

Do-It-Yourself Formworks

Save Millions by replacing your Plywood with Plasform



Improved Plasform Panel System Installation Manual Version 2022





No skilled workers required Prefabricated Formworks



www.fasiformsystem.com



Who are we?

The Formworks Authority

FASI Forms Inc. is a private corporation engaged in sales and rental of formwork and scaffolding systems that aid in faster, safer, and more cost-efficient construction. In addition, we manufacture, design, and provide site supervision work. We are composed of highly experienced design engineers, who have worked on several high-rise structures, infrastructure and low-cost housing projects.

Our founder and President, Mr. Frederick V. Erum, has been in this industry since 1979 and continues to pioneer in introducing innovative formwork systems to contractors in the Philippines, such as aluminum formworks and Plasform.

Mission

To continue evolving new products, services, and businesses to help developers and builders create premium structures by providing the best and most cost-efficient solutions & technologies that yield maximum profitability.

Vision

To be the pioneer in providing innovative formwork and scaffolding products, technologies, and methodologies that aid in the growth and development of the country's economy and construction industry.

What is Plasform?

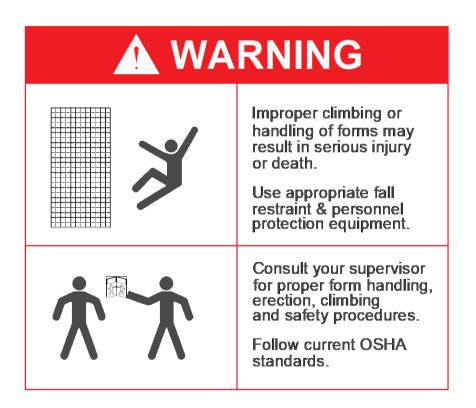
Plasform is a plastic formwork that can be used over 200 times. It is made out of engineered Polypropylene Plastic (PP) and is a replacement for phenolic plywood. It is a prefabricated formwork system that is versatile and compatible with various types of backing support to construct columns, walls, beams, and slabs.

FASI adopts the policy of continuous improvement, and we reserve the right to modify any design, detail and information without giving prior notice.

