

**Interreg**



EUROPEAN UNION

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EUROPEAN REGIONAL DEVELOPMENT FUND

CaSCo - Carbon.Smart.Communities

# CO<sub>2</sub> Comparisons . France

# Windows . Doors

compiled by

HOLZ VON HIER

[www.holz-von-hier.de](http://www.holz-von-hier.de)

**WINDOWS**  
of short distances







## Regional supporters and climate protectors with wooden windows of short distances

Modern wooden windows are beautiful and have many advantages such as very good insulation ( $U_w < 0.8$ ), stability even with slim profile sizes, long durability (up to 50 years). For the climate protection potential of modern windows the following applies: the lower the  $U_w$ -value, the more important the carbon balance of the processing chain of the frame materials. In Europe, 30% of wooden windows are still made of tropical wood, mostly Meranti and others from countries such as Indonesia or Malaysia, where rates of depletion and  $CO_2$  emissions are high due to losses of wood and soil storage. Imports of wooden windows and doors from (besides Germany) Poland, the Philippines, China, Denmark, Slovakia, Indonesia, Malaysia, Brazil and others to France account for the bulk of the volume-weighted  $CO_2$  emissions.

### For extra climate-friendly windows you should pay attention to short distances.

Owing to overlapping material flows of components in France's foreign trade, avoidable 1.484 tonnes of  $CO_2$  emissions are produced each year. The  $CO_2$  savings by using HvH windows/doors instead of these needless transports, compensates for the emissions of 14.840 electric cars using green electricity. A HvH wood window from the Alpine space instead of a window from Poland saves 25 kg  $CO_2/FE$  in the supply chains (in case of spruce as material), 80 kg  $CO_2/FE$  (in case of Meranti) up to 112 kg  $CO_2/FE$  (in case of PVC as material).

## Wood windows of short distances (Low Carbon Timber - HOLZ VON HIER) instead of Poland will save (a) window spruce 500 kg $CO_2$ , (b) window meranti 1.600 kg $CO_2$ and (c) window PVC 2.240 kg $CO_2$ per residential building (with 20 window units).

	The exchange „LED instead of light bulb“ in the whole house brings only after after 3 years (spruce), 10 years (Meranti) and 13 years (PVC) the same $CO_2$ savings.
	This brings the same $CO_2$ savings as turning on 2.5 years (spruce), 8 years (Meranti) and 11 years (PVC) standby on all home appliances.
	This compensates the $CO_2$ emissions of 5 years (spruce), 16 years (Meranti) and (c) 22 years (PVC) driving with a mid-size electric car that consumes green power.
	The replacement of older equipment with the most energy-efficient equipment on the market only reach about the same $CO_2$ savings in case of washing machines after 12 years (Fichte), 38 years (Meranti) and 54 years (PVC).



**LOW CARBON TIMBER**  
A trade mark of Holz von Hier

**CERTIFICATE**

ID-No.

Check the authenticity of this certificate by entering the ID in the search box at:  
[www.holz-von-hier.de](http://www.holz-von-hier.de)

This certificate confirms that the labeled product or building is made of extra climate- and environmentally friendly wood of short distances from sustainable forestry.

This has made an important contribution to the protection of the climate, Environment, biodiversity and resources, as well as support of regional added value.

**product certificate to the final customer**  
This certificate refers to the material flow according to the criteria of HOLZ VON HIER along the entire processing chain from the forest to the final destination or final customer

A1	A2	A3	A4
sustainable sourcing	transport-CO2 supply chain	production	transporte from gate to customer

certificate owner company:  final customer:

attachment with product specifications

## Ask for ... !

One cannot guess the origin and transport distances for the wood by looking at the product. Therefore ask for a Low Carbon Timber Certificate (HOLZ VON HIER) for your purchased timber product.

This eco-label captures all material flows from the along the whole supply chain. The certificate labels a product of extra climate-friendly wood of short distances and sustainable forestry.

By asking for a certificate You give a valuable contribution to the protection of climate, biodiversity and the environment and strengthen your region.