

# DIN EN 1570-2:2017-03 (E)

Safety requirements for lifting tables - Part 2: Lifting tables serving more than 2 fixed landings of a building, for lifting goods with a vertical travel speed not exceeding 0,15 m/s

---

<b>Contents</b>		<b>Page</b>
European foreword .....		4
Introduction .....		5
1 Scope .....		6
2 Normative references .....		7
3 Terms and definitions .....		8
4 List of hazards .....		10
5 Safety requirements and/or protective measures .....		10
5.1 General .....		10
5.2 Calculations .....		10
5.2.1 Stresses .....		10
Table 1 -- Load factors for lifting tables .....		11
5.2.2 Platform deflection .....		11
Figure 1 -- Deflection of platform .....		12
5.2.3 Strength of the load-bearing structure .....		12
5.2.4 Stability .....		12
5.3 General requirements .....		13
5.3.1 Safety distances .....		13
5.3.2 High temperatures .....		13
5.3.3 Speed .....		13
5.4 Protection for the travel zone and for the platform .....		14
5.4.1 General requirements .....		14
5.4.2 Protection of the travel zone .....		14
5.4.3 Protection for the area underneath the platform .....		14
5.4.4 Protection for the platform .....		15
5.4.5 Guard-rails .....		15
Figure 2a -- Horizontal guard-rail .....		16
Figure 2b -- Clear space between two guard-rail segments .....		16
5.4.6 Gates .....		17
Figure 3 -- Performance level depending on the fall risk .....		18
5.4.7 Flexible guards .....		20
5.4.8 Screens .....		20
5.5 Design of the platform .....		20
5.6 Levels and clearances of fixed landings .....		20
5.7 Driving system .....		21
5.7.1 Mechanical chains driving system .....		21
5.7.2 Hydraulic system .....		21
Table 2 -- Hydraulic pipe rupture protection device .....		22

5.8	Controls.....	25
5.9	Electrical system.....	26
5.9.1	General requirements .....	26
5.9.2	Protection rating .....	26
5.10	Safety devices .....	26
5.10.1	General requirements.....	26
5.10.2	Trip devices .....	26
<b>Figure 5 — Configuration of a trip device .....</b>		<b>27</b>
5.10.3	Safety devices for maintenance.....	27
6	Verification of the safety requirements and/or measures.....	27
6.1	General requirements.....	27
<b>Table 3 — Means of verification of the safety requirements and measures .....</b>		<b>28</b>
6.2	Design check.....	29
6.3	Manufacturing check.....	29
6.4	Visual inspection.....	29
6.5	Electrical tests.....	29
6.6	Individual final verification before putting into service (fitness for purpose).....	29
7	Marking .....	29
8	Instructions for the user .....	30
8.1	General requirements.....	30
8.2	Instructions for use.....	31
8.3	Instructions for installation.....	32
8.4	Instructions for maintenance and inspection .....	32
Annex A (normative) Test procedures.....		34
Annex B (informative) Safety signs .....		36
Annex C (informative) Table with the list of hazards .....		38
Table C.1 — List of hazards.....		38
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC.....		41
Bibliography .....		42