



**KEY FACTS – ENVIRONMENTAL  
PRODUCT DECLARATION ACC. TO EN 15804**

LAMILUX Glass Roof PR60 | Smoke Lift Glass Roof PR60

# ENVIRONMENTAL PRODUCT DECLARATION AND LIFE CYCLE ASSESSMENT

The EPD is based on a Life Cycle Assessment (LCA), which is used to quantify environmental impacts through material and energy flows. The LCA was prepared in accordance with the requirements of DIN EN 15804, DIN EN ISO 14040, DIN EN ISO 14044 and EN ISO 14025.

With a Life Cycle Assessment, the potential environmental impacts and influences associated with the products over their entire life cycle

(raw material supply, manufacture, use and end of life) can be identified and presented.

Primarily, EPDs are used as a verification for sustainability certification systems for buildings, e.g. DGNB or LEED. In addition, they facilitate standardised communication on the environmental performance of products.

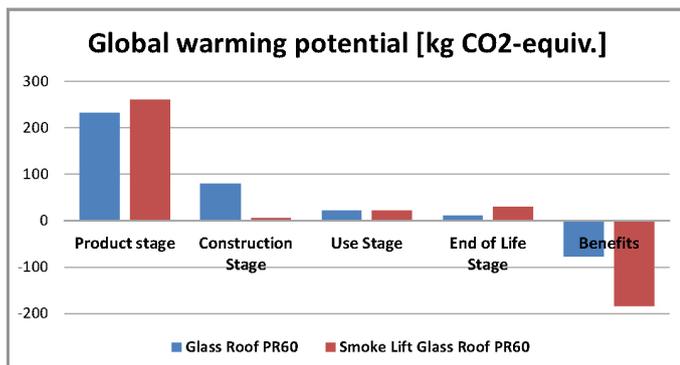
## SELECTED RESULTS AT A GLANCE

All declared environmental impacts correspond to EN 15804. Indicators on resource use, output flows and environmental impacts can be found in the full version of the EPD.

### Global warming potential (GWP)

The deciding factor for the GWP can be found in the manufacturing phase, especially in the production of required raw materials (in particular aluminium extrusion profile and insulation glass). Regarding Glass Roof PR60, the life cycle phase construction also contributes to the GWP, caused by thermal recycling of wooden packages. The GWP of the use stage is based on cleaning, maintenance and repair processes. The products receive benefits from the energy generated in recovery processes and for the savings in raw materials caused by recycling processes. As most of the materials are recycled, the GWP for end of life stage is relatively low. Benefits mainly originate from the recycling of aluminium and glass.

Higher values for Smoke Lift Glass Roof PR60 result from the absence of wooden packaging material.

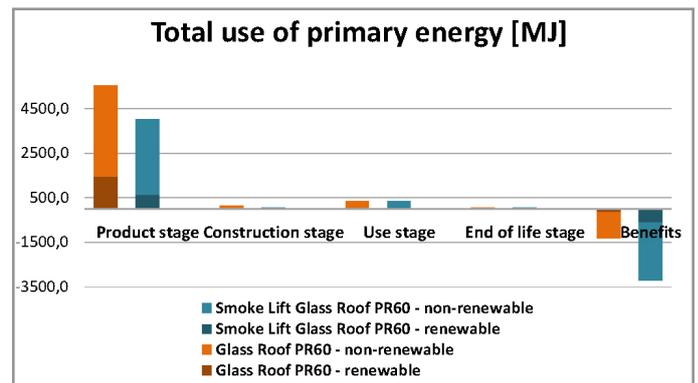


### Other environmental impacts

The environmental impacts of the other environmental categories are generally very similar for both products in the individual life stages. Here it has to be neglected that in contrast to Glass Roof PR60, no packaging has been considered for the smoke lift variant.

### Use of energy

The total use of primary energy is determined by the production stage, in this case mainly by the production of necessary raw materials. Energy for producing components for replacement and maintenance during the use stage plays a secondary role. As already seen in the GWP, benefits mainly derive from the recycling of aluminium and glass.



### Recycling potential

Recycling potential can be explained as the share of the product, which can be recycled or reused thermally resp. can be disposed after appropriate treatment. As the considered products have a high share of glass and aluminium, their recycling potentials are high.

