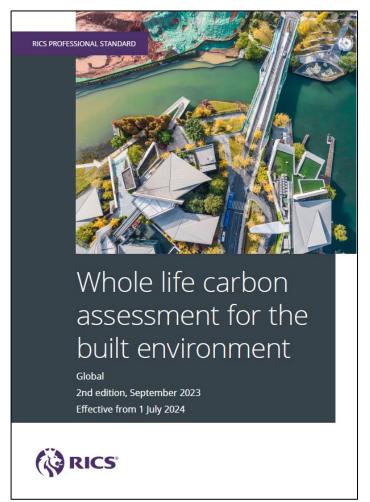


STA AGM/Conference Timber and Carbon

2024 / St Pierre Country Club / Chepstow

Chris Gaze

Responding on your behalf to ...









HM Treasury

Addressing carbon leakage risk to support decarbonisation Summary of consultation responses and government

Date: 18 December 2023

response



RICS whole life carbon assessment

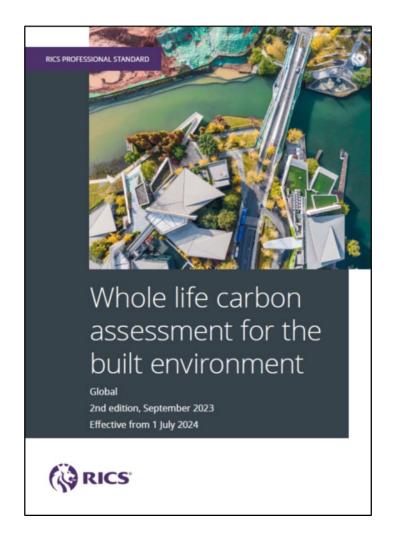
