

Technical Bulletin #16c

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PREMIER SIPs & OFF-GASSING

Premier SIPs Structural Insulated Panels have been used in numerous applications where chemical sensitivity is a consideration. A common question that was asked in these application was “Do the panels emit any harmful gases such as formaldehyde?”

In an effort to definitively answer this question, Premier SIPs contracted with an independent, accredited testing laboratory to conduct formaldehyde testing. ASTM E1333, “Standard Test Method for Determining Formaldehyde Concentrations in Air and Emissions Rates from Wood Products Using a Large Chamber, Standard Face and Back Configuration” was conducted to determine, if in fact, any off gassing does occur. This ASTM test procedure is designed to measure the formaldehyde concentration in air based on the emission rate of newly manufactured products under conditions designed to simulate product use.

The sophisticated test equipment used to measure concentration levels in this test allow detection of emissions down to .03 ppm (parts per million). The result of Premier SIPs in this rigorous test for the formaldehyde concentration in the test chamber was “**Below Minimum Detectable Level**”.

This full scale testing of Premier SIPs demonstrates that Premier SIPs do not emit detectable amounts of formaldehyde.

One must realize that formaldehyde is found in nature and around us, all the time. Plywood and OSB are not going to cause most people any sensitivity problems. Major sources of formaldehyde typically found in the home are from particle board or pressed wood used in furniture, cabinets and shelving and carpeting.

Chemically sensitive individuals have occupied homes utilizing Premier SIPs and have had no reactions what so ever.