

A REPORT FROM AND PRESENTED BY

Dyann Stewart

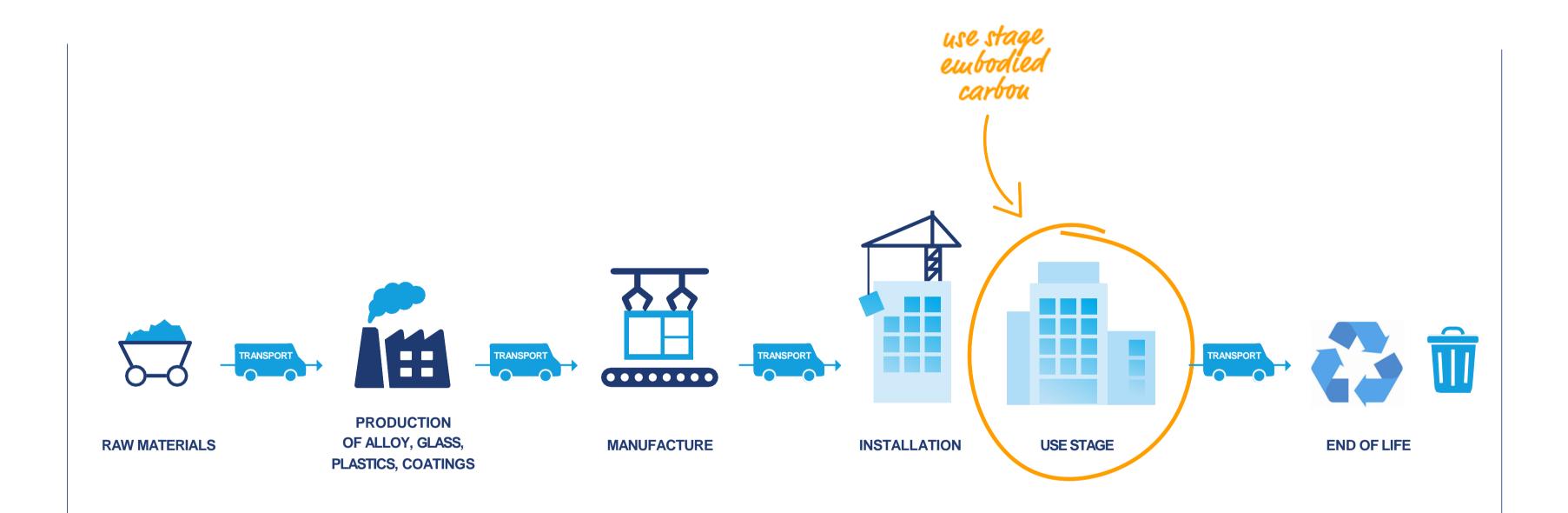
DPS Consulting

COMMISSIONED BY

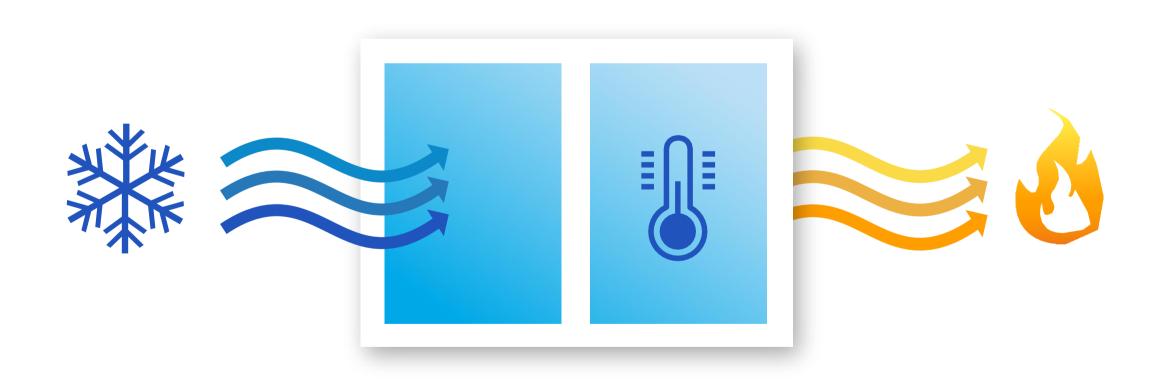
TECHNOFORM



Are we accurately measuring the carbon footprint of the windows and doors available on the New Zealand market?



