



Heath Construction, LLC dba Saunders
 Heath
 PO Drawer H
 Fort Collins CO 80522 USA

Request For Information

RFI-005

Printed On: 03/03/2021

Page 1 of 1

Subject: Intumescent Painting Scope Confirmation

Date: 03/03/2021

Project: CSU Mountain Campus Research

Job: 20031041

Address: 16321 Pingree Park Rd
 Bellvue CO 80512

Required: 03/10/2021

Phone: **Fax:**

Est. Cost Impact : \$

Est. Days Impact:

To: Samuel Palmer-Dwore
 Hord Coplan Macht

From: Saunders Heath Cory Surbrugg

Co-Author:

Contact:

Co-Author RFI Number: #1

Reference:

Specification Section:

Drawing:

Posted to Asbuilts:

Discipline:

Request

Ref: Email attached.

Please confirm the following statement from an email dated 1/25/2021 is acceptable:

"It is confirmed by the code reviewer and inspector (Safebuilt) that intumescent paint is only required at the exposed locations of connections. The concealed areas (i.e. inside area of bolt holes, inside portions of connections, knife plates, etc.) do not need to be coated with intumescent as they will be embedded within the calculated char layer. There are a few scenarios where the exposed steel may be difficult to post-apply the intumescent (i.e. column bases, etc.), but since these are exposed they will require full 2-hr thickness of intumescent paint."

Thank you!

Answer

THIS ABOVE STATEMENT REGARDING INTUMESCENT PAINT IS CONFIRMED. -HCM

Answered By:

Signed: SAMUEL PALMER-DWORE -HCM

Date: 3/4/2021

Distribution:

Contact	Company
Amanda Disney	Saunders Heath

From: Samuel Palmer-Dwore <spalmerdwore@HCM2.com>
Sent: Monday, January 25, 2021 12:28 PM
To: Amanda Disney; LukeR@lamwood.com; Cory Surbrugg;
Michael@lamwood.com; Travis Bostic; KSchurter@klaa.com
Subject: RE: CSU Mountain Intumescent Discussion

Categories: RFI's

This message originated outside of Saunders Construction. Even if this looks like a Saunders e-mail, it is not.

Hi Team,

It is confirmed by the code reviewer and inspector (Safebuilt) that intumescent paint is only required at the exposed locations of connections. The concealed areas (i.e. inside area of bolt holes, inside portions of connections, knife plates, etc.) do not need to be coated with intumescent as they will be embedded within the calculated char layer. There are a few scenarios where the exposed steel may be difficult to post-apply the intumescent (i.e. column bases, etc.), but since these are exposed they will require full 2-hr thickness of intumescent paint. I hope this clarifies the >90% of the conversation as was discussed this morning. Please let us and/or KL&A know if there are any other issues we can discuss and get ahead of RFI's on this.

Thank you,
Sam

Samuel Palmer-Dwore, AIA

HORD COPLAN MACHT

1800 Wazee Street, Suite 450
Denver, CO 80202
303.607.0977 main
303.996.1171 direct
www.hcm2.com

From: Amanda Disney <a.disney@saundersheath.com>
Sent: Monday, January 25, 2021 9:54 AM
To: Samuel Palmer-Dwore <spalmerdwore@HCM2.com>; LukeR@lamwood.com; Cory Surbrugg <c.surbrugg@saundersheath.com>; Michael@lamwood.com; Travis Bostic <TBostic@hcm2.com>; KSchurter@klaa.com
Subject: CSU Mountain Intumescent Discussion

Thanks, all for joining our call this morning to discuss CSU Mountain. Below are my notes and list of our few action items as a result.

Luke and Michael – please send RFI's and/or shop drawings as they become ready for review to myself and Cory Surbrugg and we'll distribute to the team.

Thanks, again!



Amanda Disney

Project Manager

1212 Riverside Avenue, Suite 130, Fort Collins, CO 80524

d (970) 490-8071 **o** (970) 221-4195 **m** (720) 666-4929

A.disney@saundersheath.com

www.saundersheath.com

CONFIDENTIALITY NOTICE: This email transmission, and any documents, files or previous email messages attached to it, may contain confidential information, some or all of which may be legally privileged. If you are not the intended recipient or a person responsible for delivering it to the intended recipient, please be advised that any disclosure, copying, distribution or use of any of the information contained in or attached to this email transmission is prohibited. If you have received this email transmission in error, please immediately notify us by reply email or via telephone, and destroy the original email transmission and its attachments.

