

Reference	NR/L3/CIV/140/121C
Issue	3
Publication date	1 st June 2008
Compliance date	1 st September 2008

MODEL CLAUSES FOR CIVIL ENGINEERING WORKS

SECTION 121 BRIDGE INSTALLATION BY SLIDING OR ROLLING

Contents		Page
121.001	Definitions	2
121.002	Method statement to be submitted with the Tender	2
121.003	Detailed method statement	3
121.004	Temporary supports and runway beams	5
121.005	Slide track or roller path	5
121.006	Jacks and jacking arrangements	5
121.007	Directional control	6
121.008	Control and monitoring of sliding or rolling-in operation	7
121.009	Propulsion system and anchorages	7
121.010	Trial erection of slide track or roller path	7
121.011	Trial bridge movement	8
121.012	Final position of the bridge	9
References	Network Rail standards	10
	Model Clauses	10

Reference	NR/L3/CIV/140/121C
Issue	3
Publication date	1 st June 2008
Compliance date	1 st September 2008

SECTION 121

BRIDGE INSTALLATION BY SLIDING OR ROLLING

Definitions

121.001

The following definitions shall apply:

- (i) “Runway beam” shall mean the principal longitudinal member (supported by Temporary or Permanent Works) which provides continuous support to the slide track or roller path.
- (ii) “Slide track” shall mean the track which provides the surface over which sliding movement takes place.
- (iii) “Roller path” shall mean the path which provides the surface along which rolling movement takes place.
- (iv) “Sledges”, “Trolleys” or “Rollers” shall mean devices which support the structure being installed and transmit the load from the structure to the slide track or roller path respectively, and permit sliding or rolling movement to take place.

Sledges, trolleys or rollers may contain built in jacking facilities to lift and support the structure being installed during sliding or rolling.

Method statement to be submitted with the Tender

121.002

Further to NR/SP/CPR/008, an outline method statement for the bridge installation shall be submitted with the Tender. The outline method statement shall include the following:

- (i) outline details of all elements of the sliding or rolling system, including sledges, trolleys or rollers, slide tracks or roller paths, runway beams, runway beam supports, and method of propulsion, jacking, control, monitoring and back-up systems as required for the bridge installation and all substantial Temporary Works,
- (ii) details of the specialist contractor proposed to carry out the bridge installation, including their relevant experience and successful usage of the proposed slide or roll system as applicable,
- (iii) proposals to ensure that the bridge design parameters listed in Section 120: General Requirements for Bridge Installation Methods and Temporary Works are not exceeded,

Reference	NR/L3/CIV/140/121C
Issue	3
Publication date	1 st June 2008
Compliance date	1 st September 2008

- (iv) proposals for guiding the structure along the slide track or roller path, as applicable,
- (v) proposals for safeguarding against “crabbing” of the structure during the sliding-in or rolling-in operation, as applicable, and overshooting of the specified final position of the bridge,
- (vi) proposals for the method of fixing the slide track or roller path to ensure the tolerances necessary for the Contractor’s chosen bridge installation method are achieved, and to transmit the applied longitudinal and transverse forces,
- (vii) proposals for supporting the weight of the structure during the sliding or rolling-in operation and for subsequent lowering,
- (viii) the names of the organisations proposed to be used to carry out the design and design check,
- (ix) any work proposed to be carried out to the Permanent Works and the proposed method of making good,
- (x) contingency plans in the event of failure of mechanical components of the system including replacement of damaged sections of the slide track or roller path in accordance with Clause 121.005.

Detailed method statement 121.003

Further to Clause 121.002, a detailed method statement for the bridge installation shall be submitted to the Employer’s Representative, for acceptance, not less than six weeks before the programmed start of the relevant work. The detailed method statement shall include, but not be limited to, further details of the information submitted in accordance with Clause 121.002, as necessary, and the following additional information:

- (i) calculations, drawings, design and design check certification for the Temporary Works, and any alterations to the Permanent Works associated with the bridge installation - all in accordance with NR/SP/CIV/003.
- (ii) proposed detailed programme for the bridge installation,