

20 year exposure test result in a general environment

[Objective]

Verify the anti-corrosion performance of ROVAL and Hot-Dip Galvanizing by an atmospheric exposure.

[Duration]

From: July 15th 2002, Reported: July 15th 2022

[Method]

In accordance with "JIS Z 2381(2001)

"General requirements for atmospheric exposure test"

Condition: Direct exposure with south face 30-degree.



Ref. Test station

[Test Piece]

Name	Size	Type of steel
Structural rolled steel (Middle grade sand-blasted)	300*150*1.6	JIS G 3101 (SS-400)
Hot-dip galvanized plate (JIS H 8641 HDZ55)	300*150*3.2	JIS G 3101 (SS-400)

[Location]

Japan Paint Inspection and Testing Association(JPIA) West Branch

[Evaluation Method]

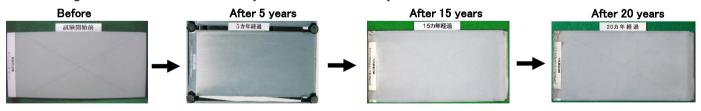
Evaluation by visual observation

[Result]

Evaluation after 20-year atmospheric exposure

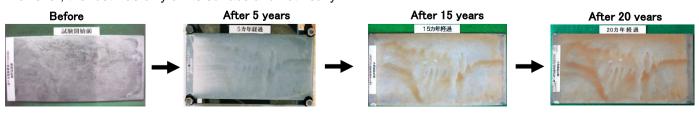
ROVAL (Film thickness: 80µm)

Color change of the film was seen but stayed without rust for 20 years.



Hot-Dip Galvanizing (HDZ55)

Rust occurred on gray zone, which is probably due to corrosion of ferrous of zinc-ferrous alloy layer. However, the rust was only on its surface and not heavy.



	ROVAL	Hot-Dip Galvanizing (HDZ55)
Before exposure	ack we 開始 的	a大块块用分价的
1 year	1 力年経過 angular angular	1 力年経過
3 years	3力年経過	3カ年経過 3カ年経過
5 years	5力年經過	5为年経過
7 years	7 力年経過 Hardward Andrews	7 力年経過 5.5. add 1.1.4. 5.5. add 2.1.4.
9 years	9力年経過	9力年経過 SHRHILING
11 years	11力年経過	11力年経過 or a France
15 years	15力年経過	15力年経過 Analasa
20 years	20カ年経過	20力年経過 Administration of the second of the

^{*}Bightness of the pictures are different.