



Imperial Lifetime Homes

The Solar Powered Lifetime Community Developer

First of its kind in the country





COURTESY OF: FT/IFC TRANSFORMATIONAL BUSINESS AWARDS

Solar Powered Home Buyers Electric Savings (in Peso)

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Mar to May



Jun to Dec



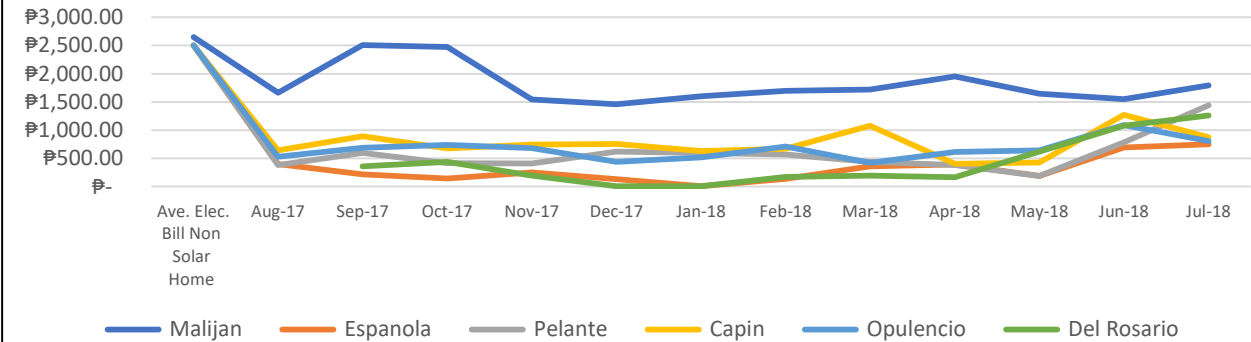
With water heater usage

Legend:
A – Aircon
WH – Water Heater
HB – Home Business

Actual Electric Bill with Solar

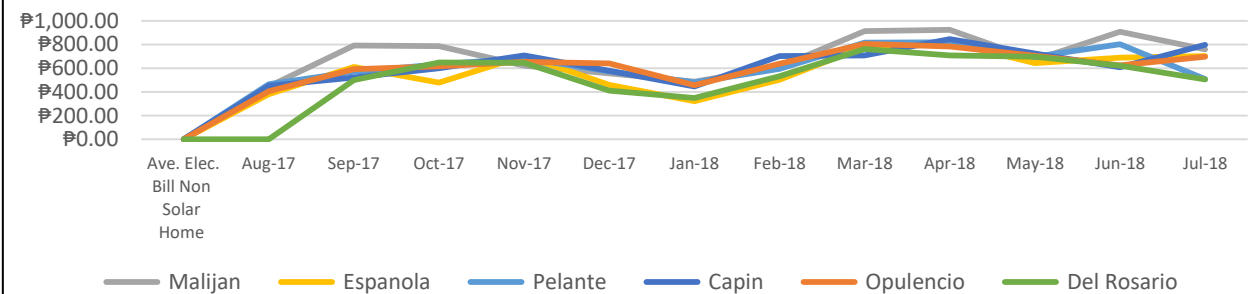
		Ave. Elec. Bill Non Solar Home	Actual Electric Bill with Solar												
			Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	
Malijan	A WH	₱ 2,650.00	₱ 1,660.47	₱ 2,506.06	₱ 2,470.65	₱ 1,545.25	₱ 1,457.30	₱ 1,598.36	₱ 1,698.20	₱ 1,720.89	₱ 1,953.98	₱ 1,645.56	₱ 1,548.96	₱ 1,793.20	
Espanola	A	₱ 2,500.00	₱ 399.96	₱ 217.56	₱ 145.46	₱ 253.51	₱ 130.67	₱ 8.58	₱ 138.81	₱ 356.89	₱ 390.42	₱ 186.76	₱ 695.90	₱ 749.46	
Pelante	A HB	₱ 2,500.00	₱ 383.91	₱ 594.80	₱ 415.49	₱ 410.96	₱ 619.23	₱ 597.65	₱ 566.61	₱ 439.94	₱ 379.88	₱ 186.76	₱ 781.53	₱ 1,444.37	
Capin	A HB	₱ 2,500.00	₱ 641.82	₱ 892.04	₱ 678.57	₱ 747.28	₱ 758.43	₱ 633.84	₱ 673.35	₱ 1,081.05	₱ 406.27	₱ 427.96	₱ 1,272.23	₱ 873.00	
Opulencio	None	₱ 2,500.00	₱ 531.88	₱ 685.89	₱ 739.92	₱ 682.25	₱ 437.68	₱ 515.07	₱ 708.99	₱ 419.72	₱ 611.60	₱ 645.30	₱ 1,087.93	₱ 806.05	
Del Rosario	A	₱ 2,500.00	₱ 357.06	₱ 439.72	₱ 194.41	₱ 8.76	₱ 9.84	₱ 172.96	₱ 197.00	₱ 168.73	₱ 621.37	₱ 1,078.16	₱ 1,263.10		

