

April 27, 2001

Engineering Report 21093-2

Construction Metal Products, Incorporated
CMP Series 2500 16-inch Wide Panel
Galvanized Steel with 30-inch Clip Spacing
ASTM E1592 Uniform Pressure Test

SUMMARY

On March 12, 2001, testing was initiated on Construction Metal Products, Incorporated CMP Series 2500 G-90 galvanized steel roof panels to determine their loading characteristics under uniform static uplift loads. The panels were 16-inches wide with nominal 2-inch high ribs and were constructed of 24 gage, 50 KSI yield strength, Grade 50 steel. The panels were installed with 18 gage steel clips attached to the support purlins on spans of 30-inches using two fasteners per clip. The panels were tested with both ends open.

The panels were tested in accordance with ASTM E1592, "Standard Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference." The panels held a maximum one-minute interval load of 161.2 PSF. They failed at approximately 166 PSF when the clips pulled free from the support purlins between the third and fourth panels and the panels ballooned upwards. The seam itself remained closed during failure.

If you have any question or need additional information, please contact us.

Respectfully submitted,

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