


**Pulverised Fuel Ash in Concrete**

The technical and environmental benefits of using Pulverised Fuel Ash (PFA) as a partial replacement for Ordinary Portland Cement (OPC) in concrete are well established. However, it is necessary to ensure effective curing; in cold weather, in particular, very early strengths may be lower than equivalent OPC mixes.

2. The use of PFA as a partial cement replacement in concrete is permitted on the following conditions :

- (a) PFA as a separate constituent may be used only with OPC and should comply with BS 3892: Part 1:1982, except that the criterion for maximum water requirement may not apply;
- (b) Blended cement containing PFA should comply with BS 6588:1985 and have a nominal PFA content not exceeding 25%;
- (c) The PFA content should not exceed 25% by mass of the cementitious content (OPC plus PFA) of the concrete. Any higher replacement level is subject to approval upon detailed submission with justification on the use and the characteristics of the finished concrete; and
- (d) The Authorized Person/Registered Structural Engineer should specify the PFA content and extent of its use in the structural submissions and should satisfy himself that the contractor and concrete supplier have adequate quality control measures to ensure that the finished concrete complies with the specifications and statutory requirements in all respects.



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Building Authority

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