



**Department of Planning,  
Zoning & Building**

2300 North Jog Road  
West Palm Beach, FL 33411-2741  
(561) 233-5000

Planning Division 233-5300  
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March 15, 2013

Mr. Richard Browdy, Building Commission Chairman  
Dept. of Business and Professional Regulation  
2555 Shumard Oak Boulevard  
Tallahassee, Florida 32399

Dear Mr. Browdy:

As we briefly discussed by telephone this afternoon, while researching our records, we recently realized we never received a response or acknowledgement from Florida Building Commission that the Commission had ever received the attached correspondence from the Building Code Advisory Board of Palm Beach County. Accordingly, we are forwarding this matter to your attention for review and consideration. We have attached supporting documentation and photographs as well as contact information from Mr. Smith who initially brought this matter to our Board's attention.

Thank you for your assistance in this matter. Please feel free to contact me directly about this, or any other matter.

Sincerely,

Doug Wise  
Building Division Director / Building Official  
[DWise@pbcgov.org](mailto:DWise@pbcgov.org)

# BCAB

Building Code Advisory Board of Palm Beach County

July 27, 2012

Department of Business and Professional Regulation  
Building Codes and Standards  
2555 Shumard Oak Boulevard  
Tallahassee, Florida 32399-2100  
Attn: Dick Browdy, Building Commission Chairman

Dear Mr. Browdy:

I hope that this letter finds you well. I am writing you today to request your assistance in a perceived matter of public concern, on behalf of the Building Code Advisory Board of Palm Beach County.

As is reflected in the attached minutes, during the May 18, 2011 meeting of the Building Code Advisory Board of Palm Beach County, the Board heard testimony and viewed photographs presented by Eric Smith (CCC044900) a local Roofing Contractor, regarding unusual patterns of corrosion he had observed on fasteners that had been utilized to secure metal ridge vent systems on shingle roofs. During this testimony Mr. Smith presented several types of manufacturer supplied fasteners and reported that the instances of severe corrosion were fairly consistent, specifically with the use of electro-galvanized fasteners, even when such fasteners had been manufacturer supplied and installed per the manufacturer's directions.

The Board discussed this matter again on September 21<sup>st</sup>, 2011 as reflected in the attached minutes. Joe Byrne (CCC1325909), a BCAB Board Member, local Roofing Contractor, Roofing Consultant, and Roofing Industry Representative offered testimony that he had received anecdotal reports of similar corrosion failures, but that industry members were often reluctant to discuss specifics of these failures, perhaps in fear of the possibility of inviting repair claims against their companies. He also expressed concern with widespread industry use of coated fasteners.

Subsequent to these discussions, on January 20, 2012, Tim Grabowski (CCC046936), another local Roofing Contractor sent an email to Board staff, along with photographs (see attachment) indicating that he had also seen similar corrosion problems in fasteners used to secure the new metal ridge backing accessories being utilized with concrete and terra cotta roof tile systems. Although the evidence at this point is purely anecdotal, it now appears that there may be a corrosion concern with some electro-galvanized fastener types when they are utilized specifically with metal roofing accessories which authorize their use. It also appears that this corrosion may be significantly more serious in coastal environments due to the presence of chloride ions, although the problem does not appear to be limited solely to coastal environments. Accordingly, the Board believes there may be significant cause for concern,

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Revised: 08/07

The Building Code Advisory Board of Palm Beach County was created by a Special Act of the Florida Legislature, at the request of the building code enforcement and construction industries. The purpose of the Board is to advise the Board of County Commissioners and local governments concerning the adoption of building codes and their enforcement throughout the County. The Act also granted Palm Beach County special powers concerning building codes, in the interest of the public's health, safety and general welfare.

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particularly when fasteners are failing significantly before than the roofing product warranty period ends. The widespread prevalence of electro-galvanized fasteners, the increase in the manufacturing of these products outside the United States, and the wide variation in quality control of manufacturing processes throughout the industrial world may be a large part of the cause of this problem.

We respectfully ask the Commission to review this matter and take appropriate action based upon its findings. We believe the Commission has a better capacity to gauge this matter and judge the true scope of the problem we perceive to exist. Due to our recent industry experiences with "problem" materials from outside the United States, we believe this effort should be undertaken as quickly as possible to avoid the potential for significant failures to occur and avoid the possibility of significant property damage or health effects and the negative public perception that such failures might create.

Sincerely,

William Ray Higgins  
Chairman

Attachments:

BCAB 5-18-11 Minutes.pdf

BCAB 11-21-11 Minutes.pdf

Grabowski\_ridge\_fasteners.pdf

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Revised: 08/07

The Building Code Advisory Board of Palm Beach County was created by a Special Act of the Florida Legislature, at the request of the building code enforcement and construction industries. The purpose of the Board is to advise the Board of County Commissioners and local governments concerning the adoption of building codes and their enforcement throughout the County. The Act also granted Palm Beach County special powers concerning building codes, in the interest of the public's health, safety and general welfare.

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**MINUTES  
BUILDING CODE ADVISORY BOARD  
May 18, 2011**

- I. The Chairman, Jacek Tomasik, called the meeting to order at 2:00 p.m. in the Vista Center 1<sup>st</sup> Floor Conference Room 1W-47, Palm Beach County Planning, Zoning & Building Department, 2300 North Jog Road, West Palm Beach, Florida.

**A. MEMBERS PRESENT:**

*Jacek Tomasik, Chair  
William Higgins, Vice Chair  
Steven Kennedy  
Doug Wise  
Bette Lowe  
Michael Fichera  
Rebecca Caldwell  
Gary Kozan  
Joe Byrne  
Scott Worley  
Howarth Lewis – 2: 25  
Maury Jacobson  
Greg Miller – 2:20*

**MEMBERS ABSENT:**

*George Diaz*

**OTHERS PRESENT:**

<u>Ashley Salvati</u> , Recording Secretary	<u>Gentry Benjamin</u> , Asst. County Attorney
<u>Richard Gathright</u> , Deputy Building Official	<u>Michael Fox</u> , PBC, CPT Supervisor
<u>Joe Kajak</u> , Chief Plumbing Inspector	<u>Eric Smith</u> , Rainbow Roofing
<u>Les Knopf</u> , Knopf & Associates, Inc.	

- B. A motion was made to approve the minutes of the March 16, 2010 meeting. The motion was seconded and carried unanimously.

II. ADDITIONS & DELETIONS

III. COMMITTEE REPORTS

- A. Code Interpretation – NONE
- B. Code Amendments – NONE
- C. Product Evaluation – NONE
- D. Regulatory Climate Oversight Committee – NONE

IV. OLD BUSINESS

1. Technical Advisory for Anchored Air Conditioning Pads – Mike Fox

- Mr. Fox began by asking members to refer to the technical advisory draft that has been included in the packet for comments.
- Mr. Higgins asked if we wanted to get product approval.

- Mr. Fox responded no, that it did not fall under any of the categories. Their other option was to try to get ICCES evaluation report, but they were going another route.
- Mr. Tomasik clarified that we considered this as an engineered product, and that the approach of the manufacturer was that he would like to get an approval from the advisory board that it is approved to use in Palm Beach County.
- Ms. Caldwell said that unfortunately the product had been met with some resistance and the purpose of the Board's technical advisory was to state that it was indeed a good product but that it did not fall into one of the seven categories.

**Mr. Wise made a motion to approve the technical advisory and send it on to municipalities. Ms. Caldwell seconded. Discussion. The motion carried unanimously.**

## V. NEW BUSINESS

### 1. Recognition of Robert Lecky's Service on BCAB

- Mr. Lecky accepted a plaque recognizing his service on the Board.

