



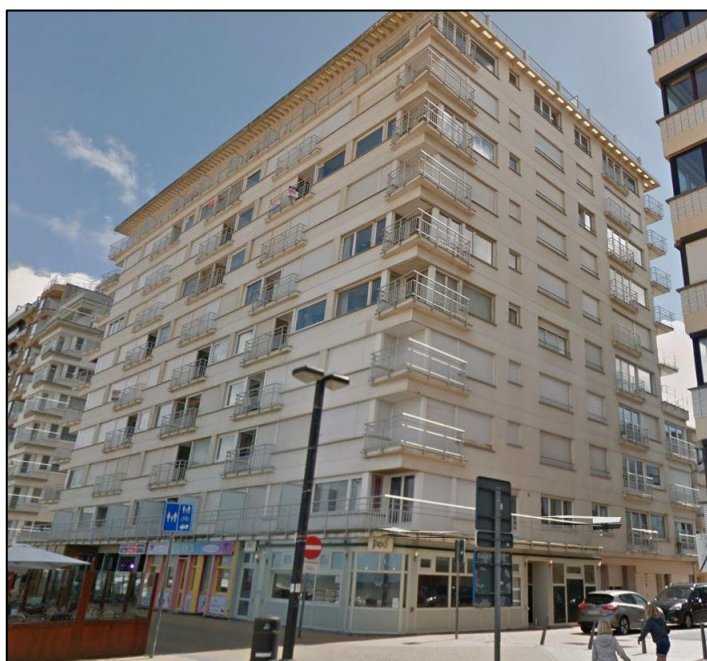
VINÇOTTE nv

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- Onze gegevens
Verslagnr.: 61426694/01
Contractref. : 100868964/2273568
Contact: ing. Kris Geeroms
- Uw gegevens
Ref.: /
Contact: Paul Hermans

VME TRIANON

p/a laPlage
Distellaan 34
8434 WESTENDE



Residentie Trianon Koning Ridderdijk 44 8434 Westende

BETONONDERZOEK VAN ENKELE TERRASSEN AAN DE VOOR- EN ACHTERGEVEL EN VAN ENKELE GEVELEMENTEN AAN DE VOORGEVEL

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 30 bladzijden (zonder bijlagen).

ing. Kris Geeroms
Lead Contract Engineer
Civil Works
Building

ing. Jan De Muer
Teamlead
Civil Works
Building

Bijlagen: 1. Fiches; 2. Laboverslag.
Distributie: VME Trianon;
cc: Paul Hermans (Architectenatelier Vyvey & Partners).

VERSLAGNR. : 61426694/01

20 februari 2025

0 INHOUD

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1 DOEL VAN DE OPDRACHT

Op 21 januari 2025 hebben we een betononderzoek uitgevoerd van enkele terrassen aan de voor- en achtergevel en van enkele gevelelementen aan de voorgevel van Residentie Trianon, gelegen aan de Koning Ridderdijk 44 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. 109, 507, 612, 704, 706) en vanuit een hoogwerker

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

Er werden 4 betonkernen diameter 50mm en 24 boorstofmonsters ontnomen ter bepaling van het chloridegehalte.

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

De carbonatatie diepte werd eveneens bepaald door het boren van gaten in het element. Tijdens het boren wordt het boorstof opgevangen op een doekje dat gedrenkt werd in fenolftaleïne. Wanneer er een verkleuring optreedt wordt het niet-gecarbonateerde beton bereikt. De diepte van het boorgat komt dan ongeveer overeen met de diepte van het carbonatatiefront.

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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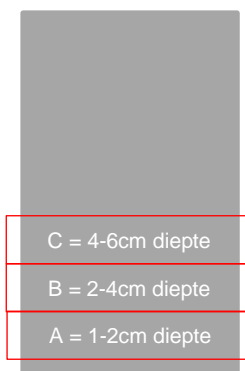
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Fiche	Betondekking [mm]	Plaats	Carb. [mm]
1.24	Meettoestel werkte niet meer door de regen	Verdieping +5 – Gevel Koning Ridderdijk – Onderzijde bovenliggend terras	10

Fiche	Betondekking [mm]	Plaats	Carb. [mm]
1.27	Meettoestel werkte niet meer door de regen	Verdieping +6 – Gevel Koning Ridderdijk – Onderzijde bovenliggend terras	21/14

5.2 BEPALING VAN HET CHLORIDEGEHALTE

Chlorideprofiel



Zie ook het laboverslag in bijlage 2.

Proef	Fiche	Plaats	% chloriden t.o.v. betonmassa	% chloriden t.o.v. cementmassa
TRI 1.03A	1.03	App. 704 – Gevel Koning Ridderdijk – Onderzijde bovenliggend terras	0,017	0,12
TRI 1.03B			0,014	0,10
TRI 1.03C			0,013	0,09
TRI 1.08A	1.08	App. 706 – Achtergevel – Onderzijde bovenliggend terras	0,015	0,11
TRI 1.08B			0,009	0,06
TRI 1.08C			0,006	0,04
TRI 1.11A	1.11	App. 612 – Achtergevel – Onderzijde bovenliggend terras	0,011	0,08
TRI 1.11B			0,011	0,08
TRI 1.11C			0,012	0,09
TRI 1.13A	1.13	App. 507 – Achtergevel – Onderzijde bovenliggend terras	0,017	0,12
TRI 1.13B			0,010	0,07
TRI 1.13C			0,009	0,06
TRI 1.17A	1.17	App. 109 – Gevel Koning Ridderdijk – Linteel	0,147	1,06
TRI 1.17B			0,100	0,72
TRI 1.17C			0,095	0,68
TRI 1.18A	1.18	Verdieping +8 – Gevel Westenlaan – Gevelbalk	0,053	0,38
TRI 1.18B			0,060	0,43
TRI 1.18C			0,048	0,35
TRI 1.19A	1.19	Verdieping +3 – Gevel Westenlaan – Gevelbalk	0,101	0,73
TRI 1.19B			0,119	0,86
TRI 1.19C			0,102	0,73
TRI 1.20A	1.20	Verdieping +4 – Gevel Noordzeelaan – Gevelbalk	0,087	0,63
TRI 1.20B			0,090	0,65
TRI 1.20C			0,107	0,77
TRI 1.21A	1.21	Verdieping +8 – Gevel Noordzeelaan – Gevelbalk	0,065	0,47
TRI 1.21B			0,091	0,65
TRI 1.21C			0,061	0,44
TRI 1.22A	1.22	Verdieping +2 – Gevel Koning Ridderdijk – Onderzijde bovenliggend terras	0,104	0,75
TRI 1.22B			0,019	0,14
TRI 1.22C			0,027	0,19
TRI 1.24A	1.24	Verdieping +5 – Gevel Koning Ridderdijk – Onderzijde bovenliggend terras	0,050	0,36
TRI 1.24B			0,025	0,18
TRI 1.24C			0,019	0,14
TRI 1.27A	1.27	Verdieping +6 – Gevel Koning Ridderdijk – Onderzijde bovenliggend terras	0,069	0,50
TRI 1.27B			0,087	0,63
TRI 1.27C			0,103	0,74

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

- SVM beton [kg/m³] : 2300 ;
- Cementgehalte [kg/m³beton] : 320.

