



VINÇOTTE nv

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- Onze gegevens
Verslagnr.: 61217236/01
Contractref. : 100296871/2253986
Contact: ing. Kris Geeroms
- Uw gegevens
Ref.: /
Contact: Paul Hermans

VME RESIDENTIE NEFERTITI

p/a ERA laPlage
Distellaan 34
8434 WESTENDE



**Residentie Nefertiti
Zwaluwenlaan 14
8434 Westende**

**BETONONDERZOEK VAN ENKELE
TERRASSEN AAN DE VOOR- EN
ACHTERGEVEL**

Het verslag mag enkel in zijn geheel worden gekopieerd. Het kopiëren is enkel toegelaten na een voorafgaand akkoord van Vinçotte n.v.
Dit verslag telt 26 bladzijden (zonder bijlagen).

ing. Kris Geeroms
Lead Contract Engineer
Civil Works
Building

Yves Rothheuth
Teamlead
Civil Works
Building

Bijlagen: 1. Fiches; 2. Laboverslag.
Distributie: VME Nefertiti.

VERSLAGNR. : 61217236/01

28 september 2023

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1 DOEL VAN DE OPDRACHT

Op 31 augustus 2023 hebben we een betononderzoek uitgevoerd van enkele terrassen aan de voor- en achtergevel van Residentie Nefertiti, gelegen aan de Zwaluwenlaan 14 in 8434 Westende teneinde de algemene staat van de betonnen elementen te beoordelen, mogelijke schade vast te stellen, de mogelijke oorzaken ervan te bepalen en enkele herstelprincipes voor te stellen indien nodig.

Ons onderzoek behelst een visuele inspectie van de elementen aangevuld met enkele basisproeven.

2 ONDERZOEKSMETHODE

De visuele inspectie en de proeven werden uitgevoerd van op de terrassen waartoe ons toegang werd verleend (App. 101, 201, 302) en van op het gelijkvloers.

De betondekking op de wapening werd bepaald d.m.v. een pachometer (Proceq Profometer).

Er werden 6 betonkernen diameter 50mm ontnomen ter bepaling van het chloridegehalte en het cementgehalte.

Op de geboorde betonkernen werd eveneens de carbonatatie diepte bepaald door het besprenkelen van de kern met fenolftaleïne.

3 DOCUMENTEN

Voor het uitvoeren van onze opdracht hebben we ons o.a. gebaseerd op volgende documenten:

- Technische Voorlichting 231 (WTCB, september 2007): "Herstelling en bescherming van beton";
- Normenreeks NBN EN 1504: "Producten en systemen voor de bescherming en herstelling van betonconstructies. Definities, eisen, kwaliteitsborging en conformiteitsbeoordeling."

4 VASTSTELLINGEN

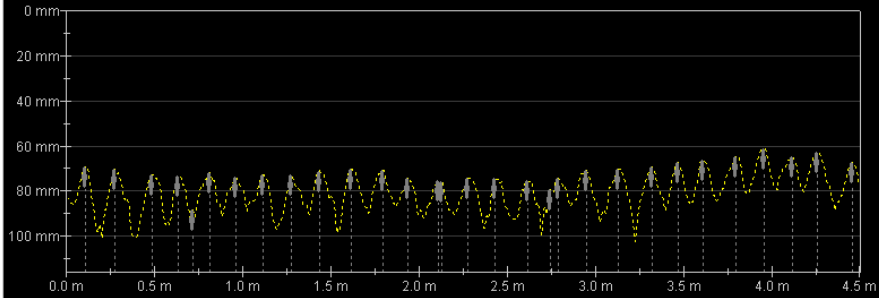
De verschillende vaststellingen zijn weergegeven in de fiches in bijlage 1.

