TECHNICIAN TRAINING FOR THE CONSERVATION OF MOSAICS

PART 1
THE CONSERVATION OF IN SITU MOSAICS

Deterioration of mosaics

Livia Alberti, Ermanno Carbonara, Thomas Roby
Deterioration

The deterioration of a mosaic is the process of transformation that leads to the gradual loss of the original qualities of the constituent materials of a mosaic and the separation of its components (tesserae, mortars).
Main factors of deterioration:

Environment

Human activities
# Deterioration Process

<table>
<thead>
<tr>
<th>Factors</th>
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<tbody>
<tr>
<td><strong>Environment</strong></td>
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<td></td>
</tr>
</tbody>
</table>
| Climatic and environmental agents | Atmospheric precipitation: rain, snow  
Water condensation / capillary rise  
Temperature and humidity variations  
Temperature below 0°C  
Marine salt / wind  
Water pooling / soil accumulation | Salt crystallization due to wet-dry cycles  
Contraction—dilatation cycles of materials  
Freeze-thaw cycles | Efflorescence / Incrustations  
Deteriorated tesserae  
Deteriorated mortars between tesserae |
| Bio-deterioration agents      | Micro-organisms (algae, lichens, moss, etc.)  
Vegetation (grass, plants, bushes, trees, etc.)  
Animals (insects, rats, moles, sheep, cows, etc.) | Mechanical pressure caused by root growth  
Loss of material due to the digging of tunnels & building of nests  
Mechanical pressure caused by walking on mosaics | Deteriorated tesserae  
Deteriorated mortars between tesserae  
Bulges / Detachments  
Lacunae / Cracks  
Detached tesserae / Stains |
| Natural disasters             | Earthquakes  
Floodings / Fire  
Landslides | Movement of mosaic material  
Chemical transformation of mosaic materials | Lacunae / Cracks  
Bulges / Depressions  
Detachments / Lacunae / Fractures  
Detached tesserae / Stains |
| Pollution (chemical substances present in air, water and soil) | Agricultural fertilizers  
Car exhaust emissions  
Industrial discharges into water and air  
Acid rain | Chemical transformation of mosaic materials  
Salt crystallization | Deteriorated tesserae  
Deteriorated mortars between tesserae  
Stains  
Efflorescence / Incrustations |
| Human activities              | Poor management of archaeological sites  
Poorly executed work  
Growth of plants and micro-organisms | Salt crystallization  
Chemical transformation of materials | Lacunae / Cracks  
Detachments  
Bulges / Depressions  
Detached tesserae  
Deteriorated tesserae  
Deteriorated repair mortars  
Deteriorated support panels  
Stains |
| Inappropriate conservation interventions | Uncontrolled tourist access  
Use of inappropriate materials  
Untrained staff | Mechanical pressure caused by walking on mosaics and by root growth |                                            |
| Gratuitous, deliberate or accidental destruction | Vandalism, wars, etc.  
Theft of mosaic fragments  
Illegal excavations | Salt crystallization  
Chemical transformation of materials |                                            |
| Poor land use planning        | New constructions (buildings, roads, etc.) without proper excavation | Loss of materials of the mosaic |                                            |
DETERIORATION PHENOMENA

**CONDENSATION**
when the surface is cooler than the air

**CAPILLARY RISE OF WATER**

**SALT CRYSTALLIZATION**

Damaged Tesserae

Efflorescence

Incrustations

Bulges, Detachments, Cracks, Lacunae, Detached Tesserae
## Deterioration Process

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<td>Temperature below 0°C</td>
<td></td>
<td>Lacunae / cracks</td>
</tr>
<tr>
<td></td>
<td>Marine salt / wind</td>
<td>Freeze-thaw cycles</td>
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</tr>
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<td>Flooding / Fire</td>
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<td>Landslides</td>
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<td></td>
<td>Car exhaust emissions</td>
<td></td>
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<tr>
<td></td>
<td>Industrial discharges into water and air</td>
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<td>Stains</td>
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<td>without proper excavation</td>
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DETERIORATION CAUSED BY ANIMALS AND PLANTS

Tree roots

Grass roots

Lichens
Tunnels and entrance holes made by animals

Ant nests

Bird excrement
# Deterioration Process

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<td></td>
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</table>
Flooding

Landslide

Bulges, Detachments, Cracks, Lacunae, Detached Tesserae

DETERIORATION PHENOMENA
Pollution

Efflorescence, Damaged tesserae

DETERIORATION PHENOMENA
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Theft of mosaic fragments  
Illegal excavations | Loss of materials of the mosaic | |
| Poor land use planning | New constructions (buildings, roads, etc.) without proper excavation | Loss of materials of the mosaic | |
Foot traffic

New constructions
Lack of maintenance

Poor intervention
Particular deterioration phenomena due to the type and quality of the materials

Damaged Tesserae
**DATA FORM NO. 3 – CONDITION ASSESSMENT**

**STUDY PHASE**

MOSAIC ID __________ / __________ / __________

| INSPECTION TYPE | | |
|-----------------|-----------------|
| □ Initial inspection | □ Maintenance cycle |

| PRESENT EXPOSURE CONDITIONS | | |
|-----------------------------|-----------------|
| □ In open air | □ Reburied | □ Under an open shelter |
| □ Walked on | □ Under a removable cover | □ Under a closed shelter |
| □ Parts not excavated or inaccessible | | |

During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.

**STRUCTURAL DETERIORATION** *(Condition Assessment Map No. 1)*

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Tessellatum lacunae</td>
<td>□ Depressions</td>
</tr>
<tr>
<td>□ Cracks</td>
<td>□ Detachments between mosaic layers</td>
</tr>
<tr>
<td>□ Bulges</td>
<td></td>
</tr>
</tbody>
</table>

**SURFACE DETERIORATION** *(Condition Assessment Map No. 2)*

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Detached tesserae</td>
<td>□ Stains</td>
</tr>
<tr>
<td>□ Deteriorated tesserae</td>
<td>□ Incrustations</td>
</tr>
<tr>
<td>□ Deteriorated mortar between tesserae</td>
<td>□ Efflorescence</td>
</tr>
</tbody>
</table>

**PRESENCE OF BIO-DETERIORATION AGENTS** *(Condition Assessment Map No. 3)*

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Micro-organisms</td>
<td>□ Tunnels or entrance holes made by insects and other animals</td>
</tr>
<tr>
<td>□ Vegetation</td>
<td></td>
</tr>
</tbody>
</table>

**DETERIORATION OF INTERVENTIONS** *(Condition Assessment Map No. 4)*

<p>| | |</p>
<table>
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<tbody>
<tr>
<td>□ Deteriorated lacunae fills or edging repairs</td>
<td>□ Re-detached tesserae</td>
</tr>
<tr>
<td>□ Deteriorated mortar between tesserae</td>
<td>□ Deteriorated support panels</td>
</tr>
<tr>
<td>□ Deteriorated support metal reinforcements</td>
<td></td>
</tr>
</tbody>
</table>

**Reburial:**

| Presence of vegetation | Loss of fill materials | Deteriorated separation membranes |

**DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC**

<p>| | |</p>
<table>
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<tr>
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<tbody>
<tr>
<td>□ Clogged drainage</td>
<td>□ Deteriorated cover or shelter</td>
</tr>
<tr>
<td>□ Stabilized walls with new deterioration</td>
<td>□ Damaged access barrier</td>
</tr>
<tr>
<td></td>
<td>□ Other: __________</td>
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</tbody>
</table>

**OBSERVATIONS ON THE CONDITION ASSESSMENT**

**GENERAL CONDITION OF THE MOSAIC**

<table>
<thead>
<tr>
<th>□ Good</th>
<th>□ Fair</th>
<th>□ Bad</th>
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- □ Date recommended for next inspection: __________
  - (No intervention required)
- □ Date recommended for intervention: __________
  - (Intervention required)

**PREPARED BY**

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## DATA FORM NO. 3 – CONDITION ASSESSMENT

### STUDY PHASE

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<tbody>
<tr>
<td>Initial inspection</td>
<td></td>
</tr>
<tr>
<td>Maintenance cycle</td>
<td></td>
</tr>
</tbody>
</table>

### PRESENT EXPOSURE CONDITIONS

- In open air
- Reburied
- Under an open shelter
- Walked on
- Under a removable cover
- Under a closed shelter
- Parts not excavated or inaccessible

During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.

