

Technical Bulletin #23b

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COMBUSTION TOXICITY OF PREMIER SIPS

Premier SIPS have undergone numerous fire tests for code recognition of our panels including ASTM E84 “Surface Burning Characteristics”, ASTM E119 “Hourly Testing” UL 1715 “Corner Room Burn” etc. Panels that have been in real life fire scenarios have also shown that panels hold up well in these events. However, the question regarding gasses that are produced during combustion still arises from time to time.

One must realize that when a material is burned, combustion gases are given off. In the case of Premier SIPS the primary gases given off are carbon monoxide, carbon dioxide and water vapor. These gases are found in many fires containing organic materials. These particular gases are around us all the time. In high concentrations or in the absence of oxygen asphyxiation can occur.

In fires the materials that compose the interior of the structure i.e. carpet, furniture etc. are the primary threat when considering toxic combustion gases. Premier SIPS, when burned, give off by products that are similar to those found when wood is burned.

The building codes have evaluated Premier SIPS and the panels have been found to meet the building codes criteria, which includes fire testing. In addition, our extensive fire testing allows Premier SIPS to carry the mark of Underwriters Laboratories Inc.