Current legislation measures only the <u>Operational Carbon</u> (Heating and cooling) component of windows and doors.



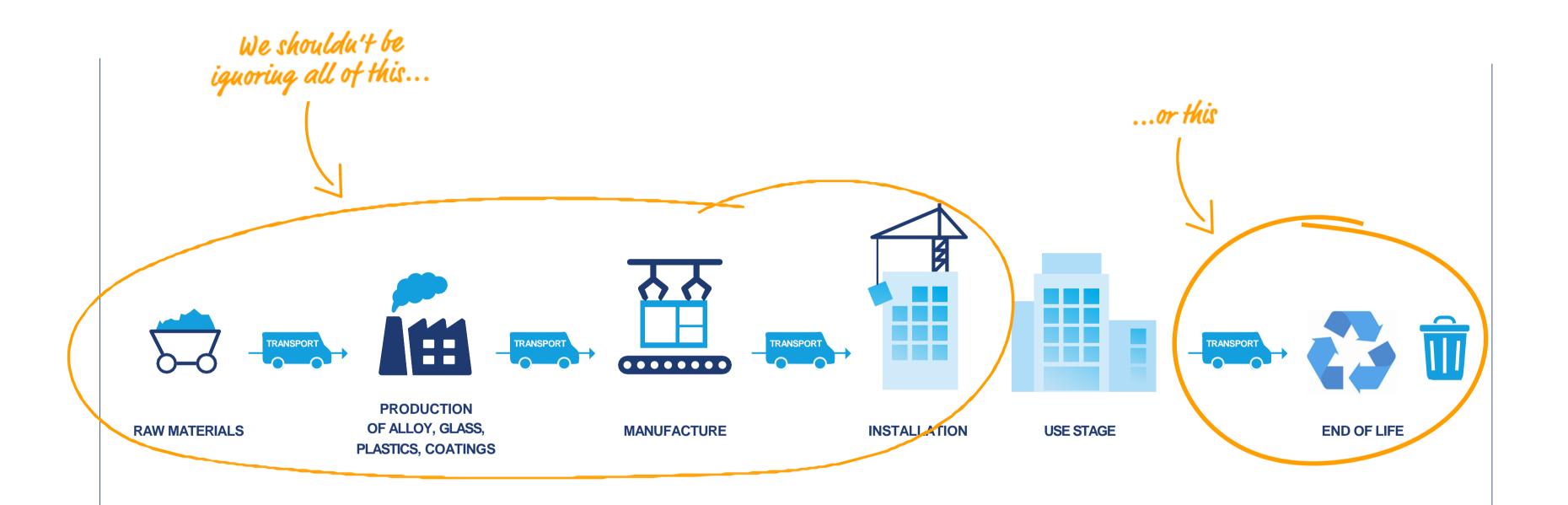


Operational Carbon is just one component of the use stage

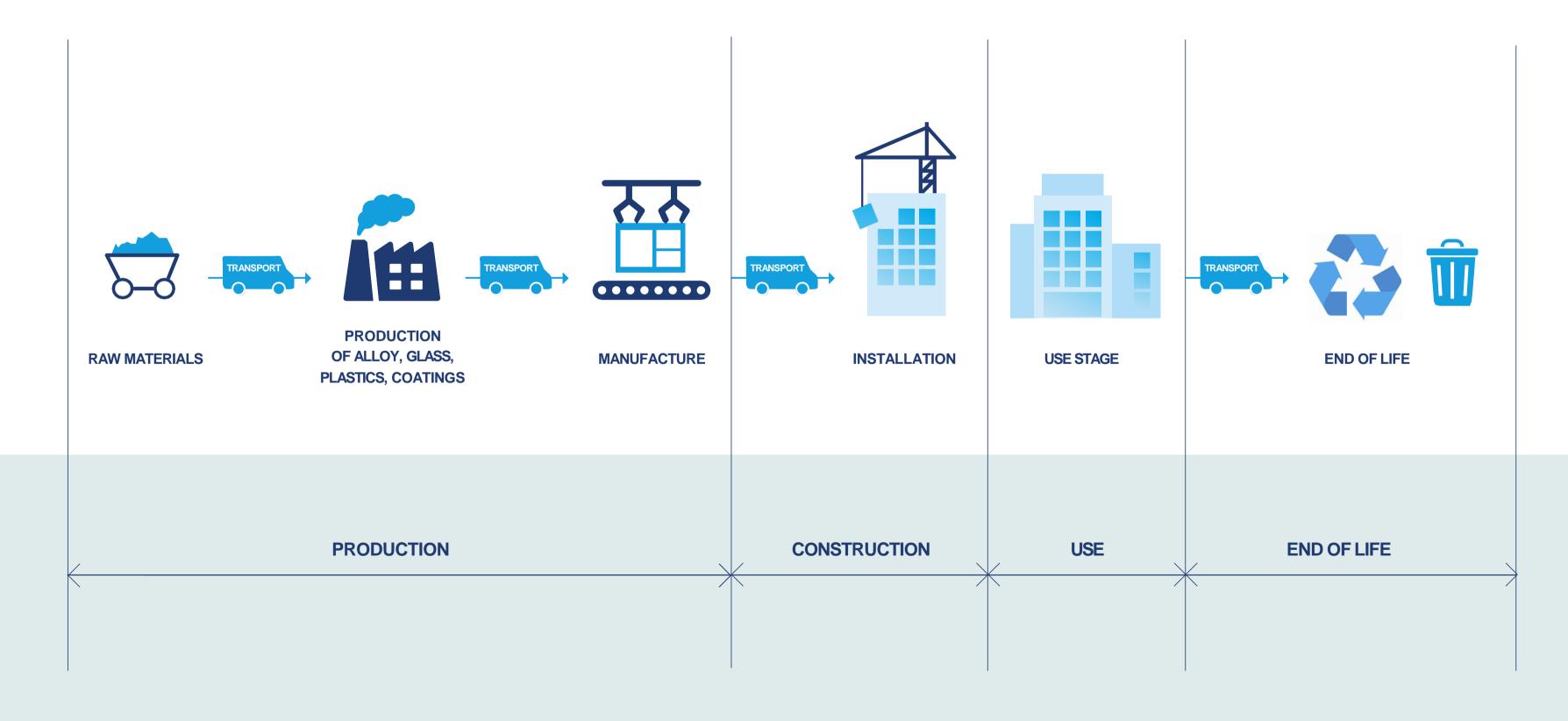
Other factors that influence the use stage, beyond operational carbon, involve the carbon footprint associated with window maintenance and repairs.



