

The Company

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Nefab LogPak has a self-conducted environmental program. The main ambitions are continual improvements and evaluations of main suppliers in conjunction with Nefab AB's environmental policy. Nefab LogPak is certified according to ISO 9002.

The Product

NEFAB LogPak consists of standardized return packaging in the form of collapsible, wooden pallet collars. The product is made of softwood that is clamped together with galvanized steel hinges. Pallet collars from Nefab LogPak are used primarily to transport subcontractor goods in different industries.

This EPD relates to an average pallet collar manufactured and marketed by Nefab LogPak AB. The EPD covers materials used, transportation of raw materials and local emissions during production. Allocation is done per kg pallet collar.

Materials average collar	kg
Softwood *	8,14
Steelhinge mounting	1,53
Rivet	0,02
Ink	0,001
Stain	0,01
Total	9,70

* Moisture content ca 18 %.

Heavy metal content

The sum of heavy metals: Pb, Hg, Cd and Cr(6+) is < 100 ppm (1). (As restricted in the European Directive for Packaging and Packaging Waste (2).)

Certification

Certified Kiln Dried wood (56 °C, 30 min) is available. FSC- and PEFC-certified wood is available at request.

Transportation of raw materials

Mode of transp.	tonkm/kg pack.
Train	-
Car, local	-
Car, regional	-
Car, long distance	1,59
Ship	-
Aeroplane	-

(Local <30 km, regional 30-100 km and long distance > 100 km.)

Recovery

Reuse

Nefab continually strives to improve the potential for repeated use of its products. Experience has shown that NEFAB LogPak pallet collars have up to 60-70 transport-cycles per year and a life-span of 10-12 years. The figures vary depending on application.

Recycling

Wood may be converted or reused. Metal waste may be converted. Landfill is not a recycling option and should be avoided.

Energy recovery

Products which have served their time may be divided into wood and metal components. The wood can be used as fuel for energy production.

Environmental profile

This environmental profile applies to a NEFAB LogPak packaging as described above. It contains emission data from the assembly of pallet collars from wood and steel hinges. Emission data is based on the main production plant in Broaryd and refers to local emissions from internal transportation and energy use

Emission to air (3)	g/kg packing
CO ₂	8,68
CO	0,04
HC	0,02
NO _x	0,16
SO ₂	0,01
VOC	-
Particles	0,01

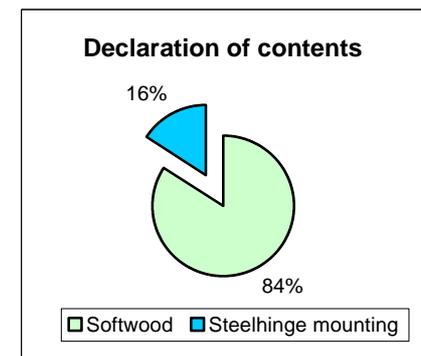
Emission to ground and water

Production of pallet collars do not generate any direct emissions to ground or water.

Waste management	g/kg packing
Ashes '	-
Hazardous waste ''	-
Ind. waste unsorted'	-
Ind. waste combustible '''	6,12
Wood ''''	13,76
Steel ''''	0,61

' to landfill, '' to licensed custody
 ''' to combustion in heating plant
 '''' to conversion

Energy use	MJ/kg packing
Oil	-
Diesel	0,04
Biofuel	-
Electricity (Swedish mix)	0,22
Total	0,26



References

- (1) Packaging - Requirements for measuring and verifying the four heavy metals and other dangerous substances present in packaging and their release into the environment - Part 1: Requirements for measuring and verifying the four heavy metals present in packaging, CEN REPORT (CR 13695-1), March 2000.
- (2) European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.
- (3) SNV, Luftföroreningar från arbetsfordon - Handlingslinjer, Statens Naturvårdsverk Rapport 3765, 1990. (In Swedish only.)