

eVOBUILD

Low carbon concrete



A global approach to product sustainability

One vision, one range

As one of the world's largest integrated manufacturers of building materials and solutions, decarbonisation and circularity are core to our business.

With the launch of evoBuild, our new global brand for low carbon and circular products, we're setting new standards for sustainable building materials and pioneering our industry's path towards net zero and the circular economy.

One of our key targets is to generate 50% of our global revenue through sustainable products by 2030. We're working intensively to develop innovative materials that meet the highest quality standards over their entire lifecycle and are produced using environmentally as well as socially responsible methods. Through resource efficiency, co-processing of waste materials, and concrete recycling, we can actively drive the circular economy within our industry.

50%

of Group revenue to be generated with sustainable products by 2030



360 metric tonnes of recycled material were used for the construction of the innovative new building of the Environmental Education Center in Mainz, Germany.

Verified carbon reduction and recycled content

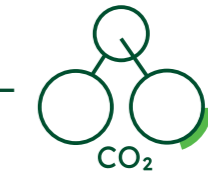
All evoBuild products have clear sustainability credentials. Each product must meet strict requirements to become part of the range.

These requirements are clearly defined within an internal environmental, social and governance (ESG) procedure and constitute the basis for evoBuild product qualification.

evoBuild products are either low carbon, circular or feature a combination of both attributes. Low carbon products must provide a CO₂ reduction of at least 30% compared to the reference value. Circular products must either contain at least 30% recycled content or use at least 30% less material. The evoBuild standards apply to products in cement, ready-mixed concrete, aggregates and asphalt.