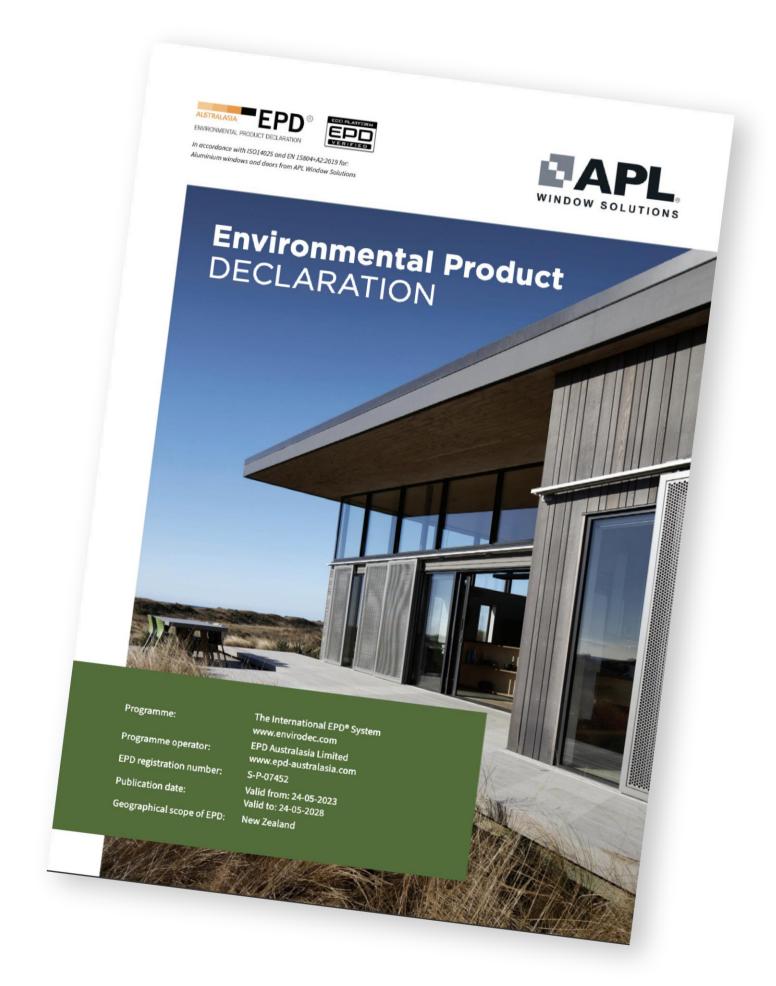




Environmental Product Declarations (EPD'S) measure carbon in a more accurate way by including the full product lifecycle.



There are already a number of
New Zealand manufacturers that
have EPD's specific to the NZ
market.