### STRUCTURAL DETERIORATION

- Tessellatum lacunae
- Depressions
- Cracks
- Detachments between mosaic layers
- Bulges
- Incrustations
- Efflorescence

### SURFACE DETERIORATION

- Detached tesserae
- Stains
- Deteriorated tesserae
- Incrustations
- Deteriorated mortar between tesserae
- Efflorescence

### PRESENCE OF BIO-DETERIORATION AGENTS

- Micro-organisms
- Vegetation
- Tunnels or entrance holes made by insects and other animals

### DETERIORATION OF INTERVENTIONS

- Deteriorated lacunae fills or edging repairs
- Re-detached tesserae
- Deteriorated support panels
- Deteriorated support metal reinforcements
- Presence of vegetation
- Loss of fill materials
- Deteriorated separation membranes

### DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC

- Clogged drainage
- Deteriorated cover or shelter
- Stabilized walls with new deterioration
- Damaged access barrier
- Other: ____________

### OBSERVATIONS ON THE CONDITION ASSESSMENT

**GENERAL CONDITION OF THE MOSAIC**

- Good
- Fair
- Bad

- Date recommended for next inspection: ____________
  (No intervention required)
- Date recommended for intervention: ____________
  (Intervention required)

**PREPARED BY**  **DATE**
### DATA FORM NO. 3 – CONDITION ASSESSMENT

**STUDY PHASE**

**INSPECTION TYPE**
- [ ] Initial inspection
- [ ] Maintenance cycle

#### PRESENT EXPOSURE CONDITIONS
- [ ] In open air
- [x] Reburied
- [ ] Under an open shelter
- [ ] Walked on
- [x] Under a removable cover
- [ ] Under a closed shelter
- [ ] Parts not excavated or inaccessible

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#### STRUCTURAL DETERIORATION
- (Condition Assessment Map No. 1)
  - [ ] Tessellatum lacunae
  - [ ] Depressions
  - [ ] Cracks
  - [ ] Detachments between mosaic layers
  - [ ] Bulges

#### SURFACE DETERIORATION
- (Condition Assessment Map No. 2)
  - [ ] Detached tesserae
  - [ ] Stains
  - [ ] Deteriorated tesserae
  - [ ] Incrustations
  - [ ] Efflorescence

#### PRESENCE OF BIO-DETERIORATION AGENTS
- (Condition Assessment Map No. 3)
  - [ ] Micro-organisms
  - [ ] Vegetation
  - [ ] Tunnels or entrance holes made by insects and other animals

#### DETERIORATION OF INTERVENTIONS
- (Condition Assessment Map No. 4)
  - [ ] Deteriorated lacunae fills or edging repairs
  - [ ] Re-detached tesserae
  - [ ] Deteriorated support panels
  - [ ] Deteriorated support metal reinforcements
  - [ ] Presence of vegetation
  - [ ] Loss of fill materials
  - [ ] Deteriorated separation membranes

#### DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC
- [ ] Clogged drainage
- [ ] Deteriorated cover or shelter
- [ ] Stabilized walls with new deterioration
- [ ] Damaged access barrier
- [ ] Other: ____________

#### OBSERVATIONS ON THE CONDITION ASSESSMENT

#### GENERAL CONDITION OF THE MOSAIC
- [ ] Good
- [ ] Fair
- [ ] Bad

- [ ] Date recommended for next inspection: ____________
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**INSPECTION TYPE**
- Initial inspection
- Maintenance cycle

**PRESENT EXPOSURE CONDITIONS**
- In open air
- Reburied
- Under an open shelter
- Walked on
- Under a removable cover
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**STRUCTURAL DETERIORATION**
- Tessellatum lacunae
- Cracks
- Bulges

**SURFACE DETERIORATION**
- Detached tesserae
- Deteriorated tesserae
- Deteriorated mortar between tesserae

**PRESENCE OF BIO-DETERIORATION AGENTS**
- Micro-organisms
- Vegetation

**DETERIORATION OF INTERVENTIONS**
- Deteriorated lacunae fills or edging repairs
- Deteriorated mortar between tesserae

**DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC**
- Clogged drainage
- Stabilized walls with new deterioration

**OBSERVATIONS ON THE CONDITION ASSESSMENT**

**GENERAL CONDITION OF THE MOSAIC**
- Good
- Fair
- Bad

- Date recommended for next inspection: ____________
  (No intervention required)
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**INSPECTION TYPE**
- Initial inspection
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- In open air
- Reburied
- Under an open shelter
- Walked on
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- Under a closed shelter
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**STRUCTURAL DETERIORATION**

(Condition Assessment Map No. 1)

- Tessellatum lacunae
- Depressions
- Cracks
- Detachments between mosaic layers
- Bulges

**SURFACE DETERIORATION**

(Condition Assessment Map No. 2)

- Detached tesserae
- Deteriorated tesserae
- Deteriorated mortar between tesserae
- Stains
- Incrustations
- Efflorescence

**PRESENCE OF BIO-DETERIORATION AGENTS**

(Condition Assessment Map No. 3)

- Micro-organisms
- Vegetation
- Tunnels or entrance holes made by insects and other animals

**DETERIORATION OF INTERVENTIONS**

(Condition Assessment Map No. 4)

- Deteriorated lacunae fills or edging repairs
- Deteriorated mortar between tesserae
- Re-detached tesserae
- Deteriorated support panels
- Deteriorated support metal reinforcements

**DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC**

- Clogged drainage
- Deteriorated cover or shelter
- Stabilized walls with new deterioration
- Damaged access barrier
- Other:

**OBSERVATIONS ON THE CONDITION ASSESSMENT**

**GENERAL CONDITION OF THE MOSAIC**

- Good
- Fair
- Bad

Date recommended for next inspection: ____________
(No intervention required)

Date recommended for intervention: ____________
(Intervention required)

**PREPARED BY**

**DATE**

**Tessellatum lacunae**

Part of a mosaic where the tesserae layer has been lost.

Different levels of lacunae in a mosaic
Cracks

Linear fissure visible on the surface of the mosaic that could also continue into the bedding layers.
**DATA FORM NO. 3 – CONDITION ASSESSMENT**

**STUDY PHASE**

| MOSAIC ID | / | / | / |

**INSPECTION TYPE**
- [ ] Initial inspection
- [ ] Maintenance cycle

**PRESENT EXPOSURE CONDITIONS**
- [ ] In open air
- [ ] Reburied
- [ ] Under an open shelter
- [ ] Walked on
- [ ] Under a removable cover
- [ ] Under a closed shelter
- [ ] Parts not excavated or inaccessible

During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.

**STRUCTURAL DETERIORATION**
- [ ] Tesselatum lacunae
- [ ] Depressions
- [ ] Cracks
- [ ] Detachments between mosaic layers

**SURFACE DETERIORATION**
- [ ] Detached tesserae
- [ ] Deteriorated tesserae
- [ ] Deteriorated mortar between tesserae

**PRESENCE OF BIO-DETERIORATION AGENTS**
- [ ] Micro-organisms
- [ ] Vegetation

**DETERIORATION OF INTERVENTIONS**
- [ ] Deteriorated lacunae fills or edging repairs
- [ ] Re-detached tesserae
- [ ] Deteriorated support panels
- [ ] Deteriorated support metal reinforcements

**REBURIAL**
- [ ] Presence of vegetation
- [ ] Loss of fill materials
- [ ] Deteriorated separation membranes

**DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC**
- [ ] Clogged drainage
- [ ] Deteriorated cover or shelter
- [ ] Stabilized walls with new deterioration
- [ ] Damaged access barrier
- [ ] Other: ____________

**OBSERVATIONS ON THE CONDITION ASSESSMENT**

- Bulges

An upward deformation of the mosaic above its original surface level.