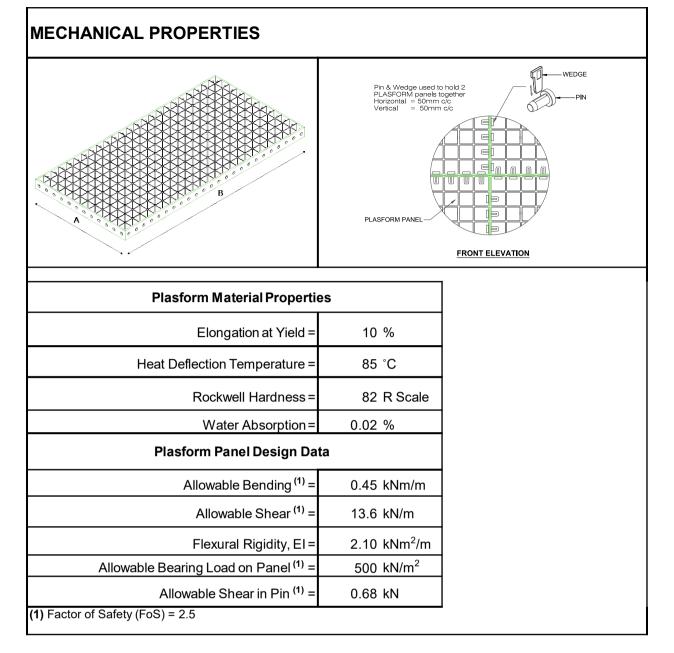


🕂 SAFETY ALERT GENERAL NOTES

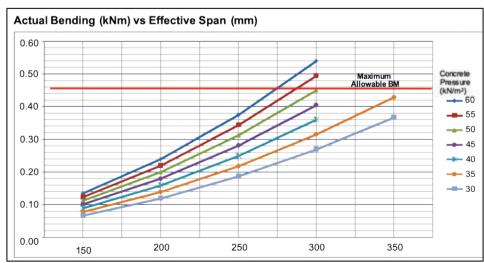
- 1. IT IS USER'S RESPONSIBILITY TO ENSURE THAT ALL SCAFFOLDING AND ACCESS TO THE FORMS COMPLIES WITH ALL APPLICABLE LAWS REGULATIONS, AND CODES, INCLUDING THE CURRENT STANDARD SPECIFICATIONS.
- 2. SCAFFOLD LOCATIONS SHOWN ON PLASFORM DRAWINGS ARE TYPICAL AND ONLY FOR ILLUSTRATION. ACTUAL LOCATIONS WILL VARY WITH JOB CONDITIONS AND ARE THE RESPONSIBILITY OF THE USER.
- 3. USER MUST INSPECT ALL SCAFFOLDING FOR DAMAGE. DAMAGED SCAFFOLDING MUST BE DISCARDED AND NOT USED.
- 4. USERS SHOULD NOT CLIMB FORMS WITHOUT FALL ARREST SYSTEMS CONFORMING TO CURRENT STANDARDS.
- 5. ALL PLASFORM PANEL ACCESSORIES SHALL BE USED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PROCEDURE. ACCESSORIES SHALL NOT BE ALTERED IN THE FIELD. PLASFORM PANEL AND THEIR COMPONENTS, MANUFACTURED BY DIFFERENT COMPANIES SHALL NOT BE INTERMIXED.



