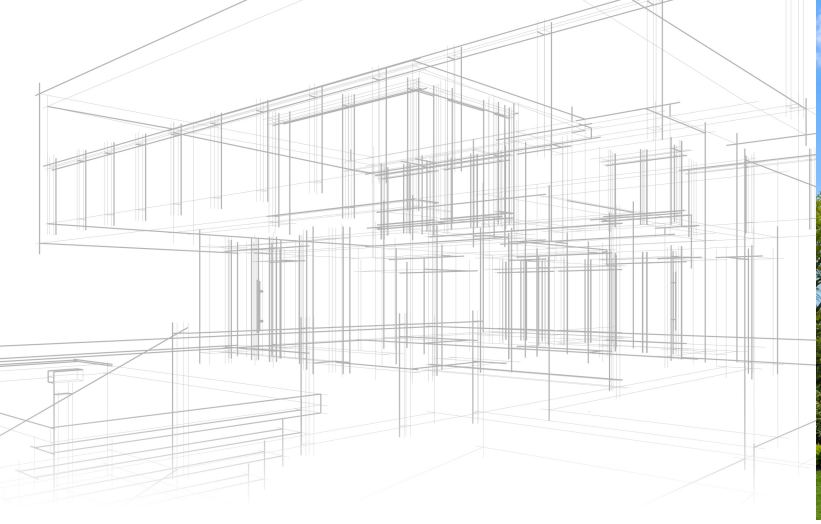




ReVireo®

Colfax Road

Overview

Colfax Road is a high-performance single-family home in Skillman, New Jersey, designed by Manes Architecture and Interiors in Brooklyn. The home was designed and constructed to significantly exceed current energy efficiency standards while achieving multiple green building certifications, including LEED Platinum. ReVireo provided comprehensive consulting and verification services throughout design and construction to support both code compliance and ambitious certification targets.

During the design phase, ReVireo conducted energy modeling to optimize building efficiency and develop strategies to achieve ENERGY STAR, DOE Efficient New Homes, and LEED Platinum certifications. Throughout construction, ReVireo performed on-site quality assurance inspections and diagnostic testing to verify that all energy efficiency measures were properly installed and met program standards. As a result, the completed home is projected to perform more than 35% better than a home built to the 2024 International Energy Conservation Code and deliver approximately $9,440 in annual energy cost savings compared to the average U.S. home.

A key contributor to the home's performance is its highly durable and efficient building envelope, constructed using Bensonwood modular panels that provide exceptional thermal performance, reduce on-site construction time, and have airtightness that exceeds current code requirements by 70%. The home also features a 34 kWdc solar array that offsets more than 30% of its annual cooling costs.

Client

Homeowner

Building Type

Single Family

Location

Skillman, New Jersey

Services

Energy Code, ENERGY STAR, DOE Efficient New Homes, Indoor airPLUS, LEED, Local Incentives

Overview (continued)



In addition, the Client prioritized low-emitting materials throughout the project to promote healthy indoor air quality and sought to reduce the impact of construction on the environment. To achieve these objectives, ReVireo guided the project in design and construction through Indoor airPLUS and LEED Platinum certification processes. This included reviewing plans, managing documentation, conducting field verification, and coordinating sustainability strategies related to indoor air quality, materials, and environmental impact. The project's construction waste was responsibly managed by Second Chance of Baltimore, Maryland, a nonprofit organization dedicated to diverting reusable materials from landfills and maximizing recycling and reuse.

In addition, ReVireo managed the New Jersey Clean Energy Program (NJCEP) rebate process, preparing and coordinating required documentation for submission. The high-performance certifications qualified the home for over $12,000 in rebates from NJCEP.

Colfax Road demonstrates how advanced building science, responsible material management, and rigorous verification can deliver exceptional energy efficiency, homeowner comfort, and long-term environmental benefits.