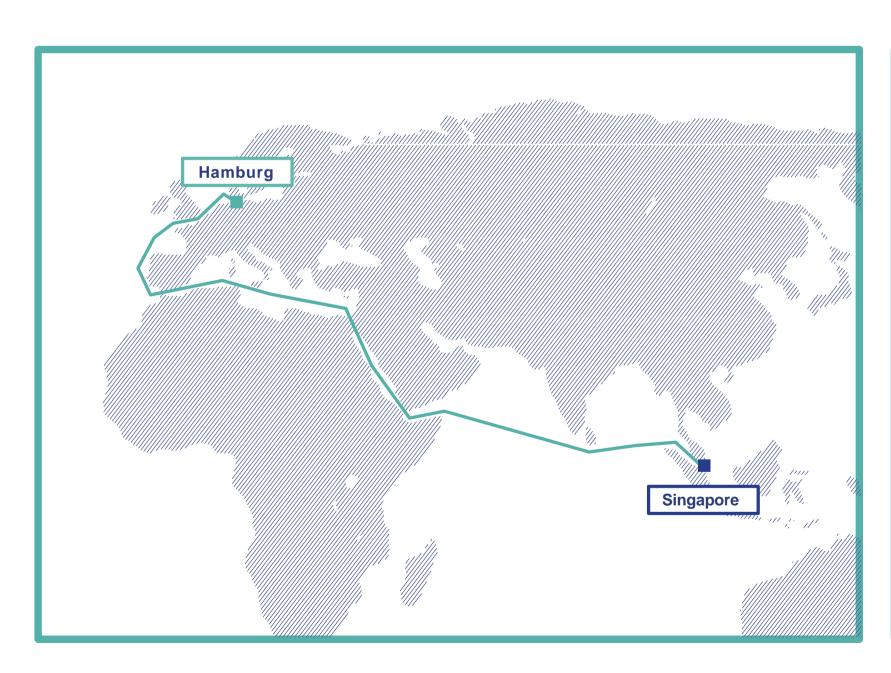


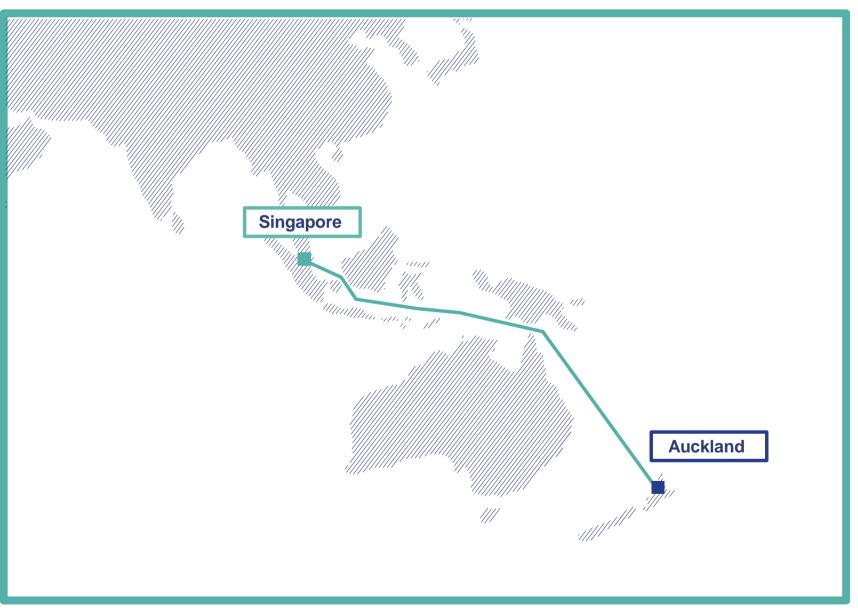
Typically, EPD's supplied with imported products don't include international shipping, which for a country as remote as NZ makes those EPD's misleading.

Total sea journey from Hamburg, Germany to Auckland, New Zealand

