

**THE U.L. CLASS 90 RATING:**

The U.L. Class 90 Rating is an industry standard load test by which all metal panels are compared. This rating is granted by the Underwriter's Laboratories to those roof assemblies which have successfully completed the U.L. 580 Test Procedure For Uplift Resistance of Roof Assemblies, with Class 90 being the most severe case. Lesser ratings, such as UL 30 and UL 60 are also assigned where appropriate.

**DESCRIPTION OF THE U.L. 580 TEST:**

The U.L. 580 Test is four (4) hours in duration and subjects both top and bottom panel surfaces to oscillating or fluctuating loads. These oscillating or fluctuating loads range in pressures from sixteen (16) pounds per square foot (PSF) to one hundred and five (105) PSF of uplift, and are intended to test strength and resistance to fatigue failure of the roof assembly. The time duration and load magnitudes are representative of the long duration wind load phenomena which can be expected along the Gulf Coast and other coastal areas which experience severe winds and storms.

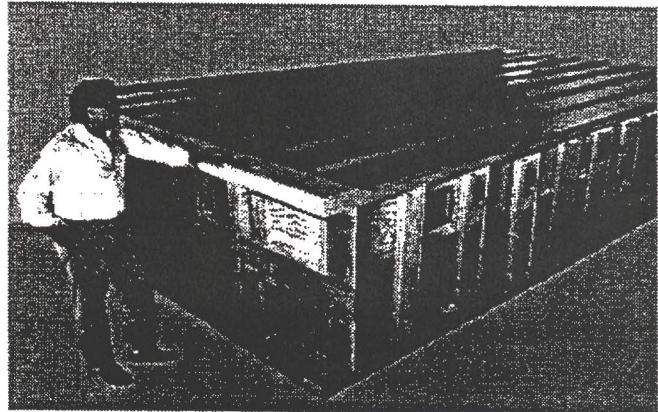
**THE IMPORTANCE OF THE ROOF ASSEMBLY:**

The Underwriters Laboratory Construction Numbers for Berridge Roof Panels listed on the Contents Page and on each individual assembly page of this publication are taken from the **UNDERWRITERS LABORATORIES ROOFING MATERIALS AND SYSTEMS** publication. These numerical designators are used to identify the tested parameters of a Class 90 Roof Assembly, using the particular Berridge roof panel to which the construction number has been assigned. It is important to note that all elements of the assembly must be present in order for the Rating Construction Number to be applicable for a given application. Parameters of these assemblies include (but are not limited to):

- Maximum Panel Width & Minimum Gauge.
- Purlin Minimum Gauge & Spacing.
- Solid Substrate Specifications.
- Fastener Type & Minimum Spacing.
- Insulation Type & Thickness

**THE BERRIDGE IN-HOUSE LIVE LOAD & WIND UPLIFT TESTING PROGRAM:**

In order to insure that each roof panel assembly will perform as specified, Berridge Manufacturing Company operates its own Air-Driven Test Chamber in Houston, Texas. The function of the chamber is to perform exhaustive in-house Live Load and Wind Uplift tests of both new and existing Berridge roof panel assemblies prior to formal testing at independent commercial testing laboratories. This in-house capability places Berridge in a position to accurately determine the loading characteristics of new panel designs during the actual development stage. In many instances, a letter of certification on a specific assembly, based on in-house testing will satisfy project requirements.



THE BERRIDGE TEST FACILITY PROVIDES FAST RESPONSE TO SPECIFIC PROJECT LOAD REQUIREMENTS FOR ANY BERRIDGE ROOF ASSEMBLY

**A NOTE TO SPECIFIERS:**

When specifying UL 90 or other ratings, be sure to obtain each manufacturer's Underwriters Laboratories Construction Number and either a Listing Card or a photocopy of the appropriate listing from the **UNDERWRITERS LABORATORIES ROOFING MATERIALS AND SYSTEMS**

