

GYPSOL

**ACHIEVE CARBON REDUCTIONS
OF UP TO 95% USING
GYPSOL SCREEDS**

CO₂

CARBON FOOTPRINT

DECLARATION

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

26.26kg of CO₂/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] Mahasanan, Natesan; Steve Smith, Kenneth Humphreys, Y. Kaya (2003). "The Cement Industry and Global Climate Change: Current and Potential Future Cement Industry CO₂ 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 CO₂ 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 CO₂ SAVINGS

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

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