Actual Electric Bill with Solar



Actual Electricity Savings from Solar Solution

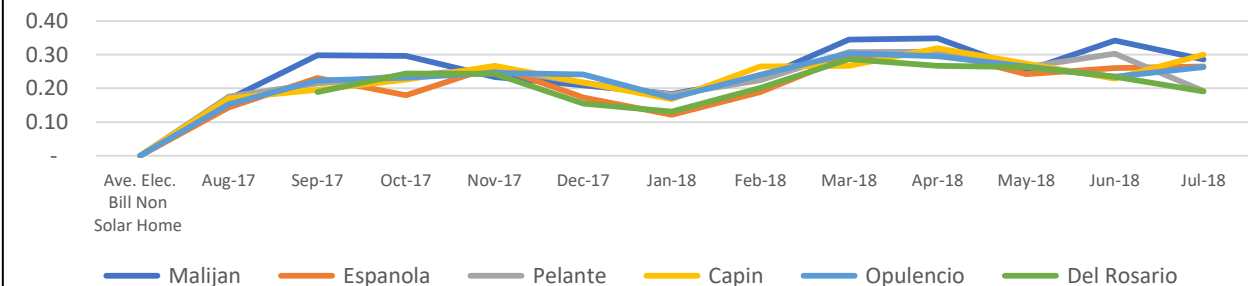
		Ave. Elec. Bill Non Solar Home	Actual Electricity Savings from Solar Solution												
			Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	
Malijan	-	₱444.46	₱791.03	₱786.80	₱619.92	₱554.73	₱486.11	₱610.31	₱912.90	₱923.85	₱669.69	₱906.41	₱758.01		
Espanola	-	₱379.51	₱611.15	₱476.25	₱704.32	₱457.50	₱321.93	₱500.63	₱782.66	₱818.59	₱641.87	₱688.70	₱702.61		
Pelante	-	₱465.16	₱568.51	₱632.78	₱686.03	₱572.76	₱481.49	₱594.08	₱816.65	₱818.27	₱697.59	₱802.76	₱507.50		
Capin	-	₱450.85	₱519.83	₱600.10	₱707.55	₱576.96	₱445.30	₱702.72	₱707.54	₱846.18	₱724.71	₱606.34	₱795.37		
Opulencio	-	₱404.19	₱592.14	₱615.55	₱653.30	₱639.59	₱455.71	₱637.71	₱804.95	₱782.03	₱703.45	₱622.48	₱697.02		
Del Rosario	-	₱500.33	₱646.95	₱644.14	₱411.19	₱346.83	₱532.77	₱761.67	₱708.64	₱696.42	₱621.74	₱505.17			



Savings Percentage from Solar Solution

		Ave. Elec. Bill Non Solar Home	Savings Percentage from Solar Solution													Total Average
			Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18		
Malijan	-		17%	30%	30%	23%	21%	18%	23%	34%	35%	25%	34%	29%	27%	
Espanola	-		14%	23%	18%	27%	17%	12%	19%	30%	31%	24%	26%	27%	22%	
Pelante	-		18%	21%	24%	26%	22%	18%	22%	31%	31%	26%	30%	19%	24%	
Capin	-		17%	20%	23%	27%	22%	17%	27%	27%	32%	27%	23%	30%	24%	
Opulencio	-		15%	22%	23%	25%	24%	17%	24%	30%	30%	27%	23%	26%	24%	
Del Rosario	-		19%	24%	24%	16%	13%	20%	29%	27%	26%	23%	19%	22%		

