

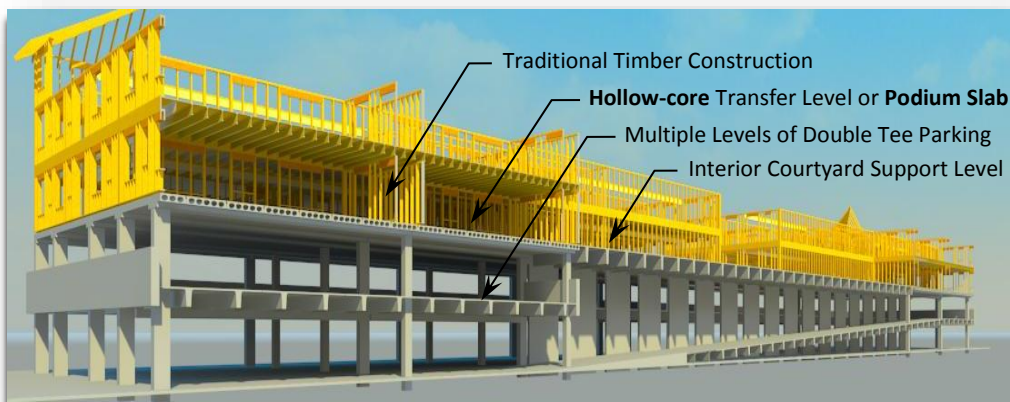
Multi-Family Podium Construction Precast Solutions

In multifamily residential structures, a concrete Podium Slab typically acts as both a structural floor and as a transfer slab for wood and light gauge steel framed construction above. Usually these slabs are situated above parking levels and as such require higher fire ratings and reduced sound transmission.



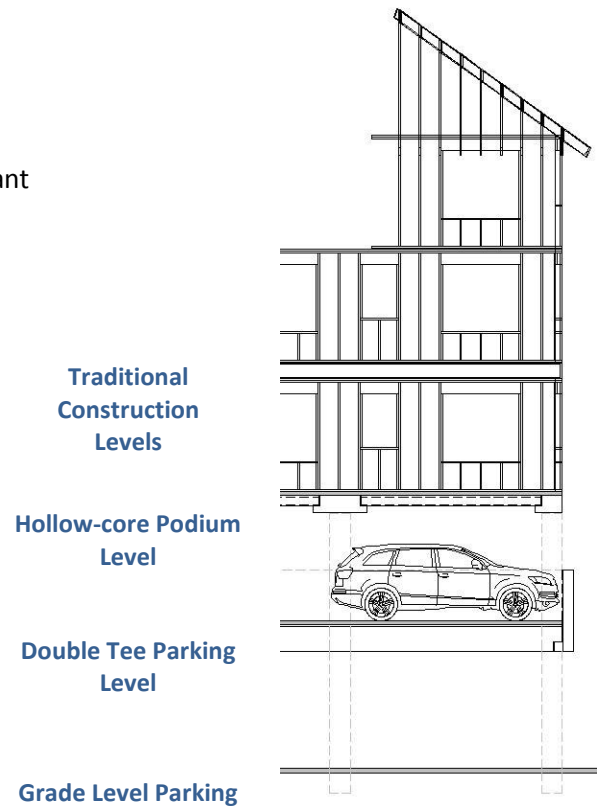
Prestressed Hollow-core floor members offer a distinct advantage over other traditional slab materials for the following reasons:

- Hollow-core is fast and simple to install. It requires no shoring, and depending on the superstructure, erection rates are 4,000 – 10,000 sq. ft. per day.
- Hollow-core can be used to support multiple floor and wall loads from above.
- Hollow-core is ideal for floor slabs above garage parking levels due to its inherently high fire rating and low sound transmission qualities.
- Hollow-core requires less field placed concrete and reinforcing steel.
- Hollow-core along with a precast frame is sustainable – a prefabricated structural system limits the environmental impact of building construction.
- Hollow-core along with precast frame results in less jobsite congestion than conventional building construction.



Precast Podium Slabs

- Premium Quality – Manufactured in a PCI Certified Plant
- Faster Time to Market Equals Increased ROI
- High Fire Ratings and Fire Confinement
- Flexibility for Mechanical Penetrations
- Flat Ceiling with Paintable Surface
- Acoustical Control and Separation
- Durable with a Long Service Life
- Heavy Load Carrying Capacity
- Reduced Capital Investment
- Reduced Construction Risk



The following table has been developed to compare similar construction systems for structural floors typically found in multi-family residential construction.



	Hollow-core	Double Tee	Post-Tensions Cast in place
Span to Depth Ratio	Excellent	Good	Excellent
Construction Speed	Excellent	Excellent	Poor
STC Ratings	Excellent	Good	Excellent
Shoring Required	No	No	Yes (Significant)
Immediate Safe Working Platform	Yes	Yes	No
Span Lengths	Up to 30 ft	Up to 62 ft	Up to 30 ft
Typical Use	Podium Slabs Residential Floors Hospitality	Parking Garages Office Buildings Warehouse	Podium Slabs Residential Floors Parking Garages Office Buildings
Fire Rating	2 Hour	2 Hour	2 Hour
Contractor Benefits	Reduced Risk Speed of Construction Design Assistance	Reduced Risk Speed of Construction Design Assistance	Self Performance

