

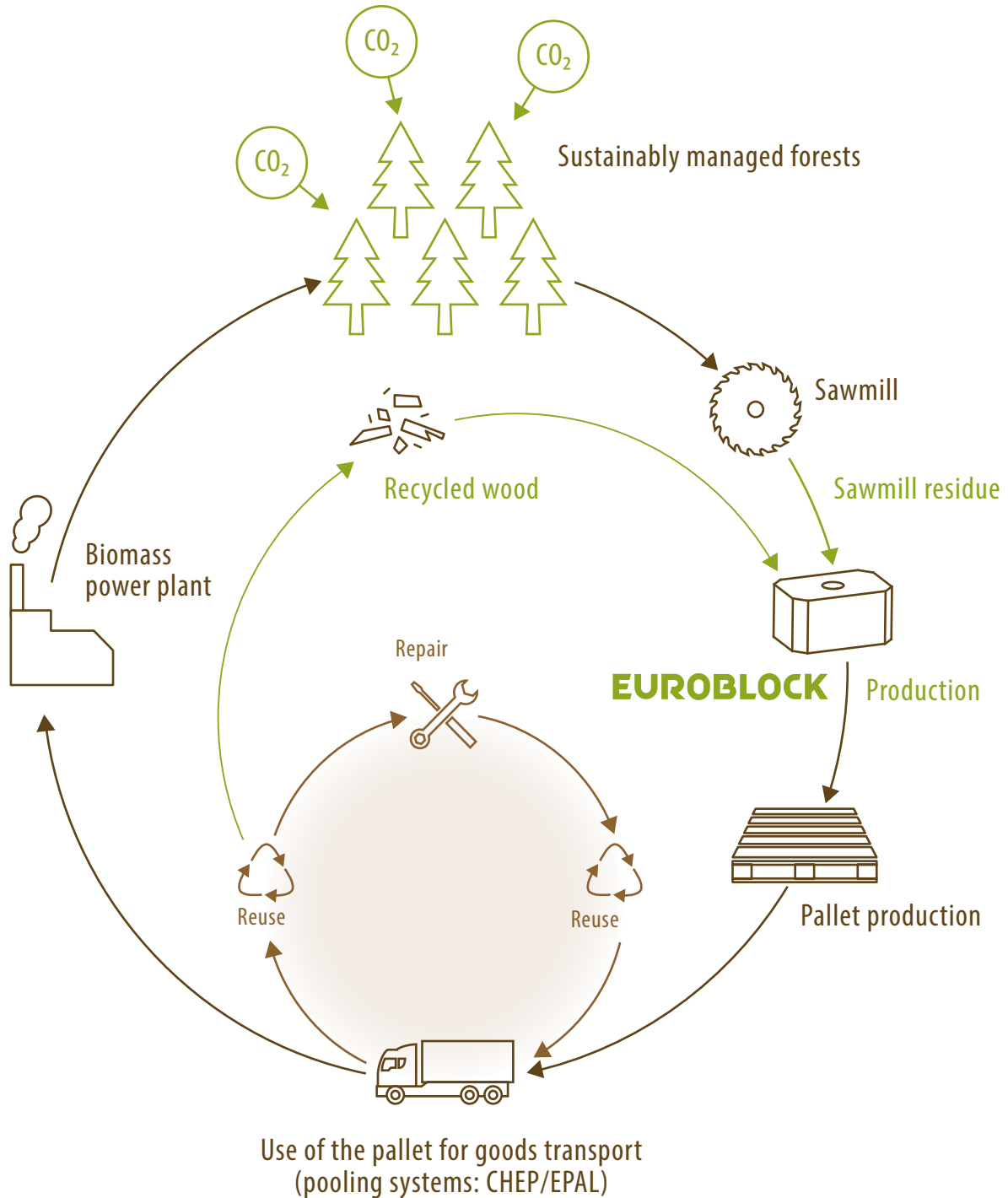


CO₂-FOOTPRINT
composite blocks

A BLOCK THAT PROTECTS TREES



1,000 EPAL pallets with composite blocks avoid up to 27.5 tonnes of CO₂ – by using recycled wood instead of fresh wood and energy-intensive materials.*



