ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025 / ISO 21930

Hot Dip Galvanised Steel profile
Aulis Lundell Oy

EPD HUB, HUB-2798
Published on 05.03.2025, last updated on 05.03.2025, valid until 04.03.2030

Created with One Click LCA

GENERAL INFORMATION

MANUFACTURER

Manufacturer	Aulis Lundell Oy
Address	Tarrankuja 2, 08500, Lohja, FI
Contact details	myynti@aulislundell.com
Website	www.aulislundell.com

EPD STANDARDS, SCOPE AND VERIFICATION

Program operator	EPD Hub, hub@epdhub.com
Reference standard	EN 15804+A2:2019 and ISO 14025
PCR	EPD Hub Core PCR Version 1.1, 5 Dec 2023
Sector	Construction product
Category of EPD	Third party verified EPD
Scope of the EPD	Cradle to gate with options, A4-A5, and modules C1-C4, D
EPD author	Kim Juslin, Aulis Lundell Oy
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☑ External verification
EPD verifier	Elisabet Amat, as an authorized verifier acting for EPD Hub Limited

The manufacturer has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programs may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804 and if they are not compared in a building context.

PRODUCT

Product name	Hot Dip Galvanised Steel profile
Additional labels	Gypsteel profiles, Partition wall profiles, Suspended ceiling GK-profiles, Koolari hat furrings, Thermo profiles, Raised Floor, Lightweight purline Z C U, Bent profiles, Liune Profile
Place of production	Finland
Period for data	1.4.2023-31.3.2024
Averaging in EPD	Multiple products
Variation in GWP-fossil for A1-A3	-0,5 %

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 kg of hot-dip galvanized steel profile
Declared unit mass	1 kg
GWP-fossil, A1-A3 ($kgCO_2e$)	2,54E+00
GWP-total, A1-A3 ($kgCO_2e$)	2,52E+00
Secondary material, inputs (%)	2.6
Secondary material, outputs (%)	85
Total energy use, A1-A3 (kWh)	9.09
Net freshwater use, A1-A3 (m^3)	0

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Aulis Lundell Ltd is a leading Scandinavian manufacturer of cold rolled LGS profiles, sustainable offsite modular buildings and prefabricated panelized systems.
The company is a Finnish family business and has delivered LUNDELL-PROFILE products manufactured from hot dip galvanized steel plate by roll forming technology since 1980.
Our history spans more than 40 years back and is built on continuous development and improvement of competence, constant investment in innovative and productive technologies and cooperation with technical universities, research institutes and in-depth cooperation with industrial partners.

PRODUCT DESCRIPTION

Lundell-Profile Galvanised Steel Profiles are used in various contexts, from load-bearing steel framing, purlins and non-loadind interior profilesystems. The profiles are rigorously tested to reflect the needs of their industry application, whether that is to achieve building regulation fire resistance within a through-wall system or quality assurance. Galvanised Steel Profiles are available 0,4-2,00 mm in thickness in a range of complex custom or industry standard profiles, with coatings including high performance zinc to ensure material longevity.

Further information can be found at www.aulislundell.com.

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	100	Euro
Minerals	0	-
Fossil materials	0	-
Bio-based materials	0	-

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	0
Biogenic carbon content in packaging, kg C	0,007

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 kg of hot-dip galvanized steel profile
Mass per declared unit	1 kg
Functional unit	-
Reference service life	-

SUBSTANCES, REACH - VERY HIGH CONCERN

The product does not contain any REACH SVHC substances in amounts greater than 0,1 % (1000 ppm).

PRODUCT LIFE-CYCLE

SYSTEM BOUNDARY

This EPD covers the life-cycle modules listed in the following table.

Product stage			Assembly stage		Use stage							End of life stage				Beyond the system boundaries		
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D		
x	x	x	x	x	MND	MND	MND	MND	MND	MND	MND	x	x	x	x	x		
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction/ demolition	Transport	Waste processing	Disposal	Reuse	Recovery	Recycling

Modules not declared = MND. Modules not relevant = MNR

MANUFACTURING AND PACKAGING (A1-A3)

The environmental impacts considered for the product stage cover the manufacturing of raw materials used in the production as well as packaging materials and other ancillary materials. Also, fuels used by machines, and handling of waste formed in the production processes at the manufacturing facilities are included in this stage. The study also considers the material losses occurring during the manufacturing processes as well as losses during electricity transmission.

The baseplate is made from hot-dip galvanized low-carbon steel. The steel coils are manufactured mainly in Europe and delivered to the manufacturers site. The Raw material contains 2,6 % secondary materials. The coils are cut and rollformed to form the product in its final size and shape. The finished product is packed and prepared for distribution. The manufacturing process requires electricity and fuels for powering the production equipment. Wastewater treatment is also considered. A Bundel, where wood and polyethylene packaging film (or metal straps) are used as packaging materials, is used for transporting the baseplate to the dedicated market places.

TRANSPORT AND INSTALLATION (A4-A5)

Transportation impacts occurred from final products delivery to construction site (A4) cover fuel direct exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions.

Average distance of transportation from production plant to retailers site is assumed as 97,6 km and the transportation method is assumed to be lorry for domestic (Finland) market. Average distance of transportation from production plant to retailers site is assumed as 446,4 km by land and 125,3 km by sea and the transportation methods are assumed to be lorry and ferry for overseas (Scandinavia) market. Vehicle capacity utilization volume factor is assumed to be 1 which means full load. In reality, it may vary but as role of transportation emissions in total results is small, the variety in load is assumed to be negligible. To be conservative, empty returns are included in this study as implemented through an average load factor in the Ecoinvent transport datapoints. Transportation does not cause losses as product is packaged properly. Environmental impacts from installation into the building include generation of waste packaging materials (A5) and release of biogenic carbon dioxide from packing wood. The impacts of material production, its

processing and its disposal as installation waste are also assessed. Electricity consumption in the installation process for the assembly is considered, too.

