

# Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

# IRIS cabinet with variants (IRIS High cabinet 5A4, 2A4 doors lower, 3A4 glass doors upper, meas. w/o base 2100x1000x600, melamine)





The Norwegian EPD Foundation

**Owner of the declaration:** JSC Svenheim

#### Product:

IRIS cabinet with variants (IRIS High cabinet 5A4, 2A4 doors lower, 3A4 glass doors upper, meas. w/o base 2100x1000x600, melamine)

#### Declared unit:

1 pcs

This declaration is based on Product Category Rules: CEN Standard EN 15804:2012+A2:2019 serves as core PCR NPCR 026:2018 Part B for furniture **Program operator:** The Norwegian EPD Foundation

**Declaration number:** 

NEPD-6278-5542-EN

**Registration number:** 

NEPD-6278-5542-EN

Issue date: 15.03.2024

Valid to: 15.03.2029

EPD software: LCAno EPD generator ID: 90078



# **General information**

#### Product

IRIS cabinet with variants (IRIS High cabinet 5A4, 2A4 doors lower, 3A4 glass doors upper, meas. w/o base 2100x1000x600, melamine)

#### Program operator:

Post Box 5250 Majorstuen, 0303 Oslo, Norway The Norwegian EPD Foundation Phone: +47 23 08 80 00 web: post@epd-norge.no

## Declaration number:

NEPD-6278-5542-EN

#### This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR NPCR 026:2018 Part B for furniture

#### **Statement of liability:**

The owner of the declaration shall be liable for the underlying information and evidence. EPD Norway shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

#### **Declared unit:**

1 pcs IRIS cabinet with variants (IRIS High cabinet 5A4, 2A4 doors lower, 3A4 glass doors upper, meas. w/o base 2100x1000x600, melamine)

#### Declared unit (cradle to gate) with option:

A1-A3,A4,A5,C1,C2,C3,C4,D

#### **Functional unit:**

#### General information on verification of EPD from EPD tools:

Independent verification of data, other environmental information and the declaration according to ISO 14025:2010, § 8.1.3 and § 8.1.4. Verification of each EPD is made according to EPD-Norway's guidelines for verification and approval requiring that tools are i) integrated into the company's environmental management system, ii) the procedures for use of the EPD tool are approved by EPD-Norway, and iii) the process is reviewed annually by an independent third party verifier. See Appendix G of EPD-Norway's General Programme Instructions for further information on EPD tools

#### Verification of EPD tool:

Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPDNorway's procedures and guidelines for verification and approval of EPD tools.

Third party verifier:

Elisabet Amat, GREENIZE projects

(no signature required)

#### Owner of the declaration:

JSC Svenheim Contact person: Linas Vosylius Phone: +370 657 52044 e-mail: linas@svenheim.lt

#### Manufacturer:

JSC Svenheim

#### Place of production:

JSC Svenheim Naujoji str.132 LT-62175 Alytus, Lithuania

#### Management system:

ISO 14001, Certificate No. 81858-2010-AE-LUT-FINAS ISO 9001, Certificate No. 81860-2010-AQ-LTU-FINAS Accredited unit: DNV Certification OY/AB, Finland

#### Organisation no:

LT100004040014

Issue date:

15.03.2024

Valid to: 15.03.2029

#### Year of study:

2023

#### **Comparability:**

EPD of construction products may not be comparable if they not comply with EN 15804 and seen in a building context.

#### Development and verification of EPD:

The declaration is created using EPD tool lca.tools ver EPD2022.03, developed by LCA.no. The EPD tool is integrated in the company's management system, and has been approved by EPD Norway.

Developer of EPD: Aiste Vieraityte

Reviewer of company-specific input data and EPD: Linas Vosylius

Approved:

Håkon Hauan, CEO EPD-Norge



# Product

#### **Product description:**

School cabinets are available in white, grey, birch or beech laminate, different high-pressure laminate colors for fronts are optional. By default, cabinets are manufactured without locks, but they can be equipped with cylinder locks or espagnolette. Sockets are with adjustable screws. Doors have a wide opening angle of 270 degrees.

#### **Product specification**

Office furniture, IRIS High cabinet 5A4, 2A4 doors lower, 3A4 glass doors upper, meas. w/o base 2100x1000x600, melamine

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Glass	7,94	6,84	0,00	0,00
Glue for wood	0,10	0,08	0,00	0,00
Metal - Aluminium	0,10	0,09	0,00	0,00
Metal - Steel	0,78	0,67	0,00	0,00
Plastic - Acrylonitrile butadiene styrene (ABS)	0,82	0,70	0,00	0,00
Plastic - Melamine	1,72	1,48	0,00	0,00
Wood - Chipboard	96,41	83,08	0,00	0,00
Wood - Medium Density Fibreboard (MDF)	8,19	7,06	0,00	0,00
Total	116,05		0,00	

Packaging	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Packaging - Cardboard	0,29	23,99	0,00	0,00
Recycled cardboard	0,90	76,01	0,90	100,00
Total incl. packaging	117,24		0,90	

#### Technical data:

Total weight 117,2 kg including packaging.

