

REFERENCES & SYSTEM DESCRIPTIONS OF ZINGA® APPLICATIONS ON HOT-DIP

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UNIQUE CHARACTERISTICS AND ADVANTAGES OF ZINGA

ZINGA is in fact much more effective than any other existing anti-corrosion system. This efficiency is based on a number of unique characteristics and advantages, as explained in the following summary.

- 1. ZINGA protects the metal against rust in two ways: an <u>active</u>, <u>cathodic</u>, <u>galvanic protection</u> due its high zinc content and a <u>passive barrier protection</u> due to the zinc salt on top of the surface, and due to the binder in ZINGA that reduces the disintegration of the zinc.
- 2. The <u>application of ZINGA is very easy</u>. It can be painted onto the surface with a brush, a roll or painting gloves. It can also be sprayed with a pistol, and it can be applied in a bath. There is no need for sophisticated equipment that can only be found in a workshop. ZINGA can be applied on site, even by non-professionals.
- 3. ZINGA can be applied in <u>a wide range of weather conditions</u>. ZINGA can be applied on a <u>damp surface</u> (but not on drops of water). Humidity can even intensify the cathodic action and accelerate the formation of the zinc salts on the surfaces that offer the barrier protection. ZINGA can be applied <u>at very high or low temperatures</u> (up to 45°C or 113°F and down to -15°C or 5°F).
- 4. ZINGA can be applied <u>on a non-contaminated rusty surface</u>. Once the loose particles have been removed, ZINGA will attach itself perfectly onto the surface.
- 5. The <u>surface preparation can be reduced to a minimum</u>: the metal must be <u>clean (free from dirt, grease, oil, salts, paint, and mill scale) and rough.</u> It is not always necessary to grit-blast the metal first.
 - Application on bare metal: Mostly grit-blasting is necessary, but in some cases the substrate already has the required roughness degree due to former grit-blasting or due to corrosion.
 - Application on top of hot-dip galvanisation: Old and corroded hot-dip only needs to be cleaned and already has the required roughness degree. New hot-dip can be treated in order to obtain the required roughness.
 - Application on an old ZINGA layer: When ZINGA is applied on an old ZINGA layer, then the surface just needs to be cleaned.
- 6. ZINGA is always applied under ambient temperatures, so that delicate metal structures cannot be deformed. Even dipping is done in ambient temperature. No energy is wasted to warm up ZINGA, which is necessary for hot-dip galvanisation wherefore you need temperatures up to 620 °C.
- 7. ZINGA has a <u>quick drying time</u>. A new layer of ZINGA can be applied after 1 hour. Topcoats can be applied after 4 to 24 hours, depending on layer thickness and atmospheric conditions.
- 8. ZINGA <u>does not peel off and is not brittle</u>. In case of mechanical damage the ZINGA layer will be compressed or squashed, but it will not crack due to its flexibility.
- 9. One of the most decisive advantages of using ZINGA is that the zinganisation system <u>can be</u> <u>recharged</u>. Each new layer of ZINGA blends perfectly with the previous one. Additional layers all blend to one single, homogeneous ZINGA layer. There is no risk for accumulation of layers that are different in structure, which could cause peeling off. You cannot distinct different layers, as is the case with galvanising by hot-dip. Moreover, this capacity of recharging reduces the surface preparation to an absolute minimum. Other coating systems, for instance with paints, demand an elaborate and often expensive surface preparation before the application of a new layer.



10. This property of recharging can be of use if you still have to do some drilling or welding on the surface, or if the structures still have to be transported. In that case the first layer is meant as a primer. It <u>can intercept possible damages</u>. Even welding is possible on top of ZINGA. Afterwards, the final layer of ZINGA can be applied and local damages can be repaired. The new layer makes the former layer liquid again and the result is one homogeneous ZINGA layer. When there is no need to recoat the whole structure, you can apply a small quantity of ZINGA on the damaged spots and the whole structure is free from rust again. Repairs will be invisible after a certain time.

Information

- 11. Structures that have been <u>metallised or galvanised by hot-dip</u> will begin to rust after a certain period. Such worn-out and damaged structures can also be <u>recharged by ZINGA</u>.
- 12. ZINGA has a <u>zinc content of 96 % in the dry layer</u>. The zinc is pure to 99.995 %. In order to obtain a real cathodic protection you need at least 92 % of zinc in the dry layer. That is scientifically proven. The so-called zinc-rich paints do not meet this condition.
- 13. Moreover ZINGA is <u>based on protected zinc</u>. The zinc particles are protected by a special resin that allows the formation of the galvanic couple, but that also gives an additional protection. Therefore protection with ZINGA is a superior alternative for galvanisation by hot-dip.
- 14. The <u>zinc granules have been specially shaped</u> so that they have a bigger contact surface through which they can attach to one another. For your information: the zinc used in ZINGA is made by the Belgian company Umicore, well-known all over the world, since they are the number 1 manufacturer in the world of these atomised zinc dust pigments, further electronically prepared for Zingametall. This atomisation process provides unique qualities and a very high zinc purity. This is also one of the reasons why ZINGA does not have one single true competitor in the world.
- 15. ZINGA is uniquely characterised by the fact that it sacrifices itself or that it is "consumed". Together with the quality of not peeling off, this results in the <u>depletion</u> of each applied layer: between 2 15 μm per year depending on the environmental conditions. This is an important factor in <u>monitoring</u> the application and the evaluation of the lifetime of the system. Hence, it is a true benefit in terms of maintenance and budget scheduling.
- 16. With ZINGA, a <u>customized and personal solution</u> can be offered. Customers are not always in need of a long term corrosion protection or don't have the budget for it. In case of a limited budget and desired protection time of for instance only 5 7 years, the layer thickness can be reduced and this will have an effect on the price per m². In other words: ZINGA is the <u>most</u> "flexible" customized solution.
- 17. ZINGA can be topcoated by a large number of compatible paints. Such duplex systems will more than double the lifetime of ZINGA. In order to reinforce the duplex qualities of the ZINGA system a topcoat can be applied. We can supply you with different compatible paints: epoxy, polyurethane, vinyl and especially developed micaceous iron oxides, the so-called M.I.O.'s. These paints can be applied directly on ZINGA. The lifetime of a duplex system, which is the combination of an active and a passive protection system, is not equal to the sum of the lifetimes of these systems, but it is more than double of this sum.
- 18. These topcoats can be bought from the same supplier. You just need to speak to one contact person and only that one company can be held responsible for the total application.
- 19. ZINGA is composed of <u>non-toxic</u> elements according to European Standards and can be used in contact with potable water (BS 6920).
- 20. ZINGA is <u>heat resistant</u> up to 120°C. ZINGA can also intercept occasional and short <u>thermal shocks</u> up to 150°C.



Information

- 21. ZINGA has <u>fire retardant</u> properties. Moreover, ZINGA is used <u>as primer in the fire resistant system Euroflam</u>: ZINGA, topcoated with the intumescent paint Aquaflam EX and the finishing layer Alkyd RS. This system is the most unique fire protection system in the world. The intumescent paint Aquaflam EX foams up when it is heated. The foam forms an isolation barrier and protects the steel from heat and flames.
- 22. a) ZINGA has an unlimited pot and shelf life.
 - b) ZINGA is a one component coating.



OVERVIEW OF MAIN REPORTS OF TESTS PERFORMED WITH ZINGA

to download the actual reports, please visit www.zinga.eu

ZINGA quality label

SGS Systems & Services Certification (Belgium)

Certificate ISO 9001 for quality management

The company Zingametall has implemented a quality management system that is based on the standard ISO 9001. Hereby we commit ourselves to strive for continuous improvement and customers' satisfaction.

(http://www.iso.org/iso/iso catalogue/catalogue tc/catalogue detail.htm?csnumber=46486)

British Board of Agrément (BBA) (United Kingdom)

BBA certificate n° 03/4047

After thorough evaluation (effect on water quality, fire propagation, surface spread of flame, welding, resistance to abrasion, weathering, etc.) ZINGA received the approval from the BBA, which is the UK's major approval body for new construction products and installers. The BBA, in collaboration with SGS Coating Services, carries out regular inspections of the manufacturing process of ZINGA. This includes all the procedures involved with the production and the control of the delivered raw materials as well as of the quality of the final product. Traceability of the delivered product is assured by means of a specimen of each production batch.

(http://www.bbacerts.co.uk/)

Australian Paint Approval Scheme (APAS) (Australia)

APAS certificate n° 0180

After a thorough research of test reports, applications in Australia and a visit to the factory in Belgium, Zingametall BVBA was acknowledged as a recognized manufacturer by the APAS.

"APAS (Australian Paint Approval Scheme) is the largest and most widely recognized paint scheme in the world".

(http://www.apas.gov.au/index.asp)

NATO Approval (International)

Manufacturer's n°: BE0421689088; NSN for ZINGA: 8030131137027

In 1989 Zingametall received a Manufacturer's card and a NATO Stock Number for ZINGA. A NATO Stock Number is recognised as a stock number of the armies of the member states. Every product that is accepted by the NATO can be used by all the armies of the NATO member states without the necessity or obligation to test the product again.

(http://www.nato.int/structur/ac/135/ncs_guide/english/e_1-6-5.htm)

Engineers India Limited (India)

Based on reports, test certificates from independent European and Chinese test organisations combined with other information documents, the 'Engineers India Limited' sees ZINGA as an effective protective coating system in various corrosive environments.

They state that ZINGA would be a 'better replacement' for inorganic zinc silicates and hot dip galvanisation.

(http://engineersindia.eil.co.in/)

London Underground (United Kingdom)

ZINGA has been accepted by the 'London Underground' for use as a protective system on ferrous metals and as alternative to hot-dip galvanisation or metallisation. They sent us this Certificate after extensive study of existing documents in combination with doing tests on ZINGA's behaviour in contact with fire themselves.

(http://www.tfl.gov.uk/corporate/modesoftransport/1574.aspx)



Reports

www.zinga.be

ZINGA galvanic protection

ISO 12944-6 (COT nv) (Netherlands)

Test according to the ISO 12944-6 standard

ZINGA applied in 2 layers of each 90µm DFT got the classification:

C5I-High/C5M-High

and Im2-Medium/Im3-Medium.

ZINGA applied in 2 layers of each 60µm DFT got the classification:

C5I-Medium/C5M-Medium or C4-High.

and Im2-Medium/Im3-Medium.

NORSOK Certificate (COT nv) (Netherlands)

Test according to the NORSOK standard M-501, rev. 5, system 7

ZINGA has passed the 4200 hours seawater immersion test and the 4200 hours cyclic test without any formation of rust, blisters, cracks, flakes or cathodic disbondment. The pull-off adhesion test on ZINGA resulted in values of more than 7MPa.

Det Norske Veritas (DNV) (Norway)

Ballast Tank test

ZINGA was applied on blast-cleaned test panels that were placed in a ballast tank filled with sea water with wave movement and cyclic heating. Other test panels were placed in a condensation chamber. No corrosion of the steel substrate could be demonstrated. Based on the results of the testing, ZINGA meets the requirements of a B3 classification. In the report is stated that ZINGA has a beneficial corrosion protective performance.

Field test (Sintef) (Norway)

ZINGA duplex system compared to TSZ/TSA

This report gives the field test results of visual inspection of the panels after 5 years marine atmospheric exposure started in September 2002 and terminated in May 2008. The system that was tested was ZINGA + Alufer N + Alufer WR and performed excellently compared to systems based on TSZ/TSA (metallisation).

Bodycote Materials Testing (United Kingdom)

Cathodic Disbondment test

ZINGA applied at 60 µm DFT was exposed during 26 weeks at -1,0 volt. The results was no cathodic disbondment at all.

Potential Performance Test (Netherlands)

Determining the galvanic protection

The results showed active behavior of this film (-1114mV using Cu/CuSO₄). This means that it will provide cathodic protection to damaged, uncoated or improperly coated metal surfaces.

Trial protection of Crevices on Młyńskie bridges in Wrocław (Poland)

Crevice Corrosion field test

On the basis of an agreement between IBDiM in Warsaw and The Administration of Roads and Local Services in Wrocław trial application tests of various systems for the protection of crevices on Młyńskie Bridges in Wrocław were conducted.

Upon this test ZINGA was approved for use on bridges in Poland.

ZINGA in comparison with hot-dip galvanisation

University of Ghent (RUG) (Belgium)

Measurement of the short circuit current flow of ZINGA in comparison to hot-dip

In this test (based on electro-chemical measurements) is demonstrated that ZINGA offers cathodic protection equal to that of hot-dip.



Reports

BNF Fulmer Research Centre (United Kingdom)

Electrochemical tests on ZINGA in comparison to hot-dip

The open circuit voltage and galvanic current between the galvanising layers and the bare steel were measured. The conclusion of the report is that ZINGA offers galvanic protection to steel comparable to that offered by hot-dip galvanisation. In other words: a layer of ZINGA is a completely metallic layer exactly like a hot-dip galvanising layer, and will behave as such in all aspects. Moreover, this test demonstrated that the corrosion rate of ZINGA is 1/3 of the corrosion rate of hot-dip galvanising under similar (immersion) conditions.

Forschungs- und Materialprüfungsanstalt Baden-Württemberg (FMPA) (Germany)

Different tests on the efficiency of ZINGA in comparison to hot-dip: potential measurement and short circuit current measurement

In this test is demonstrated that the electrochemical behaviour of ZINGA is similar to that of a hot-dip layer.

South African Bureau of Standards (SABS) (South Africa)

Salt spray test on ZINGA in comparison to hot-dip (loss in weight)

In this test is demonstrated that the loss in weight of ZINGA is 1/10 of the loss in weight of hot-dip galvanising after a 400 hours salt spray test. The layer thickness of ZINGA diminishes because ZINGA is being consumed, contrary to a paint that will start to peel off after a certain period of time. This illustrates the fundamental difference between a paint and a galvanising system.

Direction Départementale de l'Equipement – Service Maritime de la Vendée (France)

Field test on the efficiency of ZINGA in comparison with hot-dip on sea buoys

Two buoys (one treated with ZINGA, the other one hot-dip galvanised) have floated in the Atlantic Ocean for four years. After those four years, the buoy treated with ZINGA showed no trace of rust while the hot-dip galvanised buoy was severely corroded in several places.

ZINGA on rebars

Steel Authority of India (India)

Measurement of corrosion rate by salt spray and immersion tests

A comparison was made between uncoated steel rebars, fusion bonded epoxy coated rebars (FBEC), hot-dip galvanised rebars (HDG) and zinganised rebars (ZINGA). The corrosion rate per year was measured after immersion and salt spray. This test demonstrated several advantages of ZINGA: the greater degree of galvanic protection, the lower sacrificial zinc consumption due to the dispersion of zinc dust in the binder and the additional barrier protection created by the binder.

→ ZINGA > FBEC > HDG > Uncoated

Jadavpur University (India)

Different tests on the efficiency of ZINGA in comparison with other coatings on rebars A comparison was made between uncoated steel (Mild steel and Stainless steel) rebars, fusion bonded epoxy coated rebars (FBEC), hot-dip galvanised rebars (HDG) and zinganised rebars (ZINGA). The salt spray test pointed out that the zinganised rebars have a corrosion resistance that is about 2 times higher than that of hot-dip galvanised rebars. ZINGA is also least susceptible for stress corrosion cracking.

→ in NACE solution: ZINGA > HDG > FBEC > Stainless steel > Mild steel

Amirkabir University Poly Technic Tehran (Iran)

Different tests on the efficiency of ZINGA in comparison with uncoated rebars

The zinganised rebars passed the 500 hours salt spray test without formation of rust, peeling or blistering, not even in places where the coating was mechanically damaged. The rebars that were not zinganised were heavily corroded.



Reports

www.zinga.be

Bend test at B-Holding (Belgian Railways)

Bend test of ZINGA in layer thickness around 70µm DFT over different diameters

The zinganised plates were bended over different diameters (ISO 1519).

ZINGA showed no traces of cracks when the plate was bended over diameter 20mm. If bended over smaller diameters (down to 10mm), cracks were visible, but ZINGA didn't come off which is one of the biggest differences with paints and hot-dip galvanisation.

University of Ghent (Belgium)

Pull-out test on zinganised rebars

A pull-out test was performed to evaluate the influence of a ZINGA layer on the bond strength of the rebar with the concrete. The conclusion was that coating with ZINGA does not negatively affect this.

Adherence of concrete to zinganised rebars at B-Holding (Belgian Railways)

Adherence of concrete to zinganised rebars

The conclusion of the report is:

It is clearly more difficult to cleave the rebar bloc containing the steel rod protected by Zinga. The adherence of the concrete to the steel rod is better. The actual cleavage happens in the concrete.

Other tests on ZINGA

* Reports concerning health

National Institute of Public Health (Poland)

Use of ZINGA on the inside of potable water storage tanks

Conclusion is:

ZINGA is approved for covering the inner surfaces of steel containers designed to store potable water.

Water regulations Advisory Scheme (United Kingdom)

Test on the influence of ZINGA on water quality

These tests were performed according to the standard BS 6920 to determine whether or not the quality of potable water is affected when it is in contact with a ZINGA layer. The water was analysed on taste, appearance, growth of micro organisms, extraction of harmful substances and extraction of metals. The obtained results complied with the requirements and ZINGA was found suitable for contact with potable water.

EDF - Gaz De France (France)

Toxicological advise

A positive toxicological advise was written and distributed in the company EDF-Gaz De France concerning the national use of ZINGA.

❖Reports concerning reliquification

University of Ghent (Belgium)

Test on how successive ZINGA layers blend with each other

This test demonstrates that a newly applied ZINGA layer makes the former layer liquid again so that both layers blend together to one single homogeneous layer. The new layer recharges the old one. The ZINGA film galvanising system is very easy to maintain and to recharge: there is no need for grit-blasting, contrary to the surface preparation that is required when a traditional paint has been used.

Stangers Consulting Engineers and Scientists (United Kingdom)

Tests a.o. how successive ZINGA layers blend with each other

ZINGA is easy to apply by brush and resoftens caked Zinga or dry Zinga films as claimed by the manufacturer. This property enables ZINGA to be built up into thick composite layers avoiding the discrete films achieved with conventional coatings.

Their end conclusion was: It is evident that the product has special properties which place it, as far as we know, into a unique category.



