

Methodology CHANGES

- Multiple case study research
- Site visits and visual inspection
- Interview key players
- Review general approach MW Noord-Br.
- Analysis:
 - possible improvements
 - Integration in CHANGES

Town hall Oirschot

“Classical” maintenance

- Public function since 1513
- Scheduled maintenance & Funding
- Integration of MW advice



MDCS

Monument Diagnosis and Conservation System



What is MDCS?

MDCS – the Monument Diagnosis and Conservation System – is an interactive support tool for the inventory and evaluation of damage to monumental buildings. During visual inspections MDCS helps to identify the types of materials and the types of damage. Based on the damage types found, hypotheses on possible causes are suggested. On the basis of the final diagnosis, conservation can be planned.



Monument management

MDCS provides support in the management of monuments. Administration of the state of the monument in the course of time is easy. Help in determining damage is provided. Document reports can be shared with e.g. experts or restoration architects. Thus a step forward is taken, from damage registration and repair to preventive conservation.



Consultation of the damage atlas

The damage atlas shows recurrent types of damage to building materials used in a construction. The materials include brick and stone masonry, mortar, pointing mortar, plaster, paint and concrete. Each damage type is identified making use of a unique term and is furnished with a definition and illustrations. The use of this internationally valued terminology guarantees a clear exchange of comparable information between experts.



Inventory of the damage found

Damage to monuments can be documented in a structured way. Pictures, drawings and 3D models can be used to illustrate the damage and outline damaged areas. For each damage type, extent and severity can be indicated. Through repeated inspections in the course of time, the progress of damage can be monitored and results of interventions evaluated.



Causes of damage

MDCS provides a list of possible causes for the damage found. As each damage type can be the result of one or more damaging processes, the diagnosis requires specialized knowledge, analysis of the circumstances and possibly further tests and investigations. The program gives directions on how to obtain this knowledge.

User login

Logout

MDCS / Damage Atlas

This web application is made possible by:

TNO innovation
for life

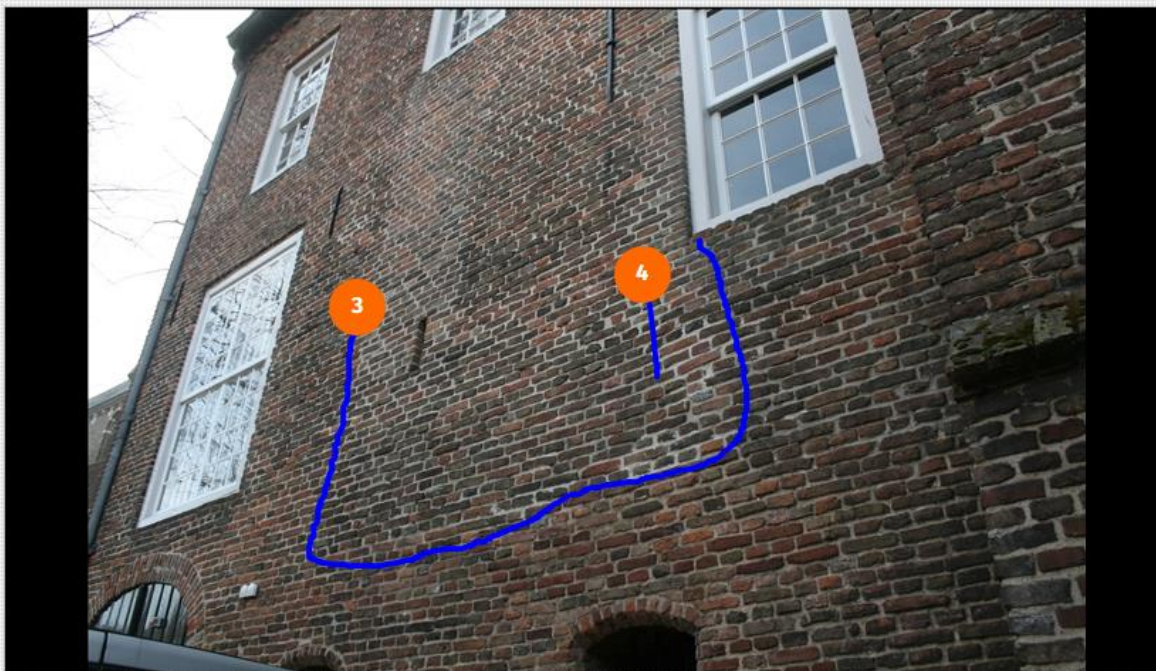
TU Delft

 Rijksdienst voor het Cultureel Erfgoed
Ministerie van Onderwijs, Cultuur en
Wetenschap

Exterior wall, first floor, north facade

Download sight

Draw on the image below to create a damage location.



