

cc: BBA- Mr. Smith
CE- Mr. Nolfi
CE- Mr. Johnson

MEMORANDUM

In Reply to _____ Date 9/27/76 From BBQ To MB- Mr. Clay
Subject SCITUATE HIGH SCHOOL, SCITUATE, MASS.
BURGESS AND BLACHER, AVON, MASS.

PLAINTIFF'S EXHIBIT

BIR-899

In reply to your memorandum of 9/22/76 on the above subject, I will answer your questions as follows:

1. I would not accept as bondable the Burgess & Blacher proposal as outlined in the first paragraph of your 9/22/76 memo, namely pitching all-weather Crete over a vapor barrier and then 1" Upjohn's U-Thane 200 plus Bird Specification C-AB-2-15A.
2. I do not believe that we should accept the use of the U-Thane 200 over the All Weather Crete whether a vapor barrier is used or not.
3. As stated in my memo of 9/23/76, it is my recommendation that the roofing membrane be applied directly to the All-Weather Crete with no in-between layer of urethane roof insulation. If this is done and the letters outlined in my 9/23 memo obtained from Scolite and Selbrico I see no reason why we shouldn't issue a bond.

CAHoman/rp



MEMORANDUM

In Reply to

To C. A. Homan - BBQ ✓
From D. R. Clay - MB
Date 9/22/76
Subject SCITUATE HIGH SCHOOL, SCITUATE, MASS.
BURGESS & BLACHER, AVON, MASS.

Attached please find:

1. Your memo of September 20, 1976
2. A letter from Burgess & Blacher regarding the above school, dated September 9.
3. Letter from Burgess & Blacher regarding the above school, dated September 17.

Burgess & Blacher proposes the application of All-Weather Crete on the area III of the Scituate High School job. This proposal would mean removal of existing roofing and insulation down to the existing vapor barrier. Replacement proposed is pitching All-Weather Crete over a vapor barrier and then, 1" Upjohn U-Thane 200 plus Bird's Specification #C-AB-2-15A. Would you accept this application as bondable?

In your memo of September 20, you state that Upjohn specifies that a vapor barrier is mandatory over fill-type decks. I would think if this is Upjohn's written specification, it would be required even though Harvey Bigham, the Upjohn Representative, is reported to have said, "no anticipated problem" would result and he, "would confirm this." What would your requirements be if Upjohn confirms this in writing?

Another question - it is possible Burgess & Blacher may propose eliminating the U-Thane 200 and applying Bird's Specification C-AB-2-15A directly over the All-Weather Crete. Would you accept this as bondable.

Upon receipt of your opinions on the above, this office will notify Burgess & Blacher in writing what Bird requires prior to the issuance of a bond on Area III of the Scituate High School.

JK/3095
cc: D. Nolfi
Gordon Johnson - CE

cc: MB- Mr. Clay
BBA- Mr. Smith

MEMORANDUM

In Reply to _____ Date 9/20/76 From BBQ To CE- Mr. Nolfi
Subject SCITUATE HIGH SCHOOL: ALL WEATHER CRETE

In reply to your speed letter of 9/17/76 on the above subject, I discussed the advisability of using urethane insulation mopped to All-Weather Crete with Mr. Hefferon of Scolite. He told me that the use of the urethane mopped to the All-Weather Crete was not the normal procedure and that he did not recommend the use of urethane over the All-Weather Crete.

Also in Upjohn's brochure entitled "Roof Insulation Specifications using CPR U-Thane 200 Roof Insulation" on page 5, paragraph 4.1, it states that a vapor barrier is mandatory over fill-type decks, including asphalt-Perlite fills, receiving CPR U-Thane 200 Roof Insulation.

In view of the above, I would not recommend bonding a roof applied as outlined by Burgess & Blacker, that is, mopping U-Thane 200 directly to the All-Weather Crete followed by the built-up membrane.

We should not consider bonding any membrane over U-Thane 200 unless all of Upjohn's specifications are met.

If you have any questions, please let me know.

