



Net Carbon Removal Benefit Calculation

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Natuurhuis

by

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Project details

Address:	Aert van Nesstraat 45, 30 12 CA Rotterdam, Netherlands
Project type:	Residential: slanted roof
Expected realisation year:	2025
Project lifespan:	73 years
Gross floor area:	125 m ²
Project phase:	Under Construction

Project description

Tussenwoning

Based on a total Construction Stored Carbon of 22,85 tCO₂e,

The Net Carbon Removal Benefit of the project is calculated at:

19

t CO₂e

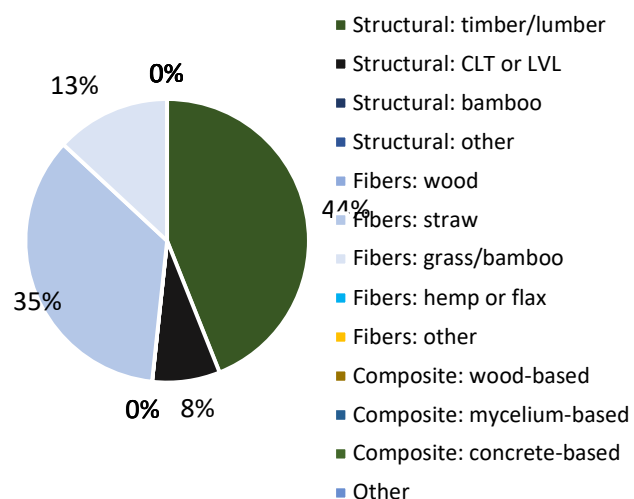
Per square meter Gross Floor Area of the project this equates to:

150,8

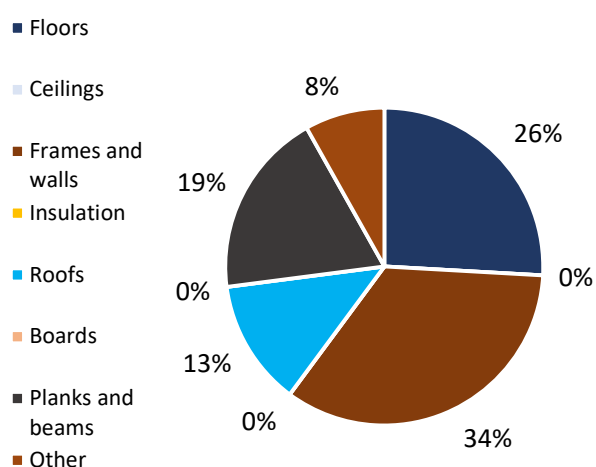
kg CO₂e / m²

With a total lifespan (including reuse) of at least 60 years

CSC per main material type



CSC per product category



Calculation input

The table below shows the registration numbers of the EPDs of the biobased products used in the project, as well as the manually entered data used to calculate the project's Net Carbon Removal Benefit:

Product name	Product quantity	Carbon content [kg CO ₂ e/unit]	Total biogenic carbon (CSC) CO ₂ e	Total lifespan [years]
Standard and Braced Straw Panels	51,11 m2	-123	-6286,53	75
Gramitherm 100	159,3 m2	-7,034	-1120,516	60
Vuren (Picea spp)	2,83 m3	-735,8267	-2082,389	60
Gramitherm 100	205,6 m2	-7,034	-1446,19	60
Vuren (Picea spp)	2,01 m3	-735,8267	-1479,012	60
Meranti, donker rood (Shorea spp.)	0,11 m3	-825	-90,75	
Fraké (Terminalia superba)	2,43 m3	-924	-2245,32	
Vuren (Picea spp)	5,64 m3	-735,8267	-4150,062	
Gramitherm 100	60,1 m2	-7,034	-422,7434	
Vuren (Picea spp)	2,4 m3	-735,8267	-1765,984	
Gramitherm 100	250,6 m2	-7,034	-1762,72	