



## **TECHNICAL INFORMATION FIRE**

### **BUILDING REGULATIONS : APPROVED DOCUMENT PART B “FIRE”**

Concrete structures have an inherent fire resistance due to their high thermal conductivity and incombustibility. However, all concretes are not the same with some concretes performing better in a fire compared to others. Spalling during a fire has also been identified as a possible problem in concrete structures. Although correctly designed concretes are unlikely to spall.

The following would be of benefit to designers, approving bodies and clients. It presents the fire ratings obtained by Carter Concrete Ltd products and guidance on what resistance to fire is required for various construction elements.

Tables for fire resistance of general pre-stressed concrete units are enclosed taken directly from BSEN1992-1-2 which provides some simplistic and generic guidance on the thermal and mechanical properties of concrete, which can be used for design.

Carter Concrete Ltd products can be used with confidence as a solution to obtaining the required fire resistance

**The science of obtaining Fire Resistance are complicated and constant monitoring of data etc. is required.**

**To obtain the required rating for your building contact our Engineer Robin Watts for assistance.**