5 PROEFRESULTATEN

5.1 PACHOMETERPROEVEN EN CARBONATATIE

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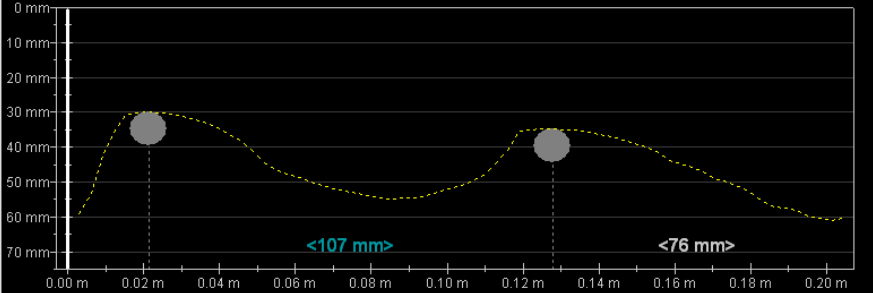
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[-2.456 85.2]	[-0.625 83.5]	Mean (mm)	81.0	Mean (mm)	104																																																																																																																																																																										
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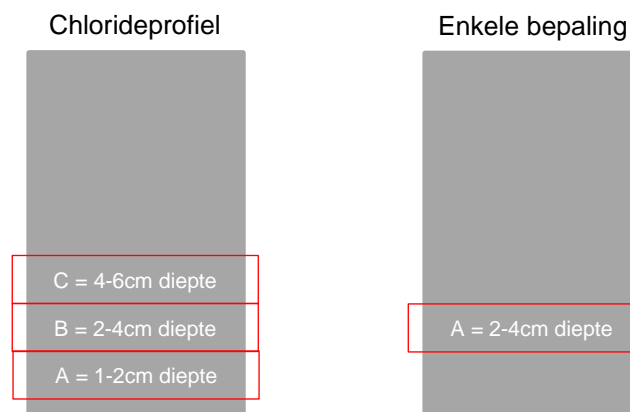
Fiche	Betondekking [mm]								Plaats	Carb. [mm]			
1.19	Name	Date & Time	Mode	Rebars	Lines	Distance	Snapshots	Unit	Gelijkvloers Achtergevel – onderzijde terras app 103	15			
	Res. Nefertiti-012	08/31/2023 1:0...	Single-Line	62	1	9.455 m	0	Metric					
	View: Single-Line Curve: Cover										Gelijkvloers Achtergevel – onderzijde terras app 103	15	
	Snapshots		[Distance(m) Cover(m)		Statistics of Covers [Normal]		Statistics of Rebar Spacing						Standard (None)
	(mm mm mm)		<u>L: 1</u>		No. of Readings	62	No. of Readings	61					
	[-0.088 66.2]		[3.093 72.]		Median (mm)	71.4	Median (mm)	162					
	[0.055 64.1]		[3.242 76.]		Mean (mm)	72.2	Mean (mm)	154					
	[0.131 67.7]		[3.428 73.]		Standard Deviation (mm)	7.2	Standard Deviation (mm)	47					
	[0.277 68.2]		[3.578 70.]		Lowest (mm)	48	Lowest (mm)	40					
	[0.457 72.7]		[3.718 69.]		Highest (mm)	89	Highest (mm)	360					
[0.555 79.3]		[3.901 67.]		Settings									
[0.677 78.1]		[4.077 67.]		Measuring Range									
[0.865 80.3]		[4.214 68.]		Rebar Diameter Ø1 Scan-X (mm)	10								
[1.033 84.9]		[4.263 72.]		Rebar Diameter Ø2 Scan-Y (mm)	10								
[1.201 84.1]		[4.306 74.]		Artificial Intelligence / Neighboring Rebar Correction	<input type="checkbox"/>								
[1.560 88.6]		[4.458 68.]		Cover Calibration	<input type="checkbox"/>								
[1.685 85.5]		[4.620 64.]		Minimum Cover	<input checked="" type="checkbox"/>								
[1.725 85.3]		[4.766 67.]		Minimum Cover Value (mm)	15								
[1.902 83.9]		[4.961 67.]		Maximum Cover	<input type="checkbox"/>								
[2.057 84.3]		[5.147 69.]		Maximum Cover Value (mm)	-								
[2.237 76.3]		[5.318 67.]		Cover Offset	<input type="checkbox"/>								
[2.392 75.7]		[5.488 64.]		Cover Offset Value (mm)	-								
[2.566 72.8]		[5.659 63.]		Cover Calculation	Progressive								
[2.724 71.8]		[5.778 66.]		Align Rebar Positions	-								
				Line Height (cm)	-								
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5.2 BEPALING VAN HET CHLORIDENGELHALTE



Zie ook het laboverslag in bijlage 2.

Proef	Fiche	Plaats	% chloriden t.o.v. betonmassa	% chloriden t.o.v. cementmassa
NEF 1.02A	1.02	App. 201 Achtergevel – onderzijde bovenliggend terras	0,033	0,22
NEF 1.02B			0,034	0,23
NEF 1.02C			0,032	0,21
NEF 1.08A	1.08	App. 201 Voorgevel – bovenzijde terras	0,044	0,29
NEF 1.08B			0,027	0,18
NEF 1.08C			0,028	0,19
NEF 1.11A	1.11	App. 302 Voorgevel – bovenzijde terras	0,057	0,38
NEF 1.11B			0,029	0,19
NEF 1.11C			0,025	0,17
NEF 1.14A	1.14	App. 101 Achtergevel – onderzijde bovenliggend terras	0,021	0,14
NEF 1.19A	1.19	Gelijkvloers Achtergevel – onderzijde terras app 103	0,014	0,09
NEF 1.19B			0,019	0,13
NEF 1.19C			0,013	0,09
NEF 1.23A	1.23	Gelijkvloers Voorgevel – onderzijde terras app 102	0,019	0,13

(°) Het percentage chloriden t.o.v. de cementmassa is bepaald op basis van volgende hypothesen :

- SVM beton [kg/m³] : 2300 ;
- Cementgehalte [kg/m³beton] : 346 (cementgehaltebepalingen: zie verder).

5.3 BEPALING VAN HET CEMENTGEHALTE

Zie ook het laboverslag in bijlage 2.

Proef	Fiche	Plaats	Cementgehalte [kg/m ³]
NEF 1.11	1.11	App. 302 Voorgevel – bovenzijde terras	346

6 ANALYSE EN BESLUITEN

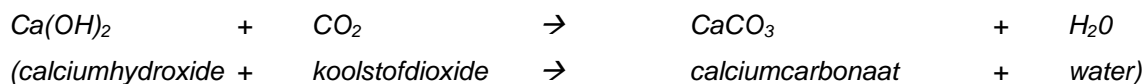
We beoordelen de vaststellingen aan de hand van enkele schadefenomenen.

Carbonatatie

Ter informatie geven we vooraf een beknopte beschrijving van het carbonatatiefenomeen:

Carbonatatie is een veel voorkomende oorzaak van degradatie van betonoppervlakken.

Het koolstofdioxide (CO₂) uit de buitenlucht dringt via de normale openingen van het beton (poriën, scheuren, grindnesten, ...) binnen en reageert er met de vrije kalk (Ca(OH)₂) die steeds aanwezig is in het beton.



