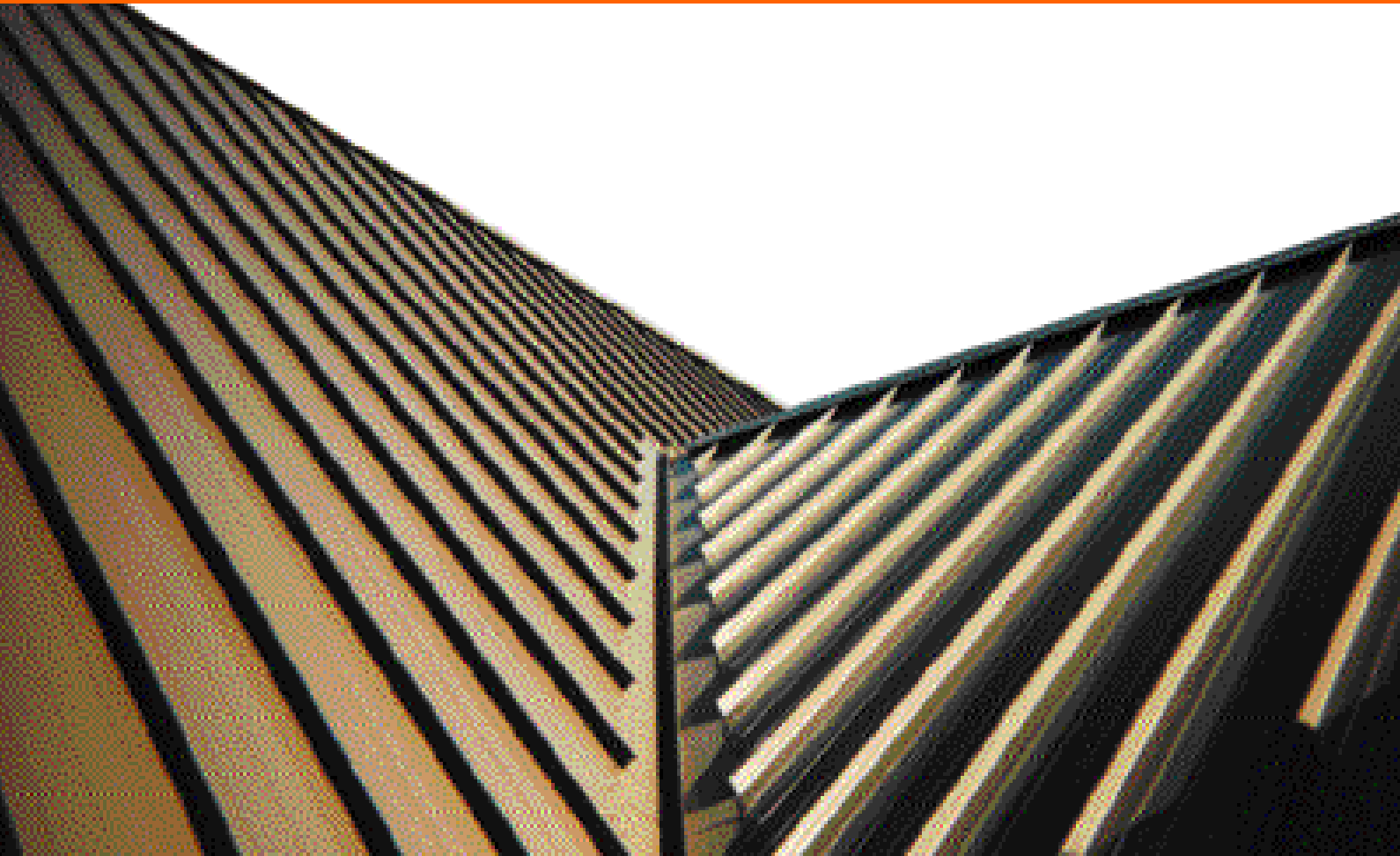


From Problem to Solution

THE BUTLER® DIFFERENCE



R E - R O O F I N G



Butler has long-term solutions for your building's roof

Most roof repairs are really only temporary solutions. By their very nature, most built-up or single-ply roof systems ultimately leak.

Butler offers two long-term solutions to whatever roof problems are compromising your structures — the Metal-Over-Metal System and the Slope Build-up Re-Roof System.

