

AFRISAM INTRODUCES INDUSTRY FIRST: CO₂-RATED CEMENT

AFRISAM HAS ANNOUNCED the introduction of a carbon footprint (CO₂) rating stamp that will appear on every bag of cement that it sells.

In yet another pioneering step for this organisation, AfriSam has developed a relative CO₂ footprint system which calculates the CO₂ associated with the production of every kilogram of cement of each main AfriSam cement type from its various production facilities. This initiative

is based on the Cement CO₂ Protocol, which is closely aligned to the overarching Greenhouse Gas Protocol developed under a joint venture of the World Resources Institute and the World Business Council for Sustainable Development. Currently, the world average emission of CO₂ per kilogram of cement is 890 g as per Cembureau.

The model developed by AfriSam not only takes specific types of direct and indirect emission into account, but also weighs up the effects of interplant transportation. Emission calculations and summations are based on a "cradle-to-gate" approach, where the "gate" is the factory gate.

In the cement manufacturing process, roughly 60% of the CO₂ emitted is from the process (the decarbonation of limestone) and

40% from fuels. Interplant transportation emissions come into play where cement is processed at more than one facility.

"Although cement remains one of the top three commodities consumed in the world, we are well aware of the impact that cement production has on the environment. We have made the reduction of carbon emissions a priority for AfriSam for more than a decade and will continue to strive to improve our efficiencies and lower our emissions by 2% every year," says Stephan Olivier, Chief Operating Officer, AfriSam Cement Operations.

The actual value of CO₂ associated with manufacturing and transporting each individual product will soon be printed on all AfriSam cement bags, and this will be clearly visible to the end-user. The bag will carry a CO₂ barometer insignia indicating emissions in comparison with the world average of 890 g/kg. Characteristics of low-CO₂ cement could include low fuel consumption, high mineral component extension (fly ash and ground granulated blast furnace slag

1 CARBON FOOTPRINT



ALL PURPOSE CEMENT 527 g/kg

AfriSam is committed to reducing its carbon footprint.
CO₂ statistics are calculated in accordance with the World Building Council for Sustainable Development's Cement Sector Initiative for CO₂ protocol.

CARBON FOOTPRINT



ECO BUILDING CEMENT 453 g/kg

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CO₂ statistics are calculated in accordance with the World Building Council for Sustainable Development's Cement Sector Initiative for CO₂ protocol.

1 Examples of the CO₂ rating stamps that will appear on every bag of cement sold by AfriSam

[GGBS] or a combination thereof within SABS standard requirements) and low clinker content.

Commenting on the way forward, AfriSam's Marketing Manager, Victor Bouguenon, says, "We see the reduction of CO₂ as an urgent responsibility for industry in general. We believe that this initiative is a first in the world for the cement industry and encourage other producers to follow suit."

► INFO

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