

High Knocke to Dymchurch Redoubt Sea Defences

- The **High Knocke to Dymchurch Redoubt coastal defences** on the southern Kent coast between Folkestone and Dungeness was completed in June 2011.
- Works were split into two frontages: Frontage A - High Knocke to Dymchurch and Frontage B - Grand Redoubt to Dymchurch
- Frontage B was completed spring 2008. Works on Frontage A started February 2009 and were completed ahead of schedule in spring 2011.
- Together, these two schemes protect approx 4.5km of sea frontage.
- Total cost of both frontages approximately £60 million
- Client – Environment Agency
Contractors – (Frontage A) Birse (Frontage B) Team Van Oord
Designer - Jacobs
- These works have been essential to reduce flood risk from the sea for all the residents and businesses of Romney Marsh.
- The works have refurbished and upgraded the deteriorating sea wall that dates back to Roman times, protecting significant areas of land 1.7m below high tide level.
- Locally it improves the protection to 2,471 residential properties, 927 caravans, 3 holiday camps, 7672 ha agricultural land, 113 ha Romney Marsh SSSI, A259 trunk road. Overall it will help to reduce flood risk to over **13,500** homes.
- The defences have been built taking sea level rise and climate change into account for the next 100 years.
- On Frontage A, new upper and lower promenades run the length of the 2.2km sea wall and 1,660 concrete revetment units provide stepped access to the beach. Two viewing platforms have been installed and disabled access has been improved with 2 new access ramps between the upper and lower promenades.
- The level of protection is now at the standard 1:200 (0.5%) risk of breach (i.e. a 1 in a 200 year probability of an event that would cause a breach occurring) and 1:100 (1%) risk of overtopping from wave action which we aim for around the whole of this coastline.
- Throughout works on both frontages the project team have worked closely with the local community through both the parish and district councils to minimise impacts for local residents during the delivery of this scheme.
- Awards: Considerate Constructor Gold award 2011.

Community Award from the Institution of Civil Engineers Kent & East Sussex Engineering Excellence Awards 2011.

The scheme has also been short listed for a British Construction Industry Award.