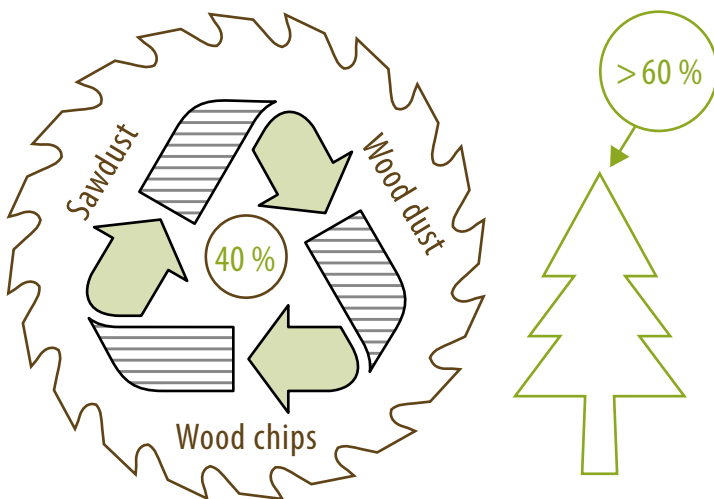
* Based on internal CO₂ calculation (GWP100) for composite blocks according to the GHG Protocol and Ecoinvent 3.10, compared to solid wood blocks or plastic pallets in line with HPE methodology.

OUR EUROBLOCK PALLET BLOCK

The pressed composite block from EUROBLOCK is a true benchmark in sustainability: Made from residual and recycled wood, it stands out not only for its environmental friendliness but also for its exceptionally long service life – clearly outperforming other block variants.



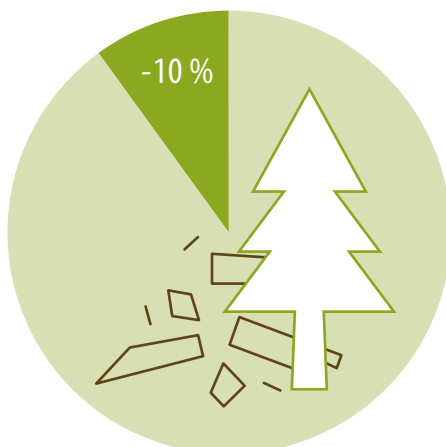
Why are composite blocks the better choice?



Resource efficiency and waste prevention

Up to 40 % of residual materials such as sawdust, wood chips, and wood dust are generated during wood processing. Our composite blocks give this so-called ‘waste’ a second life – increasing the utilization of a tree from around 60 % to nearly 100 %.

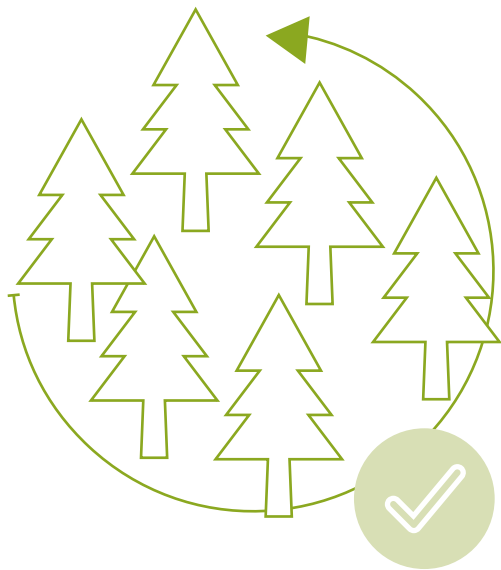
Source: waldwissen.net



Flexibility in production

Composite blocks enable material savings of up to 10 % compared to solid wood blocks, as they can be precisely tailored to specific requirements without generating significant residual materials. This flexibility optimizes material use and contributes to resource conservation.