#### Market:

Europe

#### **Reference service life, product**

15

Reference service life, building

#### LCA: Calculation rules

#### **Declared unit:**

1 pcs IRIS cabinet with variants (IRIS High cabinet 5A4, 2A4 doors lower, 3A4 glass doors upper, meas. w/o base 2100x1000x600, melamine)

#### **Cut-off criteria:**

All major raw materials and all the essential energy is included. The production processes for raw materials and energy flows with very small amounts (less than 1%) are not included. These cut-off criteria do not apply for hazardous materials and substances.

#### Allocation:

The allocation is made in accordance with the provisions of EN 15804. Incoming energy and water and waste production in-house is allocated equally among all products through mass allocation. Effects of primary production of recycled materials is allocated to the main product in which the material was used. The recycling process and transportation of the material is allocated to this analysis.

#### Data quality:

Specific data for the product composition are provided by the manufacturer. They represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on registered EPDs according to EN 15804, Ostfold Research databases, ecoinvent and other LCA databases. The data quality of the raw materials in A1 is presented in the table below.

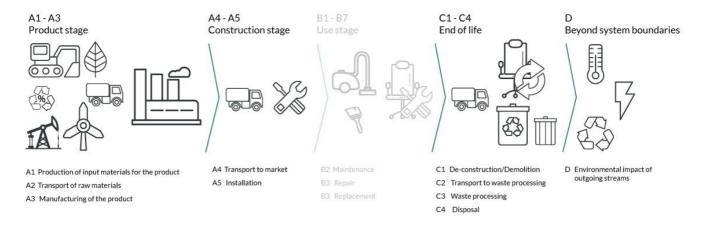
Materials	Source	Data quality	Year
Glass	ecoinvent 3.6	Database	2019
Glue for wood	ecoinvent 3.6	Database	2019
Metal - Aluminium	ecoinvent 3.6	Database	2019
Metal - Steel	ecoinvent 3.6	Database	2019
Packaging - Cardboard	Modified ecoinvent 3.6	Database	2019
Plastic - Acrylonitrile butadiene styrene (ABS)	ecoinvent 3.6	Database	2019
Plastic - Melamine	ecoinvent 3.6	Database	2019
Recycled cardboard	Modified ecoinvent 3.6	Database	2019
Wood - Chipboard	ecoinvent 3.6	Database	2019
Wood - Medium Density Fibreboard (MDF)	ecoinvent 3.6	Database	2019



# System boundaries (X=included, MND=module not declared, MNR=module not relevant)

	Pro	oduct stag	je		uction on stage				Use stage					End of I	ife stage		Beyond the system boundaries
Raw	materials	Transport	Manufacturing	Transport	Assembly	Use	Mainten an ce	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De- construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery- Recycling-potential
A1		A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Х		Х	Х	Х	Х	MND	MND	MND	MND	MND	MND	MND	Х	Х	Х	Х	Х

#### System boundary:



#### Additional technical information:

Further information can be found at https://svenheim.no/.



# LCA: Scenarios and additional technical information

The following information describe the scenarios in the different modules of the EPD.

