

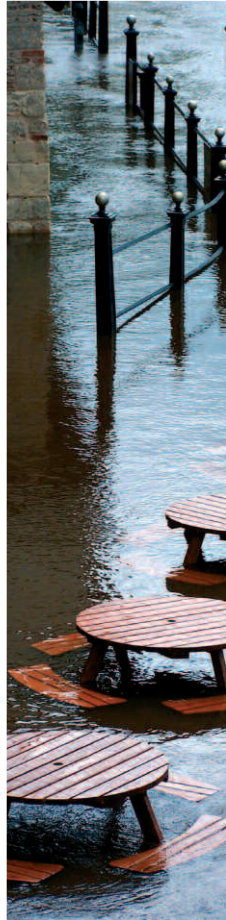
# + Creative engineering

Flood risk assessments  
& sustainable urban  
drainage solutions

## Flood risk assessments & sustainable urban drainage solutions

Waldeck provides both flood risk assessments and sustainable urban drainage solutions either separately or as a package. They are particularly useful at the early feasibility stage, the planning phase and as part of Code for Sustainable Homes applications. We offer:

- flood risk analysis for projects built within flood risk areas highlighting risks to the design team, contractors, clients and end-users
- advice on alternative foundation and drainage options
- documents that satisfy local planning authorities' conditions in respect of mitigating flood risk compliant with PPS25





and the BRE for compliance with the Sur 1 requirements of the Code for Sustainable Homes

- research by our R&D team, which constantly explores other modern methods of construction for flood resilience/control and sustainable infiltration systems
- a review of your existing hydrological and hydrogeological situation together with an environmental impact assessment which can ensure optimum design achieving greenfield run-off flows and the re-charging of ground water while enhancing the environmental aspect
- interpretation and assessment of Environment Agency / Drainage Board flood information; 3D ground and hydraulic modelling to see the effects of river embankment / watercourse breach and assessment of the overland flood flow depth and velocities

- expert help for projects of all sizes, from small private domestic properties to major housing developments

We offer the following with a high level of expertise:

- Civil engineering
- Soft and hard Sustainable Urban Drainage Design (SUDs)
- Pre-acquisition flood risk analysis
- Outline and full planning Flood Risk Assessments (FRA) and PPS25 flood reports
- Code for Sustainable Homes Assessment, SUR1 reports
- Flood and water management
- Floods and Water Bill (ACT)
- Sequential testing
- Private drainage schemes
- Sewers for adoption
- Greenfield run-off