Savings Percentage from Solar Solution



Electricity Savings



Additional Household Income



Electricity

Income



Ms. Jocelyn Lim

Via Verde Homeowner/Entrepreneur



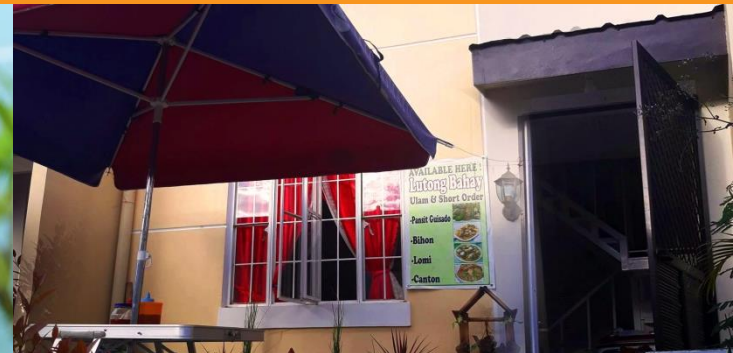
Ice Candy Business

Ave net income/ month (net income x 30) = Php 3,750



Ms. Imelda Capin

Via Verde Homeowner/Entrepreneur



Home-cooked Meals Business

Ave net income/ month (net income x 30) = Php 9,000

Ave Savings from electricity = Php 609.00



Ms. Aileen Pelante

Via Verde Homeowner/Entrepreneur



Neighborhood Store Business

Ave net income/ month (net income x 30) = Php 6,000

Ave Savings from electricity = Php 594.00

INNOVATION
Made by Denmark



SOLAR POWER
enfinity
IMPERIAL SOLAR SOLUTIONS INC.

100
YEARS
MATERIAL
LIFESPAN
ON BUILDING PANEL SYSTEM

Concrete by
connovate
PHILIPPINES INCORPORATED

 **Imperial Lifetime Homes**
The 2nd Generation Solar Powered Community

The logo features a stylized white house icon with a gabled roof and a window, positioned to the left of the text.

Imperial Lifetime Homes



Build with **connovate** PHILIPPINES INCORPORATED High Performance Concrete Prefab Panels

