

Composite Anode CAST³⁺, Composite Quantum Anode CAST^Q & EZ-Anode - Systems applied in CP-Projects

Projects	Description	Year	Size [m ²]	CP-System	Realized by	Location
1 Montpellier - historical monument	Kiosque Bosc	2024	485	CAST ^Q	Blue Spine	Montpellier (F)
2 Groningen - Bezettingslaan 60-106	Beams, columns, plates	2024	600	CAST ^Q	Vogel	Groningen (NL)
3 Groningen - Bezettingslaan 108-154	Beams, columns, plates	2024	600	CAST ^Q	Vogel	Groningen (NL)
4 Aalsmeer - Flora Holland	Bridge deck	2024	400	CAST ^Q	Vogel	Aalsmeer (NL)
5 Hilversum - Insulindeviaduct	Beams	2024	20	CAST ^Q	Vogel	Hilversum (NL)
6 Zandvoort - Duinzicht	Beams, columns	2024	240	CAST ^Q	Vogel	Zandvoort (NL)
7 Haarlem - parking garage Station	Walls	2024	300	CAST ^Q	Vogel	Haarlem (NL)
8 Rotterdam - Stadskantoor	Columns	2024	25	CAST ^Q	Vogel	Rotterdam (NL)
9 Tilburg - parking garage Emmapassage	Floors	2024	560	CAST ^Q	Vogel	Tilburg (NL)
10 Velp - Brugweg	Plates	2023	100	CAST ^Q	Vogel	Velp (NL)
11 Velp - Vianenstraat	Plates	2023	75	CAST ^Q	Vogel	Velp (NL)
12 Hoogezand - Zonneflat	Cantilever beams	2023	566	CAST ^Q	SealteQ	Hoogezand (NL)
13 Den Haag - Sleepnetstraat 302-398	Cantilever beams	2023	300	CAST ^Q	SealteQ	Den Haag (NL)
14 Den Haag - Sleepnetstraat 406-502	Cantilever beams	2023	300	CAST ^Q	SealteQ	Den Haag (NL)
15 Enschede - Parkeergarage Heekplein	Floor	2023	2676	CAST ^Q	SealteQ	Enschede (NL)
16 Abu Dhabi - Al Marya Tower, Parking Deck	Underground Parking Deck: tubbings, liners	2023	6500	CAST ^Q	Structural Technologies ME	Abu Dhabi (VAE)
17 Rotterdam - Parking Deck	Parking Deck: Columns, Soffits, Ceilings	2022	4900	CAST ^Q	Vogel (B)	Rotterdam (NL)
18 Antwerp - Transformation of a historical slaughterhouse into an university campus.	Protection and Realkalisation of Carbonated Concrete of beams and soffits.	2022 - 2023	998	CAST ^Q	Vogel (B)	Antwerp (B)
19 Hamburg - Parkingdeck	Parkingdeck: Pavement coated w Polyurea-MBCC Masterseal Traffic	2023	1200	CAST ^Q	Catodica	Hamburg (D)
20 Aschaffenburg - Parkingdeck	Parkingdeck: Pavement coated w Polyurea-MBCC Masterseal Traffic	2023	3400	CAST ^Q	Catodica	Aschaffenburg (D)
21 Groningen - Pareflat	Cantilever beams, plates	2022	720	CAST ^Q	Vogel	Groningen (NL)
22 Groningen - Saffierflat	Cantilever beams, plates	2022	520	CAST ^Q	Vogel	Groningen (NL)
23 Schiphol - KW57	Beam	2022	110	CAST ^Q	Technobeton	Schiphol (NL)
24 Groningen - Laan van de Vrede 48-68	Beams, columns, plates	2022	600	CAST ^Q	Vogel	Groningen (NL)
25 Krimpen - Zandrak	Cantilever beams, plates	2022	120	CAST ^Q	Vogel	Krimpen aan den IJssel (NL)
26 Nürnberg - Parkingdeck	Carbonated concrete of ceilings, soffits, beams in parking deck	2022	2600	CAST ^Q	Catodica	Nürnberg (D)
27 Berlin - Parkingdeck	Parkingdeck: Pavement coated w Polyurea-MBCC Masterseal Traffic	2021 - 2022	3400	CAST ^Q	Catodica	Berlin (D)
