BranchClad®
Case Study

Branch TECHNOLOGY

Mixed Use Highrise

BranchClad® rainscreen panels offered tremendous cost and time savings on a new tower in downtown Nashville, TN. Architectural precast concrete was originally specified for the opaque architectural elements on the building façade. BranchClad® panels were selected in lieu of the precast panels because of the lighter weight, insulation, customizable design, lower cost, and lower carbon footprint benefits for the project. BranchClad® enabled the owner and project team to have lower initial costs and lower lifetime costs for their development and complete the project considerably faster. Scope for this project included the entire exterior envelope of the tower, which consists of vertical pilasters, horizontal beam treatments, podium façade elements, and impact-resistant finishes.

Scope: 190,798 square feet

Estimated Values	BranchClad®	Architectural Precast Concrete	Savings with Branch	Improvement
Weight (lbs)	2,123,133	36,156,221	**34,033,088**	16X
Insulation	R45 avg	R0.9 avg		49X
Install Time (6-person crew) Critical Path Savings	59 days	245 days	**185 days**	3X
Skilled Labor & Crane Time	0	245 days	**245 days**	100%
Equipment Rental Savings	Swingstages $20,000	Tower crane $490,000	**$470,000**	24X
Concrete Embeds (10% rework)	0	10,044	**$401,768**	100%
Carbon Footprint & Waste	Small	Massive		
Slab Edge Load	155 #/lf (distributed)	1,190 #/lf 7,199 # (pointload)	**1,035 #/lf**	87%
Slab Edge Minimum Thickness	6" (estimated)	15.5"	**9.5"**	61%
Total Installed Cost	$19,972,063	$23,611,409	**$3,639,346**	15%
Typical Warranty	10 yr	1 yr	**9 yr**	9X