Storage • Gallery

1. National Museum of Contemporary Art, Korea
2. National Museum of Contemporary Art, Korea
3. National Museum of Contemporary Art, Korea
4. National Museum of Contemporary Art, Korea
1. Leeum, Samsung Museum of Art
2. Leeum, Samsung Museum of Art
3. Seoul Museum of Art
4. Seoul Museum of Art
수장고 시스템
Storage System

수장고는 박물관, 미술관, 도서관, 자료관, 기념관 등의 유물이나 책물 또는 자료이며 수장고를 보관하는 장소다. 수장고는 전시 및 대출기간을 제외한 대부분의 기간을 수장고에서 보관하고 관리하기 때문에 수장고의 보존환경은 수장고의 폐쇄성, 방뢰성이 있어 매우 중요한 역할을 한다. 수장고시스템은 이러한 수장고의 필요성을 파악하고 수장고를 보다 안정적이고 오래간격 보존하기 위한 보존구조지침을 목적으로 합니다.

The storage in museums, art galleries, visitor centers and libraries are the places to preserve the relics, works or materials. The preservative environment of the storage plays a critical role in the prevention of relic deterioration, because the collections are mostly kept in the storage except for the period that they are displayed or lent. The storage, we developed, is the preservation environment that safely preserves such collections for a long period by maximally slowing down the speed of the deterioration.
Storage ▪ Facility

MUBIC Furring Panel

This is a furring material with a humidity control finishing. With zero vapor permeability features, it is fixed on the structural frame of floor, wall and ceiling. This tightly blocks the primary building wall and the inner storage, preventing external heat, humidity, pollutants, and harmful elements generated by concrete contraction and extension.

Performance

1. Structure: Lightweight Steel Frame
2. Purpose: Light support material for wall, ceiling, and floor of storages, library, etc.
3. Environment: Corrosion resistant aluminum material is used.
6. Maintenance: No need formed on the surface for over 140 hrs.
7. Certification: Demonic patent (No. KH1468)

MUBIC COAT construction sample

This material is coated as a finishing material for walls and doors of the storage, which is subjected to the accelerated deterioration due to rapid change in humidity. Since its introduction in 2003, this material has replaced the existing flammable wooden panels to realize the stable environment of the storage, and its superiority has been recognized widely.

2. Structure: Humidity Control Paints | 2. ECO friendliness | pH 7.2~7.5の塗料、去電性塗料、フロア塗料、Formaldehyde Emission: E0 (E150 1998-4-2002)
3. 3. Structure: Humidity Control Paints | 防腐性 | タッピング面（塗料、UVカット、Endurance）の表面塗料に耐候性がある
4. Structure: Humidity Control Paints | 耐久性 | タッピング面（塗料、UVカット、Endurance）の表面塗料に耐候性がある
5. Structure: Humidity Control Paints | 耐久性 | タッピング面（塗料、UVカット、Endurance）の表面塗料に耐候性がある

Storage | 수집고 | 50 Storage | 수집고 | 51
조습기능 원목 마감재
Humidity Controlling Board (Material: Wood)

 Traditionally, paulownia and cedar woods have been used for lining-finishing materials of storage system. The neck-jjokmae-processed materials were mounted onto the frameworks. As wooden plank with humidity features inconsistent control of humidity, it is recommended to use wooden materials with eco-friendly finishing for humidity controlling board.

바닥 마감재
Floor Finishes

<table>
<thead>
<tr>
<th>재료현\nMaterials</th>
<th>적용상\nApplicable place</th>
<th>두께\nThickness</th>
<th>비 고\nNote</th>
</tr>
</thead>
<tbody>
<tr>
<td>나무 목재\nWood</td>
<td>네도님나무 목재 (도식지빠짐)</td>
<td>22mm</td>
<td>- Nonslip and friction-resistant material</td>
</tr>
<tr>
<td></td>
<td>단일나무 목재 (도식지빠짐)</td>
<td>22mm</td>
<td>- Soft materials like a cushion to absorb impact to a certain extent when dropped by mistake amid moving the material. Should neither create gap nor produce dust.</td>
</tr>
<tr>
<td></td>
<td>달인나무 목재 (도식지빠짐)</td>
<td>18mm</td>
<td>- Should neither create crack nor produce dust.</td>
</tr>
<tr>
<td></td>
<td>수성상 수성고 창실</td>
<td></td>
<td>- Cleaning and handling for construction should be easy.</td>
</tr>
<tr>
<td></td>
<td>범상나무 목재</td>
<td>22mm</td>
<td>- Materials neither damaged by insects nor generating static electricity.</td>
</tr>
<tr>
<td></td>
<td>비닐 타일\nVinyl tiles</td>
<td>조각수성고 창실</td>
<td>- Materials like quentin and beachtree wood should be acquired and there should be no knots (knots will incur chemical reaction by the resin).</td>
</tr>
<tr>
<td></td>
<td>무기질비열방열재\nInorganic noncombustible finishes</td>
<td>조각수성고 창실</td>
<td>- Materials contained none-noxious, none-volatile components</td>
</tr>
<tr>
<td></td>
<td>도료\nPaints</td>
<td>외부상 창실</td>
<td>- Materials neither damaged by insects nor generating static electricity.</td>
</tr>
<tr>
<td></td>
<td>친환경부착식\nEco-friendly appley</td>
<td>외부상 창실</td>
<td>- Materials like quentin and beachtree wood should be acquired and there should be no knots (knots will incur chemical reaction by the resin).</td>
</tr>
</tbody>
</table>
공조설비
Air Conditioning System

