



Collaborative for High Performance Schools (CHPS) Designed Scorecard

Based on the 2008 Edition Relocatable Classroom Criteria

Name (or model #) of Relocatable Model:

Expected Date of Marketability: 4/1/10	Current Design / Construction Phase:	
Climate Zone(s): 1 - 16	Website: http://www.silver-creek.net/	
Manufacturer: Silver Creek Industries	City / State: Perris, CA	Zip: 92571
Primary Contact: Ryan McIntosh	Phone: 951-943-5393	
Student Capacity: 48	E-mail: rmcintosh@silver-creek.net	
Square Feet: 960 SF		

Verification

Is this the final CHPS scorecard? **YES**

Manufacturer's Representative (Signature)

Project Architect (Signature)

Name, Title, Date (Please print) Ryan McIntosh, Project Manager, 3/12/10

Name, Title, Date (Please print)

CHPS SECTION	CREDIT NUMBER	TITLE	POSSIBLE POINTS	SUMMARY	TARGET	POINTS EARNED	TEAM MEMBER(S) RESPONSIBLE	FOR SELF-CERTIFICATION, PROVIDE NARRATIVE CALCULATIONS, DOCUMENT PLAN REFERENCE HERE (Use Behavior Change as Narrative)
--------------	---------------	-------	-----------------	---------	--------	---------------	----------------------------	---

LEADERSHIP, EDUCATION AND INNOVATION (1 prerequisite; 6 possible points)

2. Schools as Learning Tools (0)	LEI2.0	Education Display	Req	Provide a permanent educational display in prominent classroom location.	X	X		DISPLAY TO BE PROVIDED BY DISTRICT, DATA FOR DISPLAY TO BE PROVIDED BY SILVER CREEK.
3. Innovation (6)	LEI3.1	Innovation	1-2	Implement new technologies or strategies that further high performance goals.				
	LEI3.2	Design for Adaptability, Durability and Disassembly	2-4	Provide a plan and implement strategies that promote material conservation and ease of deconstruction.				

SUSTAINABLE SITES (3 possible points)

1. Site Selection (1)	SS1.1	Environmentally Sensitive Land and Non-Permanent Foundations	1	Do not use permanent foundations. Chose removable wood or metal footings that do not disturb site.				
4. Outdoor Surfaces & Spaces (1)	SS4.2	Reduce Heat Islands - Cool Roofs	1	Install cool or green roof.	1			45 MIL TPO ROOFING SYSTEM - SRI 102
5 Outdoor Lighting (1)	SS5.1	Light Pollution Reduction	1	Minimize outdoor illumination.	1			EXTERIOR LIGHTS ONLY PROVIDED AS REQUIRED. LIGHTS INCLUDE AUTOMATIC CONTROL SYSTEM.

ENERGY (2 prerequisites; 26 possible points; minimum 2 points required)

1. Energy Efficiency (20)	EE1.0	Minimum Energy Performance	Req	Design building to exceed Title 24-2008 by 15%.	X	X		
	EE1.1	Superior Energy Performance	1-15	16% to 44% reduction in total net energy use from Title 24-2008 baseline.	3			DESIGN = AVERAGE OF 23.8% BETTER THAN TITLE 24 BASELINE
	EE1.2	Energy Conservation Interlocks	1	Install interlocks to turn off heating and cooling equipment if doors and windows are open.	1			INTERLOCKS PROVIDED AT ALL EXTERIOR WINDOWS AND DOORS
	EE1.3	Natural Ventilation	3-4	Comply with Title 24, Part 6, 121b for assembly spaces and/or 90% of typical classrooms.				
	EE1.4	Energy Management Systems	1-2	Install Energy Management System and provide training and manuals for maintenance personnel. Additional point for plug load.				
2. Alternate Energy Sources (5)	EE2.1	On-site Renewable Energy	1-5	Install web-based performance monitoring system and provide 1-90% of the building's TDV energy use through on-site renewable systems.				
3. Commissioning & Training (1)	EE3.0	Fundamental Commissioning	Req	Third party or district verification of building systems & training.	X	X		COMMISSIONING PER QUALITY CONTROL AND TESTING MEASURES MANUAL
	EE3.1	Enhanced Commissioning	1	Additional third party or district verification of building systems, training and best practices.				

CLIMATE (5 possible points)

2. Greenhouse Gas Emission Reduction (5)	CL2.1	Grid Neutral	2	Create a relocatable that produces at least as much electricity as it uses in a year and uses renewable energy strategies.				
	CL2.2	Zero Net Energy	5	Create a relocatable that produces at least as much electricity as it uses in a year (without using fossil fuel based energy sources produced off-site) and uses renewable energy strategies.				

