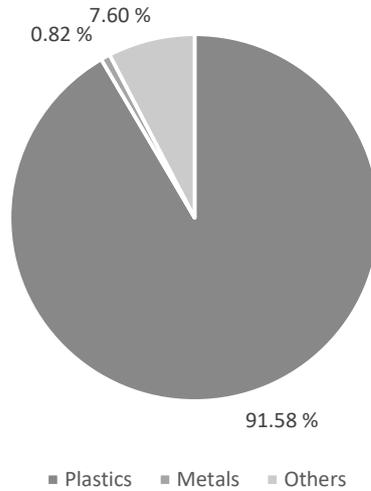
## General Information

<b>Reference product</b>	2TKA00004663 - AUB60
<b>Description of the product</b>	Mounting box AUB60 is especially designed for off site and on site casting applications. Box height is 68 mm. Box has two inlets with locking springs for 20 or 25 mm conduits. Additional inlets can be attached to other sides without need of any tooling. The mounting box includes a rotating, steplessly adjustable extension ring. The extension ring can be tilted 0-4°. Box combinations can be created without additional accessories and box has large inside space.
<b>Functional unit</b>	Protect persons during 20 years against direct contact with live parts and allow grouping monitoring, control, and protection devices in a single enclosure or a cabinet having the following dimensions 68 x 133 x 98 (mm) while protecting against the penetration of solid objects and liquids (IP3X) in accordance with the standard IEC 60529.
<b>Other products covered</b>	2TKA00004657 - AUB60H 2TKA00004671 - AUB67 2TKA00004648 - AUB67H 2TKA00005323 - AUB67M 2TKA00005413 - AUB60H-R 2TKA00005554 - AUB60H-16

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# Constituent materials



**Total weight of Reference product**

121,62 g including packaging materials

Plastics as % of weight		Metals as % of weight		Others as % of weight	
Description	Weight-%	Description	Weight-%	Description	Weight-%
Polypropylene	64.56	Steel	0.64	Carton	7.60
Polyamide 6 GF25	10.65	Carbon steel	0.18	-	-
Recycled PP	9.55	-	-	-	-
Polycarbonate	4.93	-	-	-	-
LDPE	1.89	-	-	-	-

Products in this range comply with the RoHS Directive 2011/65/EU (covering 2015/863 (EU)) and national legislation. The plastic materials used in products are also halogen free materials (IEC/61249-2-21) and recyclable. The recycled plastic used in the product is from post-consumer plastic waste, which is collected from Finnish households

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## Additional Environmental Information

<b>Manufacturing</b>	Manufactured at ISO 14001 certified production site
<b>Distribution</b>	Product distribution optimised by setting up local distribution centres.
<b>Installation</b>	The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials is accounted during the installation phase.
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process.
<b>Benefits and loads beyond the system boundaries</b>	Net benefits and loads calculated according to PCR ed 4 and formulas given in Annex G of the EN 50693



