

NHMFC

HDMF

NHA

DHSUD



# MANUAL

ON

**ACCREDITATION OF INNOVATIVE  
TECHNOLOGIES FOR HOUSING**

**(A I T E C H)**

UP-BRS

DPWH

DTI

CIAP

DOST



# **A I T E C H**

## **Accreditation of Innovative Technologies for Housing**

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## **I. BACKGROUND**

**AITECH** stands for Accreditation of Innovative Technologies for Housing. It is a system for accrediting innovative technologies for housing. AITECH was conceived as a result of the numerous building technologies that have been developed in the last few years using non-traditional or alternative materials and systems. Cognizant of their potential in reducing over-all housing costs, it has become imperative to accredit these innovative technologies for low-cost housing.

AITECH responds to queries and requests from private manufacturers of indigenous and innovative building materials/systems for technical and engineering evaluation leading to accreditation of these products. The AITECH Inter-Agency Committee reviews and accredits the technologies.

## **II. COMMITTEE MEMBERS**

The AITECH Committee is composed of the following agencies:

- Department of Human Settlements Urban Development (DHSUD)
- National Housing Authority (NHA)
- Department of Science and Technology (DOST)
- Department of Public Works and Highways (DPWH)
- Home Development Mutual Fund (HDMF)
- National Home Mortgage Finance Corporation (NHMFC)
- Construction Industry Authority of the Philippines (CIAP)
- Department of Trade and Industry – Bureau of Philippine Standards (DTI – BPS)
- University of the Philippines – Building Research Service (UP – BRS)

## **III. OBJECTIVES OF THE COMMITTEE**

The AITECH Committee acts as a review and approving body for applications for accreditation of innovative technologies appropriate for housing. Its main objective is to assist producers of innovative technologies in securing acceptance of their products or systems in the market as well as to make these technologies acceptable for funding under government housing loan programs.

The Committee also aims to encourage and promote the use of innovative technologies as an alternative to traditional housing construction system; and to develop standards, guidelines, and procedures for accreditation system.

#### **IV. SCOPE OF WORK AND FUNCTIONS OF THE COMMITTEE**

The AITECH Committee reviews applications for accreditation of new and improved technologies which are appropriate for housing and can serve as alternatives to traditional or conventional building technologies.

The Committee performs the following functions:

1. Review and approve applications for materials testing and engineering and economic evaluation of local and/or foreign innovative housing technologies;
2. Provide services as testing, wherein evaluating agencies conduct the necessary validation on innovative technology systems / materials;
3. Issue certificates of validation and / or accreditation to manufacturers / owners of approved innovative technology systems / materials;
4. Issue implementing guidelines and procedures on the said accreditation system for public dissemination;
5. Determine the amount of processing fee to be charged by testing / evaluating agencies for the information of applicants;
6. Establish performance and cost standards and identify relevant tests for building materials / systems as the basis for evaluating and accrediting innovative technology systems / materials;
7. Review appropriate applications of new technologies and use of innovative building materials;
8. Provide a short-list of accredited building technologies to funding institutions and dissemination of information to other possible end-users; and
9. Undertake such other functions as may be necessary to disseminate information to support its primary functions.

## **V. ROLES AND RESPONSIBILITIES OF PARTICIPATING AGENCIES**

The roles and responsibilities of participating agencies are:

1. Department of Human Settlements and Urban Development (DHSUD) – shall act as the head agency for the Committee. and as such, the DHSUD Secretary shall be the signing authority for the Accreditation Certificate
2. National Housing Authority (NHA) – the National Housing Authority shall act as the AITECH Secretariat for the Committee, and the responsible agency involved with the structural and economic evaluation of new technologies system appropriate for socialized, economic medium and high-end housing project with the following specific functions: Review the consistency of pertinent documents required for accreditation before payment of the required fees; Refer necessary testing/evaluation to the proper AITECH member agencies upon payment of the required fees; Coordinate the holding of the regular Committee meetings and; Perform other administrative functions related to accreditation.
3. Department of Science and Technology - Philippine Council for Industry, Energy and Emerging Technology Research and Development (DOST-PCIEERD) - recommend innovative materials/technologies for construction application; support Research and Development for housing technologies; and provide list of testing center amongst the DOST Research and Development Institutes and other established laboratory that will conduct materials testing and evaluation involving the physical, mechanical and other related properties.
4. Home Development Mutual Fund / National Home Mortgage Finance Corporation (HDMF/NHMFC) –accept accredited technologies.
5. NHMFC – reviews and accepts accredited technologies for mortgage financing under UHLP.
6. University of the Philippines – Building Research Service (UP-BRS) – Act as an alternative testing facility and evaluating agency concerned with the overall technical feasibility and structural integrity of technologies.
7. Department of Public Works and Highways – Bureau of Research Standards (DPWH-BRS) – Act as an alternative evaluating agency on structural designs for one storey,

medium to high rise housing; testing of materials pertaining to other technologies for infrastructure and validation of laboratory test results from accredited testing laboratories.

8. Construction Industry Association of the Philippines (CIAP) – tasked with the dissemination of information as well as the inclusion of applicable technologies in the Modular Coordination System
9. Department of Trade and Industry – Bureau of Philippine Standards (DTI-BPS)– tasked with information dissemination on new construction materials as well as the development standards:

## **VI. DEFINITION OF TECHNOLOGY**

The term “*technology*” refers to (1) new production processes of existing systems/materials; (2) new construction techniques applied or utilized in low-cost housing units; and (3) new building materials designed to serve as alternatives to traditional or conventional components.

The technologies considered for application are the following:

1. Locally developed and manufactured building systems / materials appropriated for housing including their construction techniques / systems; and
2. Building systems / materials developed in other countries, whether being introduced to the country or have been adopted and manufactured locally with or without modifications.

## VII. CRITERIA FOR ACCREDITATION






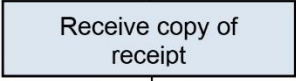
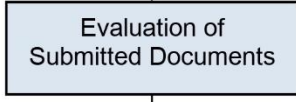
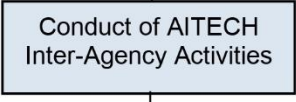
Innovative technologies include local and international technologies that use non-traditional or alternative materials or system with significant reductions in construction costs (thereby ensuring affordability) as opposed to the use of conventional materials and systems (e.g. concrete hollow blocks). In addition, innovative technologies place emphasis on environmental considerations.

Evaluation of Committee member agencies are based on the following:

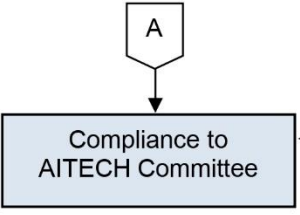

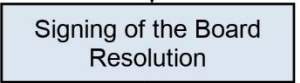
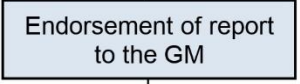
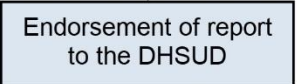


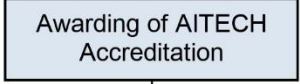
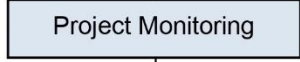

- a) Compliance to housing standards based on BP 220, PD 957 and the National Building Code, Fire Code, BP344 & other applicable laws;
- b) Structural evaluation / validation of submitted structural designs (based on design load and allowable applied stresses);
- c) Cost effectiveness based on the resulting construction costs (current cost estimates of housing construction inclusive of mark-up) as compared with housing units built with conventional building technologies. Use of special equipment and costs of transport shipment of materials should also be incorporated in cost estimates.
- d) Appraisal / validation of housing units using the technology for mortgage acceptance by funding institutions.
- e) Physical properties and structural soundness of technologies in relation to health consideration and suitability to local climactic and topographic conditions;
- f) Locally available raw materials for the production / use of particular technologies; and
- g) Consistency of required quality in mass production.

