

ISO 14713-1:2009-12 (E)

Zinc coatings - Guidelines and recommendations for the protection against corrosion of iron and steel in structures - Part 1: General principles of design and corrosion resistance

Contents

	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Materials	3
4.1 Iron and steel substrates	3
4.2 Zinc coatings	3
5 Selection of zinc coating	3
6 Design requirements	4
6.1 General principles of design to avoid corrosion	4
6.2 Design for application of different zinc coating processes	5
6.3 Tubes and hollow sections	5
6.4 Connections	5
6.5 Duplex systems	6
6.6 Maintenance	7
7 Corrosion in different environments	7
7.1 Atmospheric exposure	7
7.2 Exposure to soils	10
7.3 Exposure to water	12
7.4 Abrasion	12
7.5 Exposure to chemicals	12
7.6 Elevated temperatures	13
7.7 Contact with concrete	13
7.8 Contact with wood	14
7.9 Bimetallic contact	14
8 Accelerated test methods applied to zinc coatings	16
Bibliography	17