



ENERGY EFFICIENT

- 1 Cool membrane roof (bright white) reflects heat away from the building to reduce energy requirements and increase thermal comfort.
- 2 Low-E windows manage the solar impacts on the interior by reflecting heat away from the building in the summer while insulating the building year round.
- 3 Extended roof overhangs provide shading and block out high angle sun to reduce glare while enabling indirect light to reduce the requirements for artificial lighting.
- 4 High levels of roof (R-30) and wall insulation (R-19) improve thermal comfort, reduce energy use, and help keep occupants comfortable.

HIGH PERFORMANCE

- 5 Low to no-VOC interior materials like paint, flooring and adhesives protect health and performance of students and teachers.
- 6 The high-performance ceiling tiles reduce reverberation time, improving acoustics.
- 7 Exterior rainscreen system enhances moisture resistance of the envelope, improves resistance to mold and increases the insulation performance of the walls.
- 8 Clerestory windows allow abundant indirect natural daylight to enter the building, reducing the need for electric lighting while enhancing user performance.
- 9 Operable windows and roof exhaust fans form the natural cooling and ventilation strategy. Air is drawn in through lower windows and exhausted through higher windows and fans, creating a stack effect.
- 10 Raised access floor provides building and systems flexibility and reduces operational and churn costs.
- 11 Underfloor air distribution system efficiently transfers heat from the four furnaces to students and staff.



7500 gsf

ENVIRONMENTALLY RESPONSIBLE

- 12 Reclaimed and newly milled redwood siding from an old railroad tunnel in Marin, CA provides a beautiful, unique finish while saving natural resources and protecting existing forests.
- 13 EcoClad siding is made from recycled paper and bamboo fibers. The pieces of paper are dipped in resin and heated and pressed together to form a rock-hard surface.
- 14 Rainwater capture system funnels rainwater from the roof into a large cistern. The water is filtered and then supplied to the toilets and urinals, reducing the building's dependence on the municipal water supply.
- 15 Cabinetry is made from FSC Certified maple and wheat board – wheat straw that has been cut, dried, pressed and bound together to form sheets for cabinets or counters.
- 16 Total building materials contain over 35% recycled content including the structural steel frame, light gage steel wall and roof panels, ceiling tiles and carpet tiles.
- 17 Individual carpet squares can be removed, cleaned or replaced as needed. The manufacturer reclaims & recycles old carpet squares to make new ones. The finished carpet has a total of 68% recycled content.

SMART TECHNOLOGY

- 18 Predictive modeling enabled FROG to optimize the building orientation and design to reduce energy needs, allow for pre-heating and promote daylighting while controlling for glare. The result is a potential energy demand reduction of as much as 50% as compared to baseline without sacrifice to comfort.
- 19 Daylight and occupancy sensors regulate use of the electric lights to optimize lighting levels and reduce energy use.

CRISSY FIELD CENTER

Youth - Leadership - Environment



project frog