

**Ann Machado - Re: Fwd: Penthouse equipment**

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**From:** Liv Chase <livchase@yahoo.com>  
**To:** Ann Machado <AMACHADO@portlandmaine.gov>  
**Date:** 3/16/2015 5:53 PM  
**Subject:** Re: Fwd: Penthouse equipment

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Hi Ann,  
I didn't decide to put a deck yet, but the entire perimeter of the roof has either a parapet or railing that is 42" high and the roof will be made out of materials that allow for people to walk on the roof.  
Hope this helps.  
Thanks,  
Liv

On Monday, March 16, 2015 3:02 PM, Ann Machado <AMACHADO@portlandmaine.gov> wrote:

Liv -

One final question. Is there a deck on the roof for the tenants since the elevator goes up there?

Thanks.

Ann

Ann Machado  
Acting Zoning Administrator  
Planning & Urban Development  
Portland City Hall  
(207) 874-8709

>>> Liv Chase <livchase@yahoo.com> 3/16/2015 2:39 PM >>>

Hi Ann,  
There was no plan to have a wall between the stair and the mechanical room. The stair was to access the mechanical room.  
The elevator was intended to be access for the roof.  
-Liv

On Monday, March 16, 2015 2:28 PM, Ann Machado <AMACHADO@portlandmaine.gov> wrote:

Thanks Liv.

Is the "auxiliary space for the rooftop" where the heat pump is located going to be separated by a wall and door from the stair access area? Or is the stair access only for access to the mechanicals?

Is there a deck on the roof?

Ann

Ann Machado

Acting Zoning Administrator  
Planning & Urban Development  
Portland City Hall  
(207) 874-8709

>>> Liv Chase <livchase@yahoo.com> 3/16/2015 2:11 PM >>>

Hi Ann,

Thanks for the reply. As noted in the documentation provided, the heat pump water heater requires a minimum of 1000 cubic feet of space due to the intake of air. The unit itself is only 27" in diameter and 60" tall. If you need Evan to draw this in the space, I think he could most likely draw a circle.

Hopefully this answers your questions and you can sign off on our design, so that we can move forward.

Thanks,  
Liv Chase

On Monday, March 16, 2015 1:47 PM, Ann Machado <AMACHADO@portlandmaine.gov> wrote:

Evan -

Thanks for forwarding this information.

Plan A1.1 gives the dimensions of the fifth floor auxiliary space as 9'4" xs 15'3 5/8". I don't know anything about heat pumps but it seems like a big area for housing a heat pump. It would be helpful to have a diagram to scale showing the heating unit within the space.

Ann

Ann Machado  
Acting Zoning Administrator  
Planning & Urban Development  
Portland City Hall  
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>>> "Evan Carroll | Bild Architecture" <evan@bildarchitecture.com> 3/13/2015 10:03 AM >>>

Ann,

Please see the email below. Liv is intending to install a "heat pump" water heater in the penthouse.

As you can see, she sent me this awhile ago, and I forgot to send it on.

Thanks,  
Evan

----- Forwarded message -----

From: **Liv Chase** <livchase@yahoo.com>

Date: Tue, Mar 3, 2015 at 10:17 PM

Subject: Penthouse equipment

To: Evan Carroll | Bild Architecture <evan@bildarchitecture.com>

Cc: Brent Adler <brentadler@gmail.com>

Hi Evan,

Here are the tech specs for the mechanical equipment that will occupy the penthouse at 48 Hancock St.

We plan to use the penthouse as an area for our heat pump water heater that will be connected to our rooftop solar hot water array. We are using this area because of its close proximity to the solar hot water array. The room is the size that is constructed to account for the cubic volume that is required for the equipment. We may also need room for an additional supplemental hot water storage tank.

*Heat pump water heaters require installation in locations that remain in the 40°–90°F (4.4°–32.2°C) range year-round and provide at least 1,000 cubic feet (28.3 cubic meters) of air space around the water heater.*

See details on product:

<http://energy.gov/eere/energybasics/articles/heat-pump-water-heater-basics>

Here is a brochure on a model we are considering:

[http://www.stiebel-eltron-usa.com/pdf/brochure\\_accelera.pdf](http://www.stiebel-eltron-usa.com/pdf/brochure_accelera.pdf)

Regards,  
Liv Chase

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**Evan A. Carroll** AIA, LEED AP, Maine Licensed Architect  
Principal

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