

KALVØYA BRIDGE – BÆRUM – NORWAY

In 1985 **ZINGA** was applied by brush on the steel structures of the **Kalvøya Bridge** located in the **inner Oslo fjord**. Paint gloves were used for the carrying cables.



In April 1995, **10 years after the application**, the Kalvøya Bridge was inspected by the controlling organism **Det Norske Veritas (DNV)**. On 1 December 1998 the **Bærum Kommune**, owner of the bridge, wrote this testimonial stating that the DNV found the Kalvøya Bridge in a good condition compared to the DNV inspection in 1985 on the previous coating system that had protected the bridge before refurbishing it with **ZINGA**.

In 1995 only 5 Kg of **ZINGA** were necessary for touch-ups on spots that had been mechanically damaged.



BÆRUM KOMMUNE
AVDELING LEVEKÅR
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Samferdsel - drift

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ROTORKONTROLL A/S
PB 31

2014 BLYSTADLIA.

Deres ref:
Jon-Ivar Hagen

Vår Ref:
614-730 /97-lhm

Dato
01.12.1998

BRIDGE TOO KALVØYA.

The Kalvøyabrua was inspected in April 1995 by det Norske Veritas Certification A/S.

Their comment in 1995 was that this bridge was in a good condition. Compared with the control in 1985 (another system for about the same period of time) the bridge was in a considerable better condition regarding corrosion protection of the steel parts and carrying cables.

It took 5 kg ZINGA to touch up the entire bridge for some small scratches, and this 10 year after the first treatment.

Med hilsen
Haakon Skogstad
Haakon Skogstad
Avd.ing

Leiv H. Moe
Leiv H. Moe
Avd.ing

In 1999 the **ZINGA** system has been accepted by the **Norwegian Ministry of Roads (SVV)** for the complete treatment of steel bridges, as stated in this letter of 04-06-1999 from Rotorkontroll.



T E L E F A X
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Til/To/An Zingametall	Telefax 00 32 93 855 869	Dato 040699
Att. Patrick Willemot		
Fra/From/Von J I Hagen		Antall sider inkl.denne 1

Dear Sirs,

Re.: "Kalvoeya Bridge" in Baerum, Norway

We refer to previous information with report as well as phonecall yesterday and have the pleasure in confirming that

Kalvoeya Bridges outside Sandvika in Baerum, Norway was in 1985 recoated by the Road Division of Akershus County and later taken over by the Council of Baerum. The specification has been approved by the norwegian Ministry of Transport (Brigde Department).

In 1999 the Zinga-System has been accepted as a system by the Norwegian Ministry of Roads for complete treatment of steel-bridges.

Hope that this confirmation will be at your satisfaction.

Best regards

ROTORKONTROLL A/S
Avd Teknisk/Kjemisk

Jon Ivar Hagen
Jon Ivar Hagen

In February 2010, **25 years after the application**, the layer thickness of **ZINGA** on the Kalvøya Bridge was measured.

The loss in layer thickness after 25 years was on average only 30 µm.





Viser til inspeksjon av Kalvøya Bru og Løkke bru 02.11.2012.

(...)

Tilstanden pr.d.d.er god uten synlig gravrust/erosjonsriner på tårn, bielker, kabler, heneestener og rekkverk, kun stedvis "overflaterust".

(...)

MVH
Sven Ola Johnsen
FROSIO-inspektør



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In November 2011, i.e. **26 years after application**, an inspection on the Kalvøya Bridge was done by **Sven Ola Johnsen (FROSIO inspector)**.

Extract:

"Good condition with no visible rust / pits on towers, beams, cables, hangers and railings, only locally "small rust spots".

