

CASE STUDY

A decorative graphic consisting of three parallel, slanted yellow bars of varying lengths, positioned to the left of the main title.

WESTIN DENVER INTERNATIONAL AIRPORT

LOCATION: DENVER, US

COMPLETION DATE: 2015

SYSTEM: FiberTite® XT SYSTEM

SECTOR: AVIATION - REFURBISHMENT

ROOF AREA: 4,645 M²



WESTIN DENVER INTERNATIONAL AIRPORT

BACKGROUND:

The Westin Denver International Airport is the first hotel built to service travellers at Denver International Airport (DIA), the 15th busiest airport in the world and the fifth busiest in the United States. A convenient destination for business and leisure travellers, the hotel is part of the city's new Hotel and Transit Center which includes a public transit station with rail service to downtown.

CHALLENGES:

The hotel is uniquely situated on airport property. The acclaimed architect, Gensler, with offices worldwide, took on the challenge of designing a building that would not obstruct the line of sight of air traffic controllers. The result is a one-of-a-kind, sleek and modern design that is built upon the imagery of flight and aviation. Resembling a bird in flight, the building is wing-shaped at each end, and the centre dips 50 feet to allow controllers a full view of the airways from the tower. The roof of the hotel showcases the design to the estimated 53 million travellers passing through DIA each year. Decision makers wanted a durable and hassle-free roofing system that could withstand Colorado's extreme Rocky Mountain climate, delivering snow, ice, hail, high wind, and a guaranteed 300 days of sunshine each year. The product also needed to be resistant to jet fuel fallout from the planes passing overhead. Roof installation was another challenge. Airport security practices extend to all parties on airport grounds. Crews installing the roof had to pass background checks and get security clearance daily. Furthermore, to keep airways and landing strips free from flying debris, all products and equipment had to be hauled onto and off the roof each day.

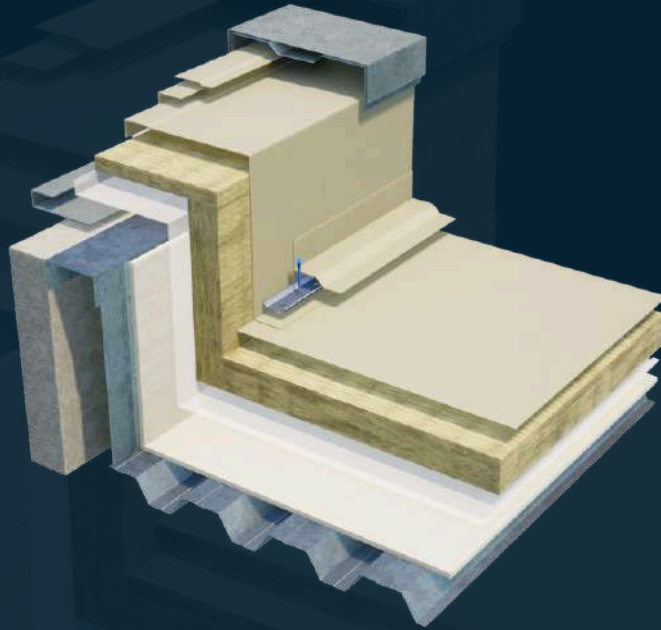
SOLUTION:

In the spring of 2015, Douglass Colony Group, based in Commerce City, Colorado, an authorized FiberTite contractor, installed a fully adhered, fleece back MOY FiberTite XT membrane on the roof of the new Westin Denver International Airport hotel. The system includes Dens Deck® prime cover board and two layers of two-inch polyisocyanurate, with a torch grade venting vapor barrier over the primed lightweight structural concrete deck.



SYSTEM USED

FiberTite® XT SYSTEM



BENEFITS:

- Utilising Elvaloy technology to create a KEE-PVC waterproofing membrane that provides superior performance over other single ply membranes.
- Superior fiber reinforcement provides unrivalled puncture resistance, tensile strength and resistance to foot traffic.
- Cold flexibility at temperatures as low as - 20°C.
- Elvaloy is used instead of liquid plasticisers, eliminating Plasticiser migration providing resistance against chemical, bi-product and environmental factors.
- Available with extended system warranties and a service life in excess of 25 years.
- Factory Mutual Certified Assemblies (consult MOY or RoofNav for further info)