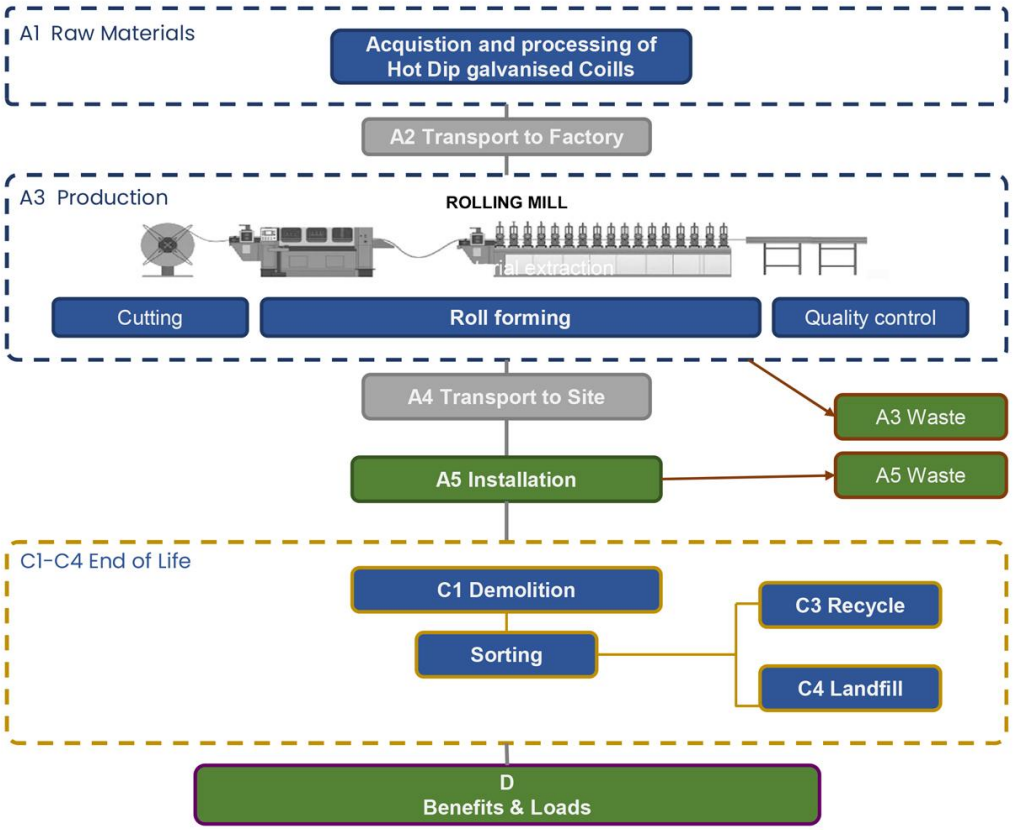
PRODUCT USE AND MAINTENANCE (B1-B7)

This EPD does not cover the use phase.
Air, soil, and water impacts during the use phase have not been studied.

PRODUCT END OF LIFE (C1-C4, D)

The product is considered to be dismantled by a power tool and energy use is estimated to be the same as in installation. It is assumed that the steel waste is collected separately and transported to the waste treatment facility. Waste treatment scenarios considered according to World Steel: 85% is send to recycling and 15% to landfill. Transportation distance to waste treatment plant is assumed to be 50 km and the transportation method is assumed to be lorry (C2). Module C3 accounts for energy and resource inputs for sorting and treating of steel for recycling. Landfilled material is included in module C4. Due to the material recovery potential of the product and material and energy recovery potential of its packaging, recycled raw materials lead to avoided virgin material production and the energy recovered from incineration replaces electricity and heat from primary sources. Benefits and loads from incineration and recycling are included in Module D.

MANUFACTURING PROCESS



LIFE-CYCLE ASSESSMENT

CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the reference standard and the applied PCR. The study does not exclude any hazardous materials or substances. The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes, for which data is available for, are included in the calculation. There is no neglected unit process more than 1% of total mass or energy flows. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass.

ALLOCATION, ESTIMATES AND ASSUMPTIONS

Allocation is required if some material, energy, and waste data cannot be measured separately for the product under investigation. All allocations are done as per the reference standards and the applied PCR. In this study, allocation has been done in the following ways:

Data type	Allocation
Raw materials	No allocation
Packaging material	Allocated by mass or volume
Ancillary materials	Allocated by mass or volume
Manufacturing energy and waste	Allocated by mass or volume

AVERAGES AND VARIABILITY

Type of average	Multiple products
Averaging method	Averaged by shares of total mass
Variation in GWP-fossil for A1-A3	-0,5 %

Range of products included:
Gypsteel profiles, Partition wall profiles, Suspended ceiling GK-profiles, Koolari hat furrings, Thermo profiles, Raised Floor, Lightweight purline Z C U, Bent profiles, Liune Profile

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. The EPD Generator uses Ecoinvent v3.10.1 and One Click LCA databases as sources of environmental data.