Connovate Projects in Denmark

Fire Testing

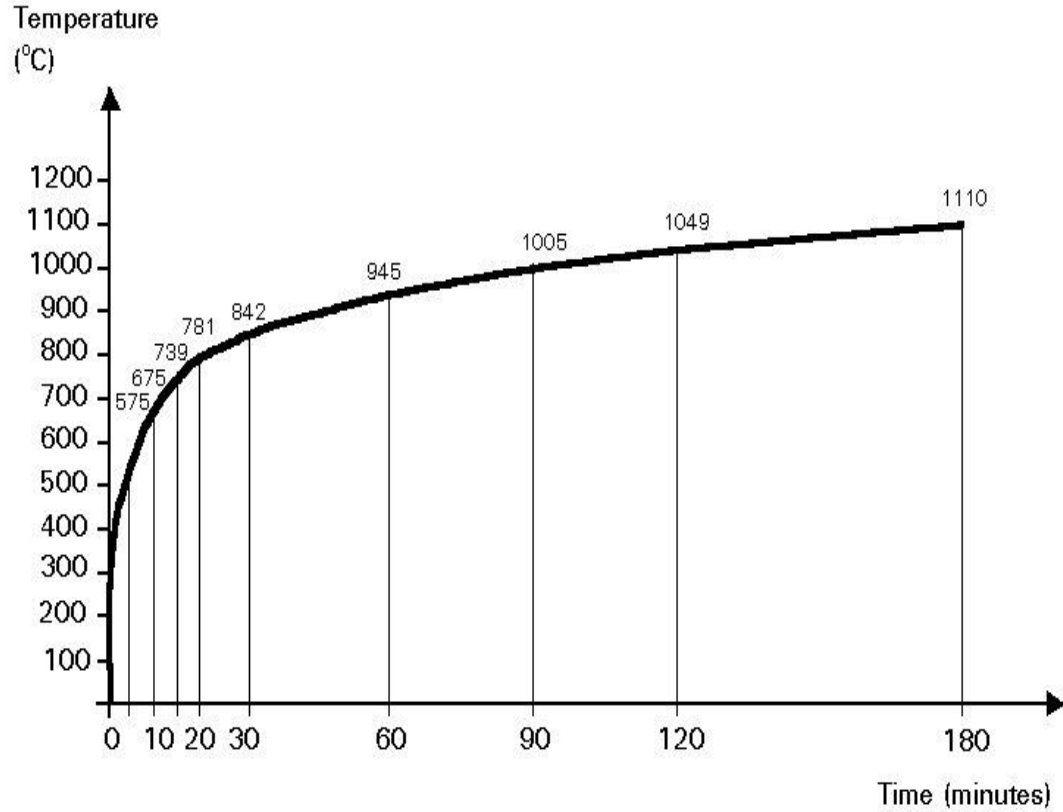


Figure 1 ISO standard fire curve



Certificates and Appraisals

boi BOARD OF INVESTMENTS
 Republic of the Philippines
 BOARD OF INVESTMENTS
 Makati City

dti
 DEPARTMENT OF TRADE AND TOURISM
 PHILIPPINES

CERTIFICATE OF REGISTRATION

No. 2018-034

TO ALL WHOM IT MAY CONCERN:

This is to certify that the Board of Investments has duly registered

CONNOVATE PHILIPPINES, INC.
 New Producer of Housing Component
 (High-Performance Pre-Cast Wall Panel)

in accordance with the provisions of the Omnibus Investments Code of 1987, as amended, subject to the representations and commitments set forth in its application for registration, the provisions of the above law, the rules and regulations of the Board of Investments and the terms and conditions herein prescribed.

In testimony whereof the seal of the Board of Investments and the signature of its Chairman / Vice - Chairman is hereunto affixed. Given at Makati City, Philippines, this 26th day of February 2018

Management Committee Res. No. 04-19, S'2018
 Board Resolution No. 04-05, S'2018

DR. CECILINO RODOLFO
 Undersecretary and BOI Managing Head

Attested:
Am. MARJORIE D. RAMOS-SAMANIEGO
 Board Secretary

Pag-IBIG FUND
 (Home Development Mutual Fund)

July 17, 2018

IMPERIAL HOMES CORPORATION
 Unit 1201-1202 Alabang Business Tower
 Acacia Avenue, Madrigal Business Park
 Ayala Alabang, Muntinlupa City

Attention : **ENGR. RAMIR F. PADILLA**
 Vice President
 Technical and Planning

Subject : **PRELIMINARY APPRAISAL (HOUSE) AND UPDATED (LOT) APPRAISAL OF VIA VERDE AND THE VENETTO HEIGHTS**

Dear Engr. Padilla:

This refers to your request on the abovementioned projects located at Bigy, San Vicente, Ocu, Turrubá, Datangao. I here are the appraised values:

A. LOT APPRAISED VALUE: Php 5,200.00 per square meter

B. HOUSE VALUE:

HOUSE MODEL	TYPE	FLOOR AREA (in square meter)	APPRAISED VALUE
TIARA CONNOVATE	TOWNHOUSE Regular Unit	36.00	₱ 1,305,300.00
TIARA CONNOVATE	TOWNHOUSE End Unit with Firewall	36.00	₱ 1,344,900.00

Relative to this, the following lacking technical requirements must be submitted prior to delivery of housing loan folders:

- Building plans duly approved by the Building Official for Connovate model, specifications and bill of materials
- Building permit duly approved by the Building Official for Connovate model.

The appraisal values are subject to verification and final inspection prior to the issuance of Confirmation of Appraisal (CA) by HDMF. Any deviation from the specifications and plans noticed during inspection shall be subject to cost adjustment.