### 2. Ridge Vent Failure Concerns when Using NOA Prescribed Fasteners – Eric Smith

- Mr. Smith explained that he has found that the combination of air, moisture and heat has caused rusting in electrogalvanized nails, causing vents to lift.
- Mr. Smith continued that he has looked back on over 60 homes that he had used these nails on, and corrosion had begun. However, NOA specifications only state that the nails must be corrosion resistant and long enough to go through the wood, which these nails comply with. He has started to use double hot-dipped nails instead.
- Mr. Higgins said that he has seen issues with electrogalvanized nails as well, and he would like to see a movement toward double hot-dipped or stainless steel.
- Mr. Smith explained that in the shingles, the electrogalvanized nails seem to be fine, or at least better, because air and moisture do not get in and cause corrosion like they do in the vents.
- Ms. Caldwell recalled that there was an amendment to the Standard Building Code, requiring stainless steel nails for certain roofing installations. However, in order to challenge product approvals, she said we will need more hard evidence, rather than anecdotes.
- Ms. Caldwell continued that we need some specificity for the ridge vent connectors that may be hot-dipped, galvanized or stainless steel, rather than a non-defined statement such as "corrosion-resistant".
- Mr. Worley stated that we don't have authority to overturn Miami-Dade's product approval, but we can interface. He suggested meeting with Miami-Dade to make them aware of our concerns. Also, he believes this is a product issue of the manufacturer. Owens Corning, being a large, international company should be concern with a significant failure rate in our geographical area. He would like to either write a letter to Owens Corning or invite an Owens Corning representative to come speak to the Board.
- Mr. Wise suggested having licensed contractors in the industry write a letter with photographic evidence to the Board, and have the Board make a cover letter to forward to Owens Corning and Miami-Dade.
- Mr. Byrne stated that the Roofing Association could poll its members to get a consensus, and they could submit photos attached with license numbers and testimonies.
- Ms. Caldwell reminded the Board that in order to have success, we need to have evidence specific to a product.
- Mr. Fichera reminded the board also to keep in mind how much time has passed since installation, because product approvals are based on unused products.
- Mr. Tomasik also reminded the board to keep in mind the location, with proximity to the water.

- Mr. Tomasik asked Mr. Byrne to collect information from the Roofing Association, and Mr. Fox to collect information from Mr. Smith, and the Board will further discuss the topic once the information is received.

### 3. Storm Water Drain Sizing Concerns when Repairing with Retrofit Drains – Les Knopf

- Mr. Knopf said that he has found in a reroof often the roofing contractor does not free up the bolts to replace parts of the drain, but simply drops a 3" tube into the drain, which by calculations is 7.06 square inches, OD 2 7/8 ID 2 5/8, which calculates out to 4.91 inches or about a 30% reduction in the size of usable drain. He is concerned about the restricted flow of water, and possibly being violation of Florida Plumbing Code 11.01.5, Storm Drainage, stating that "you may not reduce the size of the pipe of direction of flow". Ultimately, the concern is that the drains will to cause back-up on roofs that they are unable to handle.
- Mr. Tomasik stated that Building Code requires ASME approval, and none of these drains have it, so they are not appropriate for use.
- Mr. Knopf said, unfortunately, they are out there, because many roofers don't want to call plumbers to refurbish the drain or replace the basin. Because they don't have approval and they are actually being used, he wants to put forth a move to get the drains outlawed.
- Mr. Byrne explained that roofers must consider calculations for flow for back-up and overflow, which is required in Miami-Dade and Broward Counties, but is not required in Palm Beach County.
- Mr. Wise found in research that ANSI released a national standard based on rainfall rates. In his research also, he found that the drain is not reducing the pipe direction of flow, but reducing the pipe at the inlet, which is still a concern if you want to keep water off the roof. However, it is the wrong code section being cited. The code only tells you certain products you can't use, which does not include any of the retrofit drains. While he believes there is an issue for concern, he is unsure that they should be outlawed. He said that when they are properly sized, they are effective.
- Mr. Worley reiterated that, as Mr. Byrne stated, it is the roofer's responsibility to calculate the drainage analysis. He suggested putting notifications in building departments have roofer put higher scrutiny on drainage analysis because of the reduction of the intake in this product.
- Mr. Tomasik asked if we are not looking at ASME-112 (Section 1102.6), and only at how it performs.
- Mr. Wise responded that his research has lead him to refer to Chapter 6, Level 1 Alterations, and that the Plumbing Code does not apply.
- Ms. Caldwell said that it would still be considered new work, and for that reason, it must meet current codes or the code it was built under at the time. She also suggested that staff should further investigate ASME-112.
- Mr. Worley said this product has obviously been created because it is quick and easy; however, it is encountering problems because it is not being regulated by the building departments on a consistent basis. He thinks we need more information on if it is actually effectively working, and how does it get approved, if it is.
- Mr. Byrne stated that in Miami-Dade and Broward Counties drainage calculations are required. If you do not tell them which type of drain you are using, however, the calculations will likely be wrong.
- Mr. Wise said that it would be a good idea to write a technical advisory to the building officials to let them know that we will be studying it, and that they should be aware of it. However, he does not necessarily want to require an entire new plan review process.