## VIII. STEPS IN ACCREDITATION

Technology evaluation shall be based on the information provided in all documents submitted to the AITECH Secretariat as well as on plant and site inspection conducted by the AITECH member-agencies. The steps in accreditation are as follows:

ACTIVITY	RESPONSIBILITY	NOTES / REFERENCES
		
	AITECH Evaluator	1. Receive the application form and attached documents (hard copy or e-file sent via email). See to it that required documents are complete.
		
	AITECH Secretariat	2. Issue an Order of Payment to be paid by the Proponent/Applicant for evaluation fees.
	Proponent/Applicant	3. Pay the corresponding Evaluation Fee at the Treasury Department and give a copy of the receipt to AITECH Secretariat.
	AITECH Secretariat	4. Receive a copy of the receipt from the Proponent/Applicant.
	AITECH Secretariat	5. Evaluate structural design/cost, financial and technical documents or seek assistance from support agencies. 6. Prepare Board Resolution for the signature of Committee members.
	AITECH Committee Members/ AITECH Secretariat/ Proponent/Applicant	7. Proponent/Applicant shall present pertinent matters. 8. AITECH Committee Members shall deliberate the presentation and/or discuss other pertinent matters.



ACTIVITY	RESPONSIBILITY	NOTES / REFERENCES
	Proponent/Applicant AITECH Secretariat	<p>9. Proponent/Applicant shall <u>submit compliance</u> per instruction from the AITECH Committee members.</p> <p>10. AITECH Secretariat shall coordinate/check the submitted compliance of the Proponent/Applicant and coordinates AITECH Committee Members' approval).</p>
		
	AITECH Secretariat	11. Prepare the Board Resolution for the signing of the Committee members.
	AITECH Secretariat	12. Endorse the report to the General Manager (GM) attaching the board resolutions signed by the committee members
	AITECH Secretariat	13. Endorse the report with the signed board resolution to DHSUD.
	DHSUD	14. Prepare AITECH Certification and forward to the DHSUD Secretary for signature.
	DHSUD Secretary	15. Sign the AITECH Accreditation Certification and endorse to AITECH Secretariat.
	Proponent/Applicant	16. Receive AITECH Accreditation Certificates from the AITECH Secretariat
	AITECH Secretariat	17. Conduct of monitoring and site and plant/warehouse visit of completed and on-going projects using the accredited technology
		



## MATERIAL ONLY

Name of Proponent : \_\_\_\_\_

Business Address : \_\_\_\_\_

Company/Corporate Head : \_\_\_\_\_

Position : \_\_\_\_\_

Contact Person : \_\_\_\_\_

Position : \_\_\_\_\_

Tel. No/Fax Nos./Cell. No. : \_\_\_\_\_

Email Address : \_\_\_\_\_

Name of Technical Material : \_\_\_\_\_

Location of Plant/Warehouse : \_\_\_\_\_

Brief Description : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\*\*\*\*\*Checklist of requirements (To be submitted in 3 sets) \*\*\*\*\*

- |   |  |
|---|--|
| <p><input type="checkbox"/> Company Profile supported with Registration Certificate from SEC for corporations, DTI for soles proprietorship or CDA for cooperatives.</p> <p><input type="checkbox"/> Audited Financial Statements which shall include Accountants Statement and Income Tax Return stamped and duly received by the</p> <p><input type="checkbox"/> Copy of Title of Patent (if applicable)</p> <p><input type="checkbox"/> Technology Brochures</p> <p><input type="checkbox"/> Technical Manual</p> <p><input type="checkbox"/> Economic Life Span (signed and notarized warranty, see attached suggested format)</p> <p><input type="checkbox"/> Sample Material (1 only)</p> <p><input type="checkbox"/> Video Presentation on the Correct Construction Methodology</p> <p><input type="checkbox"/> Test Results – Suggested accredited testing agencies/ laboratories</p> <p><input type="checkbox"/> Moisture Test                      MATEST or other DPWH accredited agencies / laboratories (02) 642-0664</p> <p><input type="checkbox"/> Compressive and Tensile Test                      DOST 837-2071 / UP-BRS 981-8500</p> <p><input type="checkbox"/> Fire Test                                      FPRDI 049-5362360</p> <p><input type="checkbox"/> Other Necessary Tests</p> | <p><input type="checkbox"/> Working Drawings with Connection Details</p> <p><input type="checkbox"/> Material Specifications</p> <p><input type="checkbox"/> Selling Cost and Cost Estimates of the applied technology/material (Direct Cost only) signed and sealed</p> <p><input type="checkbox"/> Cost Comparison between the applied innovative technology/material and the conventional</p> <p><input type="checkbox"/> Photocopy of PRC ID of licensed professionals (per discipline i.e, structural, architectural, plumbing, electrical, mechanical, if necessary)</p> <p><input type="checkbox"/> Technology Power Point Presentation (e-file copy)</p> <p><input type="checkbox"/> List of Completed and On-going Projects using the applied technology /material (List should include project name and owner, location and no. of units)</p> <p><input type="checkbox"/> Ocular inspection of Plant, Completed and On-going Projects using the applied technology</p> |
|---|--|

*Note: Foreign Trade Test results shall be accompanied by a letter of Certification from the Embassy where the tests were conducted*

## WALL PANEL/MATERIAL

Name of Proponent : \_\_\_\_\_

Business Address : \_\_\_\_\_

Company/Corporate Head : \_\_\_\_\_

Position : \_\_\_\_\_

Contact Person : \_\_\_\_\_

Position : \_\_\_\_\_

Tel. No/Fax Nos./Cell. No. : \_\_\_\_\_

Email Address : \_\_\_\_\_

Name of Technical Material : \_\_\_\_\_

Location of Plant/Warehouse : \_\_\_\_\_

Brief Description : \_\_\_\_\_

\*\*\*\*\*Checklist of requirements (To be submitted in 3 sets) \*\*\*\*\*

- |   |  |
|---|--|
| <p><input type="checkbox"/> Company Profile supported with Registration Certificate from SEC for corporations, DTI for soles proprietorship or CDA for cooperatives.</p> <p><input type="checkbox"/> Audited Financial Statements which shall include Accountants Statement and Income Tax Return stamped and duly received by the</p> <p><input type="checkbox"/> Copy of Title of Patent (if applicable)</p> <p><input type="checkbox"/> Technology Brochures</p> <p><input type="checkbox"/> Technical Manual</p> <p><input type="checkbox"/> Economic Life Span (signed and notarized warranty, see attached suggested format)</p> <p><input type="checkbox"/> Sample Material (1 only)</p> <p><input type="checkbox"/> Video Presentation on the Correct Construction Methodology</p> <p><input type="checkbox"/> Test Results – Suggested accredited testing agencies/ laboratories</p> <p><input type="checkbox"/> Moisture Test                      MATEST or other DPWH accredited agencies / laboratories (02) 642-0664</p> <p><input type="checkbox"/> Compressive Test                      DOST 837-2071 / UP-BRS 981-8500</p> <p><input type="checkbox"/> Fire Test                                      FPRDI 049-5362360</p> <p><input type="checkbox"/> Other Necessary Tests</p> | <p><input type="checkbox"/> Working Drawings with Connection Details</p> <p><input type="checkbox"/> Material Specifications</p> <p><input type="checkbox"/> Selling Cost and Cost Estimates of the applied technology/material (Direct Cost only) signed and sealed</p> <p><input type="checkbox"/> Cost Comparison between the applied innovative technology/material and the conventional</p> <p><input type="checkbox"/> Photocopy of PRC ID of licensed professionals (per discipline i.e. structural, architectural, plumbing, electrical, mechanical, if necessary)</p> <p><input type="checkbox"/> Technology Power Point Presentation (e-file copy)</p> <p><input type="checkbox"/> List of Completed and On-going Projects using the applied technology /material (List should include project name and owner, location and no. of units)</p> <p><input type="checkbox"/> Ocular inspection of Plant, Completed and On-going Projects using the applied technology</p> |
|---|--|