Calatagan Housing Hub
 High Rise Business Center, National Highway, Bigy, Hilang, Calatagan City
 Email address: pagibig@imperialhomescorp.com

Republic of the Philippines
 Office of the President
HOUSING AND URBAN DEVELOPMENT COORDINATING COUNCIL
 15th Floor, BDO Plaza, Pasco de Roxas, City of Makati

THE ACCREDITATION OF INNOVATIVE TECHNOLOGIES FOR HOUSING (AITECH) COMMITTEE

Created pursuant to the provision of the Memorandum of Agreement signed on 13 October 1994 hereby grants this

ACCREDITATION CERTIFICATE No. 2018 - 001

Classified and introduced by the requesting company/proponent as:

CONNOVATE PRE-CAST WALL PANEL

In favor of **CONNOVATE PHILIPPINES, INC.**
 with business address at **1201 Alabang Business Tower, Acacia Avenue, Madrigal Business Park, Alabang, Muntinlupa City**

This Certificate is limited to the utilization of the technology for one to two-story structures only. The Certificate of Accreditation shall take effect on the date of issue and shall continue to be valid for a period of one (1) year subject to renewal unless otherwise revised or cancelled due to alteration or non-compliance by the proponent of the accredited technology with the submitted specifications. (The AITECH shall not be liable for any violation of intellectual property laws.)

IN TESTIMONY THEREOF, I have hereunto signed this certificate and issued the same this 27th day of February 2018 in Quezon City, Philippines.

EDUARDO D. DEL ROSARIO, CHAIRPERSON

HAZ-META **DANAK** **PELCON**

Pelcon Materials & Testing ApS
 Industrieparken 22B
 DK-2750 Ballerup, Denmark
 +45 39 58 50 00
pelcon@pelcon.dk
www.pelcon.dk
 CVR nr. 2757 0387

Test Report

Connovate ApS
 Jueltupparken 23
 9530 Sløvring
 Att.: Kaj Jørgensen

Ballerup, January 19th, 2017

Investigation: **Compressive strength**

Method: DS/EN 12390-3+AC:2012

Materials: 6 grout cylinders Ø100 mm (Received January 3rd, 2017)

Sample no.: 4-4/8, 5-4/8 and 6-4/8, cast August 4th, 2016 (Client data)
 Holcim Type 1P, 4-8/8, 5-8/8 and 6-8/8, cast August 8th, 2016 (Client data)

Sample location: -

Case no.: 17-006

Period: The testing was carried out January 16th - 17th, 2017

Results: The results are reported on pages 2-3.

Conditions: The testing is carried out in accordance with the conditions outlined by DANAK (The Danish Accreditation). The testing is only valid for the tested material. The test report may only be extracted, if the extract is approved by the laboratory.

Storage: Unless otherwise agreed upon with the client, the samples will be disposed after testing.

Pelcon Materials & Testing ApS

Peter Laugesen
 Managing Director, M.Sc.

Christian Gottlieb
 Civil Engineer, M.Sc.

PELCON

Compressive strength (DS/EN 12390-3+AC:2012)

