

Another Sky Climber Reference!

International Thermonuclear Experimental Reactor (ITER) – special platforms



DIVISION: Sky Climber Europe
PROJECT NAME: ITER Tokamak Fusion Reactor, Provence, France
APPLICATION: Special cantilever platforms

ITER (International Thermonuclear Experimental Reactor) is a research and engineering megaproject to build a nuclear fusion reactor. Located in Provence, southern France, ITER will be the world's largest magnetic confinement plasma physics experiment.

Sky Climber was selected to provide the access solution for the vertical walls in the central cylindrical structure that will house the vacuum vessel of the plasma container.

The most effective solution was determined to be five special cantilever platforms suspended from a monorail system. The platforms will be used during the construction phase to install all the various parts around the plasma container.

The position of the monorail was determined by the steel structure and was further away from the vertical walls than was ideal to position the platforms.

The platforms were constructed with offset suspension points that allowed the platforms to reach in 1.6m from the line of the monorail. Counterweights were fitted to the rear of platform to keep the system in balance and provide a stable work area.

Vertical run	40m
Monorail	90m (circular)
Self-weight cradle	700kg
Size of cradle	3000mm long
Cantilever	1650mm (front)
Cradle rated load	240kg
Hoisting	Self-powered cradle with Alpha 500 hoist
Norms	European Norm EN 1808