

# ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025

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**MOVEO Partition System**

**Fullwall Element**

**DORMA Hüppe Raumtrennsysteme GmbH + Co. KG**

Compiled in collaboration with:

brands & values®

Issuer and Programme Holder:



Institut Bauen  
und Umwelt e.V.



## Environmental Product Declaration as per ISO 14025

An Environmental Product Declaration (EPD) was prepared in compliance with ISO 14025 and EN 15804 for the MOVEO partition made by DORMA Hüppe Raumtrennsysteme GmbH + Co. KG.

The objective was to identify and assess the potential environmental impacts related to the partition system. A life cycle analysis (LCA) was therefore carried out in accordance with ISO 14040, providing a methodological framework for presentation of the product's "eco-balance".

An LCA/eco-balance enables assessment of the climate change and ecological aspects associated with a product – i.e. the product-specific potential environmental impacts arising from raw material extraction (cradle) through production and use and on to recycling/disposal (grave).

An EPD thus enables participation in tenders involving sustainable building certification procedures and facilitates communication of the environmental performance of the products assessed.

## LCA: Summary of MOVEO Results

### Global warming potential (GWP)

In the course of its life, the MOVEO fullwall element gives rise to greenhouse gas emissions totaling 117.28 kg CO<sub>2</sub> eqv. The environmental impacts arising from the raw material extraction and processing stage are significant for the CO<sub>2</sub> balance of the MOVEO. The energy input for the ComforTronic actuator required to operate the partition system is responsible for the emissions in the use phase.

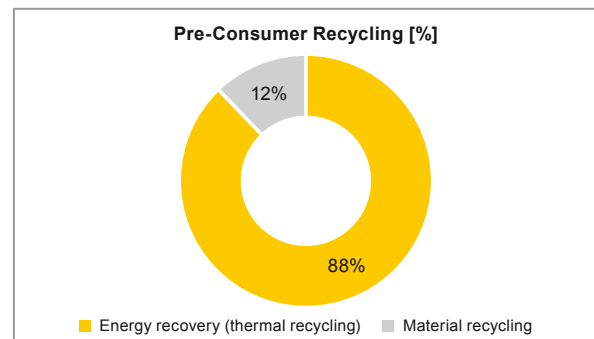
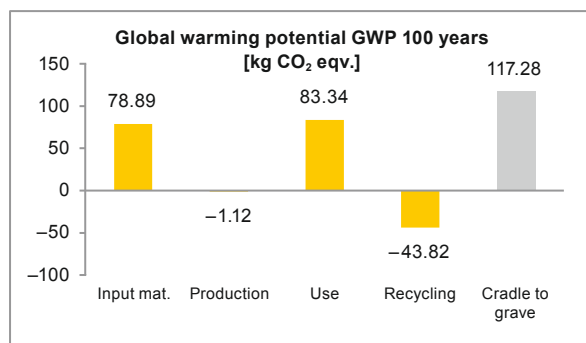
The fullwall element earns credits due to its high recycling potential at the end of its useful life. Further credits arise from the recycling of the production offcuts.

Credits arise from the energy recovered from the thermal recycling process.

The energy requirement in the use phase is attributable to the power consumed by the ComforTronic actuator that automatically extends the horizontal seals (sealing strips) of the individual elements once the elements have been pushed together.

### Pre-consumer recycling

The total weight of the production waste recycled at the pre-consumer stage is 4.623 kg/m<sup>2</sup> or 13% of the material input. Of this, 12% is sent for material recycling and 88% for energy recovery by thermal recycling.



### Primary energy requirement

The cumulative energy demand (CED) arising from the manufacture, use and recycling of the MOVEO fullwall element totals 2,317 megajoules (MJ). The greatest amount of energy consumed occurs at the raw material extraction and processing stage due to the high power requirement of the aluminum production phase and the manufacture of the MDF board.

### Post-consumer recycling

At the end of the product's life, 16% of the MOVEO fullwall element is sent for material recycling and 84% for energy recovery by thermal recycling. The packaging waste is added to the post-consumer recycling potential.

