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STRUCTURAL STEELWORK AND ALUMINIUM

TS 3.10.12

GENERIC TECHNICAL SPECIFICATION
FOR CIVIL, STRUCTURAL AND BUILDING ENGINEERING

SECTION NO : 12

TITLE : STRUCTURAL STEELWORK AND ALUMINIUM

GENERIC TECHNICAL SPECIFICATION FOR CIVIL, STRUCTURAL AND BUILDING ENGINEERING

This document shall be read in conjunction with Generic Technical Specification Civil, Structural and Building Engineering – Introduction, ref: TS 3.10.00.

The clause numbering system relates to the numbering system in CESWI6 Specification.

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STRUCTURAL STEELWORK AND ALUMINIUM

12.1 Structural Steelwork and Aluminium - General

- 12.1.1 Unless modified by this Specification or the Particular Specification, all structural works including inter alia erecting structures and protection of surfaces shall comply with the provisions of the following relevant Standard:

Material	Standard
Steelwork	BS EN 1090: Part 2
Aluminium	BS EN 1090: Part 3

- 12.1.2 Notwithstanding the information required to be provided by the *Contractor* in BS EN 1090: Parts 2 and 3 appropriately, the *Contractor* shall also provide the information defined in the Particular Specification as well as the Quality Plan for execution of the works and fabrication drawings, data and method statements. This is a **Hold Point**.

- 12.1.3 All materials shall be marked confirming that they are conforming products.

12.2 Machining

- 12.2.1 The following elements shall be machined after fabrication:

- (i) The ends of columns at intermediate splices and where they bear on bases or caps
- (ii) Butt ends of compression members, except where bolts carry loads
- (iii) Fitted stiffeners
- (iv) Slab bases and caps over the steel bearing surfaces excluding underside of base plates bearing on concrete

- 12.2.2 All machining operations shall be performed after welding.

- 12.2.3 All machined surfaces shall have a finish of 6.5 micrometres CLA.

12.3 Forming of Aluminium Elements

- 12.3.1 For materials where forming operations may significantly affect their properties, the *Contractor* shall determine types of tests and undertake such tests in order to demonstrate to the *Contract Administrator* that no detrimental effects shall occur during the proceeding manufacture of the elements. This is a **Hold Point**.