
Take your Augercast Game to the MAX

Winter 2021

What do many of today's stadiums and arenas have in common? They stand on ACIP Piles installed using Specrete's Water Retentive Grout Fluidifiers. Stadiums and arenas demand substantial pile design to support their massive structures. Quick, uninterrupted installation is a necessity to keep high profile projects on schedule. Soil types vary across the country and each site presents a different set of challenges. Intrusion-Aid MAX makes it possible to install deeper and wider piles, with full depth reinforcing cages, without interruption and in any soil type.

Rapid Installation

All eyes are on the construction of new stadiums and arenas. High cost and rigid production schedules increase the stakes. Avoiding delays is critical. It's not the time or place for pushing cages down or cutting off rebar. Redrilling a single pile can be a disaster. Including Intrusion-Aid MAX, eliminates the risk of these costly setbacks and keeps the project on schedule.

Deeper and Wider Piles

Advancements in drilling equipment have opened the door to larger piles that are perfectly suited for stadium foundations. But the wider and deeper grout columns create new challenges for contractors. Augercast grout must be fluid so reinforcing steel can be placed, but that means the principles of hydrostatic pressure need to be considered. The deeper the pile, the higher the pressure. When pressure is applied to grout, water can be squeezed out, especially in porous soil conditions. Intrusion-Aid MAX resists the forces of hydrostatic pressure to keep the mix water in the grout, so it stays fluid long enough to drop the reinforcing steel.



SoFi Stadium
LA Rams and Chargers, 2020



Allegiant Stadium
Las Vegas Raiders, 2020



Chase Center
Golden State Warriors, 2019



Audi Field,
DC United, 2018



Mercedes-Benz Stadium
Atlanta Falcons, 2017



Golden 1 Center
Sacramento Kings, 2016



Hard Rock Stadium Roof
Miami Dolphins, 2016



Levi's Stadium
San Francisco 49ers, 2014

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Summer 2020

As pile diameters widen, grout volume increases exponentially. That means more coordination of ready-mix trucks and a longer amount of time between grout and steel placement. Intrusion-Aid MAX makes wider piles possible, by increasing the window of time to drop the reinforcement.

Full depth cages

Anytime full depth cages are designed, water retention should be considered. Pressure is greatest at the bottom of the pile. As soon as grout is placed, it starts to lose water from the outside of the pile, at the grout-to-soil interface. By the time the cage is near the bottom, it's almost fully submerged in grout and has lost most of its downward momentum. This combination of challenges requires MAX's water retentive properties to keep the grout from drying out at the bottom of the pile.

Any Soil Conditions

Every city has its own unique characteristics. For deep foundation contractors, the local soil conditions are part of that identity. Whether its bay mud in San Francisco, dry sand in Las Vegas or high water table in Miami, Intrusion-Aid MAX is the solution.

Professional sports complexes demand professional construction. That's why Specrete's water retentive products are in so many of today's stadium and arena foundations. Contact a Specrete representative to discuss your upcoming bids and projects.

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