



earth  
4Earth

*Life cycle carbon negative  
and fully recyclable materials*



# Made from our earth, for our Earth

We are leading a revolution in the construction industry by developing building materials that are 100% sustainable, carbon negative and completely recyclable.



Our earth-based products absorb CO<sub>2</sub> throughout their life cycle and can be returned to the soil at end of life.

This provides a practical and efficient solution to reaching net zero and even enables construction projects to become carbon negative.

Our products have properties that are superior or comparable with commonly used building materials and are available at a similar cost.



# Our products

**Our earth-based bricks are made using excavated soil, which would otherwise go to landfill.**



Lime is used as a binder/stabiliser to enhance the mechanical properties and durability of our bricks.

Whilst conventional lime is produced at high temperatures, releasing significant CO<sub>2</sub> emissions, earth4Earth has developed a novel process for lime production where no direct CO<sub>2</sub> emissions are released.

At end of life, our bricks can be crushed and returned to the earth for crop growth.

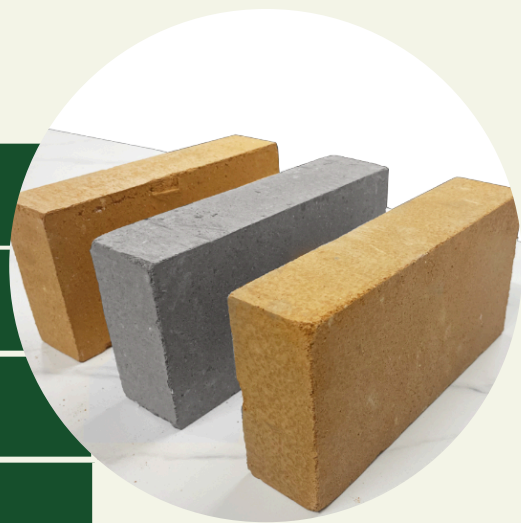
# Your design

With good durability, excellent thermal mass and fire resistance, our bricks are suitable for a range of projects, including:

*Commercial buildings – Infrastructure – Housing projects – Freestanding walls – Paving – Interior & Garden design*

## Product specifications:

Dimensions	215mm x 102.5mm x 65mm
Weight (approx.)	3kg
Main components	Soil, Sand, e4E Lime
Minimum compressive strength	7.5N/mm <sup>2</sup>



We have three types of bricks, based on their carbon sequestration potential, as shown below:

Brick	Service life CO <sub>2</sub> sequestration potential
N10 (10% e4E lime)	approx. 34g per kg of brick
N20 (20% e4E lime)	approx. 79g per kg of brick
N30 (30% e4E lime)	approx. 124g per kg of brick

# Our DCUS technology



## **Decarbonisation:**

Lime is produced with no direct CO<sub>2</sub> emissions

**Capture:** CO<sub>2</sub> is captured by our bricks during service life

**Usage:** The material is improved by the captured CO<sub>2</sub>

**Storage:** Permanent CO<sub>2</sub> storage during and after the building life

**Find us on 2050  
materials**

## **Contact us**

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