* Report on the surface spread of flames

Reports

SGS Yarsley Technical Services (United Kingdom)

Test on the fire propagation on ZINGA

The results of the test according to the BS 476: part 6 show that ZINGA has a class 0 surface. ZINGA did not ignite during exposure to heating.

Reports concerning friction coefficient

KTA-TATOR (United States of America)

Test on the friction coefficient of ZINGA

The slip coefficient of ZINGA applied at 100µm DFT is 0,52.

China National Construction Steel Quality Supervision and Test Center (China)

Test on the friction coefficient of ZINGA

The slip coefficient of ZINGA applied on steel plates and bolts, ranges from 0,54 to 0,67.

* Report concerning weldability

University of Ghent (Belgium)

Test on the influence of ZINGA on welding steel

A set of 3 x 2 plates, covered with a layer of Zinga, the thickness of which was respectively 15 μ m DFT, 40 μ m DFT and 60 μ m DFT.

After a polymerisation period of seven days the two plates covered with the same coating thickness were welded together by hand.

The conclusion was:

None of the 3 specimens shows any deficiency, neither in the welding seams nor in the steel itself.



OVERVIEW AVAILABLE REFERENCES

Please find hereafter an overview of our references. Some of the references are enclosed. All other mentioned references can be obtained upon request.

Reference structure:

First letter: ISO letter of the country of the ZINGA application

Following letters: Theme references

FI: Finland (country)
AG: Agriculture (theme)
FO: Food (theme)
Cattle and Pigfarm: Title of the reference

1. COW SHED BEAMS - BELARUS 2. DAIRY FARM VITEBSK - BELARUS 3. MARTENS DIRK - AGRICULTURAL MACHINERY - BELGIUM 4. CATTLE- AND PIGFARM - FINLAND 5. GRAIN SILOS NADOR CEREALES - MOROCCO 6. YUZHNY GREENHOUSE FARM - RUSSIA 7. KENSINGTON PALACE SUNKEN GARDENS - UNITED KINGDOM 8. EDEN GREENHOUSE DOME - UNITED KINGDOM 1. FENCE SUNNY EUROPE - BELGIUM 2. RENOVATION SCHOOL SAINT-JOSEPH - LEVIS QUEBEC 3. BY-AG-Cow Shed 4. BY-AG-Cow Shed 4. BY-AG-Cow Shed 4. BY-AG-Dairy farm 4. BE-AG-OL-TE-Martens 4. BE-AG-OL-TE-Martens 4. BE-AG-OL-TE-Martens 4. BE-AG-OL-TE-Martens 4. BE-AG-OL-TE-Martens 4. CATTLE- AND PIGFARM - RIVERS 5. GRAIN SILOS NADOR CEREALES - MOROCCO 6. YUZHNY GREENHOUSE FARM - RUSSIA 7. KENSINGTON PALACE SUNKEN GARDENS - UNITED KINGDOM 8. EDEN GREENHOUSE DOME - UNITED KINGDOM 9. BE-AL-CR-HD-HT-TP-Eden 9. BY-AG-Cow Shed 9. BY-AG-Cow Shed 9. BE-AG-OL-TE-Martens 9. B	
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2. RENOVATION SCHOOL SAINT-JOSEPH – LEVIS QUEBEC CA-AL-AM-HD-Saint-Joseph	[,] Europe
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3. SEOUL AIR CONDITIONING – SOUTH KOREA KR-AL-PI-Seoul Air Conditio	ning
4. HIGHWAY DEPARTMENT - THAILAND TH-AL-Highway Department	
AM: Historical and recreational buildings	
1. MUSEUM HOTEL IN WENDAKE - QUEBEC CA-AM-CO-Wendake	
2. BIRD'S NEST - CHINA CN-AM-Bird's Nest	
3. GENT - KIOSK – BELGIUM BE-AM-CO-OL-Gent Kiosk	
4. METRO – MINSK – BELARUS BY-AM-LT-TC-Metro	
5. RENOVATION SCHOOL SAINT-JOSEPH – LEVIS QUEBEC CA-AL-AM-HD-Saint-Joseph	h
6. PARLIAMENT BUILDING - QUEBEC CA-AM-Parliament Building	Quebec
7. EGLISE SAINTE THERESE – CHURCH – CANADA CA-AM-Eglise Sainte Thérè	se
8. WALT DISNEY – HONG KONG CN-AM-TE-Walt Disney HK	
9. NATIONAL GRAND THEATRE BEIJING - CHINA CN-AM-MA-Theatre Beijing	
10. OHENE DJAN SPORT STADIUM LIGHT POLES - GHANA GH-AM-HD-PY-OheneDjan-	Stadium
11. KENSINGTON PALACE SUNKEN GARDENS – UNITED KINGDOM UK-AG-AM-CI-TP-Kensingto Sunken Gardens	on Palace
12. ROYAL TRAIN SHED – UNITED KINGDOM UK-AM-CI-RoyalTrainShed	
13. ZIMBALI CONDOMINIUM – WORK OF ART – SOUTH AFRICA ZA-AM-Zim Condomin	

	<u>AP</u> : Airports	
1.	GUANGZOU NEW BAIYUN AIRPORT - CHINA	CN-AP-HD-Baiyun
2.	DÜSSELDORF - AIRPORT - GERMANY	DE-AP-CO-HD-OL-TE-Düss.Airport
3.	MUMBAI DOMESTIC AIRPORT - INDIA	IN-AP-Mumbai Domestic airport
4.	SUVARNABHUMI – AIRPORT - THAILAND	TH-AP-DI-SuvarnabhumiAirport



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	AR: Armies and military organisations		
1.	NATO – NATO PUMP STATIONS - BELGIUM	BE-AR-OL-PI-TE-NATO	
2.	BELGIAN ARMY - NAVY SHIPS AND ANTENNA - BELGIUM	BE-AR-OL-PY-SH-Belgian Army	
3.	USNS ZEUS CABLESHIP - USA	CA-AR-MA-HD-SH-USNS Zeus Cableship	
4.	POLES ARMY TENTS - UNITED KINGDOM	UK-AR-DI-Poles Army Tents	
5.	US ARMY - ARMY VEHICLES - UNITED STATES OF AMERICA	US-AR-HD-OL-TE-TR-US Army	
6.	MISSISSIPPI DEPARTMENT OF TRANSPORTATION BILOXI BRIDGE – UNITED STATES OF AMERICA	US-AR-BR-TE-MDOT	
7.	NEXRAD TOWER – UNITED STATES OF AMERICA	US-AR-PY-Nexrad Tower	

AS: Automatic spraying lines

8.	REBAR SPRAYING INSTALLATION TEHRAN HARA - IRAN	IR-AS-RE-AutomSprayLine
	AZ: Aquazinga	
1.	FLOREAC – COAL FUNNEL – BELGIUM	BE-AZ-HT-OL-Floreac
2.	CARSID - BELGIUM	BE-AZ-HT-OL-TE-Carsid
3.	J.M. INDUSTRIAL – RACKS, METAL EQUIPMENT AND STRUCTURES IN BRICK MANUFACTURING FACTORIES- BELGIUM	BE-AZ-CE-HU-OL-TE-JM Ind
4.	YUEHAI PASSAGE TRAIN FERRY PIER TERMINAL - CHINA	CN-AZ-MA-RW-YuehaiTrainFerry
5.	SULTAM - CHIMNEY - ISRAEL	IL-AZ-HT-OL-Sultam
6.	DERBY – TURBINE EXHAUST STACKS - UNITED KINGDOM	UK-AZ-HT-OL-TE-Derby
7.	PORT ELISABETH ELECTRICITY DEPARTMENT - FUEL TANKS AND EXHAUST – SOUTH AFRICA	ZA-AZ-HT-TA-Port.El
	BR: Bridges	
1.	MOLISSON STREET BRIDGE- AUSTRALIA	AU-BR-Molisson Street Bridge
2.	QUEENSLAND RAILWAY BRIDGES - AUSTRALIA	AU-BR-RW-QR Railway Bridges
3.	REYNELLA BRIDGE - AUSTRALIA	AU-BR-TC-Reynella Bridge
4.	EUROPEAN TECHNICAL ASSOCIATION FOR PROTECTIVE COATINGS - BELGIUM	BE-BR-OL-TE-ETAPC
5.	DE BRANDT – FENDER CONSTRUCTIONS - BELGIUM	BE-BR-IM-OL-De Brandt
6.	MELLE BRIDGE - BELGIUM	BE-BR-OL-TC-Melle Bridge
7.	GENT - KEIZER BRIDGE - BELGIUM	BE-BR-CR-OL-Keizer Bridge
8.	WEGENFONDS BRIDGE - BELGIUM	BE-BR-OL-Wegenfonds
9.	RUMST BRIDGE – BELGIUM	BE-BR-Rumst Bridge
10.	RAILWAY OFFICE - BENIN	BJ-BR-OL-RW-Chemins Fer
11.	DR QUESNELL BRIDGE EDMONTON CANADA	CA-BR-Dr Quesnell Bridge Edmonton
12.	CONFEDERATION BRIDGE - CANADA	CA-BR-OL-Confederatie
13.	BC FERRY TERMINALS - CANADA	CA-BR-MA-OL-TE-BC Ferry
14.	OVERLANDER BRIDGE - CANADA	CA-BR-OL-TE-Overlander
15.	HANGZHOU BAY BRIDGE - CHINA	CN-BR-RE-Hangzou Bay
16.	BLANICE RIVER BRIDGE – CZECH REPUBLIC	CZ-BR-OL-Blanice
17.	EL SALAAM BRIDGE - EGYPT	EG-BR-MA-PI-TE-Salaam
18.	AUTOMATED PARKING SYSTEMS SILODAM AMSTERDAM – NETHERLANDS	NL-BR-CO-Automated Parking Systems Silodam Amsterdam
19.	KALVOYA BRIDGE - NORWAY	NO-BR-MA-OL-TE-Kalvoya
20.	BRIDGE GIRDERS – POLAND	PL-BR-Girders
21.	FOOTBRIDGES AND PROTECTION BARRIERS BYDGOSZEZ - POLAND	PL-BR-CR-Bydgoszez
22.	RENOVATION OF THE SIERKIERKOWSKI BRIDGE IN WARSAW, NATIONAL ROAD- POLAND	PL-BR-CR-Sierkierkowski Bridge



Ref.: Referenties/2. Overzichtslijsten Referenties/Overview references-EN/15/07/11

BE-CO-Duferco

BE-CO-Lafaut

BE-CO-OL-SE Industries

BE-CO-EL-OL-TE-Tractebel



5.

6.

7.

8.

DUFERCO – A SHELTER – BELGIUM

LAFAUT – PRIVATE HOME FAMILY JOY – BELGIUM

TRACTEBEL - POWER STATION - BELGIUM

SE INDUSTRIES - CONSTRUCTION AND ENGINEERING - BELGIUM

23.	ST PAUL – JETTY – REUNION	RE-BR-MA-St. Paul
24.	TEMVAR BRASOV BRIDGE – ROMANIA	RO-BR-PI-Temvar Brasov Bridge
25.	NEWARK MARINA BRIDGE - UNITED KINGDOM	UK-BR-OL-Newark Mar.
26.	TAXI BERTH BRIDGE IN CARDIFF BAY - UNITED KINGDOM	UK-BR-Taxi Berth
27.	MISSISSIPPI DEPARTMENT OF TRANSPORTATION BILOXI BRIDGE – UNITED STATES OF AMERICA	US-AR-BR-TE-MDOT

	BW: Breweries		
1.	KBL LTD – BREWERY - BOTSWANA	BW-BW-KBL	
	CE: Cement factories and brick manufacturing companies		
1.	HOLCIM GRANULATS - CEMENT FACTORY - BELGIUM	BE-CE-OL-TE-Holcim	
2.	J.M. INDUSTRIAL – RACKS, METAL EQUIPMENT AND STRUCTURES IN BRICK MANUFACTURING FACTORIES- BELGIUM	BE-AZ-CE-HU-OL-TE-JM Ind.	
3.	PAESEN - CONCRETE MILL - BELGIUM	BE-CE-TA-Paesen	
4.	SCHWENK – CEMENT FACTORY - GERMANY	DE-CE-OL-TE-Schwenk	
5.	SIAM CEMENT - THAILAND	TH-CE-SiamCement	
6.	THE INFRASTRUCTURE OF THE COMPANY LAFARGE – SOUTH AFRICA	ZA-CE-OL-Lafarge	
	<u>CI</u> : Cast iron		
1.	DULLE GRIET - CANNON – BELGIUM	BE-CI-TC-Dulle Griet	
2.	DE GIEY - THE FENCE OF THE CASTLE - BELGIUM	BE-CI-CR-OL-De Giey	
3.	KLEIN KASTEELKEN – CAST IRON FENCE - BELGIUM	BE-CI-CR-OL-TC-Klein Kasteelken	
4.	TEATRO MUNICIPAL - BRAZIL	BR-CI-CO-TC-Teatro	
5.	FOUNTAINS IN PEOPLE'S PARK - DUBLIN – IRELAND	IE-CI-Fountains	
6.	KENSINGTON PALACE SUNKEN GARDENS – UNITED KINGDOM	UK-AG-AM-CI-TP-Kensington Palace Sunken Gardens	
7.	ROYAL TRAIN SHED – UNITED KINGDOM	UK-AM-CI-RoyalTrainShed	
	<u>CN</u> : Cranes		
1.	ANTWERP - PORT CRANES – BELGIUM	BE-CN-OL-Antwerp Port Cranes	
2.	HARBOUR OF GENK – BELGIUM	BE-CN-OL-TE-KHG	
3.	MENGE – THE TOWER CRANE OF THE COMPANY MENGE, SPECIALISED IN RENOVATION OF CHIMNEYS - BELGIUM	BE-CN-Menge	
4.	PACIFIC GRAIN ELEVATOR - CANADA	CA-CN-MA-Pacific Grain Elevator	
5.	OFFICE TOGOLAIS DES PHOSPHATES PHOSPHATE MINE OFFSHORE - CHARGING CRANES - TOGO	TG-CN-MA-OL-PE-Off.Togolais	
	<u>CO</u> : Construction and engineer	ing	
1.	GENT - KIOSK - BELGIUM	BE-AM-CO-OL-Gent Kiosk	
2.	DENDERMONDE - BACOB BANK – BELGIUM	BE-CO-OL-Bacob	
3.	CNO – A COOLING TOWER - BELGIUM	BE-CO-OL-CNO	
4.	BLANKENBERGE - PARAVENT – BELGIUM	BE-CO-CR-MA-OL-Paravent	

2.

SUVARNABHUMI – AIRPORT - THAILAND

Ref.: Referenties/2. Overzichtslijsten Referenties/Overview references-EN/15/07/11

TH-AP-DI-SuvarnabhumiAirport

		www.zinga.be
9.	METAL CONSTRUCTIONS – VAN HEE - BELGIUM	BE-CO-Van Hee
10.	MAKO BETON - RACKS - BELGIUM	BE-CO-Mako Beton
11.	OPMETAAL - CHASSIS - BELGIUM	BE-CO-Opmetaal
12.	TEATRO MUNICIPAL - BRAZIL	BR-CI-CO-TC-Teatro
13.	ROHR – BUILDING INDUSTRY (SCAFFOLDING, TUBES,) - BRAZIL	BR-CO-Rohr
14.	TECHNICAL FAIR - BULGARIA	BG-CO-TE-TechnFair
15.	MUSEUM HOTEL IN WENDAKE - QUEBEC	CA-AM-CO-Wendake
16.	METRO VANCOUVER SKYTRAIN – CANADA	CA-CO-Metro Vancouver Skytrain
17.	DÜSSELDORF - AIRPORT - GERMANY	DE-AP-CO-HD-OL-TE-Düss.Airport
18.	SCHALKE 04 – FOOTBALL STADION - GERMANY	DE-CO-Schalke
19.	ZDF TELEVISION BROADCASTING STATION – CONSTRUCTION -GERMANY	DE-CO-OL-ZDF
20.	JEAN D'HUART - STEEL SUPPLIER AND APPLICATOR - FRANCE	FR-CO-D'Huart
21.	LE MANS CENTRE OF SPORTS AND CULTURE STEEL CONSTRUCTION FRANCE	FR-CO-OL-Le Mans
22.	RENAULT - CAR MANUFACTURING COMPANY - FRANCE	FR-CO-OL-TE-TR-Renault
23.	DUBLIN HOME – IRELAND	IE-CO-DublinHome
24.	MINISTRY OF PUBLIC WORKS – KUWAIT	KW-CO-Ministry of Public Works
25.	VENTILATION PIPES - MOROCCO	MA-CO-Ventilation shaft
26.	AUTOMATED PARKING SYSTEMS SILODAM AMSTERDAM - NETHERLANDS	NL-BR-CO-Automated Parking Systems Silodam Amsterdam
27.	CONTAINERS AND METAL GIRDERS - POLAND	PL-CO-TA-ZREMB
28.	LONDON - CARDINAL PLACE - UNITED KINGDOM	UK-CO-Cardinal Place
29.	EXXARO KUMBA GROOTGELUK COALMINE – SOUTH AFRICA	ZA-CO-TE-UN-Kumba Mine
	CR: Crash barriers, metal sheet walls, railir	igs and fences
1.	FENCE SUNNY EUROPE – BELGIUM	BE-AL-CR-HD-Fence Sunny Europe
2.	BLANKENBERGE - PARAVENT – BELGIUM	BE-CO-CR-MA-OL-Paravent
3.	ANTWERP - CRASH BARRIERS – BELGIUM	BE-CR-OL-Antwerp
4.	INTERCOMMUNALE E3 - METAL CONSTRUCTIONS - BELGIUM	BE-CR-OL-TE-Intercomm.
5.	CALLUWAERTS - FENCE – BELGIUM	BE-CR-Calluwaerts
6.	CHIMAY – SIGN OVER THE HIGHWAY - BELGIUM	BE-CR-Chimay
7.	DE GIEY – THE FENCE OF THE CASSTLE - BELGIUM	BE-CI-CR-OL-De Giey
8.	SLAUGHTERHOUSE CHARLEROI - BELGIUM	BE-CR-FO-HD-LT-OL-TE-Abattoir Charleroi
9.	HERAS – A FENCE – BELGIUM	BE-CR-OL-Heras
10.	GENT - KEIZER BRIDGE - BELGIUM	BE-BR-CR-OL-Keizer Bridge
11.	KLEIN KASTEELKEN – CAST IRON FENCE - BELGIUM	BE-CI-CR-OL-TC-Klein Kasteelken
12.	ZEEBRUGGE - UNDERGROUND CROSSING - BELGIUM	BE-CR-OL-Zeebrugge
13.	NO-PARKING POSTS BRUSSELS	BE-CR-TC-Amsterdammertjes Stad Brussel
14.	ECOVIAS – CRASH BARRIERS - BRAZIL	BR-CR-Ecovias
15.	DÜSSELDORF HIGHWAY - CRASH BARRIERS - GERMANY	DE-CR-OL-TE-Düss.Highway
16.	CRASHBARRIERS ON OUM RABII BRIDGE - MOROCCO	MA-CR-Bridge D'Oum Rabii
17.	CRASH BARRIERS - TROST – THE NETHERLANDS	NL-CR-Trost
18.	FOOTBRIDGES AND PROTECTION BARRIERS BYDGOSZEZ - POLAND	PL-BR-CR-Bydgoszez
19.	RENOVATION OF THE SIERKIERKOWSKI BRIDGE IN WARSAW, NATIONAL ROAD- POLAND	PL-BR-CR-Sierkierkowski Bridge
20.	LAND TRANSPORT AUTHORITY - GUARD RAIL PANELS - SINGAPORE	SG-CR-OL-Land Transport Authority
	DI: Dipping	
1		DE DI Compo
1.	CAMPA – STEEL PANELS - BELGIUM	BE-DI-Campa

AU-HD-HU-IM-UN-Culverts



2.

