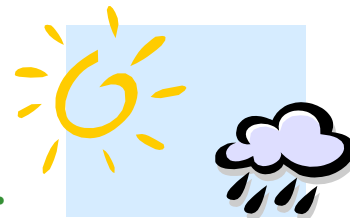


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Project Profile - R & A Contracting

PROJECT: Gold Dome

CONTRACTOR: R & A Contracting, Sam Rowley

SYSTEM: Acrylic Coating Over Polyurethane Foam

2001 Phase: 750 SQ

The Gold Dome at Centenary College has been a landmark for years. Everyone is familiar with the gold colored dome that houses a variety of events for the college and community. Time and use however, had taken its toll on the roof structure.

The dome was originally constructed of gold colored metal panels. The construction offered

minimal insulation. Lack of insulation coupled with expansion

and contraction of the roofing structure during temperature changes, caused elusive leaks that seemed to move over time.



Application of coating to foam and the finished project.

Enter Sam Rowley, owner of R&A Construction. He discussed the options with Centenary College and both

parties agreed that ERSYSTEMS polyurethane foam and coatings system would solve all problems - stop the leaks, add structure and strength to the roof sys-

tem, and provide much needed addi-

"We turned off one of the two AC units used to cool the dome..."

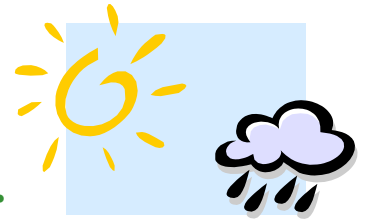
David Martin, Centenary College

tional insulation. Before starting the project, the benefits of the added insulation needed to be quantified. How much is enough? An energy analysis was performed by ERSYSTEMS on staff CEM



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(Certified Energy Manager). The initial results showed cooling benefits of over \$10,000 per year and heating benefits of the same magnitude. With the green light, R&A started the project late in 2000 and had the roof foamed and base coat applied by January 2001.

At the project start, both AC units used to control the dome climate were turned off. After foaming was complete, one unit was turned on. The thinking was to use the second unit during the summer months. "Both units couldn't keep the building cool in the summer before the project," said David Martin of Centenary College. "We

tricity used (kWh) and the electrical demand (kW) have been decreased in the first half of 2001. Both of these are used to calculate the energy bill.

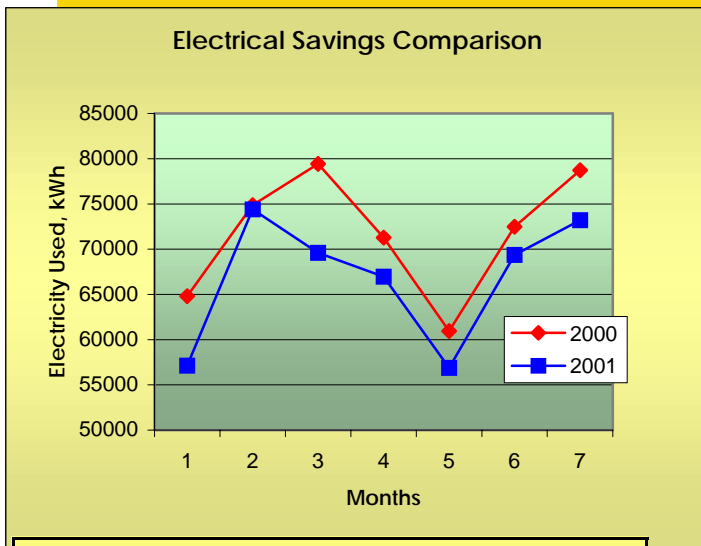
Mike Denoux of R&A's Shreveport Branch explained the project. "Because of the type of roof, foam was the best choice. Drainage was not a problem so we could use ERSYSTEMS high performance acrylic coating, EG1000, over the foam. We sprayed an average of 2 inches of spray polyurethane foam, 2 gallons per square of EG1000 Grey as a basecoat and 2.5 gallons per square of EG1000 Custom Gold to match the existing roof. The project was demanding to say the least."

"Foam was the best alternative," confirmed Rowley. "It was the only way we could seal this unconventional roof type. It's great to have a manufacturer like ERSYSTEMS that offers roofing options and has experience with the energy effects of what we do as roofers.

Working with ERSYSTEMS and their products is a great experience. We have been very happy with the results and the relationship over the last several years."

R&A looks forward to additional work at the college based on the success of this project. Centenary College knows a water tight roof with the added benefit of

insulation is hard to beat.



Average monthly temperatures for 2000 and 2001 were very close with the exception of February of 2000 (cold) and March of 2000 (warm).

turned off one of the AC units thinking we would bring it online in April or May. We have not had to use it yet. Our dome electrical bills are averaging \$1,200 less per month."

Energy bill analysis showed that both the amount of elec-

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