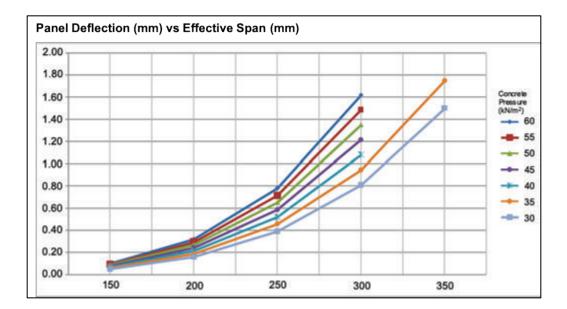




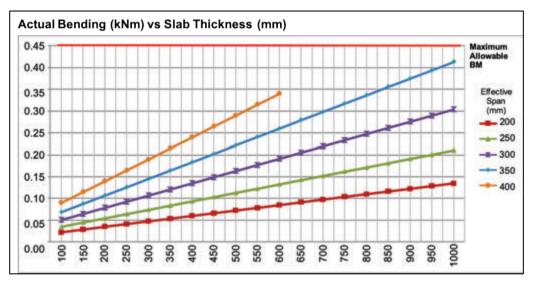
Wall Design Data

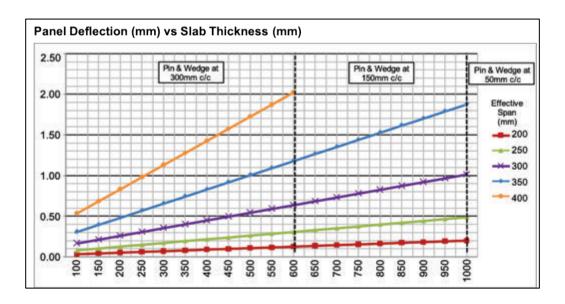






Soffit Design Data







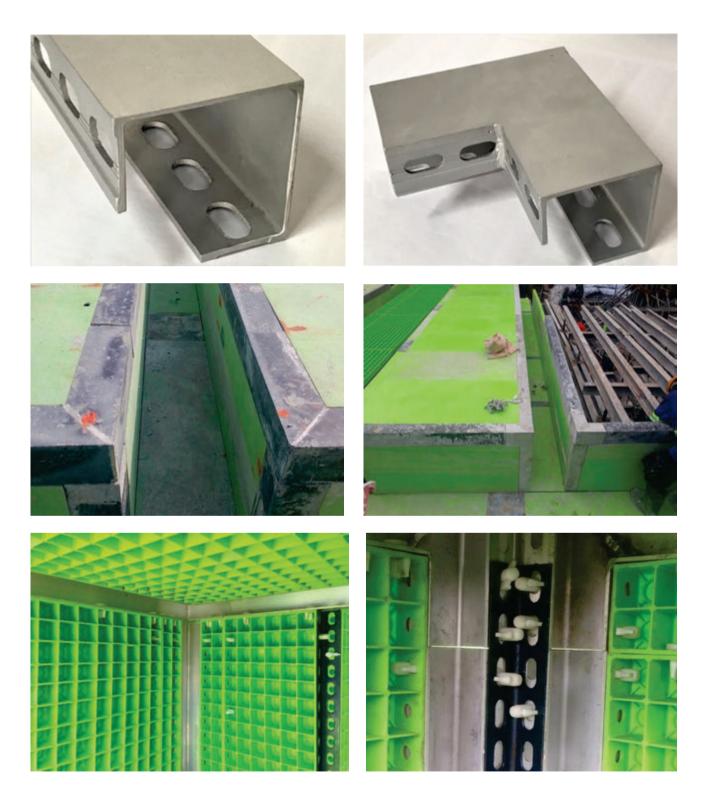
Clamping Single Wailing Clamp using Tapping Screw on Screw Hole of Plasform





Slab Assembly with Internal Corner – Standard Scheme

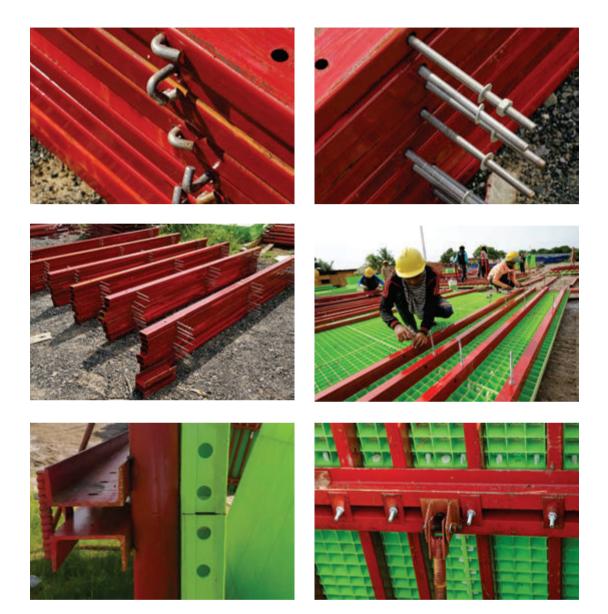
(see alternative solution on page 17)





6

Clamping Single Wailing Clamp using J-Bolt



Available sizes:

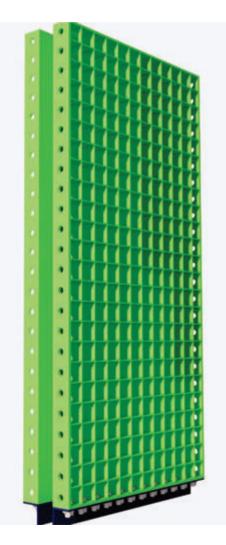
Width (mm)	Length (mm)	Weight (kg)
600	1200	7.60
300	1200	3.90
250	1200	3.20
200	1200	2.60
150	1200	1.50
100	1200	1.50



Bottom Cover

For protection of Plasform and easy stripping for column and wall.