CULVERTS - AUSTRALIA

References

		www.zinga.be
3.	POLES ARMY TENTS - UNITED KINGDOM	UK-AR-DI-Poles Army Tents
4.	DURAPIPE STEEL PRODUCTION - SOUTH AFRICA	ZA-DI-OL-Durapipe steel production
	DS: Do-it Yourself	
	EL: Electricity, Power stations	
	ALCOA LTD - AUSTRALIA	
1. 2.	TRANSEND NETWORKS - AUSTRALIA	AU-EL-HD-LT-PY-Alcoa AU-EL-PY-TE-Transend Networks
	TRANSGRID NETWORKS - NEW SOUTH WALES	
3.		AU-EL-PY-Transgrid Networks
4. 5.	TRACTEBEL – POWER STATION - BELGIUM FURNAS – ELECTRICITIY PYLONS - BRAZIL	BE-CO-EL-OL-TE-Tractebel BR-EL-PY-TE-Furnas
 6.	CONTRACTOR - TURBINES - CHINA	CN-EL-CWTW
 7.	KRASIKOV TRANSFORMER STATION - CZECH REPUBLIC	CZ-EL-OL-PY-Krasikov
8.	SLAVETICE TRANSFORMER STATION – CZECH REPUBLIC	CZ-EL-OL-1 1-Masikov CZ-EL-PY-Slavetice
9.	TEMELIN NUCLEAR POWER PLANT - CZECH REPUBLIC	CZ-EL-1 1-Glavelice CZ-EL-OL-Temelin
10.	RWE - AG - ELECTRICITY COMPANY - GERMANY	DE-EL-OL-TE-RWE
11.	PLN HIGH TENSION PYLONS – INDONESIA	ID-EL-HD-PY-PLN High Tension Pylons
12.	TRANSFORMERS – SOUTH KOREA	KR-EL-Transformers
13.	TRASH RACKS POWER PLANT – SOUTH KOREA	KR-EL-IM-MA-TC-Trash rack
14.	TRACITIAGNOT OWERT EART - SOUTH NOREA	KW-EL-OL-TE-Ministry of Electricity and
	MINISTRY OF ELECTRICITY AND WATER – KUWAIT	Water
15. 	NATIONAL GRID CORPORATION PHILIPPINES – PHILIPPINES	PH-EL-HD-PY-National Grid Corporation Philippines
16.	SANTA RITA BALFOUR BEATTY – PHILIPPINES	PH-EL-HD-PY-Santa Rita Balfour Beatty
17.	REDE ELECTICA NACIONAL POWER STATIONS AND SUPPLY LINES - PORTUGAL	PT-EL-OL-PY-TE-REN
18.	ENERGOPROJECT - TRANSMISSION TOWERS - QATAR	QA-EL-OL-PY-TE-Energo
19.	ELECTRICA - NATIONAL ELECTRICITY SUPPLIER - ROMANIA	RO-EL-OL-TE-Electricia
20.	ARAD POWER STATION - ROMANIA	RO-EL-PY-Arad
21.	GLOW ENERGY PUBLIC COMPANY MONOPOLES - THAILAND	TH-EL-HD-PY-Glow Energy Public Company Monopoles
22.	FORMOSA PLASTICS COMPANY TRANSMISSION TOWERS - TAIWAN	TW-EL-HD-PY-TE-Formosa
23.	POWER COMPANY – POWER PYLONS - TAIWAN	TW-EL-HD-OL-PY-TE-TPC
24.	POWER PLANTS - TAIWAN	TW-EL-TC-ZC-Power Plants
25.	CHERNOBYL NUCLEAR POWER STATION - UKRAINE	UA-EL-Chernobyl
26.	KIEV ENERGO POWER PLANT - UKRAINE	UA-EL-HD-PY-Kiev Energo
27.	ZUYEVSKAYA THERMAL POWER PLANT - UKRAINE	UA-EL-Zuyevskaya
	<u>FO</u> : Food	
1.	SLAUGHTERHOUSE CHARLEROI - BELGIUM	BE-CR-FO-HD-LT-OL-TE-Abattoir Charleroi
2.	SLAUGHTERHOUSES - BELGIUM	BE-FO-OL-Goossens
3.	IGLO OLA – METAL STRUCTURES - BELGIUM	BE-FO-Iglo Ola
4.	DOSSCHE – CATTLE FEED TANKS - BELGIUM	BE-FO-TA-Dossche
5.	QUARTES CATTLE FEED COMPANY - BELGIUM	BE-FO-HD-OL-TA-TE-Quartes
6.	VERDEGEM CATTLE FEED COMPANY - BELGIUM	BE-FO-TE-Verdegem
7.	CATTLE- AND PIGFARM - FINLAND	FI-AG-FO-HD-Cattle and Pig farm
8.	SLAUGHTERHOUSE NÎMES MARCHE GARE - FRANCE	FR-FO-Nîmes
	HD: Applications on Hot-Dip	
1.	ALCOA LTD - AUSTRALIA	AU-EL-HD-LT-PY-Alcoa

BE-HU-PE-TA-TE-BASF



3.

BASF - CHEMICAL COMPANY - BELGIUM

		www.zinga.be
3.	FENCE SUNNY EUROPE – BELGIUM	BE-AL-CR-HD-Fence Sunny Europe
4.	SLAUGHTERHOUSE CHARLEROI – BELGIUM	BE-CR-FO-HD-LT-OL-TE-AbattoirCharleroi
5.	QUARTES CATTLE FEED COMPANY - BELGIUM	BE-FO-HD-OL-TA-TE-Quartes
6.	DE LIJN – PYLONS – BELGIUM	BE-HD-OL-PY-RW-De Lijn
7.	SILOS DE COCK – BELGIUM	BE-HD-TA-De Cock
8.	SILO'S DUBO DEUREN – ERPE-MERE	BE-HD-TA-Silo's Dubo Deuren
9.	RENOVATION SCHOOL SAINT-JOSEPH – LEVIS QUEBEC	CA-AL-AM-HD-Saint-Joseph
10.	USNS ZEUS CABLESHIP - USA	CA-AR-MA-HD-SH-USNS Zeus Cableship
11.	MINISTRY OF TRANSPORT - QUEBEC	CA-HD-TE-Ministry of transport
12.	GUANGZOU NEW BAIYUN AIRPORT - CHINA	CN-AP-HD-Baiyun
13.	CHONGQING BROADCASTING COMPANY - CHINA	CN-HD-PY-Chong Broad
14.	DÜSSELDORF AIRPORT - GERMANY	DE-AP-CO-HD-OL-TE-Düss. Airport
15.	CATTLE- AND PIGFARM - FINLAND	FI-AG-FO-HD-Cattle and Pigfarm
16.	DIRECTION DEPARTEMENTALE DE L'EQUIPEMENT, VENDEE SEA BUOYS – FRANCE	FR-HD-IM-MA-OL-TE-Sea Buoys
17.	ZINGA ANTICORROSION DISTRIBUTOR - FRANCE	FR-HD-TE-Guerin
18.	OHENE DJAN SPORT STADIUM LIGHT POLES - GHANA	GH-AM-HD-PY-OheneDjanstadium
19.	PLN HIGH TENSION PYLONS – INDONESIA	ID-EL-HD-PY-PLN High Tension Pylons
20.	GRAIN SILOS NADOR CEREALES – MOROCCO	MA-AG-HD-TA-Grain Silos Nador Cereales
21.	TENAGA NASIONAL BERHAD - PYLONS - MALAYSIA	MY-HD-PY-Tenaga Nasional Berhad
22.	PHCN - POWER HOLDING COMPANY OF NIGERIA - NIGERIA	NG-HD-PY-PHCN
23.	NATIONAL GRID CORPORATION PHILIPPINES – PHILIPPINES	PH-EL-HD-PY-National Grid Corporation Philippines
24.	SANTA RITA BALFOUR BEATTY – PHILIPPINES	PH-EL-HD-PY-Santa Rita Balfour Beatty
25.	YUZHNY GREENHOUSE FARM - RUSSIA	RU-AG-HD-Yuzhny
26.	GLOW ENERGY PUBLIC COMPANY MONOPOLES - THAILAND	TH-EL-HD-PY-Glow Energy Public Company Monopoles
27.	LIGHT POLES - DON MUANG TOLL WAY - THAILAND	TH-HD-PY-Don Muang Toll
28.	FORMOSA PLASTICS COMPANY TRANSMISSION TOWERS - TAIWAN	TW-EL-HD-PY-Formosa
29.	POWER COMPANY – POWER PYLONS - TAIWAN	TW-EL-HD-OL-PY-TE-TPC
30.	EDEN GREENHOUSE DOME – UNITED KINGDOM	UK-AG-HD-HT-TP-Eden
31.	CULVERTS – UNITED KINGDOM	UK-HD-HU-IM-UN-Culverts
32.	KIEV ENERGO POWER PLANT - UKRAINE	UA-EL-HD-PY-Kiev Energo
33.	US ARMY -UNITED STATES OF AMERICA	US-AR-HD-OL-TE-TR-US Army
34.	LIGHT POLES, TERMINAL CUENCA DEL PLATA, PORT OF MONTEVIDEO, URUGUAY	UY-HD-PY-Katoennatie Light Pole
	HT: High temperatures	
1.	FLOREAC – COAL FUNNEL – BELGIUM	BE-AZ-HT-OL-Floreac
2.	CARSID - BELGIUM	BE-AZ-HT-OL-TE-Carsid
3.	SULTAM - CHIMNEY - ISRAEL	IL-AZ-HT-OL-Sultam
1.	DERBY - TURBINE EXHAUST STACKS - UNITED KINGDOM	UK-AZ-HT-OL-TE-Derby
5.	EDEN GREENHOUSE DOME – UNITED KINGDOM	UK-AG-HD-HT-TP-Eden
6.	PORT ELISABETH ELECTRICITY DEPARTMENT - FUEL TANKS AND EXHAUST – SOUTH AFRICA	ZA-AZ-HT-TA-Port.El.
	<u>HU</u> : Humidity and vapour	
1.	CULVERTS - AUSTRALIA	AU-HD-HU-IM-UN-Culverts
2.	J.M. INDUSTRIAL – RACKS, METAL EQUIPMENT AND STRUCTURES IN BRICK MANUFACTURING FACTORIES - BELGIUM	BE-AZ-CE-HU-OL-TE-JM Ind.
		DE DE TA TE DAGE



Maintenance	4.	GREENHOUSE - FINLAND	FI-HU-TP-Greenhouse
IM: Immersion I. CULVERTS - AUSTRALIA AU-HD-HL-MA-UN-Culverts BE-BRANDT - FENDER CONSTRUCTIONS - BELGIUM BE-BRANDD - FENDER CONSTRUCTIONS - BELGIUM BE-BRANDD - FENDER CONSTRUCTIONS - BELGIUM BE-BRANDD - FENDER - BRANDD - B	5.		
1. CULVERTS - AUSTRALIA 2. DIE BRANDT - FENDER CONSTRUCTIONS - BELGIUM 3. DIRECTION DEPARTEMENTALE DE L'EQUIPEMENT, VENDEE SEA BUDYS - FR-HD-IM-MA-OL-TE-Sea Buoys FRANCE 4. BANGOR PIER - IMMERSED PILES : IRELAND 5. KILLYSEGS FISHING PIER - IMMERSED PIER LEGS - IRELAND 6. KILLYSEGS FISHING PIER - IMMERSED PIER LEGS - IRELAND 6. KILLYSEGS FISHING PIER - IMMERSED PIER LEGS - IRELAND 6. KILLYSEGS FISHING PIER - IMMERSED PIER LEGS - IRELAND 7. TRASH RACKS POWER PLANT - SOUTH KOREA 8. SEA BUOYS - SENEGAL 8. NH-MA-TC-Trash Track 8. SEA BUOYS - SENEGAL 9. CULVERTS - UNITED KINGDOM 10. K-HD-HU-IM-UN-Culverts 11. ALCOA LTD - AUSTRALIA 12. SLAUGHTERHOUSE CHARLEROI - BELGIUM 13. BONNETS OF SRC BUNDES - BELGIUM 14. BE-CH-FO-LT-OL-TE-Abation Charleroi 15. BLANKENBERGE - PARAVENT - BELGIUM 16. BE-CH-FO-LT-OL-TE-Abation Charleroi 17. BLANKENBERGE - PARAVENT - BELGIUM 18. BLANKENBERGE - PORTON BRAZIL 19. BLONKENBERGE - PORTON BRAZIL 20. BLONKENBERGE - PORTON BRAZIL 21. BLONKENBERGE - PORTON BRAZIL 22. BLONKENBERGE - PORTON BRAZIL 23. BLONKENBERGE - PORTON BRAZIL 24. DEFICION BRAZIL - REPRESEDATION BRAZIL 25. BLONKENBERGE - PORTON BRAZIL 26. BLONKENBERGE - PORTON BRAZIL 27. PACIFIC GRAIN ELEVATOR - CANADA 28. CARAMA-PE-SIGUROR 29. PARAVENCE 20. PARAMA-TE-SIGUROR 20. PARAMA-TE-SIGUROR 20. PARAMA-TE-SIGUROR 20. PARAMA-TE-S			
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16. TRASH RACKS POWER PLANT – SOUTH KOREA KR-EL-IM-MA-TC-Trash rack MA-MA-PE-TA-Shell MA-MA-PI-ONE NO-BR-MA-OL-TE-Kalvoya RE-BR-MA-St. Paul SI-DAUL – JETTY – REUNION RE-BR-MA-St. Paul SI-DAUL – SENEGAL SIN-MA-Sea Buoy MA-MA-Sea Buoy MA-MA-OL-PE-Off. Togolais MA-MA-OL-PE-Off. Togolais	14.	BANGOR PIER – IMMERSED PILES - IRELAND	IE-IM-MA-Bangor
17. SHELL TANK - MOROCCO 18. NATIONAL ELECTRICITY COMPANY - MOROCCO 19. SHELL - PETROCHEMICAL COMPANY - NETHERLANDS 19. KALVOYA BRIDGE - NORWAY 19. ST. PAUL – JETTY – REUNION 19. ST. PAUL – JETTY – REUNION 19. SEA BUOYS - SENEGAL 20. SEA BUOYS - SENEGAL 21. ST. PAUL – JETTY – REUNION 22. SEA BUOYS - SENEGAL 23. STATIONARY DOCK - SENEGAL 24. OFFICE TOGOLAIS DES PHOSPHATES PHOSPHATES PHOSPHATE MINE OFFSHORE CHARGING CRANES - TOGO 25. YACHT WATER TANKS - UNITED KINGDOM 26. VACHT WATER TANKS - UNITED KINGDOM 27. MA-OL-Adela	15.	KILLYBEGS FISHING PIER - IMMERSED PIER LEGS - IRELAND	IE-IM-MA-TE-Killybegs pier
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22. SEA BUOYS - SENEGAL SN-IM-MA-Sea Buoy SN-MA-Dry Dock SN-MA-Dry Dock TG-CN-MA-OL-PE-Off. Togolais PHOSPHATE MINE OFFSHORE CHARGING CRANES - TOGO VACHT WATER TANKS - UNITED KINGDOM UK-MA-OL-Adela	20.	KALVOYA BRIDGE - NORWAY	NO-BR-MA-OL-TE-Kalvoya
23. STATIONARY DOCK - SENEGAL 24. OFFICE TOGOLAIS DES PHOSPHATES PHOSPHATE MINE OFFSHORE CHARGING CRANES - TOGO 25. YACHT WATER TANKS - UNITED KINGDOM SN-MA-Dry Dock TG-CN-MA-OL-PE-Off. Togolais UK-MA-OL-Adela	21.	ST. PAUL – JETTY – REUNION	RE-BR-MA-St. Paul
24. OFFICE TOGOLAIS DES PHOSPHATES PHOSPHATE MINE OFFSHORE CHARGING CRANES - TOGO 25. YACHT WATER TANKS - UNITED KINGDOM UK-MA-OL-Adela	22.	SEA BUOYS - SENEGAL	SN-IM-MA-Sea Buoy
PHOSPHATE MINE OFFSHORE CHARGING CRANES - TOGO 25. YACHT WATER TANKS - UNITED KINGDOM UK-MA-OL-Adela	23.	STATIONARY DOCK - SENEGAL	SN-MA-Dry Dock
	24.		TG-CN-MA-OL-PE-Off.Togolais
26. OFFSHORE COMPANIES – UNITED KINGDOM UK-MA-Offshore	25.	YACHT WATER TANKS - UNITED KINGDOM	UK-MA-OL-Adela
	26.	OFFSHORE COMPANIES – UNITED KINGDOM	UK-MA-Offshore

Ref.: Referenties/2. Overzichtslijsten Referenties/Overview references-EN/15/07/11

www.zinga.be

27. SHIPS - UNITED KINGDOM UK-MA-SH-Ships

VECTOR INTERNATIONAL – OFFSHORE NUTS AND BOLTS – UNITED KINGDOM 28. UK-MA-NB-PE-TE-Vector

NB: Nuts and bolts

VECTOR INTERNATIONAL – OFFSHORE NUTS AND BOLTS – UNITED KINGDOM 1.