ENVIRONMENTAL IMPACT DATA

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – total[1)]	kg CO_2e	2,49E+00	2,32E-02	3,51E-03	2,52E+00	1,15E-02	3,39E-02	MND	MND	MND	MND	MND	MND	MND	3,61E-03	5,38E-03	1,86E-02	9,37E-04	-1,16E+00
GWP – fossil	kg CO_2e	2,49E+00	2,32E-02	2,86E-02	2,54E+00	1,15E-02	4,60E-03	MND	MND	MND	MND	MND	MND	MND	3,60E-03	5,38E-03	1,85E-02	9,36E-04	-1,15E+00
GWP – biogenic	kg CO_2e	0,00E+00	0,00E+00	-2,51E-02	-2,51E-02	0,00E+00	2,93E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-4,90E-03
GWP – LULUC	kg CO_2e	7,09E-04	8,20E-06	3,15E-05	7,49E-04	5,14E-06	1,06E-05	MND	MND	MND	MND	MND	MND	MND	3,69E-07	2,41E-06	1,53E-05	5,35E-07	-1,38E-04
Ozone depletion pot.	kg $CFC\text{-}_{11}$e	1,20E-13	4,62E-10	7,46E-09	7,92E-09	1,69E-10	6,67E-11	MND	MND	MND	MND	MND	MND	MND	5,52E-11	7,95E-11	1,25E-10	2,71E-11	-3,83E-09
Acidification potential	mol H^+e	7,01E-03	7,26E-05	3,09E-04	7,39E-03	4,53E-05	2,15E-05	MND	MND	MND	MND	MND	MND	MND	3,25E-05	1,84E-05	8,21E-05	6,64E-06	-4,55E-03
EP-freshwater[2)]	kg Pe	2,29E-06	1,54E-06	7,56E-06	1,14E-05	8,80E-07	3,15E-06	MND	MND	MND	MND	MND	MND	MND	1,04E-07	4,19E-07	7,27E-06	7,70E-08	-4,93E-04
EP-marine	kg Ne	1,73E-03	2,45E-05	6,50E-05	1,82E-03	1,44E-05	5,31E-06	MND	MND	MND	MND	MND	MND	MND	1,51E-05	6,03E-06	3,88E-05	2,53E-06	-1,01E-03
EP-terrestrial	mol Ne	1,87E-02	2,66E-04	1,02E-03	2,00E-02	1,57E-04	3,61E-05	MND	MND	MND	MND	MND	MND	MND	1,65E-04	6,56E-05	2,16E-04	2,76E-05	-1,11E-02
POCP ("smog")[3)]	kg NMVOCe	5,13E-03	1,14E-04	2,13E-04	5,46E-03	6,17E-05	1,19E-05	MND	MND	MND	MND	MND	MND	MND	4,93E-05	2,70E-05	6,43E-05	9,90E-06	-3,77E-03
ADP-minerals & metals[4)]	kg Sbe	1,76E-04	7,59E-08	1,13E-07	1,76E-04	3,15E-08	4,54E-08	MND	MND	MND	MND	MND	MND	MND	1,29E-09	1,50E-08	3,34E-07	1,49E-09	-1,11E-05
ADP-fossil resources	MJ	2,92E+01	3,26E-01	8,91E-01	3,04E+01	1,66E-01	8,17E-02	MND	MND	MND	MND	MND	MND	MND	4,72E-02	7,81E-02	1,38E-01	2,30E-02	-1,05E+01
Water use[5)]	m^3e depr.	1,60E-01	1,60E-03	8,37E-02	2,45E-01	8,12E-04	2,24E-03	MND	MND	MND	MND	MND	MND	MND	1,18E-04	3,86E-04	4,35E-03	6,63E-05	-1,92E-01

1) GWP = Global Warming Potential; 2) EP = Eutrophication potential. Required characterisation method and data are in kg P-eq. Multiply by 3,07 to get PO4e; 3) POCP = Photochemical ozone formation; 4) ADP = Abiotic depletion potential; 5) EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

ADDITIONAL (OPTIONAL) ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Particulate matter	Incidence	0,00E+00	1,82E-09	4,23E-09	6,05E-09	1,13E-09	1,07E-10	MND	MND	MND	MND	MND	MND	MND	9,25E-10	5,39E-10	1,47E-09	1,51E-10	-7,60E-08
Ionizing radiation[6]	kBq U235e	0,00E+00	4,16E-04	2,81E-02	2,85E-02	1,43E-04	2,12E-03	MND	MND	MND	MND	MND	MND	MND	2,09E-05	6,80E-05	1,99E-03	1,44E-05	4,24E-02
Ecotoxicity (freshwater)	CTUe	0,00E+00	4,28E-02	3,25E-01	3,68E-01	2,32E-02	1,37E-02	MND	MND	MND	MND	MND	MND	MND	2,60E-03	1,10E-02	2,31E-01	1,93E-03	-2,81E+00
Human toxicity, cancer	CTUh	0,00E+00	3,96E-12	8,52E-12	1,25E-11	1,90E-12	1,33E-12	MND	MND	MND	MND	MND	MND	MND	3,71E-13	8,88E-13	2,12E-11	1,73E-13	-1,84E-10
Human tox. non-cancer	CTUh	0,00E+00	2,05E-10	2,58E-10	4,63E-10	1,06E-10	6,90E-11	MND	MND	MND	MND	MND	MND	MND	5,87E-12	5,06E-11	5,27E-10	3,97E-12	-9,06E-09
SQP[7]	-	0,00E+00	1,94E-01	2,69E+00	2,88E+00	1,64E-01	2,23E-02	MND	MND	MND	MND	MND	MND	MND	3,30E-03	7,87E-02	7,23E-01	4,52E-02	-3,32E+00

6) EN 15804+A2 disclaimer for Ionizing radiation, human health. 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; 7) SQP = Land use related impacts/soil quality.

