# Low Carbon Concrete

- Concrete is the Second most consumed material on the planet (second only to water).

- Normal concrete has a very high carbon footprint due to the cement which is formed by burning limestone at very high temperatures. Replacing 30-50% of the cement with fly ash or slag substantially reduces the carbon footprint.

- Using 10m3 of low carbon concrete has a potential **CO2 Saving of 3.3 Tonnes** and is equivalent to:
    - Making 652,060 cups of tea
    - Flying 1,890 Kilometres by plane
    - Driving 10,770 miles

- The strength of low Carbon concrete is ordered in the same way as a standard mix *(GRADE: C25 CONCRETE. Strength: 25 Newtons after 28 days).*

- Lower heat generation & hence reduced risk of cracking

- Certification issued to demonstrate meeting the requirements of The Carbon Neutral Protocol.

- The cost difference is between approx. 6% and 8% over standard concrete mix prices.

## Restrictions

- The location of concrete batching plant may be a limiting factor.
- The manufacturer's data did indicate that it does take longer to set and achieve designed strength, but we found in practice it cured similarly to conventional concrete. If this is an important factor, concrete cube tests should be organised.

**For More Information Contact – Brian Street (AstraZeneca) 07724 120993**