- Mr. Tomasik suggested doing more research then coming back for further discussion to take a vote, to make a statement to ban it in Palm Beach County, send a message to Building Officials to inform them of its use or that it violates the code.

#### VI. FUTURE BOARD MATTERS FOR MAY

##### 1. Solar Assisted Air Conditioning System

- Mr. Fox said that there have been several interesting systems proposed and they seem somewhat dubious, but they haven't yet gotten engineering on them.
- Ms. Caldwell added that they have many concerns regarding the efficiency, benefits, costs, and warranties, and need more information to address these concerns.
- Mr. Fox stated that they are also trying to identify a process for permitting for the system.

#### VII. BOARD MEMBER COMMENTS

- Mr. Wise stated that the Regulatory Climate Workshop scheduled for May 25<sup>th</sup> was postponed for those who hadn't heard. The group will reconvene in the fall.
- Mr. Worley complimented Palm Beach County's timely permit processing.
- Mr. Byrne asked if we received a response to the letter on wind speed ratings on fiberglass shingles.
- Mr. Fox responded that Forest Masters called to get clarity on concerns and they are moving forward on testing, but we haven't heard anything further.

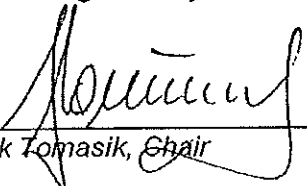
##### 1. Next meeting – September 21, 2011

#### VIII. STAFF COMMENTS

##### 1. Board Renominations

- Ms. Salvati informed board members of upcoming expected nominations.
- Mr. Tomasik mentioned that the new ethics training discussed changes to advisory boards.
- Mr. Worley mentioned that private individuals who served on advisory boards resigned once the Code of Ethics was released, in fear that they held contracts that were in conflict with the new Code. Since then, they have been lobbying to make changes in the language to avoid these conflicts. He has heard that the draft for some changes has been accepted.

The meeting was adjourned at 3:22 p.m.



\_\_\_\_\_  
*Jacek Tomasik, Chair*

Respectfully submitted,  
Ashley Salvati, Recording Secretary

**MINUTES  
BUILDING CODE ADVISORY BOARD  
September 21, 2011**

- I. The Chairman, Jacek Tomasik, called the meeting to order at 2:08 p.m. in the Vista Center 1<sup>st</sup> Floor Conference Room 1W-47, Palm Beach County Planning, Zoning & Building Department, 2300 North Jog Road, West Palm Beach, Florida.

