ISO 4853:2023-05 (E)

Ships and marine technology - A-frame launch and recovery system

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Operation and functional requirements 2
4.1 Operating position 2
4.2 Constant tension setting 2
4.3 Load measuring device 3
4.4 Emergency release 3
4.5 Wire rope design 3
4.6 Cylinder protection 3
4.7 Loose gear 3

5 Design 4
5.1 General 4
5.2 Conditions without wind 4
5.3 Conditions with wind 5
5.4 Allowable stress for A-frame structure member 5
5.5 Fatigue 6
5.6 Fracture toughness requirements for critical and main load bearing members 6
5.6.1 General requirement 6
5.6.2 Steels up to and including 41 kg/mm2 yield strength 6
5.6.3 Extra high strength steels above 41 kg/mm2 yield strength 6
5.6.4 Alternative requirements 6

6 Acceptance tests and inspection 7
6.1 General 7
6.2 Heavy hoisting test and inspection 7
6.3 Factory acceptance test and inspection 7

7 Installation testing and inspection 8
7.1 General 8
7.2 Test loads 8
7.3 Examination after testing 8

Annex A (informative) Hoisting factor 9

Bibliography 10