## Environmental impacts

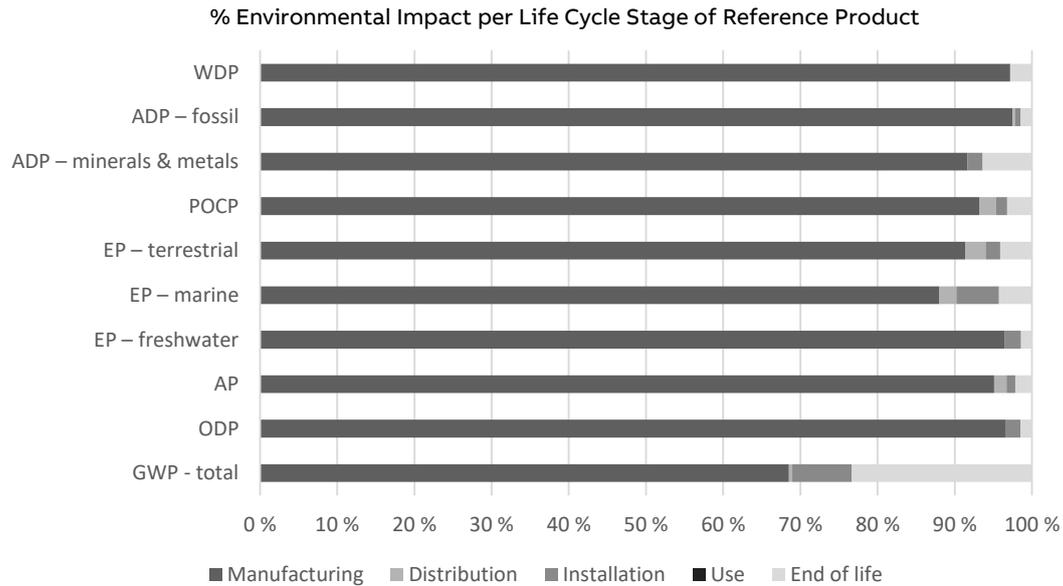
<b>Reference lifetime</b>	20 years
<b>Product category</b>	Unequipped enclosures and cabinets
<b>Installation elements</b>	No additional elements needed
<b>Use scenario</b>	Non applicable for unequipped enclosures and cabinets
<b>Geographical representativeness</b>	Nordics with emphasis on Sweden
<b>Technological representativeness</b>	The manufacturing processes considered are representative of the products production
<b>Software and database used</b>	Software: SimaPro version 9.4.0.2 Database: ecoinvent 3.8, Industry data 2.0, and ELCD

### Energy model used

<b>Manufacturing</b>	Electricity, low voltage {LT}  market for   Cut-off, S
<b>Installation</b>	Electricity, low voltage {SE}  market for   Cut-off, S
<b>Use</b>	-
<b>End of life</b>	Electricity, low voltage {SE}  market for   Cut-off, S

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## Common base of mandatory indicators



### Environmental impact indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life	Bene- fits
GWP-total	kg CO <sub>2</sub> eq.	7.58E-01	5.20E-01	3.38E-03	5.85E-02	0.00E+00	1.77E-01	-3.50E-02
GWP-fossil	kg CO <sub>2</sub> eq.	7.47E-01	5.56E-01	3.38E-03	1.13E-02	0.00E+00	1.77E-01	-3.55E-02
GWP-biogenic	kg CO <sub>2</sub> eq.	9.47E-03	-3.78E-02	-4.49E-07	4.72E-02	0.00E+00	3.50E-05	4.29E-04
GWP-luluc	kg CO <sub>2</sub> eq.	1.78E-03	1.66E-03	0.00E+00	4.05E-05	0.00E+00	7.58E-05	9.98E-06
GWP-fossil = Global Warming Potential fossil fuels GWP-biogenic = Global Warming Potential biogenic GWP-luluc = Global Warming Potential land use and land use change								
ODP	kg CFC-11 eq.	3.30E-08	3.19E-08	5.00E-12	6.39E-10	0.00E+00	4.93E-10	-3.91E-10
ODP = Depletion potential of the stratospheric ozone layer								
AP	H+ eq.	2.65E-03	2.52E-03	4.20E-05	3.00E-05	0.00E+00	5.73E-05	-1.64E-04
AP = Acidification potential, Accumulated Exceedance								
EP-freshwater	kg P eq.	1.26E-04	1.21E-04	1.24E-09	2.61E-06	0.00E+00	1.76E-06	-1.81E-06
EP-marine	kg N eq.	6.24E-04	5.49E-04	1.38E-05	3.43E-05	0.00E+00	2.67E-05	-3.81E-05
EP-terrestrial	mol N eq.	5.70E-03	5.20E-03	1.51E-04	1.06E-04	0.00E+00	2.35E-04	-3.31E-04
EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment EP-terrestrial = Eutrophication potential, Accumulated Exceedance								
POCP	kg NMVOC eq.	1.77E-03	1.65E-03	3.83E-05	2.50E-05	0.00E+00	5.68E-05	-1.17E-04
POCP = Formation potential of tropospheric ozone								
ADP-minerals & metals	kg Sb eq.	2.51E-06	2.30E-06	1.30E-10	4.85E-08	0.00E+00	1.60E-07	-7.99E-08
ADP-fossil	MJ	1.32E+01	1.29E+01	4.61E-02	9.34E-02	0.00E+00	1.90E-01	-9.73E-01
ADP-minerals & metals = Abiotic depletion potential for non-fossil resources ADP-fossil = Abiotic depletion for fossil resources potential								
WDP	m <sup>3</sup> e depr.	3.74E-01	3.64E-01	1.24E-05	1.24E-05	0.00E+00	1.05E-02	-6.29E-02
WDP = Water Deprivation potential								
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## Common base of mandatory indicators

