

CLIMATE DECLARATION

FOR PORTLAND CEMENT CLINKER

Declared unit: 1 tonne of portland cement clinker

The climate declaration shows the emissions of greenhouse gases, expressed as CO₂-equivalents. It is based on verified results from a life cycle assessment (LCA) performed as basis for an EPD®, in accordance with ISO 14025.

Information about the product

Cement clinker is a solid material produced in the manufacture of portland cement as an intermediary product. Clinker occurs as lumps or nodules, usually 3 millimetres to 25 millimetres in diameter.

Portland cement clinker is ground to a fine powder and used as the binder in many cement products. A little gypsum is sometimes added. Clinker, if stored in dry conditions, can be kept for several months without appreciable loss of quality.



Information about the company

Medcem Cement Factory, a subsidiary of Eren Holding, started production in July 2015 in Akdere/Silifke district of Mersin province. With a daily production capacity of 11,500 tons of clinker, Medcem Çimento is the biggest cement factory of Turkey and Europe with the highest production volume on a single line.

The stability of the raw material quarries of Medcem and their closeness to the factory are the biggest guarantee of continuous and high-quality production. With its high capacity rotary kiln and high quality clinker production, Medcem is one of the biggest supplier brands in the global market.

Climate Declaration

The table below shows the emissions of greenhouse gases, calculated as carbon dioxide equivalents (kg CO₂ eq.) for 1 tonne of portland cement clinker. The included life cycle stages are raw material supply, transport and product manufacture (A1-A3), and transport to site (A4). Other modules are not included.

| Product Stage (A1-A3) | Construction/EoL (A4) | TOTAL |
|------------------------------|-------------------------------|------------------------------|
| 908E+00 kg CO ₂ e | 33.1E+00 kg CO ₂ e | 941E+00 kg CO ₂ e |

Other environmental information

This declaration is limited to the impact on climate change by emissions of greenhouse gases. Further information about other relevant environmental aspects is available in the EPD® at www.environdec.com and www.epdturkey.org.

Contact information

Ataşehir Bulvarı, Metropol İstanbul, C-2 Blok,
34758, İstanbul/TURKEY

Tel: +90 (216) 606 37 37

www.medcem.com.tr



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| INDEPENDENT VERIFICATION OF THE DECLARATION AND DATA, ACCORDING TO ISO 14025: doc. Ing. Vladimír Kočí, Ph.D, INDIVIDUAL VERIFIER | | APPROVED BY: THE INTERNATIONAL EPD® SYSTEM | |
| LINK TO MORE INFORMATION: https://www.environdec.com/library/epd2229 | | | |
| CLIMATE DECLARATIONS FROM DIFFERENT PROGRAMS MAY NOT BE COMPARABLE | | | |