28 Groningen - Laan van de Vrede 111-131	Beams, columns, plates	2021	600	CAST ^Q	CPS	Groningen (NL)
29 Baarn - Sonneveld 1 : 138 t/m 272	Appartement Balconies: 152 cantilever beams	2021	272	CAST ³⁺	CPS	Sonneveld (NL)
30 Baarn - Sonneveld 2 : 274 t/m 408	Appartement Balconies: 152 cantilever beams	2021	408	CAST ³⁺	CPS	Sonneveld (NL)
31 Florida-Keys - Indian Keys	Foundations of Powerline Poles above Sealevel	2021	700	QEZAC	Structural Technologies	Florida Keys (USA)
32 Parking Deck Bad Homburger Höfe	Walls/Floor areas 50 cm, covered with OS8	2019 - 2020	750	CAST ³⁺	iCOR	Bad Homburg (D)
33 17 Highway viaducts in project Liggerkoppen - part 2&3, NL	Beam heads on prestressed beams supporting bridge decks	2019 - 2020	1200	CAST ³⁺	Vogel CP - CPS	Liggerkoppen - East Netherlands (NL)

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34 Zoetermeer - Panamapad	Infrastructure: beams supporting brigde-decks	2020	180	CAST ³⁺	CPS	Zoetermeer (NL)
35 Zandvoort - Keesomstraat 153-271	Appartements: balconies and galleries, stairways	2020	1900	CAST ³⁺	CPS	Zandvoort (NL)
36 Zandvoort - Keesomstraat 277-395	Appartements: balconies and galleries, stairways	2020	1900	CAST ³⁺	CPS	Zandvoort (NL)
37 Zandvoort - Keesomstraat 29-147	Appartements: balconies and galleries, stairways	2020	1900	CAST ³⁺	CPS	Zandvoort (NL)
38 Zandvoort - Keesomstraat 401-519	Appartements: balconies and galleries, stairways	2020	1900	CAST ³⁺	CPS	Zandvoort (NL)
39 Velsen-Zuid - Kunstwerk A22 A208	Infrastructure: beams supporting brigde-decks	2020	480	CAST ³⁺	CPS	Vesen-Zuid (NL)
40 Son en Breugel - Brug Planetlaan	Infrastructure: beams supporting brigde-decks	2020	80	CAST ³⁺	CPS	Son en Breugel (NL)
41 Monnickendam - Lange brug	Infrastructure: columns and beams	2020	95	CAST ³⁺	CPS	Monnickendam (NL)
42 Den Haag - Gradaland 9-163	Cantilever beams in Appartement buildings	2020	170	CAST ³⁺	CPS	Den Haag/NL
43 Den Haag - Elviraland 180-334	Cantilever beams in Appartement buildings	2020	170	CAST ³⁺	CPS	Den Haag/NL
44 Den Haag - Elviraland 10-164	Cantilever beams in Appartement buildings	2020	170	CAST ³⁺	CPS	Den Haag/NL
45 Schiphol Airport - KW41	Infrastructure: Beams supporting Highway Decks	2019	1700	CAST ³⁺	CPS	Schiphol Airport (NL)
46 Appartement Buildings, Rotterdam, NL	2 appartement buildings: galleries, columns and cantilevers; mixed in chlorides	2019	800	CAST ³⁺	Vogel CP - CPS	Rotterdam (NL)
47 Huiswaarder bridge, Alkmaar (NL)	Bearing construction bridge deck	2019	40	CAST ³⁺	Vogel CP - CPS	Alkmaar (NL)
48 Genk BE - Kolenhavenbrug	Bridge Deck (soffit side)	2019	500	CAST ³⁺	CPS	Genk/BE
49 Jetty, MOT, Europoort Rotterdam	Prestressed beams of a heavy load sea jetty	2019	200	CAST ³⁺	Vogel CP - CPS	Europoort Rotterdam (NL)
50 Parking Deck Arab Bank	Basement Ceiling & Soffits	2019	500	SEZAC ⁰	Structural Technologies	Abu Dhabi (VAE)
