



# SHEAR BULL



**Palm Beach County Roofing & Sheet Metal Contractors Association**

Affiliate of FRSA and NRCA

**October 2010** Volume 23 - 10

## October Program

Wednesday  
October 27th, 2010

### 2010 Annual Golf Tournament

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**Location:**

Winston Trails  
6101 Winston Trails Blvd  
Lake Worth, FL

Noon - Sign In

**1pm** - Shot Gun Start

**5-7pm** - Dinner & Awards

...

For more info:

Ron Frano 655-5393  
rfrano@pbcroofers.com

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## When Is it Time to Replace the Roof?

by John A. D'Annunzio



Roofing contractors are continually asked to provide technical decisions by building owners. The most frequently asked question — particularly in these tough economic times — is whether the roof needs to be replaced or if repairs can be made to extend the service life. To properly answer this question a roof evaluation inspection should be performed to determine the existing condition of the roof system. The inspection should be conducted by someone who is knowledgeable in material forensics and has the proper equipment to perform the inspection. The roof replacement/roof repair decision is largely determined by the condition of the existing roof components and materials. The inspection should focus on the condition of the insulation and/or deck, the membrane and the flashings. Standard test

methods for insulation moisture analysis and membrane condition should be utilized to properly assess the roof's condition.

### Insulation Tests

The inspection of the insulation requires specialized equipment and testing to determine the presence of moisture. Moisture analysis can be conducted with non-destructive testing equipment such as capacitance meters, infrared cameras or nuclear gauges. Regardless of the type of test equipment utilized, the most important part of the moisture analysis is verification and confirmation of the tests through extraction of test cores in the wet areas. Each layer of insulation is considered a separate component and is tested on its own. Insulation testing concentrates on the moisture content of the applied insulation. Wet insulation is...

(continued on page 3)

## 2010 Officers & Board of Directors

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561-478-1111

## Message From the President

October welcomes cooler weather after a record setting summer temperature in Florida as well as the entire nation. Many efforts will be made this month during the final weeks of the election period. PLEASE TAKE TIME TO VOTE on November 2nd. It is important that we get the proper elected officials in place to protect our businesses and interests.

One key item of concern is Amendment #4. It is very important that we emphasize to all of our family, friends, colleagues and employees to **VOTE NO on 4.**

Our future in the construction industry is at risk with this amendment.

For more information on this matter, please visit [www.florida2010.org](http://www.florida2010.org)

The Fall Golf Tournament is the feature for October. The event will be held on Wednesday, October 27th at Winston Trails in Lake Worth. Come out and enjoy a fun filled time on the links.

Our next General Membership meeting will be on November 17, 2010 and will include the VOTING for our 2011 Officers and Directors.



*“Please make a point to get involved in your association. Your participation adds PROFESSIONALISM to our industry.”*

Your President,  
*Tim Graboski*

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a deterrent to all roof types, because it decreases the insulation's structural and thermal capacities. Insulation is utilized as a substrate for some systems and for its thermal heating capacity.

When these attributes are diminished, the roof system is compromised. There are two tests that are performed to identify moisture in insulation; they are gravimetric moisture content and volumetric moisture content. Gravimetric moisture content of insulation is the percentage of its dry weight, which is the water that it contains when it is received as a sample. Gravimetric content is measured by weighing the sample as it is received and then after it has been dried. Insulation drying is completed in a convection oven in accordance with ASTM C-90.

If a sample weighed 90 grams when received and 50 grams when dry, it would have contained 40 grams of water for 80 percent gravimetric moisture content. Some types of insulation can absorb several hundred percent of their own weight of water.

Volumetric moisture content of insulation is the percentage of its physical volume, which is the water that it contains when it is received as a sample. Volumetric moisture content, which can be more useful in considering effects on insulating value, is found by dividing the volume of the sample, in cubic centimeters, by the weight in grams of the water it loses in drying. One gram of water is one cubic centimeter of volume at room temperature. Therefore, a sample that is 2 inches by 2 inches by 1 inch has a volume of the sample, in cubic centimeters, by the weight in grams of weight in grams of the water it loses in drying. One gram of water is one cubic centimeter of volume at room temperature. Therefore, a sample that is 2 inches by 2 inches by 1 inch has a volume of 65 cubic centimeters. If a sample lost 19 grams, or 19 cubic

centimeters, of water when it is dried, its volume percentage of water was 19/65, or 29 percent. If volumetric content of fiberboard insulation is 29 percent, then the gravimetric moisture content might be 190 percent. However, if the same 29 percent volume occurred in a light foam insulation, its gravimetric moisture content might be 950 percent — five times as much. It is important when weighing samples for moisture content to make sure to weigh any moisture that may have condensed out inside the plastic bag that contains the sample.



Wet insulation must be removed from the roof system. Industry standard requires total roof replacement if more than 25 percent of the roof area has wet or saturated insulation. Typically, the condition of the

membrane and flashings can be determined through an extensive walkover inspection that identifies openings, splits, deformations and material deterioration. There are instances when irreparable membrane surfaces can be identified through visual inspection. Surface defects such as extensive blistering, ridging and openings are signs of defects that are beyond economically particle repairs. There are instances where visual observation may not be enough to determine the true membrane condition. In these cases more extensive testing is required.

The service life of a roof system depends on the condition of the roof membrane. Surface defects can be identified by the visual observations conducted in the inspection phase; however, the true condition of the membrane can only be identified by physical tests conducted in a laboratory. Each type of roof membrane has its own failure modes. Therefore, the laboratory testing differs for each type of roof membrane system. Test procedures and analysis for the major roof membranes should be completed in accordance with ASTM standards. The roof evaluation should also identify if there is improper anchorage of the roof system components to the structural deck. If this condition exists and there is no practical way to properly anchor the roof component to the deck through repair methods then replacement is required. An interior inspection of the underside of the deck should be conducted if feasible to assess the condition of the deck. All identified deteriorated decking should be marked on the roof area and flagged off as a potential fall-through hazard.

If the inspection concludes that roof re-cover is acceptable, all wet insulation should be removed. Re-cover application should be completed in accordance with the manufacturer's requirements using authorized materials.

## November Program

### Renewable Energy Products November 17, 2010

Guest Speaker, **Danny Stokes**  
CSI, CDT, RCI, CPRC  
Vice President - **Advanced Roofing**

Networking/Social Hour: 6:00-7:00  
Dinner/Program: 7:00-9:00

**Location:** Crowne Plaza  
1601 Belvedere Rd - West Palm Beach, FL 33406  
(Corner of Belvedere & Australian) Directions: I 95  
Exit 69 Belvedere Rd. Turn left onto Belvedere Rd.  
Hotel is ½ mile on right corner

For more info: Ron Frano **655-5393**  
or email [rfrano@pbcroofers.com](mailto:rfrano@pbcroofers.com)

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## Industry Websites

- **ASTM** - [www.guidance-inc.com/~roofroof/](http://www.guidance-inc.com/~roofroof/)
- **American Consulting Engineers Council** - [acec.org](http://acec.org)
- **American Institute of Architects** - [aia.org](http://aia.org)
- **American Society of Civil Engineers** - [asce.org](http://asce.org)
- **Building Officials Association of Palm Beach County** - [www.boapbc.org](http://www.boapbc.org) & [www.boapbc.org/links](http://www.boapbc.org/links)
- **Cedar Shake & Shingle Bureau** - [www.CEDARBUREAU.org](http://www.CEDARBUREAU.org)
- **Construction Industry Management Council (CIMC)** - [www.cimcpbc.com](http://www.cimcpbc.com)
- **Construction Specifications Institute** - <http://www.csinet.org>
- **Copper Development Association** - <http://www.copper.org>
- **Division of Workers’ Compensation** - <http://www.wc.les.state.fl.us./DWC/>
- **Florida Roofing, Sheet Metal & Air Conditioning Contractors Association** - [www.Floridarroof.com](http://www.Floridarroof.com)
- **Galvalume Sheet Producers** - [www.steelroofing.com](http://www.steelroofing.com)
- **National Roofing Contractors Association (NRCA)** - <http://www.nrca.net>
- **National Society of Professional Engineers** - [nspe.org](http://nspe.org)
- **Roofing Contractors Association of South Florida (RCASF)** - [www.rcasf.org](http://www.rcasf.org)
- **Roofing Industry Education Institute** - <http://members.aol.com/RIEIROOF/classes.htm>
- **Roof Tile Institute** - [www.rooftile.org](http://www.rooftile.org)
- **Sheet Membrane and Component Suppliers to the Commercial Roofing Industry (SPRI)** - [www.SPRI.org](http://www.SPRI.org)
- **Sheet Metal and Air Conditioning Contractors’ National Association (SMACNA)** - <http://www.smacna.org>
- **The Council of American Building Officials (CABO)** - <http://www.cabo.org>





