

Sandwich Flood Alleviation Scheme



The £21.7 million flood defence scheme involves works on 16 individual reaches of the river and will reduce the risk of tidal flooding to 488 homes and 94 commercial properties in Sandwich.

Client – Jackson Civil Engineering working on behalf of the Environment Agency

Salix were involved in the early design process with Halcrow (CH2M Hill) to look at scour protection of the spillways.

A Tensar Erosion control design software programme was used to ensure the correct product was chosen for the anticipated flow regime.

Products Used

- **Vmax C350**
- **Rock Mattresses**
- **Rock Rolls**
- **Coir Rolls**

At the base of the spillways Salix Rock Mattresses were installed due to the potential of hydraulic jumps.



Rock Mattresses tie in detail at hydraulic jump zone with Vmax C350

Vmax C350 was the product required in order to prevent soil loss from day one of installation. The Vmax C350 is a Turf Reinforcement Mat (TRM) designed to provide a long term reinforced vegetated solution for flows up to 6 m/ sec.

New ditches at the base of the spillway were designed to take overtopping but at the same time provide valuable habitat for water vole using Rock Rolls for scour protection and pre-established *Phragmites australis* coir pallets for instant habitat on the opposite bank.

The Rock Rolls will vegetate over time and blend into the environment.

In early December 2013 the site experienced a tidal breach during the highest tidal surge in 60 years.