6 ANALYSE EN BESLUITEN

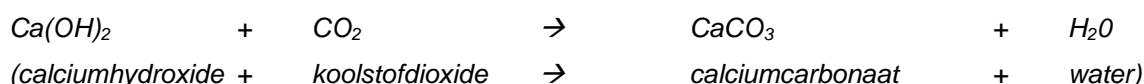
We beoordelen de vaststellingen aan de hand van enkele schadefenomenen.

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.

Hieronder bevindt zich een samenvatting van de meetresultaten voor de verschillende types elementen.

Element	Betondekking [mm]	Carbonatatie [mm]	Opmerking
Terrassen voorgevel	18-46	0-20	/
Gevelbalken/lintelen voorgevels	30-59	10-20	Metingen uitgevoerd op het voorvlak
Terrassen achtergevel	32-51	0	/
Inpandig terras achtergevel	16	10	Beton bekleed met cementgebonden houtwolplaat 2cm.

Momenteel wordt weinig wapening vastgesteld die zich in het gecarbonateerde beton bevindt en dus potentieel onderhevig is aan wapeningscorrosie (staven aangeduid in rood op de grafieken hierboven). Er wordt dan ook weinig of geen zichtbare gevorderde betonschade vastgesteld.

Op basis van bovenstaande samenvatting kunnen we op middellange termijn toch bijkomende betonschade verwachten voornamelijk aan de terrassen aan de voorgevel en de inpandige terrassen aan de achtergevel (al is het beton van deze laatste beschermd door een cementgebonden houtwolplaat).

Aan de onderzijde van een gevelbalk hebben we wel een scheur vastgesteld die vermoedelijk het gevolg is van wapeningscorrosie. Aan de onderrand van de balk is er blootstelling aan en indringing van CO₂ langs verschillende zijden waardoor plaatselijk de carbonatatediepte groter kan zijn. De betondekking t.o.v. de onderrand kon niet bepaald worden, maar is mogelijk ook kleiner dan deze die vastgesteld werd t.o.v. het voorvlak.

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.

Normaliter wordt het corrosiegevaar in functie van het chloridegehalte 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
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TRI 1.27B			0,087	0,63
TRI 1.27C			0,103	0,74

Algemeen kunnen we stellen dat de gemeten chloridegehalten in de gevelbalken aan de voorgevels duiden op een matig corrosiegevaar van de wapening ten gevolge van de chloriden. Op middellange termijn kunnen we toch bijkomende betonschade verwachten voornamelijk aan de terrassen en de onderrand van de gevelbalken.

Aan de terrassen worden eerder lage chloridegehalten vastgesteld (met één uitzondering. Het risico op wapeningscorrosie ten gevolge van chloriden wordt dan ook globaal gezien als klein ingeschat voor de terrassen.

Algemene evaluatie

Zichtbare betonschade (scheuren, loskomende betonschillen, blootliggende wapening) wordt meestal veroorzaakt door wapeningscorrosie ten gevolge van carbonatatie. De metingen en proeven hebben op dit moment weinig wapening aangetoond die zich potentieel in het gecarbonateerde beton kan bevinden. Er is dan ook geen algemeen voorkomende betonschade te wijten aan carbonatatie te verwachten op korte en middellange termijn.

Op de bezochte plaatsen hebben we enkel aan een gevelbalk mogelijk een teken van betonschade ten gevolge van carbonatatie vastgesteld.

Op verschillende plaatsen werden ook kripscheuren vastgesteld. Deze zijn op zich niet te wijten aan wapeningscorrosie, maar vormen uiteraard lokaal een plaats waar CO₂, chloriden en vocht gemakkelijker en dieper kunnen in het beton dringen en die dus gevoeliger is aan betonschade.

De mate waarin de corrosie zal optreden hangt ook af van de mate waarin vocht of water(damp) tot bij de wapening kan indringen. De terrassen zijn voorzien van een troffelvloer of betegeling. De zichtvlakken zijn voorzien van een coating die mogelijk ook carbonatatierevend is. We hebben echter plaatselijk blaasvorming vastgesteld of sporen van infiltraties t.p.v. scheuren. Dit duidt erop dat het beton op sommige

plaatsen onderhevig is aan infiltraties en er dus voldoende vocht aanwezig kan zijn om het corrosieproces op gang te brengen.

In het kader van een gevelrenovatie en/of betonherstellingen is het aangeraden om de waterdichting van de terrassen te herstellen/vernieuwen en de zichtbare betonvlakken te voorzien van een carbonatieremmende coating.

