

GENERAL SPECIFICATION

ELECTRICAL

GS EP ELE 311

Cable trays/ladders

05	10/2012	General review
04	10/2006	Stainless steel cable trays sheet thickness modification
03	10/2005	Addition of "EP" root to GS identification
02	10/2004	Complete review
00	03/2001	First issue
Rev.	Date	Purpose of the revision

Owning entity: DEV/TEC	Managing entity: DEV/TEC/ELE
------------------------	------------------------------

General Specification		GS EP ELE 311
Cable trays/ladders		
Rev.: 05	Effective date: 10/2012	Page: 2 of 8

Contents

1. Scope	3
2. Reference documents.....	3
3. Environmental conditions	4
4. Technical requirements	4
4.1 General.....	4
4.2 Offshore and coastal areas	5
4.3 Onshore installation	5
4.4 Hot dip galvanised cable trays/ladders.....	5
4.5 Aluminium 5754 - Cable trays/ladders.....	5
4.6 Glass Reinforced Polyester (GRP) cable trays/ladders	6
4.7 Stainless steel 316 L cable trays/ladders	6
4.8 Painting.....	7
5. Testing and inspection	7
6. Certification	7
7. Documentation	8
8. Other references	8

General Specification		GS EP ELE 311
Cable trays/ladders		
Rev.: 05	Effective date: 10/2012	Page: 3 of 8

1. Scope

This specification covers the minimum requirements for the design, manufacture, inspection, testing and delivery of cable trays/ladders for offshore and onshore installations.

2. Reference documents

The reference documents listed below form an integral part of this General Specification.

Design and construction of the equipment shall be in accordance with the current edition of the following documents listed in order of precedence:

- Company Particular Specification and data sheet (if any)
- Company General Specifications
- Applicable International Electrotechnical Commission (IEC) and ISO publications
- Applicable CENELEC standards
- NEMA.

Applicable recognized standards and codes (UTE, BS, VDE, etc.) when IEC publications have not yet been issued.

External Documents

Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the effective date of this document.

Reference	Title
ASTM A 123	Standard specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
IEC 60079-0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60695-2-11	Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products
IEC 61537	Cable tray systems and cable ladder systems for cable management
ISO 4582	Determination of changes in colour and variations in properties after exposure to daylight under glass, natural weathering or laboratory light sources
ISO 4589	Determination of burning behaviour by oxygen index
ISO 4892-2	Methods of exposure to laboratory light sources - Part 2: Xenon-arc lamps
ISO 527-5	Determination of tensile properties - Part 5: Test conditions for unidirectional fibre-reinforced plastic composites