

**From:** Timothy Lock <tim@gologic.us>  
**To:** Jean Fraser <JF@portlandmaine.gov>  
**Date:** 5/12/2014 11:22 AM  
**Subject:** Re: 97 Cumberland Avenue - level III Site Plan and Subdivision Review  
**Attachments:** 14-0512\_A606 CorTen\_Raw and Oxidized.JPG; 14-0512\_Rustwall Panel.JPG

Jean,

Distressing/oxidizing takes approximately 1-2 months in a costal climate. It would certainly be distressed before the project is complete.

The decision to use this finish/material was two-fold. As you know, we use super-insulated walls in all of our projects, so, the challenge is to have a finish light enough to be supported over 12" of rigid insulation on the building exterior. A metal panel works great for this since it is very light and cost effective (we also considered stucco as an option but there are other metal paneled buildings in the neighborhood and zero stucco buildings). Then, we chose the CorTen metal panel because it helped match the color and color variation of the brick buildings along Washington Ave. where this site is prominently visible due to the elevation above the 7-eleven.

This is the product we are proposing:

[http://www.cortenroofing.com/rustwall-trade-panel\\_8\\_1160\\_30805.html](http://www.cortenroofing.com/rustwall-trade-panel_8_1160_30805.html) (the pictures at the bottom have several images of the panels installed).

Also, I've attached a couple of images - the first is two A606-4 "Cor-Ten" Steel samples, one raw, the other fully oxidized. The second image is of a sample the Rust-Wall panel about two weeks into the oxidation process (same material, just pre-formed to the panel profile). After two months it will be fairly consistently the same color as the bottom sample in the first image.

A606-4 "Cor-Ten" steel is very simply a different steel alloy to standard structural carbon steel which promotes the natural development of consistent oxidation (rust) forming a protective, weatherproof film on the metal's surface which resists the corrosive effects of rain, snow, etc. negating the need for highly toxic paints and long term maintenance of said paints.

Thanks - and let me know if you need more info.

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On May 12, 2014, at 10:43 AM, Jean Fraser <JF@portlandmaine.gov> wrote:

> Tim  
>  
> Sounds good.  
>  
> How long does it take to get "distressed"?  
>  
> May be you could explain that choice of cladding as I wouldn't have thought the rusting contributes to its thermal characteristics!!!  
>  
> thanks  
> Jean