USE OF NATURAL RESOURCES

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy[8]	MJ	1,91E+00	5,63E-03	4,32E-01	2,35E+00	2,25E-03	-1,35E-01	MND	MND	MND	MND	MND	MND	MND	2,99E-04	1,07E-03	2,62E-02	2,22E-04	-6,91E-01
Renew. PER as material	MJ	0,00E+00	0,00E+00	2,04E-01	2,04E-01	0,00E+00	-2,04E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,20E-02
Total use of renew. PER	MJ	1,91E+00	5,63E-03	6,36E-01	2,55E+00	2,25E-03	-3,39E-01	MND	MND	MND	MND	MND	MND	MND	2,99E-04	1,07E-03	2,62E-02	2,22E-04	-6,49E-01
Non-re. PER as energy	MJ	2,92E+01	3,26E-01	8,64E-01	3,04E+01	1,66E-01	5,39E-02	MND	MND	MND	MND	MND	MND	MND	4,72E-02	7,81E-02	1,38E-01	2,30E-02	-1,05E+01
Non-re. PER as material	MJ	0,00E+00	0,00E+00	1,82E-02	1,82E-02	0,00E+00	-1,82E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,48E-02
Total use of non-re. PER	MJ	2,92E+01	3,26E-01	8,82E-01	3,04E+01	1,66E-01	3,57E-02	MND	MND	MND	MND	MND	MND	MND	4,72E-02	7,81E-02	1,38E-01	2,30E-02	-1,04E+01
Secondary materials	kg	2,60E-02	1,49E-04	1,56E-04	2,63E-02	7,06E-05	1,70E-05	MND	MND	MND	MND	MND	MND	MND	1,96E-05	3,32E-05	2,65E-04	5,78E-06	6,33E-01
Renew. secondary fuels	MJ	8,51E-23	1,89E-06	2,49E-05	2,68E-05	8,83E-07	1,46E-07	MND	MND	MND	MND	MND	MND	MND	5,12E-08	4,22E-07	2,06E-05	1,20E-07	-9,47E-05
Non-ren. secondary fuels	MJ	1,00E-21	0,00E+00	0,00E+00	1,00E-21	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water	m^3	4,89E-04	4,39E-05	6,76E-04	1,21E-03	2,43E-05	5,21E-05	MND	MND	MND	MND	MND	MND	MND	3,12E-06	1,15E-05	7,04E-05	2,39E-05	-2,55E-03

8) PER = Primary energy resources.

END OF LIFE – WASTE

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	6,35E-02	4,68E-04	1,32E-03	6,53E-02	2,79E-04	2,36E-04	MND	MND	MND	MND	MND	MND	MND	5,25E-05	1,32E-04	1,96E-03	2,54E-05	-3,79E-01
Non-hazardous waste	kg	7,60E-02	9,87E-03	1,15E-01	2,01E-01	5,15E-03	3,96E-02	MND	MND	MND	MND	MND	MND	MND	7,15E-04	2,45E-03	1,11E-01	5,80E-04	-2,96E+00
Radioactive waste	kg	5,54E-04	1,03E-07	1,07E-05	5,65E-04	3,50E-08	5,44E-07	MND	MND	MND	MND	MND	MND	MND	5,12E-09	1,67E-08	5,09E-07	3,52E-09	1,10E-05

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	kg	0,00E+00	0,00E+00	7,11E-02	7,11E-02	0,00E+00	3,77E-03	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	8,50E-01	0,00E+00	0,00E+00
Materials for energy rec	kg	0,00E+00	0,00E+00	1,19E-04	1,19E-04	0,00E+00	2,90E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,15E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML / ISO 21930

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Global Warming Pot.	kg CO_2e	2,42E+00	2,31E-02	2,98E-02	2,47E+00	1,14E-02	4,83E-03	MND	MND	MND	MND	MND	MND	MND	3,59E-03	5,35E-03	2,98E-02	9,28E-04	-1,14E+00
Ozone depletion Pot.	kg CFC_{-11}e	2,12E-13	3,67E-10	5,07E-09	5,44E-09	1,35E-10	5,55E-11	MND	MND	MND	MND	MND	MND	MND	4,37E-11	6,34E-11	1,03E-10	2,15E-11	-4,22E-09
Acidification	kg SO_2e	5,63E-03	5,52E-05	2,26E-04	5,91E-03	3,48E-05	1,81E-05	MND	MND	MND	MND	MND	MND	MND	2,29E-05	1,40E-05	6,47E-05	4,91E-06	-3,66E-03
Eutrophication	kg PO_4^3e	6,05E-04	1,40E-05	8,19E-05	7,01E-04	7,75E-06	2,71E-06	MND	MND	MND	MND	MND	MND	MND	5,34E-06	3,41E-06	2,72E-05	1,56E-06	-6,76E-04
POCP (“smog”)	kg C_2H_4e	5,21E-04	5,26E-06	1,34E-05	5,40E-04	2,88E-06	1,08E-06	MND	MND	MND	MND	MND	MND	MND	1,71E-06	1,25E-06	7,85E-06	4,65E-07	-5,77E-04
ADP-elements	kg Sbe	1,76E-04	7,42E-08	1,12E-07	1,76E-04	3,07E-08	4,52E-08	MND	MND	MND	MND	MND	MND	MND	1,26E-09	1,46E-08	3,32E-07	1,46E-09	-1,11E-05
ADP-fossil	MJ	2,78E+01	3,19E-01	8,80E-01	2,90E+01	1,64E-01	4,43E-02	MND	MND	MND	MND	MND	MND	MND	4,68E-02	7,70E-02	1,04E-01	2,28E-02	-1,13E+01

ENVIRONMENTAL IMPACTS – GWP-GHG - THE INTERNATIONAL EPD SYSTEM

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG[9)]	kg CO_2e	2,49E+00	2,32E-02	2,86E-02	2,54E+00	1,15E-02	4,61E-03	MND	MND	MND	MND	MND	MND	MND	3,61E-03	5,38E-03	1,86E-02	9,37E-04	-1,15E+00

9) This indicator includes all greenhouse gases excluding biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product as defined by IPCC AR 5 (IPCC 2013). In addition, the characterisation factors for the flows - CH4 fossil, CH4 biogenic and Dinitrogen monoxide - were updated in line with the guidance of IES PCR 1.2.5 Annex 1. This indicator is identical to the GWP-total of EN 15804:2012+A2:2019 except that the characterization factor for biogenic CO2 is set to zero.

