

LIFE CYCLE ASSESSMENT SUMMARY SHEET

CUSTOM ONE WAY PALLET

Type: Single-use wooden industrial packaging

Scenario: **with internal sawmill**

Geographical scope: Italy/Europe



Product characteristics

Mass: 13,739 kg

- Spruce: 13,512 kg (98,37 %)

- Steel: 0,227 kg (1,64 %)

Dimension: L1200 x W800 x H129 mm

System boundaries

Cradle-to-grave approach including:

- Upstream (A1–A2): raw material supply and transport
- Core (A3): production processes
- Downstream (A4, C3): distribution and end-of-life

The use phase is excluded.

Environmental Results – Climate Change

Results*	Upstream	Core	Downstream	Total
GWP Fossil	1,31E+00	9,45E-01	-6,20E-02	2,19E+00
GWP Biogenic	-1,77E+01	1,06E-02	-4,42E-04	-1,77E+01
GWP Land-use	3,23E-03	1,90E-03	6,85E-04	5,81E-03
GWP Total	-1,64E+01	9,58E-01	-6,17E-02	-1,55E+01

*all the values are in kg CO2 eq.

End of life

- Wood (Rilegno report, 2023)
 - 93% recycled, 4% waste to energy, 3% compost
- Steel
 - 90% recycled

LCA Methodology and PCR

- ISO 14040:2006
- ISO 14044:2006
- PCR Packaging 2019:13

LIFE CYCLE ASSESSMENT SUMMARY SHEET

CUSTOM ONE WAY PALLET

Type: Single-use wooden industrial packaging

Scenario: **without internal sawmill**

Geographical scope: Italy/Europe



Product characteristics

Mass: 11,910 kg

- Spruce: 8,074 kg (67,78 %)

- Chipboard blocks: 3,609 kg (30,31 %)

- Steel: 0,227 kg (1,91 %)

Dimension: L1200 x W800 x H129 mm

System boundaries

Cradle-to-grave approach including:

- Upstream (A1–A2): raw material supply and transport
- Core (A3): production processes
- Downstream (A4, C3): distribution and end-of-life

The use phase is excluded.

Environmental Results – Climate Change

Results*	Upstream	Core	Downstream	Total
GWP Fossil	2,38E+00	9,52E-01	1,17E-01	3,45E+00
GWP Biogenic	-1,81E+01	5,50E-03	1,17E-05	-1,81E+01
GWP Land-use	7,70E-03	6,30E-03	1,65E-03	1,56E-02
GWP Total	-1,57E+01	9,64E-01	1,19E-01	-1,46E+01

*all the values are in kg CO2 eq.

End of life

- Wood (Rilegno report, 2023)
 - 93% recycled, 4% waste to energy, 3% compost
- Steel
 - 90% recycled

LCA Methodology and PCR

- ISO 14040:2006
- ISO 14044:2006
- PCR Packaging 2019:13