



FLOOD MITIGATION MEASURES FOR PROPOSED REAR EXTENSION

SITE ADDRESS

8 The Drive, Bognor Regis, West Sussex, PO21 4DU

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Proposal – Single storey rear extension

Application No – AW/69/18/HH

Flood Risk Assessment (FRA)

The application is for a domestic extension within a Flood Zone; the Environment Agency's Table confirming flood mitigation measures to be adopted is enclosed.

Due to the small nature of the proposed extension it is unlikely to cause any harm or damage to the existing or surrounding properties in case of flooding.

Supporting Information

Finished Ground Floor Level

The finished floor levels of the proposed conservatory will marry through with the general level of the main house, and will not be set any lower than the existing house floor levels.

Flood Mitigation Measures

Flood Proofing/Resilience and Resistance Techniques

The proposed extension will be constructed on a trench-fill foundation, this is a common type of foundation for his type of ground condition, and also a damp proof membrane (d.p.m) will be laid

All new external cavity walls to have facing bricks from foundation up to window eaves which. Facing bricks have medium water penetration and drying ability, as stated in Table 6.1 from Improving the Flood Performance of New Buildings. All cavity ties to be stainless steel type.

Plastered finish to internal, which will make the walls weatherproof. External quality water repellent paint to be used to the external wall. Wall cavities to be clear for at least 225mm below dpc level.

The extension will also incorporate windows and doors which will be built up of glass and PVC-U. PVC-U and glass will not absorb any water hence unlikely to be damaged by flood water. And has quick drying properties.

Table 6.1 Flood resilience characteristics of building materials (based on laboratory testing)			
Material	Resilience characteristics*		
	Water penetration	Drying ability	Retention of pre-flood dimensions, integrity
Bricks			
Engineering bricks (Classes A and B)	Good	Good	Good
Facing bricks (pressed)	Medium	Medium	Good
Facing bricks (handmade)	Poor	Poor	Poor
Blocks			
Concrete (3.5N, 7N)	Poor	Medium	Good
Aircrete	Medium	Poor	Good
Timber board			
OSB2, 11mm thick	Medium	Poor	Poor
OSB3, 18mm thick	Medium	Poor	Poor
Gypsum plasterboard			
Gypsum Plasterboard, 9mm thick	Poor	Not assessed	Poor
Mortars			
Below d.p.c. 1:3(cement:sand)	Good	Good	Good
Above d.p.c. 1:6(cement:sand)	Good	Good	Good
* Resilience characteristics are related to the testing carried out and exclude aspects such as ability to withstand freeze/thaw cycles, cleanability and mould growth			

If internal skirting is to be used then PVC-U skirting will be used as this is a non absorbent material, flooring will be vinyl, tiled or laminated, which also has quick drying properties.

Any electrical sockets within the conservatory will be set at a minimum of 600mm above finished floor levels to avoid flood levels and also electrical sockets should be installed above flood level for ground floors to minimise damage to electrical services and allow speedy re-occupation

There will be no under floor services.