A1-3: Product stage

D: Beyond the project life cycle

A4-A5: Construction stage

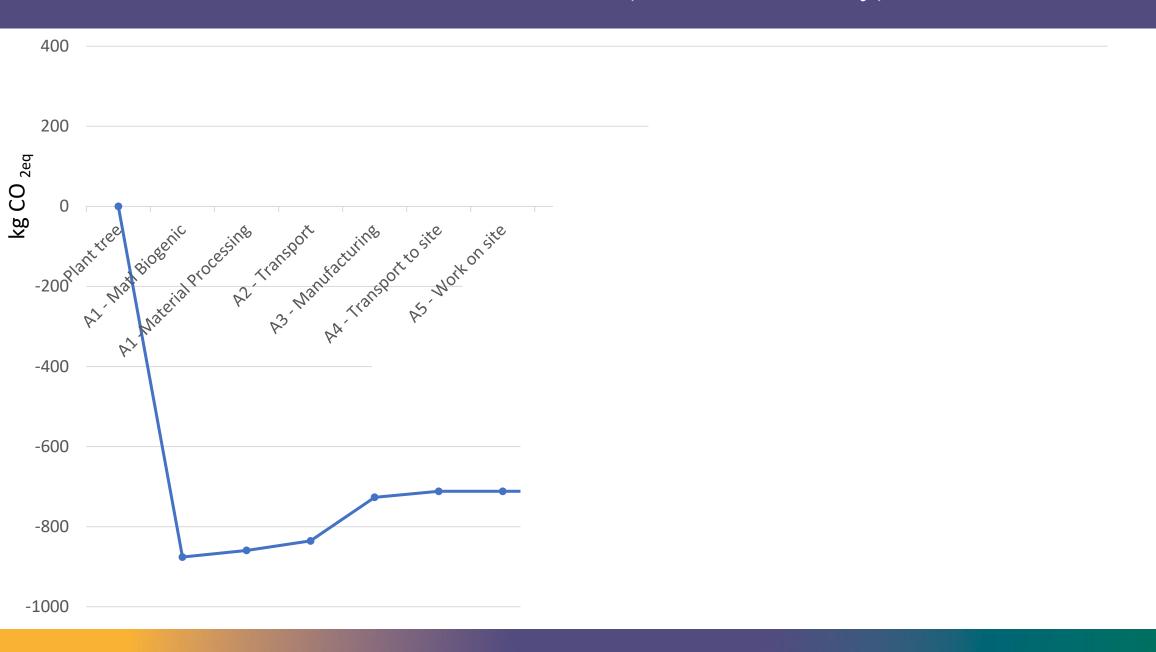
C1-C4: End of life stage

B1-B7: In use stage

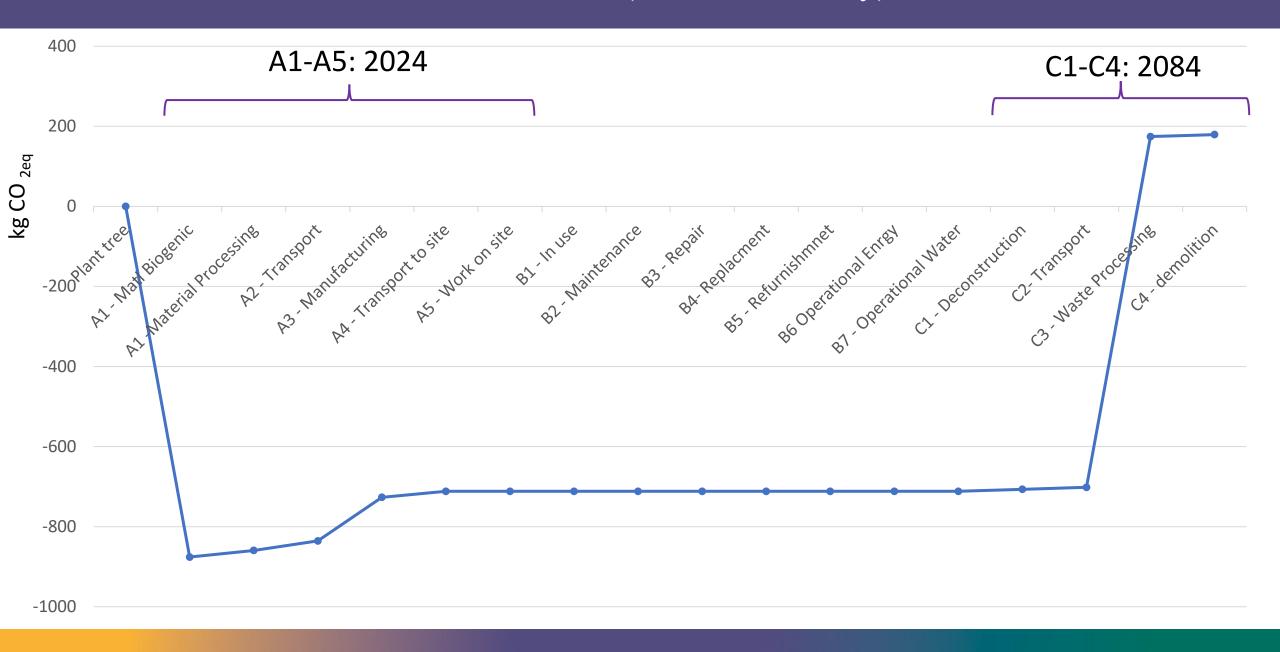




The calculation for 1 m³ of timber (indicative only)



The calculation for 1 m³ of timber (indicative only)



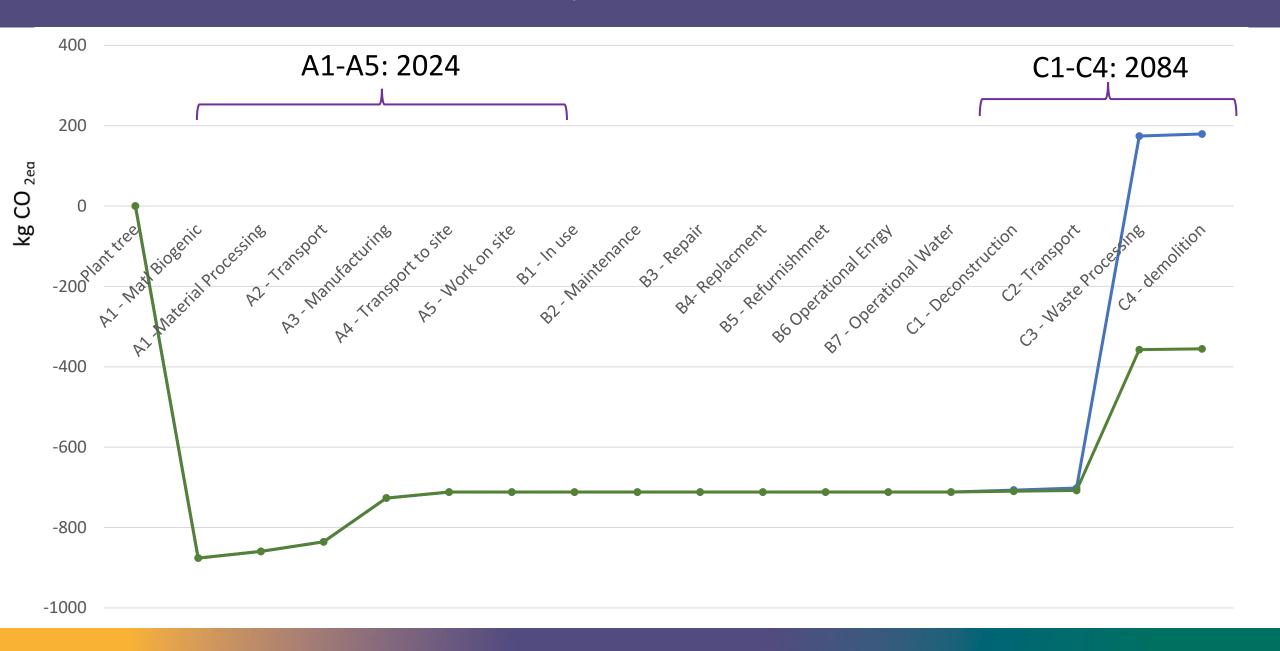
Up front carbon only (ignore biogenic carbon)