CSU Mountain Intumescent Discussion

Meeting Subject: CSU Mountain Intumescent Discussion








Meeting Date: 1/25/2021 9:00 AM

Location: <https://saundersinc.zoom.us/j/98885524240?pwd=NFJKajluamFoYTIIRzRISUlpcVdYZz09>

Link to Outlook Item: [click here](#)

Invitation Message

Participants

-  [Amanda Disney](#) (Meeting Organizer)
-  [Samuel Palmer-Dwore](#) (Accepted in Outlook)
-  [Luke Ringenberg](#) (Accepted in Outlook)
-  [Cory Surbrugg](#) (Accepted in Outlook)
-  [Michael Levy](#) (Accepted in Outlook)
-  [Travis Bostic](#) (Accepted in Outlook)
-  [Kyle Schurter](#) (Accepted in Outlook)

Questions from Lamwood:

- Intumescent paint is typically only applied to exposed steel, and that steel that is surrounded by wood is considered to be protected by the wood fiber from heat / flames. (The charring of the wood surrounding any concealed steel must occur and burn through before the steel becomes exposed to direct flame). This would be the first project we've seen it utilized in concealed applications, so there are some detailing and erection issues that might come up that we'd like to clarify.

- It appears that on the structural detail sheets that the intent is to have intumescent paint applied to most all of the steel – both concealed and exposed. This includes kerfed knife plates, bolts, etc.
- Intumescent paint has to have a certain thickness associated with the required # of hours trying to be achieved (EG – 35 mils, 50 mils, etc.). It's not uber durable (not supposed to be exposed to moisture, it can scratch or get knocked off fairly easily), and our concern is that there will be some issues with maintaining the required mil thickness as it's subjected to shipping, handling, and erection. 2 hour rating - mil thickness? 50?
- If we are to have a certain mil thickness, the fabrication of the wood will need to accommodate this (all bolt holes would be oversized, all kerf cut widths will get wider, etc.). Do these oversized holes and kerfs create structural issues? For example consider detail 7 on S-402.
 - Should bolt holes be oversized? If so, before bolts are engaged there will be more significant movement in the structure and associated crushing of the paint before the bolts are actually engaged if we fabricate for "thicker" steel when accounting for the steel plus the paint plus the tolerance to *not* knock off the paint.
 - At the interface between the top and sides of a painted cap plate and knife plate, should the column fabrication consider the paint mil thickness plus 1/8" or 3/16" all sides? The mil thickness will not be totally perfect, and it's difficult not to "knock" the paint off when setting the column, so some extra tolerance would be necessary.

Response/action Items:

- Sam confirmed that it is the design team's understanding that the intumescent coating shall only apply at **exposed** steel connections. Do we need to confirm with the plan reviewer? What document did we get that noted this? STEEL concealed or protected by wood not required to be coated. Only exposed surfaces need to be painted/coated... **NEED TO CONFIRM WITH STATE.**
- RFI's forthcoming** for all other questions from Lamwood (or clouded questions on shop drawings would be fine as well).
- Basis-of-design for fireplaces (flue) - design team/Saunders Heath to share with Lamwood.

Other questions that were briefly discussed:

- 7/S-403 bevel question - Kyle to review/advise.
- 2/S-404 bevel question - 6'-3" and 6" dimensions to remain consistent.
- 3/S-404 exposed detail - OK as-is? Yes. Insulation and adhered masonry to cover.
- 1" standoff for finishes - CHANGE to 1-1/4" from top of gypcrete to account for any/all other floor finishes.
- Consistency of connections is critical. Bolts vs. pins. **AGREED TO MAINTAIN CURRENT BOLT CONNECTION DETAILS.**
- Lamwood tracking for mid-June delivery for CLT. Amanda/SH confirmed this is still OK per current schedule update.