



HELEN WATTS ENGINEERING

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March 13, 2012

Mr. Walt Juve
Dekko, LLC
40 Portland Pier #11
Portland, ME 04101

Re: 225 Industrial Way, Portland, Maine
HWE P/N 10-039

Dear Walt,

This letter is to provide additional information as requested by the City of Portland Codes Enforcement office for your project to use the paint spray booth in your building.

The Building Type is Type IIIA. This allows wood structural framing for the mezzanines. The building built in 2008 is sprinklered. The Commentary clarifies that load bearing exterior walls must comply with the higher of the values of Table 601 or 602, while nonbearing exterior walls need comply only with Table 602. The exterior walls are considered non-load bearing; the loads (other than self-weight) are taken by the steel framing. The wind loads are transmitted by the panels to the steel framing in the same way that glazing panels transmit wind loads; both are considered non-structural.

Chapter 15 of the International Fire Code defines Limited Spraying Space, Spray Booth, and Spray Rooms. 1504 specifies that Spray Booths be non-combustible, 18 gage single-skin, 20 gage double-skin, smooth interior surfaces, and personnel doors to be a minimum 30 inches wide and 80 inches high. Spray booths are to have a clear space of 3 feet around. Spray Booths may be closer to or directly against noncombustible outside walls or one hour rated interior walls.

The walls are sided with non-structural panels with an interior and exterior aluminum skin and a foam core. The exterior walls are Kingspan 300 GS Granitestone panels. See the attached document showing the technical data for this product. The panels are shown to have a Class 1 fire rating based on ASTM 4880; this corresponds to a 1-hour fire rating. This panel has a flame spread of less than 25 based on ASTM E84, and is therefore a Class A panel. The NFPA rating is A; the ICC construction type is A.

The exterior walls therefore are considered noncombustible and the spray booth may be placed against these walls.

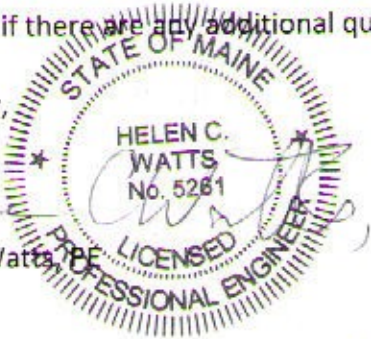


Further, the panels meet the requirements of Table 602, as required for a Type IIIA building.

Please call if there are any additional questions.

Yours truly,


Helen C. Watts, P.E.
Principal



Attached: 300_GS_Granitstone_Data_Sheet

e-c: Walt Juve, Jeannie Bourke, City of Portland, Inspections Office

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