UK-MA-NB-PE-TE-Vector

	<u>OL</u> : Applications ≥ 10 yea	ars
1.	DIRK – AGRICULTURAL MACHINERY– BELGIUM	BE-AG-OL-TE-Martens
2.	GENT KIOSK - BELGIUM	BE-AM-CO-OL-GentKiosk
3.	NATO – NATO PUMP STATIONS - BELGIUM	BE-AR-OL-PI-TE-NATO
4.	BELGIAN ARMY - NAVY SHIPS AND ANTENNA - BELGIUM	BE-AR-OL-PY-SH-Belgian Army
5.	CARSID - BELGIUM	BE-AZ-HT-OL-TE-Carsid
6.	FLOREAC – COAL FUNNEL - BELGIUM	BE-AZ-HT-OL-Floreac
7.	EUROPEAN TECHNICAL ASSOCIATION FOR PROTECTIVE COATINGS - BELGIUM	BE-BR-OL-TE-Etapc
8.	DE BRANDT - BELGIUM	BE-BR-IM-OL-DeBrandt
9.	MELLE BRIDGE - BELGIUM	BE-BR-OL-TC-Melle Bridge
10.	WEGENFONDS BRIDGE - BELGIUM	BE-BR-OL-Wegenfonds
11.	HOLCIM GRANULATS - CEMENT FACTORY - BELGIUM	BE-CE-OL-TE-Holcim
12.	J.M. INDUSTRIAL - BELGIUM	BE-AZ-CE-HU-OL- TE-JM-Ind
13.	DE GIEY - BELGIUM	BE-CI-CR-OL-De Giey
14.	KLEIN KASTEELKEN – CAST IRON FENCE - BELGIUM	BE-CI-CR-OL-TC-Klein Kast.
15.	ANTWERP PORT CRANES - BELGIUM	BE-CN-OL-AntwerpPortCranes
16.	HARBOUR OF GENK - BELGIUM	BE-CN-OL-TE-KHG
17.	BACOB BANK DENDERMONDE - BELGIUM	BE-CO-OL-Bacob
18.	CNO - A COOLING TOWER - BELGIUM	BE-CO-OL-CNO
19.	BLANKENBERGE PARAVENT – BELGIUM	BE-CO-CR-MA-OL-Paravent
20.	SE INDUSTRIES - BELGIUM	BE-CO-OL-SE Industries-
21.	SLAUGHTERHOUSE CHARLEROI - BELGIUM	BE-CR-FO-LT-OL-TE-AbattoirCharleroi
22.	HERAS - A FENCE - BELGIUM	BE-CR-OL-Heras
23.	INTERCOMMUNALE E3 - METAL CONSTRUCTIONS - BELGIUM	BE-CR-OL-TE-Intercomm
24.	KEIZER BRIDGE GHENT - BELGIUM	BE-BR-CR-OL-Keizer Bridge
25.	ZEEBRUGGE UNDERGROUND CROSSING - BELGIUM	BE-CR-OL-Zeebrugge
26.	TRACTEBEL – POWER STATION - BELGIUM	BE-CO-EL-OL-TE-Tractebel
27.	SLAUGHTERHOUSES - BELGIUM	BE-FO-OL-Goossens
28.	CATTLE FEED COMPANY - BELGIUM	BE-FO-HD-OL-TA-TE-Quartes
29.	DECLOEDT – DREDGING COMPANY - BELGIUM	BE-MA-OL-TE-Decloedt
30.	TOTAL PETROCHEMICAL FELUY - PIPELINES - BELGIUM	BE-OL-PE-PI-TE-Fina
31.	WOLF OIL CORPORATION - BELGIUM	BE-OL-PE-TA-Wolf oil
32.	ASSOCIATION COMPANY OF PRODUCTION OF ELECTRICITY - S.P.EBELGIUM	BE-OL-PI-TE-SPE
33.	KLUIZEN WATER PURIFICATION STATION - BELGIUM	BE-OL-PI-TC-Kluizen
34.	PIT COAL MINE - BELGIUM	BE-OL-PI-UN-Kemp.Steenk
35.	STORA ENSO PAPER MILL - BELGIUM	BE-OL-PP-TE-Stora Enso
36.	PUBLIC FOUNTAIN IN GHENT - BELGIUM	BE-OL-PW-TC-TE-Gent fount.
37.	ELECTRABEL - BELGIUM	BE-OL-PY-Electrabel
38.	DE LIJN – PYLONS - BELGIUM	BE-HD-OL-PY-RW-De Lijn
39.	CITA – RAILWAY WAGON - BELGIUM	BE-OL-RW-TE-CITA
40.	DREDGING COMPANIES DECLOEDT - BELGIUM	BE-OL-SH-TE-Dredging



41.	NARAI – SAILING SHIP - BELGIUM	BE-OL-SH-TE-Narai
42.	DE GRAEVE SHIPYARDS - BELGIUM	BE-OL-SH-TC-TE-De Graeve
43.	MERCATOR – SAILING SHIP - BELGIUM	BE-OL-SH-TC-Mercator
44.	WESTHINDER – LIGHTSHIP - BELGIUM	BE-OL-SH-TC-Westhinder
45.	RAILWAY OFFICE - BENIN	BJ-BR-OL-RW-Chemins Fer
46.	CONFEDERATION BRIDGE - CANADA	CA-BR-OL-Confederation
47.	BC FERRY TERMINALS - CANADA	CA-BR-MA-OL-TE-BC Ferry
48.	OVERLANDER BRIDGE - CANADA	CA-BR-OL-TE-Overlander
49.	BLANICE RIVER BRIDGE - CZECH REPUBLIC	CZ-BR-OL-Blanice
50.	KRASIKOV TRANSFORMER STATION - CZECH REPUBLIC	CZ-EL-OL-PY-Krasikov
51.	TEMELIN NUCLEAR POWER PLANT - CZECH REPUBLIC	CZ-EL-OL-Temelin
52.	DÜSSELDORF AIRPORT - GERMANY	DE-AP-CO-HD-OL-TE-Düss.Airport
53.	SCHWENK – CEMENT FACTORY - GERMANY	DE-CE-OL-TE-Schwenk
54.	ZDF TELEVISION BROADCASTING STATION - GERMANY	DE-CO-OL-ZDF
55.	DÜSSELDORF HIGHWAY - CRASH BARRIERS - GERMANY	DE-CR-OL-TE-Düss. Highway
56.	RWE - AG - ELECTRICITY COMPANY - GERMANY	DE-EL-OL-TE-RWE
57.	STROM UND HAUFENBAU HAMBURG HARBOUR COMPAGNY - GERMANY	DE-OL-PE-TA-TE-Strom
58.	LE MANS CENTRE OF SPORTS AND CULTURE STEEL CONSTRUCTION - FRANCE	FR-CO-OL-Le Mans
59.	RENAULT - CAR MANUFACTURING COMPANY - FRANCE	FR-C0-OL-TE-TR-Renault
60.	DIRECTION DEPARTEMENTALE DE L'EQUIPEMENT - FRANCE	FR-HD-IM-MA-OL-TE-Sea Buoys
61.	SOCIETE NATIONALE DE CHEMINS DE FER - FRANCE	FR-OL-RW-TE-SNCF
62.	SULTAM - CHIMEY - ISRAEL	IL-AZ-HT-OL-Sultam
63.	ABADAN & SHIRAZ REFINERIES - IRAN	IR-OL-PE-TE-Abadan Shiraz
64.	MINISTRY OF PUBLIC WORKS - KUWAIT	KW-CO-OL-TE-Ministry of Public Works
65.	MINISTRY OF ELECTRICITY AND WATER - KUWAIT	KW-EL-OL-TE-Ministry of Electricity and Water
66.	KALVOYA BRIDGE - NORWAY	NO-BR-MA-OL-TE-Kalvoya
67.	RYSTRAUM MOTOR SHIP - NORWAY	NO-OL-SH-TE-Rystraum
68.	REDE ELECTICA NACIONAL - PORTUGAL	PT-EL-OL-PY-TE-REN
69.	ENERGOPROJECT – TRANSMISSION TOWERS - QATAR	QA-EL-OL-PY-TE-Energo
70.	ELECTRICA - NATIONAL ELECTRICITY SUPPLIER - ROMANIA	RO-EL-OL-TE-Electrica
71.	SNCFR - ROMANIAN RAILWAYS - ROMANIA	RO-OL-RW-TE-SNCFR
72.	LAND TRANSPORT AUTHORITY GUARD RAIL PANELS - SINGAPORE	SG-CR-OL-Land Transp. Auth.
73.	PHOSPHATE MINE OFFSHORE CHARGING CRANES - TOGO	TG-CN-MA-OL-PE-Off. Togolais
74.	POWER COMPANY – POWER PYLONS - TAIWAN	TW-EL-HD-OL-PY-TE-TPC
75.	DERBY – TURBINE EXHAUST STACKS - UNITED KINGDOM	UK-AZ-HT-OL-TE-Derby
76.	NEWARK MARINA BRIDGE - UNITED KINGDOM	UK-BR-OL-Newark Mar.
77.	YACHT WATER TANKS - UNITED KINGDOM	UK-MA-OL-Adela
78.	LONDON UNDERGROUND - UNITED KINGDOM	UK-OL-RW-TE-UN-London Underground
79.	US ARMY - UNITED STATES OF AMERICA	US-AR-OL-TE-TR-US Army
80.	LAFARGE - SOUTH AFRICA	ZA-CE-OL-Lafarge
81.	DURAPIPE STEEL PRODUCTION - SOUTH AFRICA	ZA-DI-OL-Durapipe steel production
	PE: Chemical, Petrochemic	als
1.	FLUXYS - BELGIAN LARGEST GAS SUPPLIER - BELGIUM	BE-PE-TE-Fluxys
2.	BASF - CHEMICAL COMPANY - BELGIUM	BE-HU-PE-TA-TE-BASF
3.	FINA CHEMICALS - PIPELINES - BELGIUM	BE-OL-PE-PI-TE-Fina
4.	WOLF OIL CORPORATION - BELGIUM	BE-OL-PE-TA-Wolf oil



2.

ALCOA LTD - AUSTRALIA

References

Ref.: Referenties/2. Overzichtslijsten Referenties/Overview references-EN/15/07/11

AU-EL-HD-LT-PY-Alcoa

		www.zinga.be
5.	VAN BROEKHOVENS - DIESEL STORAGE TANKS – BELGIUM	BE-PE-TA-TE-Van Broekhoven
6.	DRILLING PLATFORM - BRAZIL	BR-MA-PE-Polvo
7.	KOBRIN OIL PUMPING STATION - BELARUS	BY-PE-TA-TC-Kobrin
8.	SHANGHAI DOVECHEM BOMTA TERMINAL - CHINA	CN-PE-TA-Bomta
9.	SHANGHAI PRAXAIR YIDIAN - GAS PROCESSING COMPANY - CHINA	CN-PE-Praxair
10.	STROM UND HAUFENBAU HAMBURG HARBOUR COMPAGNY - GERMANY	DE-OL-PE-TA-TE-Strom
11.	ABU QIR FERTILIZERS - EGYPT	EG-PE-AbuQirFert.
12.	TRANSOCEAN SEDCO FOREX – OFFSHORE DRILLING COMPANY INDONESIA	ID-MA-PE-TransSedcoForex
13.	ABADAN & SHIRAZ REFINERIES - IRAN	IR-OL-PE-TE-Abadan Shiraz
14.	NATIONAL IRANIAN GAS COMPANY - REBARS - IRAN	IR-PE-RE-NIGC
15.	KUWAIT OIL COMPANY - KUWAIT	KW-PE-TE-KOC
16.	PETROCHEMICAL COMPANY - NETHERLANDS	NL-MA-PE-TE-Shell
17.	SHELL TANK - MOROCCO	MA-MA-PE-TA-Shell
18.	OFFICE TOGOLAIS DES PHOSPHATES PHOSPHATE MINE OFFSHORE CHARGING CRANES - TOGO	TG-CN-MA-OL-PE-Off.Togolais
19.	VECTOR INTERNATIONAL – OFFSHORE NUTS AND BOLTS – UNITED KINGDOM	UK-MA-NB-PE-TE-Vector
20.	CLAMPS CCS – UNITED KINGDOM	UK-PE-PI-Clamps CCS
21.	OIL STORAGE TANK - EXXON MOBILE - UNITED KINGDOM	UK-PE-TA-Exxon Mobile
	PI: Pipelines	
1.	NATO – NATO PUMP STATIONS - BELGIUM	BE-AR-OL-PI-NATO
2.	FINA CHEMICALS - PIPELINES - BELGIUM	BE-OL-PE-PI-TE-Fina
3.	KLUIZEN WATER PURIFICATION STATION – BELGIUM	BE-OL-PI-TC-Kluizen
4.	KEMPENSE STEENKOOLMIJNEN – PIT COAL MINE - BELGIUM	BE-OL-PI-TE-UN-Kemp.Steenk.
5.	ASSOCIATION COMPANY OF PRODUCTION OF ELECTRICITY S.P.E – BELGIUM	BE-OL-PI-TE-SPE
6.	EL SALAAM BRIDGE - EGYPT	EG-BR-MA-PI-TE-Salaam
7.	GASCO COMPANY UNDERGROUND PIPELINES - EGYPT	EG-PI-UN-Gasco
8.	METRONCO – PIPELINES - GHANA	GH-PI-Metronco
9.	SEOUL AIR CONDITIONING – SOUTH KOREA	KR-AL-PI-Seoul Air Conditioning
10.	NATIONAL ELECTRICITY COMPANY - MOROCCO	MA-MA-PI-ONE
11.	GAS PIPELINES - POLAND	PL-PI Wtoctawek
12.	TEMVAR BRASOV BRIDGE – ROMANIA	RO-BR-PI-Temvar Brasov Bridge
13.	MOSVODOKANAL – WATER SUPPLIER - RUSSIA	RU-PI-Mosvodo
14.	CLAMPS CCS - UNITED KINGDOM	UK-PE-PI-Clamps CCS
	PP: Pulp and paper mills	S
1.	STORA ENSO PAPER MILL – BELGIUM	BE-OL-PP-TE-Stora Enso
1. 2.	PULP AND PAPER INDUSTRY - CANADA	CA-PP-Pulp and Paper Industry
	PW: Potable water	
1.	GHENT - PUBLIC FOUNTAIN - BELGIUM	BE-OL-PW-TC-TE-Gent fount.
2.	RUBLEVO WATER INTAKE PLANT - RUSSIA	RU-PW-RE-Rublevo
3.	FURMANITE – A REFERENCE LETTER - UNITED KINGDOM	UK-PW-TE-Furmanite
4.	BRAITHWAITE TANK – UNITED KINGDOM	UK-PW-TA-Braithwaite tank
	PY: Pylons, light poles, towers and	d wind mills
1.	ENERGEX - PYLONS - AUSTRALIA	AU-PY-Energex



Ref.: Referenties/2. Overzichtslijsten Referenties/Overview references-EN/15/07/11



3.	TRANSEND NETWORKS - AUSTRALIA	AU-EL-PY-TE-Transend Networks			
4.	TRANSGRID NETWORKS – NEW SOUTH WALES	AU-EL-PY-Transgrid Networks			
5.	BAKCELL COMMUNICATION TOWER - AZERBAIJAN	AZ-PY-TE-Bakcell Communication Tower			
6.	BELGIAN ARMY - NAVY SHIPS AND ANTENNA - BELGIUM	BE-AR-OL-PY-SH-Belgian Army			
7.	ELECTRABEL - ELECTRICITY COMPANY - BELGIUM	BE-OL-PY-Electrabel			
8.	MULLEM WIND MILL – BELGIUM	BE-PY-Mullem Mill			
9.	DE LIJN – PYLONS – BELGIUM	BE-HD-OL-PY-RW-De Lijn			
10.	FURNAS – ELECTRICITIY PYLONS - BRAZIL	BR-EL-PY-TE-Furnas			
11.	MOBIMETAL – TELECOMMUNICATION PYLONS - CONGO	CD-PY-TE-Mobimetal			
12.	CHONGQING BROADCASTING COMPANY - CHINA	CN-HD-PY-Chong Broad			
13.	GUANGZHOU TV TOWER - CHINA	CN-PY-Guangzhou TV tower			
14.	KRASIKOV TRANSFORMER STATION - CZECH REPUBLIC	CZ-EL-OL-PY-Krasikov			
15.	SLAVETICE TRANSFORMER STATION – CZECH REPUBLIC	CZ-EL-PY-Slavitice			
16.	KECHABIA - ALGERIA	DZ-PY-Kecahbia			
17.	OHENE DJAN SPORT STADIUM LIGHT POLES - GHANA	GH-AM-HD-PY-OheneDjanStadium			
18.	PLN HIGH TENSION PYLONS – INDONESIA	ID-EL-HD-PY-PLN High Tension Pylons			
19.	LIGHT POLES OF THE ANFA AVENUE - MOROCCO	MA-PY-Anfa			
20.	TENAGA NASIONAL BERHAD - PYLONS - MALAYSIA	MY-HD-PY-Tenaga Nasional Berhad			
21.	PHCN - POWER HOLDING COMPANY OF NIGERIA - NIGERIA	NG-HD-PY-PHCN			
22.	NATIONAL GRID CORPORATION PHILIPPINES – PHILIPPINES	PH-EL-HD-PY-National Grid Corporation Philippines			
23.	SANTA RITA BALFOUR BEATTY – PHILIPPINES	PH-EL-HD-PY-Santa Rita Balfour Beatty			
24.	REDE ELECTICA NACIONAL POWER STATIONS AND SUPPLY LINES - PORTUGAL	PT-EL-PY-TE-REN			
25.	ENERGOPROJECT – TRANSMISSION TOWERS - QATAR	QA-EL-OL-PY-TE-Energo			
26.	ARAD POWER STATION - ROMANIA	RO-EL-PY-Arad			
27.	MUNTENIA – PYLONS - ROMANIA	RO-PY-TE-Muntenia			
28.	PSA LIGHTING MASTS	SG-PY-PSA Lighting Masts			
29.	GLOW ENERGY PUBLIC COMPANY MONOPOLES - THAILAND	TH-EL-HD-PY-Glow Energy Public Company Monopoles			
30.	LIGHT POLES - DON MUANG TOLL WAY - THAILAND	TH-HD-PY-Don Muang Toll			
31.	FORMOSA PLASTICS COMPANY TRANSMISSION TOWERS - TAIWAN	TW-EL-HD-PY-TE-Formosa			
32.	POWER COMPANY – POWER PYLONS - TAIWAN	TW-EL-HD-OL-PY-TE-TPC			
33.	TAIWAN POWER COMPANY - ZEPHYROS WIND MILLS - TAIWAN	TW-PY-ZC-Zephyros			
34.	KIEV ENERGO POWER PLANT - UKRAINE	UA-EL-HD-PY-Kiev Energo			
35.	KIEV ROAD ADMINISTRATION - UKRAINE	UA-PY-Kiev Road Administration			
36.	NEXRAD TOWER – UNITED STATES OF AMERICA	US-AR-PY-Nexrad Tower			
37.	LIGHT POLES, TERMINAL CUENCA DEL PLATA, PORT OF MONTEVIDEO, URUGUAY	UY-HD-PY-Katoennatie Light Pole			
38.	HAI PHONG TOWER - PYLONS - VIETNAM	VN-PY-Hai Phong Tower			
	<u>RE</u> : Rebars				
1.	TRANSFO ZWEVEGEM - BELGIUM	BE-RE-Transfo			
2.	HANGZHOU BAY BRIDGE - CHINA	CN-BR-RE-Hangzou Bay			
3.	CONTRACTOR - TURBINES - CHINA	CN-RE-RW-CWTW			
4.	NATIONAL IRANIAN GAS COMPANY - REBARS - IRAN	IR-PE-RE-NIGC			
5.	REBAR SPRAYING INSTALLATION TEHRAN HARA - IRAN	IR-AS-RE-AutomSprayLine			
6.	CHABAHAR PORT – REBARS - IRAN	IR-RE-TE-Chabahar			
7.	OMRAN SAHEL INSTITUTE – REBARS - IRAN	IR-RE-TE-OmranSahelInst.			
8.	PERLITE CONSTRUCTION - SULFUR EXPORT WHARF - IRAN	IR-RE-TE-PerliteConstr			
	TENETE GONGTROCTION - SOLI ON EXI ONT WHART - INAN				