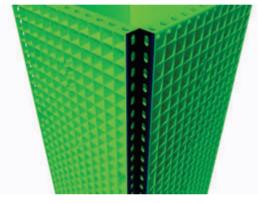
Available sizes
600mm
300mm
250mm
150mm
100mm



External Corner

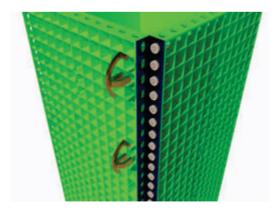


STEP 1



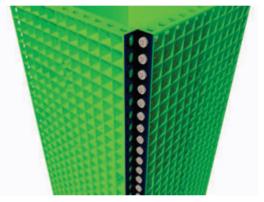
Align external corner angle to two perpendicular panel





Insert P-clamp and push the P-clamp tail so it is secured on the other side

STEP 2



Insert pin and secure tightly with wedge, on one site



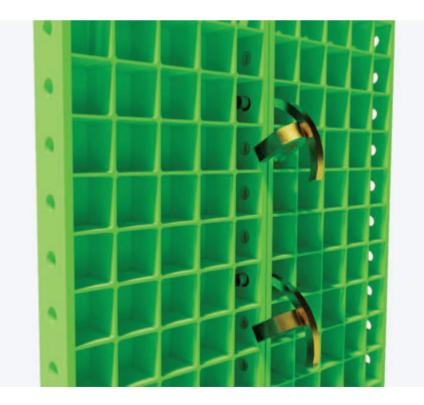


Jointing of Plasform Panels

1. Connect the short edge of Plasform panel with pin and wedge at 50C/C.



2. Connect the long edge of Plasform panel with p-clamp at 200C/C.





Manual Handling Wall Form Set





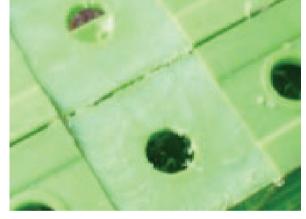
Fabrication of Notching for Flat Ties



Version 3 Panel



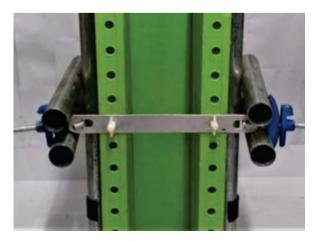
Use rotor for notching of Plasform



Notching of 53mm length and depth of 2mm



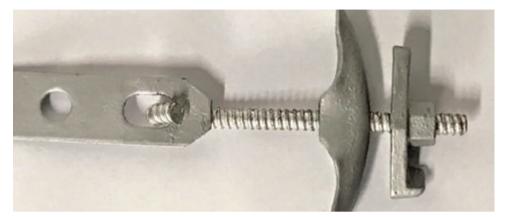
Plasform with flat ties



Full assembly using flat ties



Manual Handling Wallform Set for Housing - Exterior Wall/Shearwall/Corewall/ Partition Wall/Beamsides Using Flat Ties



Double Wailing Clamp hooked on each end of flat tie



Plasform panel with notching



Full Assembly of manual handling wall form using flat tie



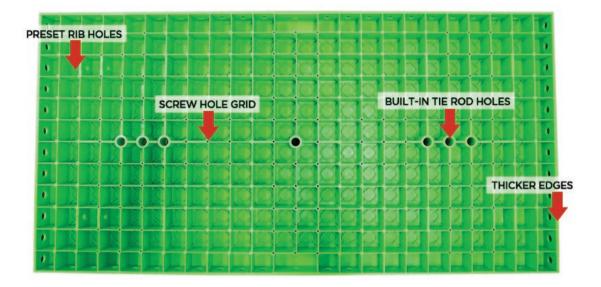
Manual Handling Wall Form Set using Flat Ties

Flat ties can either be a recoverable or consumable item.