**Bulge with detachment**

**Bulge without detachment**
Depressions
A downward deformation of the mosaic below its original surface level.

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**INSPCTION TYPE**
- Initial inspection
- Maintenance cycle

**PRESENE EXPOSURE CONDITIONS**
- In open air
- Reburied
- Under a removable cover
- Under a closed shelter
- Parts not excavated or inaccessible

**STRUCTURAL DETERIORATION**
- (Condition Assessment Map No. 1)
  - Tessellatum lacunae
  - Cracks
  - Bulges

**SURFACE DETERIORATION**
- (Condition Assessment Map No. 2)
  - Detached tesserae
  - Deteriorated tesserae
  - Deteriorated mortar between tesserae

**PRESENE OF BIO-DETERIORATION AGENTS**
- Micro-organisms
- Vegetation

**DETERIORATION OF INTERVENTIONS**
- Deteriorated lacunae fills or edging repairs
- Detempered mortar between tesserae
- Reburial:
  - Presence of vegetation
  - Loss of fill materials
  - Deteriorated separation membranes

**DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC**
- Clogged drainage
- Stabilized walls with new deterioration

**OBSERVATIONS ON THE CONDITION ASSESSMENT**
- General condition of the mosaic:
  - Good
  - Fair
  - Bad
- Date recommended for next inspection:
- Date recommended for intervention:
  - (No intervention required)
  - (Intervention required)

**PREPARED BY**

**DATE**
Detachments between mosaic layers
Separation or void between two layers of the mosaic. A detachment is generally not visible and can be detected by the corresponding hollow sound produced when it is tapped.

---

**Structural Deterioration**
- Tessellatum lacunae
- Cracks
- Bulges

**Surface Deterioration**
- Detached tesserae
- Deteriorated mortar between tesserae
- Stains
- Incrustations
- Efflorescence

**Presence of Bio-Deterioration Agents**
- Micro-organisms
- Vegetation

**Deterioration of Interventions**
- Deteriorated lacunae fills or edging repairs
- Re-detached tesserae
- Deteriorated support panels
- Deteriorated support metal reinforcements
- Presence of vegetation
- Loss of fill materials
- Deteriorated separation membranes

**Deterioration of Interventions Around the Mosaic**
- Clogged drainage
- Deteriorated cover or shelter
- Stabilized walls with new deterioration
- Damaged access barrier
- Other:

---

**General Condition of the Mosaic**
- Good
- Fair
- Bad

Date recommended for next inspection: 

Date recommended for intervention: 

Prepared by: ______________________  Date: ______________________
Detached tesserae
Tessera that is still in its original place but no longer adheres to the bedding layer and therefore moves when lightly touched.

Tessera detached from bedding layer with change of position (center)
**Deteriorated tesserae**

Tesserae that are no longer in good condition. Damaged tesserae can be cracked, eroded, delaminated or show other types of damage or loss.

**Disaggregation of tesserae**

**Delamination of tesserae**
Deteriorated mortar between tesserae
Mortar located in the interstices between the tesserae that is lost or no longer in good condition.
**Stains**

Localized changes in color of the mosaic surface.

![Stained mosaic surface image](image-url)
Incrustations

Mineral crust of variable thickness and area that is often hard and compact, located on the surface of the mosaic.
**Efflorescence**

Generally a white and crystalline substance, which adheres loosely to the mosaic surface, and is powder-like in appearance.
Micro-organisms
Small organisms varying in color and shape, alive or dead, such as algae, lichens, and mosses that adhere to the mosaic surface.

Algae
Lichens
Mosses
Vegetation

Plants such as grasses, weeds, bushes, as well as trees and their associated roots growing under, inside, or on top of the mosaic.
An area of the mosaic where insects or other animals have burrowed.
Deteriorated lacunae fills or edging repairs

Lacuna fill or edging repair between tesserae in poor condition, presenting cracks, erosion or other types of damage.
Deteriorated mortar between tesserae

Mortar fill between tesserae in poor condition, presenting cracks, erosion, or other types of damage.

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During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.

### STRUCTURAL DETERIORATION
- Tessellatum lacunae
- Cracks
- Bulges

### SURFACE DETERIORATION
- Detached tesserae
- Deteriorated mortar between tesserae

### PRESENCE OF BIO-DETERIORATION AGENTS
- Micro-organisms
- Vegetation

### DETERIORATION OF INTERVENTIONS
- Deteriorated lacunae fills or edging repairs
- Re-detached tesserae
- Deteriorated support panels
- Deteriorated support metal reinforcements

### DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC
- Clogged drainage
- Deteriorated cover or shelter
- Stabilized walls with new deterioration
- Damaged access barrier
- Other:

### OBSERVATIONS ON THE CONDITION ASSESSMENT

### GENERAL CONDITION OF THE MOSAIC
- Good
- Fair
- Bad

- Date recommended for next inspection: ____________
  (No intervention required)
- Date recommended for intervention: ____________
  (Intervention required)

PREPARED BY | DATE
-------------|-----------
Re-detached tesserae or detached tesserae of a lifted and re-laid mosaic

Tesserae already reset during a previous intervention that are no longer adhered, or detached tesserae from a section of the mosaic that has been lifted and re-laid on a new support.
Deteriorated support panels

Deformed support panel: Modern support panel of a re-laid mosaic whose shape has changed, part of its surface being located above or below its original level.
Deteriorated support metal reinforcements
structural reinforcement of a support of a re-laid mosaic that is in poor condition.

### DATA FORM NO. 3 – CONDITION ASSESSMENT

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During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.

### STRUCTURAL DETERIORATION

- Tessellatum lacunae
- Cracks
- Bulges

### SURFACE DETERIORATION

- Detached tesserae
- Deteriorated tesserae
- Deteriorated mortar between tesserae

### PRESENCE OF BIO-DETERIORATION AGENTS

- Micro-organisms
- Vegetation

### DETERIORATION OF INTERVENTIONS

- Deteriorated lacunae fills or edging repairs
- Deteriorated mortar between tesserae

### DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC

- Clogged drainage
- Stabilized walls with new deterioration

### OBSERVATIONS ON THE CONDITION ASSESSMENT

GENERAL CONDITION OF THE MOSAIC

- Good
- Fair
- Bad

Date recommended for next inspection: _________________
(No intervention required)

Date recommended for intervention: _________________
(Intervention required)

PREPARED BY: _________________
DATE: _________________
### DATA FORM NO. 3 – CONDITION ASSESSMENT

**STUDY PHASE**

| MOASAC ID | / | / | / |

**INSPECTION TYPE**
- [ ] Initial inspection
- [ ] Maintenance cycle

**PRESENT EXPOSURE CONDITIONS**
- [ ] In open air
- [ ] Reburied
- [ ] Under an open shelter
- [ ] Under a removable cover
- [ ] Under a closed shelter
- [ ] Walked on
- [ ] Parts not excavated or inaccessible

During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.