Omwille van de aanwezige chloriden in de gevelbalken en omwille van de ligging aan de kust is het noodzakelijk om de nodige voorzorgen te nemen bij betonherstellingen. Het gewoon herstellen van het beton (zelfs als die uitvoerig en verzorgd gebeurt) kan zeer snel leiden tot het ontstaan van herstelcorrosie in de naastliggende zone (binnen de 10 jaar). De risico's zijn eigen aan het

Chloridegehalte (m/m _{cement}) t.h.v. wapening	Behandeling ²	Principes NBN EN1504-9
< 0,2% (spanbeton)	Klassieke betonherstelling	Principe 3
< 0,4% (gewapend beton)	Preventieve toepassingen: Elastische coating/Impregneren	Principes 1, 2, 6
0,4 – 1% (lichte plaatselijke corrosie)	Klassieke betonherstelling Lokale offeranodes Preventieve toepassingen: Elastische coating/Impregneren Kathodische bescherming (globaal)	Principe 3 Principe 10 Principes 1, 2, 6 Principe 10
1 – 2% (ernstige, maar lokale corrosie)	Klassieke betonherstelling inclusief spuitbeton of spuitmortel (buffer) vervangen van te sterk aangetaste zones Offeranodes (globaal) Kathodisch beschermingssysteem met opgelegde stroom Preventieve toepassingen: Elastische coating/Impregneren	Principe 3 3.3 3.4 Principe 10 Principe 10 Principes 1, 2, 6
>2% (ernstige globale corrosie; stabiliteitsrisico)	Globaal Kathodisch beschermingssysteem met opgelegde stroom met offeranodes <i>Een dergelijk systeem vereist een aangepast ontwerp en een deskundige uitvoering. Het systeem kan enkel worden toegepast wanneer de constructie nog niet te sterk is aangetast.</i> Structurele versterking (in geval stabiliteitsproblemen) Sloop	Principe 10 Principe 4 /

project en hangen ook af van de herstelmethod. Zie ook de samenvatting hiernaast uit "Aanbeveling behandeling chlorideschade" (FEREB april 2011).

Gezien de chlorideconcentratie in de gevelbalken is het aangewezen om bij eventuele betonherstellingen aan de balken lokale offeranodes aan te brengen. Voor herstellingen aan de terrassen is dit niet strikt noodzakelijk, maar raden we aan om ze wel als voorzorgsmaatregel toe te passen, zeker gezien er toch een verhoogd chloridegehalte aan één terras werd vastgesteld..

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 herstelmortels die beschikken over een BENOR-certificaat.

De gebruikte producten (herstelmortels, 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.

Herstelprincipes 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, ...).

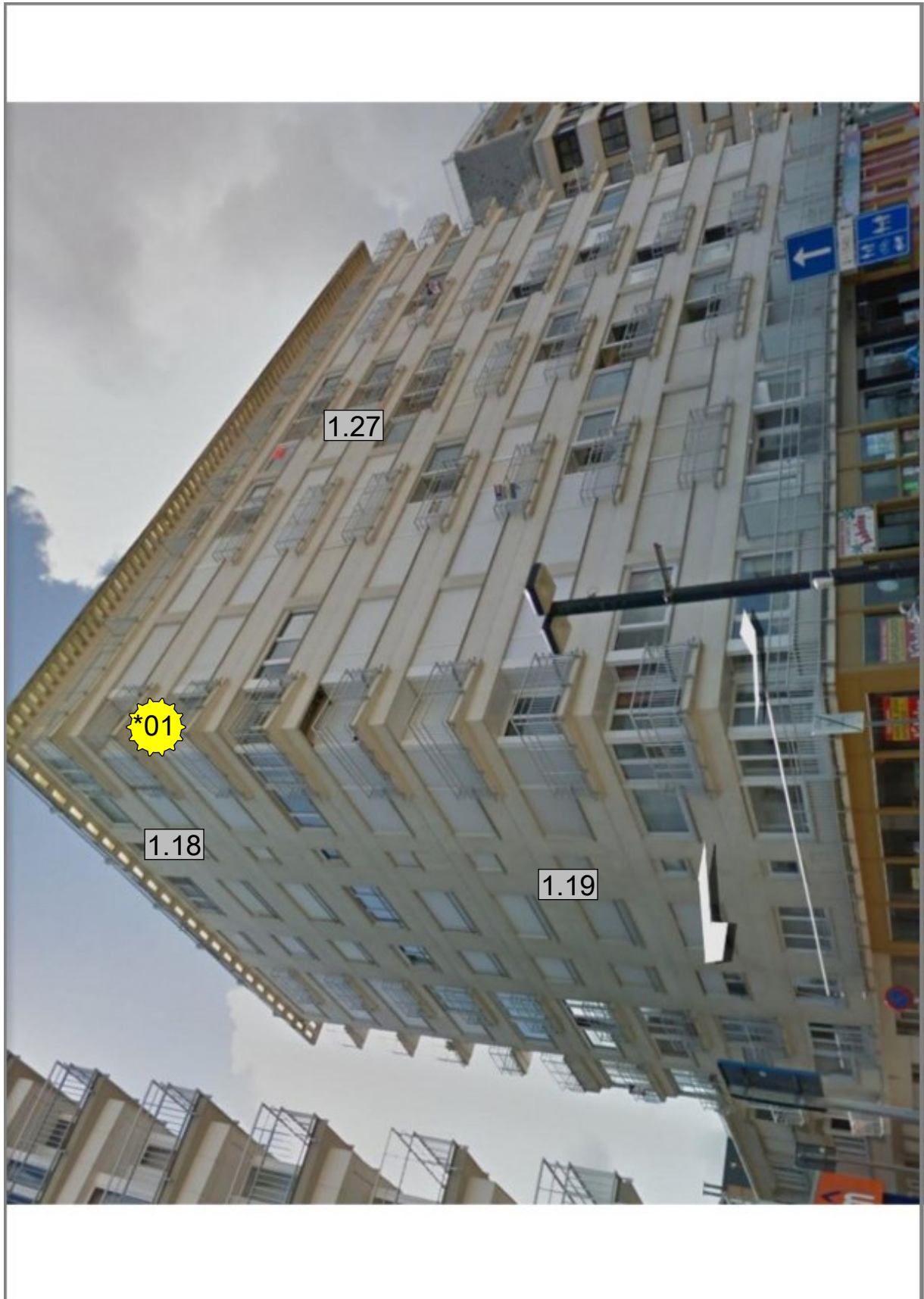


rapport Residentie Trianon - 20-01-25

Project: Residentie Trianon

Werfadres:

