



Jeanie Bourke <jmb@portlandmaine.gov>

Brighton Ave Hampton Inn

9 messages

Katherine Detmer <detmer@archetypepa.com>
To: Jeanie Bourke <jmb@portlandmaine.gov>

Mon, Mar 26, 2018 at 3:18 PM

Good Afternoon,

The Hampton Inn on Brighton Ave is under construction and they have decided to build with a panel system. Because of this we have run into a few areas that need revised details. One is in the attached sketch which shows how a non-bearing partition is attaching to the 1 hr corridor wall. I have sketched what we drew in our set and I have sketched what they would like to build based on how the panels are constructed. The owner wants to make sure that the detail still meets code. I wrote to:

Marc Rivard, PE, SE

Regional Director – MA, CT, ME, NH, NY, RI, VT

WoodWorks – Wood Products Council

And asked him his opinion on the change in the detail and his response was as follows:

I've seen this type of a detail used many times for your condition. 1.5" of thickness of blocking is good for 1 hour of fire resistance, the IBC points to the NDS for fire resistance, and chapter 16 covers it. Note that this is for non-structural blocking, which I believe you are specifying for the field change, structural members are analyzed slightly more conservative. The reason for the clarification on the ceiling penetration was that officials were more concerned with fire rising up and spreading, it shouldn't have been necessary but was added for that reason. A wall to wall application is usually not questioned, to our knowledge.

I was hoping you could let me know if this is okay by you. Laurie Leader was the reviewer on the project and Bill said he believes she is no longer working with the city and you were copied on the emails so I thought I would try you next.

Thanks,

Katherine


Katherine Detmer, Architect

Archetype Architects

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218K

Jeanie Bourke <jmb@portlandmaine.gov>
To: Katherine Detmer <detmer@archetypepa.com>

Wed, Mar 28, 2018 at 3:54 PM

Hi Katherine,

Can you please specify what the finished layers are on the panel wall are?

Thanks,
Jeanie

Jeanie Bourke
Code Enforcement Officer/Plan Reviewer
Team Leader

City of Portland
Permitting and Inspections Department
389 Congress St. Rm 315
Portland, ME 04101
jmb@portlandmaine.gov
(207)874-8715
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Katherine Detmer <detmer@archetypepa.com>
To: Jeanie Bourke <jmb@portlandmaine.gov>

Thu, Mar 29, 2018 at 7:30 AM

Jeanie,

The corridor wall is rated so that is a layer of 5/8" type x on each side. The partition meeting the corridor is an interior non-rated partition so that would have 5/8" gyp. The type X on the corridor would butt up against the stud connection.

Thanks,
Katherine

From: Jeanie Bourke <jmb@portlandmaine.gov>
Sent: Wednesday, March 28, 2018 3:55 PM
To: Katherine Detmer <detmer@archetypepa.com>
Subject: Re: Brighton Ave Hampton Inn

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government business may be classified as public records. There are very few exceptions. As a result, please be advised that what is written in an e-mail could be released to the public and/or the media if requested.

Jeanie Bourke <jmb@portlandmaine.gov>
To: Katherine Detmer <detmer@archetypepa.com>

Thu, Mar 29, 2018 at 9:46 AM

Good Morning,

Ok, thanks, I have reviewed the information you provided as an alternative design at the intersection of a partition at a rated wall membrane. The proposal is to interrupt the gypsum membrane rather than keep the continuity, by butting the partition to the rated wall using the char rate of the wood studs to maintain the fire resistance.

This code path is acceptable as stated in Sec. 721.1 for the calculated fire resistance of exposed wood members per Ch. 16 of NDS. The sketch you provided at this intersection should be further enhanced as shown in the attached tested wall assembly UL U305 as this further validates the charring method design option.

Please revise this sketch and I will file it with the approved permit documents for this project.

I appreciate you contacting me on this matter.

Best,
Jeanie

*Jeanie Bourke
Code Enforcement Officer/Plan Reviewer
Team Leader*

City of Portland
Permitting and Inspections Department
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 **BXUV.U305 - Fire Resistance Ratings - ANSI_UL 263.pdf**
79K

Katherine Detmer <detmer@archetypepa.com>
To: Jeanie Bourke <jmb@portlandmaine.gov>

Mon, Apr 2, 2018 at 3:48 PM

Good Afternoon,

I shared your response with both the owner and Bill.

At this point we're still going back and forth with the owner and wood panel company, who say that they used the attached detail many times across New England. The 2x6 + the 2x4 have 3 " of thickness which should rate about 2 hour by charring calculation in what is a 1 hour wall. The difference between the attached detail and UL U305 is 1-1/2" extension beyond the 2x4 as opposed to 1" extension in the attached detail. Not being an engineer I went to Marc Rivard PE of woodworks , an organization that provided expertise and consultation on wood fire resistant assemblies. He stated the attached was fine for the intersection of an unrated wall with a fire partition.

We are wondering your thoughts on this.

Thanks,

Katherine

From: Jeanie Bourke <jmb@portlandmaine.gov>

Sent: Thursday, March 29, 2018 9:47 AM

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Jeanie Bourke <jmb@portlandmaine.gov>
To: Katherine Detmer <detmer@archetypepa.com>

Mon, Apr 2, 2018 at 3:51 PM

Did you attached something? Just trying to understand all the references to "the attached".

Thanks

*Jeanie Bourke
Code Enforcement Officer/Plan Reviewer
Team Leader*

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Permitting and Inspections Department
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Katherine Detmer <detmer@archetypepa.com>
To: Jeanie Bourke <jmb@portlandmaine.gov>

Mon, Apr 2, 2018 at 4:02 PM

Jeanie,

Bill sent me that to forward to you and forgot to send me the attachment. He is gone for the day so I will get it from him in the morning and get it back to you. I apologize for the confusion.

Katherine

From: Jeanie Bourke <jmb@portlandmaine.gov>

Sent: Monday, April 2, 2018 3:51 PM

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Katherine Detmer <detmer@archetypepa.com>
To: Jeanie Bourke <jmb@portlandmaine.gov>

Tue, Apr 3, 2018 at 6:59 AM

Jeanie,

I checked with Bill and he just meant for me to attach our previous sketch which I have included here.

Thanks,
Katherine

From: Jeanie Bourke <jmb@portlandmaine.gov>
Sent: Monday, April 2, 2018 3:51 PM

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Jeanie Bourke <jmb@portlandmaine.gov>
To: Katherine Detmer <detmer@archetypepa.com>

Tue, Apr 3, 2018 at 11:26 AM

Hi Katherine,

Ok, this design is acceptable, the flanking 2x's may just be a typical detail for an intersecting partition to provide nailing. I will file this with the permit.

Thanks,
Jeanie

Jeanie Bourke
Code Enforcement Officer/LPI/Plan Reviewer
Team Leader

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