

New Las Vegas Hotel Design Reaches Soaring Heights with GCP

Fontainebleau Las Vegas utilises PREPRUFE[®], BITUTHENE[®], and HYDRODUCT[®] for top-quality waterproofing.



Project	Fontainebleau Las Vegas
Owner & Developer	Fontainebleau Las Vegas LLC, Las Vegas, NV
General Contractor	Turnberry West Construction, Las Vegas, NV
Architect	Bergman, Walls & Associates, Ltd., Las Vegas, NV
Fireproofing Applicators	Aderholt Specialties, Las Vegas, NV LVI Environmental Services, Inc., Las Vegas, NV
Waterproofing Contractors	Technicoat Management, Inc., Las Vegas, NV Commercial Roofers Inc., Las Vegas, NV
GCP Solutions	Preprufe [®] pre-applied waterproofing, Bituthene [®] waterproofing, Hydroduct [®] drainage composite, Monokote [®] fireproofing

The Overview

The Project

With a modern and chic style in the spirit of the original famed Miami Beach Fontainebleau hotel, the new Fontainebleau Las Vegas promised to be a showstopper in hotel architecture and design—even by Las Vegas standards.

Rising on 24.5 acres, the over-3,800-room, 63-story destination casino resort includes lavish accommodations, a 100,000 square foot (9,290 m²) casino, one of the largest decks in Las Vegas at about 480,000 square feet (44,593 m²), top-notch restaurants, spas, cocktail lounges and shops.



"Because of the complexity of projects in the resort and casino industry, waterproofing is critical. The expertise that GCP provides during the design and construction phase and the quality of their products is why we turn to them year after year."

Robert Frederickson, Principal and Project Architect, Bergman, Walls & Associates, Ltd

The Challenge

To make sure the project was done right the first time and lived up to its esteemed name, the talented hotel design and commercial building construction team used leading-edge construction practices and products. GCP was involved early on in the project in helping design the waterproofing specifications with the hotel architects. And while the fireproofing was an open specification, GCP products were unanimously preferred and chosen by the fireproofing contractors.

“When it comes to waterproofing, we have a comfort level both working with the people at GCP and the products”, said Robert Frederickson, Principal and Project Architect at Bergman, Walls & Associates, Ltd. “We’ve been using GCP waterproofing in our hotel designs for years and we count on their knowledge and experience to ensure the job’s done right”.



"I've tried using other fireproofing products and those companies just want to sell you material and don't have the answers or expertise that's often required on projects. GCP Applied Technologies has stepped up every time I've asked them"

Chris Valvo, Aderholt Specialties

The Solution

GCP's commercial building structural waterproofing solutions were employed throughout the massive resort and casino's below-grade applications, including:

- PREPRUFE® Pre-Applied Waterproofing System (PREPRUFE®300R & 160R) to seal the project's concrete structures
- BITUTHENE®3000 self-adhesive waterproofing membrane
- HYDRODUCT®220 and HYDRODUCT®660 Drainage Composites to collect and transport water

In addition, PROCOR® Deck System 3R and BITUTHENE® DECK PREP® were applied on the swimming pool and plaza decks.

With the focus on high fireproofing standards in Las Vegas, MONOKOTE® MK-6®/HY®, Z-106/HY, and Z-146 were also applied. These products were used for structural steel thermal protection in:

- Exterior non-exposed applications: casino, ballroom and convention spaces.
- Interior exposed conditions: the underside of the pool area and mechanical rooms.
- Exposed areas: all multi-storey car park levels.

Praise for GCP Applied Technologies

GCP's structural waterproofing products brought innovative technology to the hotel design's extensive below-grade applications.

"GCP is more than just their products", said Chris Valvo from Aderholt Specialties, one of the fireproofing contractors. "They bring the full package: technical support, knowledge, years of experience. They're easy to work with and help me make sure the job is being fireproofed correctly".

Ryan Crowe from LVI Environmental Services also knows his fireproofing crew is comfortable with GCP products. "Because of their experience with MONOKOTE®, we're able to work more productively and efficiently", said Crowe. "That's vital on a job this size".

While there will be plenty of gambling at this resort casino, with its top-quality waterproofing and state-of-the-art fireproofing, the Fontainebleau Las Vegas isn't taking any chances when it comes to hotel architecture and commercial building quality.

Blue360SM Total Business Advantage: *The power of GCP products, performance and people.*

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