Voorgevel 2



*01: 1.03; 1.02; 1.01

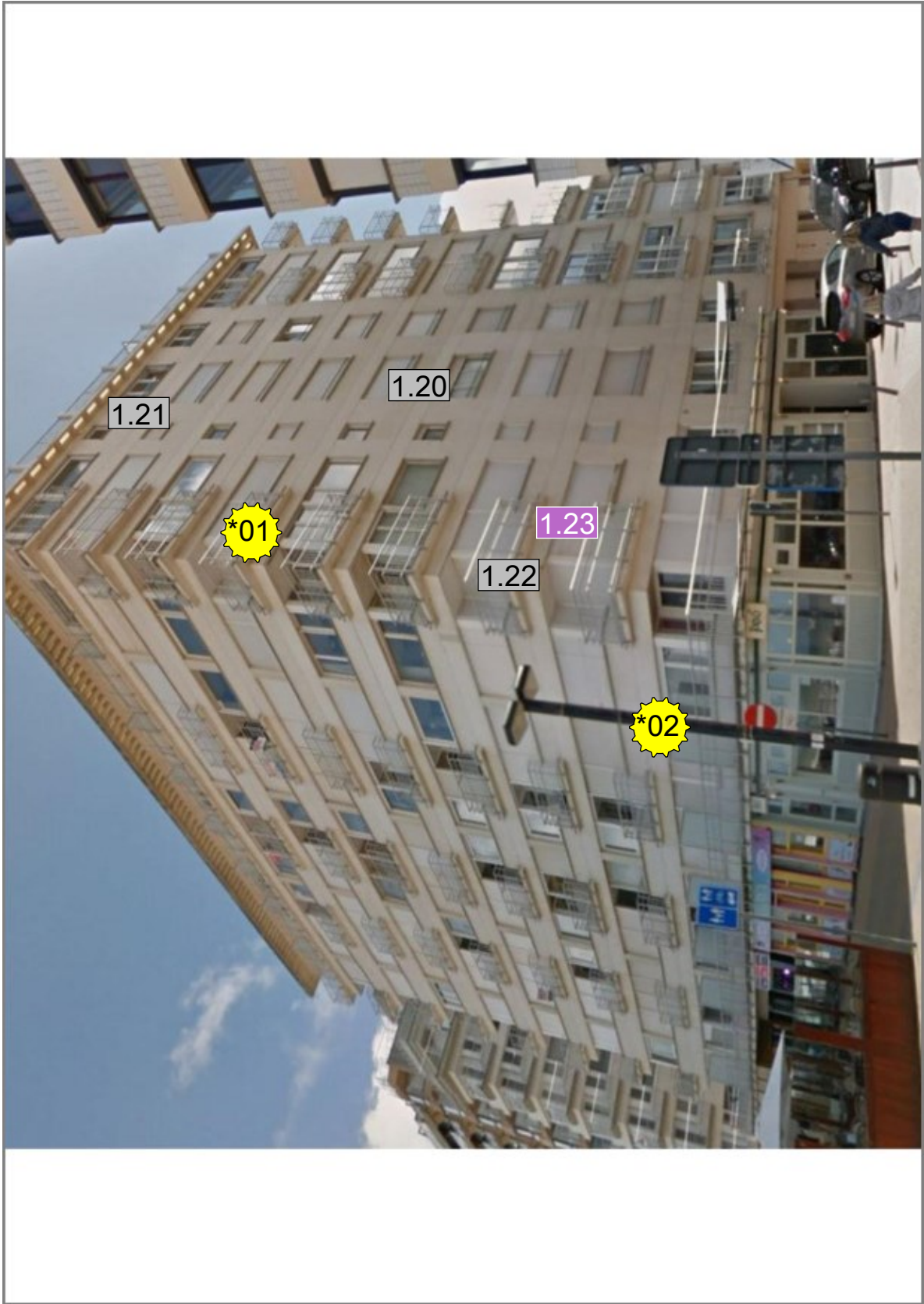
achtergevel 2



*01: 1.06; 1.05; 1.08; 1.04
*02: 1.10; 1.09; 1.11

*03: 1.13; 1.12

Voorgevel 1



*01: 1.24; 1.26; 1.25
*02: 1.16; 1.17; 1.15; 1.14

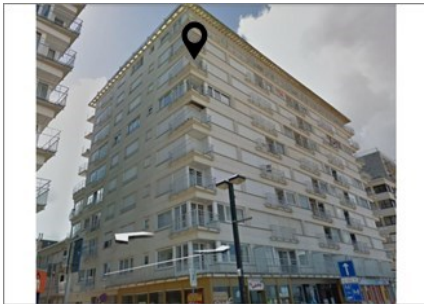
rapport Residentie Trianon - 20-01-25

1.01 Titel: **Algemeen**
Lijst: Betononderzoek gevels
Status: **Andere**
Subcategorie: Algemeen / Algemene beschrijving
Lokaal: Gevel Koning Ridderdijk / app. 704

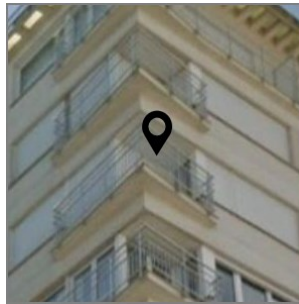
Algemeen

1.01

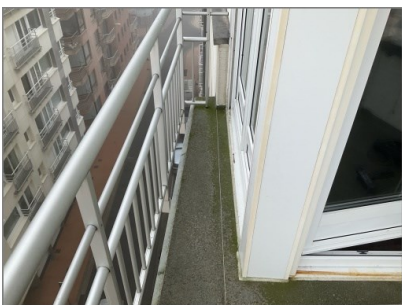
Het terras bevindt zich op de hoek. Het bestaat uit een betonnen plaat die voorzien is van een troffelvloer. De onderzijde van het bovenliggende terras is grotendeels verstopt achter een plaat. Enkel het deel dat uitkraagt is zichtbaar. De zichtbare betonnen delen zijn voorzien van een coating. De borstwering bestaat uit een alu structuur. De voeten zijn op het voorvlak van de terrasrand bevestigd. De hoogte ervan bedraagt 102cm.



Voorgevel 2



Voorgevel 2



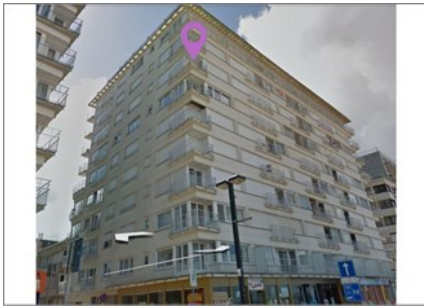
rapport Residentie Trianon - 20-01-25

1.02 Titel: **Scheuren**
Lijst: Betononderzoek gevels
Status: **Betonschade**
Subcategorie: Beton/Metselwerk / Stabiliteit/Integriteit
Lokaal: Gevel Koning Ridderdijk / app. 704

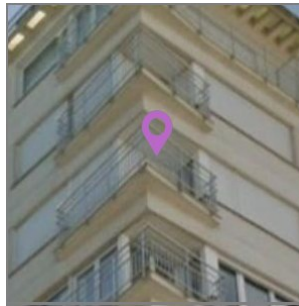
Scheuren

1.02

Aan de onderzijde van het bovenliggende terras wordt scheurvorming vastgesteld.



