

November 11, 2002

Engineering Report 22299-1

Construction Metal Products, Incorporated  
CMP Series 2500 18-inch Wide Panel  
Steel with 48-inch Clip Spacing  
ASTM E1592 Uniform Pressure Test

### **SUMMARY**

On October 15, 2002, testing was initiated on Construction Metal Products, Incorporated CMP Series 2500 steel roof panels to determine their loading characteristics under uniform static uplift loads. The panels were 18-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 48-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 98.8 PSF. The panels failed while going to the next higher pressure. The clips remained firmly attached to the support purlins.

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

Respectfully submitted,

Phillip B. Plyler  
Staff Engineer

Robert N. Kenney, P.E.  
Senior Staff Engineer

Christopher B. Shiver, P.E.  
Vice President – Principal Engineer