### STRUCTURAL DETERIORATION
(Condition Assessment Map No. 1)
- [ ] Tessellatum lacunae
- [ ] Depressions
- [ ] Cracks
- [ ] Detachments between mosaic layers
- [ ] Bulges

### SURFACE DETERIORATION
(Condition Assessment Map No. 2)
- [ ] Detached tesserae
- [ ] Stains
- [ ] Incrustations
- [ ] Efflorescence
- [ ] Deteriorated mortar between tesserae

### PRESENCE OF BIO-DETERIORATION AGENTS
(Condition Assessment Map No. 3)
- [ ] Micro-organisms
- [ ] Vegetation
- [ ] Tunnels or entrance holes made by insects and other animals

### DETERIORATION OF INTERVENTIONS
(Condition Assessment Map No. 4)
- [ ] Deteriorated lacunae fills or edging repairs
- [ ] Re-detached tesserae
- [ ] Deteriorated support panels
- [ ] Deteriorated support metal reinforcements
- [ ] Deteriorated mortar between tesserae

### DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC
- [ ] Clogged drainage
- [ ] Deteriorated cover or shelter
- [ ] Stabilized walls with new deterioration
- [ ] Damaged access barrier
- [ ] Other:

### OBSERVATIONS ON THE CONDITION ASSESSMENT

### GENERAL CONDITION OF THE MOSAIC
- [ ] Good
- [ ] Fair
- [ ] Bad

- [ ] Date recommended for next inspection: ____________
  (No intervention required)
- [ ] Date recommended for intervention: ____________
  (Intervention required)

**PREPARED BY**

**DATE**

---

**Presence of vegetation and loss of fill materials**


MOSAIKON Technician Training for the Maintenance of Mosaics – Getty Conservation Institute, 2020 © J. Paul Getty Trust
**DATA FORM NO. 3 – CONDITION ASSESSMENT**

**STUDY PHASE**

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During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.

### STRUCTURAL DETERIORATION

(Condition Assessment Map No. 1)

- Tessellatum lacunae
- Cracks
- Bulges
- Depressions
- Detachments between mosaic layers

### SURFACE DETERIORATION

(Condition Assessment Map No. 2)

- Detached tesserae
- Cracked tesserae
- Deteriorated mortar between tesserae
- Stains
- Incrustations
- Efflorescence

### PRESENCE OF BIO-DETERIORATION AGENTS

(Condition Assessment Map No. 3)

- Micro-organisms
- Vegetation
- Tunnels or entrance holes made by insects and other animals

### DETERIORATION OF INTERVENTIONS

(Condition Assessment Map No. 4)

- Deteriorated lacunae fills or edging repairs
- Deteriorated mortar between tesserae
- Re-detached tesserae
- Deteriorated support panels
- Deteriorated support metal reinforcements

**Reburial:**

- Presence of vegetation
- Loss of fill materials
- Deteriorated separation membranes

### DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC

- Clogged drainage
- Deteriorated cover or shelter
- Stabilized walls with new deterioration
- Damaged access barrier
- Other: __________

### OBSERVATIONS ON THE CONDITION ASSESSMENT

**GENERAL CONDITION OF THE MOSAIC**

- Good
- Fair
- Bad

- Date recommended for next inspection: __________
  (No intervention required)
- Date recommended for intervention: __________
  (Intervention required)

**PREPARED BY**

**DATE**

---

Deteriorated separation membranes
# DATA FORM NO. 3 – CONDITION ASSESSMENT

## STUDY PHASE

| MOSAIC ID | / | / | / |

## INSPECTION TYPE
- Initial inspection
- Maintenance cycle

## PRESENT EXPOSURE CONDITIONS
- In open air
- Reburied
- Under an open shelter
- Under a removable cover
- Under a closed shelter
- Parts not excavated or inaccessible

During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.

### STRUCTURAL DETERIORATION
- Tessellatum lacunae
- Cracks
- Bulges

### SURFACE DETERIORATION
- Detached tesserae
- Deteriorated tesserae
- Deteriorated mortar between tesserae
- Stains
- Incrustations
- Efflorescence

### PRESENCE OF BIO-DETERIORATION AGENTS
- Micro-organisms
- Vegetation

### DETERIORATION OF INTERVENTIONS
- Deteriorated lacunae fills or edging repairs
- Deteriorated mortar between tesserae
- Re-detached tesserae
- Deteriorated support panels
- Deteriorated support metal reinforcements
- Presence of vegetation
- Loss of fill materials
- Deteriorated separation membranes

### DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC
- Clogged drainage
- Deteriorated cover or shelter
- Stabilized walls with new deterioration
- Damaged access barrier
- Other: __________

## OBSERVATIONS ON THE CONDITION ASSESSMENT

## GENERAL CONDITION OF THE MOSAIC
- Good
- Fair
- Bad

- Date recommended for next inspection: __________
  (No intervention required)
- Date recommended for intervention: __________
  (Intervention required)

## PREPARED BY          DATE
DATA FORM NO. 3 – CONDITION ASSESSMENT

STUDY PHASE

MOSAIC ID ______ / ______ / ______

INSPECTION TYPE
- Initial inspection
- Maintenance cycle

PRESENT EXPOSURE CONDITIONS
- In open air
- Reburied
- Walked on
- Under a removable cover
- Under a closed shelter
- Parts not excavated or inaccessible

Present exposure conditions are:
- In open air
- Reburied
- Under an open shelter
- Under a removable cover
- Under a closed shelter
- Parts not excavated or inaccessible

During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.

STRUCTURAL DETERIORATION
- Tessellatum lacunae
- Cracks
- Bulges

SURFACE DETERIORATION
- Detached tesserae
- Deteriorated mortar between tesserae

PRESENCE OF BIO-DETERIORATION AGENTS
- Micro-organisms
- Vegetation

DETERIORATION OF INTERVENTIONS
- Deteriorated lacunae fills or edging repairs
- Deteriorated mortar between tesserae

Reburial:
- Presence of vegetation
- Loss of fill materials
- Deteriorated separation membranes

DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC
- Clogged drainage
- Deteriorated cover or shelter
- Stabilized walls with new deterioration
- Damaged access barrier
- Other: ____________

OBSERVATIONS ON THE CONDITION ASSESSMENT

GENERAL CONDITION OF THE MOSAIC
- Good
- Fair
- Bad

Date recommended for next inspection: ____________
(No intervention required)
Date recommended for intervention: ____________
(Intervention required)

PREPARED BY ____________ DATE ____________

Stabilized walls with new deterioration
## DATA FORM NO. 3 – CONDITION ASSESSMENT

### STUDY PHASE

**MOSAIC ID**

### INSPECTION TYPE

- Initial inspection
- Maintenance cycle

### PRESENT EXPOSURE CONDITIONS

- In open air
- Reburied
- Under an open shelter
- Parts not excavated or inaccessible
- Under a removable cover
- Under a closed shelter

*During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.*

### STRUCTURAL DETERIORATION

- Tessellatum lacunae
- Depressions
- Cracks
- Bulges
- Detachments between mosaic layers

### SURFACE DETERIORATION

- Detached tesserae
- Stains
- Incrustations
- Efflorescence
- Deteriorated mortar between tesserae

### PRESENCE OF BIO-DETERIORATION AGENTS

- Micro-organisms
- Vegetation

### DETERIORATION OF INTERVENTIONS

- Deteriorated lacunae fills or edging repairs
- Re-detached tesserae
- Deteriorated support panels
- Deteriorated support metal reinforcements

### DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC

- Clogged drainage
- Deteriorated cover or shelter
- Stabilized walls with new deterioration

### OBSERVATIONS ON THE CONDITION ASSESSMENT

**GENERAL CONDITION OF THE MOSAIC**

- Good
- Fair
- Bad

- Date recommended for next inspection: ________
  - (No intervention required)

- Date recommended for intervention: ________
  - (Intervention required)

**PREPARED BY**

**DATE**

---

Deteriorated cover or shelter
### DATA FORM NO. 3 – CONDITION ASSESSMENT

#### STUDY PHASE

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#### PRESENT EXPOSURE CONDITIONS