Voorgevel 2



Voorgevel 2



rapport Residentie Trianon - 20-01-25

1.03 Titel: **Betondekking + carbonatatie + chloridegehalte**
Lijst: Betononderzoek gevels
Status: Staalname
Subcategorie: Beton/Metselwerk / Staalname
Lokaal: Gevel Koning Ridderdijk / app. 704

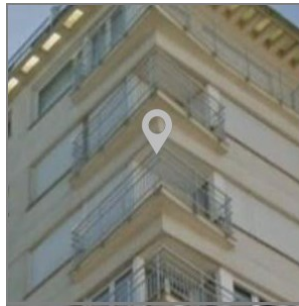
Betondekking + carbonatatie + chloridegehalte

1.03

Onderzijde bovenliggend terras. Boorstof. Car 0



Voorgevel 2



Voorgevel 2

rapport Residentie Trianon - 20-01-25

1.04 Titel: **Algemeen**
Lijst: **Betononderzoek gevels**
Status: **Andere**
Subcategorie: Algemeen / Algemene beschrijving
Lokaal: Achtergevel / app. 706

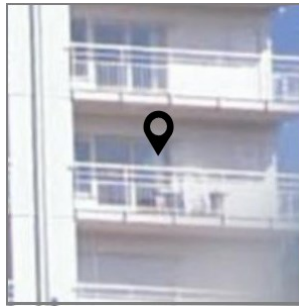
Algemeen

1.04

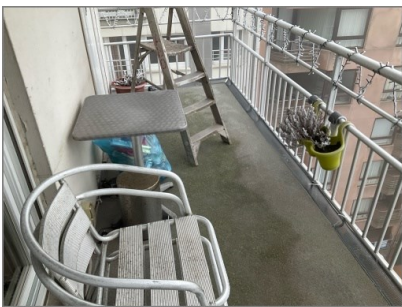
Het terras (6,1m x 1,6m) bestaat uit een uitkragende betonnen vloerplaat en is voorzien van een troffelvloer. De onderzijde van het bovenliggend terras is voorzien van een coating. De borstwering bestaat uit een alu structuur. De voeten ervan zijn bevestigd in het voorvlak van de terrasrand. De hoogte bedraagt 102cm.



achtergevel 2



achtergevel 2



rapport Residentie Trianon - 20-01-25

1.05 Titel: **Scheuren**
Lijst: Betononderzoek gevels
Status: **Betonschade**
Subcategorie: Beton/Metselwerk / Stabiliteit/Integriteit
Lokaal: Achtergevel / app. 706

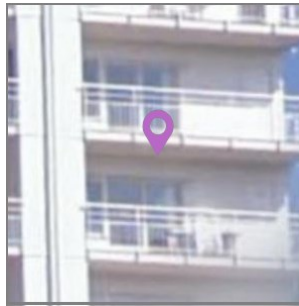
Scheuren

1.05

Aan de onderzijde van het bovenliggend terras wordt een dwarse scheur vastgesteld.



achtergevel 2



achtergevel 2



rapport Residentie Trianon - 20-01-25

1.06 Titel: **Infiltratie**
Lijst: Betononderzoek gevels
Status: **Infiltratie**
Subcategorie: Beton/Metselwerk / Vloeistofdichtheid
Lokaal: Achtergevel / app. 706

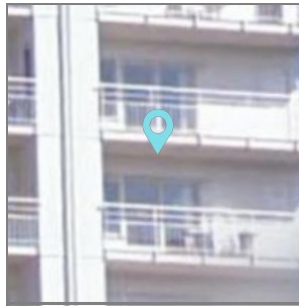
Infiltratie

1.06

Sporen van infiltratie aan de onderzijde van het bovenliggend terras t.h.v. de scheur.



achtergevel 2



achtergevel 2



rapport Residentie Trianon - 20-01-25

1.07 Titel: **Andere**
Lijst: Betononderzoek gevels
Status: **Gebrek/Defect**
Subcategorie: Beton/Metselwerk / Stabiliteit/Integriteit
Lokaal: Achtergevel / app. 706

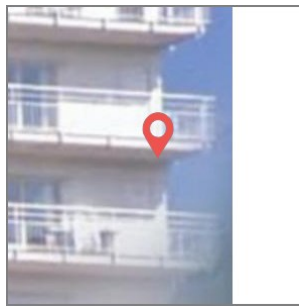
Andere

1.07

2 roestvlekken aan onderzijde bovenliggend terras. Vermoedelijk 2 ankers van een vroegere terrasscheiding.



achtergevel 2



achtergevel 2



rapport Residentie Trianon - 20-01-25

1.08 Titel: **Betondekking + carbonatatie + chloridegehalte**
Lijst: Betononderzoek gevels
Status: **Staalname**
Subcategorie: Beton/Metselwerk / Staalname
Lokaal: Achtergevel / app. 706

Betondekking + carbonatatie + chloridegehalte

1.08

Onderzijde bovenliggend terras. Boorkern. Car 0



achtergevel 2



achtergevel 2



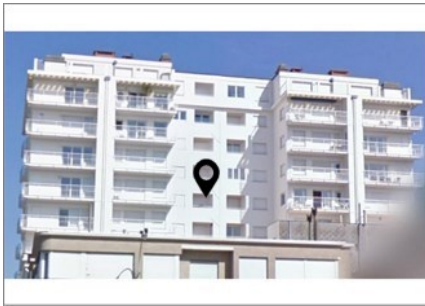
rapport Residentie Trianon - 20-01-25

1.09 Titel: **Algemeen**
Lijst: Betononderzoek gevels
Status: **Andere**
Subcategorie: Algemeen / Algemene beschrijving
Lokaal: Achtergevel / app. 612