*Note: Foreign Trade Test results shall be accompanied by a letter of Certification from the Embassy where the tests were conducted*



## SEPTIC TANK

Name of Proponent : \_\_\_\_\_

Business Address : \_\_\_\_\_

Company/Corporate Head : \_\_\_\_\_

Position : \_\_\_\_\_

Contact Person : \_\_\_\_\_

Position : \_\_\_\_\_

Tel. No/Fax Nos./Cell. No. : \_\_\_\_\_

Email Address : \_\_\_\_\_

Name of Technical Material : \_\_\_\_\_

Location of Plant/Warehouse : \_\_\_\_\_

Brief Description : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\*\*\*\*\*Checklist of requirements (To be submitted in 3 sets) \*\*\*\*\*

- |   |   |
|---|---|
| <input type="checkbox"/> Company Profile supported with Registration Certificate from SEC for corporations, DTI for soles proprietorship or CDA for cooperatives. | <input type="checkbox"/> Working Drawings with Connection Details   |
| <input type="checkbox"/> Audited Financial Statements which shall include Accountants Statement and Income Tax Return stamped and duly received by the            | <input type="checkbox"/> Material Specifications  |
| <input type="checkbox"/> Copy of Title of Patent (if applicable)  | <input type="checkbox"/> Selling Cost and Cost Estimates of the applied technology/material (Direct Cost only) signed and sealed  |
| <input type="checkbox"/> Technology Brochures   | <input type="checkbox"/> Cost Comparison between the applied innovative technology/material and the conventional  |
| <input type="checkbox"/> Technical Manual   | <input type="checkbox"/> Photocopy of PRC ID of licensed professionals (per discipline i.e, structural, architectural, plumbing, electrical, mechanical, if necessary)          |
| <input type="checkbox"/> Economic Life Span (signed and notarized warranty, see attached suggested format)  | <input type="checkbox"/> Technology Power Point Presentation (e-file copy)  |
| <input type="checkbox"/> Sample Material (1 only)   | <input type="checkbox"/> List of Completed and On-going Projects using the applied technology /material (List should include project name and owner, location and no. of units) |
| <input type="checkbox"/> Video Presentation on the Correct Construction Methodology   | <input type="checkbox"/> Ocular inspection of Plant, Completed and On-going Projects using the applied technology   |
| <input type="checkbox"/> Test Results – Suggested accredited testing agencies/ laboratories   |   |
| <input type="checkbox"/> Material Test                      DOST 837-2071 / UP-BRS 981-8500   |   |
| <input type="checkbox"/> Effluent test                              LLDA 286-6143 /286-6123   |   |

*Note: Foreign Trade Test results shall be accompanied by a letter of Certification from the Embassy where the tests were conducted*

### XI. SCHEDULE OF FEES (subject to change)

- |                               |             |
|-------------------------------|-------------|
| 1. One (1) to Four (4) Storey | P 20,403.72 |
| 2. Five (5) Storey and Above  | P 30,122.82 |
| 3. Materials Only             | P 20,403.72 |

## **XII. LIST OF ACCREDITED TECHNOLOGIES AS OF MARCH 2024**

### **BUILDING SYSTEM**

#### **One Storey**

1. BARNPRO PREFAB BUILDINGS CORP. - Light Gauge Steel
2. CAVITE FORM - MODULES INC. - JJM Wall Formtile
3. JACINTOCOLOR STEEL, INC. – Typhoon-Resilient Pre-fabricated Steel Frame Housing
4. JF LEDESMA FOUNDATION INC. – San Carlos Philippine Enviro-Blox (Interlocking Compressed Earth Block - ICEB)
5. LICIADA INNOVATIONS, INC. - FCS Interlocking Brick Building System
6. PIONEER SPECIALTY BUILDING SYSTEMS, INC. - Pioneer Ecosips
7. SCHMIDT KONSTRUKTION SYSTEMS CORP. (SKSC) - SKS Steel Framing System
8. UNIMORE TRADING CORP. - Modular House

#### **One to Two Storey**

1. ACCUTECH STEEL AND SERVICE CENTER, INC. - Light Gauge Steel Frame
2. BASE BAHAY FOUNDATION, INC. - Cement-Bamboo Frame Technology
3. CONNOVATE PHILIPPINES, INC. – Connovate Pre-cast Wall Panel
4. EARTH-BASED HABITAT BUILDERS AND INTEGRATED SERVICES, INC. – San Carlos Philippine Enviro-blox (Inter-Locking Compressed Earth Block - ICEB)
5. GRADITEL CONSTRUCTION CORPORATION - Graditel Wall Panel
6. HAUSLAND DEVELOPMENT CORPORATION/FIESTA COMMUNITIES, INC. – 400 and 750 psi Load-Bearing Walls (C.H.B.)
7. UNIMORE TRADING CORP. – Pre-Engineered and Pre-Fabricated Housing System

#### **One to Three Storey**

1. STERLING CONSTRUCTION AND DEVELOPMENT CORP. - Plaswall

#### **One to Four Storey**

1. STARKEN PHILIPPINES, INC. - Autoclaved Aerated Concrete (AAC)

#### **Five Storey and Above**

1. ALAKOR CORPORATION - Waffle-Crete Precast Reinforced Cement Structure
2. BEC SPECIALISTS PHILIPPINES INC. - Safe and Modular Housing Technology (SAMHT)
3. COMMUNITY DEVELOPERS AND CONSTRUCTION CORPORATION - Tunnel Formworks System
4. DASCO GLOBAL CONSTRUCTION AND DEVELOPMENT CORP. - Prefabricated Post-Tensioned Superstructure System
5. MEGAWIDE CONSTRUCTION CORPORATION - Prefabricated Concrete Products (Building Components)

## **MATERIAL ONLY**

### **Wall Panel/ Material**

1. AAC LIGHTWEIGHT BLOCK CORP. – Lightstrong Autoclaved Aerated Concrete Block
2. ACASYS DEVELOPMENT CORPORATION – Acasys Wall System
3. AGTEKPIN BRICKS MANUFACTURING – Agtekpın Bricks
4. AV88 CORP. – M-Wall Panel And M-Floor Panel
5. CHINA-PHILIPPINES WALL TECH SYSTEMS INC. - FahstWALL
6. EZ BLOCK CORPORATION – Foam Concrete Block
7. FORTHRESS PHILIPPINES CORPORATION - Forthress Lightweight Precast Concrete Panel
8. JAMES HARDIE PHILIPPINES, INC. - HARDIEFLEX Fiber Cement Board
9. PENTA-CONTINENTAL WALL PANEL SYSTEMS INCORPORATED - Quick Panel Lightweight Wall Panel
10. RC SOLID STAR CONSTRUCTION CORPORATION – RC Wall
11. SILVERMANE IMPEX AND GLOBAL TRADING CORP. - Hekimpan Fibercement EPS Wall Panel
12. SRC INT'L PANEL SYSTEM, INC. – SRC Panel
13. STARBOARD FOUNDATION INC. - Eco Blocks
14. SUCCESSFUL GAINS TRADING CORP. – D'ez Blox
15. SYU GROUP SYSTECH CORP. - Polywall EPS Lightweight Concrete Panel

### **Reinforcement Bar**

1. ARRS CONSTRUCTION MATERIALS TRADING – ARRS GFRP Supreme
2. MAHANAIM CONSULTING AND DEVELOPMENT INC. – Armastek Glass Fiber Reinforced Polymer

### **Flooring System**

1. ARCHITECKS METAL SYSTEMS, INC. - Concrete Floor Steel Decking

### **Septic Tank/Toilet System**

1. BESTANK MANUFACTURING CORP – Filtering Septic Tank
2. ECO STORAGE SOLUTIONS INC. - Multitank Plastic Septic Tank
3. SEJONG PLASTIC MFG. CORP. – 3 Chamber Plastic Septic Tank
4. YUNHAP PLASTIC CORPORATION - Three Chamber Plastic Purifying Septic Tank

*Total Number of Accredited Technologies:* **44 TECHNOLOGIES**



## ONE STOREY BUILDING SYSTEM

### **BARNPRO PREFAB BUILDINGS CORP.**

#### ***Light Gauge Steel***

Light Gauge Steel (LGS) technology is a modern construction method designed to meet the demands of mass housing units. It is made of galvanized steel that can provide roof trusses, wall frames and floor joist. Its advanced design and engineering software can result in faster build times, lower costs, earthquake resistant, sustainable and better sustainable and better building solution.