Both are shown here as practical, long-term and cost-efficient solutions to the kinds of re-roofing challenges you might face.

Install a Butler® Roof System that's affordable, durable and looks great.

In most cases, you can install either of our re-roof systems directly over your existing built-up, single-ply or metal roof. This saves you the cost of tearing off your current roof and avoids an interruption of your business activities during the process.

There are many other reasons why a Butler® Roof System should be your final choice. Here are just a few.

- **Affordability.** Many are surprised to discover that a new Butler retrofit roof is comparable in price to other shorter-term fixes. Additional savings are realized when you consider the improved energy efficiency that comes with the addition of new insulation. Remember, you can also save the cost of removal and disposal of existing roof materials by installing a new slope build-up roof system right over an old roof.
- **Longevity.** Butler standing seam roofs have been in place since the '60s. Research confirms that these roofs withstand decades of harsh sun, heavy rains, snow, ice and extreme temperatures without requiring major maintenance, much less replacement.
- **Flexibility.** Whether your roof repairs are basic or complex, Butler re-roof systems can fit your needs. We can install over all types of flat roofs to a variety of slopes, even steep-pitched roofs. And we can add pitch by installing a structural slope build-up system directly over a flat roof.
- **Durability.** Butler roof systems are engineered to last. Constantly changing temperatures cause a roof to expand and contract thousands of times each year. Butler roof systems are specifically engineered to allow for this natural thermal movement and provide long-term weathertight performance.
- **Aesthetics.** A new roof can dramatically change the appearance of a building. Butler can add color, provide a mansard or change a roof pitch to give your entire building a face-lift.
- **System Design.** Your roof is only as good as its weakest detail or component. With Butler Roof Systems, every aspect of your roof, from ridge to eaves, trims and flashings, interior or exterior drainage, roof openings and accessories has been designed to work in unison with the metal membrane to form a total system.
- **Reliability.** Butler Manufacturing Company is the worldwide leader in metal roof systems and introduced the modern standing seam roof in 1969. Since that time, Butler has installed the MR-24® roof system on two billion square feet of buildings all over the world. In fact, it has been specified more than any other standing seam roof.
- **Industry-Leading Warranties.** Because of the quality of our roofs, Butler can offer the best warranties, including the industry-leading Butler Weathertight Gold™ Limited Roof System Warranty. This warranty assures up to 20 years of weathertight protection and includes full-system coverage of roof curbs and pipe penetrations on a non-prorated basis during the entire warranty life.

Skyline™ Structural System

Create a striking architectural roofline with the light gauge Skyline™ Structural System. The Skyline trusses arrive at your job site preassembled for fast and easy installation. A metal or wood deck allows you to install virtually any type of roof.

VSR™ Standing Seam Metal Roof System

Combine structural integrity with aesthetic appeal. The strong visual lines and variety of colors make the VSR™ metal roof system the right choice for all types of building solutions. Whether it's used to recover asphalt shingles, on slope-enhancing frames or atop the Skyline structural system, you'll find VSR is your best choice for maximum weather protection and curbside appeal.

