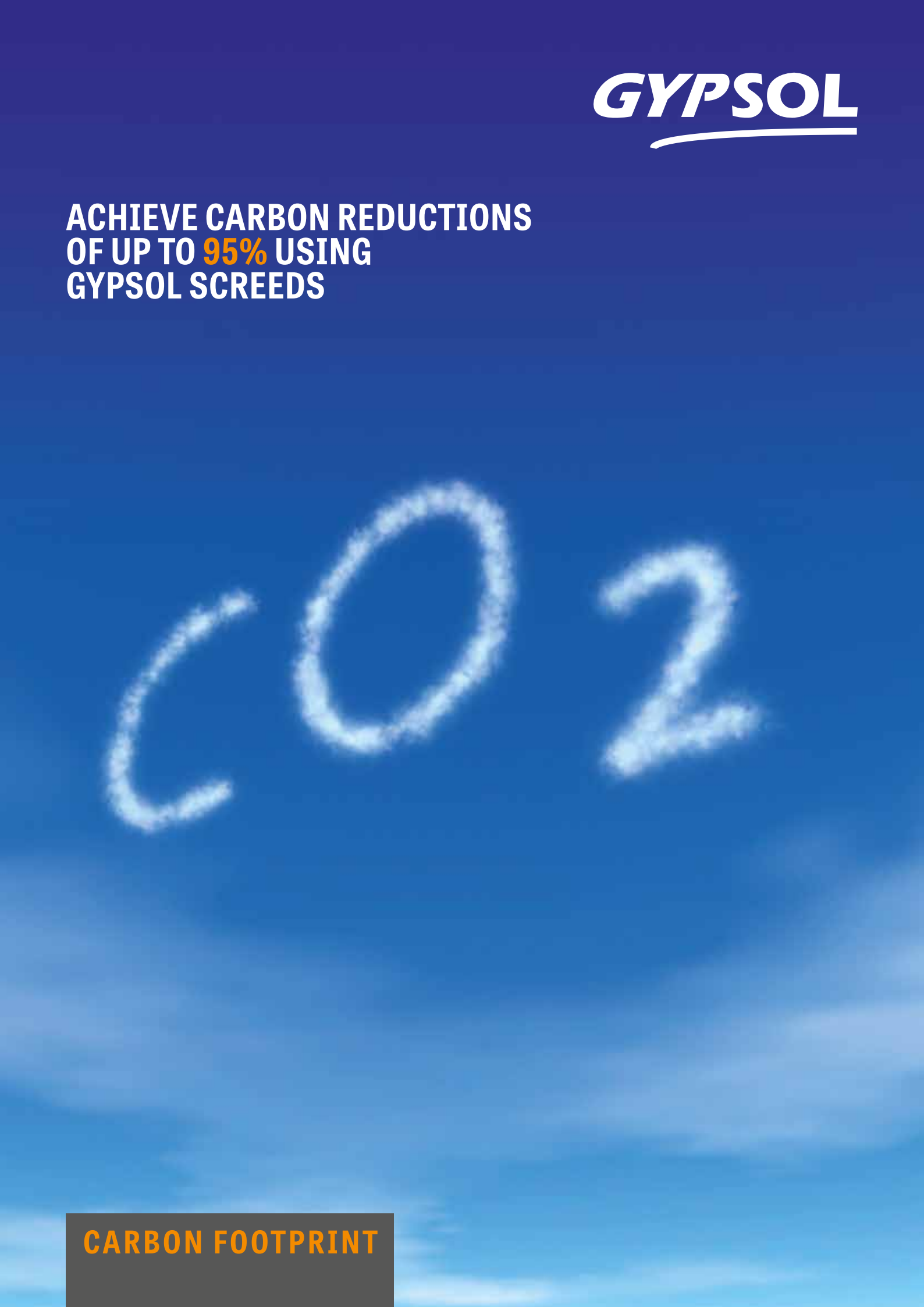
GYPSOL

ACHIEVE CARBON REDUCTIONS OF UP TO 95% USING GYPSOL SCREEDS



CARBON FOOTPRINT

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GYPSOL

DECLARATION

The Calculated Ex Works Carbon Footprint for **Gypsol** anhydrite binder processing operations is no more than

26.26kg of CO_2/tonne of binder produced

The basis for this calculation is the government standard document "2010 Guidelines to DEFRA Greenhouse Gas (GHG) Emissions Conversion Factors"

The Footprint covers the source of Carbon Emissions from relevant business activities; specifically utilities used in production, the delivery of raw materials to site, and associated personnel activities.
The figure represents:

GYPSOL SCREED

Binder/tonne	26.26kg [1]
Screed/m³	38.87kg [2]
Screed/m² (at40mm)	1.13kg

TYPICAL 1:4 CEMENT:SAND SCREED

Binder/tonne	900kg [3]
Screed/m³	281.81kg [4]
Screed/m² (at75mm)	21.19kg

[1] Audited for Francis Flower Limited by T M Consultants, Swadlincote, Derby

[2] Calculated based on normative mix design

[3] Mahasenan, Natesan; Steve Smith, Kenneth Humphreys, Y. Kaya (2003). "The Cement Industry and Global Climate Change: Current and Potential Future Cement Industry CO_2 Emissions". Greenhouse Gas Control Technologies – 6th International Conference.

[4] Aggregate Industries Ltd.

It can be seen from the figures to the left that using **Gypsol** screeds can offer **reductions of around 92%** in terms of the CO_2 emissions associated with the screed itself. Add to this the reductions in landfill, as well as the improvements in the thermal performance with or without underfloor heating, and it can be easily seen that **Gypsol** screeds are the perfect choice for any environmentally responsible construction project helping to achieve your BREEAM rating.

TYPICAL POTENTIAL CO_2 SAVINGS

(in comparison with 1:4 cement sand screed used floating in accordance with BS EN 8204:1:2003)

House	50m²	without underfloor heating	saves up to 850kg CO_2
		with underfloor heating	saves up to 1,000kg CO_2
Large House	150m²	without underfloor heating	saves up to 2,600kg CO_2
		with underfloor heating	saves up to 3,000kg CO_2
Primary School	2,500m²	without underfloor heating	saves up to 42,500kg CO_2
		with underfloor heating	saves up to 50,000kg CO_2
Hospital	12,000m²	without underfloor heating	saves up to 203,000kg CO_2
		with underfloor heating	saves up to 233,000kg CO_2

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