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Palm Beach County Roofing & Sheet Metal Contractors Association, Inc.

# Annual Fall Golf Tournament

Wednesday, October 27<sup>th</sup> 2010

Winston Trails • Lake Worth

6101 WINSTON TRAILS BLVD. • LAKE WORTH, FLORIDA

Call for Details:

John Pellegrino: (561) 719-7341

Ron Frano: (561) 655-5393 | Fax (561) 688-8807

### When:

Wednesday, October 27, 2010  
12:00 Noon - Sign In  
1:00 p.m. - Shot Gun Start  
5:00 to 7:00 p.m. - Dinner & Awards in Clubhouse  
General Membership Meeting to follow golfing

**Fee:** \$100.00 per player

### Format:

Four Member Team Scramble

### Registration:

All players must register in advance by completing an application. Bring your friends & business associates. **Non-members are encouraged to participate. Make checks payable to the PBCR&SMCA.**

### Entry Fee Includes:

Green Fees, Cart, Gifts, Awards and Dinner.

*All entries will be handled on a first come first serve basis. Send in registration form and fee as soon as possible to secure your place.*

### Dress Code:

Shirts with collars are required to be worn while you are on the golf course. If you desire to wear shorts they must be walking shorts. *Note: Proper golf etiquette is mandatory.*

### Please make checks payable to:

PBCR&SMCA  
2101 Vista Parkway, Suite 4001  
West Palm Beach, FL 33411

Attn: Ron Frano

For more information, call Ron Frano @ 561-655-5393

### Tournament Sponsorship:

\$100.00 per Hole. Send a business card or check with application.

### Golf Committee:

John Pellegrino (561) 719-7341

Ron Frano (561) 655-5393

Fax 561-688-8807

## GOLF TOURNAMENT APPLICATION



1) \_\_\_\_\_  
Name Handicap

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Name Handicap

3) \_\_\_\_\_  
Name Handicap

4) \_\_\_\_\_  
Name Handicap

## TOURNAMENT SPONSORSHIP

Send Business Card: Name wanted on sign \_\_\_\_\_

Please enclose check for \$100.00 to PBCR&SMCA

# November 2010

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
			CIMC 7:45 AM			
7	8	9	10	11	12	13
	BCAB 2:00PM		PBCR&SMCA Board Meeting 12:30pm			
14	15	16	17	18	19	20
			<b>Renewable Energy Products</b> SPEAKER: <b>Danny Stokes</b>			
21	22	23	24	25	26	27
	CILB 2:00PM		General Member Meeting - 6:30p			
28	29	30				

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## FRSA Future Meeting Dates

- **January 27-29, 2011**  
Board of Directors / Committee Meetings  
Lido Beach Resort, Sarasota, FL
- **April 28-30, 2011**  
Board of Directors / Committee Meetings  
Crowne Plaza Melbourne Oceanfront, Melbourne, FL
- **June 22-25, 2011**  
FRSA's 89th Annual Convention & Florida Roofing & Sheet Metal Expo  
The Peobody Hotel & the Orange County Convention Center, Orlando, FL

## PBCR & SMCA Office and Phones

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**Ronald A. Frano, MBA**  
Executive Director