ISO 24316:2022-07 (E)

Ships and marine technology - Design and test requirements for steel doors using electrical trace heating

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Design 2
4.1 Opening direction 2
4.2 Structure 2
4.2.1 Types of heated steel doors 2
4.2.2 Sealing rubber stripe 4
4.3 Performance 5
4.3.1 Weather-tightness 5
4.3.2 Anti-icing 5

5 Materials 5
5.1 Steel door 5
5.2 Trace heater cable 6

6 Quality of manufacture 6
6.1 Appearance 6
6.2 Anti-rust and surface treatment 6
6.3 Installation of trace heater cable 6

7 Test 7
7.1 Weather-tight test 7
7.1.1 Indentation test 7
7.1.2 Flushing test 7
7.2 Anti-icing test 7
7.2.1 Test purpose 7
7.2.2 Test device 7
7.2.3 Test condition 7
7.2.4 Test procedure 8
7.2.5 Pass/fail criteria 9

8 Designation 9

Annex A (informative) Nominal dimension and installation position of heated steel door 10

Annex B (informative) Type selection for trace heater cable and layout of trace heating device 11

Bibliography 13