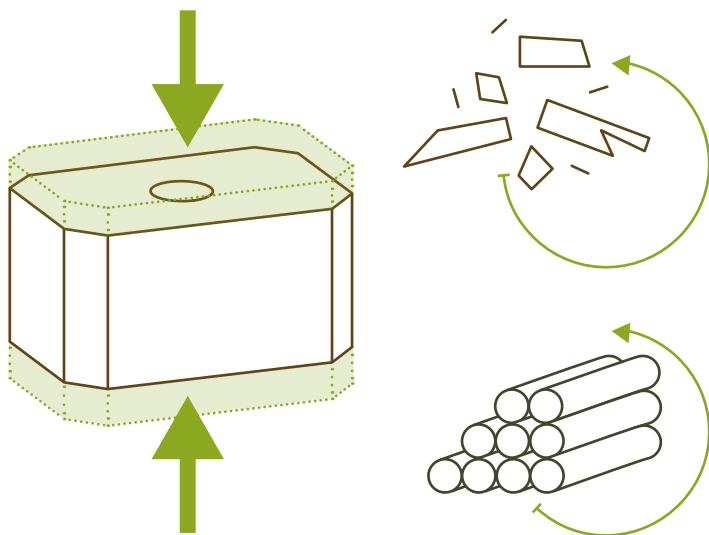
Source: holzkurier.com



Sustainable forest management

By using pressed composite blocks instead of solid wood, up to two cubic meters of roundwood can be saved per cubic meter of blocks. This helps relieve pressure on our forests and allows sustainably produced wood to be used as a building material – thereby extending the long-term storage of the CO₂ bound within it.

Source: wald.fnr.de



High durability and strength

Composite blocks have a higher compressive strength than solid wood blocks, which reduces their breakage rate and extends their service life. This saves additional resources and emissions over the entire life cycle.

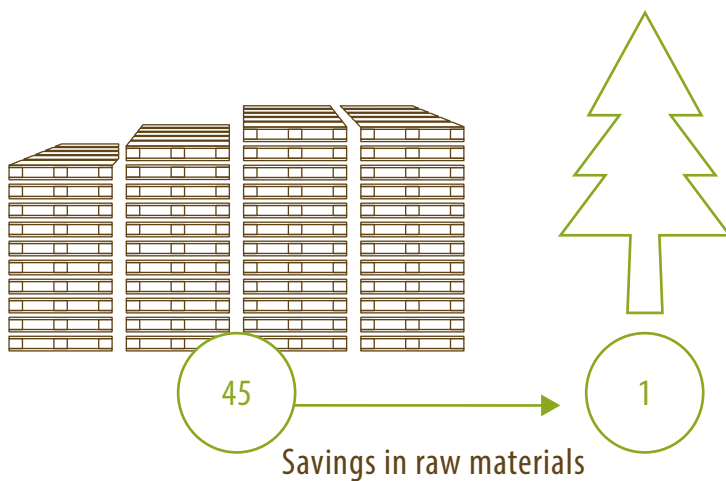
Source: mdpi.com/2073-4360/13/11/1752



CO₂ SPECIFICATION OF THE PALLET BLOCKS

CO₂ emissions per m³ block

PER LIFECYCLE	kg CO ₂ e/m ³ block (GWP100)	SHARE OF EMISSIONS PER LIFECYCLE IN TOTAL EMISSIONS [%]
Raw materials	88,08	79,2 %
Wood chips and sawdust	12,13	
Binders and additives	72,80	
Packaging	3,15	
Inbound logistics	5,63	5,1 %
Wood chips and sawdust	0,06	
Binders and additives	5,01	
Packaging	0,56	
Production	17,44	15,7 %
Electricity	3,20	
Thermal energy	14,24	
Total	111,15	100,0



Producing 45 EPAL pallets with composite blocks saves approximately one cubic meter of roundwood — about the volume of a single coniferous tree.

Sources: UBA (2017), EPAL (2023), HPE Verband (2021)

The CO₂ figure was determined independently based on internal data and calculation models. Recognized calculation approaches and available emission factors were applied and aligned with an external partner. This is an indicative estimate that is subject to continuous development and improvement.

Note: The calculation was carried out without external verification. Deviations from other calculation approaches are possible.