Algemeen

1.09

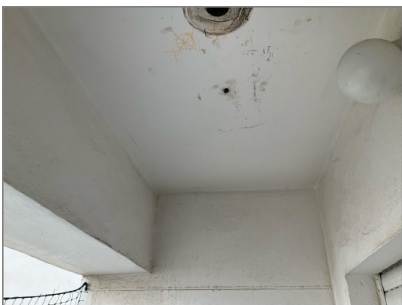
Het betreft een inpandig terras (2,1m x 1,2m) dat voorzien is van een betegeling. De onderzijde van het bovenliggend terras is voorzien van een coating. Uit de kernboring blijkt dat onder de betonplaat een laag heraklith is aangebracht. De borstwering bestaat uit een muurtje waarop een stalen handgreep is geplaatst (totale hoogte: 90cm).



achtergevel 2



achtergevel 2



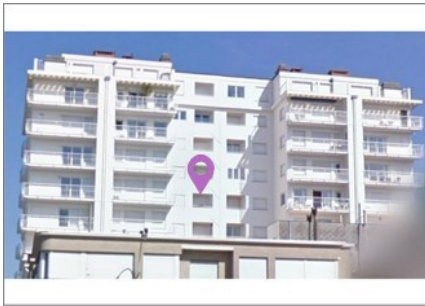
rapport Residentie Trianon - 20-01-25

1.10 Titel: **Scheuren**
Lijst: Betononderzoek gevels
Status: **Betonschade**
Subcategorie: Beton/Metselwerk / Stabiliteit/Integriteit
Lokaal: Achtergevel / app. 612

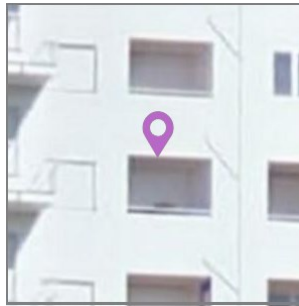
Scheuren

1.10

Scheurvorming aan onderzijde balk in het gevelvlak.



achtergevel 2



achtergevel 2



rapport Residentie Trianon - 20-01-25

1.11 Titel: **Betondekking + carbonatatie + chloridegehalte**
Lijst: Betononderzoek gevels
Status: **Staalname**
Subcategorie: Beton/Metselwerk / Staalname
Lokaal: Achtergevel / app. 612

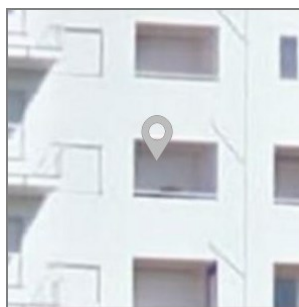
Betondekking + carbonatatie + chloridegehalte

1.11

Onderzijde bovenliggend terras. Boorkern. 2cm bepleistering + cementgebonden houtwolplaat. Car 10mm in beton, 30mm van oppervlak.



achtergevel 2



achtergevel 2



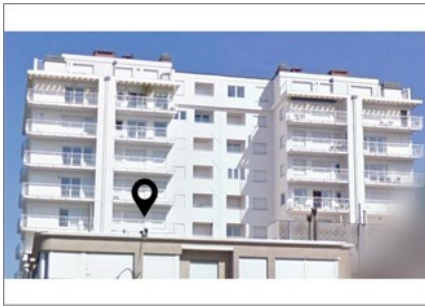
rapport Residentie Trianon - 20-01-25

1.12 Titel: **Algemeen**
Lijst: **Betononderzoek gevels**
Status: **Andere**
Subcategorie: Algemeen / Algemene beschrijving
Lokaal: Achtergevel / app. 507

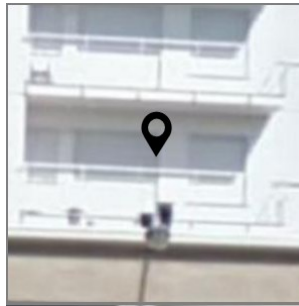
Algemeen

1.12

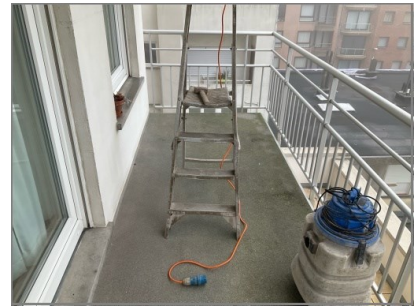
Het terras (5,6m x 1,6m) bestaat uit een uitkragende betonnen vloerplaat en is voorzien van een troffelvloer. De onderzijde van het bovenliggend terras is voorzien van een coating. De borstwering bestaat uit een alu structuur. De voeten ervan zijn bevestigd in het voorvlak van de terrasrand. De hoogte bedraagt 102cm.



achtergevel 2



achtergevel 2



rapport Residentie Trianon - 20-01-25

1.13 Titel: **Betondekking + carbonatatie + chloridegehalte**
Lijst: Betononderzoek gevels
Status: Staalname
Subcategorie: Beton/Metselwerk / Staalname
Lokaal: Achtergevel / app. 507

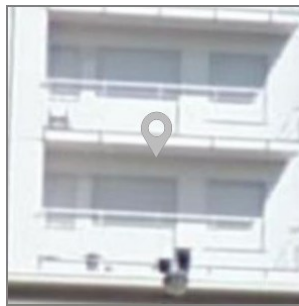
Betondekking + carbonatatie + chloridegehalte

1.13

Onderzijde bovenliggend terras. Boorkern. Car 0



achtergevel 2



achtergevel 2



rapport Residentie Trianon - 20-01-25

1.14 Titel: **Algemeen**
Lijst: **Betononderzoek gevels**
Status: **Andere**
Subcategorie: Algemeen / Algemene beschrijving
Lokaal: Gevel Koning Ridderdijk / app. 109

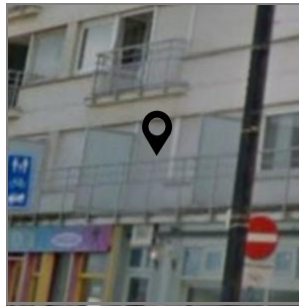
Algemeen

1.14

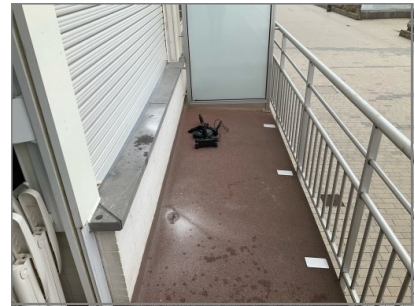
Het terras (4,7m x 1,15m) bevindt zich boven de winkels op het gelijkvloers. Het is voorzien van een troffelvloer. De borstwering bestaat uit een alu structuur. De voeten ervan zijn bevestigd in het voorvlak van de terrasrand. De hoogte bedraagt 102cm. Boven de ramen bevindt zich een doorlopend betonnen element. Dit is voorzien van een coating.