- In open air
- Reburied
- Under an open shelter
- Walked on
- Under a removable cover
- Under a closed shelter
- Parts not excavated or inaccessible

*During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.*

### STRUCTURAL DETERIORATION

*Condition Assessment Map No. 1*

- Tessellatum lacunae
- Depressions
- Cracks
- Bulges
- Detachments between mosaic layers
- Incrustations
- Efflorescence

### SURFACE DETERIORATION

*Condition Assessment Map No. 2*

- Detached tesserae
- Stains
- Deteriorated mortar between tesserae
- Incrustations
- Deteriorated mortar between tesserae
- Efflorescence

### PRESENCE OF BIO-DETERIORATION AGENTS

*Condition Assessment Map No. 3*

- Micro-organisms
- Vegetation
- Tunnels or entrance holes made by insects and other animals

### DETERIORATION OF INTERVENTIONS

*Condition Assessment Map No. 4*

- Deteriorated lacunae fills or edging repairs
- Re-detached tesserae
- Deteriorated support panels
- Deteriorated support metal reinforcements

### DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC

- Clogged drainage
- Deteriorated cover or shelter
- Damaged access barrier
- Other: __________

### OBSERVATIONS ON THE CONDITION ASSESSMENT

#### GENERAL CONDITION OF THE MOSAIC

- Good
- Fair
- Bad

- Date recommended for next inspection: __________
  *(No intervention required)*
- Date recommended for intervention: __________
  *(Intervention required)*

#### PREPARED BY

Date

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*Damaged access barrier*


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**STUDY PHASE**

**INSPECTION TYPE**
- Initial inspection
- Maintenance cycle

**PRESENT EXPOSURE CONDITIONS**
- In open air
- Reburied
- Under an open shelter
- Walked on
- Under a removable cover
- Under a closed shelter
- Parts not excavated or inaccessible

**PRESENT EXPOSURE CONDITIONS**

During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.

**STRUCTURAL DETERIORATION**
- Tessellatum lacunae
- Cracks
- Bulges

**SURFACE DETERIORATION**
- Detached tesserae
- Deteriorated tesserae
- Deteriorated mortar between tesserae

**PRESENCE OF BIO-DETERIORATION AGENTS**
- Micro-organisms
- Vegetation

**DETERIORATION OF INTERVENTIONS**
- Deteriorated lacunae fills or edging repairs
- Reburial
- Deteriorated mortar between tesserae

**DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC**
- Clogged drainage
- Stabilized walls with new deterioration
- Damaged access barrier

**DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC**
- Deteriorated cover or shelter
- Deteriorated support panels
- Deteriorated support metal reinforcements

**GENERAL CONDITION OF THE MOSAIC**
- Good
- Fair
- Bad

**OBSERVATIONS ON THE CONDITION ASSESSMENT**

**DATE**

---

*Damaged footbridge*

**DATA FORM NO. 3 – CONDITION ASSESSMENT**

**GENERAL CONDITION OF THE MOSAIC**

- Good
- Fair
- Bad

- Date recommended for next inspection: [__________________________]
- Date recommended for intervention: [__________________________]

**STUDY PHASE**

**INSPECTION TYPE**

- Initial inspection
- Maintenance cycle

**PRESENT EXPOSURE CONDITIONS**

- In open air
- Reburied
- Under an open shelter
- Walked on
- Under a removable cover
- Under a closed shelter
- Parts not excavated or inaccessible

**PRESENCE OF SURFACE DETERIORATION**

- Deteriorated mortar between tesserae
- Deteriorated tesserae
- Bulges
- Cracks
- Vegetation
- Micro-organisms
- Clogged drainage
- Edging repairs
- Parts not excavated or inaccessible

**PRESENCE OF STRUCTURAL DETERIORATION**

- Tesselatum lacunae
- Cracks
- Bulges

**PRESENCE OF BIO-DETERIORATION AGENTS**

- Micro-organisms
- Vegetation

**DETERIORATION OF INTERVENTIONS**

- Deteriorated lacunae fills or edging repairs
- Re-detached tesserae
- Deteriorated support panels
- Deteriorated support metal reinforcements
- Presence of vegetation
- Loss of fill materials
- Deteriorated separation membranes

**DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC**

- Clogged drainage
- Deteriorated cover or shelter
- Stabilized walls with new deterioration
- Damaged access barrier
- Other: [__________________________]

**INSPECTION TYPE**

- [ ] Initial inspection
- [ ] Maintenance cycle

**PRESENT EXPOSURE CONDITIONS**

- [ ] In open air
- [ ] Reburied
- [ ] Under an open shelter
- [ ] Walked on
- [ ] Under a removable cover
- [ ] Under a closed shelter
- [ ] Parts not excavated or inaccessible

**PRESENCE OF SURFACE DETERIORATION**

- [ ] Deteriorated mortar between tesserae
- [ ] Deteriorated tesserae
- [ ] Bulges
- [ ] Cracks
- [ ] Vegetation
- [ ] Micro-organisms
- [ ] Clogged drainage
- [ ] Edging repairs
- [ ] Parts not excavated or inaccessible

**PRESENCE OF STRUCTURAL DETERIORATION**

- [ ] Tesselatum lacunae
- [ ] Cracks
- [ ] Bulges

**PRESENCE OF BIO-DETERIORATION AGENTS**

- [ ] Micro-organisms
- [ ] Vegetation

**DETERIORATION OF INTERVENTIONS**

- [ ] Deteriorated lacunae fills or edging repairs
- [ ] Re-detached tesserae
- [ ] Deteriorated support panels
- [ ] Deteriorated support metal reinforcements
- [ ] Presence of vegetation
- [ ] Loss of fill materials
- [ ] Deteriorated separation membranes

**DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC**

- [ ] Clogged drainage
- [ ] Deteriorated cover or shelter
- [ ] Stabilized walls with new deterioration
- [ ] Damaged access barrier
- [ ] Other: [__________________________]

**OBSERVATIONS ON THE CONDITION ASSESSMENT**

*Micro-organisms are concentrated in areas of the mosaic where there is more shade.*

*Areas of detachment are located near the surrounding walls.*
DATA FORM NO. 3 – CONDITION ASSESSMENT

<table>
<thead>
<tr>
<th>STUDY PHASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOSAIC ID</td>
</tr>
</tbody>
</table>

| INSPECTION TYPE | Initial inspection | Maintenance cycle |

<table>
<thead>
<tr>
<th>PRESENT EXPOSURE CONDITIONS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>In open air</td>
<td>Reburied</td>
</tr>
<tr>
<td>Walked on</td>
<td>Under a removable cover</td>
</tr>
<tr>
<td>Parts not excavated or inaccessible</td>
<td>Under a closed shelter</td>
</tr>
</tbody>
</table>

*During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.*

**STRUCTURAL DETERIORATION**
- Tessellatum lacunae
- Cracks
- Bulges

**SURFACE DETERIORATION**
- Detached tesserae
- Deteriorated tesserae
- Deteriorated mortar between tesserae

**PRESENCE OF BIO-DETERIORATION AGENTS**
- Micro-organisms
- Vegetation

**DETERIORATION OF INTERVENTIONS**
- Deteriorated lacunae fills or edging repairs
- Deteriorated mortar between tesserae
- Reburial: Presence of vegetation
- Loss of fill materials
- Deteriorated separation membranes

**DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC**
- Clogged drainage
- Deteriorated cover or shelter
- Stabilized walls with new deterioration
- Damaged access barrier
- Other: |

**OBSERVATIONS ON THE CONDITION ASSESSMENT**

**GENERAL CONDITION OF THE MOSAIC**
- Good
- Fair
- Bad

*Date recommended for next inspection: Within 12 months
*No intervention required

*Date recommended for intervention: ____________
*Intervention required*
**DATA FORM NO. 3 – CONDITION ASSESSMENT**

**STUDY PHASE**

| MOSAIC ID | / | / | / |

**INSPECTION TYPE**

- Initial inspection
- Maintenance cycle

**PRESENT EXPOSURE CONDITIONS**

- In open air
- Reburied
- Under a removable cover
- Walked on
- Under a closed shelter
- Parts not excavated or inaccessible

During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.