Contact Person: Robert V. Dizon

Cabio Compound, Purok Bumanaag, Brgy. Zone 3,  
Koronadal City

T: (083)228-2046 M: 0917-301-3789/0917-639-5161

Validity: June 1, 2023- June 1, 2026

### **CAVITE FORM - MODULES INC.**

#### ***JJM Wall Formtile***

Formtiles are made of concrete with pre-designed sections (tongue and groove) and pre-punched holes with rough to smooth surface finish. Formtile can be carried out by a single worker alone. Installation of Formtile can be done with a self drilling screw. The invention of our Formtile shall address builder's construction concerns like efficiency and improve earnings. Formtile is also ideal in improving construction operations giving our clients positive response impact to their customers.



Contact Person: Alfredo F. Pama III

2/F CFMI Business Center, # 3626 Dequiros Compound,  
Buhay Na Tubig, Imus, Cavite

T: 046-4403651/046-2383439 M: 0977-6792878/09193476955

Validity: June 1, 2023- June 1, 2026

## ONE STOREY BUILDING SYSTEM

### JACINTOCOLOR STEEL, INC.

#### ***Typhoon-Resilient Pre-fabricated Steel Frame Housing***

A typhoon-resilient pre-fabricated steel frame housing adapted to be mounted to a floor slab which could be convenient, easy to install, and dismantle as well for purposes of transferring it to another site or location as desired that includes a plurality of pre-fabricated panelized wall frames removably connected along its longitudinal edges & having openings for its window and door provisions and a plurality of pre-fabricated panelized roofs each removably secured on top of said plurality of pre-fabricated panelized wall frames.



Contact Person: Sissie E. Bongat

Jacinto Compound, KM. 21 Quirino Highway Brgy. Pasong Putik, Novaliches, Quezon City

T: (02) 7219-8484

Validity: April 29, 2022 to April 29, 2025

### JF LEDESMA FOUNDATION INC.

#### ***San Carlos Philippine Enviro-Blox (Interlocking Compressed Earth Block - ICEB)***

The Interlocking Compressed Earth Block (ICEB) is the advancement of the compressed earth block used by Julio & Florentina Ledesma Foundation Inc. for more than 2 decades. It has been increasingly popular because of its various advantages compared to conventional masonry. It is a load-bearing block designed to have male and female circular holes that create an interlocking system when stacked; thus eliminates the need for mortar. These holes provide reinforcement for vertical and horizontal bars. It is a green building technology utilizing earth as the basic material, which is readily available and mixed with cement as stabilizer to enhance the strength of the block. With proper application of the ICEB Building System, the building can last up to 50 years.



Contact Person: Engr. Julie Anne D. Angling

Cebu Avenue, Business Center, San Carlos City

T: (034) 7293030

Validity: April 29, 2022 to April 29, 2025

## ONE STOREY BUILDING SYSTEM

### **LICIADA INNOVATIONS, INC.**

#### ***FCS Interlocking Brick Building System***

FCS Interlocking Brick System saves cost by eliminating formworks for reinforced concrete columns and beams, plastering and painting costs, reducing many workers, steels and cements. Constructing column and beam without the needs of plywood formworks as well as eliminating the plastering works, weather proof construction, are ones of the key factors why it may be finished faster than conventional construction.



Contact Person: Alma Postrano, Head - Marketing Dep't.  
9024 Barangay Liciada, Bustos, Bulacan  
T: 8584-0000 local 10146 M: 0917-6272330  
Validity: November 15, 2021 to November 15, 2024

### **PIONEER SPECIALTY BUILDING SYSTEMS, INC.**

#### ***Pioneer Ecosips***

Pioneer Ecosips are Insulated panels with EPS-Fire Retardant and 6.0 mm Fiber Cement Board Skin on both sides bonded w/ P.U. Adhesives.



Contact Person: Roel Gonzales, Vice-  
President/General Manager  
7B Balete Drive, New Manila, Quezon City  
M: 0917-835-9032  
Validity: June 1, 2023- June 1, 2026

## ONE STOREY BUILDING SYSTEM

### **SCHMIDT KONSTRUKTION SYSTEMS CORP. (SKSC)** **SKS Steel Framing System**

SKS Structural Steel Framing System is a unique framing made by feeding high tensile steel galvanized or zincalume coil to our machine which then forms the said steel framing profile. SKS Steel Framing is perfect for mass housing as its frames are pre-cut, pre-holed and pre-punched, making it not only cost-effective and builder efficient, but also structurally sound. Frames are screwed and riveted together, interlocked and erected together based on designs of a structural engineer.



Contact Person: Mr. Stewart Kevin Plibundo, Manager  
4 Apo St., Quezon City  
T: 731-0011/731-0022/ F:740-5416 / M:0917-8375410  
Email address: skp@sk.com.ph  
Validity: September 7, 2021 to September 7, 2024

### **UNIMORE TRADING CORP.** **Modular House**

Pre-fabricated structure system using steel and common materials for housing. The structure consist of light gauge steel framing using tubulars, beam boxes, wall studs, tracks, channels, and double furring. It is enclosed with interior fiber cement boards and exterior metal sheets. It can be used for section per section, and it can act as temporary, moveable and permanent structure.



Contact Person: Fenton Kemeny T. Chua  
Unit C 18th Flr. La Fayette 3 Eastwood City,  
Bagumbayan, QC  
T: (02) 7718-5291/09178953368  
Validity: June 1, 2023- June 1, 2024

## ONE TO TWO STOREY BUILDING SYSTEM

### ACCUTECH STEEL AND SERVICE CENTER, INC.

#### ***Light Gauge Steel Frame***

A construction technology that uses cold-formed steel as the primary construction material. It can be used for roof systems, floor systems, wall systems, roof panels, deck as well as the entire building.



Contact Person: Hanz Jordan T. Chan, Vice -President

Arturo Drive, Bagumbayan, Taguig City

T: (02) 8838-9192 M: 09178395368

Validity: August 1, 2023 to August 1, 2024

### BASE BAHAY FOUNDATION, INC.

#### ***Cement-Bamboo Frame Technology***

Base advocates for the use of local renewable materials (bamboo) for construction embedded in resilient and sustainable building concepts in the Philippines. The building technology improves the local economies, is socially inclusive, provides disaster-resistant and comfortable homes and contributes to climate change mitigation and a cleaner environment – all at affordable costs. It can compete with conventional construction methods in terms of economy, technology, society and ecology. Moreover, construction duration is reduced, and the technology can be easily learned by skilled workers.



