





Archive Maintenance Handbook



egislations and

The Building Location should be

Close to users and researchers away from:

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Flood Prone areas



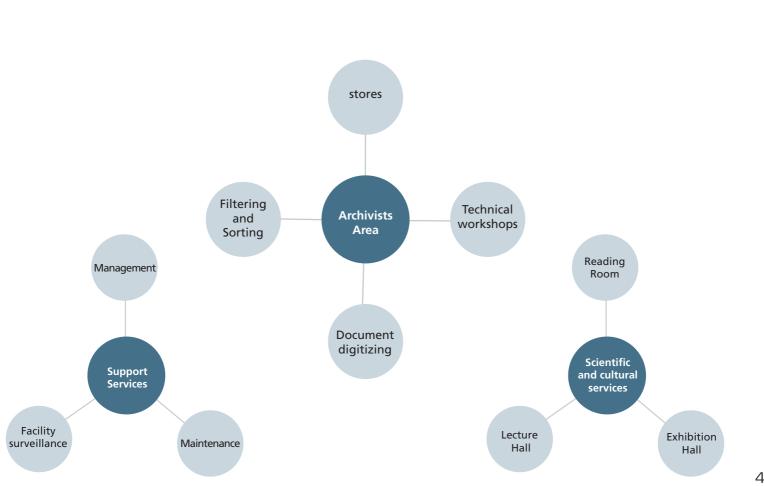
Areas with slippery soil



Sources causing fire and explosion



Areas contaminated with gasses and chemical emissions



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Equipment and materials

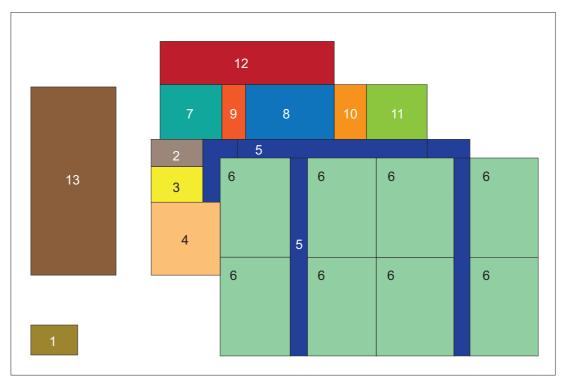
Prohibited Materials

The hazards and disasters

Legislations and international standards

Building Facilities (2/2)

- Security office
- Main entrance
- Visitors reception
- Lecture hall
- Corridors
- Archive stores.
- Management office
- Sorting and indexing halls
- Technical workshops
- **Collecting Archive Material**
- Disinfection & sterilization
- Electronic archiving
- Parking



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Specification of an Archive Storage Room (1/3)

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1. Hall space

• The area of each store: should not exceed 200 m²

• The store height: 2.50 m

• Fixed shelves capacity: 1100 kg \ m²

Mobile shelves capacity: 1700 kg \ m²

• The width of corridors in the store:

Main corridor: 120 cm

Sub-corridors: 80 cm



Specification of an Archive Storage Room (2/3)

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2. Floors and Paints

Floors

The floors to be:

- Incombustible.
- Non-carrier of dust



Paints Paints used must contain fire resistant material for a period of one hour at least.

Specification of an Archive Storage Room (3/3)

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3. Doors and Windows

Doors

Must be of the following specifications:

- To be fireproof for two hours at a temperature of 1,000 degrees.
- To have a system of automatic shut down in case of fire.
- Each room to have 2 doors (the main door + Emergency exit).
- The door width should be 120 cm



Windows

Must be of the following specifications:

- The size not exceeding 50 x 100 cm.
- To occupy 10% of the wall area.
- The glass should be tinted with sunlight insulation.





1. Equipment for Providing the Appropriate Climate (1/2)

Temperature

- Adjust the temperature through the central or the local air conditioning system, or by using the measuring temperature devices mobile or fixed in the hall.
- Control temperature to be from 18 to 20 degrees for the paper (See temperature and humidity table according to media type)
- To be stable in each room.
- To provide the quality of air
- Provide air purification by the air conditioning systems to get rid of dust and contaminants, or the provision of separate devices to purify the air.