-1000

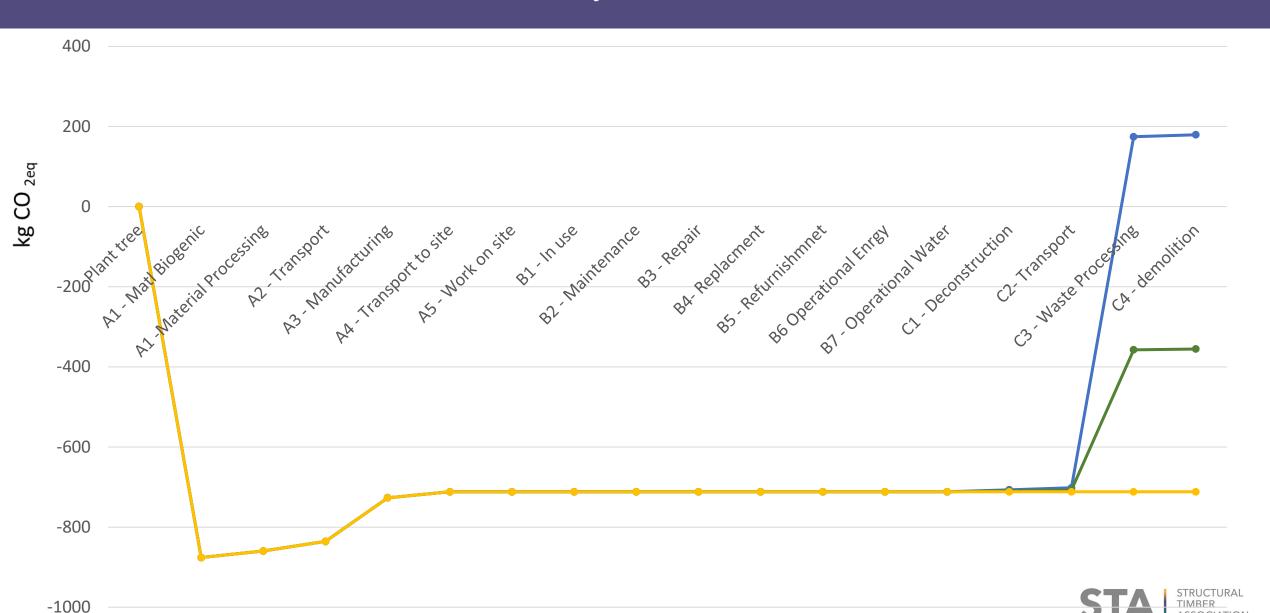




Time Value of Carbon over 60 years



Time Value of Carbon over 120 years

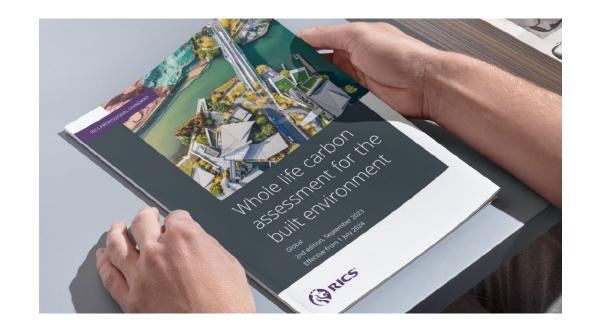


Key recommendations to RICS

- Time value of carbon
- 120 year life

Result:

- Benefit of carbon storage is recognised
- Time value of carbon in Appendix N as an additional method





What next...

Concept & Design phase WLCA calculations

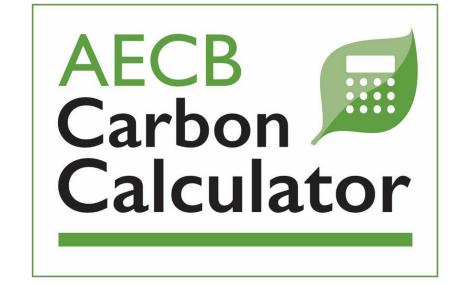
Source generic EPDs for the sector (per metre squared)

- Walls
- Floors

To complement the work with the Future Homes Hub

Construction and Post-Completion phase

Investigate adapting the AECB carbon calculator so that members can use it give accurate calculations that can be used by WLCA assessors—with an option of showing the time value of carbon





Recommendations to you

- Be prepared
- WLCA and EPDs are coming
- Government to seek views -could be this year
- We cannot rely on carbon sequestration although we are still working on it
- Cut carbon now

An industry-proposed amendment to The Building Regulations 2010

Whole life carbon

INDUSTRY-PROPOSED DOCUMENT

Z1 Carbon assessments

Z2 Carbon intensity

Disclaimer: This document is not part of the Building Regulations. It has been produced by and in conjunction with the construction industry as proof of concept in order to demonstrate one way in which embodied carbon could be introduced into UK regulation. For accompanying commentary on this document, visit www.part-z.uk, or contact hello@part-z.uk

Proposal revision 2 31 January 2024

A proposal from the construction industry