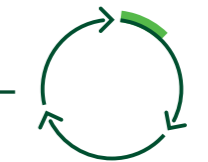
evoBUILD

products must fulfil one or more of these criteria



30% Low carbon cement

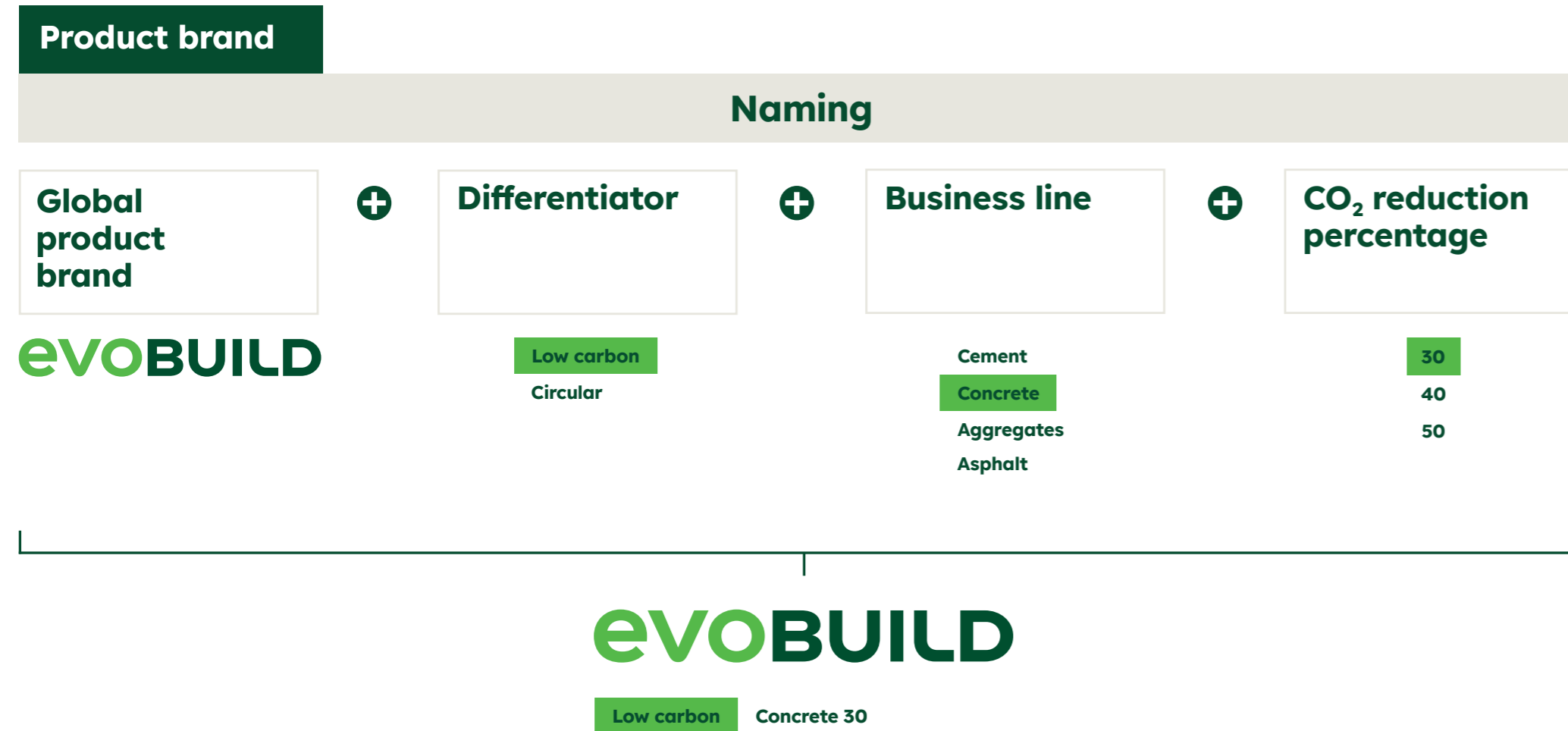
30% Low carbon concrete



30% Circular products: reuse materials
30% recycled content

30% Circular products: reduce materials
30% less material

Example transition to evoBuild for low carbon products



evoBUILD

Low carbon concrete

Heidelberg Materials UK offer

Heidelberg Materials UK has developed a range of evoBuild low carbon concretes to make it easier to specify low carbon concretes and target carbon reduction on all construction projects.

evoBuild low carbon concretes offer a CO₂ reduction of at least 30% compared to a fixed Global Cement and Concrete Association (GCCA) reference value¹.

There are three levels in the current range:

evoBuild low carbon concrete 30 – available from C20/25 grade strength and reduces CO₂ by 30% compared to the reference.

evoBuild low carbon concrete 40 – available from C25/30 grade strength and reduces CO₂ by 40% compared to the reference.

evoBuild low carbon concrete 50 – available from C32/40 grade strength and reduces CO₂ by 50% compared to the reference.

All our mixes offer high quality and reliability but with the benefit of significantly reducing CO₂ emissions. Wherever possible we use recycled water to produce evoBuild, adding to its sustainability credentials.

Key benefits:

- Reduces the carbon emissions associated with concrete by between 30-50% against a fixed GCCA reference.
- Verified indicative Global Warming Potential GWP values provided for each mix.
- Easy to use and place.
- Suitable for use in all applications, including reinforced and unreinforced concrete.
- Unchanged construction process.
- Complies with BS 8500 and BS EN 206-1.
- Creates concrete with a lighter, more aesthetically pleasing colour.
- 100% recyclable at end of life, contributing to the circular economy.
- Available nationwide from our network of static and mobile ready-mixed concrete plants.

¹The evoBuild reference value is at least 30% CO₂ reduction vs. the global reference values from the Global Cement and Concrete Association (GCCA) for CEM I from 2020, which translates to ≤552 kg CO₂/t cementitious material and ≤ 5.5 kg CO₂/m³/MPa for ready-mixed concrete.

For the reconstruction of the Genoa bridge in Italy, Heidelberg Materials used cement with about 40% of recycled material and a significantly lower CO₂ footprint.