공조설비는 보관용 공간과 액정에서 열을 제거하고, 영양을 공급하여 보관과 보관에 적합한 환경을 제공하는 시스템입니다.

Type 1. 간접호환방식 (대형 보관실)
Indirect air conditioning method (Large storage)

Air conditioning of storage should be separated from other spaces when planning the air conditioning system so as to be operated independently, and should be designed to prevent spreading of heat and smoke through duct in case of fire. In addition, from the aspect of maintenance of the air-conditioning system, it should be designed to reduce operation of air conditioner and minimize failure of the equipment.

Disadvantage:
Ventilation system because the airflow is wide according to the location.

Advantage:
Internal airflow is very stable without concentration because the air is dispersed and supplied and exhausted from the bottom.

Type 2. 간접호환방식 (중형 및 미형 보관실)
Indirect air conditioning method (Small and medium size-including air space)

Disadvantage:
Requires a large amount of initial investment.

Advantage:
Internal airflow is very stable without concentration because the air is dispersed and supplied and exhausted from the bottom.

Type 3. 간접호환방식 (중형 및 미형 보관실 제외)
Indirect air conditioning method (Small and medium size-excluding air space)

Disadvantage:
Ventilation system because the airflow is wide according to the location.

Advantage:
Internal airflow is good.

Type 4. 간접호환방식 (중형 및 미형 보관실 제외)
Indirect air conditioning method (Small and medium low storage or ancillary room)

Advantage:
Requires a small amount of initial investment but energy efficiency is high.

Disadvantage:
Air circulation is poor if there is no separate duct, and the devotion of airflow to video according to the location.

향온습도기 표준사항
Standard Specification of Thermo-hygrostat (Package type)

<table>
<thead>
<tr>
<th>타입</th>
<th>냉장용량 (kg)</th>
<th>냉방용량 (kcal/h)</th>
<th>냉방용량 (kcal/h)</th>
<th>기습용량 (kg/h)</th>
<th>공기용량 (lit/min)</th>
<th>380V x 50Hz</th>
<th>380V x 60Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>3RT</td>
<td>8,250</td>
<td>5,150</td>
<td>4</td>
<td>30</td>
<td>66</td>
<td>9.7</td>
<td></td>
</tr>
<tr>
<td>5RT</td>
<td>14,250</td>
<td>7,340</td>
<td>4</td>
<td>50</td>
<td>110</td>
<td>15.0</td>
<td></td>
</tr>
<tr>
<td>7RT</td>
<td>20,250</td>
<td>10,320</td>
<td>8</td>
<td>75</td>
<td>165</td>
<td>20.7</td>
<td></td>
</tr>
<tr>
<td>10RT</td>
<td>28,500</td>
<td>13,760</td>
<td>8</td>
<td>100</td>
<td>214</td>
<td>20.7</td>
<td></td>
</tr>
</tbody>
</table>

비고
Power Supply

3ph x AC 200V
400V x 60Hz

제공 전압: 200V ~ 400V
주파수: 50Hz ~ 60Hz
**Fire Extinguishing System**

Gas fire extinguishing system is applied to the places where use of water fire extinguishing system is impractical due to electric insulation and possible damage to the devices.

