Pure Green Cement

Data and assumptions in film

Density of carbon dioxide gas¹ at 1 atm (101,325 Pa) and 15 °C: 1.8714 kg.m⁻³

Emissions from cement²: 2,214 MtCO₂.yr⁻¹

Cement carbon intensity³: 0.54 kgCO₂.kgCement⁻¹

Density or Bulk density (kg.m⁻³)

General purpose blended cement 1,300
Sand or coarse aggregate 1,600
Water 1,000
Concrete 2,300

Cement recipe

Proportion by mass

Cement 22%
Sand 44%
Aggregate 22%
Water 12%



¹ Air Liquide Gas Encyclopaedia https://encyclopedia.airliquide.com/carbon-dioxide

² IEA (2020), Cement, IEA, Paris https://www.iea.org/reports/cement

³ Ibid