

DIN ISO 11799:2026-10 (E)

Information and documentation - Document storage requirements for archive and library materials (ISO 11799:2024)

Contents

Page

Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Sustainability — Collections storage and preservation	2
4.1 General	2
4.2 Specifying storage spaces/conditions	3
5 Design planning	3
5.1 Identify design participants	3
5.2 Establish design priorities	4
5.3 Establish design specifications	4
5.4 Risk assessment	5
5.4.1 General	5
5.4.2 Hazards to collections	5
5.4.3 Site risk assessment	6
5.5 Location of repository within structure	7
5.6 Subgrade storage considerations	7
6 Building materials and assembly	8
6.1 Building fabric and environmental protection	8
6.1.1 General	8
6.1.2 Insulation and thermal stability (Thermal)	8
6.1.3 Airtightness	9
6.1.4 Hygroscopicity/permeability (Vapor)	9
6.1.5 Air pressurization and repositories	9
6.1.6 Modelling	10
6.2 Building materials and stability	10
6.2.1 General	10
6.2.2 Foundations and ground-bearing slabs	10
6.2.3 Exterior	11
6.2.4 Roof	11
6.2.5 Interior — General	12
6.2.6 Interior finishes	12
6.2.7 Off gassing of construction materials	12
6.2.8 Building equilibration	13
6.2.9 Floors	13
6.3 Mechanical/HVAC systems	14
6.3.1 General	14
6.3.2 Equipment location	14
6.3.3 Design considerations	14
6.4 Security	17
6.4.1 General	17
6.4.2 Protection against intruders	17
6.4.3 Doors and circulation routes	17
6.4.4 Services	18
6.4.5 Windows	18
7 Furniture and lighting considerations	18
7.1 Furniture	18

7.1.1	General	18
7.1.2	Material requirements	18
7.1.3	Furniture configuration in the repository ambient conditions	18
7.1.4	Types of storage furniture	19
7.1.5	Mobile shelving systems	20
7.2	Lighting	20
7.2.1	General	20
7.2.2	Repository	21
7.2.3	Artificial light sources	21
7.2.4	Natural light sources	22
7.2.5	Collection-level mitigation strategies for reducing light exposure in existing repositories	22
8	Environmental monitoring	23
8.1	General	23
8.2	Methodology	23
8.2.1	General	23
8.2.2	Equipment	23
8.2.3	Deployment and sample rates	23
8.2.4	Data retention and analysis	24
8.2.5	Other data sources	24
9	Building-related hazards to collections	25
9.1	Pest considerations	25
9.2	Water considerations	25
9.3	Fire protection and prevention	26
9.3.1	General	26
9.3.2	Fire risk assessment	26
9.3.3	Structural fire protection	26
9.3.4	Minimizing fire hazard in an electrical system	27
9.3.5	Minimizing fire hazards in ventilation plant and equipment	28
9.3.6	Fire detection and firefighting	28
9.4	Seismic	29
9.5	Power/Emergency power	30
9.5.1	General	30
9.5.2	Emergency power	30
10	Facility records and maintenance	30
10.1	Facility records	30
10.2	Maintenance	30
	Annex A (informative) Automatic fire-fighting systems	32
	Annex B (informative) Recommended climatic conditions for the long-term storage of archive and library materials	34
	Annex C (informative) Environmental transitions for materials	37
	Bibliography	38