Conducted by: LO Case no. 17-006

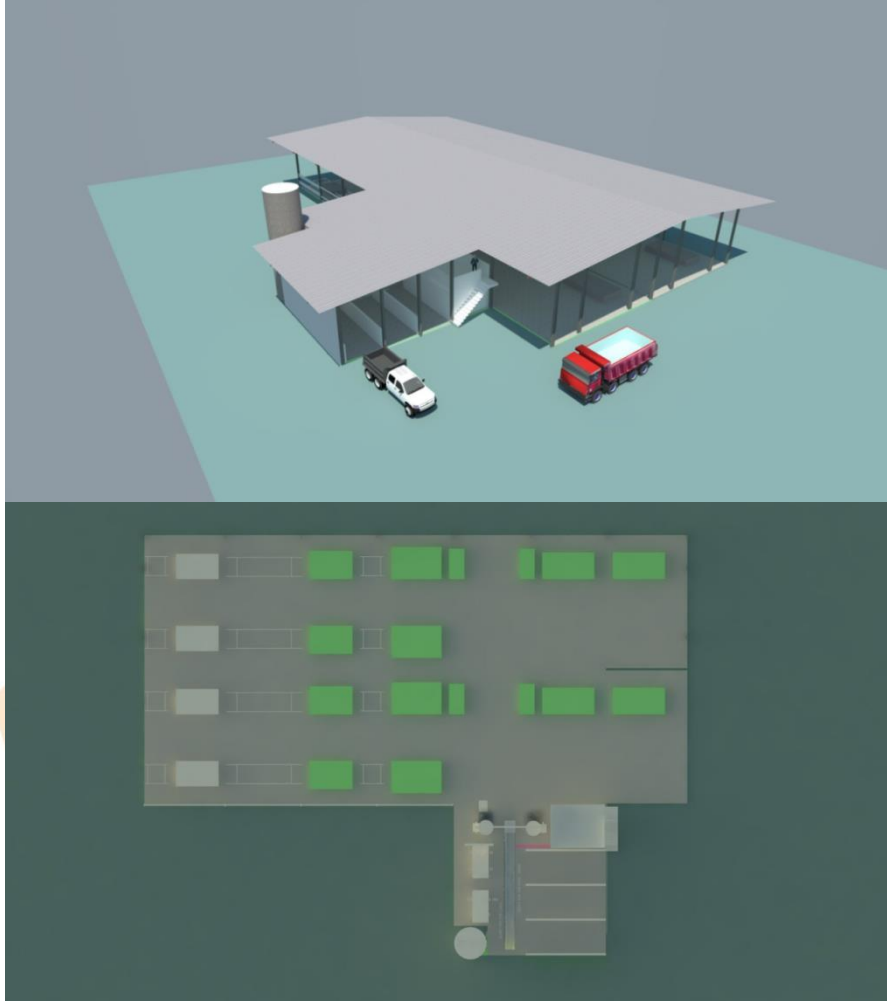
Sample ID	Height [mm]	Diameter [mm]	Mass [g]	Load [kN]	Density [kg/m ³]	Compressive strength [MPa]
4-4/8	200	100	3725	986.3	2380	126.0
5-4/8	200	100	3736	957.4	2380	122.6
6-4/8	200	100	3734	913.2	2380	116.5
Mean value:					2380	121.7
Standard deviation:					10	4.8

Remarks:
 Sample 4-4/8: Contained steel fibers.
 Sample 5-4/8: Contained steel fibers. Modulus of elasticity was measured prior to compressive strength test.
 Sample 6-4/8: Contained steel fibers.