### Inventory flows indicator – Resource use indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life	Bene- fits
PERE	MJ	1.48E+00	1.40E+00	5.18E-05	1.79E-02	0.00E+00	6.20E-02	-1.39E-02
PERM	MJ	5.66E-01	5.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	2.05E+00	1.97E+00	5.18E-05	1.79E-02	0.00E+00	6.20E-02	-1.39E-02
PENRE	MJ	8.13E+00	7.80E+00	4.61E-02	9.34E-02	0.00E+00	1.90E-01	-9.76E-01
PENRM	MJ	5.07E+00	5.07E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	1.32E+01	1.29E+01	4.61E-02	9.34E-02	0.00E+00	1.90E-01	-9.76E-01

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials  
 PERM = Use of renewable primary energy resources used as raw materials  
 PERT = Total Use of renewable primary energy resources  
 PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials  
 PENRM = Use of non-renewable primary energy resources used as raw materials  
 PENRT = Total Use of non-renewable primary energy resources

### Inventory flows indicator – Indicators describing the use of secondary materials, water, and energy resources

Indicator	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life	Bene- fits
SM	kg	2.95E-02	2.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m <sup>3</sup>	4.21E-03	3.82E-03	4.03E-07	5.31E-05	0.00E+00	3.40E-04	2.65E-04

SM = Use of secondary material  
 RSF = Use of renewable secondary fuels  
 NRSF = Use of non-renewable secondary fuels  
 FW = Use of net fresh water

### Inventory flows indicator – Waste category indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life	Bene- fits
Hazardous waste disposed	kg	7.61E-06	7.32E-06	0.00E+00	1.30E-07	0.00E+00	1.68E-07	-4.61E-07
Non-hazardous waste disposed	kg	8.95E-03	7.80E-03	1.15E-04	5.20E-04	0.00E+00	5.18E-04	1.19E-02
Radioactive waste disposed	kg	3.20E-05	2.92E-05	8.13E-08	4.29E-07	0.00E+00	2.30E-06	6.29E-06

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## Common base of mandatory indicators

### Inventory flows indicator – Output flow indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life	Bene- fits
Components for re-use	kg	5.10E-04	0.00E+00	0.00E+00	5.10E-04	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	3.85E-02	0.00E+00	0.00E+00	1.11E-02	0.00E+00	2.74E-02	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ	1.02E+00	0.00E+00	0.00E+00	1.74E-01	0.00E+00	8.49E-01	0.00E+00

### Inventory flow indicator – other indicators

Indicator	Unit	Total
Biogenic carbon content of the product	kg of C	0.00E+00
Biogenic carbon content of the associated packaging	kg of C	1.80E-02

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## Optional indicators

### Environmental indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life	Bene- fits
Total use of primary energy during the life cycle	MJ	1.52E+01	1.48E+01	4.62E-02	1.11E-01	0.00E+00	2.52E-01	-9.90E-01
Emissions of fine particles	inci- dence of dis- eases	2.35E-08	2.25E-08	2.70E-10	3.36E-10	0.00E+00	4.06E-10	-2.16E-09
Ionizing radiation, human health	kBq U235 eq.	1.09E-01	9.67E-02	7.95E-06	1.59E-03	0.00E+00	1.03E-02	-2.36E-05
Ecotoxicity (fresh water)	CTUe	4.79E+00	4.14E+00	2.23E-03	1.43E-01	0.00E+00	5.00E-01	2.65E-02
Human toxicity, carcinogenic effects	CTUh	3.44E-10	2.90E-10	5.73E-14	6.80E-12	0.00E+00	4.72E-11	-1.94E-11
Human toxicity, non-carcinogenic effects	CTUh	4.67E-09	3.71E-09	1.43E-12	1.54E-10	0.00E+00	8.03E-10	-2.74E-11
Impact related to land use/soil quality		5.70E+00	5.59E+00	0.00E+00	5.12E-02	0.00E+00	5.80E-02	-2.33E-02