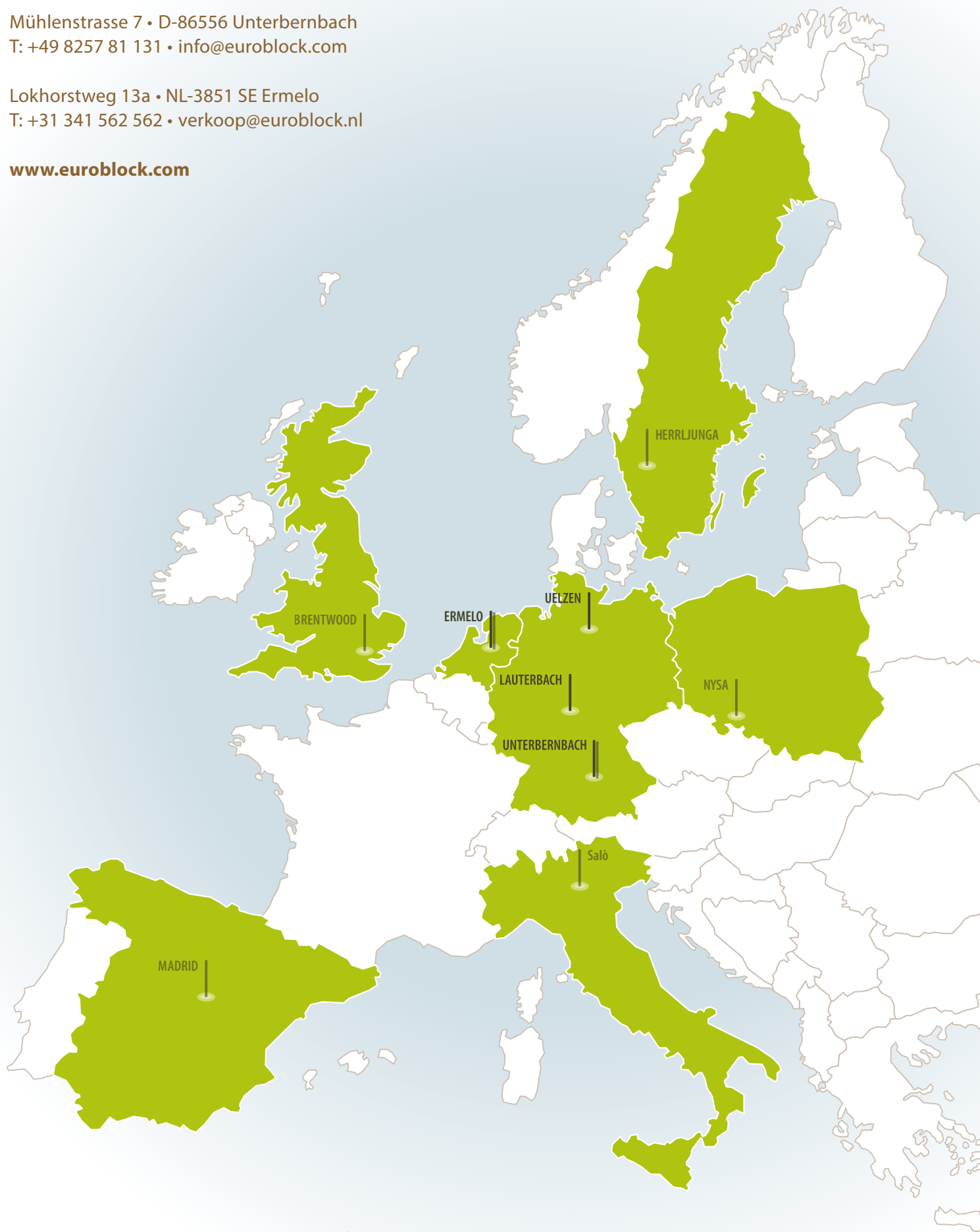
- **Data collection period:** The data for calculating the average CO₂e footprint of composite blocks was collected at the plants in Uelzen, Lauterbach, and Unterbernbach for the year 2023.
- **System boundaries:** Cradle-to-gate
- **Description of the included life cycle stages:** Raw material extraction (including raw materials and packaging materials) and pre-processing, transport of raw materials and packaging materials to Pfeifer production sites, manufacturing process (electricity and heat consumption).
- **Applied standard:** Product Life Cycle Accounting and Reporting Standard (2011), published by the Greenhouse Gas Protocol.
- **Databases used:** GWP100 CO₂e values from Ecoinvent v3.10 and UK Government GHG Conversion Factors for Company Reporting 2024 v1 (DEFRA & DESNZ, July 2024).
- **Cut-off rule:** The Recycled Content Method was applied, whereby all emissions from the recycling process of a raw material are allocated to the life cycle in which the recycled material is used.
- **Product Carbon Footprint:** Description of the calculation methodology

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Publisher: Euroblock Verpackungsholz GmbH • Mühlenstraße 7 • D-86556 Unterbernbach
Contact person: Leonhard Scherer • Images: Cover page: istock – Martins Vanags