Voorgevel 1



Voorgevel 1



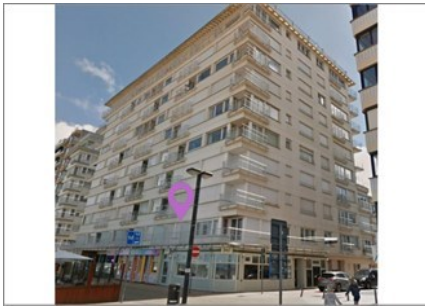
rapport Residentie Trianon - 20-01-25

1.15 Titel: **Scheuren**
Lijst: Betononderzoek gevels
Status: **Betonschade**
Subcategorie: Beton/Metselwerk / Stabiliteit/Integriteit
Lokaal: Gevel Koning Ridderdijk / app. 109

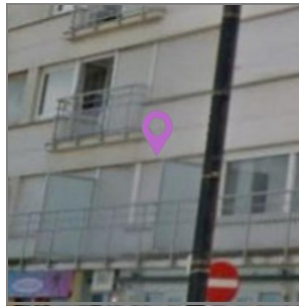
Scheuren

1.15

Het betonnen linteel vertoont (krimp)scheuren.



Voorgevel 1



Voorgevel 1



rapport Residentie Trianon - 20-01-25

1.16 Titel: **Infiltratie**
Lijst: Betononderzoek gevels
Status: **Infiltratie**
Subcategorie: Beton/Metselwerk / Vloeistofdichtheid
Lokaal: Gevel Koning Ridderdijk / app. 109

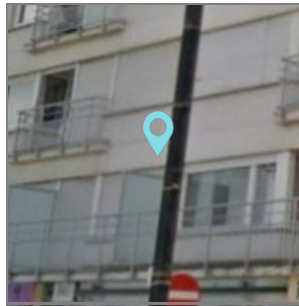
Infiltratie

1.16

Sporen van infiltratie t.h.v. scheur in linteel.



Voorgevel 1



Voorgevel 1



rapport Residentie Trianon - 20-01-25

1.17 Titel: **Betondekking + carbonatatie + chloridegehalte**
Lijst: Betononderzoek gevels
Status: **Staalname**
Subcategorie: Beton/Metselwerk / Staalname
Lokaal: Gevel Koning Ridderdijk / app. 109

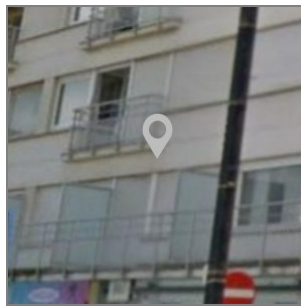
Betondekking + carbonatatie + chloridegehalte

1.17

Linteel. Boorkern. Car 10mm. Boorgaten voorlopig hersteld.



Voorgevel 1



Voorgevel 1



rapport Residentie Trianon - 20-01-25

1.18 Titel: **Betondekking + carbonatatie + chloridegehalte**
Lijst: Betononderzoek gevels
Status: Staalname
Subcategorie: Beton/Metselwerk / Staalname
Lokaal: Gevel Westenlaan / verdieping +8

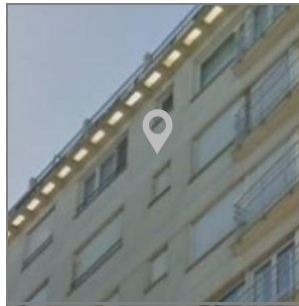
Betondekking + carbonatatie + chloridegehalte

1.18

Gevelbalk. Boorstof. Car 11/7



Voorgevel 2



Voorgevel 2

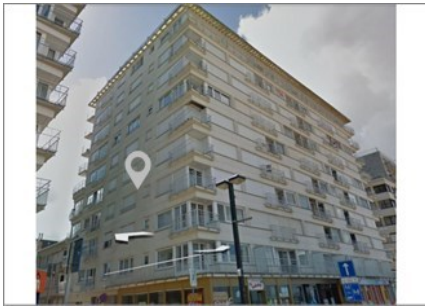
rapport Residentie Trianon - 20-01-25

1.19 Titel: **Betondekking + carbonatatie + chloridegehalte**
Lijst: Betononderzoek gevels
Status: **Staalname**
Subcategorie: Beton/Metselwerk / Staalname
Lokaal: Gevel Westenlaan / verdieping +3

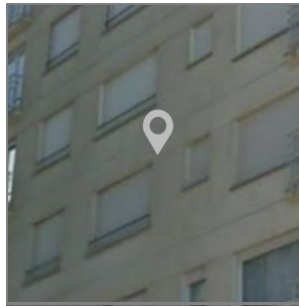
Betondekking + carbonatatie + chloridegehalte

1.19

Gevelbalk. Boorstof. Car 18



Voorgevel 2



Voorgevel 2

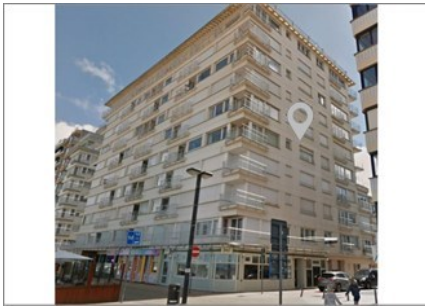
rapport Residentie Trianon - 20-01-25

1.20 Titel: **Betondekking + carbonatatie + chloridegehalte**
Lijst: Betononderzoek gevels
Status: Staalname
Subcategorie: Beton/Metselwerk / Staalname
Lokaal: Gevel Noordzeelaan / verdieping +4

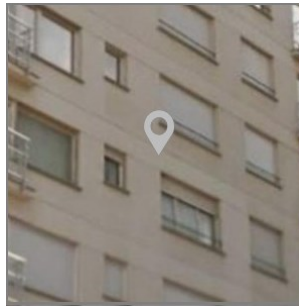
Betondekking + carbonatatie + chloridegehalte