A. **MEMBERS PRESENT:**

*Jacek Tomasik, Chair  
William Higgins, Vice Chair  
Steven Kennedy  
Doug Wise  
Bette Lowe  
Rebecca Caldwell  
Greg Miller  
Joe Byrne  
Scott Worley  
Howarth Lewis*

**MEMBERS ABSENT:**

*Michael Fichera  
Gary Kozan  
Maury Jacobson*

**OTHERS PRESENT:**

Ashley Salvati, Recording Secretary  
Bob Boyer, PBC, CPT Coordinator  
Vergie Bain, OSHA

Gentry Benjamin, Asst. County Attorney  
Michael Fox, PBC, CPT Supervisor  
Tim Graboski, Graboski Roofing, Inc.

- B. A motion was made to approve the minutes of the July 20, 2011 meeting. The motion was seconded and carried unanimously.

II. **ADDITIONS & DELETIONS**

- Mr. Worley mentioned that he had to leave at 4:00pm, and if we needed to take votes on any items, to please make them early.
- Ms. Caldwell requested moving "Roof Coatings" to the second item.

III. **COMMITTEE REPORTS**

A. Code Interpretation – NONE

B. Code Amendments – NONE

C. Product Evaluation – NONE

D. Regulatory Climate Oversight Committee – SEE BELOW

IV. **OLD BUSINESS**

1. Regulatory Climate Survey – Universal Permit Application – Doug Wise & Chris Roog

- Mr. Wise would like to ask for board approval to send out to city managers and building departments to let them know it is BCAB endorsed, accepting that it may need future fine-tuning and accepting suggestions.

**Mr. Worley motioned to accept and Issue the application as a technical advisory. Discussion.**



- Ms. Caldwell realized that on the application's instructions, #7 must be changed to #6 (sub-permits must fill out #1, 3, 6 & 8).
- Mr. Worley asked where he could find the fee schedule referred to in #5.
- Mr. Wise said that each department must supply fee schedule.
- Mr. Worley suggested adding instructions.
- Mr. Tomasi suggested putting it online fillable with instructions specific to each field. He then continued, if we vote on this today what is the course of action?
- Mr. Wise suggested generating a letter stating that it is endorsed for use in 38 municipalities and county.
- Ms. Caldwell said getting BCAB endorsement is the first step. We need to hear back from municipalities that it would be accepted by their Building Division offices. Mr. Wise has pursued League of Cities & BOAF to endorse. She suggested putting this form on BCAB website stating, "A listing of participating municipalities to follow," then continuing to work and concentrate on the promotion of it, rather than details.
- Mr. Worley agreed that BCAB needs to endorse it and get municipalities to approve it so that we can actually have each building department successfully implement its use. The next step is to then go to the Regulatory Climate Committee, as well as getting press releases to show the success of Committee's success on how business and government are working more closely.
- Mr. Wise stated that Economic Council of Palm Beaches has been instrumental in creation of Regulatory Climate Committee and are excited for its release because they want to show off its accomplishment. People all over the state are looking at this – it was discussed statewide at Six Pillars, the cross-functional state-level attempt to streamline government.

**Ms. Caldwell motioned to amend the application, changing #7 to #6 in the sub-permit instruction section. Mr. Wise seconded Ms. Caldwell's motion. Mr. Worley accepted the change to his motion. Discussion. The motion passed unanimously.**

## **2. Roof Coatings - Possible Amendment to the Motion – Rebecca Caldwell**

- Ms. Caldwell noted that the motion was actually made in reference to elastomeric roof coatings; however, she wanted to ensure that the term "elastomeric" did not limit the intent.
- Mr. Wise restated his motion as, "roofing systems used for repair or waterproofing are regulated systems and should be reviewed as such" and explained that he had intended all types of synthetic roof coatings, not only limiting it to elastomeric. Mr. Wise stated that the technical advisory as written adequately addresses his motion.