VERIFICATION STATEMENT

VERIFICATION PROCESS FOR THIS EPD

This EPD has been verified in accordance with ISO 14025 by an independent, third-party verifier by reviewing results, documents and compliancy with reference standard, ISO 14025 and ISO 14040/14044, following the process and checklists of the program operator for:

- This Environmental Product Declaration
- The Life-Cycle Assessment used in this EPD
- The digital background data for this EPD

Why does verification transparency matter? Read more online
This EPD has been generated by One Click LCA EPD generator, which has been verified and approved by the EPD Hub.

THIRD-PARTY VERIFICATION STATEMENT

I hereby confirm that, following detailed examination, I have not established any relevant deviations by the studied Environmental Product Declaration (EPD), its LCA and project report, in terms of the data collected and used in the LCA calculations, the way the LCA-based calculations have been carried out, the presentation of environmental data in the EPD, and other additional environmental information, as present with respect to the procedural and methodological requirements in ISO 14025:2010 and reference standard.

I confirm that the company-specific data has been examined as regards plausibility and consistency; the declaration owner is responsible for its factual integrity and legal compliance.

I confirm that I have sufficient knowledge and experience of construction products, this specific product category, the construction industry, relevant standards, and the geographical area of the EPD to carry out this verification.

I confirm my independence in my role as verifier; I have not been involved in the execution of the LCA or in the development of the declaration and have no conflicts of interest regarding this verification.

Elisabet Amat, as an authorized verifier acting for EPD Hub Limited.
05.03.2025

APPENDIX 1

Profile models **The weight is accurate as of the date of publication; any adjustments are detailed in the data sheet.*

Alakatto / Suspended ceiling GK Profiles									
Product	kg/100jm	Product	kg/100jm	Product	kg/100jm				
GK1	54	GK-2	32	L 30/40	28				
GK1 x 0,7	69			L 50/40	36				
				L 50/50	40				

Asennuslattiat / Raised Floor Profiles									
Product	kg/100jm	Product	kg/100jm	Product	kg/100jm	Product	kg/100jm		
KC 100 x 1,2	184	SKH 21	97	J 21/60 x 1,0	85	L 50/50 x 1,0	80		
KC 100 x 1,5	231	HTLR 30/40 x 1,0	104	J 30/60 x 1,0	98	L 60/40 x 1,0	80		
KC 150 x 1,5	294	HTLR 30/40 x 1,5	157	J 35/60 x 1,0	90				
		HTLR 35/40 x 1,2	136	J 50/60 x 1,0					
		HTLR 35/40 x 1,5	170						
		HTLR 50/50 x 1,0	141						
		HTLR 50/50 x 1,2	169						
		HTLR 50/50 x 1,5	212						
		HTLR 50/50 x 2,0	283						

Väliseinäprofiilit / Partition wall Profiles									
Product	**kg/100jm**	**Product**	**kg/100jm**	**Product**	**kg/100jm**	**Product**	**kg/100jm**		
LR 42/40	52	SK 42/30	37	SK 42/37	42	SK 42/58	57		
LR 50/40	56			SK 50/37	45	SK 50/58	60		
LR 66/40	62	SK 66/30	45	SK 66/37	51	SK 66/58	65		
LR 70/40	63	SK 70/30	47	SK 70/37	52	SK 70/58	67		
LR 95/40	73	SK 95/30	56	SK 95/37	61	SK 95/58	76		
LR 100/40	75			SK 100/37	63	SK 100/58	76		
LR 120/40	83	SK 120/30	65	SK 120/37	70	SK 120/58	84		
LR 125/40	85			SK 125/37	72	SK 125/58	87		
LR 140/40	91			SK 140/37	76	SK 140/58	90		
LR 145/40	93			SK 145/37	76	SK 145/58	94		
LR 150/40	95			SK 150/37	81	SK 150/58	96		
Product	**kg/100jm**	**Product**	**kg/100jm**	**Product**	**kg/100jm**	**Product**	**kg/100jm**		
SK 66/80	82			SK 66/120	122	SK 66/140	138		
SK 70/80	83			SK 70/120	124	SK 70/140	132		
SK 95/80	92	SK 95/100	118	SK 95/120	134	SK 95/140	150		
SK 120/80	101	SK 120/100	122	SK 120/120	144	SK 120/140	160		
				SK 150/120	156	SK 150/140	172		
Product	**kg/100jm**	**Product**	**kg/100jm**	**Product**	**kg/100jm**	**Product**	**kg/100jm**		
FR 45 x 1,0	117	SK 45/58 x 1,2	155	HS 29/29	15				
FR 66/55 x 1,0	148			L 25/25	20				
FR 66/55 x 1,2	178	SK 66/58 x 1,2	174	L 30/40	28				
FR 66/55 x 1,5	222			L 50/40	36				
FR 70/55 x 1,0	151			L 50/50	40				
FR 70/55 x 1,2	181	SK 70/58 x 1,2	178						
FR 70/55 x 1,5	227								
FR 95/55 x 1,0	171								
FR 95/55 x 1,2	205	SK 95/58 x 1,2	253						
FR 95/55 x 1,5	257								
FR 100/50 x 1,0	168	SK 100/50 x 1,0	152						
FR 100/50 x 1,2	202	SK 100/50 x 1,2	182						
FR 100/50 x 1,5	252	SK 100/50 x 1,5	228						
FR 120/50 x 1,0	184	SK 120/50 x 1,0	168						
FR 120/50 x 1,2	221	SK 120/50 x 1,2	202						
FR 120/50 x 1,5	276	SK 120/50 x 1,5	252						

