

ISO/IEC 22237-6:2024-02 (E)

Information technology - Data centre facilities and infrastructures - Part 6: Security systems

Contents	Page
Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms, definitions and abbreviated terms	2
3.1 Terms and definitions	2
3.2 Abbreviated terms	3
4 Conformance	3
5 Physical security	3
5.1 General	3
5.2 Risk analysis and management	4
5.3 Designation of data centre spaces: Protection Classes	5
6 Protection against unauthorized access	5
6.1 General	5
6.1.1 Data centre configuration	5
6.1.2 Protection Classes	5
6.1.3 Protection Classes of specific infrastructures	8
6.1.4 Levels for access control	8
6.2 Access to the data centre premises	8
6.2.1 Premises with external physical barriers	8
6.2.2 Premises without external physical barriers	9
6.2.3 Roofs	10
6.2.4 Access routes	10
6.2.5 Parking	11
6.2.6 Employees and visitors	11
6.2.7 Pathways	12
6.2.8 Cabinets, racks and frames	12
6.3 Implementation	12
6.3.1 Protection Class 1	12
6.3.2 Protection Class 2	13
6.3.3 Protection Class 3	14
6.3.4 Protection Class 4	14
7 Protection against intrusion to data centre spaces	15
7.1 General	15
7.2 Level for the detection of intrusion	15
7.3 Implementation	16
7.3.1 Protection Class 1	16
7.3.2 Protection Class 2	16
7.3.3 Protection Class 3	17
7.3.4 Protection Class 4	18
8 Protection against internal fire events (fire events signiting within data centre spaces)	18
8.1 General	18

8.1.1	Protection Classes	18
8.1.2	Fire compartments and barriers	19
8.1.3	Fire detection and fire alarm systems	20
8.1.4	Fixed firefighting systems	20
8.1.5	Portable firefighting equipment	23
8.2	Implementation	23
8.2.1	Protection Class 1	23
8.2.2	Protection Class 2	23
8.2.3	Protection Class 3	23
8.2.4	Protection Class 4	23
9	Protection against internal environmental events (other than fire within data centre spaces)	23
9.1	General	23
9.2	Implementation	24
9.2.1	Protection Class 1	24
9.2.2	Protection Class 2	24
9.2.3	Protection Class 3	24
9.2.4	Protection Class 4	25
10	Protection against external environmental events (events outside the data centre spaces)	25
10.1	General	25
10.2	Implementation	26
10.2.1	Protection Class 1	26
10.2.2	Protection Class 2	26
10.2.3	Protection Class 3	27
11	Systems to prevent unauthorized access and intrusion	27
11.1	General	27
11.2	Technology	28
11.2.1	Security lighting	28
11.2.2	Video surveillance systems	28
11.2.3	Intruder and holdup alarm systems	29
11.2.4	Access control systems	29
11.2.5	Event and alarm monitoring	30
Annex A (informative) Pressure relief: additional information		31
Bibliography		33