### System types

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Flooding System</td>
<td>The extinguishing gas is distributed to the entire room volume and extinguishes the fire by the toxic gas.</td>
</tr>
<tr>
<td>Modular Type</td>
<td>Extinguishing gas is used in the room volume divided into fire compartments.</td>
</tr>
<tr>
<td>Package Type</td>
<td>Extinguishing gas is used in the room volume where it is not required to divide into fire compartments.</td>
</tr>
</tbody>
</table>

### Advantages

- **A major way**
- **Installation of pipe and head**
- **Extinguishing Gas Container**

### Installation

- **Extinguishing Gas Container**
  - Installed in the extinguishing gas room
  - Installed at the ceiling

### Smoke Detection

- **Smoke Detection**
  - It is not required to install the extinguishing gas room
  - Installed at the ceiling

### Safety

- **Fire Control**
  - It is not required that the fire zone should be divided to fire compartments
  - Head

### Electric System

- **Electric System**
  - It is not required to install the extinguishing gas room
  - Installed at the ceiling

### Security System

- **Security System**
  - It is not required to install the extinguishing gas room
  - Installed at the ceiling

### UV Protection Light

- **UV Protection Light**
  - It is not required to install the extinguishing gas room
  - Installed at the ceiling

### Access Control

- **Access Control**
  - It is not required to install the extinguishing gas room
  - Installed at the ceiling

### Video Security

- **Video Security**
  - It is not required to install the extinguishing gas room
  - Installed at the ceiling
**Main Functions**

- **Security**: The combination of 1,000,000 changeable combination dial lock and cylindrical lock. In addition, it can be applied with finger scan key, card key, digital key and etc.

- **Differance Testability**: The combination of 1,000,000 changeable combination dial lock and cylindrical lock. In addition, it can be applied with finger scan key, card key, digital key and etc.

- **Safety**: The combination of 1,000,000 changeable combination dial lock and cylindrical lock. In addition, it can be applied with finger scan key, card key, digital key and etc.

- **Convenience**: The combination of 1,000,000 changeable combination dial lock and cylindrical lock. In addition, it can be applied with finger scan key, card key, digital key and etc.

- **Options**: The combination of 1,000,000 changeable combination dial lock and cylindrical lock. In addition, it can be applied with finger scan key, card key, digital key and etc.

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**Dedicated Door**

- **Door Type**: MUBIC Door
- **Fire Test**: Acheron
- **Rear Canopy Maximum Temperature of 26°C**: 80

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**Fire Test Certif**

- **Testing Institute test agencies**: Disaster
- **Fire Test Method**: KS F 2268-1 (2001)

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**Safety**

- **Convenience**: The combination of 1,000,000 changeable combination dial lock and cylindrical lock. In addition, it can be applied with finger scan key, card key, digital key and etc.

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**Convenience**

- **Options**: The combination of 1,000,000 changeable combination dial lock and cylindrical lock. In addition, it can be applied with finger scan key, card key, digital key and etc.

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- **Options**: The combination of 1,000,000 changeable combination dial lock and cylindrical lock. In addition, it can be applied with finger scan key, card key, digital key and etc.
Storage • Furniture

Storage Furniture

The storing rack for storage is designed to keep the collections in most efficient and safe manner, considering various shapes and preservation conditions of them. We produce suitable storage furniture to meet the requirements of clients regardless whether the order would be for standard specification or not: we always appreciate orders with special design depending on the conditions of collections. In the case of painting racks for art galleries, prior negotiation with the architectural department of the company is required.

Item No. SGM-F001
Steel Rack
- Standard size: 1300 x 700 x 2100
- Painting area: 750 x 750 x 150
- Capacity: 150kg

Item No. SGM-F002
Steel Rack
- Standard size: 1300 x 900 x 2100
- Painting area: 900 x 900 x 150
- Capacity: 250kg

Item No. SGM-F003
Steel Rack
- Standard size: 1300 x 900 x 2100
- Painting area: 900 x 900 x 150
- Capacity: 250kg

Item No. SGM-F004
Steel Rack
- Standard size: 1200 x 900 x 2100
- Painting area: 900 x 900 x 150
- Capacity: 250kg

Item No. SGM-F005
Steel Cabinet
- Standard size: 1300 x 700 x 2100
- Functioned Humidity Control
- Humidity Range: 1~10%
- Painting area: 700 x 700 x 150
- Capacity: 300kg

Item No. SGM-F006
Steel Cabinet
- Standard size: 1300 x 700 x 2100
- Functioned Humidity Control
- Humidity Range: 1~10%
- Painting area: 700 x 700 x 150
- Capacity: 300kg

Item No. SGM-F007
Steel Cabinet
- Standard size: 1300 x 700 x 2100
- Functioned Humidity Control
- Humidity Range: 1~10%
- Painting area: 700 x 700 x 150
- Capacity: 300kg