51 Parking Deck Palm Jumeriah Beach Resort	Basement Ceiling & Soffits	2019	4500	SEZAC ⁰	Structural Technologies	Dubai (VAE)
52 Groningen - N370 Groningerweg	Infrastructure: Wall and Ceiling	2018	80	CAST ³⁺	CPS	Groningen (NL)
53 Kolhorn - Braakbrug	Infrastructure: Wall	2018	176	CAST ³⁺	CPS	Kolhorn (NL)
54 Den Haag - Pisuissestraat	Appartement: balconies and galleries	2018	700	CAST ³⁺	CPS	Den Haag/NL
55 Amsterdam - Pakhuys Afrika	wall in a parking deck	2018	70	CAST ³⁺	CPS	Amsterdam (NL)
56 Appartement Building, Rotterdam, NL	Appartement building: galleries, columns and cantilevers; mixed in chlorides	2018	400	CAST ³⁺	Vogel CP - CPS	Rotterdam (NL)
57 Beringen BE - Sint-Theodarduskerk	Utility/Offices: glass in concrete monumental panels	2018	25	CAST ³⁺	CPS	Beringen (BE)
58 Appartement Buildings, Zandvoort, NL	Appartement Buildings: balconies and galleries exposed to seasalt	2018	450	CAST ³⁺	Vogel CP - CPS	Zandvoort (NL)
59 House / building, Rotterdam, NL	Corroding steel profiles in concrete and mortar; beams and balcony	2018	30	CAST ³⁺	Vogel CP - CPS	Rotterdam (NL)
60 Unilever Headoffice, Rotterdam, NL	Monumental construction (AD 1902): Reinforced beams with corrosion	2018	50	CAST ³⁺	Vogel CP - CPS	Rotterdam (NL)

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61 Hilversum - Mediapark	Parapet (balconies)	2017	620	CAST ³⁺	CPS	Hilversum (NL)
62 Appartement Buildings, Rotterdam, NL	2 appartement buildings: galleries, columns and cantilevers; mixed in chlorides	2017	800	CAST ³⁺	Vogel CP - CPS	Rotterdam (NL)
63 Galleries and balconies in Appartement Building	Appartement Building: Concrete chloride contaminated	2017	1200	CAST ³⁺	Vogel CP - CPS	Groningen (NL)
64 3 Highway viaducts, Naarden	Columns supporting the bridge decks	2017	80	CAST ³⁺	Vogel CP - CPS	Naarden (NL)
65 Parking Deck Rostock	Soffits and Beams Supporting Car Deck	2017	700	CAST ³⁺	Züblin/Icor	Rostock (D)
66 Appartement Buildings, Dordrecht, NL	Appartement Buildings: balconies with mixed in chlorides	2015 - 2016	500	EZA	Vogel CP - CPS	Dordrecht (NL)
67 Parking Deck Freudenstadt	Soffits and Beams Supporting Car Deck	2016	300	CAST ³⁺	Züblin	Freudenstadt (D)
68 Balconies on Appartement Buildings	Appartement Buildings: balconies and cantilevers exposed to seasalt	2016	600	CAST ³⁺	Vogel CP - CPS	Noordwijk (NL)
69 Gallery Appartement Building	Appartement Building: gallery exposed to seasalt	2015	1100	CAST ³⁺	Vogel CP - CPS	Noordwijk (NL)
70 2 Highway viaducts, Den Bosch, NL	Prestressed decks and abutments supporting the bridge decks	2015	400	CAST ³⁺	Vogel CP - CPS	Den Bosch (NL)
71 Highway viaduct, Amstelveen, NL	Prestressed pilar supporting bridge decks; solar powered	2015	200	CAST ³⁺	Vogel CP - CPS	Amstelveen (NL)
72 24 Highway viaducts in project Liggerkoppen, NL	Beam heads on prestressed beams supporting bridge decks; solar powered	2013 - 2014	1500	CAST ³⁺	Vogel CP - CPS	Liggerkoppen, East Netherlands (NL)