Transport from production place to user (A4)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Ship, Coastal Barge (km)	71,0 %	490	0,011	l/tkm	5,39
Truck, 16-32 tonnes, EURO 6 (km)	36,7 %	1426	0,043	l/tkm	61,32
Transport to waste processing (C2)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, 16-32 tonnes, EURO 6 (km)	36,7 %	85	0,043	l/tkm	3,66
Waste processing (C3)	Unit	Value			
Waste treatment per kg Glass, incineration with fly ash extraction (kg)	kg	7,94			
Waste treatment per kg Hazardous waste, incineration (kg)	kg	0,10			
Waste treatment per kg Non-hazardous waste, incineration with fly ash extraction - C3 (kg)	kg	1,72			
Waste treatment per kg Scrap aluminium, incineration with fly ash extraction (kg)	kg	0,10			
Waste treatment per kg Scrap steel, incineration with fly ash extraction (kg)	kg	0,78			
Waste treatment per kg Wood, incineration with fly ash extraction (kg)	kg	104,60			
Waste, materials to recycling (kg)	kg	0,27			
Disposal (C4)	Unit	Value			
Landfilling of ashes and residues from incineration of Scrap aluminium (kg)	kg	0,09			
Landfilling of ashes and residues from incineration of Scrap steel (kg)	kg	0,51			
Landfilling of ashes from incineration of Glass, process of ashes and residues (kg)	kg	7,94			
Landfilling of ashes from incineration of Hazardous waste, from incineration (kg)	kg	0,02			
Landfilling of ashes from incineration of Non- hazardous waste, process per kg ashes and residues - C4 (kg)	kg	0,41			
Landfilling of ashes from incineration of Wood,	kg	1,29			
process per kg ashes and residues (kg)					
process per kg ashes and residues (kg) Benefits and loads beyond the system boundaries (D)	Unit	Value			
Benefits and loads beyond the system	Unit MJ	<b>Value</b> 78,86			
Benefits and loads beyond the system boundaries (D)					
Benefits and loads beyond the system boundaries (D) Substitution of electricity, in Norway (MJ) Substitution of primary aluminium with net scrap	MJ	78,86			



# LCA: Results

The LCA results are presented below for the declared unit defined on page 2 of the EPD document.

Enviro	nmental impact									
	Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
P	GWP-total	kg CO <sub>2</sub> -eq	-8,49E+01	3,00E+01	0	0	1,63E+00	1,82E+02	1,56E-01	-7,55E+00
P	GWP-fossil	kg CO <sub>2</sub> -eq	1,19E+02	3,00E+01	0	0	1,63E+00	5,57E+00	1,56E-01	-7,30E+00
P	GWP-biogenic	kg CO <sub>2</sub> -eq	-2,05E+02	1,34E-02	0	0	6,74E-04	1,76E+02	1,03E-04	-1,49E-02
P	GWP-luluc	kg CO <sub>2</sub> -eq	2,28E-01	1,47E-02	0	0	5,79E-04	3,29E-04	3,83E-05	-2,40E-01
Ò	ODP	kg CFC11 -eq	1,44E-05	6,64E-06	0	0	3,69E-07	1,62E-07	3,66E-08	-5,04E-01
Ê	AP	mol H+ -eq	8,06E-01	1,05E-01	0	0	4,68E-03	1,74E-02	8,93E-04	-5,90E-02
	EP-FreshWater	kg P -eq	6,54E-03	2,52E-04	0	0	1,30E-05	3,04E-05	1,72E-06	-6,36E-04
	EP-Marine	kg N -eq	1,43E-01	2,71E-02	0	0	9,25E-04	8,18E-03	3,09E-04	-1,90E-02
	EP-Terrestial	mol N -eq	2,04E+00	3,01E-01	0	0	1,04E-02	8,68E-02	3,44E-03	-2,05E-01
	РОСР	kg NMVOC -eq	6,06E-01	9,94E-02	0	0	3,96E-03	2,14E-02	9,84E-04	-5,73E-02
<b>***</b>	ADP-minerals&metals <sup>1</sup>	kg Sb-eq	2,03E-03	7,77E-04	0	0	4,49E-05	7,26E-06	2,01E-06	-7,37E-05
A	ADP-fossil <sup>1</sup>	MJ	2,13E+03	4,47E+02	0	0	2,46E+01	1,22E+01	2,77E+00	-1,03E+02
%	WDP <sup>1</sup>	m <sup>3</sup>	1,36E+04	4,55E+02	0	0	2,38E+01	1,78E+01	9,99E+00	-1,27E+03

GWP-total = Global Warming Potential total; 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 = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; 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 = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption

"Reading example: 9,0 E-03 = 9,0\*10-3 = 0,009" \*INA Indicator Not Assessed

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator

**Remarks to environmental impacts** 



Addition	Additional environmental impact indicators											
In	dicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D		
	PM	Disease incidence	1,86E-05	1,73E-06	0	0	9,96E-08	1,94E-07	1,52E-08	-3,48E-06		
(m) B	IRP <sup>2</sup>	kgBq U235 -eq	9,56E+00	1,96E+00	0	0	1,08E-01	2,78E-02	1,15E-02	-6,36E-01		
	ETP-fw <sup>1</sup>	CTUe	3,06E+03	3,32E+02	0	0	1,82E+01	3,73E+01	2,27E+00	-5,56E+02		
46.* ****	HTP-c <sup>1</sup>	CTUh	4,70E-07	0,00E+00	0	0	0,00E+00	4,39E-09	9,50E-11	-1,15E-08		
48	HTP-nc <sup>1</sup>	CTUh	1,89E-06	3,34E-07	0	0	1,99E-08	1,90E-07	3,01E-09	-4,88E-07		
6	SQP <sup>1</sup>	dimensionless	9,22E+03	3,16E+02	0	0	1,72E+01	2,11E+00	6,51E+00	-6,62E+02		

PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Soil Quality (dimensionless)

"Reading example: 9,0 E-03 = 9,0\*10-3 = 0,009" \*INA Indicator Not Assessed

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator

2. This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.



Resource use										
	ndicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
i S	PERE	MJ	1,06E+03	6,80E+00	0	0	3,52E-01	5,89E-01	7,25E-02	-6,12E+02
	PERM	MJ	1,07E+03	0,00E+00	0	0	0,00E+00	-9,10E+02	0,00E+00	0,00E+00
° <b>∓</b> ₃	PERT	MJ	2,12E+03	6,80E+00	0	0	3,52E-01	-9,10E+02	7,25E-02	-6,12E+02
Ð	PENRE	MJ	2,10E+03	4,47E+02	0	0	2,46E+01	1,24E+01	2,77E+00	-1,03E+02
.Ås	PENRM	MJ	4,22E+01	0,00E+00	0	0	0,00E+00	-4,54E+00	0,00E+00	0,00E+00
IA	PENRT	MJ	2,14E+03	4,47E+02	0	0	2,46E+01	7,82E+00	2,77E+00	-1,03E+02
<u></u>	SM	kg	9,27E-01	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
1	RSF	MJ	1,18E+01	2,67E-01	0	0	1,26E-02	1,35E-02	1,84E-03	-9,67E-02
Ū.	NRSF	MJ	2,39E+00	8,86E-01	0	0	4,51E-02	0,00E+00	4,27E-01	-3,59E+01
<u>%</u>	FW	m <sup>3</sup>	2,75E+00	5,05E-02	0	0	2,63E-03	2,37E-02	2,54E-03	-7,39E-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; SENRE = Use of non renewable primary energy resources; SENRE = Use of secondary materials; PENRT = Total use of non renewable primary energy resources; SM = Use of secondary materials; RERT = Total use of non renewable primary energy resources; SM = Use of secondary materials; RERT = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Net use of fresh water

"Reading example: 9,0 E-03 = 9,0\*10-3 = 0,009" \*INA Indicator Not Assessed



End of life - Was	ste									
Inc	dicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
ā	HWD	kg	1,12E+00	2,35E-02	0	0	1,27E-03	0,00E+00	9,81E+00	-5,77E-03
Ū	NHWD	kg	1,81E+01	2,02E+01	0	0	1,20E+00	9,76E+00	4,76E-01	-2,48E+00
	RWD	kg	9,18E-03	3,04E-03	0	0	1,68E-04	0,00E+00	1,67E-05	-5,22E-04

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed

"Reading example: 9,0 E-03 = 9,0\*10-3 = 0,009" \*INA Indicator Not Assessed

End	of life - Outpu	t flow									
	Indicat	tor	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
	$\otimes$	CRU	kg	0,00E+00	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	$\langle \mathfrak{S} \rangle$	MFR	kg	1,88E+01	0,00E+00	0	0	0,00E+00	2,74E-01	0,00E+00	0,00E+00
	DF	MER	kg	8,81E+00	0,00E+00	0	0	0,00E+00	1,15E+02	0,00E+00	0,00E+00
	5D	EEE	MJ	6,14E+00	0,00E+00	0	0	0,00E+00	7,29E+01	0,00E+00	0,00E+00
	Þ1	EET	MJ	9,29E+01	0,00E+00	0	0	0,00E+00	1,10E+03	0,00E+00	0,00E+00

CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported energy electrical; EET = Exported energy thermal

"Reading example: 9,0 E-03 = 9,0\*10-3 = 0,009" \*INA Indicator Not Assessed

Biogenic Carbon Content	Biogenic Carbon Content								
Indicator	Unit	At the factory gate							
Biogenic carbon content in product	kg C	5,58E+01							
Biogenic carbon content in accompanying packaging	kg C	5,50E-01							

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO2



## **Additional requirements**

#### Greenhouse gas emissions from the use of electricity in the manufacturing phase

National production mix from import, low voltage (production of transmission lines, in addition to direct emissions and losses in grid) of applied electricity for the manufacturing process (A3).

Electricity mix	Data source	Amount	Unit
Electricity, European average (kWh)	ecoinvent 3.6	428,03	g CO2-eq/kWh

#### **Dangerous substances**

The product contains no substances given by the REACH Candidate list.

