

**NATIONAL ANNEX  
TO STANDARD  
SFS-EN 1993-1-11:2006 +AC  
EUROCODE 3: DESIGN OF STEEL STRUCTURES  
Part 1-11: Design of structures with tension components**

**Preface**

This annex is used together with Standard SFS-EN 1993-1-11:2006 + AC.

This national annex sets out:

a) The national parameters for the following paragraphs in Standard SFS-EN 1993-1-11 where national selection is permitted:

- 2.3.6(1)
- 2.3.6(2)
- 2.4.1(1)
- 3.1(1)
- 4.4(2)
- 4.5(4)
- 5.2(3)
- 6.2(2)
- 6.3.2(1)
- 6.3.4(1)
- 6.4.1(1)P
- 7.2(2)
- A.4.5.1(1)
- A.4.5.2(1)
- B(6).

b) Guidelines for the use of informative Annexes A and B.

### **2.3.6 Replacement and loss of tension components**

#### 2.3.6(1)

Additional guidance is not given. See also clause 2.1.3.3(3)B of SFS-EN 1993-1-1.

#### 2.3.6(2)

Sudden loss of any one tension component should always be taken into account as a consequence of collision load and design should be made as accidental design situation. Other situations should be determined case by case in each project.

### **2.4.1 Transient design situation during the construction phase**

#### 2.4.1(1)

Recommended values should be used.

### **3.1 Strength of steels and wires**

#### 3.1(1)

Recommended values should be used.

### **4.4 Corrosion protection of the exterior of group B tension components**

#### 4.4(2)

Steel grade of stainless steel should be taken from the table A.1 of EN 1993-1-4.

### **4.4 Corrosion protection of group C tension components**

#### 4.5(4)

Corrosion protection fillers accepted in cables in building structures are grease, wax, soft resin and cement grout. The use of cement grout is not accepted in fatigue loaded structures and in structures, which are designed in a such a way, that individual wires are replaceable during the design life of the structure. Filler should work acceptably in the service temperature.

### **5.2 Transient construction phase**

#### 5.2(3)

Recommended value should be used.

### **6.2 Pretensioned rods and group B and C components**

#### 6.2(2)

Recommended values should be used.

### **6.3.2 Slipping of cables over saddles**

#### 6.3.2(1)

Recommended value should be used.

### **6.3.4 Design of saddles**

6.3.4(1)

Recommended value should be used.

### **6.4.1 Slipping of clamps**

6.4.1(1)P

Recommended value should be used.

## **7.2 Stress limits**

7.2(2)

Recommended values should be used.

## **Annex A**

### **Product requirements for tension components**

Annex A may be used.

#### **A.4.5.1 Water-proofing**

A.4.5.1(1)

Guidance for testing should be presented for each project.

#### **A.4.5.2 Corrosion protection barriers**

A.4.5.2

Guidance for testing should be presented for each project.

## **Annex B**

### **Transport, storage, handling**

Annex B may be used.

(6)

Guidance for monitoring and inspections should be presented for each project.