

Titre de la conférence

Le nouveau bâtiment des Archives nationales
The new building of the National Archives France

Intervenant/Speaker :

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Description de la conférence / Conference description

A new building for the National Archives France

Main targets of the project

Architectural competition

General organisation of the building with documents and plans.

Short distances for archive transfers (transfers and access)

Technical features of conservation building :

- Building physical features for an optimal conservation of archives :
thermal inertia with compact organisation and thick concrete walls
concrete with water quantity control

- Storage building materials and equipments with chemical control
4 hours cut fire concrete walls

Dynamical technical equipments and intelligent system for a good conservation :

- previous targets - centralized technical management system
fire detection and water mist protection

- Air treatment system and chosen values for temperature and RH.

Reading room furniture - organisation – ergonomic principles

Building global cost

Project schedule

Few pictures of construction sequences and operation calendar

Air conditioning system presentation for storages of the new building of the National Archives France :

Organisation of technical air conditioning equipments in comparison with storage organisation and building shape

Strategy for global HR control – fresh air equipment

Air conditioning delivery organisation

Diffusion mode – very high induction

Particular modes for ventilation

- Decontamination mode

- Periodique ventilation for wide storages

- Economic flow

Control mode - centralized technical management system - supervision

Target values for temperature and relative air humidity – regulation principles for a very slow RH evolution

Air conditioning treatment during filling up the storages

Energetic results in common speed