

TESTS REPORT 8/47-1955
According to BS 1391-1952
19th July 1955

TESTS LABORATORY: Barent & Johnson
 4, New Court
 London W.C. 2
 U.K.

PRODUCER: **BIO-PROTECT SA**
Legal Office: Rue de l'Université 45 in 4000 LIEGE (BELGIUM)
Working Office: Rue Massart 4 à 5380 NOVILLE-LES-BOIS (BELGIUM)
 ☎ 00.32.81.83.42.77 – 📠 00.32.81.83.43.39

This is a summarizing chart of the full report

A. TEST METHODS and STANDARDS:

1) Samples:

Each series was tested in triplicate

Control panel	Surface preparation	Coating
- 1	Blasted Sa 2 ½	Rust Anode single coat (min 0,002 inch approx 50,8µm)
- 2	Blasted Sa 2 ½	Rust Anode double coat (min 0,004 inch approx 101,6µm)
- 3	Phosphated	Rust Anode single coat (min 0,002 inch approx 50,8µm)
- 4	Phosphated	Rust Anode double coat (min 0,004 inch approx 101,6µm)
		Control panels
- 5	Blasted Sa 2 ½	Galvanized (min 0,002 inch approx 50,8µm)
- 6	Blasted Sa 2 ½	Electroplated (min 0,002 inch approx 50,8µm)
- 7	Blasted Sa 2 ½	Red Lead primer (BS 1001 type 1) and top paint (DTD 260 B)
- 8	Blasted Sa 2 ½	Bare control panel

2) Methods and standards:

The tests were performed under supervision of Mr. M Barent B.Sc Ph D Consulting Chemist and Industrial Consultant in accordance with the British Standard 1391: 1952 (A.R.E. Salt Spray Test)

Each specimen was regularly inspected in order to assess the amount of rust and rust-staining. If these were 0,5 per cent (by area) or more, the specimen was judged to have failed.

The design of the atomizer and the composition of the spray solution were as specified.

The test was stopped at 2,000 hours.

B. TESTS:

The performance tests, which have been carried out, have been in continuous progress for more than 2,000 hours.

Samples were 6 x 4 inch, vertically suspended by glass hooks through 2 holes in the corners.

Each series was tested in triplicate at temperature within a range of 13°C to 21°C. (55°F to 70°F)

RESULTS SUMMARIZING CHART:

Control panel	Coating	Test results
- 1	Rust Anode single coat (min 0,002 inch approx 50,8µm)	After more than 2,000 hours still in good, serviceable condition.
- 2	Rust Anode double coat (min 0,004 inch approx 101,6µm)	After more than 2,000 hours still in good, serviceable condition.
- 3	Rust Anode single coat (min 0,002 inch approx 50,8µm)	After more than 2,000 hours still in good, serviceable condition.
- 4	Rust Anode double coat (min 0,004 inch approx 101,6µm)	After more than 2,000 hours still in good, serviceable condition.
	Control panels	
- 5	Galvanized (min 0,002 inch approx 50,8µm)	After more than 2,000 hours still in good, serviceable condition.
- 6	Electroplated (min 0,002 inch approx 50,8µm)	After more than 2,000 hours still in good, serviceable condition.
- 7	Red Lead primer (BS 1001 type 1) and top paint (DTD 260 B)	Rusted edges after 1,000 hours Failure after 1,800 hours
- 8	Bare control panel	Failure after 1 hour

C. RESULTS:

The bare control panels failed after 1 hour.

The red lead primed and painted controls have failed after 1,800 hours

All the panels with Rust Anode, both Rust Anode samples finished 1 and 2 coats, and all zinc coated control panels were still in good, serviceable condition after 2,000 hours.

The Rust Anode (even one coat) is providing an equal rust protection as galvanized and electroplated protection for at least 2,000 hours.
