

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/mm ² yield strength	6
5.6.3	Extra high strength steels above 41 kg/mm ² 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