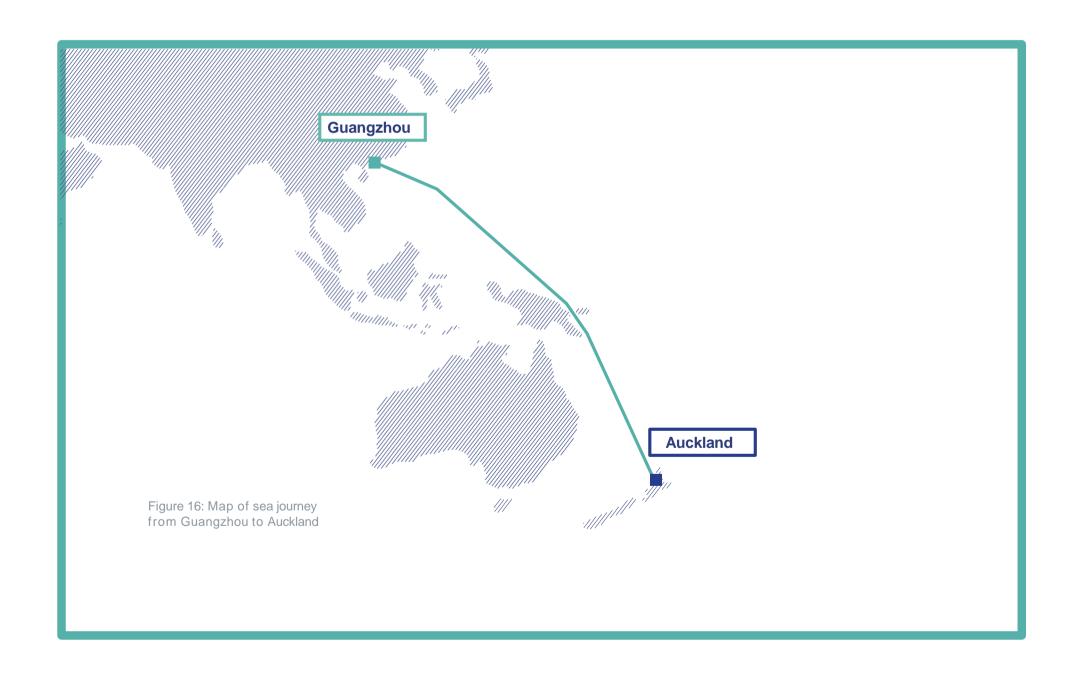
15,718.23 km – Hamburg to Singapore 8,978.99 km – Singapore to Auckland 24,697.22 km

Transit time: 42 days, 19 hours





China's proximity decreases emissions from international transport, yet raw material extraction and manufacturing can yield significant carbon emissions.

