



2201 Westlake/Enso

Location:	Seattle, WA
Submitted by:	Cary Kopczynski & Co.
Owner:	Vulcan Real Estate
Architect(s):	Callison Architecture
Engineer(s):	Cary Kopczynski & Co.
Contractor:	Sellen Construction
PT Supplier:	PTC

Project Overview:

For the first time in one building, 2201 Westlake/Enso combines high-strength 100 ksi reinforcing steel with an ultra-long span floor system using a drophead design at the core. The building marries high-end condominiums with long-span office space, spacious ground-level retail, and user-friendly subterranean parking. It is a true mixed-use building—the structure is the result of innovative solutions applied to a complex design program.

2201 Westlake/Enso is a cast-in-place concrete structure featuring concrete shear walls and a combination of one- and two-way post-tensioned slabs. The structural frame was selected to satisfy the architectural layout without compromising the owner's vision for open and spacious floor plans for office, retail, residential, and parking use. In addition, the combination of structural systems kept construction costs in line with the project budget and delivery objectives.

The building incorporated many exceptional structural features as follows:

- Long post-tensioned spans throughout;
- Cantilever beam to lengthen post-tensioned slab spans;
- Subterranean post-tensioned slab shrinkage control;
- Open loading dock with post-tensioned girders;
- High-strength reinforcing bars;
- Seismic core efficiency; and
- Outstanding exterior façade.

Jury Comments:

- Creative structural solution where the use of post-tensioning directly led to the success of this mixed-use project.
- Design accommodated four different uses (parking, retail, office, and residential) stacked vertically in the building without column offsets and transfers.
- Used an innovative combination of PT and high-strength concrete and reinforcement.
- The long-span PT design facilitated the minimal use of interior columns and construction of the curved exterior façade.