

# Flood Risk Assessment for Domestic Gates in Flood Zone 1

**SITE LOCATION:** Flood Zone 1 (surface water, river and sea)

**FLOOD RISK CLASSIFICATION:** Low risk (less than 1 in 1,000 annual probability of river or sea flooding)

**DEVELOPMENT TYPE:** Domestic Gates of resilient design

## 1. FLOOD RISK OVERVIEW

Flood Zone 1 is classified as having a low risk of flooding, with an annual probability of less than 0.1% from river or sea sources, and the same annual probability for surface water flooding. Given this classification, the site is not at significant risk of flooding under normal or extreme conditions.

## 2. IMPACT OF FLOODING ON DOMESTIC GATES

The proposed domestic gates are designed to be resilient, which means that their construction and materials are specifically chosen to withstand or remain unaffected by the minor risks associated with flooding. The gates will not be significantly damaged in the event of flooding, as they are constructed from materials resistant to water damage and corrosion, such as treated metal or composite materials. Additionally, the design ensures that they can remain functional and maintain their structural integrity during flood events.

The insertion of the gates will not result in an increased amount of tarmac or concrete which would increase the risk of surface water flooding. The existing driveways are already tarmac.

## 3. CONCLUSION

Considering that the site is in Flood Zone 1 and the gates are of a resilient design, there is no substantial risk of damage from flooding. The gates will continue to serve their intended purpose even during minor flood events. Therefore, no further mitigation measures related to flooding are required for the development of the gates.