Contact Person: Luis Felipe Lopez, Head of Technology

UPRC III Building, 2289 Pasong Tamo Extension, Makati City

T: (02) 968-5156 M: 09175730891

Validity: June 1, 2023 to June 1, 2026



## ONE TO TWO STOREY BUILDING SYSTEM

### CONNOVATE PHILIPPINES, INC.

#### **Connovate Pre-cast Wall Panel**

Connovate is an advance concrete production technology developed in Denmark, optimized in building system for high performance concrete. The high performance concrete panels are superior in quality with 100 years lifespan. It is high-strength and lightweight yet slim and compact with smooth and non-porous surface. It is premium thermal insulation makes the panels fire and earthquake resistant. The systematic production allows fast panel production and labor-saving on-site assembly.



Contact Person: Adrian Butch C. Robles  
1201 Alabang Business Tower, Acacia Ave. MBP, Alabang  
Muntinlupa City  
T: (02) 807-8405 M: +639 566 096 690  
Validity: April 29, 2022 to April 29, 2025

### EARTH-BASED HABITAT BUILDERS AND INTEGRATED SERVICES, INC.

#### **San Carlos Philippine Enviro-Blox (Inter-Locking Compressed Earth Block -ICEB)**

The Interlocking Compressed Earth Block (ICEB) is the advancement of the compressed earth block used by the proponent for more than 2 decades. It has been increasingly popular because of its various advantages compared to conventional masonry. It is a load-bearing block designed to have male and female circular holes that create an interlocking system when stacked; thus eliminating the need for mortar. These holes provide reinforcement for vertical and horizontal bars. It is a green building technology utilizing earth as the basic material, which is readily available and mixed with cement as stabilizer to enhance the strength of the block. With proper application of the ICEB Building System, the building can last up to 50 years.



Contact Person Engr. Julie Anne D. Angling, Construction  
Manager  
PEB Bldg., Cebu Avenue, Business Center, San Carlos City  
T: (034) 7293030  
Validity: August 1, 2023 to August 1, 2026

## ONE TO TWO STOREY BUILDING SYSTEM

### **GRADITEL CONSTRUCTION CORPORATION** **Graditel Wall Panel**

Permanent formwork that comprises a pair of sturdy 5mm THK made-to-order, non-asbestos cellulose fiber cement boards. It has a plurality of strategically arranged Expanded Polystyrene Studs (EPS) that are adhesively attached into the boards.



Contact Person: Louis Alphonso A. Adraneda  
8 Naga Road., Pulang Lupa 2, Las Piñas 1740  
T: (02) 8346 2225 / +63 922 923 8907  
Validity: June 1, 2023- June 1, 2026

### **HAUSLAND DEVELOPMENT CORPORATION/FIESTA COMMUNITIES, INC.** **400 and 750 psi Load Bearing Wall (CHB)**

The Hausland Load Bearing Wall are load bearing concrete hollow blocks system designed as shear wall. The load-bearing concrete hollow blocks are laid in a single layer after which, the vertical hollows are filled with mortar up to the top surface thereby creating micro-columns. The reinforcements are welded together and blocks are locked at the end corners for a more stable structure.



Contact Person: Engr. Pedro Tolentino, Consultant  
HLDC Corporate Center, 43-35 Don Bonifacio Avenue  
Pulung Maragul, Angeles City, Pampanga  
T: (045) 893-2935 / (045) 625-7112  
Validity: August 1, 2023 to August 1, 2026

## ONE TO TWO STOREY BUILDING SYSTEM

### UNIMORE TRADING CORP.

#### *Pre-Engineered and Pre-Fabricated Housing System*

Pre-engineered and pre-fabricated housing system uses steel framing concrete materials. A pre-engineered house is a metal structure that consists of light gauge steel framing with beam boxes, wall studs, tracks, channels and double furrings as components using Ficem Board or PVC formworks to incorporate concrete walls wherein pipes may be embedded and walls are considered as load bearing.



Contact Person: Fenton Kemeny T. Chua  
Unit C 18th Flr. La Fayette 3 Eastwood City,  
Bagumbayan, QC  
T: (02) 7718-5291

Validity: November 15, 2021 to November 15, 2024

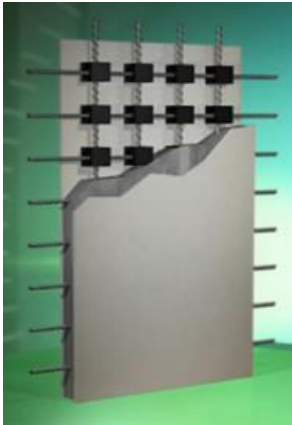


## ONE TO THREE-STOREY BUILDING SYSTEM

### STERLING CONSTRUCTION AND DEVELOPMENT CORP.

#### *Plaswall*

Plaswall is a permanent formwork comprising of plastic spacer and fiber cement board that serves as the finished wall surface. No plastering needed when filled with concrete, it forms a monolithic load bearing wall and shear wall. Plaswall is faster than conventional masonry construction and eliminates time consuming traditional site practice.



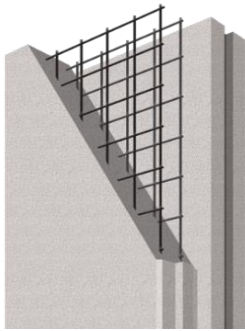
Contact Person: Ar. Oliver Olarte, VP-Operations  
L-8 B-13 Golden Mile, Business Park, Carmona, Cavite  
T: 8889-0934/8844-7160  
Email address: [jonie@ecotechsynergz.com](mailto:jonie@ecotechsynergz.com)  
Validity: June 1, 2023- June 1, 2026

## ONE TO FOUR-STOREY BUILDING SYSTEM

### **STARZEN PHILIPPINES, INC.**

#### ***Autoclaved Aerated Concrete (AAC)***

AAC products are made using slurry mix containing cement, sand, lime and aerating agent. The slurry is poured and molded to form lightweight blocks, panels and lintels cured in autoclave. The high-pressure steam-curing mechanism in the autoclave facilitates the curing process of the molded lightweight concrete, producing physically and chemically stable products that weigh about 1/5 of normal concrete. AAC products contain millions of tiny non-connecting air pockets yielding superior thermal insulation property. AAC products are typically installed to form walls, floors and roofs.



Contact Person: Norelyn Labasug  
1709 BSA Twin Towers, Bank Drive, Ortigas,  
Mandaluyong  
T: 470-3284 M: 09171340201  
Validity: June 1, 2023- June 1, 2026

## FIVE STOREY AND ABOVE

### ALAKOR CORPORATION

#### **Waffle-Crete Precast Reinforced Cement Structure**

Waffle Crete is a one-piece forming system that is fast and easy to use. Insulated molds and covers cure panels overnight, producing one panel per mold per day. Lightweight, modular panels have pre-formed bolted connections that speed the erection process. Skilled crews can set between 2,000 to 4,000 square feet of panels per day. Shorter construction time reduces the cost of labor, management, interim financing, and allows earlier occupancy.



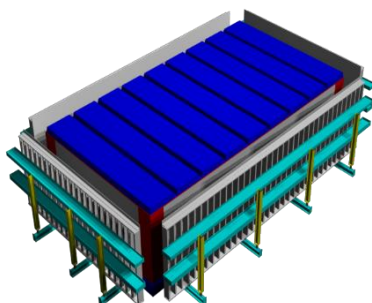
Contact Person: Iris Marie U. Carpio-Duque, Legal Officer  
9th Floor Quad Alpha Centrum, 125 Pioneer Street,  
Mandaluyong City  
T: (02) 86315139  
M: 09175175021

Validity: February 22, 2024 to February 22, 2027

### BEC SPECIALISTS PHILIPPINES INC.

#### **Safe and Modular Housing Tech. (SAMHT)**

It is a machine forming technology that enables manufacturing like applications to the construction industry. US patented technology is used to form seismically and typhoon-resistant reinforced concrete homes quickly and efficiently.