Item No. SGM-F008
Steel Cabinet
- Standard size: 1300 x 700 x 2100
- Functioned Humidity Control
- Humidity Range: 1~10%
- Painting area: 700 x 700 x 150
- Capacity: 300kg

Item No. SGM-F009
Steel Drawer
- Standard size: 1300 x 900 x 2100
- Painting area: 900 x 900 x 150
- Capacity: 250kg

Item No. SGM-F010
Steel Drawer
- Standard size: 1300 x 900 x 2100
- Painting area: 900 x 900 x 150
- Capacity: 250kg

Item No. SGM-F011
Steel Drawer
- Standard size: 1300 x 900 x 2100
- Painting area: 900 x 900 x 150
- Capacity: 250kg

Item No. SGM-F012
Wooden Drawer
- Standard size: 1200 x 700 x 2100
- Painting area: 700 x 700 x 150
- Capacity: 250kg

Item No. SGM-F013
Mobile Rack
- Standard size: 2905 x 600/650 x 2315

Item No. SGM-F014
Mobile Rack
- Standard size: 2905 x 600/650 x 2315

Item No. SGM-F015
Mobile Rack
- Standard size: 2905 x 600/650 x 2315

Item No. SGM-F016
Mobile Rack
- Standard size: 2905 x 600/650 x 2315
수장대  
Storage Furniture

미술관  Art Gallery

Item No. SGM-F017
유형 : 슬라이딩철망장
규격 : 1,200 x 900 x 2,315
화목 : 6mm
설명 : 슬라이딩철망장

Item No. SGM-F018
유형 : 슬라이딩철망장
규격 : 1,500 x 1,000 x 2,400
화목 : 6mm
설명 : 슬라이딩철망장

Item No. SGM-F019
유형 : 슬라이딩철망장
규격 : 1,200 x 900 x 2,315
화목 : 6mm
설명 : 슬라이딩철망장

Item No. SGM-F020
유형 : 슬라이딩철망장
규격 : 1,200 x 900 x 2,400
화목 : 6mm
설명 : 슬라이딩철망장

Item No. SGM-F021
유형 : 슬라이딩철망장
규격 : 1,500 x 1,000 x 2,400
화목 : 6mm
설명 : 슬라이딩철망장

Item No. SGM-F022
유형 : 슬라이딩철망장
규격 : 1,500 x 1,000 x 2,400
화목 : 6mm
설명 : 슬라이딩철망장

Item No. SGM-F023
유형 : 슬라이딩철망장
규격 : 1,500 x 1,000 x 2,400
화목 : 6mm
설명 : 슬라이딩철망장

Item No. SGM-F024
유형 : 슬라이딩철망장
규격 : 1,200 x 900 x 2,400
화목 : 6mm
설명 : 슬라이딩철망장

Item No. SGM-F025
유형 : 슬라이딩철망장
규격 : 1,500 x 900 x 2,400
화목 : 6mm
설명 : 슬라이딩철망장

Item No. SGM-F026
유형 : 슬라이딩철망장
규격 : 1,500 x 900 x 2,400
화목 : 6mm
설명 : 슬라이딩철망장

Item No. SGM-F027
유형 : 슬라이딩철망장
규격 : 1,500 x 900 x 2,400
화목 : 6mm
설명 : 슬라이딩철망장

Item No. SGM-F028
유형 : 슬라이딩철망장
규격 : 1,500 x 900 x 2,400
화목 : 6mm
설명 : 슬라이딩철망장

* Ceiling height should be more than 4m.

* Ceiling height should be more than 4m.

* Ceiling height should be more than 4m.

Storage Furniture

Art Gallery
### Related Products

#### Storage Box
- Item No. SGM-F029: Mobile Rack  
  - Standard size: 282 x 282 x 330

#### Mobile Rack
- Item No. SGM-F030:  
  - Standard size: 285 x 285 x 460

#### Static Rack
- Item No. SGM-F032:  
  - Standard size: 200 x 200 x 300

#### Equipment Pull-out Table
- Item No. SGM-F033:  
  - Standard size: 2905 x 100 x 2315

#### Plastic Box
- Item No. SGM-F034:  
  - Standard size: 520 x 75 x 64

#### Mobile Rack
- Item No. SGM-F036:  
  - Standard size: 2445 x 100 x 2315

#### Static Rack
- Item No. SGM-F037:  
  - Standard size: 2445 x 450 x 2225

#### Other Related Products

- **Paulownia Box**
  - Item No. SGM-F029
  - Item No. SGM-F030
  - Item No. SGM-F031
  - Item No. SGM-F032
  - Item No. SGM-F033
  - Item No. SGM-F034