**STRUCTURAL DETERIORATION**

(Condition Assessment Map No. 1)

- Tessellatum lacunae
- Cracks
- Bulges

**SURFACE DETERIORATION**

(Condition Assessment Map No. 2)

- Detached tesserae
- Deteriorated tesserae
- Deteriorated mortar between tesserae
- Depressions
- Detachments between mosaic layers
- Stains
- Incrustations
- Efflorescence

**PRESENCE OF BIO-DETERIORATION AGENTS**

(Condition Assessment Map No. 3)

- Micro-organisms
- Vegetation
- Tunnels or entrance holes made by insects and other animals

**DETERIORATION OF INTERVENTIONS**

(Condition Assessment Map No. 4)

- Deteriorated lacunae fills or edging repairs
- Re-detached tesserae
- Deteriorated support panels
- Deteriorated support metal reinforcements
- Deteriorated cover or shelter
- Damaged access barrier
- Other: __________________________

**DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC**

- Clogged drainage
- Deteriorated cover or shelter
- Stabilized walls with new deterioration
- Damaged access barrier
- Other: __________________________

**OBSERVATIONS ON THE CONDITION ASSESSMENT**

**GENERAL CONDITION OF THE MOSAIC**

- Good
- Fair
- Bad

- Date recommended for next inspection: ____________
  - (No intervention required)
- Date recommended for intervention: **Within 2 months**
  - (Intervention required)
**DATA FORM NO. 3 – CONDITION ASSESSMENT**

**STUDY PHASE**

| MOSAIC ID | / | / | / |

**INSPECTION TYPE**
- Initial inspection
- Maintenance cycle

**PRESENT EXPOSURE CONDITIONS**
- In open air
- Under an open shelter
- Reburied
- Under a removable cover
- Parts not excavated or inaccessible
- Under a closed shelter

During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.

**STRUCTURAL DETERIORATION**
(Condition Assessment Map No. 1)
- Tessellatum lacunae
- Cracks
- Bulges
- Depressions
- Detachments between mosaic layers

**SURFACE DETERIORATION**
(Condition Assessment Map No. 2)
- Detached tesserae
- Deteriorated tesserae
- Deteriorated mortar between tesserae
- Stains
- Incrustations
- Efflorescence

**PRESENCE OF BIO-DETERIORATION AGENTS**
- Micro-organisms
- Vegetation

**DETERIORATION OF INTERVENTIONS**
(Condition Assessment Map No. 3)
- Deteriorated lacunae fills or edging repairs
- Re-detached tesserae
- Deteriorated support panels
- Deteriorated support metal reinforcements

**DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC**
- Clogged drainage
- Damaged access barrier
- Stabilized walls with new deterioration
- Deteriorated separation membranes

**DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC**
- Presence of vegetation
- Loss of fill materials
- Other:

**OBSERVATIONS ON THE CONDITION ASSESSMENT**

**GENERAL CONDITION OF THE MOSAIC**
- Good
- Fair
- Bad

- Date recommended for next inspection: ____________
  (No intervention required)
- Date recommended for intervention: **Within 1 month (urgent)**
  (Intervention required)

**PREPARED BY**

**DATE**

---

Ermanno Carbonara 2011 © J. Paul Getty Trust
# DATA FORM NO. 3 – CONDITION ASSESSMENT

## STUDY PHASE

**MOSAIC ID:**

### INSPECTION TYPE
- [ ] Initial inspection
- [ ] Maintenance cycle

### PRESENT EXPOSURE CONDITIONS

- [ ] In open air
- [ ] Reburied
- [ ] Under an open shelter
- [ ] Walked on
- [ ] Under a removable cover
- [ ] Under a closed shelter
- [ ] Parts not excavated or inaccessible

*During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.*

### STRUCTURAL DETERIORATION

*Condition Assessment Map No. 1*

- [ ] Tessellatum lacunae
- [ ] Depressions
- [ ] Cracks
- [ ] Detachments between mosaic layers
- [ ] Bulges
- [ ] Stains
- [ ] Incrustations
- [ ] Efflorescence

### SURFACE DETERIORATION

*Condition Assessment Map No. 2*

- [ ] Detached tesserae
- [ ] Deteriorated tesserae
- [ ] Deteriorated mortar between tesserae
- [ ] Tunnels or entrance holes made by insects and other animals

### PRESENCE OF BIO-DETERIORATION AGENTS

*Condition Assessment Map No. 3*

- [ ] Micro-organisms
- [ ] Vegetation
- [ ] Tunnels or entrance holes made by insects and other animals

### DETERIORATION OF INTERVENTIONS

*Condition Assessment Map No. 4*

- [ ] Deteriorated lacunae fills or edging repairs
- [ ] Re-detached tesserae
- [ ] Deteriorated support panels
- [ ] Deteriorated support metal reinforcements
- [ ] Presence of vegetation
- [ ] Loss of fill materials
- [ ] Deteriorated separation membranes

### DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC

- [ ] Clogged drainage
- [ ] Deteriorated cover or shelter
- [ ] Stabilized walls with new deterioration
- [ ] Damaged access barrier
- [ ] Other: 

### OBSERVATIONS ON THE CONDITION ASSESSMENT

**GENERAL CONDITION OF THE MOSAIC**

- [ ] Good
- [ ] Fair
- [ ] Bad

- [ ] Date recommended for next inspection: 
  - (No intervention required)
- [ ] Date recommended for intervention: 
  - (Intervention required)

---

**PREPARED BY**

**DATE**
DATA FORM NO. 3 – CONDITION ASSESSMENT
STUDY PHASE

MOSAIC ID

INSPECTION TYPE
☐ Initial inspection  ☐ Maintenance cycle

PRESENT EXPOSURE CONDITIONS
☐ In open air  ☐ Reburied  ☐ Under an open shelter
☐ Walked on  ☐ Under a removable cover  ☐ Under a closed shelter
☐ Parts not excavated or inaccessible

During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.

STRUCTURAL DETERIORATION (Condition Assessment Map No. 1)
☐ Tessellatum lacunae  ☐ Depressions  ☐ Detachments between mosaic layers
☐ Cracks  ☐ Bulges

Surface Deterioration (Condition Assessment Map No. 2)
☐ Detached tesserae  ☐ Stains  ☐ Incrustations
☐ Deteriorated tesserae  ☐ Efflorescence
☐ Deteriorated mortar between tesserae

Presence of Bio-Deterioration Agents (Condition Assessment Map No. 3)
☐ Micro-organisms  ☐ Tunnels or entrance holes made by insects and other animals
☐ Vegetation

Deterioration of Interventions (Condition Assessment Map No. 4)
☐ Deteriorated lacunae fills or edging repairs  ☐ Re-detached tesserae  ☐ Deteriorated support panels
☐ Deteriorated mortar between tesserae  ☐ Deteriorated support metal reinforcements

Reburial:
☐ Presence of vegetation  ☐ Loss of fill materials  ☐ Deteriorated separation membranes

Deterioration of Interventions Around the Mosaic
☐ Clogged drainage  ☐ Deteriorated cover or shelter
☐ Stabilized walls with new deterioration  ☐ Damaged access barrier
☐ Other: ______________________

Observations on the Condition Assessment

General Condition of the Mosaic
☐ Good  ☐ Fair  ☐ Bad

☐ Date recommended for next inspection: __________ (No intervention required)
☐ Date recommended for intervention: __________ (Intervention required)

Prepared By: ______________________  Date: __________
DATA FORM NO. 3 – CONDITION ASSESSMENT

STUDY PHASE

MOASID ID __________ ______/____/____

INSPECTION TYPE
☐ Initial inspection  ☐ Maintenance cycle

PRESENT EXPOSURE CONDITIONS
☐ In open air  ☐ Reburied  ☐ Under an open shelter
☐ Walked on  ☐ Under a removable cover  ☐ Under a closed shelter
☐ Parts not excavated or inaccessible

During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.