Het betonstaal roest niet zolang het door Ca(OH)₂ in een sterk basisch midden wordt gehouden met een pH-waarde van ongeveer 13. Als Ca(OH)₂ omgezet wordt in CaCO₃, daalt de pH tot waarden onder 9.

Zodra het carbonatatiefront de wapening bereikt, daalt de pH-waarde van het beton er rond tot in een basisch neutrale zone en is de alkaliteit van dit beton sterk verzwakt.

De belangrijkste voorwaarde voor roestvorming is aldus aanwezig.

Fenolftaleïne-oplossing is een chemische kleurindicator die paars-roze kleurt als de pH-waarde van het beton meer dan 9 bedraagt. Deze alkaliteit duidt dus op niet-gecarbonateerd beton.

Uit de metingen van de diepte van het carbonatatiefront blijkt dat deze algemeen klein is (0-15mm). De betondekking bedraagt aan de onderzijde van de terrassen en aan de bovenzijde doorgaans meer dan 40mm (en op verschillende plaatsen veel meer). Aangezien de betondekking groot is en de carbonatatediepte zeer beperkt is, wordt er geen algemene voorkomende betonschade ten gevolge van carbonatatie verwacht in het vlak van de terrassen. De terrasranden zijn uiteraard wel gevoeliger aan betonschade, enerzijds door de 3-zijdige indringing van CO₂ en vocht, anderzijds doordat het hier moeilijker is om een grote betondekking aan te houden door de vorm van de wapening. De kroonlijst vertoont zichtbaar uitgebreide betonschade doch deze was niet bereikbaar voor nader onderzoek.

Chloriden

Een tweede mogelijke oorzaak van corrosie van wapening is de aanwezigheid van chloriden in het beton. Ze kunnen tijdens het mengen toegevoegd zijn (als bindingsversneller ter voorkoming van vorstschade, gebruik van zeewater, gebruik van met chloriden verontreinigde granulaten, ...) of van buitenaf in het beton dringen via bijvoorbeeld dooizouten of blootstelling aan zeeklimaat. Chloride-ionen hebben de eigenschap in de gepassiveerde laag rond de wapening door te dringen en daardoor plaatselijk corrosie op te wekken. Deze vorm van corrosie wordt ook putcorrosie of "pitting" genoemd. Dit is een putvormige corrosie die zeer gelokaliseerd is, doch zeer hevig kan zijn en tot breuk van de wapening kan leiden zonder dat hierbij veel corrosieproducten gevormd worden, zodat hier veelal de waarschuwendende werking van afspringende betondekking en/of scheuren achterwege blijft.

De literatuur leert ons dat er geen veilige grens voor de chlorideconcentratie, waaronder geen corrosie optreedt, bestaat. Ieder spoor ervan kan in bepaalde omstandigheden van aanwezigheid van water en zuurstof staalcorrosie geven. Chloriden zijn dus absoluut te weren uit beton, aangezien zij belangrijke schade (putcorrosie) kunnen veroorzaken aan de wapening van het beton. Zoals hiervoor reeds verduidelijkt, is putcorrosie een ernstige en gevaarlijke vorm van corrosie waarbij de waarschuwendende werking van afspringende betondekking en/of scheuren vaak achterwege blijft.

Daarenboven is de reparatie van betonschade, veroorzaakt door chloriden zeer ingrijpend en duur.

Normaliter wordt het corrosiegevaar in functie van het chloridengehalte (ingedrongen chloriden) als volgt geïnterpreteerd:

% Cl ⁻ (ingemengd) t.o.v. de betonmassa	% Cl ⁻ (ingemengd) t.o.v. de cementmassa	% Cl ⁻ (ingedrongen) t.o.v. de betonmassa	% Cl ⁻ (ingedrongen) t.o.v. de cementmassa	Corrosie- gevaar
<0,075	<0,6	<0,05	<0,4	Klein
0,075 – 0,125	0,6 – 1,0	0,05 – 0,125	0,4 – 1,0	Matig
>0,125	>1,0	>0,125	>1,0	Hoog

De evaluatie van de analyse van de stalen t.o.v. bovenvermeld corrosiegevaar geeft volgend resultaat:

Proef	Fiche	Plaats	% chloriden t.o.v. betonmassa	% chloriden t.o.v. cementmassa
NEF 1.02A	1.02	App. 201 Achtergevel – onderzijde bovenliggend terras	0,033	0,22
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NEF 1.23A	1.23	Gelijkvloers Voorgevel – onderzijde terras app 102	0,019	0,13

Het chloridegehalte in het beton blijkt relatief laag te zijn en zeker voor een ligging zo dicht bij de kust. Het risico op wapeningscorrosie ten gevolge van chloriden wordt eerder als klein ingeschat.

Algemene evaluatie

Globaal kunnen we stellen dat er buiten de scheurvorming aan enkele terrasranden en de betonschade aan de kroonlijst geen zichtbare betonschade wordt vastgesteld aan de terrassen van Residentie Nefertiti. De carbonatatie diepte is eerder beperkt waardoor er op korte termijn geen veralgemeende schade door wapeningscorrosie ten gevolge van carbonatatie wordt verwacht. Het is wel aangewezen om de reeds aanwezige schade (die veelal omvangrijker is dan louter de zichtbare schade) op termijn te herstellen. De aanwezigheid van chloriden in het beton is beperkt en vereist in principe geen specifieke maatregelen.

