

Gran Torre Costanera Santiago, Chile

With a height of 300m (984 ft.) The Gran Torre Costanera in Chile is Latin America's tallest building and one of Santiago's most prized structures. Isolatek International's CAFCO[®] 400 / ISOLATEK[®] Type 400 was selected by Pelli, Clarke, Pelli Architects as the only passive fireproofing protection to satisfy the demands of this project.

Constructed primarily for office space with approximately 240,000 people frequenting the area daily, the Gran Torre was built to withstand the seismic affects of earthquakes as well as effectively protecting its occupants in the event of a fire. This commitment of its owners, Cencosud S.A., to green architecture together with life safety, is fully exemplified in the design and choice of materials for the Gran Torre.

The use of passive fireproofing was paramount to protecting the structural steel from collapse and achieving the required fire protection. Isolatek International's spray-applied medium density Portland cement based material, CAFCO 400 / ISOLATEK Type 400, was chosen for all sixty four stories of floor beams based on a number of attributes; its track record for durability, documented physical performance characteristics, and ability to offer the best fire resistive performance per unit thickness.



All sixty four stories of floor beams were sprayed by Isolatek International's local recognized applicator, Accuratek S.A. These specially trained professionals, with over 20 years of experience in the industry, ensured the material was applied in the most cost effective and proficient manner possible with close attention to correct thicknesses and sequencing. This allowed the completion of the fireproofing portion of the project to be completed on time and in accordance with specified parameters.

CAFCO 400 / ISOLATEK Type 400 meets the current IBC[®], INTERNATIONAL BUILDING CODE high rise bond strength requirement of ≥ 430 psf and 1000 psf. Extensively tested for fire resistance, CAFCO 400 / ISOLATEK Type 400 is classified by UL in accordance with the test method and acceptance criteria of ANSI/UL263 (ASTM E119 Fire Tests of Building Construction and Materials) and is rated for numerous steel design assemblies for up to 4 hours. In addition CAFCO 400 / ISOLATEK Type 400 has been tested for surface burning characteristics in accordance with ASTM E84 (ANSI/UL723) and is rated Class A with 0 flame spread and 0 smoke developed.



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ISOLATEK INTERNATIONAL® provides passive fireproofing materials under the CAFCO® and FENDOLITE® trademark throughout the Americas and under the ISOLATEK® trademark throughout the world.



Brand

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