STRUCTURAL DETERIORATION  (Condition Assessment Map No. 1)
☐ Tessellatum lacunae
☐ Depressions
☐ Cracks
☐ Bulges

SURFACE DETERIORATION  (Condition Assessment Map No. 2)
☐ Detached tesserae
☐ Deteriorated tesserae
☐ Detached mortar between tesserae
☐ Deteriorated mortar between tesserae

PRESENCE OF BIO-DETERIORATION AGENTS  (Condition Assessment Map No. 3)
☐ Micro-organisms
☐ Vegetation
☐ Tunnels or entrance holes made by insects and other animals

DETERIORATION OF INTERVENTIONS  (Condition Assessment Map No. 4)
☐ Deteriorated lacunae fills or edging repairs
☐ Re-detached tesserae
☐ Deteriorated support panels
☐ Deteriorated mortar between tesserae
☐ Deteriorated support metal reinforcements

Reburial:
☐ Presence of vegetation
☐ Loss of fill materials
☐ Deteriorated separation membranes

DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC
☐ Clogged drainage
☐ Deteriorated cover or shelter
☐ Stabilized walls with new deterioration
☐ Damaged access barrier
☐ Other: ____________________

OBSERVATIONS ON THE CONDITION ASSESSMENT

GENERAL CONDITION OF THE MOSAIC
☐ Good  ☐ Fair  ☐ Bad

☐ Date recommended for next inspection: ________________
(No intervention required)

☐ Date recommended for intervention: ________________
(Intervention required)

PREPARED BY

DATE
DATA FORM NO. 3 – CONDITION ASSESSMENT

STUDY PHASE

MOSAIC ID ______ / ______ / ______ /

INSPECTION TYPE
☐ Initial inspection
☐ Maintenance cycle

PRESENT EXPOSURE CONDITIONS
☐ In open air
☐ Reburied
☐ Under an open shelter
☐ Walked on
☐ Under a removable cover
☐ Under a closed shelter
☐ Parts not excavated or inaccessible

During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.

STRUCTURAL DETERIORATION

Tessellatum lacunae
☐ Depressions
☐ Detachments between mosaic layers

Cracks
☐ Bulges

SURFACE DETERIORATION

Detached tesserae
☐ Stains
☐ Incrustations

Deteriorated mortar between tesserae
☐ Efflorescence

PRESENCE OF BIO-DETERIORATION AGENTS

Micro-organisms
☐ Tunnels or entrance holes made by insects and other animals

Vegetation

DETERIORATION OF INTERVENTIONS

Deteriorated lacunae fills or edging repairs
☐ Re-detached tesserae
☐ Deteriorated support panels

Deteriorated mortar between tesserae
☐ Deteriorated support metal reinforcements

Reburial:
☐ Presence of vegetation
☐ Loss of fill materials
☐ Deteriorated separation membranes

DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC

Clogged drainage
☐ Deteriorated cover or shelter

Stabilized walls with new deterioration
☐ Damaged access barrier
☐ Other: __________________

OBSERVATIONS ON THE CONDITION ASSESSMENT

GENERAL CONDITION OF THE MOSAIC

☐ Good
☐ Fair
☐ Bad

☐ Date recommended for next inspection: ____________
(No intervention required)

☐ Date recommended for intervention: ____________
(Intervention required)

PREPARED BY

DATE
### Data Form No. 3 – Condition Assessment

**STUDY PHASE**

**MOSAIC ID**

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>Initial inspection</td>
<td>Maintenance cycle</td>
<td></td>
</tr>
</tbody>
</table>

**PRESENT EXPOSURE CONDITIONS**

- In open air
- Reburied
- Under an open shelter
- Walked on
- Under a removable cover
- Under a closed shelter
- Parts not excavated or inaccessible

During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.

### Structural Deterioration

(Condition Assessment Map No. 1)

- Tessellatum lacunae
- Depressions
- Cracks
- Bulges
- Detachments between mosaic layers

### Surface Deterioration

(Condition Assessment Map No. 2)

- Detached tesserae
- Stains
- Incrustations
- Deteriorated mortar between tesserae
- Efflorescence

### Presence of Bio-Deterioration Agents

(Condition Assessment Map No. 3)

- Micro-organisms
- Vegetation
- Tunnels or entrance holes made by insects and other animals

### Deterioration of Interventions

(Condition Assessment Map No. 4)

- Deteriorated lacunae fills or edging repairs
- Re-detached tesserae
- Deteriorated support panels
- Deteriorated mortar between tesserae
- Deteriorated support metal reinforcements

### Reburial:

- Presence of vegetation
- Loss of fill materials
- Deteriorated separation membranes

### Deterioration of Interventions Around the Mosaic

- Clogged drainage
- Deteriorated cover or shelter
- Stabilized walls with new deterioration
- Damaged access barrier
- Other: ____________

### Observations on the Condition Assessment

### General Condition of the Mosaic

- Good
- Fair
- Bad

- Date recommended for next inspection: ____________

(No intervention required)

- Date recommended for intervention: ____________

(Intervention required)

**Prepared by**

**Date**
CASE STUDY

Hergla, Tunisia

House “of the two peristyles”
ID: HE/H2P/25
DATA FORM NO. 3 – CONDITION ASSESSMENT

STUDY PHASE

MOSAIC ID: HEP / H2P / 25 /

INSPECTION TYPE

- Initial inspection
- Maintenance cycle

PRESENT EXPOSURE CONDITIONS

- In open air
- Reburied
- Walked on
- Under a removable cover
- Parts not excavated or inaccessible
- Under an open shelter
- Under a closed shelter

During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.

STRUCTURAL DETERIORATION

- Tessellum lacunae
- Cracks
- Bulges
- Depressions
- Detachments between mosaic layers

SURFACE DETERIORATION

- Detached tesserae
- Deteriorated tesserae
- Deteriorated mortar between tesserae
- Stains
- Incrustations
- Efflorescence

PRESENCE OF BIO-DETERIORATION AGENTS

- Micro-organisms
- Vegetation

DETERIORATION OF INTERVENTIONS

- Deteriorated lacunae fills or edging repairs
- Deteriorated mortar between tesserae
- Reburial:
  - Presence of vegetation
  - Loss of fill materials
  - Deteriorated separation membranes
- Re-detached tesserae
- Deteriorated support panels
- Deteriorated support metal reinforcements

DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC

- Clogged drainage
- Stabilized walls with new deterioration
- Deteriorated cover or shelter
- Damaged access barrier
- Other:

OBSERVATIONS ON THE CONDITION ASSESSMENT

Micro-organisms are concentrated in areas of the mosaic where there is more shade.

Areas of detachment are located near the surrounding walls.

GENERAL CONDITION OF THE MOSAIC

- Good
- Fair
- Bad

Date recommended for next inspection: __________________________
(No intervention required)

Date recommended for intervention: __________________________
(intervention required)

PREPARED BY
Mohammed Said
DATE: June 2005
TITLE: Condition Assessment Map No. 1

DATA FORM NO. 3 – CONDITION ASSESSMENT

STUDY PHASE

MOSAIC ID: HE / H2P / 25

PRESENT EXPOSURE CONDITIONS
- In open air
- Reburied
- Under an open shelter
- Walked on
- Under a removable cover
- Under a closed shelter
- Parts not excavated or inaccessible

During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.