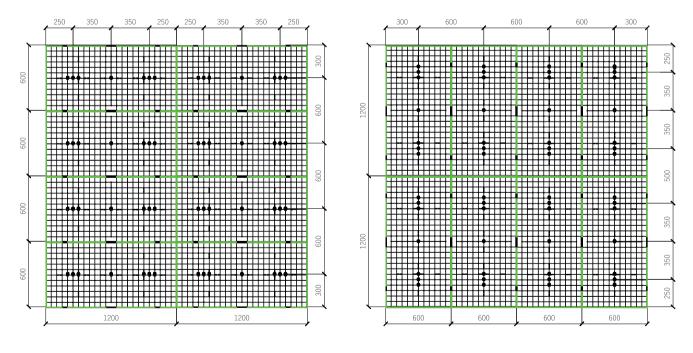




Wall Panel Assembly using Tie Rod Hole of 600x1200 Panel Version 4



Version 4 Panel

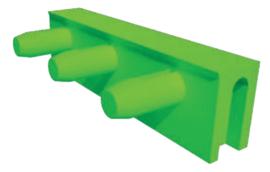


HORIZONTAL LAYOUT

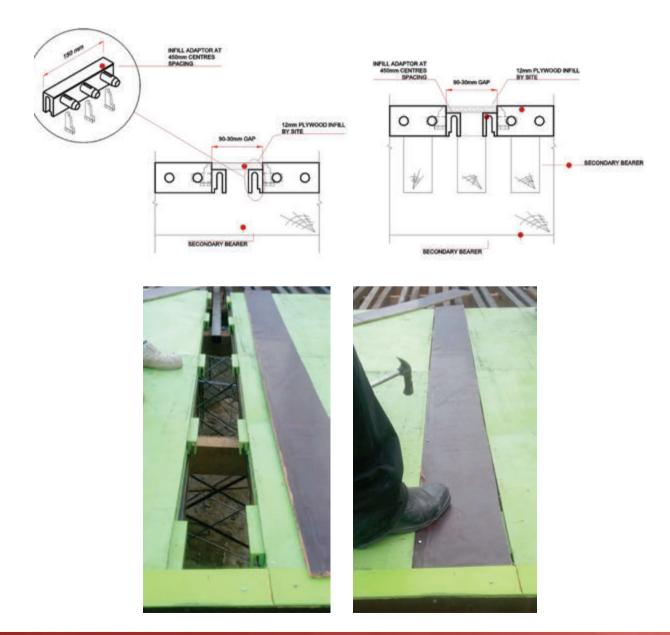
VERTICAL LAYOUT



Infill Adaptor for Connection of Plywood to fill the gaps



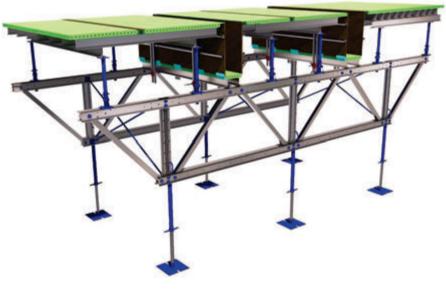
Ply-Infill Adaptor



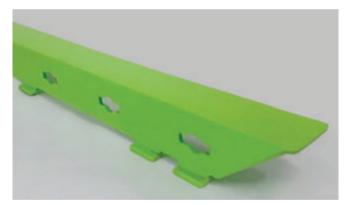


Alternative Solution : Beam and Slab Corner

Slab connector, beam latch and in-fill adaptor for beam and slab formwork

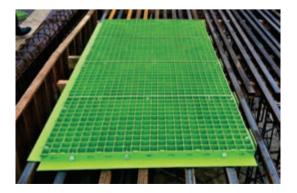


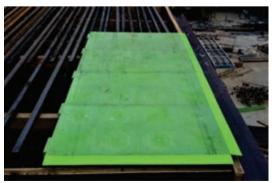
No internal corner (aluminum) beamsides to 18mm plywood use beam latch





Slab connector







Post Head

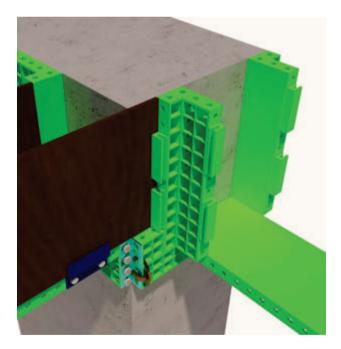
as permanent shoring for concentrate curing - 14 to 21 days before stripping