Door het combineren van de metingen van de betondekking aan de bovenzijde en aan de onderzijde van de terrassen aan de achtergevel krijgen we een beeld van de mogelijke opbouw. De dikte van de plaat bedraagt ±15cm. De gemiddelde betondekking op bovenwapening bedraagt ±70mm en die op de onderwapening ±85mm. We gaan dus uit van 1 laag wapening die zich juist boven het midden bevindt.

De mate waarin de corrosie zal optreden hangt ook af van de mate waarin vocht of water(damp) tot bij de wapening kan indringen. In die zin is het van belang dat de terrassen waterdicht zijn. De terrassen zijn voorzien van een waterdichting op het bovenvlak en zijn aan de onderzijde geschilderd. Ondanks de waterdichting vertonen een aantal terrassen aan de onderzijde uitgebreide sporen van infiltraties. Het herstel van de waterdichting is dan ook aangeraden.

Vocht kan ook onder de vorm van waterdamp (luchtvochtigheid) in het beton dringen. Om dit te verhinderen raden we aan om in het kader van renovatie of herstelling het beton te beschermen met een carbonatatie remmende coating om indringen van vocht en CO₂ en het verder indringen van chloriden te verhinderen.

Om een duurzame betonherstelling te bekomen raden we aan om beroep te doen op aannemers die gecertificeerd zijn voor de manuele herstelling van gecarbonateerd beton volgens de normen NBN EN 1504. Het is eveneens aangewezen om de herstellingen uit te voeren met hydraulische herstellmortels die beschikken over een BENOR-certificaat.

De gebruikte producten (herstellmortels, egalisatiemortels, betonbeschermingssystemen, ...) evenals de herstellwijze moeten conform zijn aan de normen NBN EN 1504 (delen 1 tot 10).

Principebeschrijving voor de herstelling van betonschade veroorzaakt door corrosie van de wapening in gecarbonateerd beton

Wanneer betonherstellingen uitgevoerd worden dienen volgende richtlijnen in acht genomen te worden om tot een duurzaam resultaat te komen.

Herstellprincipes klassieke betonschade:

- A. Het afhameren van de oppervlakken teneinde alle hol klinkende plaatsen of beton met slechte mechanische kwaliteit (loszittend, afgebrokkeld, gedesintegreerd...) te kunnen lokaliseren.
- B. Het afbikken van de betonoppervlakken met een luchtdrukhamer totdat men "gezond" en homogeen beton bereikt. In dit opzicht moet worden nagegaan of de kwaliteit van het beton (pH en carbonatatiestaat) van dien aard is dat ze de aanwezige wapeningen kan beschermen. In principe herkent men niet-gecarbonateerde zones aan hun paarse verkleuring als een fenolftaleïne-oplossing op de betreffende zone gespreid wordt. Op de werf dient dan ook steeds een verstuiver gevuld met een fenolftaleïne-oplossing aanwezig te zijn.
Het beton dient zodanig weggekapt te worden dat abrupte overgangen in dikte van de aan te brengen laag herstellmortel worden vermeden.
- C. Het rondom vrijhakken van het gecorrodeerde wapeningsstaal (ook de achterzijde en dit tot in het niet-gecarbonateerde beton, met tussen de achterkant van de staaf en het beton minimum 1 cm ruimte) tot 5 cm voorbij de roestgrens.
De randen van de te herstellen zones dienen haaks ingezaagd of ingehakt te worden tot tenminste 10mm diepte om te voorkomen dat er op "nul" geëindigd wordt.
- D. De vrijgekomen wapeningen worden degelijk ontroest tot reinigingsgraad Sa 2 1/2 (blinkend gestraald). Aan het einde van deze operatie dienen de niet-hechtende deeltjes zoals stof, kruimelig roest e.d. steeds verwijderd te worden. Het schoonblazen van het gereinigde oppervlak gebeurt met olievrije perslucht. Indien nodig dienen aangetaste wapeningsstaven vervangen te worden of dient er wapening bijgelegd te worden.

- E. Het behandelen van al het vrijgekomen en droog wapeningsstaal met een roestwerend product. Het roestwerend product dient goed aan te sluiten op het omliggende beton en dient compatibel te zijn met het reparatiesysteem.
- F. Afhankelijk van het gebruikte reparatiesysteem, het voorbevochtigen van de te herstellen oppervlakken of het behandelen met een hechtprimer. In het geval van voorbevochtiging moet het te herstellen oppervlak vochtig zijn, zonder evenwel glanzend nat te zijn (geen waterfilm aan het oppervlak). In het geval van behandeling met een primer, dient deze aangepast te zijn aan de drager en de droogheid ervan.
- G. Het repareren met een hydraulische betonherstelmortel die beschikt over het BENOR-merk. De reparatie wordt goed aangedrukt, zodat er geen holtes blijven, inzonderheid rond de wapening. De maximale laagdikte van de herstelmortel die per arbeidsgang mag aangebracht worden (vermeld in de technische fiches van de mortel) dient strikt gerespecteerd te worden. Op plaatsen waar over grotere dikte dient te worden hersteld dient gebruik gemaakt te worden van een gietbare herstelmortel die beschikt over het BENOR-merk. De uitvoering (bekisting, menging, ...) dient conform te zijn aan de richtlijnen van de fabrikant. De betonherstellingen worden bij voorkeur uitgevoerd door een gespecialiseerde firma die gecertificeerd is voor de manuele herstelling van gecarbonateerd beton (conform de normenreeks NBN EN 1504).
- H. Indien nodig het plaatselijk aanbrengen van een egaliseermortel om een geschikt aspect te bekomen voor het eventueel aanbrengen van een beschermingssysteem en om een bijkomende betondekking te bekomen in zones waar deze te klein is. Deze mortel dient te beschikken over het BENOR-merk en dient compatibel te zijn met het betonherstellingssysteem. Het doel ervan is om een aspect te bekomen dat zo goed mogelijk gelijk op het aspect van de niet beschadigde betonnen delen. De herstelmortel waarop de egaliseermortel wordt aangebracht dient getextueerd te worden. Tevens dienen de richtlijnen van de fabrikant opgevolgd te worden (voorbereiding ondergrond, ouderdom herstelmortel, vochtigheid ondergrond, ...).
- I. Het aanbrengen van een betonbeschermingssysteem (coating conform NBN EN 1504-2) op de betonnen delen na de herstellingen. Dit komt sowieso de duurzaamheid van de constructie ten goede. Kleine scheurvorming wordt overbrugd en de constructie wordt op die manier veel beter beschermd tegen de invloeden van buitenaf (carbonatatie, bevochtiging, eventuele chemische invloeden, ...). Naast dit technisch aspect, heeft het aanbrengen van een coating tevens een esthetisch aspect. Zonder het aanbrengen van een coating zullen de betonherstellingen immers veel meer zichtbaar blijven (kleurverschil, verschil in textuur, ...).