STRUCTURAL DETERIORATION
- Tessellatum lacunae
- Cracks
- Bulges
- Depressions
- Detachments between mosaic layers

SURFACE DETERIORATION
- Detached tesserae
- Deteriorated tesserae
- Deteriorated mortar between tesserae
- Efflorescence

PRESENCE OF BIO-DETERIORATION AGENTS
- Micro-organisms
- Vegetation

DETERIORATION OF INTERVENTIONS
- Deteriorated lacunae fills or edging repairs
- Deteriorated mortar between tesserae
- Re-detached tesserae
- Deteriorated support panels
- Deteriorated support metal reinforcements

DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC
- Clogged drainage
- Deteriorated cover or shelter
- Stabilized walls with new deterioration
- Damaged access barrier
- Other: __________________________

OBSERVATIONS ON THE CONDITION ASSESSMENT
Micro-organisms are concentrated in areas of the mosaic where there is more shade.
Areas of detachment are located near the surrounding walls

GENERAL CONDITION OF THE MOSAIC
- Good
- Fair
- Bad

Date recommended for next inspection: _____________________
(No intervention required)
Date recommended for intervention: _____________________
(Intervention required)

PREPARED BY: Mohamed Said
DATE: June 2005

ID: HE/H2P/25
DATE: June 2005
PREPARED BY: Mohamed Said
DATA FORM NO. 3 – CONDITION ASSESSMENT

MOSAIC ID: HE / H2P / 25 /

INSPECTION TYPE
- Initial inspection
- Maintenance cycle

PRESENT EXPOSURE CONDITIONS
- In open air
- Reburied
- Under an open shelter
- Walked on
- Under a removable cover
- Under a closed shelter
- Parts not excavated or inaccessible

During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.

STRUCTURAL DETERIORATION
- Tessellatum lacunae
- Cracks
- Bulges

SURFACE DETERIORATION
- Detached tesserae
- Deteriorated tesserae
- Deteriorated mortar between tesserae

PRESENCE OF BIO-DETERIORATION AGENTS
- Micro-organisms
- Vegetation

DETERIORATION OF INTERVENTIONS
- Deteriorated lacunae fills or edging repairs
- Re-detached tesserae
- Deteriorated support panels
- Deteriorated support metal reinforcements
- Reburial:
  - Presence of vegetation
  - Loss of fill materials
  - Deteriorated separation membranes

DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC
- Clogged drainage
- Stabilized walls with new deterioration

OBSERVATIONS ON THE CONDITION ASSESSMENT
Micro-organisms are concentrated in areas of the mosaic where there is more shade.
Areas of detachment are located near the surrounding walls.

GENERAL CONDITION OF THE MOSAIC
- Good
- Fair
- Bad

Date recommended for next inspection: June 2005
(No intervention required)
Date recommended for intervention: Within 6 months
(Intervention required)

PREPARED BY: Mohamed Said
DATE: June 2005
TITLE: Condition Assessment Map -3

DATE: June 2005
PREPARED BY: Mohamed Said

ID: HE/H2P/25
BASE MADE ON: June 2005

LEGEND – CONDITION ASSESSMENT MAP NO. 3
PRESENCE OF BIO-DETERIORATION AGENTS

- Micro-organisms
- Vegetation
- Tunnels or entrance holes made by insects and other animals

STRUCTURAL DETERIORATION
- Tessellatum lacunae
- Cracks
- Bulges

SURFACE DETERIORATION
- Detached tesserae
- Deteriorated tesserae
- Deteriorated mortar between tesserae

PRESENCE OF BIO-DETERIORATION AGENTS
- Micro-organisms
- Vegetation

DETERIORATION OF INTERVENTIONS
- Deteriorated lacunae fills or edging repairs
- Deteriorated mortar between tesserae

DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC
- Clogged drainage
- Stabilized walls with new deterioration

OBSERVATIONS ON THE CONDITION ASSESSMENT
Micro-organisms are concentrated in areas of the mosaic where there is more shade.
Areas of detachment are located near the surrounding walls

GENERAL CONDITION OF THE MOSAIC
- Good
- Fair
- Bad

DATE: June 2005
PREPARED BY Mohamed Said
DATA FORM NO. 3 – CONDITION ASSESSMENT

TITLE: Condition Assessment Map - 4
DATE: June 2005
PREPARED BY: Mohamed Said

INSPECTION TYPE
- Initial inspection
- Maintenance cycle

PRESENT EXPOSURE CONDITIONS
- In open air
- Reburied
- Under an open shelter
- Walked on
- Under a removable cover
- Under a closed shelter
- Parts not excavated or inaccessible

During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.

STRUCTURAL DETERIORATION
- Tessellatum lacunae
- Cracks
- Bulges

SURFACE DETERIORATION
- Detached tesserae
- Deteriorated tesserae
- Deteriorated mortar between tesserae
- Stains
- Incrustations
- Efflorescence

PRESENCE OF BIO-DETERIORATION AGENTS
- Micro-organisms
- Vegetation

TUNNELS OR ENTRANCE HOLES MADE BY INSECTS AND OTHER ANIMALS

DETERIORATION OF INTERVENTIONS
- Deteriorated lacunae fills or edging repairs
- Re-detached tesserae
- Deteriorated support panels
- Deterioration of support metal reinforcements

DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC
- Clogged drainage
- Deteriorated cover or shelter
- Stabilized walls with new deterioration

OBSERVATIONS ON THE CONDITION ASSESSMENT

Areas of detachment are located near the surrounding walls

GENERAL CONDITION OF THE MOSAIC
- Good
- Fair
- Bad

PREPARED BY Mohamed Said
DATE June 2005
DATA FORM NO. 3 – CONDITION ASSESSMENT

STUDY PHASE

INSPECTION TYPE

- Initial inspection
- Maintenance cycle

PRESENT EXPOSURE CONDITIONS

- In open air
- Reburied
- Under a removable cover
- Under a closed shelter
- Parts not excavated or inaccessible

During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention.

STRUCTURAL DETERIORATION

(Temperature lacunae)
- Tessellatum lacunae
- Cracks
- Bulges

SURFACE DETERIORATION

(Temperature Assessment Map No. 2)
- Detached tesserae
- Deteriorated tesserae
- Deteriorated mortar between tesserae

PRESENCE OF BIO-DETERIORATION AGENTS

(Temperature Assessment Map No. 3)
- Micro-organisms
- Vegetation

DETERIORATION OF INTERVENTIONS

(Temperature Assessment Map No. 4)
- Deteriorated lacunae fills or edging repairs
- Deteriorated mortar between tesserae

Reburial:
- Presence of vegetation
- Loss of fill materials
- Deteriorated separation membranes

DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC

- Clogged drainage
- Stabilized walls with new deterioration
- Damaged access barrier
- Other: ______________________

OBSERVATIONS ON THE CONDITION ASSESSMENT

Micro-organisms are concentrated in areas of the mosaic where there is more shade. Areas of detachment are located near the surrounding walls.

GENERAL CONDITION OF THE MOSAIC

- Good
- Fair
- Bad

Date recommended for next inspection: ______________________
(No intervention required)

Date recommended for intervention: ______________________
(Intervention required)

PREPARED BY: Mohamed Said
DATE: June 2005
MOSAIKON is a partnership of four institutions: the Getty Conservation Institute, the Getty Foundation, ICCROM, and ICCM. The aims of the project are to strengthen the network of professionals concerned with the conservation, restoration, maintenance, and management of mosaic heritage in the southern and eastern Mediterranean region; provide training to a variety of individuals involved in mosaics conservation and, more generally, with the management of archaeological sites and museums with mosaics; work with national and international bodies to provide a more favorable legislative, regulatory, and economic environment for the conservation of mosaics in the Mediterranean; and promote the dissemination and exchange of information.