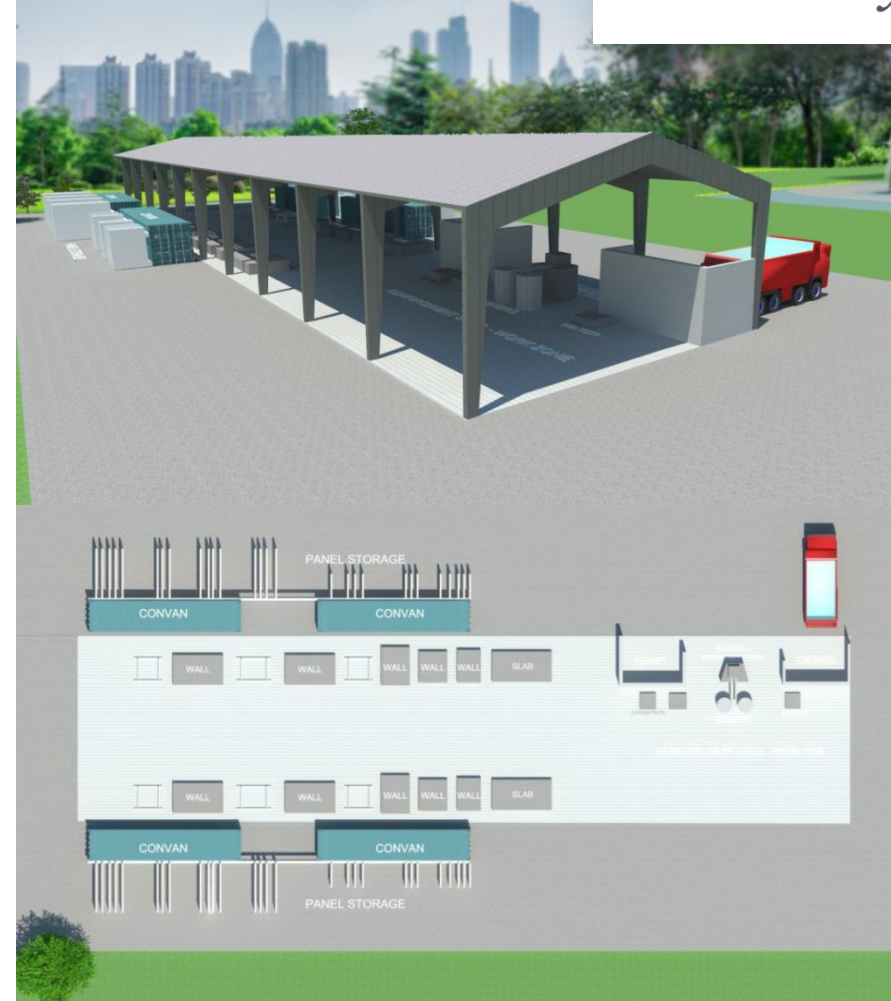
Sample ID	Height [mm]	Diameter [mm]	Mass [g]	Load [kN]	Density [kg/m ³]	Compressive strength [MPa]
4-8/8	200	100	3699	975.9	2370	124.9
5-8/8	200	100	3705	987.6	2370	123.3
6-8/8	200	100	3700	941.1	2370	120.4
Mean value:					2370	123.9
Standard deviation:					0	3.1

Remarks:
 Sample 4-8/8: Contained steel fibers. Modulus of elasticity was measured prior to compressive strength test.
 Sample 5-8/8: Contained steel fibers.
 Sample 6-8/8: Contained steel fibers.

Factory Layout



INNOVATION
Made by Denmark



Mobile Factory

INNOVATION

Made by Denmark



A Home made of **connovate** PHILIPPINES INCORPORATED

- High-quality surfaces (non-porous)
- Robust and durable items
- Resistant to pests
- Resistant to deterioration
- Fire safety

In 30 years:

Projected Net Realizable Value*

PHP 7.05M or
USD 135K

*Since Connovate panels have 100 years lifespan, only the finishing's will be replaced



A Home made of CONVENTIONAL HOLLOW BLOCKS

- Rough surfaces (high porosity)
- Prone to pests and molds
- **With only 30 years lifespan**

In 30 years:

Projected Net Realizable Value*

PHP 1.27M OR
USD 24K

*Since the house lifespan is only 30 years, realizable value after 30 years pertain only to the value of the land.



CO₂ EMISSION REDUCTION

SOLAR SOLUTIONS + CONNOVATE PANELS



 Imperial Lifetime Homes

Imperial objective is the same with IFC/World Bank EDGE and United Nations Environment Program and Climate Change Commission

Our role to lead this concept will benefit the Country when you save on electricity, on emission of CO₂, by placing 24-hour solar generator as part of their daily lives.

For 5,000 homes:

1st Generation Solar Powered Community

- ▶ Savings in electricity from fossil fuel: \$9,227,272 per year
- ▶ Annually eliminated carbon for solar system : 7,200 tons

2nd Generation Solar Powered Community

- ▶ Impact of Connovate to CO₂, emission 24,000 tons

For 3,000,000 homes:

- ▶ Savings in electricity from fossil fuel: \$2,768,181,818 per year
- ▶ Annually eliminated carbon for solar system : 1,882,000 tons

- ▶ Impact of Connovate to CO₂, emission to 14,400,000 tons



The Future: Lifetime Solar Powered Condominium Villas

A breakthrough in the Vertical Development

 Imperial
Lifetime Homes

MICRO-GRID Solar Powered
Mass Housing Communities as another
proof of concept