Rapport Res. Nefertiti - 30-08-23

Project: Residentie Nefertiti

Werfadres:

Achtergevel



*01: 1.02; 1.04
*02: 1.03; 1.14; 1.13

*03: 1.15; 1.17

Voorgevel



*01: 1.09; 1.11
*02: 1.07; 1.06
*03: 1.25; 1.21

*04: 1.20; 1.22; 1.23

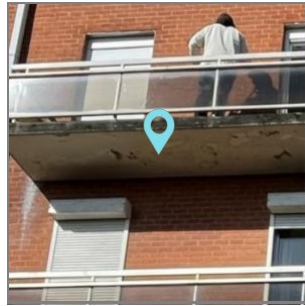
1.01 Titel: **Sporen van vocht**
Lijst: Betononderzoek voor- en achtergevel
Status: **Infiltratie**
Subcategorie: Beton/Metselwerk / Vloeistofdichtheid
Lokaal: Achtergevel / app 201

Sporen van vocht

Uitgebreide sporen van infiltraties aan onderzijde bovenliggend terras. Hierdoor bladdert de coating af.



Achtergevel



Achtergevel



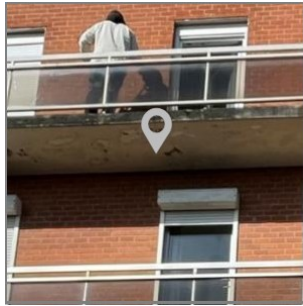
1.02 Titel: **Betondekking + carbonatatie + chloridgehalte**
 Lijst: Betononderzoek voor- en achtergevel
 Status: **Staalname**
 Subcategorie: Beton/Metselwerk / Staalname
 Lokaal: Achtergevel / app 201

Betondekking + carbonatatie + chloridgehalte

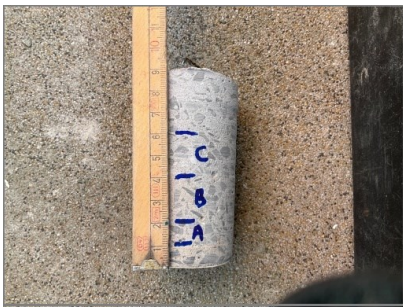
Onderzijde terras app 301. Car +-10mm



Achtergevel



Achtergevel



1.03 Titel: **Betondekking**
 Lijst: Betononderzoek voor- en achtergevel
 Status: **Staalname**
 Subcategorie: Beton/Metselwerk / Staalname
 Lokaal: Achtergevel / app 201

Betondekking

Bovenzijde terras app. 201



Achtergevel



Achtergevel

1.04 Titel: **Algemeen**
 Lijst: **Betononderzoek voor- en achtergevel**
 Status: **Andere**
 Subcategorie: **Algemeen / Algemene beschrijving**
 Lokaal: **Achtergevel / app 201**

Algemeen

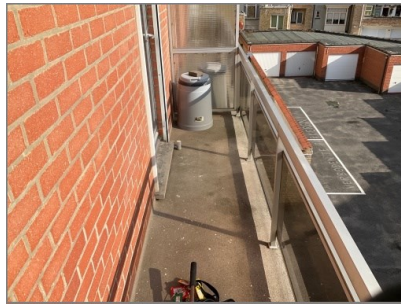
Betonnen vloerplaat terras (5,2m x 0,9m; dikte 14-16cm) voorzien van een vloeibaar aangebrachte waterdichting met kwartsafwerking. De onderzijde van het bovenliggend terras is voorzien van een coating. De borstwering (hoogte 89cm) bestaat uit alu stijlen en handgreep met vulelementen in glas.



Achtergevel



Achtergevel



1.05 Titel: **Algemeen**
Lijst: **Betononderzoek voor- en achtergevel**
Status: **Andere**
Subcategorie: Algemeen / Algemene beschrijving
Lokaal: Voorgevel / app 201

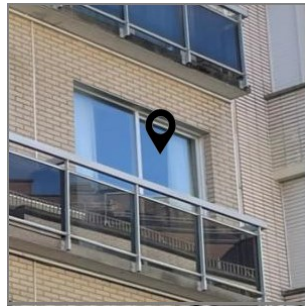
Algemeen

Het betreft een smal terras (3,6m x 0,3m; dikte 12cm) waarvan de betonnen vloerplaat voorzien is van een vloeibaar aangebrachte waterdichting met kwartsafwerking. De onderzijde van het bovenliggend terras is voorzien van een coating.