### Other indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life	Bene- fits
No Other indicators used								

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For other products than the Reference product covered by this PEP, the environmental impacts for each phase of the lifecycle are obtained by multiplying the values of the Reference product by the following coefficients:

\* if the coefficient is "1", the impacts of the phase of the life cycle are assimilated to the Reference product, meaning that the impacts are unchanged in comparison to the Reference product

Product name	Manufacturing	Distribution	Installation	Use	End of life	Benefits
AUB67	1.23	1.66	1.70	1.00	1.65	2.27
AUB60H	1.13	1.11	1.17	1.00	1.09	1.15
AUB67H	1.41	2.03	2.46	1.00	1.86	2.77
AUB67M	1.28	1.74	1.82	1.00	1.72	2.13
AUB60H-R	1.13	1.11	1.17	1.00	1.09	1.16
AUB60H-16	1.16	1.15	1.17	1.00	1.15	1.27
-	-	-	-	-	-	-
-	-	-	-	-	-	-
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Verifier accreditation number:	VH32	Supplemented by:	PSR-0005-ed2-EN-2016 03 29
Date of issue:	05-2023	Information and reference documents:	www.pep-ecopassport.org
Validity period:	5 years	Independent verification of the declaration and data, in compliance with ISO 14025: 2010	
Internal <input type="radio"/>		External <input checked="" type="radio"/>	
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)			
PEPs are compliant with XP C08-100-1:2016 or EN 50693:2019 The components of the present PEP may not be compared with components from any other program.			
Document in compliance with ISO 14025: 2006 "Environmental labels and declarations. Type III environmental declarations"			



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## Environmental Impact Indicator Glossary

### Impact indicators

Indicator	Description	Unit
Global warming potential (GWP) - total	Indicator of potential global warming caused by emissions to air contributing to the greenhouse effect. The total global warming potential (GWP-total) is the sum of three sub-categories of climate change. GWP-total = GWP-fossil + GWP-biogenic + GWP- land use and land use change	kg CO <sub>2</sub> eq.
Ozone depletion (ODP)	Emissions to air that contribute to the destruction of the stratospheric ozone layer	kg CFC-11 eq.
Acidification of soil and water (A)	Acidification of soils and water caused by the release of certain gases to the atmosphere, such as nitrogen oxides and sulphur oxides	H+ eq.
Eutrophication (E)	Indicator of the contribution to eutrophication of water by the enrichment of the aquatic ecosystem with nutritional elements, e.g. industrial or domestic effluents, agriculture, etc. This indicator is divided to three: freshwater, marine and terrestrial.	kg P eq., kg N eq., mole N eq.
Photochemical ozone creation (POCP)	Indicator of emissions of gases that affect the creation of photochemical ozone in the lower atmosphere (smog) because of the rays of the sun.	kg NMVOC eq.
Depletion of abiotic resources – elements (ADPe)	Indicator of the depletion of natural non-fossil resources	kg Sb eq.
Depletion of abiotic resources – fossil fuels (ADPf)	The use of non-renewable fossil resources in an unsustainable way (e.g. from material to waste)	MJ (lower heating value)
Water Deprivation potential (WDP)	Deprivation-weighted water consumption. Assesses the potential of water deprivation, to either humans or ecosystems, building on the assumption that the less water remaining available per area, the more likely another user will be deprived.	m <sup>3</sup> e depr.

### Resource use indicators

Indicator	Description	Unit
Total use of primary energy	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials) + Total use of renewable primary energy re-sources (primary energy and primary energy resources used as raw materials)	MJ (lower heating value)

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