Re-roofing Over Shingles

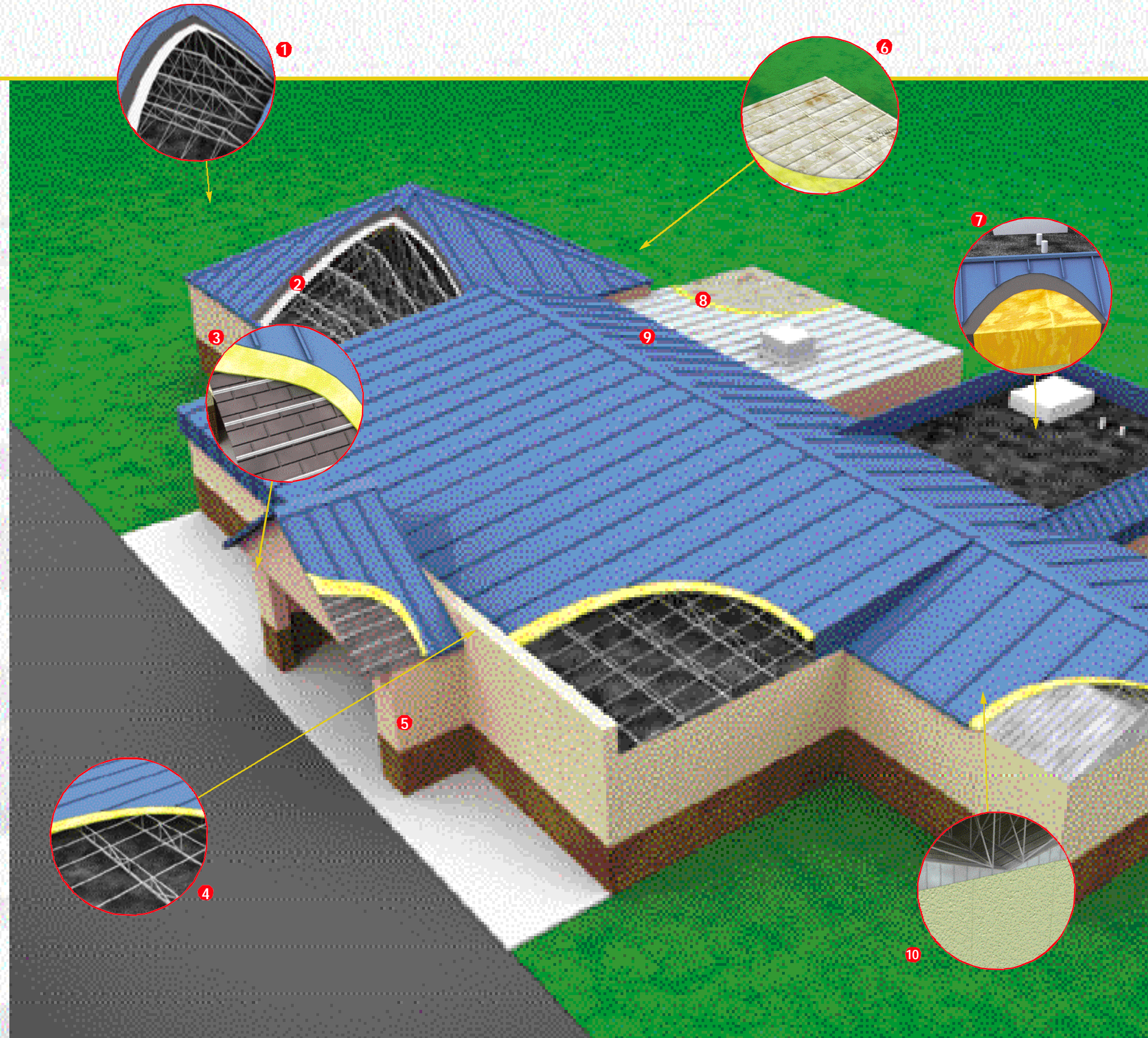
Sub-purlins are attached to the existing deck or joist, and one or more layers of blanket insulation are added to increase energy efficiency. Often in this application, the VSR standing seam metal roof system is selected because of its outstanding performance combined with lasting beauty.

Slope Build-up System

Flat roofs often leak. Water cannot drain quickly and therefore the contents of your building are at risk. A slope-enhancing steel framing system engineered to withstand the toughest building codes can permanently add slopes up to 30 degrees (7" on 12") on your roof, more than enough for most buildings to quickly shed damaging ponding water. The system is flexible enough to perform with all structural metal roof panels and can also create enough area to add insulation to drastically increase your building's energy efficiency.

Wall Systems

Re-siding transforms aging buildings into showpieces. We offer a wide variety of wall systems suitable for any type of construction, ranging from the most economical to custom designs incorporating the materials of your choice.



Low Profile Metal-Over-Metal System

Thru-fastened metal roofs have a shorter life span than standing seam roofs. A low profile metal-over-metal system easily attaches to your building's roof structurals, reducing roof panel loads and virtually eliminating all leaking caused by exposed fasteners. Additional insulation can be added for increased energy efficiency.

Snap-It™ Architectural Standing Seam Metal Roof System

This quick and easy-to-install system provides a striking appearance to any building and is perfect for equipment and site screens—or for an entire re-roof. Our industry-standard details and non-mechanical seam ensures that it installs with basic sheet metal tools.

