



## LION Fibreboard Finnish Fibreboard Ltd

Finnish Fibreboard Ltd Pihlava Mill  
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### 1. PRODUCT SPECIFICATION

#### Object definition

Porous LION fibreboard manufactured by Finnish Fibreboard Ltd.

#### Product description

The statistics cover the fibreboard production of the Finnish Fibreboard Ltd Pihlava Mill.

Porous fibreboards are manufactured from woodchips and sawdust utilising the wet process. The raw materials are refined into fibre and mixed with water into pulp. Building board products are manufactured by compressing and drying the mixed pulp.

The porous fibreboards are used as weathershields, in building and for thermal insulation.

#### Conversion factors

Unit weight	300 kg/m <sup>3</sup>
Weight per square metre	10 mm 3,0 kg/m <sup>2</sup>
	12 mm 3,6 kg/m <sup>2</sup>
	22 mm 6,6 kg/m <sup>2</sup>
	25 mm 7,5 kg/m <sup>2</sup>
Weight per piece	<b>1200 × 2700 mm:</b>
10 mm	9,7 kg
12 mm	11,7 kg
22 mm	21,4 kg
25 mm	24,3 kg
	<b>1200 × 3000 mm</b>
10 mm	10,8 kg
12 mm	13,0 kg
22 mm	23,8 kg
25 mm	27,0 kg
Humidity	5-7 %

#### Technical properties

RT-Environmental declaration is based on the national methodology following the basic principles stated in the ISO standard series 14040 and 14020. The method considers also the preliminary results achieved within ISO CD 21930. It is developed in cooperation with Confederation of Finnish Construction Industries RT, The Building Information Foundation RTS, VTT Technical Research Centre of Finland and companies of construction business.

## 2. ECO-PROFILE OF THE PRODUCT

The eco-profile includes the life cycle stages from the acquisition of raw materials to the factory gate

### 2.1 USE OF RESOURCES

#### Energy

Use of energy	MJ/kg
Non-renewable energy resource consumption	6,2
Renewable energy resource consumption	6,8
Energy resource consumption in processes + transport	13,0

Energy in transport *	MJ/kg
Energy resource consumption in transports	Not specified

Energy in processes *	MJ/kg
Electric energy resource consumption	Not specified
Fossil energy resource consumption	Not specified
Biotic energy resource consumption	Not specified
Total energy resource consumption in processes	Not specified

Feedstock energy of raw materials*	MJ/kg
Fossil feedstock energy in raw materials	0,064
Biotic energy in raw materials <sup>1</sup>	20
Total feedstock energy of raw materials	20,1

\*Voluntary

<sup>1</sup> Given when the raw material is also utilised as fuel

#### Raw materials

Consumption of raw materials	g/kg
Non-renewable natural materials	320
Renewable natural materials	1,370
Hidden material flows	Not specified
Total consumption of raw materials	1,690

### 2.2 EMISSIONS

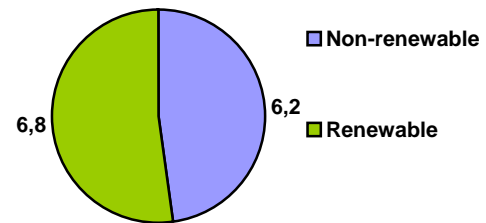
Emissions to air	g/kg
CO <sub>2</sub>	400
CO	3,7
SO <sub>2</sub>	1,1
NO <sub>x</sub>	2,3
CH <sub>4</sub>	0,74
N <sub>2</sub> O	0,021
NMVOC	0,55
PM <sub>10</sub>	0,58
Heavy metals (Hg, Cd, Pb, As, Cr, Zn, Ti)	0,96×10 <sup>-3</sup>
Dust	0,028
Other particles	Not specified

Emissions to water	g/kg
COD	13
BOD	5,9
P <sub>tot</sub>	0,010
N <sub>tot</sub>	0,050
Solids	1,8

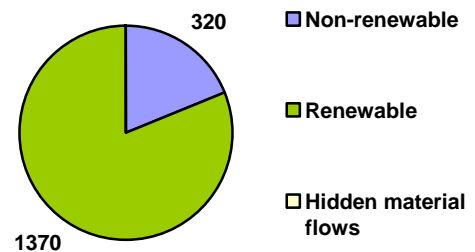
Process waste <sup>1</sup>	g/kg
Waste to dumping area	1,4
Hazardous waste	0,066

<sup>1</sup> Including industrial waste and municipal waste

#### Energy in processes and transport MJ/kg



#### Consumption of raw materials g/kg



## 3. OTHER ENVIRONMENTAL ASPECTS

### CONSTRUCTION

- Transportation
- Spillage on site
- Emissions to indoor air

- The porous LION fibreboard manufactured by Finnish Fibreboard Ltd is classified as a category M1 product in the Finnish emission classification for building materials. For more information, please visit [www.rts.fi](http://www.rts.fi).

### RISKS

### SERVICE LIFE

### SERVICE AND MAINTENANCE

### FINAL DISPOSAL

#### Recycling

- Undamaged boards that are in good condition can be reused as fibreboard products or burned in a suitable boiler.

#### Energy use

- Can be utilised as energy.
- The fuel value of fibreboard is 20 MJ/kg.

#### Waste treatment

- Can be disposed of in an ordinary landfill. For additional information, please contact the manufacturer or the proper authorities.

### ADDITIONAL INFORMATION