

ADHESIVE VACUUM TEST FOR VINYL ROOFS**Application**

This procedure is used to measure the vacuum necessary to delaminate the vinyl outside top material from the metal roof panel.

Apparatus Required**Vacuum Pump**

The pump should be capable of creating a vacuum force of 85 kN/m² with a minimum displacement rate of 30 litres per minute. A control valve and vacuum gauge is required to regulate the rate and amount of vacuum.

Glass Funnel

Ribbed funnel, 150 mm dia. Must be capable of withstanding vacuum applied during test.

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.

Procedure

1. Place the vacuum funnel on the centre of the test panel or on the test vehicles roof as illustrated in Figures 1 and 2.
2. After obtaining a good seal, (funnel rim to roof material) increase the vacuum at a rate of 7 kN/m² per minute, until the specified amount of vacuum is reached, or the vinyl lifts and domes into the funnel (at least half of the surface area).
3. Report to the nearest 3.5 kN/m² the average of three readings. Roof assemblies should be tested in those three critical areas as shown in Figure 2. When a laboratory test is conducted, three separate test panels (300 x 300 mm) should be used.

Chemicals, materials, parts, and equipment referenced in this document must be used and handled properly. Each party is responsible for determining proper use and handling in its facilities.

Date	Action	Revisions
2001 09 24	Revised	Editorial – no technical change A. Cockman
1994 02 28		

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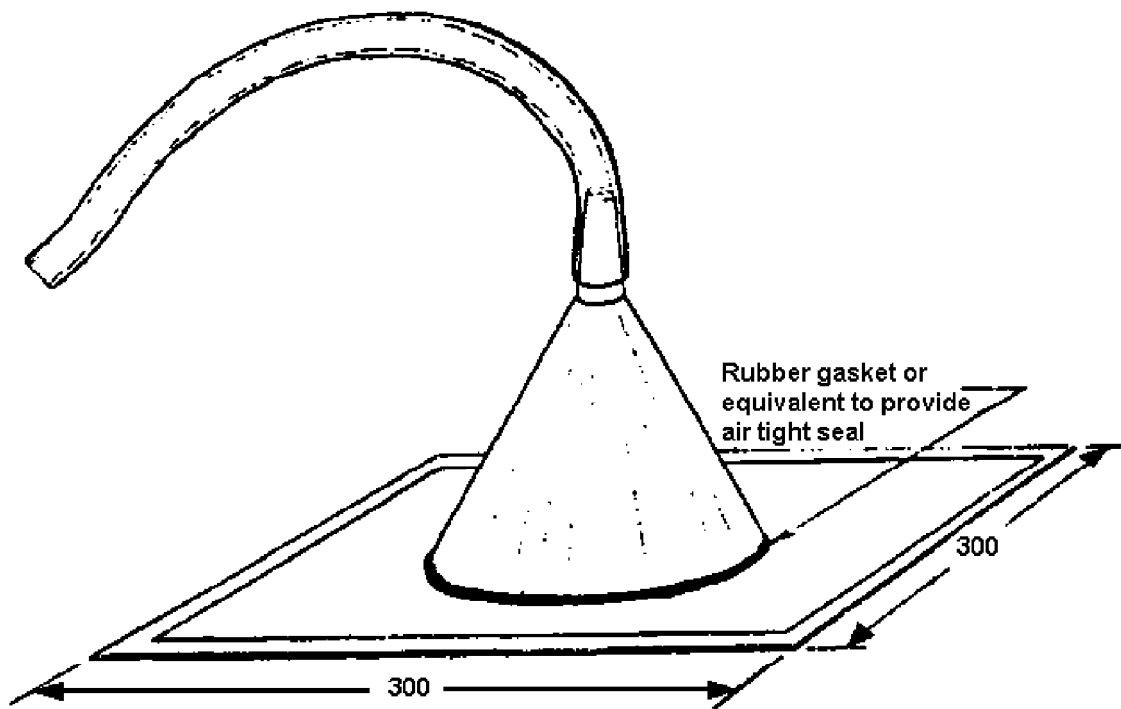


Figure 1