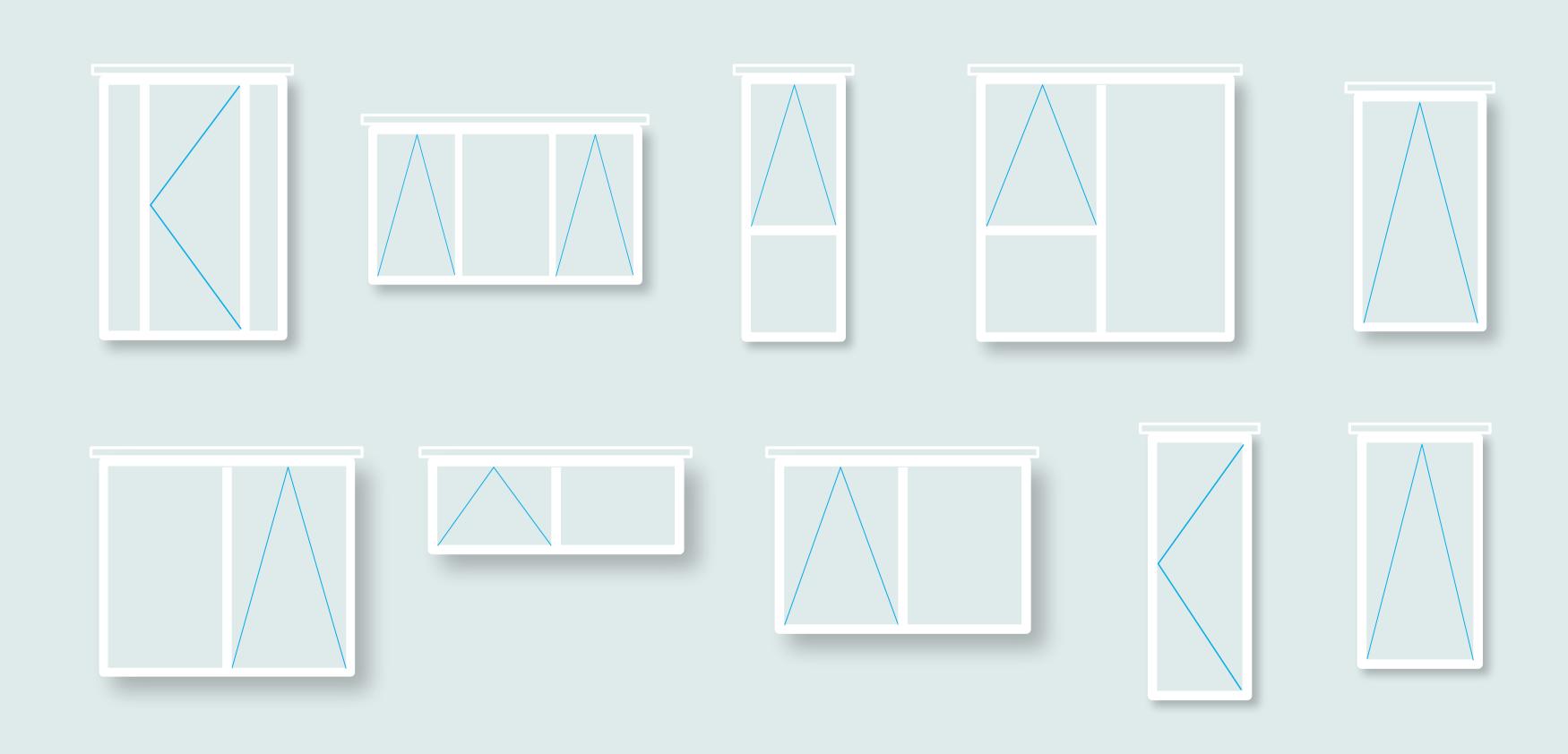


Guangzhou. Guangdong, China – Auckland, New Zealand

(9427.18 km)