MR-24® Standing Seam Metal Roof System

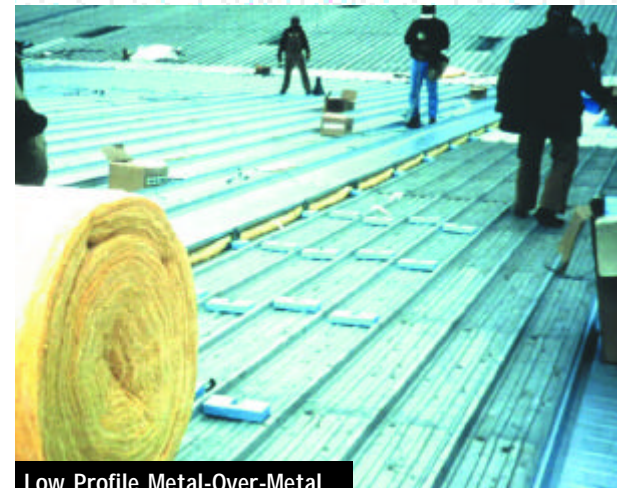
Butler's long-term low-slope roof solution is the MR-24 roof system—the most specified metal roof in the industry. Developed in the 1960s, the MR-24 roof has far outpaced all of its long-term warranties and consistently outperforms all other low-slope roofs in such critical areas as life cycle costing, annual maintenance requirements and serviceability.

Roof Mounted Equipment

Roof mounted equipment can often mean the difference between a roof that is performing and one that is leaking. Eighty percent of all roof leaks occur at these locations. Butler is the only metal roof manufacturer who has designed and patented its own roof curb to meet the industry's most stringent requirements. The Internal Flange (IF) curb comes in many standard sizes as well as custom manufactured for all roof openings. The right curb makes the world of difference in your roofing system. Count on Butler's IF curb, backed by the optional 20-year Weathertight Gold™ Warranty, to ensure your roof is leak-free for decades to come.

Re-sloping for Water Management

Often a metal building is built and then at a later date expanded. This common occurrence can transform what was originally designed to be an exterior gutter into an interior gutter that must be watertight! Butler offers a unique solution to this problem. By reverse sloping the affected roof areas with a Butler-engineered steel framing system, you can effectively redirect the water drainage to the exterior of the building.



Low Profile Metal-Over-Metal



Slope Build-up Framing System



Problem:

The original thru-fastened metal roof on this Winnebago facility had reached the end of its life cycle. Adding insulation and creating a leak-free interior area for manufacturing and warehouse were critical.



Solution:

A low profile metal-over-metal MR-24® standing seam roof was installed during regular operating hours. Its specially tooled panel clips and retrofit trims are special features of a long-term roof that will last years beyond that of the original roof.



Problem:

This bus garage suffered from leaking valleys at the intersection of three different roof planes. The leaks caused secondary wood structurals to deteriorate, eliminating the possibility of bearing additional load. Since the building was in constant use, the roof leaks were becoming a hazard for employees.



Solution:

Butler's solution was to re-slope affected roof areas. To accomplish this without adding weight to the existing deck or purlins, Butler engineered trusses to span from bearing wall to bearing wall. This design removed the valleys without tearing off the roof. Operations were maintained throughout the entire process.



Problem:

This Ford Motor Company assembly plant had 260,000 square feet of uninsulated roof area covered with failing concrete roof tiles. The roof retrofitting had to be done without disrupting the assembly operation below. Reducing energy costs was also a significant consideration.



Solution:

Ford chose the MR-24® standing seam metal retrofit roof system. The new MR-24 system utilized Z-shaped sub-purlins for attachment to the existing roof tiles. A layer of four-inch fiberglass insulation was installed under the new roof panels, providing significant long-term energy savings.



Before



In Progress



After



Over the years, the Drumlins Country Club had grown from two dairy barns to a rambling complex with different styles of architecture and roofs. And the roofs were deteriorating. Buckets were hung from suspended ceilings to catch the leaks. The job was a contractor's nightmare.

Two major renovations included a 25,000-square-foot re-roof of its indoor tennis building and a 30,000-square-foot roof retrofit of its main

clubhouse. A Butler Builder® used a bright-blue VSR™ architectural standing seam roof system that was accommodating to the design demands of a challenging roofline. The complex project won an industry Re-Roof Award.

To discuss your options or to obtain a proposal for a Butler re-roofing solution, call toll-free, 1-800-998-7663. Or call your qualified local Butler Builder®. You'll find them in the Yellow Pages under "Buildings Metal" or at www.butlerbuilder.com.



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