

**FLOOD RISK ASSESSMENT**  
**FOR**  
**64, LANGLEY CRESCENT,**  
**HARLINGTON, HAYES UB3 5HN.**

**Proposal:**

- It is proposed to erect single storey side extension of approx. 73sqm.

**Relative floor levels:**

- The floor level of the proposed extension will be set no lower than existing levels.

**FLOOD RESILIENCE TECHNIQUES PROPOSED:**

**Floor:**

- Solid floor concrete construction with an effective 1200 gauge polythene damp proof membrane linked to new damp proof course will be used.
- Insulation used will be rigid board type with low water absorption properties.

**Walls:**

- Existing house walls are cavity walls rendered finish in good condition. Any small cracks or damaged pointing are to be filled & repainted.
- New extension walls are of cavity construction with external skin of blockwork with plaster finish with rigid board insulation batts in the cavity and inner skin of a blockwork.
- Internal wall finishes to be water resistant render with lime based plaster finish.
- Furthermore ceramic tile finishes are proposed to kitchen area with water-resistant grout over the lime based plaster finish.
- Stainless steel wall tiles are to be used in the cavity wall construction.

- If walls are to be painted, water resistant paint to be used to prevent floodwater soaking into external face of the wall. This should be applied to 500mm above maximum expected level of flooding,
- Any measures to be compatible with existing wall materials and allow adequate water vapour transmission to avoid trapping moisture within the wall.

### **Pipe work:**

- Ensure gaps around service and waste pipes penetrating walls are fully sealed.

### **Surface water:**

- Surface water will be dealt with by using sustainable drainage by discharging to soakaways.