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MODEL CLAUSES FOR CIVIL ENGINEERING WORKS

SECTION 100 BEARINGS

NOTES TO SPECIFIER:

These notes do not form part of the Specification.

These notes should be read in conjunction with 100C, 100GN and PD 6703.

Form of specification

In selecting the form of the bearing specification, the specifier should consider the implications of the choice of design and/or supply arrangements for the bearings. Matters to be considered include:

(i) legal requirements,

(ii) design responsibility for the design arrangement, and for the compatibility of the design of the substructure and superstructure in terms of the underlying assumptions and practicality of the detailing,

(iii) responsibility for checking, including that (ii) has been properly considered,

(iv) time scales: for (ii) and (iii) - including the supply of the bearings and the implications for the design and fabrication of the superstructure where the bearing design requires its modification,

(v) contractual implications, responsibilities, and liabilities arising from the above, particularly where time scales could be critical,

(vi) whole life cost, including the durability of the bearings and provisions for their replacement.

Proprietary bearings

For commercial reasons and to meet the requirements of European Community legislation, proprietary bearings should not normally be specified. However, in exceptional circumstances, proprietary bearings may be specified on the grounds of technical compatibility, but the justification for this shall be clearly recorded and retained.

Choice of bearings

Each structure will present its own problems regarding the types of bearing and bearing grout that could be used, and the general method of setting bearings.

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Steel bearings *Where the use of steel bearings is envisaged, Sections 90 and 170 to 176 should be included in the Contract Specification.*

NOTES ON INDIVIDUAL SPECIFICATION CLAUSES

Design of bearings ***100.002*** *The specifier should complete* ***Appendix 100/1****.*

A Bearing Schedule should be included either in the Contract Specification as ***Appendix 100/11****, or on the Contract Drawings. This Section of the Model Clauses was written on the assumption that the relevant information listed in the model bearing schedule will be provided in the Contract Bearing Schedule.*

Bearings, other than elastomeric ***100.004*** *Where test data on the specific bearing type are inadequate or unavailable, higher values of γ_m than those identified in PD 6703 may be specified and these values should be identified in* ***Appendix 100/2****. Under such circumstances, the initial performance of the bearings should be closely monitored, and special mention of this made in the bridge inspection file.*

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