KOOLARI HTL Profiles									
Product	kg/100jm	Product	kg/100jm	Product	kg/100jm	Product	kg/100jm		
HTL 16/70 x 0,7	74			HTL ruode 16/70x0,7	70	HTL UNR 21/70x1,2	182		
HTL 16/70 x 1,0	106			HTL ruode 16/70x1,0	102	HTL UNR 25/60x1,2	192		
HTL 16/70 x 1,2	127			HTL Ruode 16/70x1,2	123	HTL UNR 30/60x1,2	202		
HTL 16/70 x 1,5	158					Product	kg/100jm		
HTL 16/100 x 0,7	92			HTL Ruode 16/100x0,7	88	HTLN 25/70x1,0	122		
HTL 16/100 x 1,0	131			HTL Ruode 16/100x1,0	128	HTLN 25/70x1,2	146		
HTL 16/100 x 1,2	157			HTL Ruode 16/100x1,2	154	HTLN 30/60x1,0	122		
HTL 16/100 x 1,5	197								
HTL 21/40 x 0,7	68			HTL Ruode 21/40x0,7	56				
HTL 21/40 x 1,0	97	HTL palokatko 21/40	91	HTL Ruode 21/40x1,0	86				
HTL 21/40 x 1,2	116			HTL Ruode 21/40x1,2	105				
HTL 21/40 x 1,5	145			HTL Ruode 21/40x1,5	134				
HTL 25/70x0,7	85			HTL ruode 25/70x0,7	74				
HTL 25/70x1,0	122			HTL ruode 25/70x1,0	110				
HTL 25/70x1,2	146			HTL ruode 25/70x1,2	135				
HTL 25/70x1,5	182			HTL ruode 25/70x1,5	171				
HTL 25/100x0,7	102			HTL ruode 25/100x0,7	91				
HTL 25/100x1,0	146	HTL palokatko 25/70	115	HTL Ruode 25/100x1,0	134				
HTL 25/100x1,2	175			HTL Ruode 25/100x1,2	163				
HTL 25/100x1,5	218			HTL Ruode 25/100x1,5	207				
HTL 30/40 x 0,7	74			HTL ruode 30/40x0,7	63				
HTL 30/40 x 1,0	106	HTL palokatko 30/40	99	HTL ruode 30/40x1,0	94				
HTL 30/40 x 1,2	127			HTL ruode 30/40x1,2	115				
HTL 30/40 x 1,5	158			HTL ruode 30/40x1,5	147				
HTL 30/60 x 0,7	85			HTL ruode 30/60x0,7	74				
HTL 30/60 x 1,0	122			HTL ruode 30/60x1,0	110				
HTL 30/60 x 1,2	146			HTL ruode 30/60x1,2	135				
HTL 30/60 x 1,5	182			HTL ruode 30/60x1,5	171				
HTL 35/40 x 0,7	80			HTL ruode 35/40x0,7	69				
HTL 35/40 x 1,0	114	HTL palokatko 35/40	108	HTL ruode 35/40x1,0	103				
HTL 35/40 x 1,2	137			HTL ruode 35/40x1,2	126				
HTL 35/40 x 1,5	172			HTL ruode 35/40x1,5	160				
HTL 50/50 x 0,7	100								
HTL 50/50 x 1,0	142	HTL palokatko 50/50	137	HTL Ruode 50/50x1,0	132				
HTL 50/50 x 1,2	171			HTL Ruode 50/50x1,2	161				
HTL 50/50 x 1,5	214			HTL Ruode 50/50x1,5	204				
HTL 50/50 x 2,0	285								

KEVYTORRET / Lightweight purline Profiles									
Product	kg/100jm	Product	kg/100jm	Product	kg/100jm	Product	kg/100jm	Product	kg/100jm
C 100 x 0,70	118			U 100 x 0,70	106	C 300 x 1,00	328	U 300 x 1,00	308
C 100 x 1,00	168	Z 100 x 1,00	168	U 100 x 1,00	152	C 300 x 1,20	394	U 300 x 1,20	370
C 100 x 1,20	202	Z 100 x 1,20	202	U 100 x 1,20	182	C 300 x 1,50	492	U 300 x 1,50	462
C 100 x 1,50	252	Z 100 x 1,50	252	U 100 x 1,50	228	C 300 x 2,00	656	U 300 x 2,00	616
C 100 x 2,00	336	Z 100 x 2,00	336	U 100 x 2,00	304	C 350 x 2,00	736	U 350 x 2,00	696
C 120 x 0,70	120			U 120 x 0,70	118	C 400 x 2,00	816	U 400 x 2,00	776
C 120 x 1,00	171	Z 120 x 1,00	184	U 120 x 1,00	168				
C 120 x 1,20	205	Z 120 x 1,20	221	U 120 x 1,20	202				
C 120 x 1,50	257	Z 120 x 1,50	276	U 120 x 1,50	252				
C 120 x 2,00	342	Z 120 x 2,00	368	U 120 x 2,00	336				
C 125 x 0,70	132			U 125 x 0,70	120				
C 125 x 1,00	188	Z 125 x 1,00	188	U 125 x 1,00	171				
C 125 x 1,20	226	Z 125 x 1,20	226	U 125 x 1,20	171				
C 125 x 1,50	282	Z 125 x 1,50	282	U 125 x 1,50	205				
C 125 x 2,00	376	Z 125 x 2,00	376	U 125 x 2,00	257				
C 150 x 0,70	146			U 150 x 0,70	376				
C 150 x 1,00	208	Z 150 x 1,00	208	U 150 x 1,00	188				
C 150 x 1,20	250	Z 150 x 1,20	250	U 150 x 1,20	226				
C 150 x 1,50	312	Z 150 x 1,50	312	U 150 x 1,50	282				
C 150 x 2,00	416	Z 150 x 2,00	416	U 150 x 2,00	376				
C 175 x 1,00	228	Z 175 x 1,00	228	U 175 x 1,00	208				
C 175 x 1,20	274	Z 175 x 1,20	274	U 175 x 1,20	250				
C 175 x 1,50	342	Z 175 x 1,50	342	U 175 x 1,50	312				
C 175 x 2,00	456	Z 175 x 2,00	456	U 175 x 2,00	416				
C 200 x 1,00	248	Z 200 x 1,00	248	U 200 x 1,00	228				
C 200 x 1,20	298	Z 200 x 1,20	298	U 200 x 1,20	274				
C 200 x 1,50	372	Z 200 x 1,50	372	U 200 x 1,50	342				
C 200 x 2,00	496	Z 200 x 2,00	496	U 200 x 2,00	456				
C 225 x 1,00	268	Z 225 x 1,00	268	U 225 x 1,00	248				
C 225 x 1,20	322	Z 225 x 1,20	322	U 225 x 1,20	298				
C 225 x 1,50	402	Z 225 x 1,50	402	U 225 x 1,50	372				
C 225 x 2,00	536	Z 225 x 2,00	536	U 225 x 2,00	496				
C 250 x 1,00	288	Z 250 x 1,00	288	U 250 x 1,00	268				
C 250 x 1,20	346	Z 250 x 1,20	346	U 250 x 1,20	322				
C 250 x 1,50	432	Z 250 x 1,50	432	U 250 x 1,50	402				
C 250 x 2,00	576	Z 250 x 2,00	576	U 250 x 2,00	536				