1.20

Gevelbalk. Boorstof. Car 20/15



Voorgevel 1



Voorgevel 1

rapport Residentie Trianon - 20-01-25

1.21 Titel: **Betondekking + carbonatatie + chloridegehalte**
Lijst: Betononderzoek gevels
Status: Staalname
Subcategorie: Beton/Metselwerk / Staalname
Lokaal: Gevel Noordzeelaan / verdieping +8

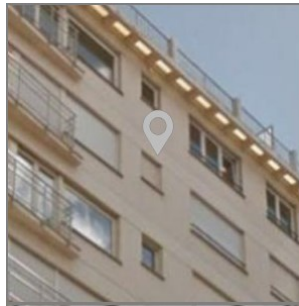
Betondekking + carbonatatie + chloridegehalte

1.21

Gevelbalk. Boorstof. Car 15/12



Voorgevel 1



Voorgevel 1

rapport Residentie Trianon - 20-01-25

1.22 Titel: **Betondekking + carbonatatie + chloridegehalte**
Lijst: Betononderzoek gevels
Status: Staalname
Subcategorie: Beton/Metselwerk / Staalname
Lokaal: Gevel Koning Ridderdijk / verdieping +2

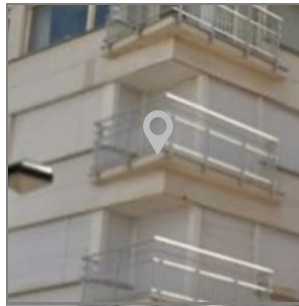
Betondekking + carbonatatie + chloridegehalte

1.22

Onderzijde bovenliggend terras. Boorstof. Car 0



Voorgevel 1



Voorgevel 1

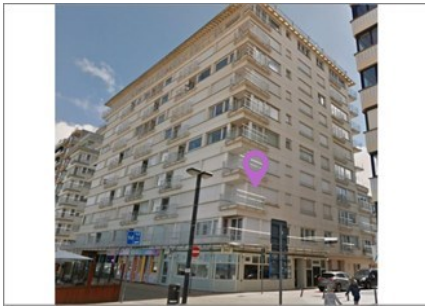
rapport Residentie Trianon - 20-01-25

1.23 Titel: **Betonschade (algemeen)**
Lijst: Betononderzoek gevels
Status: **Betonschade**
Subcategorie: Beton/Metselwerk / Stabiliteit/Integriteit
Lokaal: Gevel Koning Ridderdijk / verdieping +2

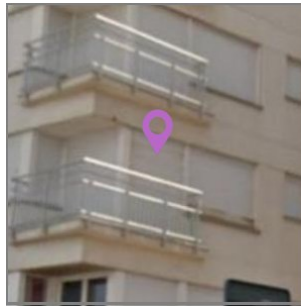
Betonschade (algemeen)

1.23

Roestvlekken op gevelbalk.



Voorgevel 1



Voorgevel 1



rapport Residentie Trianon - 20-01-25

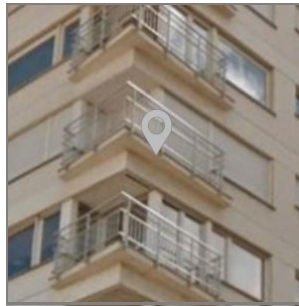
1.24 Titel: **carbonatatie + chloridegehalte**
Lijst: Betononderzoek gevels
Status: **Staalname**
Subcategorie: Beton/Metselwerk / Staalname
Lokaal: Gevel Koning Ridderdijk / verdieping +5
carbonatatie + chloridegehalte

1.24

Onderzijde bovenliggend terras. Boorstof. Betondekking niet mogelijk door regen. Car 10



Voorgevel 1



Voorgevel 1

rapport Residentie Trianon - 20-01-25

1.25 Titel: **Scheuren**
Lijst: Betononderzoek gevels
Status: **Betonschade**
Subcategorie: Beton/Metselwerk / Stabiliteit/Integriteit
Lokaal: Gevel Koning Ridderdijk / verdieping +5

Scheuren

1.25

Dwarse scheuren in onderzijde bovenliggend terras.



Voorgevel 1



Voorgevel 1



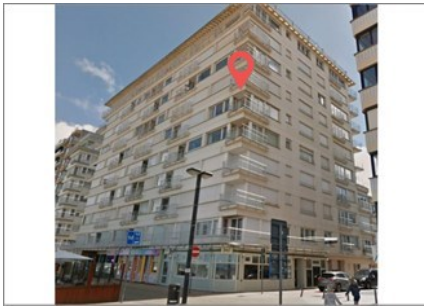
rapport Residentie Trianon - 20-01-25

1.26 Titel: **Bekleding gedegrad**
Lijst: Betononderzoek gevels
Status: **Gebrek/Defect**
Subcategorie: Beton/Metselwerk / Bescherming
Lokaal: Gevel Koning Ridderdijk / verdieping +5

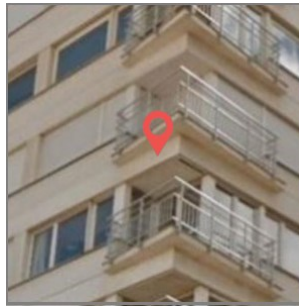
Bekleding gedegrad

1.26

Blaasvorming



Voorgevel 1



Voorgevel 1

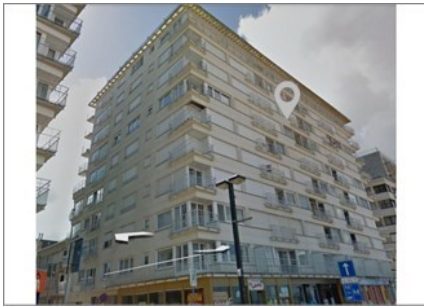


rapport Residentie Trianon - 20-01-25

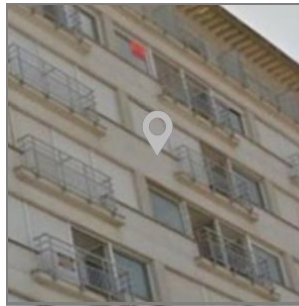
1.27 Titel: **carbonatatie + chloridegehalte**
Lijst: Betononderzoek gevels
Status: **Staalname**
Subcategorie: Beton/Metselwerk / Staalname
Lokaal: Gevel Koning Ridderdijk / verdieping +6
carbonatatie + chloridegehalte

1.27

Gevelbalk. Boorstof. Betondekking niet mogelijk wegens regen. Car 21/14



Voorgevel 2



Voorgevel 2