Contact Person : Mr. Patrick Oliver Gabriel

12/F Robinson's Summit Ctr, 6783 Ayala Ave., Makati City

M: 0915-3037117

Email Address: pfgabriel@yahoo.com.ph

Validity: June 1, 2023- June 1, 2024

## FIVE STOREY AND ABOVE

### **COMMUNITY DEVELOPERS AND CONSTRUCTION CORPORATION** ***Tunnel Formworks System***

Tunnel Form is an efficient method of building repetitive structural units. It is based on a load-bearing wall structure, i.e. there are no columns and beams, and essentially involves the pouring of the walls and the slab at the same time creating a monolithic structural unit which can be a room or an apartment.



Contact Person: Angelica Zhamay Carmona, Business Development Officer

Phinma Properties Center, 29 EDSA, Mandaluyong City

M: 0926 734 8729

Validity: June 1, 2023- June 1, 2026

### **DASCO GLOBAL CONSTRUCTION AND DEVELOPMENT CORP.** ***Prefabricated Post-Tensioned Superstructure System***

An advanced system for industrial building utilizing fabricated, post-tensioned modular elements, this system has been in use since 1955 worldwide on mass housing, multi-storey residential blocks projects and schools, etc. (2.5M square meters of projects to date) the system is fast (5-7 days per floor); economical (20-30% less materials used); cost-effective (lighter structure more efficient foundation design plus lower material consumption=lower cost); safe (designed for Zone 4 seismic zones; Category 5 Super-typhoons of more than 24KMP wind).



Contact Person: Dr. Antonio H.K.S. Co

25 Bucking St. Hillsborough Subdivision, Muntinlupa

T: (02)906 6672 M: +639178866926

Validity: June 23, 2021 to June 23, 2024

## **FIVE STOREY AND ABOVE**

### **MEGAWIDE CONSTRUCTION CORPORATION**

#### ***Prefabricated Concrete Products (Building Components)***

Manufacturing (Production) of prefabricated concrete (precast) products for use in buildings (residential, commercial, industrial), horizontal housing units, water retaining structures. These products are specifically external walls, internal walls, slabs, footing, beams, tie beams, interior beams, stairs and landing, shear walls and bathroom units. The design strength ranges from 4000psi and up, depending on the design criteria.



Contact Person: Jeralbine R. Nuguid, AVP Precast BU

20 N Domingo Street, Valencia, Quezon City

M: 09175653230

Validity: August 1, 2023 to August 1, 2026

## WALL PANEL/ MATERIAL

### **AAC LIGHTWEIGHT BLOCK CORP.**

#### ***Lightstrong Autoclaved Aerated Concrete Block***

Lightstrong Autoclaved Aerated Concrete Block is a lightweight homogenous concrete block. Lightstrong is a breakthrough in construction buildings. It contributes greatly to shorten the duration of construction. Installation of AAC Blocks is faster than conventional concrete wall systems due to its simplified methodology. It reduces the substantial cost of foundation and other structural members because of its lightweight property. Building constructed with AAC Blocks is safe as AAC walls have a fire rating of more than four (4) hours. Moreover, the AAC wall is earthquake resilient.



Contact Person: Lizel C. Viñanel

Pope John Paul II Avenue, Mabolo, Cebu City

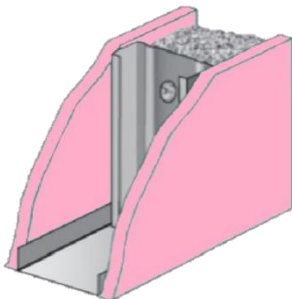
M/T: 09777870697/032 331234

Validity: April 29, 2022 to April 29, 2025

### **ACASYS DEVELOPMENT CORPORATION**

#### ***Acasys Wall System***

The technology involves the use of Light Gauge Steel Frames as the main structure, in filled with cast-in-place Light Weight Concrete and cladded with fiber cement board. The ACASYS Systems achieves better quality and finishes with minimal wastage and cleaner site.



Contact Person: Claudel Embradura

4th Floor Acasys Building Marcos Highway, Brgy. Dela Paz, Pasig City

M: 09338202975

Validity: June 23, 2021 to June 23, 2024

## WALL PANEL/ MATERIAL

### AGTEKPIN BRICKS MANUFACTURING

#### *Agtekpın Bricks*

Agtekpın Bricks are classified under DPWH Standard Specifications for Buildings, Highways, Bridges and Airports as Item 703.4; Masonry Concrete Units complying with ASTM C90's compressive strength requirements of 1700 psi (11.7 Mpa) for Load Bearing Individual Masonry Unit and ASTM C 129's compressive strength requirements of 500 psi (3.45 MPa) for Non-load bearing individual Masonry Unit.



Contact Person: Jacqueline Kate C. Pring

Arellano St., Brgy. Zone III, Koronadal City, South Cotabato

T: (083) 228-3968 M: 09272575653; 092876042455

Validity: September 7, 2021 to September 7, 2024

### AV88 CORP.

#### *M-Panel*

M-Panel is composed of bamboo, concrete and wire mesh as an alternative to CHB walls. It is more affordable and economical than CHB walls and has a minimum concrete strength of 2000 psi. It could be installed by cast-in-place or prefabricated panels.



Contact Person: Ms. Maresciel Ang Yao, President

Unit 207 B PMHA Building, East Avenue, V. Luna St. Brgy. Pinyahan, Quezon City

T: (02) 351-8503 M: 09175398445

Validity: April 29, 2022 to April 29, 2025



## WALL PANEL/ MATERIAL

### CHINA-PHILIPPINES WALL TECH SYSTEMS INC.

#### **FahstWALL**

Pre-cast panels made from a composite of concrete, EPS granules, organic and inorganic fibers, and coal powder; sandwiched by moisture-proof FahstWALL boards on both faces and fused by high-strength binders through a systematic curing production process that guarantees a high-quality and stable product.



Contact Person: Michael Basubas, President  
P.C Suico St. Brgy. Tingub, Mandaue City, Cebu  
M: 0917 322 2509 / 0917 598 9987  
Validity: June 1, 2023- June 1, 2026

### EZ BLOCK CORPORATION

#### **Foam Concrete Block**

EZ Block, also known as Foam Concrete Block, is a patented anti-seismic joint that is lightweight. It is made from a mixture of cement, water, admixture, additives, and foaming agent. The foaming agent is a special technical grade with zero shrinkage and expansion. EZ Blocks have good chemical strength, low thermal conductivity, good soundproofing, anti-seismic properties, and is fireproof.



Contact Person: Alfred Guzman, President  
#10 Sulit St. Brgy. Inaon, Pulilan, Bulacan  
T: (632) 584 6074 M: 0918 903 8581  
Validity: August 1, 2023 – August 1, 2024



## WALL PANEL/ MATERIAL

### **FORTHRESS PHILIPPINES CORPORATION**

#### ***Forthress Lightweight Precast Concrete Panel***

Forthress Lightweight Precast Panel is a lightweight concrete panel composed of Cement, Sand, Polystyrene Beads, 4.5mm the. Calcium Silicate Board. Panels are connected using tongue and groove design. It can be customized and cut to any form.



Contact Person: Mara M. Carraso, Project Coordinator  
Unit 2508 City Land Herrera Tower 98 VA Rufino St., Cor.  
Valero St., Salcedo Village, Makati City

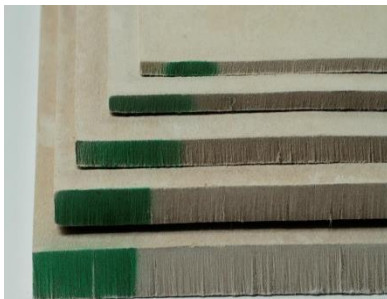
T: 02 8723 0517 M: 0917 169 5636

Validity: June 1, 2023- June 1, 2026

### **JAMES HARDIE PHILIPPINES, INC.**

#### ***HARDIEFLEX Board***

Hardieflex Fiber Cement Boards are lightweight, eco-friendly, cost effective and durable against a host of destructive factor - termites, fire, impact, rotting and moisture damage. It is made up of raw materials that are low in toxicity; cellulose fiber - unbleached pine wood pulp from sustainable plantation timber, ordinary Portland cement, locally sourced sand/silica and small amounts of additives as required for specific product properties.



