

Interreg



Alpine Space

CaSCo

EUROPEAN REGIONAL DEVELOPMENT FUND

CaSCo - Carbon.Smart.Communities

CO₂ Comparisons . Italy

Wooden Insulations

compiled by

HOLZ VON HIER

www.holz-von-hier.de

INSULATION
of short distances



Natural insulating materials still have low market shares, although they offer optimal insulation properties, safety and health aspects.

Modern insulation materials all have almost the same insulating properties. Synthetic insulations often contain highly toxic, carcinogenic flame retardants (e.g., HBCD) and are still fire hazardous even with flame retardants. When used, wood fiber insulating materials are optimally insulating and create a healthy and balanced living environment.

All insulation materials can have travelled over long distances.

Extra climate-friendly are wood insulation materials only by short distances.

Insulation imports from Romania, Poland, Spain but also more distant countries like Russia (besides France, Germany) make up a large part of the volume-weighted CO₂ emissions. In the Alpine region, there would be enough wood insulation manufacturers to replace imports with very long distances.

The overlapping material flows of wood based insulations in Italy's foreign trade produces avoidable emissions of 50.114 tonnes of CO₂ each year. The reduction in CO₂ through the use of short-distance wood-based insulating materials instead of superfluous transports would save 2.3 times more CO₂ than the European Green Building Program. It would save the same CO₂ savings as 23.864 houses with photovoltaic systems.

Wood insulation materials of the short distances at / in a wooden house instead of insulating material from Russia saves on average 11 t CO₂ / wooden house.

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|  | The exchange „LED instead of light bulb“ in the whole house reaches the same savings only after 53 - 54 years. |
|  | This compensates CO ₂ emissions through 5 to 6 years of electricity and heating in a modern new building. |
|  | This compensates the CO ₂ emissions of 5 years driving a middle class car. |
|  | Replacing older appliances with the most energy-efficient appliance on the market will only reach about the same CO ₂ savings on washing machines after 271 - 278 years and for refrigerators only after 90 - 92 years. |



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.