73 8 Highway viaducts, in project Liggerkoppen, NL	Abutments supporting bridge decks; solar powered	2013 - 2014	400	CAST ³⁺	Vogel CP - CPS	Liggerkoppen East Netherlands (NL)
74 Parking Deck Rheinfelden	Soffits in Parking Deck in Entrance Area	2014	400	CAST ³⁺	Züblin	Rheinfelden (D)
75 3 Highway viaducts, Amstelveen, NL	Abutments and prestressed beamheads supporting bridge decks; solar powered	2014	250	CAST ³⁺	Vogel CP - CPS	Amstelveen (NL)
76 Bicycle bridge, Voorburg, NL	Prestressed beams and abutments supporting the bridge deck; solar powered	2014	80	CAST ³⁺	Vogel CP - CPS	Voorburg (NL)
77 Utrechts Medisch Centrum (UMC)	Parking Deck - 2	2014	1250	CAST ³⁺	CPS/Hemubo	Utrecht (NL)
78 Appartement Buildings, Zandvoort, NL	Appartement Buildings: balconies exposed to seasalt	2014	200	EZA	Vogel CP - CPS	Zandvoort (NL)
79 4 Highway viaducts, Amsterdam, NL	Abutments supporting bridge decks; solar powered	2013	150	CAST ³⁺	Vogel CP - CPS	Amsterdam (NL)
80 6 Highway viaducts in project Liggerkoppen, NL	Beam heads on prestressed beams supporting bridge decks	2012	400	CAST ³⁺	Vogel CP - CPS	Liggerkoppen - East Netherlands (NL)
81 Zwembad Overbosh, Den Haag	Concrete walls and beams of the pool basins	2012	600	CAST ³⁺	Vogel CP - CPS	Den Hague (NL)
82 Alplgrabenbrücke	Galvanic corrosion protection of abutement of a road bridge	2012	17	EZA	TeeragAsdag	Alplgraben, Styria (A)
83 Zwembad Dukdalf, Brielle	Concrete walls and beams of the pool basins	2011	500	CAST ³⁺	CPS/ECO ReMain/Vogel CP	Brielle (NL)
84 Steel Pickling Line, Tata Steel in IJmuiden,	Concrete walls and floor of the final part of the steel pickling line	2011	450	CAST ³⁺	CPS/ECO ReMain/Vogel CP	Tata Steel Plant in IJmuiden (NL)
85 Appartement Buildings, Zandvoort, NL	Appartement Buildings: balconies and beams exposed to seasalt	2011	650	CAST ³⁺	CPS/Vogel CP	Zandvoort (NL)
86 Testinstallation at the main parking garage Saas Fee	Parking Deck, reinforced with prestressed steel wires	2011	30	EZA	SIKA CH	Saas Fee (CH)
87 Swimming-Pool on the Roof of Appartement Buildings	Swimming-Pool: wall and ceilings	2010	300	CAS-T ⁺	CPS/Vogel CP	1140 Wien (A)

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88 Danube Riverside Highway A22, Highway Bridges BW 2134 & 2136	Abutments, Columns, Walls, Dual Anode System (Ti-Ribbonmesh/CAS-T+)	2010	980	CAS-T ⁺ , Ti-Ribbon-Mesh	Zeiss Chemie	1121 Wien (A)
89 De Meernbrug Steel Bridge, Abutments	Galvanic corrosion protection of abutments	2010	200	EZA	CPS/ECO ReMain/Vogel CP	Utrecht (NL)
90 Swimming-Pool on the Roof of Appartement Buildings	Swimming-Pool: wall and ceilings	2009	300	CAS-T ⁺	Zeiss Chemie	1140 Wien (A)
91 Balconies on Appartement Buildings	Appartement Buildings: balconies and beams exposed to seasalt	2008	1600	CAS-T ⁺	CPS/ECO ReMain/Vogel CP	Scheveningen (NL)
