

To Whom It May Concern:

RE: Fire Resistance of QT and UL Metal Building Panels

Elite Buildings, Inc.'s QT and UL Metal Building Panels are constructed of 16 gauge and 20 gauge galvanized frame work respectively, 2 pef nominal density poured in place polyurethane foam core and 29 gauge or greater steel skins both inside and outside. The polyurethane foam is the only combustible material in the panels. The polyurethane foam used in the panels has a flame spread between 25 and 75 and a smoke development of less than 450, which has a flame rating of Class II in accordance with ASTM E-94 Surface Burning Characteristics of Building Materials. This is in compliance with Code Requirements for Foam Plastic Insulation, such as section 1712 of the Uniform Building Code (UBC) of the International Conference of Building Officials and Section 2002.1 of the Building Officials and Code Administrators (BOCA) International, Inc.

If no fire rating is required for the building and the proposed use, the panels can be erected as is. For applications in which fire resistance is required according to a local Building Code, special provisions must be taken. The two above mentioned building codes both require that the foam plastic have a thermal barrier placed on the interior wall to prevent or retard the passage of excessive heat, hot gasses or flames from reaching the foam insulation. A thermal barrier of ½ inch gypsum wallboard or equivalent material will limit the average temperature rise of the unexposed surface to not more than 250 F (121 C) after 15 minutes of fire exposure. For additional fire rating, the use of several layers of gypsum wallboard, or the use of more efficient thermal barrier would be required.

For additional information, please feel free to contact our office.

Sincerely,

Elite Buildings