



Winter 2008

Issue Five

ROYAL REVIEW

Royal Roofing Working Down-South this Winter!

One might conclude from the title of this article that Royal isn't currently doing work in the State of Michigan, or that we're setting our sites on the warmer-southern markets now that we're in the heart of winter. Rather, the headline is meant to portray a testament of our company's willingness and versatility to perform roofing projects wherever and whenever the opportunity arises. Furthermore, our ability to reallocate resources to accommodate projects such as this, even if it means assuming the costs of travel!

Truth be told, the "Down-South" aspect of this article is somewhat of a stretch, but the project is in fact located south of Michigan, our headquarter state, down that long north / south highway known as interstate 75 or I-75. The southern metropolis that's being referred to is Toledo Ohio and the project is the Toledo Museum of Art.



Photo Above: An elongated view of the Toledo Museum of Art—"Main building"; pre re-roof state.

As explained in their website, the Toledo Museum of Art's Greek Ionic façade has graced the city as both landmark and legacy since 1912. The original structure, referred to as the "Main Building", was constructed using white marble, articulated by a row of 16 columns, a copper roof, and a frieze of acanthus leaves. Over what has been almost a century, the "Main Building" has been renovated and expanded four times and now houses 40 galleries, a 1,750-seat theater, a medieval cloister, classrooms, a Museum Store, and a Café. In all, the "Main Building" now sits amongst seven total buildings that offer a mix of Neoclassical, Art Deco, and Postmodern architecture on a 32 acre campus.



Photo Above: Toledo Museum of Art, front entrance. Photos below: Pre-replacement view of the copper wall-panels and edge trim, and roof overview of the museums "Main Building".

The next phase of renovations began recently, specifically on that aforementioned original structure, and Royal Roofing Company is thrilled to be involved. Naturally, Royal's focus will be on the roof, of which 32,000 Square Feet will be addressed. This area will be completely torn off, down to the "Gypsum Deck", and replaced with a four-ply "Manville" built-up roof system. The 32,000 Square Feet of flat-roof replacement is only the first aspect of this job, the Royal Sheet Metal Division will follow to complete the more detailed aspects of this renovation. Much of what made this building special for almost a century, our sheet metal department will be updating. Thereby replacing over 2,100 Square Feet of existing copper wall panels with new 16-ounce copper panels; in addition to over 1,400 Lineal Feet of new copper edge trim.



Again, Royal Roofing Company is ecstatic to have been chosen as the roofing contractor for this project. We feel because of our history in roofing, we'll make a perfect compliment to this already historic facility and its renovation. Furthermore, Royal welcomed the opportunity to continue expansion into this "Southern Market"!



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ROYAL Review - Entertainment Section

Royal in the Kitchen



“Royal in the Kitchen” is a segment of the *ROYAL Review* where we focus on different recipes that are relevant to an event or the season of that edition. To stay with tradition we’ll duplicate what was represented in our inaugural issue, which fell within the same timeframe, and focus on that all important holiday known as Super Bowl Sunday!

As opposed to last years recipe, which was a delightful Nacho Bread Pizza dish, this year we’ll focus on the food leading up to the game; appetizers!

Featured Recipes: Festive Sausage Balls & Bacon Cheese Puffs

1. Festive Sausage Balls

Sausage balls with dips, made with pork sausage, cheese, biscuit mix, and chopped green onions.

PREPARATION:

Combine all ingredients and mix well. This can be done by hand, with a heavy duty mixer, or in a large food processor. Shape into small balls and place on a baking sheet (with sides). Bake at 350° for 12 to 15 minutes, until browned on bottoms. Serve with your choice of dips.

2. Bacon Cheese Puffs

Bacon puffs are made with bread and bacon and cheese.

Cut crusts from bread then cut each slice in half. For each puff, place 2 bread halves, end to end, on a strip of bacon. Sprinkle with 3 tablespoons shredded cheese. Roll up and fasten with picks. Stand rolls on edge on a rack in a shallow baking pan. Bake at 400° 20 minutes, or until lightly browned. Serve hot. Makes 12 appetizer puffs.

Source: <http://southernfood.about.com/cs/holidayrecipes/a/superbowl.htm>

Ingredients

- 1 pound bulk breakfast sausage
- 8 ounces finely shredded Cheddar cheese
- 3 cups biscuit baking mix
- 1/2 cup finely minced green onion
- 1/4 cup finely minced red bell pepper

Ingredients

- 12 slices Bacon, about 8 ounces
- 8 slices thin-sliced bread
- 2 cups shredded Cheddar cheese

Royal – Word Search



Freshen-up on your roofing industry lingo while completing our puzzle.
*Solution is posted on the lower corner of the following page.

