

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 Terms and definitions	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