Contact Person: Warren Paul Enciso

Brgy. San Isidro, Cabuyao, Laguna

T: (02) 870 2500 M: 09988437471

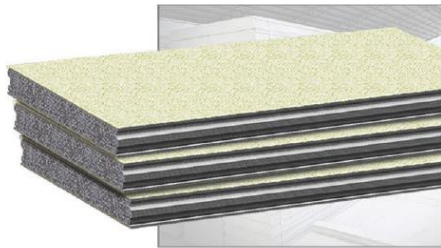
Validity: November 15, 2021 to November 15, 2024

## WALL PANEL/ MATERIAL

### **PENTA-CONTINENTAL WALL PANEL SYSTEMS INCORPORATED**

#### ***Quick Panel Lightweight Wall Panel***

Quick Panel Lightweight Wall Panel is a non-load bearing wall that is a technologically superior alternative to traditional concrete hollow blocks. It provides an industry revolutionizing solution that is cost and time efficient compared to most of the existing methods available in the market.



Contact Person: Rizalene B. Carbonell  
Purok 1, Mabalas St., Brgy. Panipunan, San  
Fernando, Pampanga

M: 0917-546-7707

Validity: June 1, 2023- June 1, 2026

### **RC SOLID STAR CONSTRUCTION CORPORATION**

#### ***RC Wall***

RC Wall partitions are made from both surfaces with 100% non-asbestos fiber cement boards. Core of natural quartz, EPS particle, lightweight portland cement, sand volcanic (vibro) as fillers and technical additives forming by one time compound. It can be widely applied to interior wall partitions of various high rise or low rise buildings on concrete or steel structure, for new construction, renovations or expansions such as: condotel, dormitory, hospital, hotel, condominium, warehouse, residential, housing, etc.



Contact Person: Engr. Leandro Enriquez, Chief  
Operations Officer  
108 Altaville Townhouse, Dapitan St. Sto. Domingo  
Avenue, Quezon City

M: 09950225210

Validity: June 1, 2023- June 1, 2026

## **WALL PANEL/ MATERIAL**

### **SILVERMANE IMPEX AND GLOBAL TRADING CORP**

#### ***Hekimpan Fibercement EPS Wall Panel***

Hekimpan Fibercement EPS Wall Panel is a pressed panel made of Hekim Board and Hekim Por for interior and exterior wall application. The technology is water resistant, fire resistant (Class A), aesthetically designed, weather resistant, maintenance free, cost-efficient and easy to install.



Contact Person: Maureen Scherrie Delantar  
101 VVS Bldg. Multinational Ave. Parañaque City  
M: 0915-711-8181/ 0995-046-6698/ 0921-667-8855  
Validity: June 1, 2023- June 1, 2024

### **SRC INT'L PANEL SYSTEM, INC.**

#### ***SRC Panel***

SRC Panel is a composite sandwich-type structural panel composed of high tensile wires densely welded together, an expanded polystyrene (EPS) core and concrete panels for exterior faces. The core also functions as thermal and acoustic insulation. It is the modern alternative to concrete hollow blocks (CHB) as a building material and the benefits it has are far greater than using CHB. This innovative product is rapidly becoming more popular among architects and contractors.



Contact Person: Myrna Montaos, Sales and Marketing Manager  
LBRDC Special Economic Zone, (formerly Victoria Wave)  
Brgy. 186, Caloocan City

T: (02) 8939-5893

Validity: February 22, 2024 to February 22, 2027

## WALL PANEL/ MATERIAL

### STARBOARD FOUNDATION INC.

#### *Eco Blocks*

Eco Blocks are created using a mixture of wet cement and shredded plastic laminates, more commonly known as sachets. The plastic increases the thermal insulating property of the blocks. Minimal cement is needed when using Eco Blocks since there are smaller holes, it has a smoother surface and doesn't need to be covered with cement.

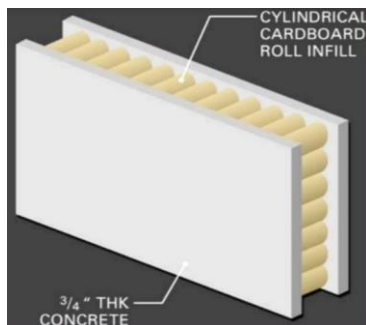


Contact Person: Jel Mellen B. Amado  
3rd Floor #24 PTC Building, Argentina St. Cor. Doña Soledad Avenue, Brgy. Don Bosco BLS, Parañaque City  
M: 09175860307  
Validity: November 15, 2021 to November 15, 2024

### SUCCESSFUL GAINS TRADING CORP.

#### *D'ez Blox*

A pre-cast block made up of two wire mesh reinforced mortar mix cement panels of variable thickness and size. In between panels are cylindrical cardboard to give firm wire mesh assembly, add on compression strength, added thermal and acoustic value due to the space between panels, displaced concrete to make the pre-cast lighter. The added wire mesh and the high-grade concrete mix add to a superior strength which surpasses other conventional product.



Contact Person: Arjay Abad  
003 Dr. A Santos Ave., Brgy. San Isidro, Sucat, Parañaque City  
M: 09178991221  
Validity: August 1, 2023 to August 1, 2026

## WALL PANEL/ MATERIAL

**SYU GROUP SYSTECH CORP.**

***Polywall EPS Lightweight Concrete Panel***

Polywall is a lightweight energy saving non-load bearing composite panel, composed of Expanded Polystyrene (EPS), cement, sand, technical additives and calcium silicate board as the face board. Polywall is commonly used as interior and exterior walls as well as perimeter fence. In addition, the panels have a four (4) - hour fire rating hence it can also be used as firewalls.



Contact Person: Micca C. Sze

3C Antonio St., Brgy. Pandayan, Meycauayan,  
Bulacan

M: 8983-2656/09175410508

Validity: June 1, 2023- June 1, 2026

## REINFORCEMENT BAR

### **ARRS CONSTRUCTION MATERIALS TRADING ARSS GFRP Supreme**

Glass Fiber Reinforced Polymer (GFRP) is an advance concrete technology application designed as Steel Replacement and Reinforcement and compliant with ACI 440 Guidelines. Its is a plastic composite with glass fibers arranged in a polymeric matrix to form a strong, extremely light and versatile construction material that has been used for more than a decade in industrialized countries.



Contact Person: Nero Ribates, Owner Sales Head  
Kitikachorn St. Summitville, Putatan, Muntinlupa City, Metro  
Manila

M: 09615521564

Validity: February 22, 2024 to February 22, 2027

### **MAHANAIM CONSULTING AND DEVELOPMENT INC. Armastek Glass Fiber Reinforced Polymer**

Glass Fiber is the one of the most common reinforcing elements used for commercial and industrial composites with its properties such as high strength, flexibility, durability, stability, ligh weight, and resistance to heat, temperature or moisture.



Contact Person: Mary Joy Arro, Sales Officer  
9325 Warehouse Corporate Park Brgy. Malitlit, Sta. Rosa  
City, Laguna

M: 0927-461-6695

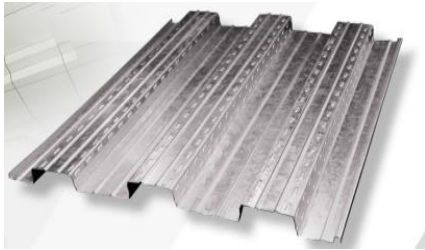
Validity: February 22, 2024 to February 22, 2027

## FLOORING SYSTEM

### **ARCHITECKS METAL SYSTEMS INC.**

#### ***Concrete Floor Steel Decking***

Concrete Floor Steel Decking has a base metal of ASTM 446 cold rolled, 550 MPa (80,000 Psi) yield strength, and has available thicknesses of 0.80mm, 1.00mm, and 1.20mm with zinc coating of Z-27. It can easily and quickly be laid on steel floor beams, serves as a working platform to support construction activities and it is also able to carry freshly poured concrete. This eliminates the need for temporary falseworks and forms. DN Steel Deck Panels will serve as a reinforcement for the concrete making the structure develop much strength and thickness.