- **Korean Traditional Paper**
  - Item No. SGM-F035

- **Shoe Rack**
  - Item No. SGM-F038

- **Cleaning Material Closet**
  - Item No. SGM-F039

- **Photo Work Table**
  - Item No. SGM-F040

- **Plastic Box**
  - Item No. SGM-F041

- **Sticky Bag**
  - Item No. SGM-F042

- **Sticky Bag**
  - Item No. SGM-F043

- **Storage Box**
  - Item No. SGM-F044

- **Storage Box**
  - Item No. SGM-F045

- **Storage Box**
  - Item No. SGM-F046

- **Storage Box**
  - Item No. SGM-F047

- **Storage Box**
  - Item No. SGM-F048

- **Storage Box**
  - Item No. SGM-F049
<table>
<thead>
<tr>
<th>Year</th>
<th>Major Accomplishments</th>
</tr>
</thead>
</table>
| 1998-2000 | - National Assembly Memorial Hall  
- Gwangju National Museum  
- National Library of Korea  
- Busan Museum  
- Woju Museum of History |
| 2001 | - Seoul Museum of Art  
- Cheonggyecheon Stream  
- National Museum of Contemporary Art, Korea  
- Deoksugung National Museum |
| 2002 | - National Museum of Korea  
- National Museum of Contemporary Art, Korea  
- Daejeon National Museum  
- National Museum of Korea  
- Jeonju National Museum  
- National Museum of Modern Art, Korea  
- Pocha Museum  
- Chungcheong National Museum |
| 2003 | - National Museum of Korea  
- Gwangju National Museum  
- National Museum of Contemporary Art, Korea  
- Daejeon National Museum  
- National Museum of Korea  
- Jeonju National Museum  
- National Museum of Modern Art, Korea  
- Pocha Museum  
- Chungcheong National Museum |
| 2004 | - National Museum of Korea  
- Gwangju National Museum  
- National Museum of Contemporary Art, Korea  
- Daejeon National Museum  
- National Museum of Korea  
- Jeonju National Museum  
- National Museum of Modern Art, Korea  
- Pocha Museum  
- Chungcheong National Museum |
| 2005 | - National Museum of Korea  
- Gwangju National Museum  
- National Museum of Contemporary Art, Korea  
- Daejeon National Museum  
- National Museum of Korea  
- Jeonju National Museum  
- National Museum of Modern Art, Korea  
- Pocha Museum  
- Chungcheong National Museum |
| 2006 | - National Museum of Korea  
- Gwangju National Museum  
- National Museum of Contemporary Art, Korea  
- Daejeon National Museum  
- National Museum of Korea  
- Jeonju National Museum  
- National Museum of Modern Art, Korea  
- Pocha Museum  
- Chungcheong National Museum |
| 2007 | - National Museum of Korea  
- Gwangju National Museum  
- National Museum of Contemporary Art, Korea  
- Daejeon National Museum  
- National Museum of Korea  
- Jeonju National Museum  
- National Museum of Modern Art, Korea  
- Pocha Museum  
- Chungcheong National Museum |
| 2008 | - National Museum of Korea  
- Gwangju National Museum  
- National Museum of Contemporary Art, Korea  
- Daejeon National Museum  
- National Museum of Korea  
- Jeonju National Museum  
- National Museum of Modern Art, Korea  
- Pocha Museum  
- Chungcheong National Museum |
| 2009-2010 | - National Museum of Korea  
- Gwangju National Museum  
- National Museum of Contemporary Art, Korea  
- Daejeon National Museum  
- National Museum of Korea  
- Jeonju National Museum  
- National Museum of Modern Art, Korea  
- Pocha Museum  
- Chungcheong National Museum |
| 2011-2012 | - National Museum of Korea  
- Gwangju National Museum  
- National Museum of Contemporary Art, Korea  
- Daejeon National Museum  
- National Museum of Korea  
- Jeonju National Museum  
- National Museum of Modern Art, Korea  
- Pocha Museum  
- Chungcheong National Museum |
| 2013 | - National Museum of Korea  
- Gwangju National Museum  
- National Museum of Contemporary Art, Korea  
- Daejeon National Museum  
- National Museum of Korea  
- Jeonju National Museum  
- National Museum of Modern Art, Korea  
- Pocha Museum  
- Chungcheong National Museum |

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- Gwangju National Museum  
- National Museum of Contemporary Art, Korea  
- Daejeon National Museum  
- National Museum of Korea  
- Jeonju National Museum  
- National Museum of Modern Art, Korea  
- Pocha Museum  
- Chungcheong National Museum