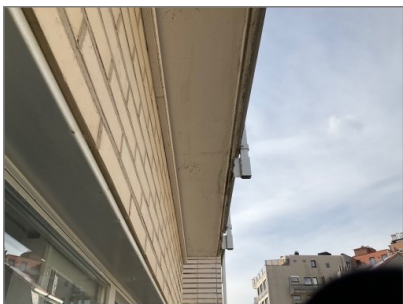
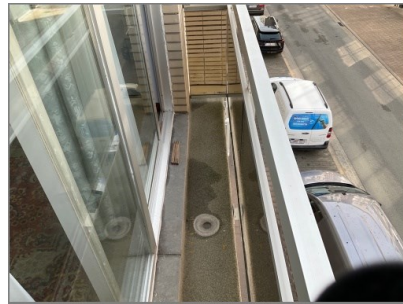
De borstwering (hoogte 98cm) bestaat uit alu stijlen en handgreep met vulelementen in glas.



Voorgevel



Voorgevel



- 1.06 Titel: **Sporen van vocht**
Lijst: Betononderzoek voor- en achtergevel
Status: **Infiltratie**
Subcategorie: Beton/Metselwerk / Vloeistofdichtheid
Lokaal: Voorgevel / app 201

Sporen van vocht

De onderzijde van het bovenliggend terras vertoont sporen van vocht waardoor de coating afbladdert.



Voorgevel



Voorgevel



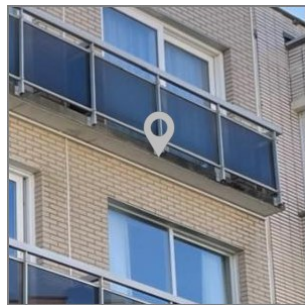
- 1.07 Titel: **Betondekking**
Lijst: Betononderzoek voor- en achtergevel
Status: **Staalname**
Subcategorie: Beton/Metselwerk / Staalname
Lokaal: Voorgevel / app 201

Betondekking

Onderzijde terras app 301.



Voorgevel



Voorgevel

1.08 Titel: **Betondekking + carbonatatie + chloridgehalte**
Lijst: Betononderzoek voor- en achtergevel
Status: Staalname
Subcategorie: Beton/Metselwerk / Staalname
Lokaal: Voorgevel / app 201

Betondekking + carbonatatie + chloridgehalte

Bovenzijde terras app 201. Carbonatatie onderzijde +-10mm, bovenzijde 0mm



Voorgevel



Voorgevel



1.09 Titel: **Algemeen**
Lijst: **Betononderzoek voor- en achtergevel**
Status: **Andere**
Subcategorie: Algemeen / Algemene beschrijving
Lokaal: Voorgevel / app 302

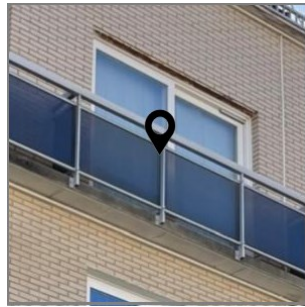
Algemeen

Het betreft een smal terras (3,6m x 0,3m; dikte 12cm) waarvan de betonnen vloerplaat voorzien is van een vloeibaar aangebrachte waterdichting met kwartsafwerking. De onderzijde van de bovenliggende kroonlijst is niet voorzien van een coating.

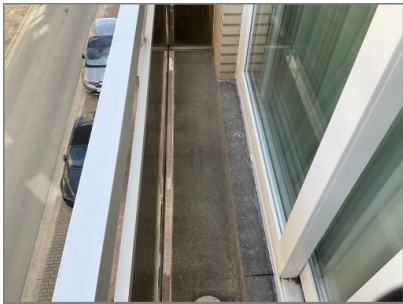
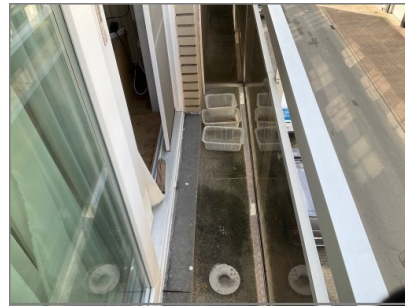
De borstwering (hoogte 98cm) bestaat uit alu stijlen en handgreep met vulelementen in glas.



Voorgevel



Voorgevel



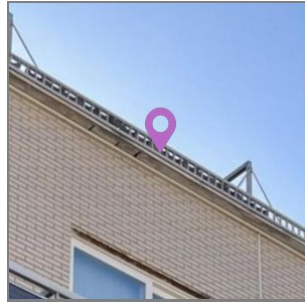
1.10 Titel: **Betonschade (algemeen)**
Lijst: Betononderzoek voor- en achtergevel
Status: **Betonschade**
Subcategorie: Beton/Metselwerk / Stabiliteit/Integriteit
Lokaal: Voorgevel / app 302

Betonschade (algemeen)

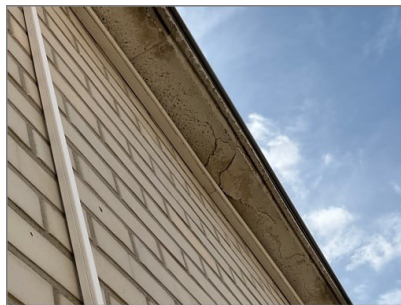
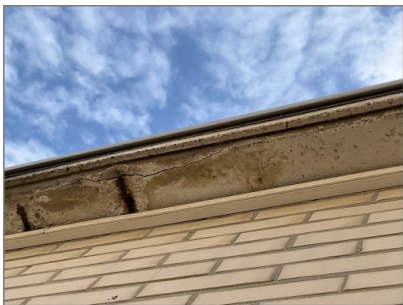
De kroonlijst vertoont uitgebreide betonschade die zich manifesteert door scheuren, loskomende brokstukken of schillen en blootliggende wapening.



