

A1 Material and energy flows from manufacture of product

(• = obligatory in the background document)

1	Identification of the product		•
		Name of the manufacturer. Name of the product, commercial name, supplementary information when needed. Classification according to the Finnish BUILDING 2000 classification system project divisions D - J.	
2	Description of the product		•
		Free description regarding the shape, dimensions, size, density, colour, etc. The number of the RT Building Information File can be given as reference. Describe the composition of the product.	
3	Period		•
		Give the applied period for material and energy flows and other information of manufacture. Give the explanation for the selected period when needed.	
4	Material flows in manufacture		•
		Give the material and energy flows of manufacture in items 5.2 - 5.6.	
	4.1	Annual production of the product	
	4.2	Raw materials	
		Consumption of raw materials is given per product or mass or volume of the product. The density of the product must be given if the result is announced per volume or the product. The moisture content must be given as % from the dry matter.	
	4.3	Water	
		Environmental impacts from the water supply are not taken into account according to the methodology. However, consumption of water is announced in the background report.	
		Consumption of water is given per product or mass or volume of the product. The density or the unit weight of the product must be given if the result is announced per volume or the product.	
	4.4	By-products	
		Environmental impacts from procurement and manufacture of by-products are not taken into account. However, the use of by-products is announced in the background report.	
		Amount is given per product or mass or volume of the product. The density or the unit weight of the product must be given if the result is announced per volume or the product. The moisture content must be given as % from the dry matter.	
	4.5	Additives	
		The production of additives is not taken into account in the calculation of the results for the environmental declaration if the amount of additives and their effect on the cumulative results is minor. However, the use of additives is announced in the background report.	
		Amount is given per product or mass or volume of the product. The density or the unit weight of the product must be given if the result is announced per volume or the product. The moisture content of the additive must be given and the quality and percentage of active agent when needed.	

	4.6	Subsidiary and packing materials	
		The production of subsidiary and packing materials is not taken into account in the calculation of the results for the environmental declaration if their amount and effect on the cumulative results is minor. However, the use of subsidiary and packing materials is announced in the background report.	
		Amount is given per product or mass or volume of the product. The density or the unit weight of the product must be given if the result is announced per volume or the product. The moisture content must be given as % from the dry matter.	
	4.7	Principles of allocation	
		The principles of allocation must be given when the material flows of the product are defined without a unambiguous physical basis in manufacture.	
	4.8	Quality of material flow data	
		Quality and origin of the material flow data are described when the amount and quality of materials are not based on accounting by the product manufacturer. The conversion factors are described and justified if the initial data consists of volumes, units, etc.	
5		Energy flows in manufacture	•
	5.1	Quality and amount of used energy	
		Energy consumption is given per product or mass or volume of the product. The density or unit weight of the product must be given if the result is announced per volume or the product. Energy figures are given as consumed energy; electricity and district heat are announced here as kilowatthours (kWh) and fuels as mass or volume per the product. <i>Primary energy resource consumption is given in the environmental declaration on the basis of consumed energy as mega joules (MJ) and emissions from the use of primary energy resources as mass units. The primary energy resource consumption and the related emissions should be primarily based on the eco-profiles of this methodology.</i>	
	5.2	Principles of allocation	
		The principles of allocation must be given when the energy flows of the product are defined without a unambiguous physical basis in manufacture.	
	5.3	Quality of energy data	
		Quality and origin of the fuel data are described when the amount and quality of fuels are not based on accounting by the product manufacturer.	
6		Process emissions and waste	•
	6.1	Quality and amount of waste and emissions	
		Amount is given per mass of the product. <i>The methodology takes into account the waste but not waste disposal and its environmental impacts. However, the waste disposal is described here. Products or components which will be recycled are not considered as waste. The moisture content of the waste should be given when needed.</i>	
	6.2	Principles of allocation	

		The principles of allocation must be given when the amount of waste and emissions are defined for the product without a unambiguous physical basis in manufacture.	
	6.3	Quality of process emission and waste data	
		Quality and source of the data regarding the process waste and emissions are described when the data is not based on accounting by the product manufacturer. Measurement and calculation methods of process emissions are described if applied.	
		Typical loss of the product in assembly and construction phase is given for different applications. The loss is announced as percentage from the mass of the product.	
7	Transport of raw materials, fuels and subsidiary materials		•
		Transport distance and means of transport are given for each raw material, subsidiary material, fuel, etc. <i>The eco-profiles of transport should be primarily based on the database of the methodology.</i>	
	7.1	Distance and means of transport	
	7.2	Transport data quality	
		Quality and source of the data regarding the transport is described when the data is not based on accounting by the product manufacturer.	
8	Indoor air emissions		
		Emissions from the product to indoor air are described. The measurement or assessment methods are described for the estimated indoor emissions. The indoor air class should be given if such exists.	
9	Health risks		
		Refer to operational safety bulletin if such exists.	
10	Service life		
		Refer to LifePlan database if it includes service life information of the product.	
11	Care		
		The care of the product is described and the reference to LifePlan database is given if it includes service life information of the product. The significant material and energy flows from the care are described.	
	11.1	Quality of material and energy flows from the care Amount / unit	
		Amount is given per mass or other suitable unit of the product (see item 14).	
12	Maintenance		
		The maintenance of the product is described and the reference to LifePlan database is given if it includes service life information of the product. The significant material and energy flows from the maintenance are described.	
	12.1	Quality of material and energy flows from the maintenance Amount / unit	
		Amount is given per mass or other suitable unit of the product (see item 14).	
13	Recycling and final disposal		

		The methods and reasons for recycling and final disposal are given.	
14	Conversion factors		
		The conversion factors for the use of the clients are explained.	
15	Manufacturer's affirmation		•
		The manufacturer gives an affirmation on the correctness of the manufacture data.	