

## TERMINALS – BC FERRIES – CANADA

**BC FERRIES** is one of the largest ferry operators in the world, providing year-round vehicle and passenger service on 25 routes to 47 terminals, with a fleet of 35 vessels. They are an essential transportation link that connects coastal communities and facilitates the movement of people, goods and services.

The ferry ramps of the BC Ferry terminals Tsawwassen, Schwarz Bay and Horseshoe Bay (in aggressive marine environment), were protected with **ZINGA** between 1988 and 1992.



 **ENGINEERING**

**VILLHOLTH JENSEN & ASSOCIATES LTD.**  
CONSULTING ENGINEERS

May 22, 1998

**PACIFIC EVERGREEN INDUSTRIES LTD.**  
1480 14th Street  
West Vancouver, B.C.  
V7T 2S3

Attention: Mr. Maurits Vander Cruyssen

Subject: The ZINGA Cold Galvanizing System

Dear Sirs:

This is to confirm that we have specified the use of ZINGA on numerous projects since 1989.

We have used the system on ferry ramps and structural steel in industrial plants.

Our experience is that the system should not be used on structures to be submerged in salt water without a protective top coat. The system is excellent for use on all types of steel structures. We rate the system as good as hot dip galvanizing.

When the surface preparation and application are done to the specifications, we have had no complaints. And repair work after construction is never required even when chains and hooks are used during installation of the structures.

We have just completed a major project for a local grain elevator involving approximately 200 tonnes of steel structures. The ZINGA system was used on all major parts of the structures and hot dip galvanizing was used on the smaller components. It takes an expert to define which part has the ZINGA surface or the hot dip galvanizing surface.

Yours truly,

Villholth Jensen & Associates Ltd.

  
J.V. Jensen, P.Eng.  
President

This is a testimony from 05-22-1998, from "Villholth Jensen & Associates", an engineering firm.

Since 1998, inspections in 2002 and 2005 confirmed that **ZINGA** was still in good condition.

An inspection in 2011, **13 years after application**, confirmed that the dry film thickness of **ZINGA** had barely decreased, thanks to the formation of a passive barrier of zinc salts on **ZINGA**.

System:

ZINGA 2 x 40 µm DFT