Voorgevel



Voorgevel



1.11 Titel: **Betondekking + carbonatatie + chloridgehalte + cementgehalte**
Lijst: Betononderzoek voor- en achtergevel
Status: Staalname
Subcategorie: Beton/Metselwerk / Staalname
Lokaal: Voorgevel / app 302

Betondekking + carbonatatie + chloridgehalte + cementgehalte

Bovenzijde terras app 302. Geen carbonatatie aan boven- en onderzijde.



Voorgevel



Voorgevel



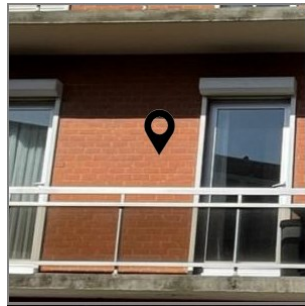
1.12 Titel: **Algemeen**
Lijst: **Betononderzoek voor- en achtergevel**
Status: **Andere**
Subcategorie: **Algemeen / Algemene beschrijving**
Lokaal: **Achtergevel / app 101**

Algemeen

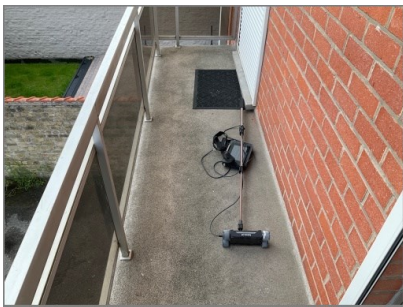
Betonnen vloerplaat terras (5,2m x 0,9m; dikte 14-16cm) voorzien van een vloeibaar aangebrachte waterdichting met kwartsafwerking. De onderzijde van het bovenliggend terras is voorzien van een coating. De borstwering (hoogte 89cm) bestaat uit alu stijlen en handgreep met vulelementen in glas.



Achtergevel



Achtergevel



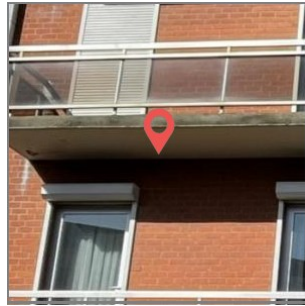
- 1.13 Titel: **Bekleding gedegrad**
Lijst: Betononderzoek voor- en achtergevel
Status: **Gebrek/Defect**
Subcategorie: Beton/Metselwerk / Bescherming
Lokaal: Achtergevel / app 101

Bekleding gedegrad

Lokaal is de coating beschadigd zonder dat er zichtbare sporen van vocht zijn.



Achtergevel



Achtergevel



- 1.14 Titel: **Betondekking + carbonatatie + chloridengehalte**
Lijst: Betononderzoek voor- en achtergevel
Status: **Staalname**
Subcategorie: Beton/Metselwerk / Staalname
Lokaal: Achtergevel / app 101

Betondekking + carbonatatie + chloridengehalte

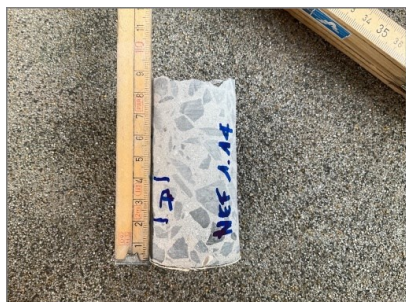
Onderzijde terras app 201. Car +-12mm



Achtergevel



Achtergevel



- 1.15 Titel: **Betondekking**
Lijst: Betononderzoek voor- en achtergevel
Status: **Staalname**
Subcategorie: Beton/Metselwerk / Staalname
Lokaal: Achtergevel / app 101

Betondekking

Bovenzijde terras app 101.



Achtergevel



Achtergevel

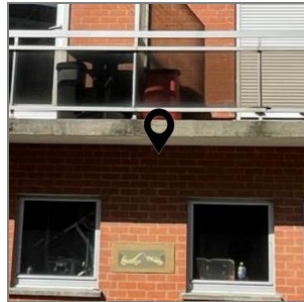
-
- 1.16 Titel: **Algemeen**
Lijst: Betononderzoek voor- en achtergevel
Status: **Andere**
Subcategorie: Algemeen / Algemene beschrijving
Lokaal: Achtergevel / gelijkvloers

Algemeen

Onderzijde terrassen eerste verdieping voorzien van een coating.



Achtergevel



Achtergevel



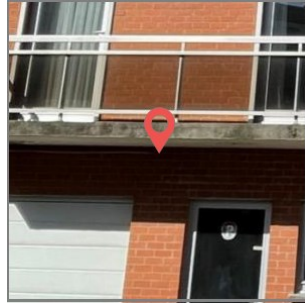
1.17 Titel: **Bekleding gedegrad**
Lijst: Betononderzoek voor- en achtergevel
Status: **Gebrek/Defect**
Subcategorie: Beton/Metselwerk / Bescherming
Lokaal: Achtergevel / gelijkvloers

Bekleding gedegrad

Coating vertoont schade zonder dat er zichtbare sporen van vocht zijn.



