



Notification Number: 1994/24/UK

## **DEPARTMENTAL STANDARD BD XX/93 'DESIGN FOR DURABILITY' (DOT REF: EPP 022/93/EC)**

Date received : 21/01/1994

End of Standstill : 26/04/1994

Issue of comments by : Commission

### Message

MINISTERE DE L'INDUSTRIE ET DE LA RECHERCHE  
ATT. M. MORTUREUX

INSTITUT BELGE DE NORMALISATION,  
ATT. M. CROON

INSPECTION DU TRAVAIL ET DES MINES  
VIA MINISTERE DES AFFAIRES ETRANGERES  
ATT. M. A. SCHUSTER

MINISTERE DE L'INDUSTRIE  
ATT. M. CAVANNA

DEPT. OF TRADE AND INDUSTRY, QUALITY AND EDUCATION DIVISION,  
ATT. MR. E. ALLEN

GOVERNMENT SERVICE OF INDUSTRY AND COMMERCE, NSAI  
ATT. MR. J. NULTY

MINISTERIE VAN ECONOMISCHE ZAKEN, (DG BEB),  
ATT. MR. B. SIEBRING

INDUSTRI- OG HANDELSSTYRELSEN  
ATT. MR. KELD DYBKJAER

MINISTRY OF INDUSTRY, ENERGY & TECHNOLOGY  
ATT. MR. Z.P. MAVROUKAS

HELLINIKOS ORG. TYPOPOSEOS  
ATT. MR. MELAGRAKIS

MIN WIRTSCHAFT  
ATT. DR. WINKEL

MIN PARA RELACIONES CON LA COMUNIDA



ATT MR. D. ALFREDO RAMBLA JOVANI

MIN INDUSTRIA

ATT MR. ADALBERTO PEREA MARTIN, ESPAGNE

DIRECCIO GERAL QUALIDAD

ATT MR. CANDIDO DOS SANTOS, PORTUGAL

DGS INTERNATIONAL BELGIUM

REP PERMANENTE ROYAUME UNI

REP PERMANENTE IRLANDE

REP PERMANENTE GRECE

EUROPEAN FREE TRADE ASSOCIATION

ATT. MS. MEADEN

TELEX 001

COMMUNICATION FROM THE COMMISSION - SG (94) D/50114

DIRECTIVES 83/189/EEC AND 88/182/EEC

NOTIFIKATION - NOTIFIZIERUNG - NOTIFICATION - NOTIFICACION

NOTIFICATION - NOTIFICA - KENNISGEVING - NOTIFICACAO 94/0024/UK

FRISTERNE INDLEDES IKKE -KEIN FRISTBEGINN - DOES NOT OPEN THE  
DELAYS - NO ABRE EL PLAZO - N'OUVRE PAS DE DELAIS - NON FA  
DECORRERE LA MORA - GEEN TERMIJNBEGIN - NAO INICIA O PRAZO

- 3B1 : 9400114.EN

**1. Structured Information Line**

TLX 001 IND- 94 0024 UK- EN ----- 940120 --- ---

**2. Member State**

UNITED KINGDOM

**3. Department Responsible**

DEPARTMENT OF TRADE AND INDUSTRY: STANDARDS POLICY UNIT

**3. Originating Department**

DEPARTMENT OF TRANSPORT

**4. Notification Number**

94/0024/UK

**5. Title**

DEPARTMENTAL STANDARD BD XX/93

'DESIGN FOR DURABILITY' (DOT REF: EPP 022/93/EC)



## **6. Products Concerned**

GROUTED DUCT POST-TENSIONING SYSTEMS (EFFECTIVELY PRECLUDED) PROPRIETARY MANUFACTURED STRUCTURE

## **7. Notification Under Another Act**

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## **8. Main Content**

A. THIS DEPARTMENTAL STANDARD PROMOTES THE CONCEPT OF DESIGN FOR DURABILITY BY EMPHASISING THE LOWEST WHOLE-LIFE COST DESIGN PHILOSOPHY. THIS STANDARD APPLIES TO THE DESIGN OF ALL THE DEPARTMENT'S BRIDGES INCLUDING THEIR RETAINING WALLS AND ABUTMENTS. IT IS NOT APPLICABLE TO FOOTBRIDGES, PIPE BRIDGES AND SIGN AND SIGNAL GANTRIES. NOR IS IT APPLICABLE TO THE ALTERATIONS AND STRENGTHENING OF EXISTING STRUCTURES.

B. THE UNITED KINGDOM WOULD LIKE TO BE INFORMED BY OTHER MEMBER STATES OF THEIR OWN STANDARDS OR REGULATIONS OFFERING AN EQUIVALENT LEVEL OF SAFETY AND SECURITY.

## **9. Brief Statement of Grounds**

GROUTED-DUCT POST-TENSIONED PRESTRESSING IS EFFECTIVELY BANNED IN THE DESIGN OF ANY TYPE OF HIGHWAY STRUCTURE, DUE TO THERE BEING NO SATISFACTORY MEANS OF MONITORING THE CONDITION OF TENDONS AND CORROSION OF TENDONS HAS RESULTED IN SUDDEN COLLAPSES OF BRIDGES. PROPRIETARY MANUFACTURED STRUCTURES PROVIDED BY CONTRACTORS ARE TO INCLUDE MAINTENANCE POLICIES FOR THE STRUCTURES.

## **10. Reference Documents - Basic Texts**

BA XX/93 DEPARTMENTAL ADVICE NOTE, DOT, 'DESIGN FOR DURABILITY'

BD 28/87 DEPARTMENTAL STANDARD, DOT, 'EARLY THERMAL CRACKING OF CONCRETE'

BS 5400 PART 4: 1990 'DESIGN OF CONCRETE BRIDGES' NOT ENCLOSED (SENT WITH NOTIFICATION: 92/0284/UK) MCHW 1 SPECIFICATION FOR HIGHWAY WORKS, DOT NOT ENCLOSED (SENT WITH NOTIFICATION: 90/0303/UK)

## **11. Invocation of the Emergency Procedure**

NO

## **12. Grounds for the Emergency**

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D. WILLIAMSON  
COMEUR  
NNNN