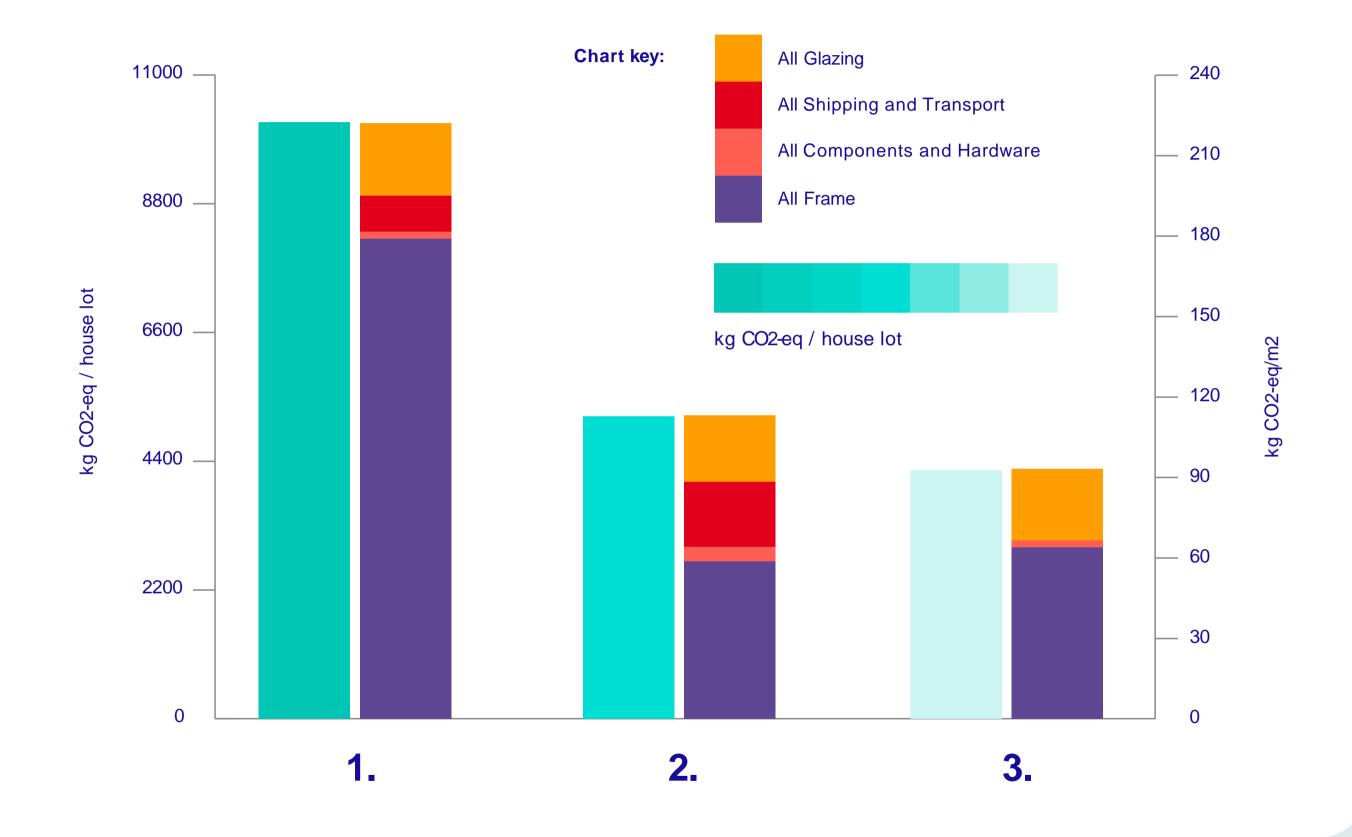
Transit Time: 16 days 7 hours

TECHNOFORM commissioned an independent study to understand the carbon impact of **importing** vs **local manufacture** for house lots of windows and doors.



Carbon analysis of a house lot of joinery sold in New Zealand;

- Manufactured in China
 Aluminium, house lot, made in Guangzhou,
 China and shipped to New Zealand
- 2. Manufactured in Germany
 uPVC, house lot, made in Hamburg,
 Germany and shipped to New Zealand
- 3. Manufactured in New Zealand
 Aluminium house lot, made in New Zealand



HOW CAN THE NEW ZEALAND BUILDING INDUSTRY DO BETTER?

Don't just measure the carbon impacts of the **Operational Carbon**, measure the carbon impacts of the **entire product lifecycle**.

MANUFACTURERS / DISTRIBUTORS

Develop NZ specific EPD's which include the entire product lifecycle including all elements of shipping and transport.

SPECIFIERS

Insist suppliers provide NZ specific EPD's for both locally produced and imported products.

LEGISLATORS

If we're going to measure carbon, let's do it with transparency and accuracy.

Thank you...please download the report using this QR code