92 Balconies on Appartement Buildings	Appartement Buildings: balconies and beams exposed to seasalt	2008	700	CAS-T ⁺	CPS/ECO ReMain	Zandvoort (NL)
93 Balconies on Appartement Buildings	Appartement Buildings: balconies and beams exposed to seasalt	2008	600	CAS-T ⁺	CPS/ECO ReMain	Bussum (NL)
94 Hubertusviaduct' abutments and beams below bridge bearings	Galvanic corrosion protection of abutments and beams	2008	90	EZA	CPS/ECO ReMain/Vogel CP	Den Hague (NL)
95 Alpine Road Bridge, Styria, Austria	Galvanic corrosion protection of bridge deck, abutment, cantilever	2007	50	EZA	STRABAG	Alplgraben, Styria (A)
96 Highway Bridge, A23, St. Marx	CP of frequently wetted concrete members - abutment, beams, cantilever	2006	300	CAS-T ⁺	Ferropan	1030 Vienna (A)
97 EPE - Appartement Building, Balconies	Appartement Buildings: balconies and beams exposed to seasalt	2006	250	CAS-T ⁺	CPS/Vogel CP	ASSEN (NL)
98 EPE - Appartement Building, Balconies	Appartement Buildings: balconies and beams exposed to seasalt	2006	250	CAS-T ⁺	CPS/ECO ReMain	Assen (NL)
99 Appartements Katwijk, Balconies	Appartement Buildings: balconies and beams exposed to seasalt	2005	600	CAS-T ⁺	CPS/ECO ReMain	Katwijk (NL)
100 Appartement Weststraat, Scheveningen	Appartement Buildings: balconies and beams exposed to seasalt	2005	450	CAS-T ⁺	CPS/ECO ReMain/Vogel CP	Scheveningen (NL)
101 Appartement Molenijsserstraat, Scheveningen	Appartement Buildings: buttresses exposed to seasalt	2005	50	CAS-T ⁺	CPS/ECO ReMain/Vogel CP	Scheveningen (NL)
102 Utrechts Medisch Centrum (UMC)	Parking Deck - 1	2005	1250	CAS-T ⁺ , Ti-Net	CPS/ECO ReMain	Utrecht (NL)
103 Gallery in Appartement Buildings	Appartement Buildings: Balconies exposed to seasalt	2004	700	CAS-T ⁺	CPS/ECO ReMain	Groningen (NL)
104 Balconies on Appartement Buildings	Appartement Buildings: balconies and beams exposed to seasalt	2004	250	CAS-T ⁺	CPS/ECO ReMain	Delft (NL)
105 Balconies on Appartement Buildings	Appartement Buildings: balconies and beams exposed to seasalt	2004	400	CAS-T ⁺	CPS/ECO ReMain	Den Hague (NL)
106 Cruquius Bridge	Bridge Deck: deck, columns, walls	2004	480	CAS-T ⁺	CPS/ECO ReMain	Haarlem (NL)
107 3 Polder Bridges	Bridge Deck, solar powered	2003	200	CAS-T ⁺	CPS/Vogel CP	Demmerik, Gagelweg (NL)
108 ORF, Austrian Radio and TV Center	Parking Deck	2002 - 2007	2500	CAS-T ⁺ , galv. Zn-anode	Ferropan	Vienna (A)
109 Prüfanstalt Hartl GmbH	Austrian Road Research Association - Research Project	2002 - 2004	6	CAS-T ⁺ , galv. Zn-anode, Ti-mesh	CAS	Vienna (A)
110 Talbrücke Uttrichshausen, A7	Highway Bridge: hollow box girders	2002	400	CAS-T ⁺ , Ti-Ribbon-Mesh	Torkret	Fulda (D)
111 Lieserschucht-brücke, A10	Highway Bridge: beams, columns, cantilever, arch	2001	700	CAS-T ⁺ , 3M-Zinhydrogel, TiOx-discrete	Ferropan	Spittal a. Drau (A)
112 Haugenstua	Parking Deck	1998	2500	CAS-T ⁺	Coating AS	Oslo (N)