

## GUARDRAILS – LTA – SINGAPORE

In 2004 **ZINGA** was specified for the rehabilitation of guardrails at ECP Service Road and Kampong Java Road. The guardrails belong to **LAND TRANSPORT AUTHORITY (LTA)**, and they were previously Hot Dip Galvanized and installed in 1994.

A combined length of 1 km of guardrails were Zingalized. Below you can see some pictures of the application of **ZINGA** that was carried out. To enable cathodic protection of the guardrails with a 10 year warranty against corrosion, the surface preparation team was first using mechanical power tools and wire brushes followed by water jetting to remove loose rust and contaminants. The application of **ZINGA** was first done by brush and then by roller.



System:  
ZINGA

2 x 40 µm DFT  
(brush & roller)





Condition survey of ECP SERVICE Road Rails in December 2017,  
**13 years after ZINGA application.**







Condition survey of KAMPONG JAVA Road Rails in December 2017,  
13 years after ZINGA application.







**Conclusion: after 13 years, ZINGA is still intact and NO Corrosion was found.**