evoBUILD

Carbon visibility and data

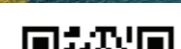
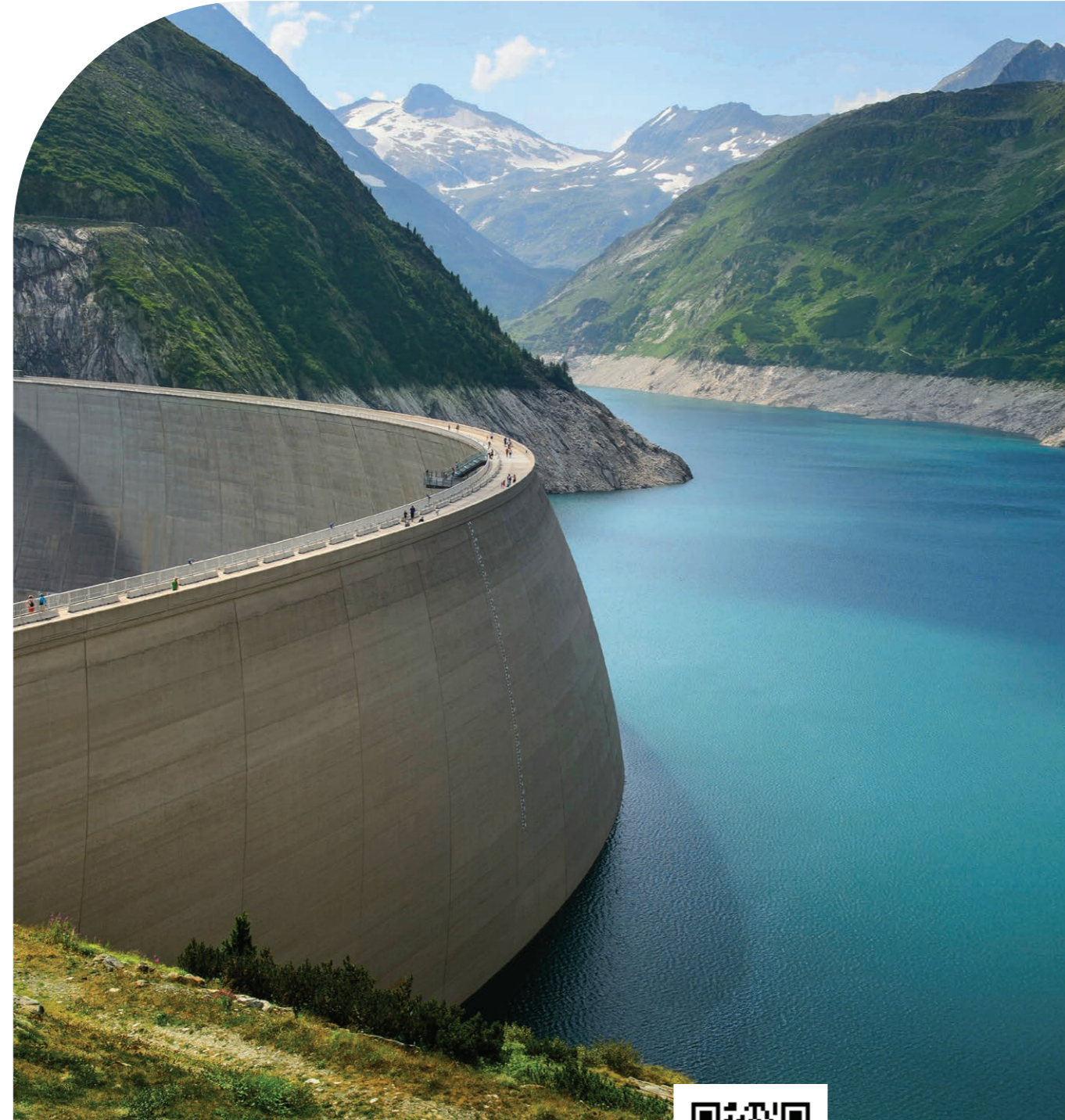
Heidelberg Materials UK is PAS 2080:2023 certified and is committed to managing carbon data for the delivery of sustainable construction in buildings and infrastructure.

At quotation stage for each evoBuild low carbon concrete mix, we can provide gross and net values of indicative global warming potential (GWP) in $\text{kg}/\text{CO}_2/\text{m}^3$ for modules A1-A3².

This allows the customer to make informed choices regarding reducing carbon.

A post-delivery carbon scorecard can also be provided allowing customers to track the total carbon contribution of the concrete to their build in $\text{kg}/\text{CO}_2/\text{m}^3$ by product.

²The GWP values provided for evoBuild and the calculation process are 3rd party verified as meeting the scope of EN 15804 modules A1-A3. Indicative values are provided, as mix designs and raw material GWP values can change over time.



Need more information?

If you have any questions about evoBuild, please get in touch. We will gladly explain the available specifications and possible areas of application or discuss how evoBuild can be used for your sustainable building project.

Please send your enquiries to marketing@uk.heidelbergmaterials.com

evoBUILD

evoBuild products can make a valuable contribution to lowering your building project's carbon footprint.



www.heidelbergmaterials.co.uk/en/evobuild

evozero

You may also be interested in evoZero, the world's first carbon captured net zero cement.



www.heidelbergmaterials.co.uk/en/evozero



Heidelberg Materials UK

Arena Court
Second Floor
Crown Lane
Maidenhead
SL6 8QZ

heidelbergmaterials.co.uk