

Kellen CERO - Low CO₂ Paving



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Kellen CERO utilises geopolymer technology to deliver CO₂ from just 7.3kg* per m².

Globally, cement accounts for approximately 8% of all CO₂ emissions. By replacing much of the cement with an alternative binding agent, Carbon content in our CERO options is reduced by 50% compared to standard Kellen, already a leading environmentally friendly natural stone-topped concrete.

Geopolymer technology uses an alkaline activator and secondary raw materials to produce exactly the same Kellen block that has been used in the last 12 years and has produced some of the most exemplary public spaces throughout the UK and Ireland. There's a huge range of colours, finishes, sizes and thicknesses available across the Kellen range, with over 100 available in the CERO geopolymers that deliver extraordinarily low CO₂ ratings from 9.4kg CO₂/m² on 80mm thick slabs.

Traditional Concrete

Water is mixed with cement (binding agent) and granulate (sand & gravel), fillers and aggregates.



Sand & Gravel



Water



Cement



Sand & Gravel






Water & Alkaline Activator



Fly Ash or Blast Furnace Slag

Environmental Benefit of Using Kellen CERO

Scheme Size	UK Concrete Average (34kg CO ₂ /m ²)	STANDARD KELLEN Average of Lavarò, Breccia (24kg CO ₂ /m ²)	KELLEN CERO Average of Lavarò, Breccia (11kg CO ₂ /m ²)	Equivalent reduction in cars on the road per year (based on UK Average Emissions).
500m ²	17t of CO ₂	12t of CO ₂	5.5t of CO ₂	
2500m ²	85t of CO ₂	60t of CO ₂	27.5t of CO ₂	
5000m ²	170t of CO ₂	120t of CO ₂	55t of CO ₂	

For more information about Kellen CERO click [here](#).

*Figure based on 62mm Lavarò CERO – Other finishes data available upon request.