

Contents

Page

European foreword.....	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	7
4 General	8
5 Manufacturer documentation	8
5.1 Quality documentation	8
5.2 Quality plan	8
5.3 Safety of the erection works	8
5.4 Execution documentation	8
5.5 Identification and traceability	9
6 Materials	9
7 Requirements for welding monitoring class 2	10
8 Steel components	10
8.1 General	10
8.2 Special requirements	11
8.2.1 Welding	11
8.2.2 Mechanical connections	13
8.2.3 Galvanized components	13
9 Aluminium components	13
9.1 General	13
9.2 Special requirements	14
9.2.1 Welding	14
9.2.2 Mechanical connections	15
10 Timber components	16
10.1 General	16
10.2 Glued joints	16
Bibliography	17

European foreword

This document (EN 17293:2020) has been prepared by Technical Committee CEN/TC 53 “Temporary works equipment”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2020, and conflicting national standards shall be withdrawn at the latest by September 2020.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

Steel, aluminium and timber components for temporary works equipment are usually designed according to Eurocodes.

NOTE Temporary works equipment are products covered by CEN/TC 53, for example, scaffolds, formworks, falseworks.

Components designed specifically for temporary works equipment are not intended to be incorporated in a permanent manner in construction works (buildings or civil engineering works). They are manufactured in accordance with standards within the scope of CEN/TC 53 and not covered by the Construction Products Regulation EU 305/2011. Therefore, EN 1090-1 is not applicable for these components and they are not to be marked CE.

EN 1090-2, EN 1090-3, EN 1090-4, EN 1090-5 give requirements for execution of steel and aluminium components. This document gives special requirements for manufacturing components for temporary works equipment in addition or contrary to the requirements of EN 1090-2, EN 1090-3, EN 1090-4, EN 1090-5, to ensure adequate levels of mechanical resistance and stability, serviceability and durability.

EN 1995-1-1 gives requirements for execution of timber components. This document gives special requirements for manufacturing glued timber joints in components of temporary works equipment.

This document presupposes that manufacturing is carried out with the necessary skill and adequate equipment and resources to perform that manufacturing is in accordance with the requirements of this document.

1 Scope

This document specifies requirements for manufacturing components for temporary works equipment:

- a) in a factory; or
- b) on site where manufacturing in a factory is not practicable.

This document specifies requirements for manufacturing components for temporary works equipment in addition or contrary to the requirements of EN 1090-2, EN 1090-3, EN 1090-4, EN 1090-5 and EN 1995-1-1.

Furthermore, this document specifies requirements for manufacturing timber components, designed according to Eurocodes, to be used in temporary works equipment.

This document does not specify requirements for erection and transportation of temporary works equipment.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 74-2, *Couplers, spigot pins and baseplates for use in falsework and scaffolds — Part 2: Special couplers - Requirements and test procedures*

EN 1004, *Mobile access and working towers made of prefabricated elements — Materials, dimensions, design loads, safety and performance requirements*

EN 1065, *Adjustable telescopic steel props — Product specifications, design and assessment by calculation and tests*

EN 1090-2:2018, *Execution of steel structures and aluminium structures — Part 2: Technical requirements for steel structures*

EN 1090-3:2019, *Execution of steel structures and aluminium structures — Part 3: Technical requirements for aluminium structures*

EN 1090-4:2018, *Execution of steel structures and aluminium structures — Part 4: Technical requirements for cold-formed structural steel elements and cold-formed structures for roof, ceiling, floor and wall applications*

EN 1090-5:2017, *Execution of steel structures and aluminium structures — Part 5: Technical requirements for cold-formed structural aluminium elements and cold-formed structures for roof, ceiling, floor and wall applications*

EN 1993-1-3, *Eurocode 3: Design of steel structures — Part 1-3: General rules — Supplementary rules for cold-formed members and sheeting*

EN 1993-1-8:2005, *Eurocode 3: Design of steel structures — Part 1-8: Design of joints*

EN 1995-1-1:2004, *Eurocode 5: Design of timber structures — Part 1-1: General — Common rules and rules for buildings*