

## m<sup>2</sup> Aluminium foil insulation

Aluminium is a ductile non-ferrous metal. It is a lightweight metal with an average density of 2 700 kg/m<sup>3</sup>. It is durable, corrosion resistant, a good reflector of both visible and infrared radiation, and highly recyclable. Aluminium insulation foils provide a barrier to light, infrared radiation and sometimes air, moisture and bacteria, depending on perforation and treatment.

Aluminium insulation foil is manufactured by rolling aluminium slabs cast from molten aluminium into a mill for a desired thickness. It is produced into rolls of specific widths and lengths.

Aluminium insulation foil is commonly installed in cavities to reflect infrared radiation and trap heat inside or outside of a building (depending on its placement).

**Category** *Insulation*

**Type** *Aluminium*

**Functional unit** *m<sup>2</sup>*

**Specific heat** *0.01 J/(kg·K)*

**Density** *321 kg/m<sup>3</sup>*

**Common uses**  
*Insulation*

**Process name**  
*Aluminium foil insulation (custom)*

**Input-output sector**  
*Basic Non-Ferrous Metal Manufacturing*

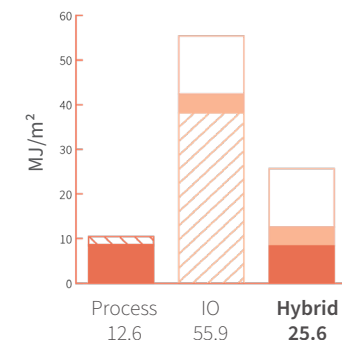
**Further information**  
[doi.org/10.26188/5da551d0640fa](https://doi.org/10.26188/5da551d0640fa)

### TOP THREE INPUTS

4.2% Road Transport

0.6% Oil and gas extraction

0.6% Electricity Transmission, Distribution, On Selling and Electricity Market Operation



### ENERGY

25.6 MJ/m<sup>2</sup>

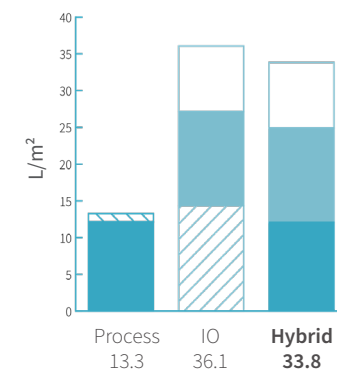


### TOP THREE INPUTS

21.0% Kraft paper, unbleached, at plant/RER U/AusSD U

5.3% Glass fibre, at plant/RER U/AusSD U

1.5% Ethylene vinyl acetate copolymer, at plant/RER U/AusSD U



### WATER

33.8 L/m<sup>2</sup>

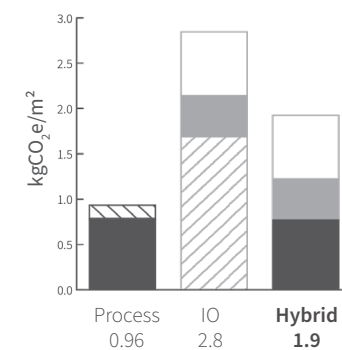


### TOP THREE INPUTS

7.3% Glass fibre, at plant/RER U/AusSD U

1.7% Road Transport

1.4% Oil and gas extraction



### GREENHOUSE GAS EMISSIONS

1.9 kgCO<sub>2</sub>e/m<sup>2</sup>