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9.	RAHE SAHEL INSTITUTE – REBARS - IRAN	IR-RE-TE-RaheSahelInst.
10.	PARS OIL & GAS CO. – REBARS - IRAN	IR-RE-TE-Pars Oil & Gas Co.
11.	RUBLEVO WATER INTAKE PLANT - RUSSIA	RU-PW-RE-Rublevo
12.	BUILDING WITH REBARS - RUSSIA	RU-RE-Building

	<u>RW</u> : Railway			
1.	QUEENSLAND RAILWAY BRIDGES - AUSTRALIA	AU-BR-RW-QR Railway Bridges		
2.	DE LIJN – PYLONS – BELGIUM	BE-HD-OL-PY-RW-De Lijn		
3.	CITA – RAILWAY WAGON - BELGIUM	BE-OL-RW-TE-Cita		
4.	RAILWAY OFFICE - BENIN	BJ-BR-OL-RW-Chemins Fer		
5.	DORBRAS RAILWAY COMPANY - BRAZIL	BR-RW-TE-Dorbras		
6.	YUEHAI PASSAGE TRAIN FERRY PIER TERMINAL - CHINA	CN-AZ-MA-RW-YuehaiTrainFerry		
7.	CONTRACTOR – TURBINES - CHINA	CN-RE-RW-CWTW		
8.	MAGLEV TRANSRAPIP RAILWAY - CHINA	CN-RW-Maglev		
9.	SOCIETE NATIONALE DE CHEMINS DE FER - FRANCE	FR-OL-RW-TE-SNCF		
10.	SNCFR - ROMANIAN RAILWAYS - ROMANIA	RO-RW-OL-TE-SNCFR		
11.	TELEGONDOLA – ROMANIA	RO-RW-TE-Telegondola		
12.	TRAIN CARRIAGE TRANSRAIL - SENEGAL	SN-RW-TA-Train Wagon		
13.	LONDON UNDERGROUND – UNITED KINGDOM	UK-OL-RW-TE-UN-London Underground		
14. LONDON UNDERGROUND – UNITED KINGDOM UK-OL-RW-TE-Underground		UK-OL-RW-TE-Underground		
	SH: Ships			
1.	BELGIAN ARMY - NAVY SHIPS AND ANTENNA - BELGIUM	BE-AR-OL-PY-SH-Belgian Army		
2.	BLOMMAERT SHIP HATCHES - BELGIUM	BE-MA-SH-BlommaertHatches		
3.	BONNE INDUSTRIAL - SHIPS - BELGIUM	BE-SH-TC-Bonne Industrial		
4.	COBBAERT SHIP - BELGIUM	BE-SH-Cobbaert		
5.	DE GRAEVE SHIPYARDS - BELGIUM	BE-OL-SH-TC-TE-De Graeve		
6.	DREDGING COMPANIES DECLOEDT, JAN DE NUL & DREDGING INTERNATIONAL - BELGIUM	BE-OL-SH-TE-Dredging		
7.	DUPON BOAT - BELGIUM	BE-SH-Dupon		
8.	FULTON MARINE - BELGIUM	BE-SH-Fulton		
9.	MERCATOR – SAILING SHIP - BELGIUM	BE-OL-SH-TC-Mercator		
10.	NARAI – SAILING SHIP - BELGIUM	BE-OL-SH-TE-Narai		
11.	WALTZING MATHILDE SHIP - BELGIUM	BE-SH-Waltzing		
12.	WESTHINDER - LIGHTSHIP - BELGIUM	BE-OL-SH-TC-Westhinder		
13.	SHIP - BELGIUM	BE-SH-TE-West-VI.		
14.	USNS ZEUS CABLESHIP - USA	CA-AR-MA-HD-SH-USNS Zeus Cableship		
15.	EXXON MOBIL PLATFORM - MALAYSIA	MY-SH-ExxonMobil		
16.	RYSTRAUM MOTOR SHIP - NORWAY	NO-OL-SH-TE-Rystraum		
17.	COAL TRANSPORT SHIP - TAIWAN	TW-SH-TC-Coal Tr Ship		
18.	SHIPS – UNITED KIGDOM	UK-MA-SH-Ships		
19.	ITCHEN MARINE – UNITED KINGDOM	UK-SH-Itchen		
	<u>TA</u> : Tanks, containers and silos	§		

1.	DOSSCHE – CATTLE FEED TANKS - BELGIUM	BE-FO-TA-Dossche
2.	QUARTES CATTLE FEED COMPANY - BELGIUM	BE-FO-HD-OL-TA-TE-Quartes
3.	BASF - CHEMICAL COMPANY - BELGIUM	BE-HU-PE-TA-TE-BASF
4.	VAN BROEKHOVENS - DIESEL STORAGE TANKS – BELGIUM	BE-PE-TA-TE-Van Broekhoven
5.	DUMON AGRO - CONTAINER - BELGIUM	BE-TA-Dumon

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6.	GENT PUBLIC WORKS – SALT FUNNELS - BELGIUM	BE-TA-Gent Pub.		
7.	COCA COLA - BELGIUM	BE-TA-Coca Cola		
8.	SILOS DE COCK – BELGIUM	BE-HD-TA-De Cock		
9.	SILO'S DUBO DEUREN – ERPE-MERE	BE-HD-TA-Silo's Dubo Deuren		
10.	SNACK FOODS VEURNE - BELGIUM	BE-TA-SnackFoods		
11.	PAESEN - CONCRETE MILL - BELGIUM	BE-CE-TA-Paesen		
12.	WOLF OIL CORPORATION - BELGIUM	BE-OL-PE-TA-Wolf oil		
13.	MAKRO – A TANK - BELGIUM	BE-TA-Makro		
14.	SILOS VANDENBERGHE - BELGIUM	BE-TA-Vandenberghe		
15.	KOBRIN OIL PUMPING STATION - BELARUS	BY-PE-TA-TC-Kobrin		
16.	SHANGHAI DOVECHEM BOMTA TERMINAL - CHINA	CN-TA-PE-Bomta		
17.	STROM UND HAUFENBAU HAMBURG HARBOUR COMPAGNY - GERMANY	DE-OL-PE-TA-TE-Strom		
18.	GRILLO WERKE AG GAS CYLINDERS GERMANY	DE-TA-Grillo Werke AG		
19.	WATER STORAGE TANKS ROURKELA – INDIA	IN-TA-Water Storage Tanks		
20.	GRAIN SILOS NADOR CEREALES – MOROCCO	MA-AG-HD-TA-Grain Silos Nador Cereales		
21.	HYDRO-TANK - MAROC	MA-TA-Hydro-tank		
22.	SHELL TANK - MOROCCO	MA-MA-PE-TA-Shell		
23.	TANK - MOROCCO	MA-TA-Kettle construct		
24.	STORAGE TANKS - NORWAY	NO-TA-Storage tanks		
25.	TANKS – NEW PLYMOUTH – NEW ZEALAND	NZ-TA-New Plymouth		
26.	CONTAINERS AND METAL GIRDERS - POLAND	PL-CO-TA-ZREMB		
27. TRAIN CARRIAGE TRANSRAIL - SENEGAL SN-RW-TA-Train Wa		SN-RW-TA-Train Wagon		
28.	MAERSK CONTAINERS - TAÏWAN	TW-TA-TE-Maersk		
29.	OIL STORAGE TANK - EXXON MOBILE - UNITED KINGDOM	UK-PE-TA-Exxon Mobile		
30.	BRAITHWAITE TANK – UNITED KINGDOM	UK-PW-TA-Braithwaite tank		
31.	PORT ELISABETH ELECTRICITY DEPARTMENT - FUEL TANKS AND EXHAUST – SOUTH AFRICA	ZA-AZ-HT-TA-Port.EL		
	<u>TC</u> : Topcoats			
1.	REYNELLA BRIDGE - AUSTRALIA	AU-BR-TC-Reynella Bridge		
2.	MELLE BRIDGE - BELGIUM	BE-BR-OL-TC-Melle Bridge		
3.	DULLE GRIET - CANNON – BELGIUM	BE-CI-TC-Dulle Griet		
4.	KLEIN KASTEELKEN – CAST IRON FENCE - BELGIUM	BE-CI-CR-OL-TC-Klein Kast.		
5.	NO-PARKING POSTS BRUSSELS	BE-CR-TC-Amsterdammertjes Stad Brussel		
6.	WATER PURIFICATION STATION - BELGIUM	BE-OL-PI-TC-Kluizen		
7.	PUBLIC FOUNTAIN IN GHENT – BELGIUM	BE-OL-PW-TC-TE-Gent fount.		
8.	BONNE INDUSTRIAL - SHIPS - BELGIUM	BE-SH-TC-Bonne Industrial		
9.	DE GRAEVE SHIPYARDS - BELGIUM	BE-OL-SH-TC-TE-De Graeve		
10.	MERCATOR - SAILING SHIP - BELGIUM	BE-OL-SH-TC-Mercator		
11.	WESTHINDER - LIGHTSHIP - BELGIUM	BE-OL-SH-TC-Westhinder		
12.	TEATRO MUNICIPAL - BRAZIL	BR-CI-CO-TC-Teatro		
13.	METRO – MINSK – BELARUS	BY-AM-LT-TC-Metro		
14.	KOBRIN OIL PUMPING STATION - BELARUS	BY-PE-TA-TC-Kobrin		
15.	TRASH RACKS POWER PLANT – SOUTH KOREA	KR-EL-IM-MA-TC-Trash rack		
16.	POWER PLANTS - TAIWAN	TW-EL-TC-ZC-Power Plants		
17.	COAL TRANSPORT SHIP - TAIWAN	TW-SH-TC-Coal Tr Ship		
	<u>TE</u> : Testimonials			

1.



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2.	BAKCELL COMMUNICATION TOWER - AZERBAIJAN	AZ-PY-TE-Bakcell Communication Tower	
3.	QUARTES CATTLE FEED COMPANY - BELGIUM	BE-FO-HD-OL-TA-TE-Quartes	
4.	DREDGING COMPANIES DECLOEDT – BELGIUM	BE-OL-SH-TE-Dredging	
5.	DE GRAEVE SHIPYARDS – BELGIUM	BE-OL-SH-TC-TE-De Graeve	
6.	INTERCOMMUNALE E3 – METAL CONSTRUCTIONS - BELGIUM	BE-CR-OL-TE-Intercomm	
7.	EUROPEAN TECHNICAL ASSOCIATION FOR PROTECTIVE COATINGS – BELGIUM	BE-BR-OL-TE-Etapc	
8.	PIT COAL MINE – BELGIUM	BE-OL-PI-TE-UN-Kemp.Steenk	
9.	SLAUGHTERHOUSE CHARLEROI – BELGIUM	BE-CR-FO-HD-LT-OL-TE-AbattoirCharleroi	
10.	ASSOCIATION COMPANY OF PRODUCTION OF ELECTRICITY – S.P.E. – BELGIUM	BE-OL-PI-TE-SPE	
_11.	TOTAL PETROCHEMICAL FELUY - PIPELINES - BELGIUM	BE-OL-PE-PI-TE-Fina	
12.	NARAI – SAILING SHIP – BELGIUM	BE-OL-SH-TE-Narai	
13.	NATO – NATO PUMP STATIONS – BELGIUM	BE-AR-OL-PI-TE-NATO	
14.	HOLCIM GRANULATS - CEMENT FACTORY - BELGIUM	BE-CE-OL-TE-Holcim	
15.	DECLOEDT - DREDGING COMPANY - BELGIUM	BE-OL-MA-TE-Decloedt	
16.	HARBOUR OF GENK – BELGIUM	BE-CN-OL-TE-KHG	
17.	STORA ENSO PAPER MILL – BELGIUM	BE-OL-PP-TE-Stora Enso	
18.	CITY - RAILWAY WAGON - BELGIUM	BE-OL-RW-TE-CITA	
19.	J.M. INDUSTRIAL – BELGIUM	BE-AZ-CE-HU-OL-TE-JM-Ind	
20.	CARSID – BELGIUM	BE-AZ-HT-OL-TE-Carsid	
21.	MARTENS DIRK – AGRICULTURAL MACHINERY	BE-AG-OL-TE-Martens	
22.	PUBLIC FOUNTAIN IN GHENT – BELGIUM	BE-OL-PW-TC-TE-Gent fount.	
23.	TRACTEBEL - POWER STATION - BELGIUM	BE-CO-EL-OL-TE-Tractebel	
24.	VERDEGEM CATTLE FEED COMPANY – BELGIUM	BE-FO-TE-Verdegem	
25.	FLUXYS (BELGIAN LARGEST GAS SUPPLIER) – BELGIUM	BE-PE-TE-Fluxys	
26.	BASF - CHEMICAL COMPANY - BELGIUM	BE-PE-HU-TA-TE-BASF	
27.	VAN BROEKHOVENS – DIESEL STORAGE TANKS – BELGIUM	BE-PE-TA-TE-VanBroekh	
28.	SPX COOLING TECHNOLOGIES – BONNETS OF SRC BUNDLES – BELGIUM	BE-LT-TE-SPX Cooling Technologies	
29.	WEST-VLAANDEREN SCHEEPSWERF – BELGIUM	BE-SH-TE-West-VL	
30.	FURNAS – ELECTRICITIY PYLONS - BRAZIL	BR-EL-PY-TE-Furnas	
31.	DORBRAS RAILWAY COMPANY – BRAZIL	BR-RW-TE-Dorbras	
32.	TECHNICAL FAIR – BULGARIA	BG-CO-TE-TechnFair	
33.	BC FERRY TERMINALS – CANADA	CA-BR-MA-OL-TE-BC Ferry	
34.	OVERLANDER BRIDGE – CANADA	CA-BR-OL-TE-Overlander	
35.	MINISTRY OF TRANSPORT - QUEBEC	CA-HD-TE-Ministry of transport	
36.	CITY OF BURNABY – CANADA	CA-MA-TE-CityofBurnaby	
37.	WALT DISNEY – HONG KONG – CHINA	CN-AM-TE-Walt Disney HK	
38.	MOBIMETAL – TELECOMMUNICATION PYLONS - CONGO	CD-PY-TE-Mobimetal	
39.	EL SALAAM BRIDGE - EGYPT	EG-BR-MA-PI-TE-Salaam	
40.	SOCIETE NATIONALE DE CHEMINS DE FER - FRANCE	FR-OL-RW-TE-SNCF	
41.	RENAULT - CAR MANUFACTURING COMPANY - FRANCE	FR-CO-OL-TE-TR-Renault	
42.	DIRECTION DEPARTEMENTALE DE L'EQUIPEMENT - FRANCE	FR-HD-IM-MA-OL-TE-Sea Buoys	
43.	ZINGA ANTICORROSION DISTRIBUTOR - FRANCE	FR-HD-TE-Guerin	
44.	DÜSSELDORF HIGHWAY - CRASH BARRIERS - GERMANY	DE-CR-OL-TE-Düss.Highway	
45.	STROM UND HAUFENBAU HAMBURG HARBOUR COMPAGNY - GERMANY	DE-OL-PE-TA-TE-Strom	
46.	DÜSSELDORF AIRPORT - GERMANY	DE-AP-CO-HD-OL-TE-Düss.Airport	
47.	RWE - AG - ELECTRICITY COMPANY - GERMANY	DE-EL-OL-TE-RWE	



Ref.: Referenties/2. Overzichtslijsten Referenties/Overview references-EN/15/07/11

