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# Request for Information

**M-R RFI No.:** Bidding-004

**Request Date:** 1/17/2017

**RFI Title:** Bidding RFI's

**Contractor/Supplier:** Merit, Inc.

**RFI Type:** Bidding

**Response Due Date:** 1/20/2016

**M-R Project No.:** 0499-0079

**Priority:**

**M-R Project Name:** East Orange VAMC – HVAC Deficiencies

**Critical Path Item:**

Yes  No  N/A

**Attachments Included:**

Yes  No

**Contract/PO Change Required?**

Yes  No

**Reference**

*Customer Project No.:*

*CSI-Division:*

*Contract/PO No.:*

*Drawing:*

*Other:*

**Requested Information:**

**Spec. Section: 23 07 11 (HVAC and Boiler Plant Insulation)**

1. In section 23 07 11, page 1, section Part 1.1, subsection b #12, vapor retarders shall have a maximum published permeance of 0.1 perms and vapor barriers shall have a maximum published permeance of .001 perms. Typical water vapor permeance for standard brands such as Knauf and Manson, are at .02 perms. Mastics, such as Childers cp 35, are at .09 perms. Also in part 2.9, page 9, insulation facing and jackets item a, calls for .02 perms or less. Are the industry standard brands and materials acceptable with a .02 perm on jackets and .09 perm on mastics?
2. In section 23 07 11, page 11, Part 2.11, calls for 180 degree high density insulation in saddles but then shows a chart of hamfab high density blocks. Are high density blocks allowed or must we use 180 degree hard insulation?
3. Outdoor duct jacket calls for 3 different materials. The 1<sup>st</sup> for a multilayer vapor barrier – would this apply to ventureclad cw 1577 or equal? 2<sup>nd</sup> is glass fabric and mastic and the third is on the drawings epdm. Is ventureclad acceptable to use for roof duct?
4. In section 23 07 11, page 28, Chw pipe calls for flexible elastomeric or polyisocyanurate insulation. During the site visit, only fiberglass insulation was noticed. Is replacing the existing acceptable?
5. There is no material specification for cooling tower pipe outside. Is 2" fiberglass insulation with pvc fittings and 016 aluminum jacket acceptable?

**Suggested Solution:**

1. Contractor to provide insulation facing and jackets which comply with Part 2.9.
2. Contractor to provide for cold pipe, the pre-molded pipe insulation of 180 degrees per 2.11.A a minimum length called out in the associated table. Warm or hot pipe shall be per supplied per section 2.11.B.
3. Contractor to ensure that the final outdoor jacket cover is the EPDM covering which matches the existing roof mounted ductwork. No name brand equipment will be evaluated until the project is awarded.
4. The insulation Thickness chart on pages 27 and 28 identify four (4) insulation types for chilled water piping. Contractor to provide these as identified in the contract documents. Fiberglass insulation is not one of the identified insulations for chilled water.
5. Yes the identified 2" mineral wool insulation with PVC fittings and aluminum jacket in compliance with section 2.9.H is acceptable, since the condenser water pipe is heat traced.

**RFI Response:** (Attachments Yes No)

**Response Date:** 1/20/2017

*Attachments:*

*Distribution:*