Humidity

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- Automatically adjust the humidity level through the central air conditioning system by regulating dedicated humidity measuring devices
- The humidity should not exceed 55 – 60% for paper (See temperature and humidity table according to media type)
- To be stable in each hall



Light

Light should be measured by the Lux unit and the following should be taken into account:

- Lighting (cold light) 150 Lux.
- Turn off the light when the hall is not used.
- Lamps should not in touch with the shelves and archive boxes.
- Documents should be away from windows.
- The use of stained glass to refract the sun light



1. Equipment for Providing the Appropriate Climate (2/2)

Table of temperatures and humidity percentages according to the media types:

Container	Temperature	Humidity percentage
Paper	18° c ± 2° c	55% ± 5%
Colored films	-6° c ± 2° c	25%
Films (black and white)	17°c ± 1°c	35% ± 5%
Audio tapes	17°c ± 2°c	40% ± 5%
Photographs (black and white)	12° c ± 1° c	35% ± 5%
Colored photographs	5° c ± 1° c	35% ± 5%
Electronic media	18° c ± 1° c	40% ± 5%

2. Alarm and firefighting system

Alarms

An early alert network should be installed:

- Automatically goes on with the spread of smoke.
- Is linked to the automatic extinguishing system.
- Is contact to the Civil Defense.
- Inspected on a regular basis.





Fire Extinguishers in the Normal Archive

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A manual extinguisher must be provided (bottles of CO2 powder) inside and outside the hall



Fire extinguishers in Strategic Archive room

Provide extinguishing network with gas:

- INERGEN
- FM 200
- NAF's 125





3. Security System

Surveillance and Guarding System

- Installation of a surveillance camera system inside and outside the hall.
- Hire an employee to guard the building and supervise the system.



Access Control System

An access control system should be installed to track the circulation of :

Documents.

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Authorized Employees.



4. Cabinets





Maps and Plans



Microfilms and Electronic medias



Confidential Archive Materials



5. Shelves

Specifications of Shelves:

- **Strong Steel Shelves**
- Height: 2.20m
- Depth: 30cm to 40cm on each side
- The length of the shelf: 100cm to 120cm
- The length of the shelf row: not exceeding 10m/longitudinal
- The weight of the full fixed shelves: 1100kg/m²
- Weight of the full mobile shelves: 1700kg/m²
- The shelves base shall be raised up above the ground level by of 10cm
- Installing shelves as follows:
- main corridor: 120cm
- sub-corridors: 80cm



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(Mobile Shelf)



fixed shelves

6. Archival Boxes

Specifications of Archive Boxes:

- Made of cardboard or any other material that is able to save the document from damage.
- Acid Free Materials.
- Free from acute angled and potentially rusty materials.
- Measurement of archive boxes

Height: 35 cm Depth: 27 cm

Width: 8 cm



Cardboard boxes designed to store a small number of files

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Box File with hanging sides which have a top moving cover



Normal Box File



7. Files

Specifications of Files:

- Made of cardboard or any other Protective material.
- Acid Free materials.
- Free from acute and potentially rusty materials.
- File Measurement

Length: 30 cm

Width: 22 cm

Hanging file



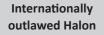
Flat files



Materials not allowed to be used in Archive Preservation

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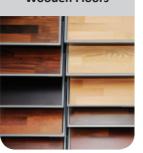




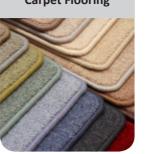
Water sprinkler to extinguish the fire



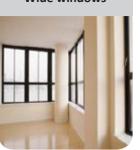
Wooden Floors



Carpet Flooring



Wide windows



Files requiring paper punching



Stapler & Puncher



Paper shredder

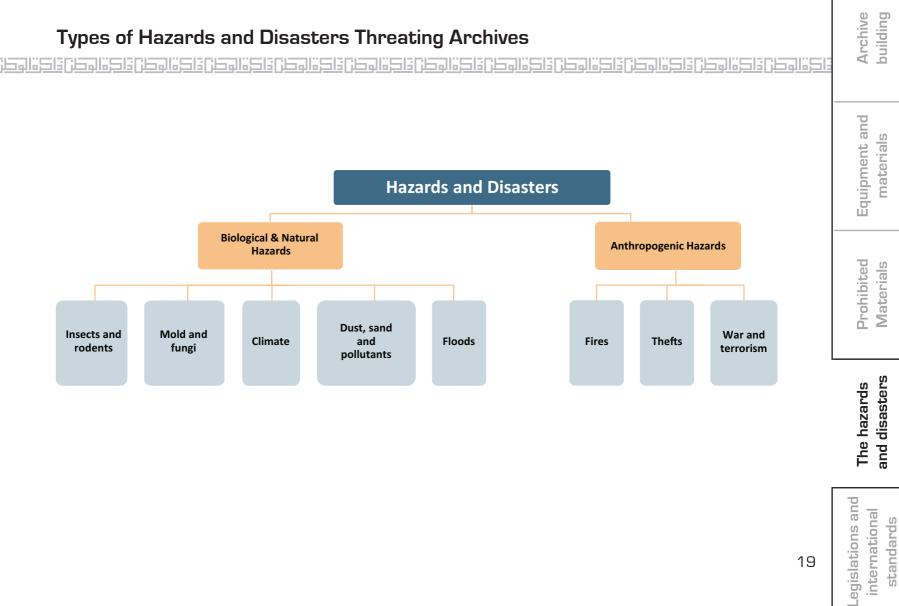


Wooden cabinets



Wooden doors





Preventative Procedures : Biological & Natural Hazards (1/2)

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Insects and rodents.