**Mr. Byrne made a motion to accept the technical advisory as written. The motion was second and carried unanimously.**

## **3. Solar Assisted Air Conditioning System – Staff**

- Mr. Boyer stated that he sent an e-mail to Ann Stanton at the Department of Community Affairs for input, stating that it had been sent to AHRI, Goodman and Nordyne. She forwarded it to Florida Solar Energy Center (FSEC). He read FSEC's response, condemning the system.
- Mr. Graboski argued against FSEC's statement, alleging that they deal with pb photovoltaic and thermal systems and they do not have the capabilities to test refrigeration.
- Ms. Caldwell responded explaining the heat recovery unit, and that the representatives from the Florida Solar Institute
- Mr. Wise asked if staff is still researching this.
- Mr. Boyer said that he is waiting on the response from AHRI and he has resent e-mails to Goodman. We have had a difficult time getting responses to phone calls.
- Mr. Fox stated that he called the manufacturer of the solar collector specified in the plan, Solar Gear Solar Pack T24. He said they told him the solar collector is designed for water use, therefore the maximum pressure of 116 PSI would likely be exceeded in Freon use which should also be of concern.
- Ms. Caldwell stated that we should have further information by next meeting because this company is currently in litigation for fraud for presentation of this theory.

**4. Storm Water Retrofit Drain Sizing Follow-Up**

- The Chairman signed the Technical Advisory.

**5. Ridge Vent Failure - Industry Follow-Up – Joe Byrne**

- Mr. Byrne said that he has not gotten any written information from the state or local members, just some phone calls and conversations. He further reflected on his own recent experience of a job that was done about 10 or 12 years ago, and has just come to light this week through inspections for wind mitigation. He said he is in the process of finding who the fastener manufacturer was at the time, and will hopefully be able to bring it back at the next meeting. He did state that he had some anecdotes from members but they were unwilling to supply information to him, perhaps due to fear that they would need to tear a roof off.
- Mr. Byrne has found that the problem has been the coated nails.
- Mr. Worley asked what the difference in cost of the fasteners is, and the percent of the total.
- Mr. Byrne responded at least double, and that the cost of the roof increases 5% when using the preferred fasteners.

**Mr. Wise made a motion to write a technical advisory to caution industry and write a letter to the ICC and the Florida Building Commission. Discussion.**

- Mr. Fox reminded us that the intention was when Rainbow Roofing brought it to our attention, was to gather data and then bring it to the attention of Miami-Dade Product Control Division, and to the DCA and Florida Building Commission, to ideally have them act on it.
- Mr. Tomasik asked board members to gather more information to further discuss at the next meeting.

**V. NEW BUSINESS**

**1. OSHA Requirements for Fall Protection – Vergie Bain**

- Ms. Vergie Bain introduced herself, and began her PowerPoint presentation on the new OSHA requirements for fall protection to ens
- Ms. Bain explained that we had interim guideline June 1999. December 2010 we rescinded the guideline and we are now changes directives to reflect the new guidelines. As of June 16, employers were required to utilize new fall protection. We extended the changeover period until September, but we are now issuing citations against those who do not follow the new guidelines.
- Ms. Bain highlighted the original fall protection standard, 1926.501(b)(13), which covers residential construction for those doing work 6' or more above the lower level must be protected by what we call conventional fall protection, either: a guardrail system, safety net system, or personal fall arrest system. Additionally, alternative methods are allowed under certain circumstances (barricades, warning lines, monitor, etc.) If the employer can show that it is not feasible to use it, it can be taken into consideration. Ms. Bain went on to show specifics of the different types of protections.
- Ms. Bain specified that requirements include that all employees are trained on how to minimize injuries.
- Mr. Worley said that while his roofers have adopted the proper standards, his shell contractors seem to be on the monitoring method.
- Ms. Bain said that there are suggestions for the most effective protection while working on each part of the house.
- Mr. Worley asked how it is to be done on a one story home.
- Ms. Bain responded through scaffolds or mobile ladders.
- Mr. Worley said he understands how it can be done for a roofer, but that it is more difficult for a truss contractor because he needs to tie off, yet still be mobile. He said many shell contractor may not know how to fulfill these new standards.

- Ms. Bain said that OSHA is willing to educate, and has consultation partners through the University of South Florida that come to the site free of charge to show them.
- Mr. Wise stated that he did not believe that any of the methods that were shown today are appropriate for shell contractors because of the height, and that OSHA needs to educate shell contractors specifically how to do this.