1. **Alligatoring:** The cracking of the surfacing bitumen on a built-up roof, producing a pattern of cracks that resemble an alligator’s hide.
2. **Asphalt:** A substance left as a residue after evaporating or otherwise processing crude oil or petroleum.
3. **Ballast:** A material installed over the top of a roof membrane to help hold it in place. Ballasts are loose laid and can consist of aggregate, or concrete pavers.
4. **Batten:** (1) A strip of wood usually fastened to the structural deck for use in attaching a primary roof system such as tile; (2) A plastic strip, wood strip, or metal bar which is used to fasten or hold the roof and/or base flashing in place, A.K.A. Termination Bar.
5. **Bitumen:** Mixtures of hydrocarbons and other substances, occurring naturally or obtained by distillation from coal or petroleum, that are a component of asphalt and tar and are used for surfacing roads and for waterproofing.
6. **BUR:** An acronym for Built-Up Roof.
7. **Cap Sheet:** A granule-surfaced membrane often used as the top ply of BUR or modified roof systems.
8. **Cladding:** A material used to cover the exterior wall of a building.
9. **Coal Tar Bitumen:** A proprietary trade name for Type III coal tar used in dead-level or low-slope built-up roofs. It is not for use in roofs exceeding 1/2” in 12” (4%) slope.
10. **Coal Tar Pitch:** A type of coal tar used in dead-level or low-slope built-up roofs. It is not for use in roofs exceeding 1/2” in 12” (4%) slope.
11. **Deck:** The structural component of the roof of a building which provides the substrate to which the roofing system is applied.
12. **Dry Rot:** Wood rot caused by certain fungi. Dry rot can result from condensation build-up, roof leaks that go unattended, or from other problems.
13. **EPDM:** Ethylene Propylene Diene Monomer. “Rubber Roof”
14. **Fishmouth:** An opening along the exposed edge of an installed ply of felt caused by shifting the ply during installation.
15. **Pitch:** Term used to describe Roof Slope and also short for Coal Tar Pitch.
16. **Roof Curb:** A frame used to structurally mount rooftop equipment such as HVAC units, exhaust fans, skylight, etc.; may be pre-constructed or constructed on site.
17. **Snow Load:** A roof load resulting from snowfall. Snow load is a major structural consideration when roofs are designed in areas that receive heavy snow.
18. **Square:** (1) 100 square feet of roof area (9.29 m2) in the USA. (2) 10 square meters (107.639 ft.2) of roof area using the metric system of weights and measures.
19. **Standing Seam:** A type of metal roof system where the longitudinal seams on adjacent panels are turned up, overlapped and folded in various ways in order to prevent moisture entry and interlock the panels.
20. **Underlayment:** A material installed over the roof deck prior to the application of the primary roof covering.

Royal Employees Contributing in Different Ways for One Cause

It's amazing just how many Breast Cancer charities there are today! For instance, when you use the internet search-engine "Google" and search the phrase "Breast Cancer Charities", it comes back with 1,740,000 results! Sure, some of those organizations are more recognized or have had better year end results. But the fact of the matter is they all share the same mission; raise money to help fight breast cancer. Through these organizations, funds may be distributed in different ways like for research, comforting patients, or simply to raise awareness; but ultimately it's to end this horrible disease!



Recently, two of these many charities were represented by Royal employees. Janette Burkey- Payroll Manager, see top right photo (Janette Center), walked to raise money; walked 60 miles! With the help of her friends, family, and donations made within Royal, she raised over \$2,200. to enter the three day event. Money collected benefited the Susan G. Komen Breast Cancer Fund. Karen Carrier-Controller, see photo bottom left, rode her motorcycle to raise money. She and a couple hundred other motorcycle enthusiasts took part in a ride that covered over 80 miles. This is an event that is going on its fifth year, and thus far, has raised over \$40,000. for



Beaumont Hospital's "Sharing & Caring", a breast cancer education and support program. Money is raised by the participants and corporate sponsors; Royal Roofing is going on its 3rd year as a corporate sponsor. Walk, Run, or Ride, these are two great examples of how people are raising money to help fight Breast Cancer. For more information on these charities see our "Story Links" section.

Story Links

This section is dedicated to those readers who would be interested in getting more information about some of the companies and charities that were discussed in our newsletter. Please see the links below:

1. Toledo Museum of Art

 **TOLEDO MUSEUM OF ART**
www.toledomuseum.org

2. Breast Cancer 3-day Walk



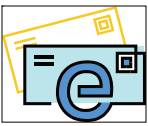
www.the3day.org

3. Bikers Beating Breast Cancer

www.BikersBeatingBreastCancer.com



"Ask the Roofer"



This is a quarterly segment that allows our readers to submit questions they may have about commercial

roofing. If you have a question send us an email; dstiff@royal-roofing.com. We'll not only answer you but we'll publish the question and response in the following edition of the *ROYAL Review*.

