

Another Sky Climber Reference!

Siège Orange, Lille, France



- DIVISION:** Sky Climber Europe
- PROJECT NAME:** Siège Orange, Lille, France
- APPLICATION:** Inclined Monorail for Facade Maintenance / Window Cleaning

The new headquarters for the north of France for the Telecoms giant Orange, were recently inaugurated in Lille. The 19,000m² building has curtain wall facades and an internal atrium. The roof terraces are on multiple levels and are partially accessible to the occupants. The perimeter of the roof terraces is covered by an architectural parapet that provides a single continuous visual line with sections of the parapet with an inclination from horizontal going up to 5 deg.

Sky Climber was selected to design a cleaning system with monorails that would follow the upper edge of the parapet line. The monorail would therefore also have an inclination from horizontal up to 5 deg. A Sky PI cage is suspended from the monorail to maintain all facades of the building.

The Sky Climber aluminum monorails were finished in grey RAL powder coating and are fixed to the building by RAL powder coated brackets.

The Sky PI Cage easily traverses on the monorail by means of a motorized trolley that was specially adapted to ensure correct traction when the slope reached 5 deg.

One of the challenges was to design brackets that could cope with the variation of slope from 5 deg. to horizontal, but also when going around a corner at the same time. Special modular bracket heads were designed to allow the vertical fin to be installed following the vertical lines of the frames of the curtain wall and the bracket head to be oriented to match the various inclinations of the rail.

In total thirty different bracket configurations were required.

Vertical run	25m
Suspension System	SC134 Monorail with motorized Trolleys with inclination of max 5 °
Type of cradle	Sky PI Cage
Self-Weight of cradle	180kg
Rated Load of cradle	120kg
Hoisting	LNx hoist, 400V/three phase
Norms	European Norm EN1808