#### Indoor environment

#### **Additional Environmental Information**

#### **Key Environmental Indicators**

Key environmental indicators	Unit	A1-A3	A4	A1-C4	A1-D
GWPtotal	kg CO <sub>2</sub> -eq	-84,86	30,01	128,59	121,03
Total energy consumption	MJ	3171,69	455,43	3668,37	2918,29
Amount of recycled materials	%	0,77			

Additional environmental impact indicators required in NPCR Part A for construction products									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWPIOBC	kg CO <sub>2</sub> -eq	1,55E+02	3,00E+01	0	0	1,63E+00	3,72E+00	1,61E-01	-7,59E+00

GWP-IOBC: Global warming potential calculated according to the principle of instantaneous oxidation. In order to increase the transparency of biogenic carbon contribution to climate impact, the indicator GWP-IOBC is required as it declares climate impacts calculated according to the principle of instantaneous oxidation. GWP-IOBC is also referred to as GWP-GHG in context to Swedish public procurement legislation.

#### **Variants and Options**

Key environmental indicators (A1-A3) for variants of this EPD							
Variants	Weight (kg)	GWPtotal (kg CO <sub>2</sub> -eq)	Total energy consumption (MJ)	Amount of recycled materials (%)			
IRIS High cabinet 5A4, 2A4 doors lower, 3A4 glass doors upper, meas. w/o base 2100x1000x600, melamine	117,20	-84,86	3171,69	0,77			
IRIS High cabinet 5A4 H2100 W1000 D600, 2A4 doors lower, 3A4 glass doors upper, body MFC, front HPL- laminate, socket same as body, hinges, handle	119,90	-81,57	3327,07	1,28			
IRIS High cabinet 5A4 H2100 W1000 D600, 2A4 glass doors lower, 3A4 glass doors upper, body MFC, front MFC, socket same as body, std. shelf, 270gr. hinges, handle G03, grey, without lock	117,30	-73,39	3103,50	0,77			
IRIS High cabinet 5A4 H2100 W1000 D600, 2A4 glass doors lower, 3A4 glass doors upper, body birch MFC, front HPL-laminate	118,90	-71,38	3198,29	1,08			
IRIS Mattress cabinet 5A4, door 5A4, meas. w/o base 2100x600x600, melamine	126,70	-116,81	3432,92	0,52			
IRIS Mattress cabinet 5A4 H2100 B600 D600, door 5A4, body MFC, front HPL-laminate, socket same as body	129,60	-111,85	3632,51	1,01			
IRIS Mattress storage H-1400 W-1000 D-350, 8 section (matress stored vertical), body MFC, front HPL- laminate, base MFC	90, 50	-77,90	2450,69	1,37			
IRIS Mattress storage H-1210 W-1230 D-350, 8 sections (matress stored horizontal), body MFC, front HPL- laminate, base MFC	93,90	-76,46	2667,54	1,40			
IRIS High Post sorting cabinet 5A4 H2100 W1000 D470, 2A4 doors lower,pull-out shelf, 18post sorting, body MFC, front MFC, socket same as body	128,90	-111,62	3563,76	0,63			
IRIS High Post sorting cabinet 5A4 H2100 W1000 D470, 2A4 doors lower,pull-out shelf, 18post sorting, body MFC, front HPL-laminate, socket same as body, 270gr. hinges, handle	130,80	- 109, 34	3671,58	0,96			
IRIS Book shelf High, meas. w/o base 2100x1000x450, melamine	73,60	-63,71	2049,89	1,08			
IRIS Book shelf High, meas. w/o base 2100x1000x450, melamine	73,60	-63,71	2049,89	1,08			
IRIS open reol 3A4 with 9 room, H1310 B1205 D400, body MFC, socket same as body, without drawers	59,60	-48,24	1772,06	0,99			
IRIS open reol 3A4 with 9 room, H1310 B1205 D400, body MFC, lockable rubber wheels, without drawers	60,20	-44,27	1786,29	0,98			
IRIS High cabinet 5A4 H2100 W1000 D470, doors 5A4, body MFC, front MFC, socket same as body	101,10	-84,28	2884,84	0,80			
IRIS PUPIL'S DESK, 1200 mm, height 710, tabletop HPL	23,00	3,06	608,42	1,91			



# Bibliography

ISO 14025:2010 Environmental labels and declarations - Type III environmental declarations - Principles and procedures.

ISO 14044:2006 Environmental management - Life cycle assessment - Requirements and guidelines.

EN 15804:2012+A2:2019 Environmental product declaration - Core rules for the product category of construction products. ISO 21930:2017 Sustainability in buildings and civil engineering works - Core rules for environmental product declarations of construction

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