Save damage location

Dossier

-  Raadhuis (Town hall)
-  CHANGES
-  Brick and pointing east facade
-  Exterior wall, first floor, north facade
-  3 Deformation 1st floor near window
-  4 Cracks in northern wall near deformation
-  Exterior walls former latrine
-  Timber construction attic, prison cell
-  North facade, window ground floor
-  Toilet ground floor
-  Pilory
-  Entrance ground floor

www.monumentenkennis.nl

Interface

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[Frequently asked questions](#)
[Contact](#)
[Wiki](#)

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[Damage locations](#)
[Overview inspections](#)
[Overview damages](#)
[Damage type](#)

Deformation 1st floor near window

3

Element: Wall

Inspection details

20-05-2016

Additional comments

Follow-up measurements (mapping of deformation) onsite (HH)

Declare type of damage

Kind of damage

Structural damage (under construction) OR Brick

Main category of damage

Deformation

Damage type

Bending Bulging Leaning Displacement Deviation in plane

Detail photos

Add here your detail photos to further document the damage.

Add image

Overview location

Save

Dossier

Raadhuiz (Town hall)

CHANGE

Brick and pointing east facade

Exterior wall, first floor, north facade

Deformation 1st floor near window

14-04-2018

20-05-2016

Cracks in northern wall near deformation

Exterior walls former latrine

Timber construction attic, prison cell

North facade, window ground floor

Toilet ground floor

Pilory

Entrance ground floor

MDCS Output

Raadhuis (Town hall) CHANGES, Markt 1, 5688 AJ Oirschot, The Netherlands

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Raadhuis (Town hall) CHANGES

Markt 1
5688 AJ Oirschot
The Netherlands

Background information

Contactperson: Mr. XYZ, Tel 01234565678 E-mail: xyz@server Reason for inspection: In order to carry out preventive maintenance, the owner of the object required regular inspections are carried out. In this report, the damage symptoms which were identified during several visual inspections are documented. Conclusions and advice: From the sequent visual inspections, the following preliminary conclusions can be drawn and following advice for further research given: INHERITAT/LAST History: The former town hall (Dutch: raadhuis) in Oirschot is a listed rijksmonument. The current town hall dates from 1913. The initial set-up was a market hall in the ground floor, hence the structure with vaults. The first and second floor was used as the town hall. In the 18th century, the ...

Building photo





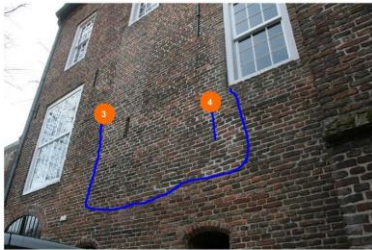
File from MDCS / Monument Diagnosis and Conservation System
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Exterior wall, first floor, north facade



3 Deformation 1st floor near window

Element: Wall 1 inspections

Inspection details

Date	Damage type(s)	Comment
14-05-2016	1	Preliminary visual inspection (inspectors SN, HAH)

4 Cracks in northern wall near deformation

Element: Wall 1 inspections

Inspection details

Date	Damage type(s)	Comment
14-05-2016	1	Preliminary visual inspection (inspectors SN, HAH) The load bearing wall shows damage symptoms which might be related and indicate an underlying structural problem

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2 Historic information pilory


Element: Column

20-05-2016 Desk top research of historic drawings and figures (H&H)


Other » Other » Historic information

Hypothesis:


Additional comments: The pilory of the southern facade is not present in historic pictures. Its age and origin are unknown. The quality differences of the natural stone elements might indicate the date from different periods. In the historic pictures one can also see that the plaster and the pilory were removed during time.



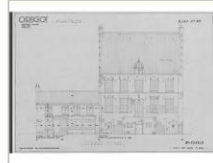
Present day situation



Picture dating from 1928, with plaster, different windows, and no pilory (Source: RCE databank)



Picture dating from 1976 with no plaster and with pilory (Source: RCE databank)



Drawing from 1943 with the pilory (source: RCE databank)

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Former leather factory KVL

‘Modern’ monument & neglected

- Function ceased and vacant since 2002
- Industrial heritage & modern materials
- Provincial project “*Erfgoedfabriek*” (Heritage factory)
 - Revolving funds
 - MW partner for evaluation restoration subsidy



Vision: living – working – city



2016 Creative craftsmanship -Future ?



Maintenance in the future?

