Planning Application proposal:

Site Ref: 28 Westcote Rise, Ruislip. HA4 7LP

Date: 27/07/2021

FRA Supporting Document

As outlined by the Environmental Agency's guideline on flood resilient construction, we will use flood resilient building materials and techniques for the proposed work. An outline of the flood mitigation techniques for water resilience/resistance to be adopted is outlined below:

Sections	Materials	Techniques
Building materials	● Engineering bricks ● Aircrete blocks ● Mortars	Good quality materials to be used to maintain integrity and minimise water penetration
Foundations Floors	● Blocks sealed with impermeable material (DPM 1200 gauge) to prevent water movement from ground to wall construction ● Concrete slab (thickness 150mm) ● DPM 1200 gauge ● Closed cell material insulation ● Finishing and skirting	**Design option:** Suspended Concrete floor (Fig 6.5)
Walls	● Engineering bricks ● Aircrete ● Cavity insulation: rigid closed cell material ● Render: Cement based with good bond ● Stainless steel wall ties	**Cavity External Wall:** Part-filled cavity (Fig 6.9 Option A)
Doors/windows	● Sealed, framed options will be used ● Air vents will be used	
Fittings	● Durable fittings with good sealing of joints and surface will be adopted	
Services	● All electric points, sockets, communication points/ materials etc. will be installed at a practicable safe level ● Closed cell insulation for pipes below flood level to be used ● Water/ gas/ electricity meter will not be based in the proposed extension	

Source; * Report: Improving the Flood Performance of New Buildings, Environmental Agency