- 1. cleaning and maintaining of the building
- 2. Spraying pesticides without damaging documents.
- 3. Filling the gaps and cracks so that insects cannot penetrate.
- 4. Closing the doors tightly.
- 5. Preventing the acces of materials that may attract insects & rodents.
- 6. Keeping the disposal of trash and garbage at a reasonably safe distance from the hall



Mold and fungi

- Keeping the air conditioning running at all time with regular ventilation to ensure the renewal of the air.
- Ensuring the access of proper amount of light to the room.
- Providing regular treatment and separation of the damaged documents to prevent transmission of infection.



Climate

- 1. Using systems complying with the international standards in temperature and humidity control for every store material
- 2. Ensuring the provision of sufficient light and turning off the lights when the halls are non vacant



Dust, sand and pollutants

- Regular cleaning of the halls using electrical cleaning equipment.
- Installing an air purification systems.
- Changing the Filter of the AC & providing periodic ventilation.
 - Filling in the gaps and cracks.

Preventative Procedures : Biological and Natural Hazards (2/2)

Floods

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Floods may occur due to natural factors such as heavy rain or human factors such as negligence and non-compliance with regulations and standards. To avoid the exposure of the archive halls to floods, or to minimize the extent of damage, the following must be considered:

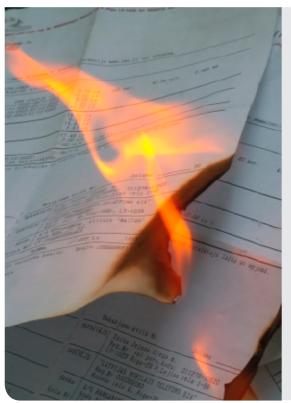
- Avoid locating archive stores in the building basement.
- The archive halls must not accommodate any transiting water pipes.
- Seal the gaps that cause the rain to seep in to the building.
- Install a water leakage detection system in the halls.
- Regulary maintian the sewage of water pipes in the building.
- Lift the shelves based at the ground level to a height of 10 cm.
- Establish an emergency recovery plan to face the flood.







Preventative Procedures : Anthropogenic Hazards (1/3)



Fires

Archive fires occur either due to negligence and non-compliance with regulations and standards of safety and security, or intentionally caused by arson. The following should be considered to avoid any fire an minimize the extent of damage:

- Keep the archive halls far from any close risk such oils, gasoline and gas.
- Install, maintain and monitor the early alarms systems against fire, and link them to the early automatic gas extinguishing system.
- Connect the early alarm system with the Emergency Department in the organization and the Civil Defense Department.
- Divide the stores into halls not exceeding 200 m², and isolate them to prevent the spread of flames.
- Equip the archive halls with fireproof materials, such as metal shelves and steel doors, and avoid the use of wood and rubber materials, especially as flooring.
- Use fire-proof doors.

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- Cover the electrical wires with fire resistance metal pipes.
- Provide fire extinguishers and manual fire fighting systems at the entrances, and in all corners of the archive hall.
- Ensure the establishment and endorsement of an emergency and rescue plan incase of fire.

Preventative Procedures : Anthropogenic Hazards (2/3)



Theft

Ensure the following:

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- Access control to the archive stores and the circulation of borrowed documents borrowing.
- Install a surveillance camera system inside and outside the archive hall.
- Install an anti-theft alarm system.
- Install a system for alternate guard and link it with the surveillance system.

Preventative Procedures : Anthropogenic Hazards (3/3)



War & Terrorism

You shall secure the following:

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- A document backup policy .
- Copies of vital documents.
- Diversifying the storage location of backup copies
- Setting and approving an emergency and documents evacuation plan in anticipation of wars.



The Legislations in the Field of Archive Maintenance (1/2)

The Federal Law No. (7) of 2008, on the National Archives, amended by the Federal Law No. (1) of 2014



The Legislations in the Field of Archive Maintenance (2/2)

: الوطرة الوطرة

The executive by law of the Federal Law No. (7) of 2008 on the National Center for Documentation and Research



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