ISO 17607-3:2023-12 (E)

Steel structures - Execution of structural steelwork - Part 3: Fabrication

Contents

Page

Foreword ..... **iv**

Introduction ..... **v**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **1**

4 Execution specification **1**

5 Preparation and assembly **2**
5.1 General 2
5.2 Identification and traceability 2
5.2.1 Identification 2
5.2.2 Traceability 3
5.3 Handling and storage 3
5.4 Cutting 3
5.4.1 General 3
5.4.2 Shearing and nibbling 4
5.4.3 Thermal cutting 4
5.4.4 Hardness of free edge surfaces 5
5.5 Shaping 5
5.5.1 General 5
5.5.2 Hot forming (forging) 5
5.5.3 Flame (heat) straightening, cambering, and curving 6
5.5.4 Cold forming 6
5.6 Holing for structural bolting 8
5.6.1 Execution of holing 8
5.6.2 Tolerances on hole diameter for bolts and pins (including width and surface roughness) 10
5.7 Temporary attachments 11
5.8 Assembly check 11

6 Geometrical tolerances **11**
6.1 Tolerance types 11
6.2 Alternative criteria 12

7 Inspection, testing, and correction **12**
7.1 General 12
7.2 Shop corrections 12
7.3 Acceptance criteria 13
7.4 Action on nonconformity 13

8 Architecturally exposed structural steel **13**

9 Documents required to claim conformity to these requirements **13**
9.1 General 13
9.2 Declaration of conformity 13

Annex A (normative) **Additional information, list of options and requirements related to the execution levels** **14**

Annex B (normative) **Procedure for checking capability of automated thermal cutting process** **17**

Annex C (informative) **Geometric tolerances — Buildings** **24**
Annex D (informative) **Geometric tolerances — Bridges** **109**
Annex E (informative) **Geometric tolerances — Crane runways** **112**
Bibliography **118**