



**20% Reduction in CO<sub>2</sub>**



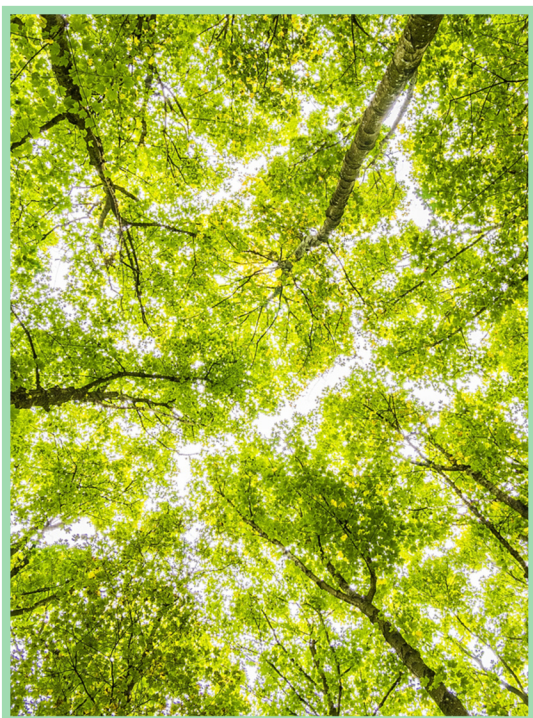
**No Impact on Performance**

CemLime is a locally sourced, supplementary cementitious material (SCM) that can **replace cement content by up to 20% in concrete**, producing a lower carbon cement without detriment to concrete performance.

Both our Interlocking Blocks and Solid Dense Blocks are now utilizing up to 20% CemLime, **generating significant carbon savings.**

**Producing 1 tonne of cement emits 840kg of CO<sub>2</sub>**  
**Producing 1 tonne of CemLime® emits only 8kg of CO<sub>2</sub>**

*Saving 1,000 kg of CO<sub>2</sub> is the equivalent of taking a car off the road for 6 months*



After water, concrete is the most widely used substance on earth and is the source of approximately 8% of the world's carbon dioxide emissions. **Making the impact of our new innovative product vast.**

**Get in touch today and see how CemLime can help you achieve your environmental goals.**

✉ [sales@leiths-group.co.uk](mailto:sales@leiths-group.co.uk)

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**Building a Brighter Cleaner Future**

**LEITHS**  
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# Building an average home using CemLime blocks reduces CO<sub>2</sub> output by 382kg!

That's the equivalent of turning off 23,000 light bulbs for an hour!

- Our Interlocking Blocks at 50 MPa use up to 20% CemLime at a CO<sub>2</sub> saving of 78kg/m<sup>3</sup>.
- Our Solid Dense Blocks at 7.3 MPa use up to 20% CemLime at a CO<sub>2</sub> of 27kg/m<sup>2</sup>

**CemLime<sup>®</sup> production is certified by BSI to ISO 9001**  
**CemLime<sup>®</sup> has been conformity assessed to BS 7979**



We have obtained full UKCA Certification for CemLime. It has been approved for use in combination with CEM I Portland cement strength class 42.5 or higher conforming to BS EN 197-1 as a component of concrete, mortar or grout.

Please see the table below for a summary of characteristics for our 100mm and 140mm Blocks.

		100mm Block		140mm Block	
Essential Characteristics		7.3N	10.4N	7.3N	10.4N
Dimensional Tolerance		D1 (Flatness NPD, Plane Parallelism NPD)			
Configuration	Group per EN 1996-1-1 (EC6)	Group 1			
Compressive Strength	Mean strength, N/mm <sup>2</sup>	7.3	10.4	7.3	10.4
	Unit Category	Category 1			
Dimensional Stability	Moisture movement, mm/m	0.4	0.4	0.4	0.4
Bond Strength	Shear bond strength, N/mm <sup>2</sup>	0.15	0.15	0.15	0.15
	Flexural bond strength	NPD	NPD	NPD	NPD
Reaction to Fire		A1 (Commission Decision 2000/605/EC)			
Water Absorption, g/m <sup>2</sup> s		9.8	9.8	9.8	9.8
Water Vapour Permeability		5/15	5/15	5/15	5/15
Density	Gross dry density, kg/m <sup>3</sup>	2030	2000	2030	2000
Thermal Conductivity, W/make	(A10, dry) p = 50%	1.1	1.1	1.1	1.1
	(A10, dry) p = 90%	1.3	1.3	1.3	1.3
<i>Designated Technical Specification: BS EN 771-3: 2011+A1: 2015</i>					

MPa (2022), UK Average CEM I, Environmental Product Declaration.

Statista (2024), Carbon dioxide emissions from the manufacture of cement worldwide from 1960 to 2023.

DT GEN (2024), FloGas, Carbon Savings.



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