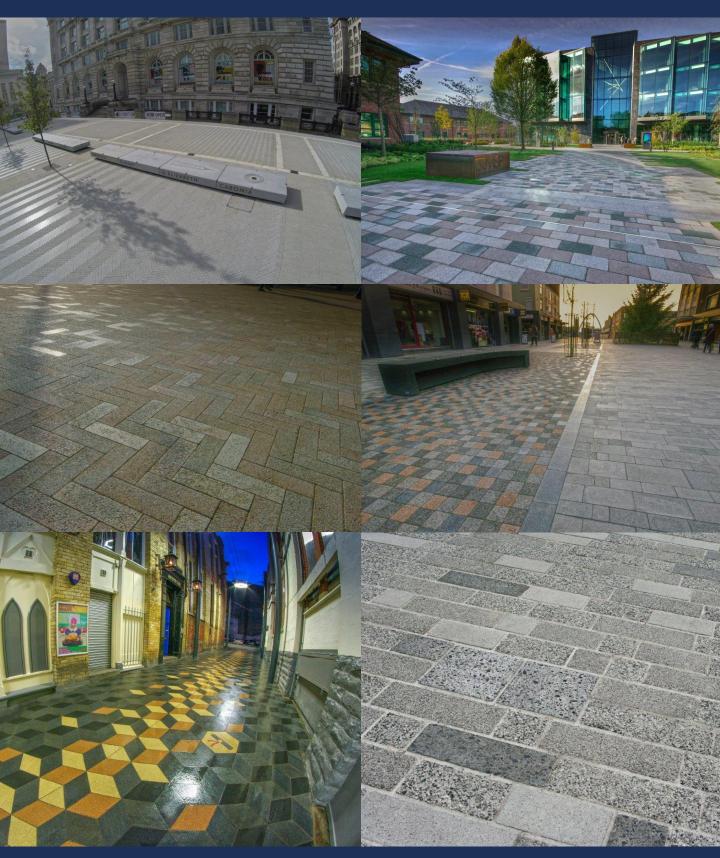


Kellen CERO - Low CO₂ Paving





Kellen CERO - Low CO₂ Paving

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.







Cement

Kellen CERO

High quality secondary minerals are mixed with basic materials (alkaline's) & an activator is added.







Environmental Benefit of Using Kellen CERO

Scheme Size	UK Concrete Average (34kg CO₂/m²)	STANDARD KELLEN Average of Lavaro, Breccia (24kg CO₂/m²)	KELLEN CERO Average of Lavaro, Breccia (11kg CO ₂ /m²)	Equivalent reduction in cars on the road per year (based on UK Average Emissions).
500m2	17t of CO₂	12t of CO₂	5.5t of CO₂	♣
2500m2	85t of CO₂	60t of CO₂	27.5t of CO₂	2222
5000m2	170t of CO₂	120t of CO₂	55t of CO₂	