

# The Ambience Group Caitriona Golf Course • Gurgaon, India

**Firestone**



## Firestone PondGard Lining for Life at Caitriona Golf Course



Gurgaon, a fast-growing city and important industrial area about 30 km away from the city of New Delhi, India, has added another excellence to its beauty : Ambience Caitriona.

Ambience Caitriona, the first ever Seven Star condominium project with golf course, are the nearest condominiums to the domestic and international airport. The golf course is surrounded by high end apartments. The course was designed by N&H, one of the most renowned Golf Course Designers. The 9 hole pitch and putt Golf Green is placed in the heart of the Ambience Island township with a surface of approximately 12 hectares. There are one big and two small lakes, interconnected with streams that run in the middle of the golf green. These lakes do not only embellish the landscape, but provide irrigation water for the green areas.

Excellent durability in extreme weather conditions, superior physical properties, high flexibility to adapt to the shape of the lakes and minimal environmental impact were just some of the characteristics that resulted in the choice of Firestone PondGard EPDM membrane for the lining of

### Quick Facts

#### Project scope :

- 23.000 m<sup>2</sup> of lining completed with 1.02 mm Firestone EPDM PondGard membrane
- High visibility and prestigious project
- Deliver excellent waterproofing to preserve water for irrigation of adjoining greens

#### Challenges faced:

- Tight time frame
- Adverse weather conditions at the time of installation
- Accommodation of significant design changes
- Many aesthetic features in the golf course

#### Solutions offered by

##### Firestone EPDM PondGard :

- Waterproofing membrane
- High elasticity (>300%)
- Long-term durability
- Large sheets reducing onsite seaming
- Fast and easy installation
- High flexibility (at high and low temperatures, as a result adapts to irregular shapes)
- Puncture resistance

the lakes of Caitriona golf Course in Gurgaon. Previous successful applications of Firestone lining systems in Indian climate conditions also provided the design team the confidence to use again the Firestone lining system for their project.

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After the excavation and compaction of the lakes were completed, the installation of the lining system was carried out by a Firestone authorized contractor, who had previous experience with the installation of more than 50.000m<sup>2</sup> of Firestone lining systems. This was required to ensure the high quality lining work that needed to be delivered in a tight time frame.

On the compacted soil substrate, a geotextile is first laid to provide extra puncture protection to the membrane. Two adjacent geotextiles were overlapped and welded to avoid movement under the PondGard membrane. 9m x 30m panels of PondGard membrane were selected for this project to minimise installation time and on site seaming. All the details on the membrane such as membrane seams, pipe details are made as per Firestone specifications and using Firestone accessories. The membrane is then anchored along the edge of the lake using anchor trench method.

During the execution of the lining works, the project was supervised by an experienced supervisor from the Firestone authorized contractor. There also was a continuous support from DBS Building products (authorized Firestone distributor) during the design phase as well as during the installation of the lining system. A Firestone Contractor Services engineer has regularly visited the site for onsite training and to ensure that the installation was executed according to Firestone technical guidelines, providing peace of mind to the client and ensuring him that a high-quality, long-term lining solution was being achieved.



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