48.	SCHWENK - CEMENT FACTORY - GERMANY	DE-CE-OL-TE-Schwenk		
49.	ABADAN & SHIRAZ REFINERIES - IRAN	IR-OL-PE-TE-Abadan Shiraz		
50.	OMRAN SAHEL INSTITUTE – REBARS - IRAN	IR-RE-TE-OmranSahelInst		
51.	PARS OIL & GAS CO. – REBARS - IRAN	IR-RE-PE-TE-Pars Oil & Gas		
52.	PERLITE CONSTRUCTION SULFUR EXPORT WHARF - IRAN	IR-RE-TE-PerliteConstr		
53.	RAHE SAHEL INSTITUTE – REBARS - IRAN	IR-RE-TE-RaheSahelInst.		
54.	CHABAHAR PORT – REBARS - IRAN	IR-RE-TE-Chabahar		
55.	KILLYBEGS FISHING PIER IMMERSED PIER LEGS - IRELAND	IE-IM-MA-TE-Killybegs pier		
56.	MINISTRY OF PUBLIC WORKS - KUWAIT	KW-CO-OL-TE-Ministry of Public Works		
57.	MINISTRY OF ELECTRICITY AND WATER - KUWAIT	KW-EL-OL-TE-Ministry of Electricity and Water		
58.	KUWAIT OIL COMPANY - KUWAIT	KW-PE-TE-KOC		
59.	RYSTRAUM MOTOR SHIP - NORWAY	NO-OL-SH-TE-Rystraum		
60.	KALVOYA BRIDGE - NORWAY	NO-BR-MA-OL-TE-Kalvoya		
61.	REDE ELECTICA NACIONAL - PORTUGAL	PT-EL-OL-PY-TE-REN		
62.	ENERGOPROJECT – TRANSMISSION TOWERS - QATAR	QA-EL-OL-PY-TE-Energo		
63.	ELECTRICA - NATIONAL ELECTRICITY SUPPLIER - ROMANIA	RO-EL-OL-TE-Electrica		
64.	SNCFR - ROMANIAN RAILWAYS - ROMANIA	RO-OL-RW-TE-SNCFR		
65.	SERVSPEC - ROMANIA	RO-TE-Servspec		
66.	MUNTENIA – PYLONS - ROMANIA	RO-PY-TE-Muntenia		
67.	TELEGONDOLA - ROMANIA	RO-RW-TE-Telegondola		
68.	EXXARO KUMBA GROOTGELUK COALMINE – SOUTH AFRICA	ZA-CO-TE-UN-Kumba Mine		
69.	FORMOSA PLASTICS COMPANY TRANSMISSION TOWERS - TAIWAN	TW-EL-HD-PY-TE-Formosa		
70.	MAERSK CONTAINERS - TAIWAN	TW-TA-TE-Maersk		
71.	SHELL PETROCHEMICAL COMPANY - THE NETHERLANDS	NL-MA-PE-TE-Shell		
72.	LONDON UNDERGROUND – UNITED KINGDOM	UK-OL-RW-TE-UN-London Underground		
73.	DERBY – TURBINE EXHAUST STACKS – UNITED KINGDOM	UK-AZ-HT-OL-TE-Derby		
74.	74. VECTOR INTERNATIONAL – UNITED KINGDOM UK-MA-NB-PE-TE-Ver			
75.	FURMANITE – UNITED KINGDOM	UK-PW-TE-Furmanite		
76.	LONDON UNDERGROUND – UNITED KINGDOM	UK-OL-RW-TE-UN-London Underground		
77.	US ARMY -UNITED STATES OF AMERICA	US-AR-HD-OL-TE-TR-US Army		
78.	MISSISSIPPI DEPARTMENT OF TRANSPORTATION BILOXI BRIDGE – UNITED STATES OF AMERICA	US-AR-BR-TE-MDOT		
	TP: Tropical environments			
1.	TROPICAL ISLAND DOME - GERMANY	DE-TP-Trop Islands		
2.	GREENHOUSE - FINLAND	FI-HU-TP-Greenhouse		
3.	KENSINGTON PALACE SUNKEN GARDENS – UNITED KINGDOM	UK-AG-AM-CI-TP-Kensington Palace Sunken Gardens		
4.	EDEN GREENHOUSE DOME – UNITED KINGDOM	UK-AG-HD-HT-TP-Eden		
	TR: Trucks and trailers			
1.	DANZAS -TRUCK - BELGIUM	BE-TR-Danzas		
2.	ICC - TRUCK CHASSIS - BELGIUM	BE-TR-ICC		
3.	LAMBREGT - TRUCK CHASSIS - BELGIUM	BE-TR-Lambregt		
4.	RENAULT - CAR MANUFACTURING COMPANY - FRANCE	FR-CO-OL-TE-TR-Renault		
5.	CARTS TO CONVEY STONES - MOROCCO	MA-TR-Transit trailer		
6.	CHASSIS – UNITED KINGDOM	UK-TR-Chassis		
7.	US ARMY – UNITED STATES OF AMERICA	US-AR-HD-OL-TE-TR-US Army		
	<u>UN</u> : Underground			



1.	CULVERTS - AUSTRALIA	AU-HD-HU-IM-UN-Culverts
2.	KEMPENSE STEENKOOLMIJNEN – PIT COAL MINE - BELGIUM	BE -OL-PI-TE-UN-Kemp.Steenk.
3.	GASCO COMPANY UNDERGROUND PIPELINES - EGYPT	EG-PI-UN-Gasco
4.	LONDON UNDERGROUND – UNITED KINGDOM	UK-OL-RW-TE-UN-London Underground
5.	CULVERTS - UNITED KINGDOM	UK-HD-HU-IM-UN-Culverts
6.	EXXARO KUMBA GROOTGELUK COALMINE – SOUTH AFRICA	ZA-CO-TE-UN-Kumba Mine

WE: Welding

	<u>ZC</u> : Zingaceram		
1.	POWER PLANTS - TAIWAN	TW-EL-TC-ZC-Power Plants	
2.	TAIWAN POWER COMPANY - ZEPHYROS WIND MILLS - TAIWAN	TW-PY-ZC-Zephyros	



ALCOA LTD - AUSTRALIA

Alcoa LTD is a worldwide producer of, among others, aluminium. One of the places where they produce aluminium is Point Henry in Australia.

Because this production takes up a lot of energy, they produce it themselves in a power plant running on coal in Anglesea, Australia.

ZINGA has been used on water trays that are placed at the inside of cooling towers, this application took place in Anglesea.

Powercor - Randall Long General contractor: Paint Inspection office: Incospec - Peter Dove Applicator: Temco (towers)

Hydro-blast (trays)

Alcoa Itd - David Le Lièvre and Ross Vince Principals:







Surface preparation trays:

Rz: 50 - 70 µm

SA: 2,5



System:

ZINGA 2 x 60 µm





ZINGA has also been used on power pylons at Point Henry, Australia.

Here it was applied on top of an old hot-dip layer. The application took place between 8 and 15 April 2005. After an inspection in November 2006, the treated towers were still in perfect condition.





SLAUGHTERHOUSE CHARLEROI - BELGIUM

Pictures taken before application of ZINGA in 1987.



Free translation of letter dated 21.12.2006 Société de l'Abattoir de Charleroi Charleroi. 21 December 2006

Dear Sirs,

We confirm that in 1987 we applied ZINGA in 2 layers on steel structures at the inside of our slaughter house and also in the cooling chambers.

As a high humidity degree is available in those areas, the hot dipped galvanised steel was rusting. So we needed to prevent the hot-dipped galvanised steel from further

Only after more than 20 years a little touch-up was required (see pictures).

Those pictures show that ZINGA has been very efficient even in aggressive and humid area.

It is obvious that ZINGA compared to hot-dipping has a better resistance.

This is why we do not hesitate to express our satisfaction towards ZINGA.

We even recommend this Zinganisation system for several other equipment.

Yours faithfully,

Louis P. President



QUARTES CATTLE FEED COMPANY - BELGIUM

In 1980 ZINGA was used for the recharging of old hotdip galvanised silos for livestock-feed concentrates and premixes (4 silos, 20 m in height, 4 m in diameter, approx. 4000 m²) at the cattle feed company Quartes (formerly named Versele-Laga). The work was executed

with brush and roll.

System:

ZINGA

2 x 60 µm

N.V. VERSELE-LAGA

Kapellestraat 70 9800 DEINZE (Belgium) Tel. 32-9-3813200 Telex 11662 Telefax 32-9-3868513

LIVESTOCK-FEED
CONCENTRATES AND PREMIXES

Zinga Metall T.a.v. Dhr. Willemot Industriepark Veneco Rozenstraat 4

9810 EKE (NAZARETH

Your ref.

Our ref.

HD/SD

DEINZE,

May 7, 1996

TESTIMONIAL

We have an experience of over 15 years with ZINGA in our factory for several applications of all kinds.

We want to express our entire satisfaction, in particular concerning the application of \mathtt{ZINGA} on $\mathtt{gilo'g}$, (4 silo's, 20 m in height, 4 m in diameter). These silo's are confronted with \mathtt{a} very agressive environment, because they are situated at the bank of a polluted river with $\mathtt{gonstant}$ humidity.

Till now no maintenance has been necessary. The application was made with a roll/brush by our own maintenance crew. The sile's contain ingredients for cattle food industry and/or fertilizers for agriculture. The temperature of the content varies, which causes a supplementary corrosion speed. We confirm herewith that the Film galvanised system with ZINGA is a cost saving system with a minimum of maintenance. The little maintenance which has been done (on our other applications) was reduced to a minimum due to the fact that only water cleaning (pressure) was necessary before we could touch up and reload the old and weathered zinganised structures.

H. DESSOMVIELE Technical Director

2

H.R. GENT 136.371

BTW BE 424.901.669

KREDIETBANK 442-9100151-29

Z

www.zinga.be



Mr. Guy WILLEMOT ZINGAMETALL BVBA Industriepark Veneco Rozenstraat 4 9810 EKE - NAZARETH BELGIUM

Date: 22/05/2003 Our reference:

1496-01-0883 E-2003

Your Reference: Verbal 09/05/03

Type of intervention	SURVEY REPORT	
Object	4 silo's for grain / flour storage	
Location	Quartes (ex Versele-Lagae nv) at Deinze	
Date inspection	13/05/03	
Time inspection	14:30	

3.2. Measurements of D.F.T..

ELCO	METER BATCH NR./OBJECT ♦	Layer	Average. DFT (µm)	% < Abs.Min	% > Min	OK/NOK
F1	QUARTES SILO 1	2/2	194	0	100	OK
F2	QUARTES SILO 2	2/2	155	0	100	OK
F3	QUARTES SILO 3	2/2	171	0	100	OK
F4	QUARTES SILO 4	2/2	162	0	100	OK

Remarks:

On top of the coating, some grow of fungi were stated.

3.3. Adhesion testing (Evaluation conform ASTM D-3359-A, par.7).

Item

Silo nº 2

Layer

2/2 OK

Result

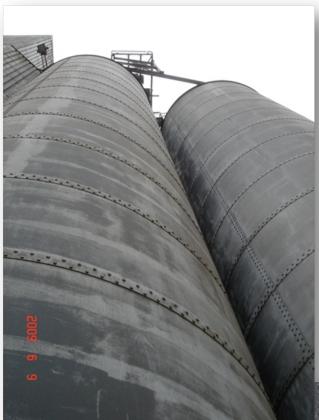
Good adhesion.

3.4. Visual aspect (covering, closed film, holidays, runners, curtains..)

All siles do not show any rust spots on the flat surfaces and rivet connections.

Small areas with corrosion were stated at the backsides of the manhole entrances. This should be touched-up in order to prevent further breakdown.

In May 2003, 23 years after the application, the silos were officially inspected by SGS Axa-Med. As you can see, the dry film thickness was still more than sufficient and the adhesion was perfect. The silos did not show any rust, except at small areas at the backside of manhole entrances. Some minor touch-ups had to be done, but there was absolutely no need for a complete maintenance.



In June 2009, 29 years after the application, the silos were again visited.

As you can see, 29 years after application there is still no rust to be found on the surface.

There is only a slight coloration on the surface caused by algae being able to survive because of the humid environment the silos are in.

As you can see on the picture on the right hand side, ZINGA is still holding strong.

Scratching the surface using a coin and key was not enough to get to the metal beneath. It simply showed the zinc colour from ZINGA under the layer of zinc salts.





BASF - CHEMICAL COMPANY - BELGIUM

Reference letter from the chemical company BASF, Antwerp, dated 10/12/03, confirming that ZINGA is an efficient alternative for hot-dip.

BASF Antwerpen N.V.

BASF

Van Look Ann Goossens Marc STC

E935 E935

> 2003-12-10 / MW SEQ/M - D530 Winkelmans Mark 2 44 08

rapport nr.: 03-c-03/1

ZINGA als alternatief voor thermisch verzinken

"ZINGA offers a potential alternative for hot-dip galvanisation."

1 Situering

Thermisch verzinken wordt bij BASF Antwerpen N.V. vaak toegepast om koolstofstaal te beschermen tegen corrosie. De ervaring leert dat de aangebrachte zink slechts een bescherming van de onderliggende structuur biedt voor een periode van 15 tot 20 jaren. Nadien dringt zich een renovatie van staalstructuren op waarbij de verschillende onderdelen opnieuw thermisch verzinkt dienen te worden om het oorspronkelijke beschermingsniveau te bereiken. Hiervoor moeten staalstructuren geheel of gedeeltelijk gedemonteerd worden wat tot aanzienlijke kosten kan leiden.

ZINGA biedt een mogelijk alternatief voor thermisch verzinken. ZINGA is een monocomponent zinkcoatinsysteem dat kan aangebracht worden door te verspuiten, door te verven met borstel of rol, of door onder te dompelen.

ZINGA kan aangebracht worden op zowel nieuwe structuren, bestaande thermische verzinking als op oude ZINGA-lagen.

ZINGA biedt net als een thermische verzinking een actieve bescherming door de kathodische/zelfopofferende werking van de aangebrachte laag. Tevens biedt ZINGA dezelfde voordelen als een verfsysteem. Met behulp van zinkoxyden en bindmiddel wordt een barrière gevormd voor de lucht en zodoende wordt de onderliggende staalstructuur tegen corrosie beschermd.

2 Uitgevoerd onderzoek

Om de doeltreffendheid van de ZINGA-coatings te evalueren werden koolstofstalen probes voorzien van ZINGA-coatingssystemen gedurende 4 maanden aan agressieve omstandigheden in de waterzuiveringsinstallatie bij BASF Antwerpen N.V. blootgesteld.



This statement is based on an internal investigation by BASF: during 4 months, zinganised steel probes have been exposed to aggressive atmosphere of a waste water tank in the water purification installation of BASF.

BASF Antwerpen N.V.

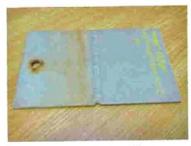
BASF

De probes werden ingebouwd in de bezinkingsbekkens van de waterzuiveringsinstallatie. De probes werden gedeeltelijk ondergedompeld in de restwater-stroom en bevonden zich gedeeltelijk in de agressieve atmosfeer boven het restwater (figuur 1).



Figuur 1 Ingebouwde probes bezinkingsbekkens waterzuiveringsinstallatie

De visuele beoordeling van de probes na de inbouwfase toonde aan dat geen enkele aantasting van de coatings plaats gevonden heeft en dit zowel in de waterstroom, aan het grensvlak water/atmosfeer als in de atmosfeer. Aan het grensvlak water/atmosfeer vertoonden de probes wel een roestbruine verkleuring (figuur 2). Deze verkleuring is zeer oppervlakkig en kan door een lichte wrijfbeweging verwijderd worden.



Figuur 2 Uitzicht probe na 4 maanden blootstelling aan een agressieve omgeving.

3 Besluit

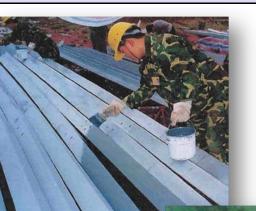
Op basis van de uitgevoerde corrosietesten kan ZINGA als een volwaardig alternatief beschouwd worden voo het thermische verzinken van koolstofstalen structuren.

Voor eventuele bijkomende testen in andere omgevingen zijn nog probes beschikbaar.

met vriendelijke groeten,

Mark Winkelmans Technische Inspectie "Based on the performed corrosion tests, ZINGA can be considered as an equivalent alternative for hot-dip galvanisation of steel structures."

CHONGQING BROADCASTING COMPANY - CHINA



In July 2001 the Chongqing Broadcasting Company has constructed a new TV transmission tower.

ZINGA was applied on top of hot-dip galvanised steel. The hot-dip galvanising layer was new but due to its bad quality, it had already started to rust. It was roughened by means of a chemical etching product.

The site was inspected in April 2002 and the Zinga was found to be in excellent condition.

System:

Hot-dip 1 x 90 μm ZINGA 1 x 40 to 50 μm





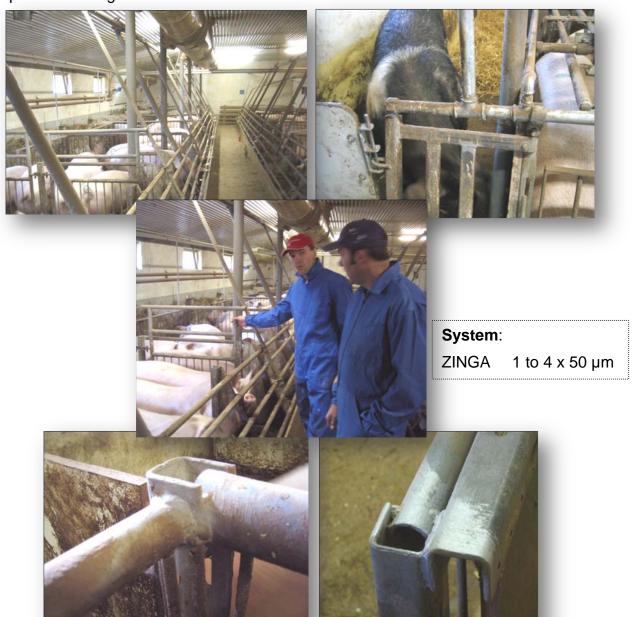
CATTLE- AND PIGFARM - FINLAND

ZINGA has been used in pig farms already for nearly 15 years: in re-coating existing galvanised surfaces and in recent years also using ZINGA as the only coating system.

Surfaces are sandblasted to at least SA 2,5 and ZINGA is applied:

- to normal areas 1 x 50 μm DFT
- fittings at floor level are treated with 3 to 4 layers of 50 µm which offers an even longer lasting surface.

ZINGA clearly offers better durability than a hot-dip galvanised surface. Also supervision and re-treatment of the anti-corrosion protection of the object is simple when using ZINGA.



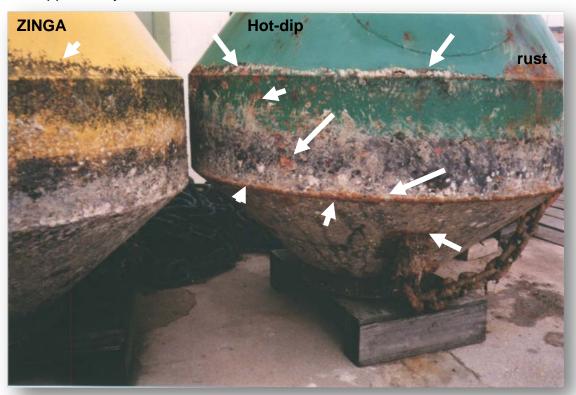


References

www.zinga.be

DIRECTION DEPARTEMENTALE DE L'EQUIPEMENT, VENDEE **SEA BUOYS - FRANCE**

These two sea buoys have been floating in the Atlantic Ocean for 4 years. The yellow buoy, a mild steel buoy treated with Zinga, was compared to the green buoy that was galvanised by the traditional hot-dip process. The two buoys had received the same type of topcoats with the same layer thickness, with a supplementary adhesion coating for the hot-dipped buoy.



Conclusion of this test: the buoy treated with Zinga showed no trace of rust, but the hot-dip galvanised buoy was severely corroded in several places.

System:

ZINGA

Epoxy Plastitar

Yellow buoy:		<u>Green buoy:</u>	
Duplex system ZINGA		Duplex system hot-dip	galvanisation
Above the water line: ZINGA 2c Pu Plastilaque	1 x 80 µm 2 layers	Above the water line: Hot-dip Galvalu 2c Pu Plastilaque	80 µm pickling 2 layers
20 i u i iastilaque	2 layers	20 i u i iastilaque	2 layers
		Below the water line:	
Below the water line:		Hot-dip	80 µm

Galvalu

Epoxy Plastitar

pickling

1 layer

1 x 80 µm

1 layer

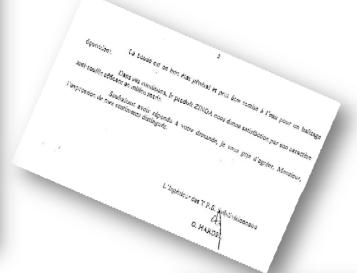


References

www.zinga.be



This is the testimonial from the Department Management of Equipment of Vendée, confirming the excellent behaviour of Zinga in comparison to hot-dip galvanisation.



Translation

Direction Départementale de l'Equipement

From : Department Management of Equipment, Vendée, Maritime Service, Subdivision of Beacons and Buoys



<u>Subject: Test application Zinga on marine buoy in Noirmoutier.</u>

Dear Sir,

I have devoted all my attention to your above mentioned letter and I am able to provide you with following information concerning our test application with Zinga on a marine buoy.

- > Type of buoy EGOR 2000 made of steel.
- > Treatment with Zinga by the company DESSAIX in Noirmoutier after sandblasting in the spring of 1994.
- Yellow colour (special mark buoy) effected by the personnel of "Beacons and Buoys" by means of a two component polyurethane paint.
- Launched into Guérinière bay (south of the Isle of Noirmoutier) on 14th June 1994.
- > Removal of the buoy for maintenance of the chain and shackles on 18th May 1998.
- After a period of nearly 4 years in the sea, the buoy doesn't show a single rust spot. The yellow paint needs a little refreshing and shows some blisters due to shocks. The Zinga product is visible on these spots, without any trace of rust. The buoy is in good general shape and can be launched into the water again for an equivalent period of time. In these conditions the ZINGA product gives us satisfaction because of its efficient anti rust character in a marine environment.



ZINGA ANTICORROSION DISTRIBUTOR - FRANCE

Please find hereafter a reference letter in which you will notice that even specialists in hot dipping are using Zinga as touch-up.

Yves GDERIN

AGENT DEPOSITAIRE ZINGA ANTICORROSION
Parc Industriel de la Vertonne
29 T, Rue de la Maladrie
44120 VERTOU

全 02 40 34 57 54 墨 02 40 34 31 23

Vertou, le 10 février 2008

Messieurs.

Veuillez trouver, ci-joint, une documentation ZINGA.

Nous attirons votre attention sur le fait que ce produit assure une <u>PROTECTION CATHODIQUE</u> et montre un pouvoir protecteur comparable à celui d'une galvanisation à chaud tout en s'appliquant comme une peinture, c'est à dire A FROID.

Ce système de protection est particulièrement adapté pour le reconditionnement de structures galvanisées ou métallisées en place.

Des professionnels de la galvanisation à chaud tels que SNG à NANTES (44) – GALVA45 à ESCRENNES (45) GALVALEK à CARPIQUET (14) GALVA 60 à St Leu à ESSERENT (60) ... utilisent ZINGA pour des applications complémentaires de zinc sur les structures galvanisées et le vendent à leurs propres clients pour recréer une protection suite aux travaux de montage (perçage, meulage, soudures, chocs ...).

Nous sommes convaincus que notre produit ZINGA n'a pas d'équivalent sur le marché et qu'il représente le produit complémentaire idéal à la galvanisation à chaud et la métallisation.

Nous restons à votre disposition pour tous compléments d'information. Veuillez croire, Messieurs, à l'expression de nos sentiments les meilleurs.

Yves GUERIN

free translation

Dear Sirs.

Please find hereafter some info about ZINGA.

We draw your attention to the fact that this product gives a full cathodic protection and this comparable to hot-dip while it is a cold film galvanising system, very easy to apply, just as a paint.

This system is particularly adapted for refurbishment of galvanised or metallised structures on site.

Professionals in the hot-dipping sector such as SNG in Nantes (44) – Galva 45 in Escrennes (45), Galvalek in Carpiquet (14), GALVA 60 in St Leu à Esserent (60) ... use **ZINGA** for complementary zinc applications on the galvanised structures and they sell it to their own customers for giving a protection to damage occurred while building up (perforation, cutting, welding, impact...)

We are convinced that our ZINGA cannot be compared to any other product on the market and that it is the ideal product that can be used as a supplement to hot-dipping and metallisation (zinc spraying).

We remain at your disposal for any further information.

Yours faithfully,

Yves Guérin



OHENE DJAN SPORT STADIUM LIGHT POLES - GHANA

Originally the Accra Sports stadium, renamed after Ohene Djan who was the first Director of Sports in Independent Ghana in 2004, is a multi-use, 40.000 all-seat stadium in Accra, Ghana.

The rehabilitation of the light mast structures of the Ohene Djan Sports Stadium started on 12th March 2007. The actual surface preparation and ZINGA application works started on 25th March, 2007.



The light mast structures are hot-dip galvanized structures with a height of 48 meters and a base perimeter of 4,5 meters, erected on a secured concrete base. The four light masts, have an existing hot-dip galvanized layer with serious corrosion, on the mast head-frame assembly, the upper platform assembly and flooring, mast base plate and some areas of the main mast shaft.





System:

Surface preparation:

SA 2,5 and Rz 50-70µm

ZINGA 1 x 60 µm DFT Alufer N 1 x 80µm DFT



TENAGA NASIONAL BERHAD - PYLONS - MALAYSIA

Over 40 towers have been treated with ZINGA for TNB (Tenaga Nasional Berhad). ZINGA was used to restore old hot-dip galvanised towers. More than 40 tons of ZINGA were used in this project.





ZINGA



YUZHNY GREENHOUSE FARM - RUSSIA

Yuzhny Greenhouse Farm is the largest European greenhouse farm of its kind. It is situated in Cherkessk Stavropol region, Russia.

The total area of the glass covered houses is over 144 hectares.



Conditions of exploitation inside the greenhouse:

- temperature: 20 to 30°C - humidity: 80%



The metal structures used as support were originally hot-dipped.

Late in July 2003, the previously hot-dipped coating of the metal structures was repaired or restored by means of ZINGA. At the first stage 5 tons of ZINGA were already supplied. The applications continued until August/September 2003.

| ''

www.zinga.be

LAND TRANSPORT AUTHORITY (LTA) GUARD RAIL PANELS – SINGAPORE

In April 1998 a test application with ZINGA was done on the guard rails on Ulu Pandan Road in Singapore. After 12 months of monitoring and observations, the LTA (Land Transport Authority) finally accepted Zinga.

Since then LTA has embarked on a program of rehabilitating stretches of previously hot dipped galvanized guardrails using Zinga.

The high quality protection against corrosion, the ease of application for maintenance, the non-toxicity of process and the reduction in road closures also provided for substantial cost-saving benefits for the LTA.







System:

Surface preparation:

Removal of loose rust by wire brush. Removal of contaminants by water.

System:

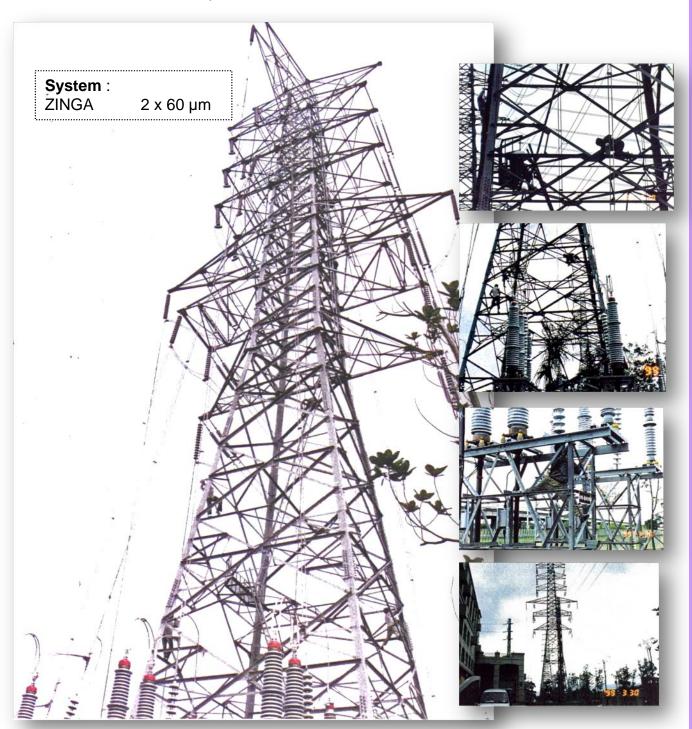
ZINGA 2 x 40µm DFT (using brush and roller)

POWER COMPANY - POWER PYLONS - TAIWAN

Since 1998 the Taiwan Power Company (TPC) has been using ZINGA for the refurbishment of old hot-dip galvanised power pylons and also for new pylons.

D/S connecting tower and steel structures (new steel) in Tong-Sher: pictures dated 1999.

Here, the ZINGA was brushed in 2 layers on a connecting tower with a total area of approx. 900 m². 8 people worked for 2 days at 8 hours per day per pylon. The total ZINGA consumption was +/- 40 Tons.





Ref.: TW-EL-HD-OL-PY-TPC EN-23/02/04

2/2

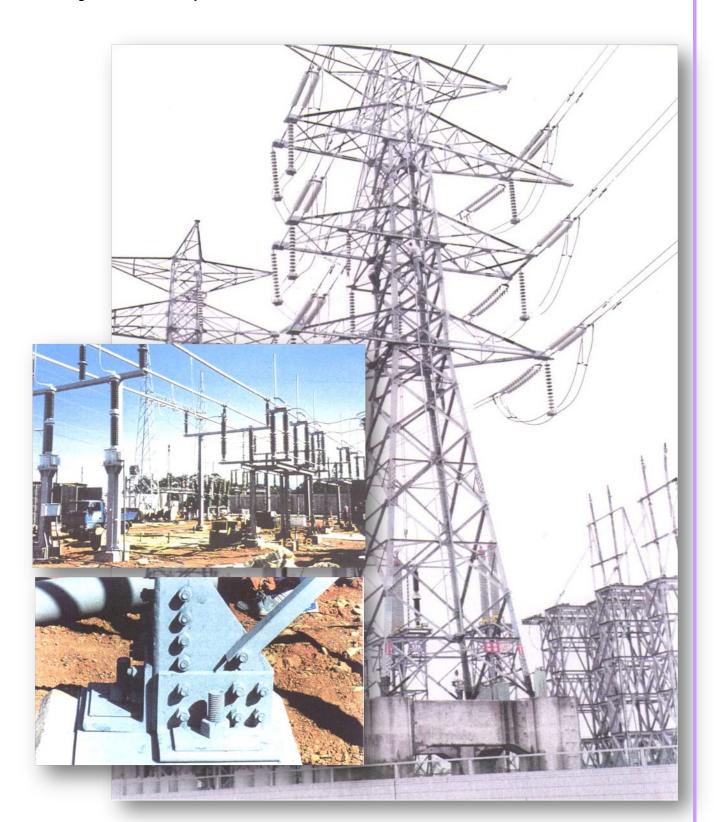
www.zinga.be

New-built transmission towers in Fu-Gang: pictures taken in 1999.

System: ZINGA

2 x 60 µm

With hot dip there was only a corrosion free period of two years, whereas with Zinga, a life guarantee of 10 years is assured.





FORMOSA PLASTICS COMPANY TRANSMISSION TOWERS - TAIWAN

In 1999 ZINGA was applied by the company United Fuel Treatment on top of the old and worn-out hot-dip galvanising layer on the transmission towers of the Formosa Plastics Company in Taiwan (turn key job). See the testimonial hereafter.



UNITED FUEL TREATMENT

12F-5, No.381, FU-HSING S. RD. SEC. 2, TAIPEI, TAIWAN, R.O.C. TEL: 886-2-2732-2567

FAX: 886-2-2738-5757

Date: APR. 10, 2000

ZINGAMETALL Industriepark VENECO Rozenstraat 4 9810 EKE.

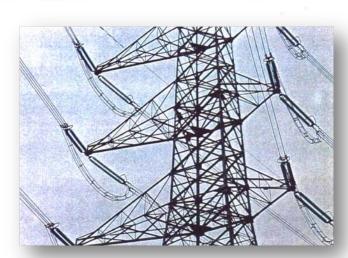
Dear sirs,

We hereby would like to confirm that we had used ZINGA on transmission towers with great satisfaction.

We used ZINGA on the 150 feet-high transmission towers which is located on the tidal site really being a very aggressive environment. We were only able to apply 2 layers ZINGA by brush on jobsite one year ago. Its unique anticorrsion property could be compared to hot-dip galvanization. The customers said that it can not be pealed off even hitted by a hammer and till now no maintenance has been necessary. We have full confidence in the protection of the Zinga which is expected to have a span of 10 years life. They also said that they have never seen such a good paint-liking system before. Therefore, they placed the second order with us this month.

Best regards,

Ken J. Chu Ren' De', Chu President







References

These pictures are showing the 345KV transmission towers of the Formosa Plastics Company, before and during the application on site. The towers are located in Mai-Liau in a very aggressive environment (tidal land). It is said that hot dip has a protection life of only +/- 11 months in this area.





KIEV ENERGO POWER PLANT - UKRAINE

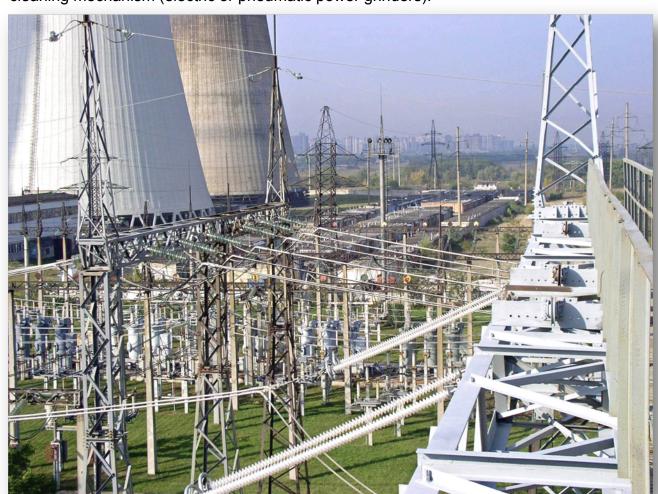


In 2003 the ZINGA distributor in Ukraine, KVVT, Vector Technologies, has signed a contract with Kiev Energo Power Plant (thermal electric power & heat plant nr. 6) for the anti-corrosion treatment of high-voltage power transmission line towers and supports that had been hot-dip galvanised in the late '70-s. The total surface to be coated with ZINGA was amounting to 1350 m².

System:

ZINGA $2 \times 50 \mu m$

The fact that the supports were originally galvanised, made the surface preparation and the application of ZINGA much easier. The residual hot-dip galvanising film thickness was about 50 to 100 μ m. Roughness was determined by sight or by touch and was found sufficient for application of ZINGA. The surface was prepared with the use of a manual cleaning mechanism (electric or pneumatic power grinders).







The ZINGA was applied by brush in 2 layers. The most critical areas were coated with 3 layers. The total ZINGA film thickness was 100-120 μ m. The total zinc coating thickness came to 180-200 μ m. The preliminary tests showed excellent adhesion of ZINGA to the old hot-dip galvanising coating.

Some of the application works were performed at a 45 m height.





EDEN GREENHOUSE DOME – UNITED KINGDOM

The Eden Greenhouse Dome is a botanical, biological theme park in St. Austel. It is the biggest greenhouse in Europe for plants and insects from tropical countries. The constant heat and humidity were the reasons for choosing hot-dip and ZINGA instead of conventional paint systems. Opening date: 01/06/2001.





For aesthetic reasons, ZINGA was overcoated with a vinyl aluminium paint.

ZINGA was used to repair the hot-dip galvanising layer (damaged during transport and assembling).

System:

ZINGA

1 x 60 µm

Vinyl Aluminium Paint





ZINGA

ZM-RE-PRO-04-A (01/08/06)

The film galvanising system Zinga is a one pack coating that contains 96% zinc in the dry film and provides cathodic protection to ferrous metals. It can be used as a unique system as an alternative to hot-dip galvanisation or metallisation, as primer in a duplex system or as a recharging system for hot-dip galvanisation or metallisation. It can be applied by brushing, rolling or spraying on a clean and rough substrate in a wide range of atmospheric circumstances. Zinga is also available as an aerosol and is sold as Zingaspray.

Physical data and technical information

Wet product

Components	zinc powderaromatic hydrocarbonsbinder
Density	2,67 Kg/dm³ (± 0,06 Kg/dm³)
Solid content	- 80% by weight (± 2%)
	- 58% by volume (± 2%) according to ASTM D2697
Type of thinner	Zingasolv
Flash point	≥ 40°C to < 60°C
VOC	474 gr/Lt (EPA method 24) (= 178g/Kg)

Dry film

Colour	matt metallic grey (colour darkens after contact with humidity)
Zinc content	96% (±1%) by weight, with a purity of 99,995% Zinga gives full cathodic protection and conforms to the standard ISO 3549 in regard to its zinc purity of 99,995 % and to the standard ASTM A780 in regard of its use as repair coating for hot-dip galvanisation.
Special characteristics	 atmospheric temperature resistance minimum: -40°C maximum: 120°C with peaks up to 150°C pH resistance in immersion: from 5,5 pH to 9,5 pH pH resistance in atmospheric circumstances: from 5,5 pH to 12,5 pH excellent UV resistance
Non-toxicity	A dry layer of Zinga is not toxic and can be used in contact with potable water, according to the standard BS 6920.



