

Channel Tunnel Rail Link

London, UK

Project Information

Client
Union Railways

Main Contractor
Skanska UK

Noise & Vibration Consultant
Skanska UK

Dates
1998 - 2006

Construction Value
£150m (Ashford)
£105m (Stratford)

Further information

Maple Cross House
Denham Way
Maple Cross
Rickmansworth
Hertfordshire
WD3 9SW

31 Old Field Road
Bocam Park
Pencoed
Bridgend
CF35 5LJ

skanska.technology@skanska.co.uk
www.skanska.co.uk



Skanska UK has played a major part in the construction of the new Channel Tunnel Rail Link (CTRL) and was Principal Contractor for two of the most technically demanding contracts; Contract 430 - Ashford and Contract 230 - Stratford Box. Contract 430 comprised just over 15km of track, of which around 8.5km was within deep excavations. Contract 230 included the construction of the 1.1km long 50 metre wide and 25 metre deep open top reinforced concrete Stratford Box and placing the spoil from the box and the adjacent tunnels to raise the surrounding land by up to 7.5m.

Skanska's design team was appointed as Noise and Vibration Consultant to support the Project Environmental Manager. The primary function was to prepare the required Section 61 Consent applications, plus any Variations or Dispensations, for submission to the relevant Local Authority. The use of the Section 61 process was a Contract Requirement for the whole of CTRL. Skanska's design team also arranged and managed the Base Line Noise Surveys carried out prior to the start of construction works, advised the site team on the acquisition and operation of monitoring equipment, reviewed the measured data, undertook several investigations into levels of hand arm vibration and drafted lists of properties eligible for noise insulation. Skanska's design team drafted the Noise and Vibration Management Plans, which Skanska was required to produce to demonstrate how noise and vibration were to be managed during the construction works.

On both contracts, Skanska's design team made substantial efforts to establish a good working relationship between the Local Authorities and the Project Teams which served Skanska well. The drafting and submission of the Section 61 consent applications required continual liaison with the site team and the seven different Local Authorities. □