MATERIALS AND WASTE MANAGEMENT (1 prerequisite; 12 possible points)							
2. Construction Waste Management (1)	ME2.0	Minimum Construction Site Waste Management	Req	Recycle, compost and/or salvage at least 50% of non-hazardous construction and demolition debris.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NO LESS THAN 50% OF WASTE TO BE SALVAGED, REUSED OR RECYCLED
	ME2.1	Construction Site Waste Management	1	Recycle, compost and/or salvage at least 75% or 90% of non-hazardous construction and demolition debris.			
4. Sustainable Materials (5)	ME4.1	Recycled Content	1-2	Follow prescriptive or performance approach.	1		NO LESS THAN FOUR PRODUCTS PER TABLE 4A ARE INSTALLED
	ME4.2	Rapidly Renewable and Organically Grown Materials	1-2	2.5% of materials are rapidly renewable or specify rapidly renewables for 50% of one of the listed major interior finishes or structural materials. Extra point for using organic materials.			
	ME4.3	Certified Wood	1	50% of wood must be certified	1		NO LESS THAN 50% OF BUILDING LUMBER IS CERTIFIED IN ACCORDANCE WITH FSC REQUIREMENTS
5. Sustainable Materials - Multi Attribute (2)	ME5.1	Environmentally Preferable Products	1-2	Use this credit instead of 4.1-4.4. Interior finishes must meet EQ2.2. Earn a one-half point for each certified EPP Product.			
6. Sustainable Materials - LCIA (4)	ME6.1	Environmental Performance Reporting	1-4	Choose products that have undergone a life cycle impact assessment by national standards.			
INDOOR ENVIRONMENTAL QUALITY (4 prerequisites; 20 possible points)							
1. Lighting and Daylighting (6)	EQ1.1	Daylighting	1-4	Meet minimum requirements and choose one of three options.	4		100% OF CLASSROOMS ARE DAYLIT WITH AN AVERAGE ILLUMINATION IN EXCESS OF 35 fc
	EQ1.2	View Windows	1	Direct line of site glazing for 90% of classrooms, libraries and administration areas and provide view glazing equal to or greater than 7% of the floor area.	1		100% OF CLASSROOMS CONTAIN VIEW GLAZING IN EXCESS OF 7% OF FLOOR AREA
	EQ1.3	Electric Lighting	1	Provide high quality and flexible classroom lighting.	1		DIRECT/INDIRECT MULTI-SCENE LIGHT FIXTURES WITH CONTROL STATION, DAY LIGHT SENSORS, OCCUPANCY SENSORS, AV MODE, AND 16' WALL WASH FIXTURE AT TEACHING WALL
2. Indoor Air Quality and Thermal Comfort (11)	EQ2.0A	Minimum HVAC and Construction IEQ Requirements	Req	Establish minimum standards for indoor air quality that includes construction ventilation, building flush-out, outside air ventilation and HVAC basic requirements among other things.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	HVAC SYSTEM PER TITLE 24, PART 6 AND ASHRAE 62.1-2007. ALL WORK PER SILVER CREEK IEQ PLAN TO ENSURE COMPLIANCE WITH ASHRAE 62.1-2007.
	EQ2.0B	ASHRAE 55 Thermal Comfort Code Compliance and Moisture Control	Req	Comply with ASHRAE 55-2007 thermal comfort standard and employ moisture control measures to prevent mold growth.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	INTERIOR ENVIRONMENT IN COMPLIANCE WITH ASHRAE 55-2004. 5'-0" OVERHANGS AT ENTRY DOORS. FLOORING WITH MOISTURE BARRIER BACKING.
	EQ2.0C	Minimum Filtration	Req	Use HVAC with MERV 8 or greater rated filters through the HVAC system.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ALL MECHANICAL UNITS RECEIVE MERV 8 FILTERS AND PRESSURE DROP GAUGES.
	EQ2.1	Enhanced Filtration	1-2	Use HVAC with minimum MERV 11 or 13 rated filters through the HVAC system.			
	EQ2.2	Low-Emitting Materials	1-4	Earn one-half point for each category of low-emitting products used in all classrooms and staff work	4		LOW AND/OR NO VOC COMPLIANT ADHESIVES, SEALANTS, PAINT, FLOORING & CEILING
	EQ2.3	Ducted Returns	1	Install ducted HVAC returns.			
	EQ2.4	Thermal Displacement Ventilation	2	Use thermal displacement ventilation			
3. Acoustics (3)	EQ2.5	Controllability of Systems	1	Provide operable windows, dedicated outside air ventilation system and/or separate controls for each classroom.	1		EACH CLASSROOM CONTAINS 2 OPERABLE WINDOWS AND INDIVIDUAL TEMPERATURE AND VENTILATION CONTROLS.
	EQ2.6	Chemical and Pollutant Source Control	1	Control dust, segregate pollutant sources and local exhaust in kitchens. Install walk-off mats.			
	EQ3.0	Minimum Acoustical Performance	Req	Classrooms must have a maximum (unoccupied) noise level of 45 dBA LAeq, with maximum (unoccupied) reverberation times of 0.6 sec.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USE HVAC UNIT WITH AN INDOOR RATED dBA OF LESS THAN 45.
	EQ3.1	Improved Acoustical Performance	1 or 3	Classrooms must have a maximum (unoccupied) noise level of 40 or 35 dBA LAeq, with maximum (unoccupied) reverberation times of 0.6 sec.			
TOTAL (Minimum points required for CHPS Relocatable is 18 of possible 70)					19	0	

** The summary should not be used to determine requirements for a specific credit or prerequisite. Refer to the CHPS Best Practices Manual, Volume III, Criteria available at www.CHPS.net for credit and prerequisite specific requirements.