

Memo

Date: 7.28.2021

From: Perkins&Will

Re: 1 De Haro –
Embodied Carbon
and LCA Data

1 De Haro – Embodied Carbon and Life Cycle Assessment Data

LCA Data:

Location: San Francisco, California

Gross Area: 131,000 ft² (12,170 m²)

LCA Tool: Tally (GaBi 8.5 LCI Database)

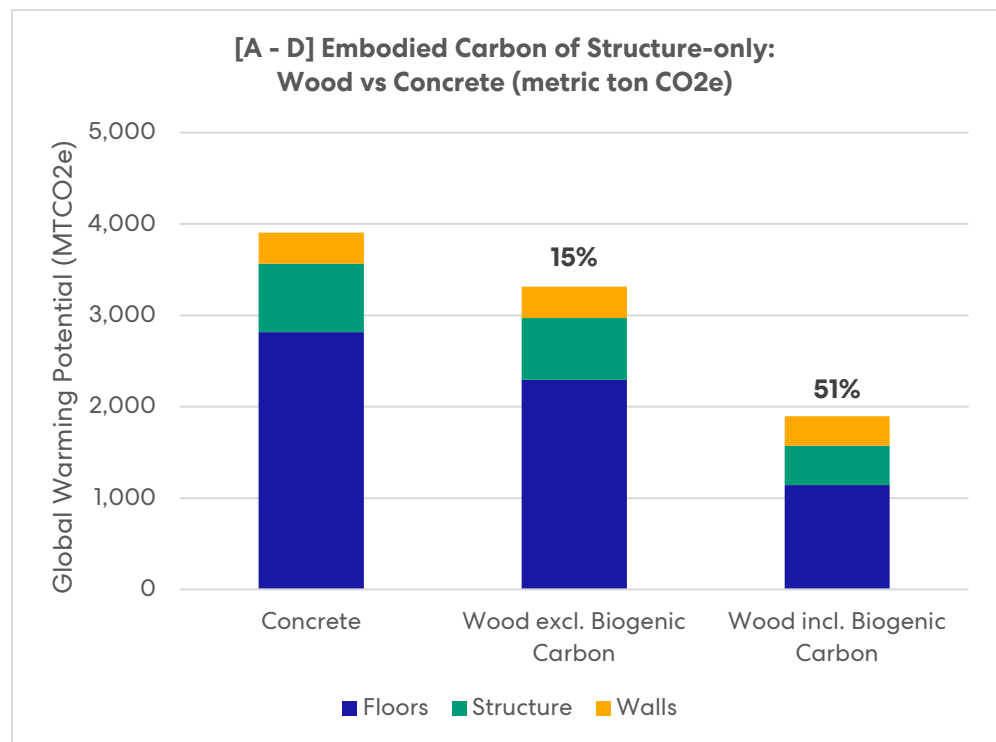
Building Service Life: 60 Years

Included Scope: Structure ONLY (Foundation, Columns, Framing, Walls and Floors). Excludes envelope and interior fit-out.

Boundaries: Cradle to Grave, INCLUSIVE of biogenic carbon*.

*Biogenic carbon is the carbon transferred between nature and the technosphere as bio-based materials sequester carbon during growth and emit carbon during combustion or biodegradation. ISO 21930:2017 recommends biogenic carbon be included within system boundary.

Table 1: Global Warming Potential for All Stages [A – D]:



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Table 2: Global Warming Potential [A – D Stages] :

Global Warming Potential (metric ton CO2e)			
	Concrete	Wood excl. Biogenic* Carbon	Wood incl. Biogenic Carbon
Floors	2,816	2,294	1,140
Structure	750	678	432
Walls	339	340	325
Total GWP:	3,904	3,312	1,897
Savings:	-	15%	51%
<i>Intensity:</i> kgCO2eq/m ² :	320.8	272.2	155.9

Chart 1: Total Mass of Structure