Q. If I have excessive snow-load on my roof does this need to be removed?

R. If your roof is structurally sound and you're not currently experiencing any leaks, the snow shouldn't be an issue. Although if unusual sounds or noticeable sagging is observed, a professional "commercial" roofing contractor needs to be contacted! Because of the experience commercial roofing contractors have with most flat roof systems, they have a better understanding as to how snow should be removed; minimizing the chance of potential damage.

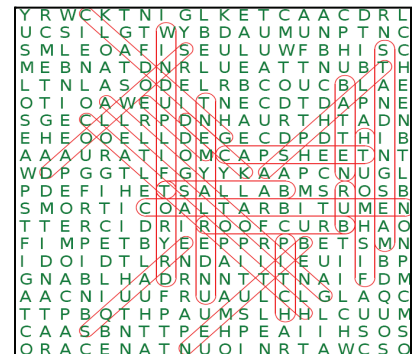
There's no-doubt that excess snow has the potential to cause serious problems to a building's roof system. Some of those problems are obvious, such as when noticeable roof-sagging occurs, but its those less obvious damages that can lead to major leaks if not addressed immediately.

Therefore, it's important for every building owner or property manager to employ a Spring and Summer Preventative Maintenance program on their roof. Because of variables such as seasonality, roof traffic, and unknown debris, to name just a few, its crucial to have an ongoing inspection performed to identify and repair those deficiencies before leaks result. But, after a winter that produced large amounts of snow, it's even more important that an inspection / preventative maintenance actions are employed to confirm that the weight or removal of the snow didn't cause harm.

Q. It seems that today the price of oil effects the costs associated with everything I do, or

want to have done. What effects, if any, does the cost of oil have on the roofing industry?

R. Because most roofing products are oil based, prices on those materials are experiencing steady increases. Furthermore, freight charges and contractor fuel costs also play a role in the noticeable price increases; which are ultimately being passed on to consumers.



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With Royal Roofing, you're getting more than just a roof. You're getting a roofing company along with it.



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Royal Roofing Flying to Restore an Old Roof

You don't have to spend a minute studying American History to know that the "Ford" name is synonymous with the automobile. There's no argument that Ford significantly impacted the way we travel through the use of that invention. What might not be common knowledge is the influence that the Ford Family had on the history of aviation and the role they played in molding the travel industry as we now know it.

It was his interest in aviation that drove Henry Ford's son Edsel to invest in the concept of building airplanes for commercial travel. As this investment progressed, Henry Ford quickly recognized that air transportation was going to be as vital to commercial travel as the automobile. Being the pioneer and entrepreneur that he was, Ford responded to this new opportunity by constructing a 20,000 Sq. Ft. commercial metal-airplane factory in 1924, and in 1925 creating one of the first modern airports in the world, all contained within his Dearborn campus. Sitting on 360 acres of land, that was originally designated for a subdivision to house workers of the nearby automobile factory, the new airport contained two grass runways and flood lights for night landings. Growth continued into the late 20's and 30's with additional airplane factories, massive hangers, and a terminal with the first of its kind hotel / restaurant to service travelers, a revolutionary concept that holds true today.

Ford Airport in Dearborn Michigan continued to operate and contribute to the history of aviation and the air travel industry until 1947 when it moved its transport office to Detroit Metro Airport, which marked the end of Ford Airport operations. Renamed in 2006, Ford Airport is now The Dearborn Development Center and is part of the Ford Motor Company - Dearborn Proving Grounds. Many of the original airport facilities are still in use today but used in different capacities, except for the old terminal (The Dearborn Inn) which still functions as a restaurant and hotel. One in particular is the airplane hanger that was constructed in 1926, which was the biggest in the world at that time, but is now referred to as Ford EEB (Experimental Engine Building). Because of its historic nature, this is one of those facilities that is irreplaceable, but to keep it online occasional restoration is required. Recently, the area identified to be of greatest concern on this facility was the roof. As solid as these old buildings are, nothing can last forever; that's where Royal Roofing comes into the story.

Recently, Royal Roofing Company had the opportunity to re-roof many of the buildings that make-up historic Henry Ford Village, so when the time came to participate in the preservation of this neighboring facility Royal was thrilled to take part. The building consisted of two different roof sections that called for two different re-roof specifications. Phase-one of the replacement, the flat section, required Royal to tear-off the existing 24,000 Square Feet of "Coal-Tar-Pitch" roof and replace it with a new "Siplast System", over new inch and one-half of "Iso" and half-inch "Fiberboard" insulation. Phase-two was a sloped section that encompassed the perimeter of the building. This was more cumbersome due to the fact it required the removal of the existing 20,000 Square Feet of concrete tile, then install a new 20 gage metal deck, with a three-inch nail base insulation, all in which was covered by new standing-seam "Colonial-Red" metal roof. Because the EEB sits within the Dearborn Proving Grounds, cameras were not allowed on the premises. Therefore, pictures of the project are not available.



Photo Above: Historic Dearborn Inn,