

CORROSION TEST FOR LANDAU TOP MATERIALS

Application

This procedure is used to determine the corrosion inhibiting properties of landau top covering material, to prevent rusting of body sheet metal.

Apparatus Required

Oven

Mechanical convection maintained at 120 +/- 2 °C.

Water Bath

Able to accommodate 254 x 254 mm and containing tap water at 23 +/- 2 °C.

Wooden Rack

Solid mahogany rack to hold test panels. See drawing for dimensions.

Spray Equipment

For FLTM BI 103-02.

Steel Panels

254 x 254 x .80 mm uncoated C.R.S. panels available at:

Q Panel Company
15610 Industrial Park
Cleveland, OH

Panels are supplied 305 x 305 x .80 mm.

Note: The surface of the panels shall show no rust when examined using not less than a 4 power magnifying glass before starting test.

Strat-O-Lite available at Andrew Technical Supply, Chicago, IL, or equivalent. (Light Source - Circular - F68T9-CW-RS - Cool White Sylvania.)

Date	Action	Revisions
2001 09 10	Revised	Editorial – no technical change A. Cockman
1991 09 24		

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Photographic Reference Standards

ASTM D 610 available from:

ASTM
1916 Race Street
Philadelphia, PA 19103

Conditioning and Test Conditions

All test values indicated herein are based on material conditioned in a controlled atmosphere of 23 +/- 2 °C and 50 +/- 5 % relative humidity for not less than 24 h prior to testing and tested under the same conditions unless otherwise specified.

Test Procedure

1. Clean the steel panels with a suitable solvent such as M.E.K. or equivalent to remove all traces of rust proofing grease and oil and air dry.
2. Cut two 203 x 203 mm test specimens from each sample of landau top material.
3. Spray between 1.1 and 1.6 grams (dry weight) of current production adhesive uniformly to the back of the landau material to be tested and let dry a minimum of 20 minutes in a conditioned atmosphere, 23 +/- 2 °C and 50 +/- 5 % relative humidity.
4. Spray between 1.7 and 2.5 grams (dry weight) of the same adhesive (as in para #3) uniformly to the steel panels. After 30 seconds bond the precoated side of the landau top material to the center of the adhesive coated side of the steel panel by applying finger pressure uniformly over the vinyl surface.
5. Allow the assembly to air dry a minimum of 16 h in a controlled atmosphere of 23 +/- 2 °C and relative humidity of 50 +/- 5 %.
6. Place the test panels, vinyl side up, in a horizontal position in the wooden rack. Place the rack with the panels into the oven for 10 minutes with temperature at 120 +/- 2 °C.
7. Remove the rack with the test panels from the oven and within one minute immerse the test panels in water at 23 +/- 2 °C for two minutes. Have test panels in a horizontal position during immersion.
8. Remove the rack with the test panels from the water and allow to dry 48 hours at 23 +/- 2 °C and 50 +/- 5 % relative humidity.