

# DIN EN 14504:2024-12 (E)

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

---

<b>Contents</b>		<b>Page</b>
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 .....	8
4.3.1	General .....	8
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 .....	10
5.1	Railings, barrier .....	10
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 .....	11
6.1	General .....	11
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 .....	12
8.1	Draught marks .....	12
8.2	Storage areas .....	12
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 .....	17
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 .....	26
A.10	Vessel friction .....	27
A.11	Wind load .....	27
A.12	Special loads .....	28
Annex B (normative) Additional requirements for floating landing stages for cargo shipping .....		29
B.1	General .....	29
B.2	Ramps .....	29
B.3	Anchorage, bollards, and other mooring equipment .....	31
Bibliography .....		32