




Projects library of the specialized group for construction

PUBLIC BUILDINGS

Domain	Education (project in progress)		
Project name	Construction of the school of Berquin, Miragoane A project of the PARIS (Programme d'Appui à la Reconstruction des Infrastructures Scolaires)		
Country	Haiti		
Region/town	Miragoane		
Area	Peri-urban		
GIS data (WGS 84)	18° 25'50.94"N 73° 3'41.30"O		
Project type	New construction		
Typology	Primary school		
Approach	Contracted construction		
Beneficiaries	750 children		
Climate	Hot, humid		
Special constraint	Earthquake / hurricane		
start / end of project	2013-2014		
Country GNP	820 USD/cap		

Partners

Organization (donor)	SDC, Lichtenstein
IO/NGO partners	-
GO partners	MoE

Context to project

Initial Situation	Construction of a new school compound to increase access to public Education in the town of Miragoane. This is the first school entirely based on the final school models elaborated by SDC with the MoE.
Goals, Beneficiaries	Children of Miragoane.
Implementations/Results	Construction launched in January 2013 and opening planned in spring 2014.

Reference data (comparative)

Land plot	Ca. 8'000 m2	Number of blocks	2
Classes per blocks	6	Number of units	12 (inc. library, computer & teacher room, administration)
Children / unit (classes)	40	Total beneficiaries	750 children (capacity)
Latrines	Toilet (m/f, adult, disable) with septic tank	Other infrastructure	2 kindergarten Kitchen, refectory, solar pump and water tanks, guard room, deposits, fencing.
Ground floor (incl. walls)	700 m2 (cov. area)	Floor (incl. walls)	1250 m2 (covered area)
Total surface	1300 m2 (cov. area)	Surface / beneficiary	1.75 m2 / beneficiary
Volume (outside dim.)	Ca. 4'000 m3	Volume / beneficiary	5.3 m3/ beneficiary
Heated surface	0 m2	Heated surface/ ben.	n/a
Cost of complex	900'000 USD	cost/beneficiary	1'200 USD / children (seat)
Total cost	900'000 USD	Self help (ben.)	n/a



Approach to results

Initial Situation	The Berquin school is the third school to be rebuilt in the frame of the post-earthquake school reconstruction program of SDC in Haiti. The Berquin school is a new construction aimed to relocate an old damaged school outside the congested town of Miragoane, in a safer and adequate location.
Approach	Following the construction of the two first pilot schools in Dessources and Petit-Goave (see datasheets), SDC has revised the school model for 2 storey buildings in Concrete. The Berquin school and the EFACAP of Chalon (see datasheet) are the two first schools built according to these new revised models.
Problems/Constraints	<i>To be completed after completion</i>
Lessons learned	<i>To be completed after completion</i>
Evaluation	<i>To be completed after completion</i>

Legal framework

Political attachment

Type of ownership Public

Construction information

cost repartition

Construction information			cost repartition	
Constructions (main buildings)	Foundations	Concrete		
	Walls or columns	Confined masonry in cement blocks		
	Facade	Exposed concrete panels		
	Roof	Metal structure		
	Earthquake protection	PGA 0.84G		
	Floor surface	Concrete (smoothed after casting)	580'000	64%
	Walls:	Cement blocks		
	Doors	Open metal grids		
	Windows	Fixed aluminum		
	Ceiling	no		
	Thermo insulation	Isolated corrugated sheet		
	Roof	Corrugated sheet (type aluzine)		
	Watsan	Water	Borehole, solar pump, water tanks	
Toilets		Flush toilet	150'000	16%
Waste water		Septic tank		
Rain water		No RW collection		
Equipment	heating system	No		
	Electricity connection	Connected to local network		
	Telephone connection	No	50'000	6%
	Cooking facilities	Yes		
	Furniture	Yes (including computer and dormitory)		
Landscaping	Enclosure wall	Cement blocks		
	Playground / access	Cement cobblestone	120'000	14%
	Plantation	Yes		
Total			900'000	100%

Urban planning

Distance to : villages 0 m (In town)
Public transport 50 m

For further information

Involved SHA construction group collaborators:	Christian Ubertini, François Poffet, Oliver Ruefenacht, Peter Hilty, Jill Schmidheiny
Other involved SHA consultants	-
Author / Contact:	Christian Ubertini / cubertini@bluewin.ch
Recommended Institutions:	-
Recommended partners:	-



Humanitarian Aid construction group

Recommended books/reports:	Daniel Schwitter, SKAT, aug-sept. 2012 Marina Marinov, FG Bau, 10 july 2012. Werk, Bauen + Wohnen, November 2012 Christian Ubertini, "PARIS, Bilan fin de phase 1", may 2013.
Relevant other projects (links):	http://picasaweb.google.com/ddchaiti



HAITI : THE BERQUIN SCHOOL IN MIRAGOANE (2013-2014)