Termoprofiilit / Thermo Profiles									
Product	kg/100jm	Product	kg/100jm	Product	kg/100jm	Product	kg/100jm	Product	kg/100jm
RY 100 x 0,75	106			SKY 100 x 0,75	95				
RY 100 x 1,00	152	ZR 100 x 1,00	152	SKY 100 x 1,00	136	RL Lämpökulma 100	102		
RY 100 x 1,25	182	ZR 100 x 1,25	182	SKY 100 x 1,25	163				
RY 100 x 1,50	228	ZR 100 x 1,50	228	SKY 100 x 1,50	204				
RY 100 x 2,00	303	ZR 100 x 2,0	303	SKY 100 x 2,00	271				
RY 120 x 0,75	117			SKY 120 x 0,75	108				
RY 120 x 1,00	168	ZR 120 x 1,00	168	SKY 120 x 1,00	155				
RY 120 x 1,25	201	ZR 120 x 1,20	201	SKY 120 x 1,25	186				
RY 120 x 1,50	252	ZR 120 x 1,50	252	SKY 120 x 1,50	232				
RY 120 x 2,00	335	ZR 120 x 2,00	335	SKY 120 x 2,00	310				
RY 125 x 0,75	120			SKY 125 x 0,75	111				
RY 125 x 1,00	172	ZR 125 x 1,00	172	SKY 125 x 1,00	159	RL Lämpökulma 125	124	RT Lämpöraina 125	84
RY 125 x 1,25	206	ZR 125 x 1,20	206	SKY 125 x 1,25	191				
RY 125 x 1,50	258	ZR 125 x 1,50	258	SKY 125 x 1,50	238				
RY 125 x 2,00	343	ZR 125 x 2,00	343	SKY 125 x 2,00	318				
RY 150 x 0,75	130			SKY 150 x 0,75	116				
RY 150 x 1,00	186	ZR 150 x 1,00	186	SKY 150 x 1,00	166	RL Lämpökulma 150	138		
RY 150 x 1,25	223	ZR 150 x 1,20	223	SKY 150 x 1,25	199				
RY 150 x 1,50	279	ZR 150 x 1,50	279	SKY 150 x 1,50	249				
RY 150 x 2,00	372	ZR 150 x 2,00	372	SKY 150 x 2,00	332				
RY 175 x 0,75	141			SKY 175 x 0,75	127				
RY 175 x 1,00	201	ZR 175 x 1,00	201	SKY 175 x 1,00	181	RL Lämpökulma 175	153	RT Lämpöraina 175	113
RY 175 x 1,25	241	ZR 175 x 1,2	241	SKY 175 x 1,25	217				
RY 175 x 1,50	301	ZR 175 x 1,5	301	SKY 175 x 1,50	271				
RY 175 x 2,00	412	ZR 175 x 2,0	412	SKY 175 x 2,00	372				
RY 200 x 0,75	155			SKY 200 x 0,75	141				
RY 200 x 1,00	221	ZR 200 x 1,00	221	SKY 200 x 1,00	201	RL Lämpökulma 200	171	RT Lämpöraina 200	133
RY 200 x 1,25	265	ZR 200 x 1,20	265	SKY 200 x 1,25	241				
RY 200 x 1,50	331	ZR 200 x 1,50	331	SKY 200 x 1,50	301				
RY 200 x 2,00	452	ZR 200 x 2,00	452	SKY 200 x 2,00	412				

Termoprofiilit / Thermo Profiles									
Product	kg/100jm	Product	kg/100jm	Product	kg/100jm	Product	kg/100jm	Product	kg/100jm
RY 225 x 1,00	241	ZR 225 x 1,00	241	SKY 225 x 1,00	221	RL Lämpökulma 225	190		
RY 225 x 1,25	289	ZR 225 x 1,20	289	SKY 225 x 1,25	265				
RY 225 x 1,50	361	ZR 225 x 1,50	361	SKY 225 x 1,50	331				
RY 225 x 2,00	492	ZR 225 x 2,00	492	SKY 225 x 2,00	452				
RY 250 x 1,0	261	ZR 250 x 1,00	261	SKY 250 x 1,00	241				
RY 250 x 1,25	313	ZR 250 x 1,20	313	SKY 250 x 1,25	289				
RY 250 x 1,50	391	ZR 250 x 1,50	391	SKY 250 x 1,50	361				
RY 250 x 2,00	532	ZR 250 x 2,00	532	SKY 250 x 2,00	492				
RY 275 x 1,00	281			SKY 275 x 1,00	261				
RY 275 x 1,25	337			SKY 275 x 1,2	313				
RY 275 x 1,5	421			SKY 275 x 1,5	391				
RY 275 x 2,0	572			SKY 275 x 2,0	532				
RY 300 x 1,0	301			SKY 300 x 1,0	281	RL Lämpökulma 300	253		
RY 300 x 1,25	361			SKY 300 x 1,25	337				
RY 300 x 1,50	451			SKY 300 x 1,50	421				
RY 300 x 2,00	612			SKY 300 x 2,00	572				
RY 350 x 1,00	341			SKY 350 x 1,00	321				
RY 350 x 1,25	409			SKY 350 x 1,25	385				
RY 350 x 1,50	511			SKY 350 x 1,50	481				
RY 350 x 2,00	692			SKY 350 x 2,00	652				