Contact Person: Odette Velasco, Marketing & Advertising Supervisor

1338 DN Corporate Center Quezon Ave., Brgy. South Triangle, Quezon City

T: 8367-8335 M: 0917-882-9034

Validity: August 1, 2023 - August 1, 2026



## SEPTIC TANK

### **BESTANK MANUFACTURING CORP.**

#### ***Filtering Septic Tank***

Filtering Septic Tank operates under sound chemical and biochemical engineering principles. The system is arranged in a stage-wise configuration: first through the anaerobic digestive chamber, next through the filtering chamber and finally through the aerobic culturing chamber. Each chamber contributes to a percentage degradation of the organic matter resulting in a high overall degradation. Sedimentation in the anaerobic digestive chamber is promoted by the quiescent condition. The bacterial population in the filtering chamber and the aerobic culturing chamber are attached to the surface and do not go out with the effluent, thus maintaining a high constant microbial density for the degradation.



Contact Person: George Ainsley Tai/General Manager  
668 San Marino Compound., T Santiago St.  
Brgy. Lingunana, Valenzuela City  
T: 8432-1000 local 674

Validity: June 23, 2021 to June 23, 2024

### **ECO STORAGE SOLUTIONS INC.**

#### ***Multitank Plastic Septic Tank***

Multitank Plastic Septic Tank is made from recycled plastic which is tested and proven to be environment friendly and could last for 20 to 30 years in normal condition. The tank is composed of a 3-Chamber system and has been proven effective through the BOD and COD laboratory test conducted on our existing installations. The main tank is connected with a rubber seal locked through several bolts and nuts ensuring that the MultiTank Plastic Septic Tank is leaked free, durable and proven to purify the sewage water prior to its disposal on the sewer line.



Contact Person: Mr. Monte Carlo B. Chua, Technical  
Consultant  
276 Boomtown Industrial Park, Brgy. Tambobong, Bocaue  
Bulacan

M: +639151103856

Validity: June 1, 2023- June 1, 2026



## SEPTIC TANK

### SEJONG PLASTIC MFG. CORP. 3 Chamber Plastic Septic Tank

Plastic Septic Tank made of recycled waste plastic bags and scraps. The raw materials used are 100% polyethylene (PE). This type of Septic Tank is more affordable and durable, ready to set-up and installed, time and labor savings and environment friendly.



Contact Person: Marilou C. Benitez, Managing Head  
UD6 Green Miles Compound, Sta. Rosa 1, Marilao, Bulacan

T (044) 892-0158 M: 09260197339

Validity: February 22, 2024 to February 22, 2027

### YUNHAP PLASTIC CORPORATION Three Chamber Plastic Purifying Septic Tank

The Three Chamber Plastic Purifying Septic Tank is produced using indigenous and recycled plastic materials. This product addresses to the environmental requirements of human waste disposal by insuring that the harmful biological and chemical waste are not allowed to seep into the soil thus preventing ground water contamination and ensures that the effluent is almost coliform free. Unlike concrete septic tanks, the plastic septic tank is flexible and will not crack. This is installed in a very easy procedure with minimum labor and time cost.



Contact Person: Ms. Kyung Hak Jang, CEO

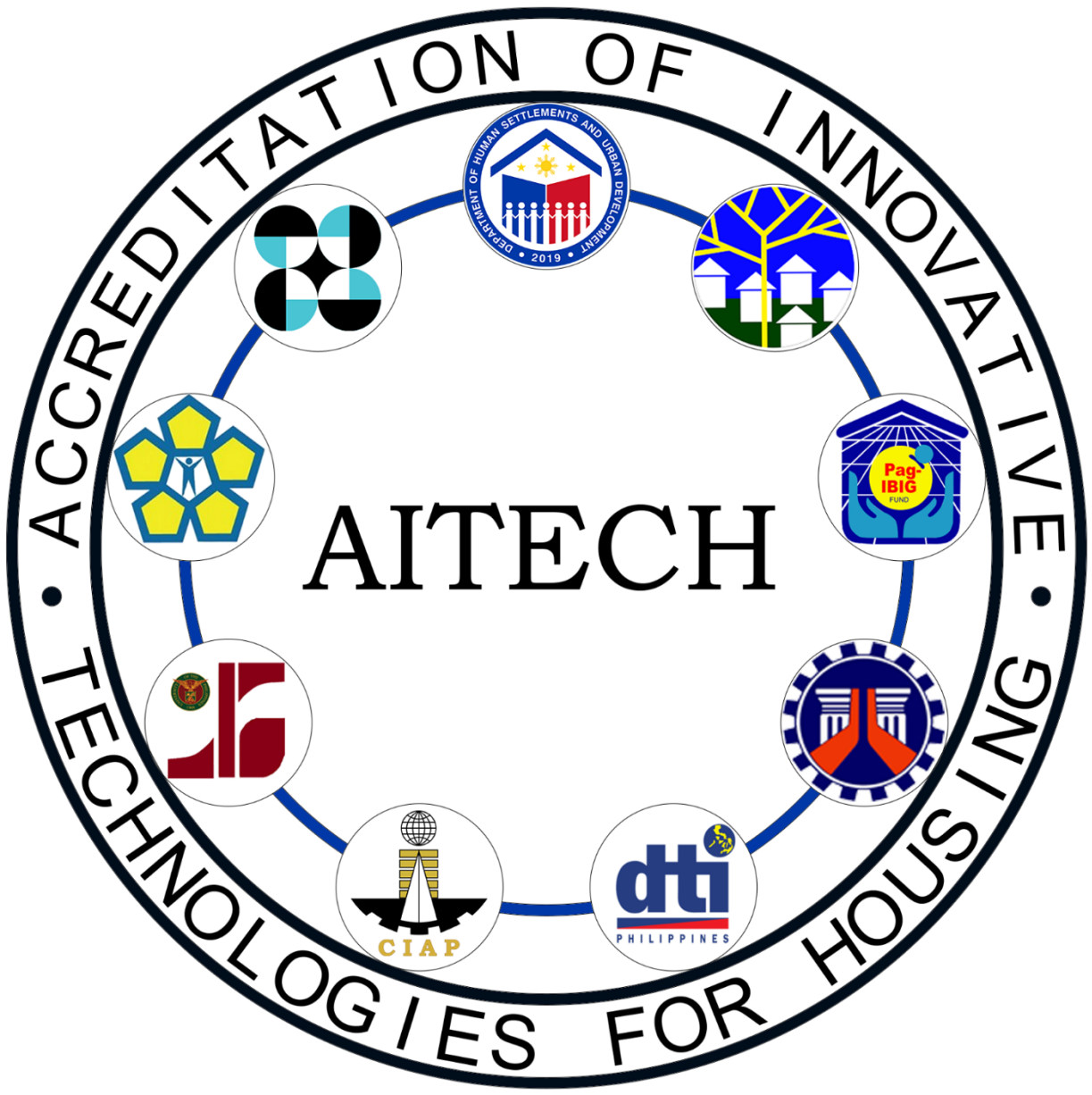
Prk. 10, Ising, Carmen, Davao del Norte

T: (084) 628 4004

Validity: September 7, 2021 to September 7, 2024







**List of Accredited Technologies  
as of March 2024**