AMORIM

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CARBON DIOXIDE SINK EFFECT of Expanded Insulation Corkboard

The Carbon Footprint of the Expanded Insulation Corkboard is -596,5 Kg CO_2 /m^3

SUMMARY:

CARBON EMISSIONS	CARBON SINK	CARBON EFFECT
+ 16,5 Kg CO_2	**- 613 Kg CO_2 (Sink)**	**- 596,5 Kg CO_2 (Sink)**

Data:

Transport of Raw-material from forest to factory	Average distance to forest: 30 km Actual Load: 15 tonnes (85 m^3 / truck) Consumption: 30 l/ 100 km Emission reference (diesel): 3098,2 Kg CO_2 /tep Factory consumption: 355 Kg of Raw material / m^3 of Expanded Insulation Corkboard Result: **0,5 Kg CO_2 / m^3 of Expanded Insulation Corkboard**
Production	PEI = 45 kWh / m^3 Emission reference (electricity): 0,354 Kg CO_2 / kWh (Endesa_2012) Result: **16 Kg CO_2 / m^3 of Expanded Insulation Corkboard**
Total emissions (transport + production)	Result: **16,50 Kg CO_2 / m^3 of Expanded Insulation Corkboard**

1,727 Kg CO2e / kg Cork (PwC)	European Committee for Standardization – Draft EN 16449:2012 - Carbon Dioxide sequestration of wood products Result: **613 Kg CO_2 sink / m^3 of Expanded Insulation Corkboard**

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