CAH

CAHoman/rp

BURGESS & BLACHER COMPANY



SINCE 1915

INDUSTRIAL AND INSTITUTIONAL ROOFING · WATERPROOFING AND METAL FABRICATION

September 9, 1976

Bird & Son
Washington Street
E. Walpole, Mass. 02032

RE: Scituate High School
Area III

Attention: Mr. Dennis Nolfi

Gentlemen

Enclosed is a self explanatory copy of a letter I sent to Gerry Doherty which proposes All Weather Crete covered with a 1" layer of Uthane 200 mopped in steep asphalt followed by the specified and approved Bird 3 ply asbestos gravel surface built-up roof as the only viable system for Area III.

✓ I have reviewed the application of the Uthane 200 with Harvey Bigham, the Upjohn Representative. He indicates no anticipated problem and will confirm this to me.

I understand from Scolite, the All Weather Crete Applicator, that Bird, as well as GAF, Celotex, Koppers and Johns-Manville considers All Weather Crete to be a bondable substrate even without a top covering of approved roof insulation. Since we would ultimately be installing the built-up roof here over Uthane 200, the application is the same as the rest of the job.

I need confirmation from you that the proposed solution is a bondable application.

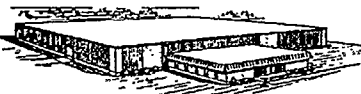
Very truly yours

BURGESS & BLACHER COMPANY

John A. Whitney

JAW/kd
enclosure

cc: Walter Coutu - Atlas Insulation
Harvey Bigham, 31 Church St., Mattapoisett, MA 02739



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BURGESS & BLACHER COMPANY



SINCE 1915

INDUSTRIAL AND INSTITUTIONAL ROOFING • WATERPROOFING AND METAL FABRICATION

September 17, 1976

Bird & Son
Washington Street
East Walpole, Mass. 02302

RE: Scituate High School
Area III, Tapered Insulation

Attention: Mr. Dennis Nolfi

Gentlemen

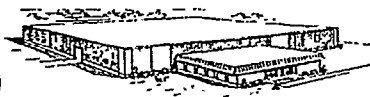
We have carefully reviewed and re-reviewed the tapered insulation/levelling course on Area III. The specified system which involves either using a levelling course followed by tapered insulation or a tapered system with an integral levelling course is not practical for these reasons.

(1) Levelling course followed by tapered insulation. In order for any levelling course to conform to the existing deck irregularities and still yield a level surface, a "plastic" material (i.e. a wet mix fill such as lightweight concrete fill or trowelled on levelling mastic) must be used. None of the available systems meet the criteria of:

- (a) Adhering to existing deck/vapor barrier.
- (b) Providing a compatible substrate to receive the roof insulation/roofing system.
- (c) Cost.
- (d) Acceptable for Roof Bond Issuance.

(2) Tapered Insulation with integral levelling course. This system as originally conceived involves custom fabrication of every piece of insulation and then "shaving" the resultant irregular top surface to yield a sloped, proper roofing substrate. This is not practical because there is no proven field method to shave the urethane. We have tested several techniques unsuccessfully. Also this concept requires covering the insulation with roofing daily. The daily coordination of removing the existing roof, installing tapered insulation and leveling it, applying new roofing and maintaining continuity of roof slope is not practical.

In short, prefabricated tapered insulation board systems are only feasible when there is an essentially flat or positively sloped deck to start with. This is not the case in Area III.



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Bird & Son
September 17, 1976

We, therefore, propose the following alternate system.

Tapered Insulation - All Weather Crete Fill as applied by Scolite Corporation. The All Weather Crete will be applied after the existing roofing and insulation are removed from all of Area III and after the existing vapor barrier is buttressed as required to keep the building tight.

The proposed All Weather Crete has a K value of .40. Prior to installing the built-up roof, a 1" layer of Upjohn Uthane 200 K.13 will be mopped to the All Weather Crete. This system yields an excellent thermal value. The perimeter wood nailers will be adjusted to the proposed fill and insulation thickness.

You have information on All Weather Crete.

Built-up Roofing - Bird Specification #C AB-2-15A. This is the same system we are using over the tapered Upjohn Urethane. As we discussed, we need a letter from you to send to the Architect indicating that this proposed system is acceptable to you.

Very truly yours

BURGESS & BLACHER COMPANY

John A. Whitney

JAW/kd