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(57) Abstract:

Despite the fact that concrete is the most frequently used building material on the planet today, it produces a considerable quantity of CO2. Despite the fact that concrete is the most often utilized construction material on a global scale nowadays. When RCA is utilized to generate RAC, the material's mechanical and environmental performance characteristics are thoroughly investigated. Three blends comprising recycled concrete aggregates were constructed, as well as a natural aggregate mix (RCA). It has been discovered that using RCA rather of conventional approaches reduces rubbish entering the environment by up to 30%. The Life Cycle Assessment technique has been used to undertake environmental studies (LCA). According to the findings, recycled concrete can cut carbon emissions in half when compared to new concrete, and the strength of the mortar that holds it together is highly dependent on its quality.

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