TARMAC
A CRH COMPANY

Carbon Footprint CO_2

Concrete

Date	28/07/2025	Scope	Cradle to Gate

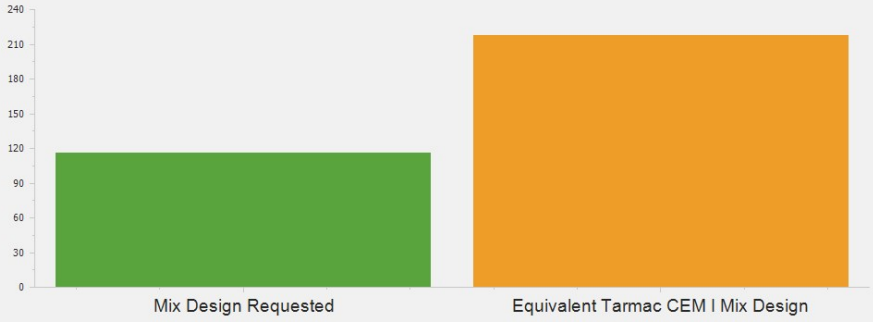
	Mix Design Requested		Equivalent Tarmac CEM I Mix Design
Concrete Grade	C25/30	Concrete Grade	C25/30
Cement Classification	CIIIB	Cement Classification	CEM I
Total Material	42 m^3	Total Material	42 m^3
GCB Carbon Benchmark Rating	1.4	GCB Carbon benchmark Rating	1.4
Carbon Footprint per m^3	116.3 $kgCO_2e/m^3$	Carbon Footprint per m^3	218.4 $kgCO_2e/m^3$
Total Carbon Footprint	4,885 $kgCO_2e$	Total Carbon Footprint	9,173 $kgCO_2e$

Compared to Tarmac **CEM I** equivalent

47%
CO_2 saving vs CEM I

Total CO_2 Reduction

4,288 $kgCO_2e$



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Contact the sustainability team to learn more at sustainability@tarmac.com

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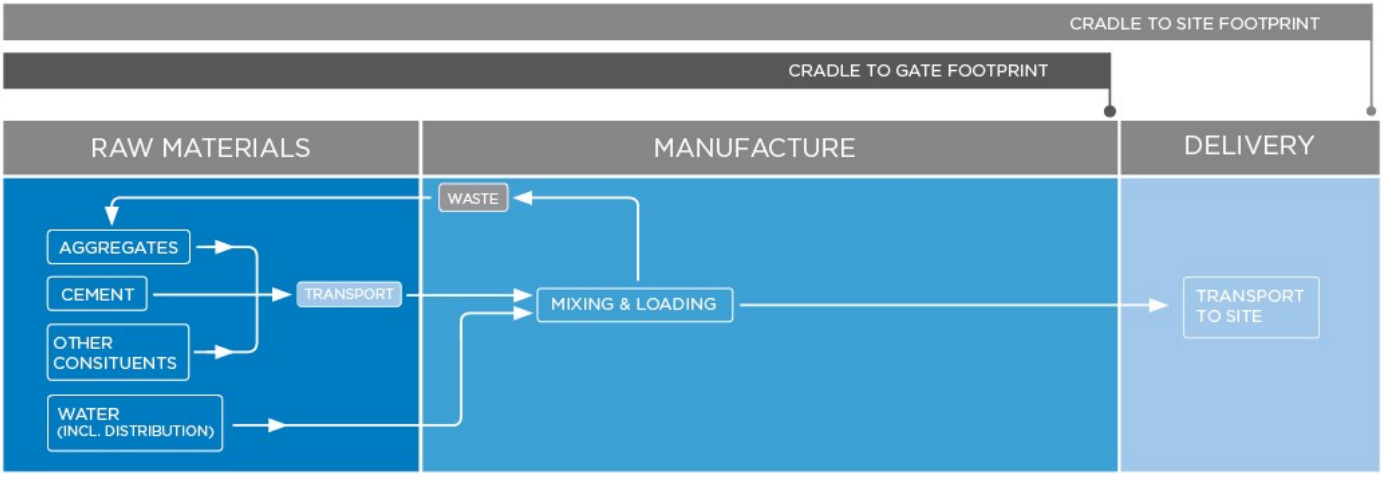
Carbon Footprint

Technical data sheet

How Your Product Carbon Footprint Is Calculated

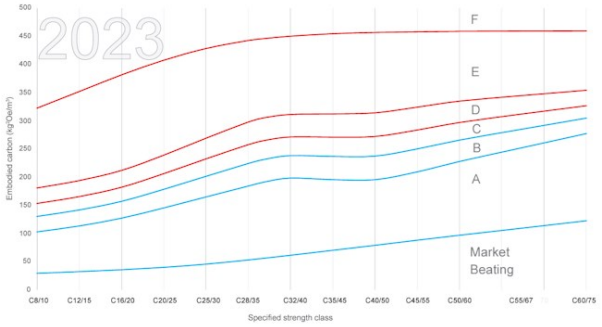


CALCULATION METHODOLOGY

The protocol used by the Tarmac Carbon Footprint Calculator tool is in accordance with BSI PAS 2050:2011 'Specification for the assessment of the life cycle greenhouse gas emissions of goods and services' methodology and the industry standard methodology for asphalt, the Asphalt Pavement Embodied Carbon Tool asPECT v3.0. Total greenhouse gas contributions are expressed as carbon dioxide equivalents (CO2e). This indicative footprint has been created using average data across all Tarmac readymix concrete plants and average mix recipes for each product. The scope of the footprint is 'Cradle-to-Gate' for ex-works footprints and includes greenhouse gas emissions associated with the extraction and processing of raw constituent materials, their transport to the manufacturing plant and the manufacturing of the finished product. The greenhouse gas emissions data used is from annual energy performance for Tarmac mineral extraction and manufacturing operations, and information provided by Tarmac's suppliers. Where supplier specific information is unavailable, relevant information is sourced from trade bodies or the Inventory of Carbon and Energy (ICE) database (Hammond & Jones, November 2019). All other greenhouse gas conversion factors are taken from the relevant year's 'UK Government conversion factors for Company Reporting'. All scopes are included.

GCB Carbon Benchmark Rating

The GCB Carbon Benchmark Rating was created as part of the GCB Low Carbon Concrete Routemap to enable consumers to define "Low Carbon Concrete" in the context of the mixes available in the current market. The benchmark uses concrete carbon data from the previous year to set rating bands from A++ to G (pictured) and is updated annually to ensure the data remains current.



NOTES:

- - The benchmark ratings are based on embodied carbon of normal weight concrete mixes used recently in the UK
- - Performance requirements may make it impractical to achieve some ratings for a particular application.
- - Achieving a rating of A, A+ or A++ through use of a high proportion of GCBS with an associated requirement to significantly increase the total binder content (kg/m3) may not be an effective method of reducing global GHG emissions.
- - Opportunties for reducing the carbon rating may typically be achieved by adjusting type and & of SCM, requirements for early strength gain, consistence, environment (e.g. by use of protective barrier layers) minimum cement content (kg/m3) w/c ratio, use of admixtures, types and grading of aggregates, age at which the specified strength must be achieved, sources of constituents.

For more information on the GCB Low Carbon Concrete Routemap click here.

For more information, please contact the sustainability department at sustainability@tarmac.com

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