

CRESCO 

COMPANY PROFILE

# Structural engineers with global expertise.

[WATCH CRESCO GROUP SHOW REEL](#)

**Specialized.** We are structural engineers specialized in foundation and steel structure designs for residential, commercial, industrial and infrastructure constructions.

**International network.** We provide the best engineering solutions to suit local needs by sharing knowledge and fostering cooperation across our international network of experts. Through the years we have completed high scale projects in 32 countries.

**Customer oriented.** We value relationships with our Customers and we always provide a tailored and personal service. Our teams are sized and managed to ensure prompt action. We have been able to handle complex high scale projects up to monthly workloads of 8,000 hrs.

**Working around the clock.** We can handle tight deadlines by coordinating by our teams of engineers in Europe and Australasia.



● Projects Completed

● Cresco Offices

# Bridging to the future of foundations.

VISIT [CRESCO.CO.NZ](https://www.cresco.co.nz)

Marco Panzano  
Head of Technical  
at Cresco Group

Fabio Parodi  
Inventor of the  
technology behind  
the systems

Armadillo™ Pod  
(750x750x500 mm)  
the award-winning  
system delivering  
superior structural  
resilience under  
heavy loads.

RibRaft™ X-Pod™  
(750x750x215 mm)  
The next generation  
for Firth RibRaft™  
residential foundations.

# Performing in all ground conditions.

VISIT [CRESO.CO.NZ](https://www.cresco.co.nz)

The Armadillo™ Foundation System is a new construction method to build robust, cost effective, environmentally smart waffle shaped foundations for heavy duty applications (e.g. multi-storey apartments, commercial buildings...) or for constructions on grounds for specific conditions (e.g. soft, liquefiable, highly expansive...)

The Armadillo™ Foundation System is far the strongest proprietary foundation system available in New Zealand and, in most cases, it is more cost effective than other foundation options as it eliminates time-consuming activities on site.

Freight costs are also reduced, as all the components are stackable and easily transportable.

The Armadillo™ Foundation System can be used as a robust and stiff shallow raft or supported on deep piles.

The Piletop™ technology allows an effective horizontal decoupling between the slab and the deep piles.

Armadillo™ 500 Pod

Piletop™ 300 on a 300 mm diam. driven timber pile

Residential Development on liquefiable ground (TC3)

Armadillo 500™ Foundation with Piletop™ 300 on piles.

Kaiapoi (New Zealand)

# Trusted partners for remarkable projects.

[WATCH A VIDEO ABOUT AEROVILLE](#)

Cresco has been involved in the engineering design of high-value commercial buildings.

Aeroville is a 355 million euros Unibail Rodamco project hosting 200 shops, 30 restaurants, 12 Europacorp Cinemas and a 15,000 m<sup>2</sup> Auchan supermarket.

Cresco undertook the detailed engineering of all the steel structures of the mall optimising the original design provided by the Client and allowing a 20% reduction of steel weight.

For this project, Cresco issued about 800 detailed plans over 2 years of work reaching monthly workload peaks of 3,500 hrs.

Shopping Gallery  
length 1.2 km

Europacorp Cinemas

Place Nord  
42 m free span sky-dome

Plug  
16 m cantilever

Aeroville Shopping Mall

Steel Structure Design

Paris (France)

# The highest level of complexity.

## MORE ABOUT AP1000 NUCLEAR POWER PLANT

There is nothing more challenging than designing structures for a nuclear power plant station and only a selected number of engineering firms are accredited for operating within this specific field.

Cresco is proudly one these high-profile firms.

During the last decade Cresco has provided engineering design for structures of nuclear power plants in Asia and South America.

Cresco, for example, has worked on the Westinghouse AP1000 project, a "first of its kind" advanced third-generation nuclear power plant.

Cresco designed steel struture decks above the reactor within the Steel Containment and the reinforced concrete conical roof.

Passive Containment  
Water Cooling Tank

Concrete Shield  
and Steel Containment

AP1000 Nuclear Power Plant

Internal steel structures Design  
Roof lifting Analysis  
Reinforced concrete roof design

Sanmen (China)

# Structures for the world on the move.

[DOWNLOAD CRESCO WORKS PORTFOLIO](#)

Cresco has carried out designs for a variety of infrastructure projects: airports, roads, railways, intermodal logistic hubs, metros and bridges.

In 2014, Cresco participated in a design competition for a new bridge over the Serchio River in Italy. The construction of the bridge had a total budget of 35 million euros.

Cresco prevailed on a large number of prestigious European entrants achieving the gratifying result and prize for the third place.

Single Span 180 m

Serchio Bridge (competition)

Finalist - 3rd Place  
The proposed bridge (render)

Lucca (Italy)

# You are welcome.

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Cresco Group Headquarters

Palazzo Cattaneo Adorno  
UNESCO Heritage Palace  
Detail of the ceiling

Genova (Italy)

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