Gypsteel Profiles									
Product	**kg/100jm**	**Product**	**kg/100jm**	**Product**	**kg/100jm**	**Product**	**kg/100jm**		
ELPR 42/40	50	SK 42/30 Gypsteel	37	SK 42/37 Gypsteel	42	SK 42/58 Gypsteel	57		
ELPR 50/40	53			SK 50/37 Gypsteel	45				
ELPR 66/40	60	SK 66/30 Gypsteel	45	SK 66/37 Gypsteel	51	SK 66/58 Gypsteel	65		
ELPR 70/40	61			SK 70/37 Gypsteel	52	SK 70/58 Gypsteel	67		
ELPR 95/40	70	SK 95/30 Gypsteel	56	SK 95/37 Gypsteel	61	SK 95/58 Gypsteel	76		
ELPR 100/40	75			SK 100/37 Gypsteel	63				
ELPR 120/40	80	SK 120/30 Gypsteel	65	SK 120/37 Gypsteel	70	SK 120/58 Gypsteel	85		
ELPR 125/40	82			SK 125/37 Gypsteel	72				
ELPR 145/40	89					SK 140/58 Gypsteel	92		
ELPR 150/40	91			SK 150/37 Gypsteel	81	SK 150/58 Gypsteel	96		
Product	**kg/100jm**	**Product**	**kg/100jm**	**Product**	**kg/100jm**	**Product**	**kg/100jm**		
SLIM 45/40	64	XR 66	69	GK1 Gypsteel	49	ATR 25x30x60	85		
		XR 70	70	GK-C Gypsteel	32				
		XR 95	80						
		XR 120	89						

Asiakasprofiilit / Customer Profiles									
Product	**kg/100jm**	**Product**	**kg/100jm**	**Product**	**kg/100jm**	**Product**	**kg/100jm**		
BFL 08-10	48	GFR 45	140	GFS 60/45x1,2	154	PHL	48		
BFL 10-12	48	GFR 66	163	GFS 60/66x1,2	174	HR 60/60	56		
BFL 12-14	49	GFR 70	167	GFS 60/70x1,2	178				
BFL 14-16	49	GFR 95	191	GFS 60/95x1,2	202				
BFL 16-18	49	GFR 120	215	GFS 60/120x1,2	226				
BFL 18-20	49								
BFL 20-22	49								
BFL 22-24	49								
Product	**kg/100jm**	**Product**	**kg/100jm**	**Product**	**kg/100jm**				
TSK 66/80	256	TSKD 66/80	218	TSKD-3 66/80	238				
TSK 95/80	279	TSKD 95/80	239	TSKD-3 95/80	262				
TSK 120/80	298	TSKD 120/80	262						
TSK 145/80	319								
TSK 160/80	331								
Product	**kg/100jm**	**Product**	**kg/100jm**					**Product**	**kg/100jm**
FL 11-2400	522	RFUT 050	81					MASTER 170/70/50 ZN	335
FL 12-2400	676	RFUT 080	103						
FL 13-2400	868	RFUT 100	122						
		RFUT 120	146						
Product	**kg/100jm**	**Product**	**kg/100jm**	**Product**	**kg/100jm**	**Product**	**kg/100jm**	**Product**	**kg/100jm**
IU 50	77	IUT 50	70	IUS 80	95	IUST 80	85	L60/60x2,0ZN S350	186
IU 80	104	IUT 80	94	IUS 100	117	IUST 100	111	L130/60x2,0ZN S350	296
IU 100	122	IUT 100	112	IUS 120	136	IUST 120	127	L150/60x2,0ZN S350	328
IU 120	141	IUT 120	122	IUS 150	164	IUST 150	145	L170/60x2,0ZN S350	360
IU 150	171	IUT 150	151	IUS 175	185	IUST 175	148		
IU 175	192	IUT 175	166	IUS 200	215	IUST 200	159		
IU 200	220	IUT 200	187	IUS 240	254	IUST 240	220		
IU 240	261	IUT 240	228	IUS 300	313	IUST 300	278		
IU 300	319	IUT 300	286						
Product	**kg/100jm**	**Product**	**kg/100jm**	**Product**	**kg/100jm**	**Product**	**kg/100jm**		
		MIT 50	96	MU 50	180	MUT 50	180		
MI 80	130	MIT 80	130	MU 80	212	MUT 80	212		
MI 100	154	MIT 100	154	MU 100	236	MUT 100	236		
MI 120	175	MIT 120	175	MU 120	260	MUT 120	260		
MI 150	212	MIT 150	212	MU 150	298	MUT 150	297		
MI 175	238	MIT 175	237	MU 175	326	MUT 175	326		
MI 200	272	MIT 200	272	MU 200	358	MUT 200	357		
MI 240	323	MIT 240	323	MU 240	408	MUT 240	408		
MI 300	396	MIT 300	396	MU 300	482	MUT 300	482		