

BUILDING SMART. BUILDING FOR THE FUTURE.

Environmental Impact with ECOMAXci® Wall Solution.

PROJECT PROFILE

TWELVE BRIDGES HIGH SCHOOL - ECOMAXCI® WALL SOLUTION

ECOMAXci® Wall Solution eliminated the air barrier and gypsum, preventing the equivalent production of:

**15,000,000 Plastic Straws or
1,000,000 Plastic Bags and
100,000 lbs of Gypsum**

Sustainability and environmental impact estimates are based on materials per 40,000 sq. ft. of insulated coverage and modeling software (e.g. Athena).



PROJECT DESCRIPTION

The new Twelve Bridges High School in Lincoln, California includes a 5,000 sq. ft. admin building, a 71,000 sq. ft. student center, two 2-story classroom buildings totaling 41,000 sq. ft., and two 5,000 sq. ft. science buildings. A future second phase of the project will include a gymnasium, an aquatic center, and an additional two-story classroom building.

Construction on the Twelve Bridges project began back in 2004 but was unfortunately halted due to a nationwide economic crash. In 2014, the project was able to start up once again, but during that 10-year delay, portions of the job site became habitable for a species of endangered aquatic life in the area, which led to more delays and expensive environmental mitigation that compromised the original budget. HMC Architects and Flint Builders were given the difficult task of finding ways to build this high school more cost-efficiently.

One cost-saving feature implemented into the project was the use of Rmax ECOMAXci® Wall Solution. Coast Building Products, the insulation contractor, worked with their local Rmax representative to show the design and construction team that the ECOMAXci® System could help eliminate much of the exterior sheathing and full coverage weather-resistive barriers, as well as the accompanying labor. A huge cost savings over more traditional exterior assemblies. With the ECOMAXci® Wall Solution, Twelve Bridges High School has an NFPA 285 approved next-generation thermal, air, and weather-resistive barrier.

RMAX ECOMAXCI® WALL SOLUTION

ECOMAXci® Wall Solution was used in this application to optimize performance and provide a ready-made answer to fire, air and water, in addition to thermally efficient continuous insulation.



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TAKE ACTION.

Emissions being put into the atmosphere are causing significant and harmful effects on our communities, our health and our climate. One step in reducing harmful emissions is by building with energy efficient materials.

In addition to material and labor savings, ECOMAXci® Wall Solution eliminated approximately 50% of the negative environmental impact on this project by removing the air barrier and exterior gypsum.

Just Think - How much more can be saved by using ECOMAXci® Wall Solution on every building?

ENVIRONMENTAL impact categories*

74% Less Ozone Depletion Potential

64% Less Eutrophication Potential

38% Less Acidification Potential

33% Less Smog Potential

28% Less Non-Renewable Energy

26% Less Global Warming Potential

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WHY RMAX ECOMAXCI® WALL SOLUTION

ECOMAXci® Wall Solution is an NFPA 285 approved continuous air and water barrier and provides continuous insulation eliminating thermal bridging through the studs. With reinforced aluminum foil facers, ECOMAXci® FR Air Barrier offers enhanced durability, dimensional stability and greater radiant heat protection.

ARCHITECT

HMC Architects

GENERAL CONTRACTOR

Flint Builders
Roseville, California

INSTALLER

TopBuild/ Coast Building Products, Sacramento

DISTRIBUTOR

Service Partners Sacramento

Location: Lincoln, California

Project Size: 83,000 sq. ft.

Insulation: 1.5" ECOMAXci® FR Air Barrier

Accessories: R-SEAL 3000 and R-SEAL 6000

Project Timeline: Completion by Fall 2021



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