

# DIN EN 81-71:2022-08 (E)

## Safety rules for the construction and installation of lifts - Particular applications to passenger lifts and goods passenger lifts - Part 71: Vandal resistant lifts

Contents	Page
European foreword .....	4
Introduction .....	5
1 Scope .....	6
2 Normative references .....	6
3 Terms and definitions .....	6
4 List of significant hazards .....	7
5 Safety requirements and/or protective measures .....	8
5.1 General .....	8
5.2 Lift well .....	8
5.2.1 Well enclosure .....	8
5.2.2 Access and emergency doors - Access trap doors - Inspection doors .....	8
5.2.3 Ventilation .....	9
5.3 Machinery spaces, pulley rooms and machinery cabinets .....	9
5.4 Landing and car doors .....	10
5.4.2 Landing door security system - Category 2 lifts .....	11
5.4.3 Door coupling mechanism .....	11
5.4.4 Door reversal mechanism .....	12
5.4.5 Locking of car doors .....	12
5.4.6 Manipulation of door operator and locks .....	12
5.5 Car .....	12
5.5.1 Car bodywork, Interior and fixings .....	12
5.5.2 Car emergency doors and access trap doors .....	13
5.5.3 Car ventilation .....	13
5.5.4 Car lighting .....	13
5.6 Car and landing controls and control stations .....	13
5.6.1 Car and landing controls .....	13
5.6.2 Car and Landing Control Stations .....	13
5.6.3 Position indicators .....	14
5.7 Alarm sounder .....	14
5.8 Steel work .....	14
5.9 Signs and markings .....	14
6 Verification of safety requirements and/or protective measures .....	15
7 Information for use .....	17
Annex A (informative) Guidance to the selection of lift category .....	18
A.1 General .....	18
A.2 Examples of different user types .....	18
A.3 Other considerations .....	19
A.4 Lift performance .....	19
A.5 Corrosion protection .....	20
A.6 Durability of finishes .....	20
A.7 Protection of power supplies .....	20

<b>Annex B (normative) Impact test .....</b>	<b>21</b>
B.1 <b>Equipment .....</b>	<b>21</b>
B.2 <b>Samples .....</b>	<b>21</b>
B.3 <b>Method .....</b>	<b>21</b>
B.4 <b>Result .....</b>	<b>21</b>
<b>Annex C (normative) Information sign for landing door security system .....</b>	<b>22</b>
<b>Annex D (informative) Additional advice for dealing with vandalism .....</b>	<b>23</b>
<b>Annex E (normative) Typical items used in vandalism .....</b>	<b>24</b>
<b>Annex F (normative) Fire tests .....</b>	<b>26</b>
F.1 <b>Equipment .....</b>	<b>26</b>
F.2 <b>Samples .....</b>	<b>26</b>
F.3 <b>Method .....</b>	<b>26</b>
F.4 <b>Results .....</b>	<b>26</b>
<b>Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2014/33/EU aimed to be covered .....</b>	<b>28</b>
<b>Bibliography .....</b>	<b>30</b>