



Hickman Engineering Meets the Complex Design Challenges for the M Resort Spa Casino

Building Type: *Casino/Hotel*

Project: *M Resort Spa Casino
Las Vegas, NV*

Architect: *Marnell Corrao
Associates, Las Vegas, NV*

Contractor: *Southland Industries*

Hickman Representative:
*Ron Cole, Elite Architectural
Products*

Materials: *Engineered Custom
Coping in 1.0 mm Umicore
Anthra Zinc, Pre-Weathered
Black.*

The W. P. Hickman Company has focused on developing the best Engineering Department in the industry to face the requirements of the customized roof edge designs that make up their business. Stronger roof edge standards, such as the ANSI/SPRI ES-1 standard, are now required by the International Building Code and specifiers are calling for edge systems that they know will withstand the wind loads needed for the metal to stay on the building. Hickman's Engineering was put to the test with the design of Las Vegas' newest addition, the M Resort Spa Casino.

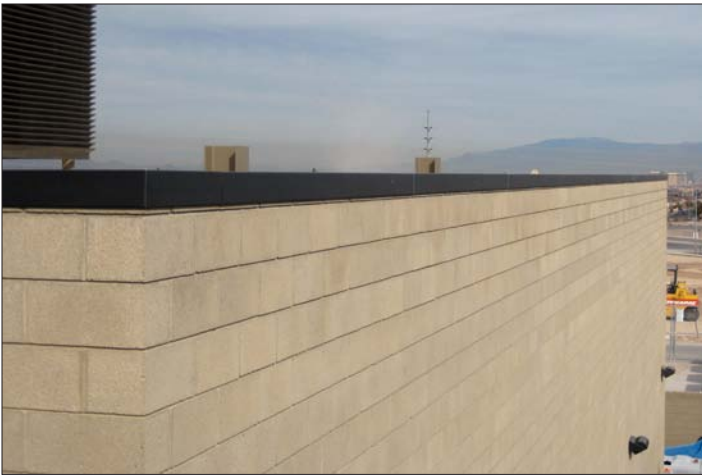
The unique design of the billion dollar project called for a coping cap system in Pre-Weathered Anthra Zinc, a 100-year material. This project was a

high profile, complex job that needed meticulous detailing. Engineered custom details and shop drawings were produced in very specific detail along with an extensive manufacturing breakdown to ensure that the coping system was designed, manufactured, and installed flawlessly. In one area, the wall width of the coping spanned 52 inches. Because of this unusually large coping cap size and the nature of the zinc material, Hickman Engineers determined that the cap would stretch, relax, and subsequently disengage from a standard cleat. Dr. Robert Steffen, Hickman's Director of Engineering enjoyed the challenge of coming up with a way to solve the problem with his team. "We look forward to projects like the M Resort, where we can test our engineering

W.P. Hickman Company

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capabilities to meet the unique designs that architects put forth”, Steffen expressed. The Hickman engineering team designed a custom front spring that provided a solution that would meet the ANSI/SPRI ES-1 standard. Hickman has pull testing apparatus at their headquarters in Asheville that allows their engineers to make adjustments to product designs for optimal performance. The RE-3 pull test required for coping in the ANSI/SPRI ES-1 standard was performed in house and the custom designed cleat performed extremely well.

Ron Cole of Elite Architectural Products was the Hickman Representative for the project. He

made numerous field checks on the project to ensure that everything was moving smoothly on site. He worked closely with all the parties involved from start to completion. Ron’s diligence and his attention to detail paid off with a beautiful roof edge that will perform over time. Tom Richardson of Marnell Corrao Associates was the Project Manager for the immense job and said, “Ron was a pleasure to work with and extremely helpful from the start. He knew exactly what product to recommend and saw the whole process through. When I had questions, he had answers. He checked in with Hickman and kept us aware of when drawings were ready and when

material delivery was scheduled.”

Mr. Richardson also commended the Engineering team at Hickman. “The engineering drawings were very professional and clear to understand. The products were of very high quality and are an instrumental part of the building.” Mr. Richardson said that he would definitely work with Hickman and Elite Architectural Products again on future projects.



To find your Hickman representative visit web site at www.wph.com
or call 1-800-892-9173

Represented by: