



Clark County Water Reclamation District, Henderson, Nevada

Clark County Water Reclamation District's project consists of two buildings with a total of 58 high performance, thermally efficient, insulated precast shear wall panels. These composite panels are produced with CarbonCast® C-grid® and 1.5 pound EPS insulation, creating a wall system with no solid zones or thermal breaks, and meeting the continuous insulation requirements for the project. The precast panels are 35 feet high, 13.4 feet wide, and 16 inches thick. Four inches of the wall panel thickness is EPS insulation, creating a steady state R-Value of 18.

The shear walls are produced with a unique commercial grade architectural mix, and the exterior features both acid etch and sand blast regions, for a multi-textured finish. With colors developed specifically for Clark County, and a form liner developed to create a characteristic band on the facade, the shear wall panels function both structurally and aesthetically. Clark County selected the CarbonCast® system due to the quality, durability, and the effective cost structure this system provides.

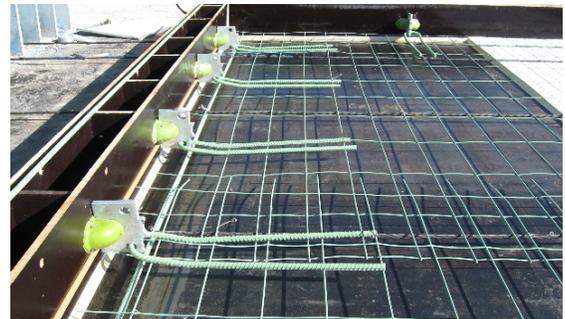
Project Facts:

Market Segment: Industrial
Building Type: Water Reclamation
Products Used: Composite panels, CarbonCast® C-grid®
Finishes Used: Acid etch and sandblast



Project Design Team:

Owner: Clark County Water Reclamation District
General Contractor: McCarthy Building Companies, Inc., Las Vegas, NV
Architect of Record: MWH, Denver, CO
Engineer of Record: MWH, Denver, CO



Company Information:

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EnCon Utah created insulated high performance precast shear walls with CarbonCast® C-grid® to meet Clark County's thermal efficiency requirements.



CarbonCast® architectural panels can be designed with infill insulation to reduce the weight of the enclosure system, as well as provide thermal efficiency and concrete mass on the interior of the structure.



Epoxy rebar reinforcement and stainless steel connections were used for panel installation.



CarbonCast® architectural panels are designed with edge to edge insulation to provide a complete thermal building wrap with no cold zones or thermal bridges.

