



### Central Concrete Low Carbon Leadership & Collaboration

| Year        | 2003                                | 2011                                  | 2011  | 2012   | 2018  | 2019   | 2020                                       | 2022  | 2023   |
|-------------|-------------------------------------|---------------------------------------|---|--|---|--|--|---|--|
| Icon        |                                     |                                       |   |  |   |  |  |   |  |
| Description | First to bring slag to SF Bay Area. | Mixes with 50-70% cement replacement. | Founding member of the Carbon Leadership Forum (CLF). | First company to produce EPDs for the construction industry. | First to install CarbonCure ready-mix system on west coast. | Largest consecutive pour (at the time) of a CarbonCure mix for a mat slab. | Acterra Business Environment Award winner. | First use of Portland limestone cement for recycled water projects. | Pilot demonstration of treating recycled water with direct air capture CO <sub>2</sub> with CarbonCure and Heirloom. |
| Logos       |                                     |                                       |   |  |   |  |  |   |  |

#### Public Collaboration

- Bay Area Low Carbon Code (adopted by Marin County): Contributed to efforts of development.
- **MITHUN** • Pilot project – 681 Florida
- Caltrans' Environmental Product Declaration (EPD) Implementation Project: Provided guidance for this project and was ready with a system in place to provide EPDs for any mix design for all Caltrans projects prior to the start of the project.
- City of San Francisco: Collaboration to test the use of recycled asphalt pavement (RAP) in concrete and provide input for their concrete specification with minimum recycled concrete aggregate (RCA) requirements.
- CALCIMA: Member and contributor. Participation through CALCIMA for developing DOT low carbon specifications, providing input regarding legislation, and offering guidance for infrastructure projects.






### PROLOGIS NEXUS San Leandro, CA






HSA Structural Engineers  
Whiting Turner  
Bradley Concrete



### 1345 Doolittle Drive, San Leandro, CA (12)



-  REUSE  
Over half of the existing concrete was incorporated in the design of the new structure
-  DESIGN OPTIMIZATION  
Type I Bekaert Dramix® 4D 80/60 BG steel fibers were used in the concrete mix, which reduced the slab thickness from 9 inches to 6 inches, while exceeding the industry standard capacity of 2,000 lbs pallets.
-  LOW CARBON MIX  
SCMs and Orca low-shrink, high-durability aggregate