Packing

500 ml	aerosol
1/4 Kg	available as sample (on request)
1 Kg	available, packed in undividable boxes of 12 x 1 Kg
2 Kg	available, packed in undividable boxes of 6 x 2 Kg
5 Kg	available
10 Kg	available
25 Kg	available

Conservation

Storage	store in a cool and dry place
Shelf life	unlimited
	In case of long time storage it is recommended to shake the
	unopened tin in an automatic shaker at least once every 3 years.

Application data

• System recommendations

Unique system	 Zinga is used as a stand-alone system, applied in 2 or 3 layers to obtain a total maximum DFT* of 120 to 180 μm. This system is strongly recommended because of the easy maintenance. In time the layer will become thinner as the Zinga sacrifices itself due to the cathodic protection. A new layer of Zinga can be directly applied once the surface has been properly cleaned and it will re-liquidise and recharge the previous Zinga layer. The DFT of Zinga that should be applied depends upon the remaining Zinga layer. The system Zinga 2 x 60 μm DFT conforms to the standards: NORSOK M-501 syst. 7 ISO 12944-6: 2 x 60μm DFT ZINGA: C4-High, C5M-Medium and C5I-Medium 2 x 90μm DFT ZINGA: C5M-High and C5I-High
Duplex system	 In a duplex system, Zinga should be applied in one single application, preferably by spraying, to obtain a maximum DFT of 60 to 80 μm. The surface of the Zinga should be free of zinc salts and other contaminations prior to application of a topcoat. Zinga can be topcoated with a wide range of compatible sealers and topcoats. To avoid pinholes when topcoated, use the mist coat & full coat technique (meaning a standard diluted coat of 25 to 30μm DFT followed by a full coat of the same product).
Stripe-coat	It is recommended to apply a stripe-coat of Zinga by brush on all sharp edges, nuts and bolts and weld areas before the application of the first full layer of Zinga.
Recharging system	Zinga can be applied on top of a hot-dip galvanising layer, a metallisation layer or an old Zinga layer in order to renew or enhance the cathodic protection. The DFT of Zinga that should be applied depends upon the existing galvanising layer.

*DFT & WFT : dry film thickness and wet film thickness ; to be measured **above the peaks** of the roughness profile



• Coverage and consumption

Theoretical	- for 60 μm DFT : 0,28 Kg/m² or 0,10 Lt/m²
consumption	- for 120 μm DFT : 0,55 Kg/m² or 0,21 Lt/m²
Theoretical coverage	- for 60 μm DFT : 3,62 m²/Kg or 9,67 m²/Lt
	- for 120 µm DFT : 1,81 m²/Kg or 4,83 m²/Lt
Practical coverage	depends upon the roughness profile of the substrate and the
	application method

Environmental conditions during application

Ambient temperature	- minimum -15°C - maximum 40°C
Deletive levesidity	
Relative humidity	- maximum 95%
Surface temperature	- minimum 3°C above the dew point
	- no visual presence of water or ice
	- maximum 60°C
Product temperature	During application the temperature of the Zinga liquid must remain
	between 15 and 25°C. A lower or higher temperature of the product
	will influence the smoothness of the film when drying.

• Drying process and overcoating

Drying process	Zinga dries by evaporation of the solvent. The drying process is influenced by the total WFT, the number of coats applied, the ambient air and surface temperatures and the air circulation.
Drying time	for 40 µm DFT at 20°C in a well-ventilated environment: - touch-dry: after 10 min dry to handle: after 1 hour - fully cured: after 48 hours - ready for immersion: after 2 hours
Overcoating	 with a new layer of Zinga : brush : 2 hours after touch dry spray gun : 1 hour after touch dry with a compatible paint : after 6 to 24 hours depending on the drying conditions
Reliquidisation	Each new layer of Zinga reliquidises the former Zinga layer so that both layers form one homogeneous layer.



Instructions for use

Surface preparation

Ole e ell'e e	The condition of the district
Cleanliness	 The most common method to obtain a clean (and at the same time rough) surface for the application of Zinga is: The metal substrate should first be degreased, preferably by steam-cleaning at 140 bar at 80°C. After that it should be grit-
	blasted or slurry-blasted to cleanliness degree SA 2,5 according to the standard ISO 8501-1 or to the cleanliness degree described in the standards SSPC-SP10 and NACE nr 2. This means that the surface must be free from rust, grease, oil, paint, salt, dirt, mill scale and other contaminants. Once the grit-blasting is completed the
	surface should be de-dusted with non contaminated compressed air according to the standard ISO 8502-3 (class 2) or in case of slurry-blasting the surface should be dried with non-contaminated compressed air.
	 Another method to obtain a clean surface is UHP water-jetting to cleanliness degree WJ2 according to the standards NACE nr 5 and SSPC-SP12 level SC1. But keep in mind that this method does not create surface roughness.
	 This high degree of cleanliness is not needed when Zinga is applied on a hot-dip galvanisation or a metallisation layer, or when it is applied on top of an existing Zinga layer. Please consult with the Zingametall representative.
	 For substrates that will not be immersed Zinga can be applied on mild flash rust (FWJ-2) occurring in the allowed time limit. For applications that will be immersed Zinga can only be applied on an SA 2,5 prepared surface with contaminants to NACE No5/SSPC SP- 12 level SC1 unless otherwise agreed with the Zingametall representative.
	 On small areas or on non-critical applications Zinga can be applied on a surface that is manually prepared to degree St 3 according to ISO 8501-1. Please consult with the Zingametall representative.
Roughness	- Zinga should be applied on a metal substrate that has roughness degree Rz 50 to 70 μm (for total DFT < 280 μm) or Rz 60 to 80 μm (for total DFT > 280 μm) according to the standard ISO 8503-2. This can be obtained by grit-blasting (with sharp particles) but not by shot-blasting (with spherical particles). Make sure that the surface is degreased before the grit-blasting.
	 This high degree of roughness is not needed when Zinga is applied on a hot-dip galvanisation or a metallisation layer, or when it is applied on top of an existing Zinga layer. Please consult with the Zingametall representative.
	 On small areas or on non-critical applications Zinga can be applied on a surface that is manually prepared e.g. with a needle gun or a grinding disk, in order to obtain an adequate roughness for Zinga. Please consult with the Zingametall representative.



Maximum time to application	Apply the Zinga as soon as possible on the prepared surface in dry circumstances: depending on the location - in case of water-cleaning or if the relative humidity is close to 80%: max. 4 hours waiting time If contamination occurs before coating, the surface must be cleaned
	again as described above. Flash rust can be removed by means of a wire brush.

Special instructions

Stirring	 Zinga must be thoroughly stirred to achieve a homogeneous liquid before application. After a maximum of 20 min. re-mixing is necessary. During the spraying application, the product must be stirred continuously.
Dilution	Zinga can be diluted with 0 to 5% (volume on volume) of Zingasolv when using airless spray equipment and 0 to 25% for air supported applications. The Zingasolv must be added whilst stirring.
Rinsing of tools and equipment	Before and after using the spraying equipment, it must be rinsed with Zingasolv. Brushes and rollers should also be cleaned with Zingasolv. Never use White Spirit.
Special demands for spraying equipment	 Pour the Zinga through a filter of 100 mesh (150 µm) into the drum. For the spraying of Zinga, it is better to remove all filters from the pistol and from the drum to avoid blockage. The spray gun must be equipped with reinforced needle springs.

Application by brush and roller

Viscosity	Zinga is ready for use when applied by brush or roller. Do not dilute.
First layer	The first layer must never be applied by roller, only by brush, in order to fill the cavities of the roughness profile and to wet the surface.
Type of brush and roller	- short hair roller (mohair) - industrial round brush

Application by spraying with spray gun with gravity cup

Dilution	0 to 25% (volume on volume)
Spray viscosity	25 to 35 sec. Ford cup nr. 4 at 20°C
Pressure at the	2 to 4 bar
nozzle	
Nozzle opening	1,7 to 2,5 mm

• Application by spraying with spray gun with pressure pot

Dilution	0 to 25% (volume on volume)
Spray viscosity	25 to 35 sec. Ford cup nr. 4 at 20°C
Pressure at the nozzle	3 to 4 bar
Pot pressure	0,8 to 1,5 bar
Nozzle opening	1,7 to 2,5 mm



Application by airless spraying

Dilution	0 to 5% (volume on volume)
Pressure at the nozzle	± 150 bar
Nozzle opening	± 0,03 inch

Other application methods

Please consult with the Zingametall representative.

For more specific and detailed recommendations concerning the application of Zinga, please contact the Zingametall representative. For detailed information about the health and safety hazards and precautions for use, please refer to the Zinga **safety data sheet**.

Waiver¹

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^{*} The information on this sheet is merely indicative and is given to the best of our knowledge based on practical experience and testing. The conditions or methods of handling, storage, use or disposal of the product cannot be controlled by us and are therefore outside our responsibility. For these and other reasons we retain no liability in case of loss, damage or costs that are caused by or that are linked in any way to the handling, storage, use or disposal of the product. Any claim concerning deficiencies must be made within 3 months upon reception of the goods quoting the relevant batch number. We retain the right to change the formula if properties of the raw material are changed. This data sheet replaces all former specimens.



ALU ZM

ZM-RE-PRO-04-A (01/08/06)

Alu ZM is a quick drying one pack coating based on aluminium flakes. It can be applied either without primer on an old, non-corroded hot-dip galvanisation or metallisation layer or as topcoat on top of Zinga. It can be applied by brushing or spraying in a wide range of atmospheric circumstances. Alu ZM is mainly applied for esthetical reasons as it gives a nice aluminium aspect and has a good chemical resistance which allows it to be used in industrial environments.

Physical data and technical information

Wet product

Components	aluminium powderaromatic hydrocarbonsbinder
Density	1,01 Kg/dm³ (± 0,05 Kg/dm³)
Solid content	- 35% (± 2%) by weight - 25% (± 2%) by volume
Type of thinner	Zingasolv (does not contain xylene or MEK)
Flash point	≥ 40°C to < 60°C

• Dry film

Colour	aluminium
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Packing

1 L	available, packed in undividable boxes of 6 x 1 L
2,5 L	available
15 L	available

Conservation

Storage	store in a cool and dry place
Shelf life	unlimited
	In case of long time storage it is recommended to shake the unopened tin from time to time.



Application data

• System recommendations

As topcoat on Zinga	Alu ZM can be applied in 1 layer of 40 to 60 µm DFT as topcoat (by airspray or airless) on top of the anti-corrosion system Zinga on a metal substrate. Even though we always recommend maximum 60 µm DFT for Zinga in a duplex system, in combination with Alu ZM, the maximum layer thickness of Zinga is 120µm DFT in 1 layer applied by airless.
Stripe-coat	We recommend applying a stripe-coat of Alu ZM by brush on all sharp edges, nuts and bolts and welding areas before the application of the first full layer of Alu ZM.

• Coverage and consumption

Theoretical	- for 40 μm DFT : 0,16 L/m²
consumption	- for 80 μm DFT : 0,32 L/m²
Theoretical coverage	- for 40 μm DFT : 6,19 m²/L
	- for 80 µm DFT : 3,09 m²/L
Practical coverage	depends upon the application method

• Environmental conditions during application

Ambient temperature	- minimum -15°C
	- maximum 40°C
Relative humidity	- maximum 95%
Surface temperature	- minimum 3°C above the dew point
	- no visual presence of water or ice
	- maximum 60°C

• Drying process and overcoating

Drying process	Alu ZM dries by evaporation of the solvent. The drying process is influenced by the total WFT, the number of coats applied, the ambient air and surface temperatures and the air circulation.
Drying time	for 40 µm DFT at 20°C in a well-ventilated environment with at least 60% relative humidity: - touch-dry: after 25 min dry to handle: after 1,5 hour - fully cured: after 24 hours
Overcoating	 with a new layer of Alu ZM: 1 hour after touch dry Any intermediate coat contamination that could disturb the adherence of the next coat should be removed by appropriate cleaning.
Reliquidisation	Each new layer of Alu ZM reliquidises the former Alu ZM layer so that both layers form one homogeneous layer.



Instructions for use

• Surface preparation

Cleanliness	 When Alu ZM is applied on top of Zinga, the surface should be free of zinc salts and other contaminations. That means that the Alu ZM must be applied within 24 hours after the application of the Zinga. In case the application of the Alu ZM can only be done after 24 hours, the Zinga surface should first be washed preferably by steam- cleaning at 140 bar at 80°C.
Roughness	When Alu ZM is applied on top of a new hot-dip galvanisation layer, the surface should be roughened by blasting with wet inert product, by using Scotch Brite or a nylon brush.
Maximum time to application	Apply the Alu ZM as soon as possible on the prepared surface. - in dry circumstances: max. 24 hours waiting time - if the relative humidity is close to 80%: max. 4 hours waiting time If contamination occurs before coating, the surface must be cleaned again as described above.

Special instructions

Stirring	 Alu ZM must be thoroughly stirred to achieve a homogeneous liquid before application. After a maximum of 20 min. re-mixing is necessary. During the spraying application, the product must be stirred continuously.
Dilution	Alu ZM can only be diluted with Zingasolv.
Rinsing of tools and equipment	Before and after using the spraying equipment, it must be rinsed with Zingasolv. Brushes should also be cleaned with Zingasolv. Never use White Spirit.

Application by brush

Viscosity	Alu ZM is ready for use when applied by brush. Do not dilute.
Type of brush	- industrial round brush



Application by spraying with spray gun with gravity or suction cup

Viscosity	10 to 20% Zingasolv (volume on volume)
Pressure at the	2 to 4 bar
nozzle	
Nozzle opening	1,4 to 1,8 mm

Application by spraying with spray gun with pressure pot

Viscosity	10 to 20% Zingasolv (volume on volume)
Pressure at the	2 to 4 bar
nozzle	
Pot pressure	0,8 to 1,5 bar
Nozzle opening	1,4 to 1,8 mm

Application by airless spraying

Dilution	0 to 5% (volume on volume)
Pressure at the nozzle	100 to 200 bar
Nozzle opening	0,017 to 0,021 inch

For more specific and detailed recommendations concerning the application of Alu ZM, please contact the Zingametall representative. For detailed information about the health and safety hazards and precautions for use, please refer to the Alu ZM **safety data sheet**.

Waiver*

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ALUFER N

ZM-RE-PRO-04-A (01/08/06)

Alufer N is a moisture curing one pack polyurethane. Micaceous iron oxides create the special lamellar structure which create a very tight paint film

→ excellent water and corrosion resistance.

Alufer N can be applied as an intermediate and/or topcoat on Zinga.

Alufer N can be used for immersion in water, sea water and several chemicals.

Physical data and technical information

Wet product

Components	- micaceous iron oxides - aluminium silicates - magnesium silicates
Binder	moisture curing aromatic polyisocyanate prepolymers.
Density	1,52 Kg/L (± 0,05 Kg/L) at 20°C
Solid content	- 79% by weight (± 2%)
	- 66% by volume (± 2%)
Viscosity	105 KU (± 5 KU) at 20°C
VOC	300 g/L (= 198 g/Kg)

• Dry film

Colour	Grey	
Gloss	Mat	

Packing

1 L	available (per box of 6 L)
4 L	available
20 L	available

Conservation

Storage	2 years in the original, unopened package stored in a dry environment
	at temperatures between –20°C and +40°C.



Application data

Surface preparation

When the waiting time between the successive coats is abnormally prolonged or in extremely polluted areas, the primed surface can become contaminated. All contamination that hampers the adhesion of the paint should be removed by appropriate means.

Surfaces contaminated with oil and grease should be washed down with solvent, alkaline solutions or emulsifier.

Salt deposits or other water-soluble contaminations should be removed with water and brush, water under high pressure or steam. Possible white zinc rust on zinc dust primers should be removed with water and rigid nylon brush.

• Coverage and consumption

Theoretical coverage	- for 80 μm DFT: 7,5 m²/L - for 100 μm DFT: 6,0 m²/L - for 150 μm DFT: 4,0 m²/L
Practical coverage	depends upon the roughness profile of the substrate and the application method

• Environmental conditions during application

Ambient temperature	- minimum 0°C
	- maximum 35°C
Relative humidity	- minimum 30%
	- maximum 98%
Surface temperature	- minimum 3°C above the dew point

Drying process and overcoating

Drying time	for 80 µm DFT at relative humidity of 75%:
, ,	- 10°C: dustdry: 2,5 hours
	tackfree: 4 hours
	dry: 6 hours
	- 20°C: dustdry: 1 hours
	tackfree: 2,5 hours
	dry: 4 hours
	- 30°C: dustdry: 40 minutes
	tackfree: 1,5 hours
	dry: 3 hours
Overcoating	for 80 µm DFT at relative humidity of 75%:
	10°C: minimum: 24 hours
	maximum: 3 months
	20°C: minimum: 6 hours
	maximum: 1 month
	30°C: minimum: 4 hours
	maximum: 1 week
	Remark: At longer intervals a good cleaning is necessary to avoid
	intermediate coat contamination which could disturb the adherence of
	the next coat.



Instructions for use

Application by brush and roller

Dilution	5 to 10% with Zingasolv

Application by spraying with air

Dilution	10 to 20% with Thinner 41
Pressure at the	3 to 5 bar
nozzle	
Nozzle opening	1,2 to 1,5 mm

Application by airless spraying

Dilution	5 to 15% with Thinner 41
Pressure at the	100 to 300 bar
nozzle	
Nozzle opening	0,017 to 0,024 inch

Remarks

Stripe coat	It is always recommended to treat corners, sharp edges, bolts and nuts before applying a uniform coat.
Layer thickness	Recommended: 60 to 100 µm
	Maximum: 120 to 160 μm
Cleaning	With Zingasolv

For more specific and detailed recommendations concerning the application of Alufer N, please contact the Zingametall representative. For detailed information about the health and safety hazards and precautions for use, please refer to the Alufer N safety data sheet.

Waiver*

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