**2. Chapter 1 Amendments to the FBC - Need Sub-Committee – Jacek Tomasik**

- Mr. Boyer stated that Chapter 1 will likely not be out until the beginning of November. He does have bits and pieces of Chapter 1 as it stands.
- Ms. Caldwell would like to create a sub-committee in order look at current model code and begin to compare what we have on the new Chapter 1. The sub-committee member include: Joseph Byrne, Doug Wise, Steven Kennedy, and chairperson Rebecca Caldwell.

**VI. FUTURE BOARD MATTERS FOR SEPTEMBER**

**1. Global Disaster Housing – Temporary Containerized Housing**

- Mr. Boyer said he spoke with Dan at Global Disaster, who is willing to come in; however, he would like to wait until after the new Florida Building Code goes into effect and he can rewrite his presentation to reflect the changes.

**2. NFIP Changes**

- Ms. Caldwell recently finished the annual recertification through the community rating system and they are proposing some fairly significant changes. She wants to put it before the board in order to make everyone aware of the changes. Both state and federal government are giving more responsibilities to the local government.

**VII. BOARD MEMBER COMMENTS**

**1. Next meeting – November 16, 2011**

- Mr. Tomasik reminded board members to arrive so that we can begin promptly at 2:00pm.

**VIII. STAFF COMMENTS**

**1. Update on University Testing of Self-Adhered Shingles**

- Mr. Graboski asked if was possible to get an update on the testing being done on the self-adhered shingles at the University at the next meeting.
- Mr. Byrne said that he would likely have information to present by next meeting.

**2. Anchor Point and Inspections**

- Mr. Graboski expressed concern that the anchor points discussed in the OSHA presentation could present the possibility of the failure of building inspections.

The meeting was adjourned at 3:55 p.m.

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*Jacek Tomasik, Chair*

Respectfully submitted,  
Ashley Salvati, Recording Secretary

From: Tim Graboski [mailto:Tim@graboskiroofing.com]

Sent: Friday, January 20, 2012 8:02 AM

To: Michael Fox; Rebecca Caldwell

Subject: BCAB - meeting top "Ridge Vents"

Good Day, In the discussion on the SHINGLE METAL RIDGE VENTS and the issue with the fasteners corroding and creating issues, the METAL ridge beams on roof tile systems are experiencing the same issues. You may want to review and discuss this issue while you are RESOLVING the RIDGE VENT – very similar in nature. I have attached some FIELD PHOTOGRAPHS of my company's findings.

Regards,

Timothy Graboski

President

O 561.276.8252 | F 561.276.6650

[www.GraboskiRoofing.com](http://www.GraboskiRoofing.com)





1:22:27 PM 3/15/2013

**Licensee Details**

**Licensee Information**

Name: **SMITH, RONALD ERIC (Primary Name)**  
**RAINBOW ROOFING INC (DBA Name)**

Main Address: **13966 159TH STREET NORTH**  
**JUPITER Florida 33478**

County: **PALM BEACH**

License Mailing: *jsmith1928@aol.com*

License Location:

**License Information**

License Type: **Certified Roofing Contractor**

Rank: **Cert Roofing**

License Number: **CCC044900**

Status: **Current, Active**

Licensure Date: **07/30/1988**

Expires: **08/31/2014**

**Special Qualifications**      **Qualification Effective**

**Construction Business**      **02/20/2004**

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## Rainbow Roofing Inc

[Write a Review](#) ☆☆☆☆ Not Rated

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(561) 575-1898

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### Business Details

**Categories (Edit)**

Home Improvement & Maintenance,  
Roofing Contractors

**Products & Services (Edit)**

- Building
- Remodeling
- Repairs
- Reroofing

**Additional Information**

26 Years in Palm Beach County, Family  
Owned & Operated

**In Business Since**

1992

**Certification & Affiliations**

- Family Owned & Operated



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