

DIN EN 14504:2019-09 (E)

Inland navigation vessels - Floating landing stages and floating bridges on inland waters - Requirements, tests

Contents		Page
European foreword		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	6
4	General requirements	7
4.1	Components	7
4.2	Strength	7
4.3	Buoyancy and stability	7
4.3.1	General	7
4.3.2	Intact stability	8
4.3.3	Damaged stability	8
4.4	Anchorage for floating establishments	8
4.5	Structural requirements	9
4.5.1	General	9
4.5.2	Freeboard	9
4.5.3	Floating bodies	9
4.5.4	Materials for filled buoyancy bodies	9
5	Equipment	9
5.1	Railings, barrier	9
5.2	Life-saving equipment	10
5.3	Device for mooring vessels	10
5.4	Lighting	10
5.5	Electrical equipment	10
5.6	Storage spaces	10
6	Walkways	10
6.1	General	10
6.2	Connecting bridge	11
7	Testing	11
7.1	General	11
7.2	Strength	11
7.3	Stability	11
7.3.1	Intact stability	11
7.3.2	Damaged stability	11
8	Marking	11
8.1	Draught marks	11
8.2	Storage areas	11
8.3	Climbing devices	12
8.4	Manufacturer's mark	12
9	Instructions for use	12
Annex A (normative) Design situations for floating establishment on inland waters		13

A.1	General	13
A.2	Design situations for floating landing stages	13
A.3	Design situations for floating bridges	14
A.4	Actions on floating establishments	15
A.5	Permanent actions	16
A.6	Live load and cargo load	16
A.7	Hydrodynamic actions	17
A.8	Vessel berthing impact	20
A.8.1	General	20
A.8.2	Vessel berthing impact according to Figure A.6	20
A.8.3	Vessel berthing impact according to Figure A.7	24
A.8.4	Vessel berthing impact according to Figure A.8	25
A.8.5	Vessel berthing impact according to Figure A.9	25
A.9	Vessel mooring line force of the moored vessel	27
A.10	Vessel friction	27
A.11	Wind load	28
A.12	Special loads	28
Bibliography		29