Achtergevel



Achtergevel



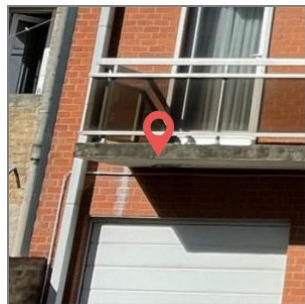
1.18 Titel: **Scheuren**
Lijst: Betononderzoek voor- en achtergevel
Status: **Gebrek/Defect**
Subcategorie: Beton/Metselwerk / Stabiliteit/Integriteit
Lokaal: Achtergevel / gelijkvloers

Scheuren

Horizontale scheur in afwerking terrasrand.



Achtergevel



Achtergevel



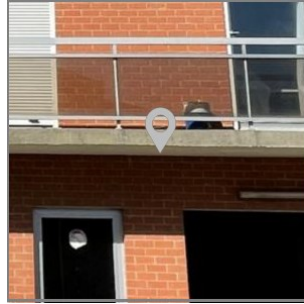
1.19 Titel: **Betondekking + carbonatatie + chloridgehalte**
Lijst: Betononderzoek voor- en achtergevel
Status: Staalname
Subcategorie: Beton/Metselwerk / Staalname
Lokaal: Achtergevel / gelijkvloers

Betondekking + carbonatatie + chloridgehalte

Onderzijde terras app 103. Car +/-15mm



Achtergevel



Achtergevel



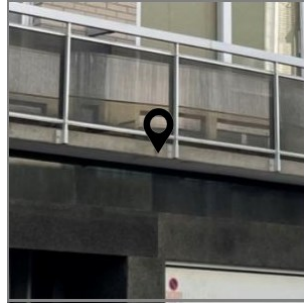
1.20 Titel: **Algemeen**
Lijst: Betononderzoek voor- en achtergevel
Status: **Andere**
Subcategorie: Algemeen / Algemene beschrijving
Lokaal: Voorgevel / gelijkvloers

Algemeen

De onderzijde van de terrassen van de eerste verdieping is voorzien van een coating.



Voorgevel



Voorgevel



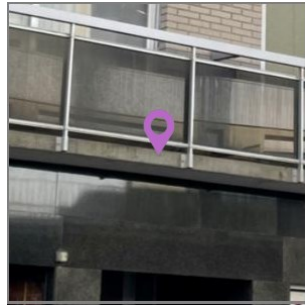
1.21 Titel: **Scheuren**
Lijst: Betononderzoek voor- en achtergevel
Status: **Betonschade**
Subcategorie: Beton/Metselwerk / Stabiliteit/Integriteit
Lokaal: Voorgevel / gelijkvloers

Scheuren

Verskillende (krimp?)scheuren in terrassen eerste verdieping.



Voorgevel



Voorgevel



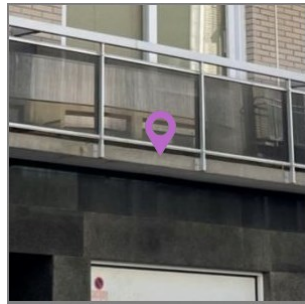
1.22 Titel: **Betonschade (algemeen)**
Lijst: Betononderzoek voor- en achtergevel
Status: **Betonschade**
Subcategorie: Beton/Metselwerk / Stabiliteit/Integriteit
Lokaal: Voorgevel / gelijkvloers

Betonschade (algemeen)

Op verschillende plaatsen wordt betonschade (voornamelijk scheurvorming) vastgesteld. Op één plaats wordt een roestvlek vastgesteld t.p.v. een scheur.



Voorgevel



Voorgevel



1.23 Titel: **Betondekking + carbonatatie + chloridgehalte**
 Lijst: Betononderzoek voor- en achtergevel
 Status: Staalname
 Subcategorie: Beton/Metselwerk / Staalname
 Lokaal: Voorgevel / gelijkvloers

Betondekking + carbonatatie + chloridgehalte

Onderzijde terras app 102. Car +5mm



Voorgevel



Voorgevel



1.24 Titel: **Betonschade (algemeen)**
 Lijst: Betononderzoek voor- en achtergevel
 Status: Betonschade
 Subcategorie: Beton/Metselwerk / Stabiliteit/Integriteit
 Lokaal: Voorgevel / app 202

Betonschade (algemeen)

Betonschade zichtbaar aan voorzijde terrasrand.



Voorgevel



Voorgevel



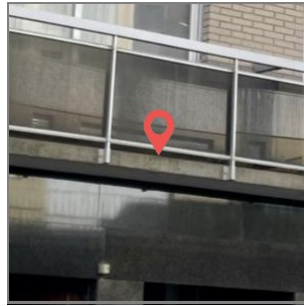
1.25 Titel: **Bekleding gedegrad**
Lijst: Betononderzoek voor- en achtergevel
Status: **Gebrek/Defect**
Subcategorie: Beton/Metselwerk / Bescherming
Lokaal: Voorgevel / gelijkvloers

Bekleding gedegrad

De coating bladdert lokaal af zonder dat er zichtbare sporen van vocht zijn.



Voorgevel



Voorgevel