Beamside Latch





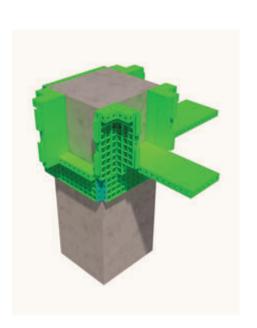




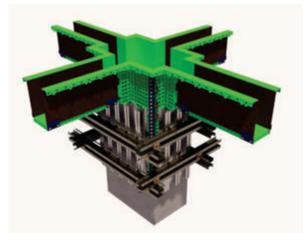
3D Pre-Assembled Corner

Designed to replace consumable plywood around the corners in columns, beams and slabs.

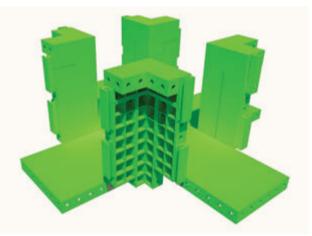
The only 3D Corner in the world.







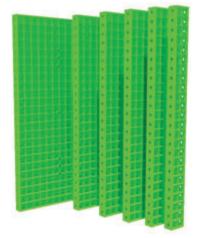
Column, Girder and Intermediate Beam Intersection



Girder and Intermediate **Beam Intersection**



Plasform Individual Product Parts



Plasform Panel

Width (mm)	Length (mm)	Weight (kg)
600	1200	7.60
300	1200	3.90
250	1200	3.20
200	1200	2.60
150	1200	1.50
100	1200	1.50





Width (mm)	Length (mm)	Weight (kg)
-	-	0.01

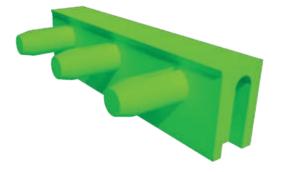


P-Clamp

Width (mm)	Length (mm)	Weight (kg)
-	-	0.36

Infill Adaptor

Width (mm)	Length (mm)	Weight (kg)
-	150	.11







External Corner

Size (mm)	Length (mm)	Weight (kg)
53 x 53	1200	2.35
53 x 78	1200	3.45
53 x 83	1200	3.68
53 x 93	1200	4.12
53 x 128	1200	5.68

Post Head

Size (mm)	Length (mm)	Weight (kg)
400	100	2.78
300	100	2.50
250	100	2.08
200	100	1.66
150	100	1.25

Internal Corner

Size (mm)	Length (mm)	Weight (kg)
100 x 125	1200	3.10
100 x 125	2400	6.20
100 x 125	3000	7.75

Internal Soffit Corner

Size (mm)	Length (mm)	Weight (kg)
100 x 125	400	1.03

Slab Connector

Size (mm)	Length (mm)	Weight (kg)
75 x 50	1200	0.56
95 x 50	1200	0.70













Double Wailing Clamp

Width (mm)	Length (mm)	Weight (kg)
-	-	0.42



Single Wailing Clamp

Width (mm)	Length (mm)	Weight (kg)
-	-	0.20



Plate Clamp

Width (mm)	Length (mm)	Weight (kg)
-	-	0.10



Tappered Cone

Size (mm)	Length (mm)	Weight (kg)
	150	0.14
	125	0.12
-	100	0.10





Flat Ties

Thick (mm)	Length (mm)	Weight (kg)
3	400	0.01
3	500	0.01

PSH50 Bracket

Width (mm)	Length (mm)	Weight (kg)
-	-	0.06

Wide Head Self Tapping Screw

Diameter (mm)	Length (mm)	Weight (kg)
5	800	0.02

J-bolt with nut and washer

Diameter (mm)	Length (mm)	Weight (kg)
6	100	0.01

Cap for Tie Rod Hole

Diameter (mm)	Length (mm)	Weight (kg)
18	15	0.001



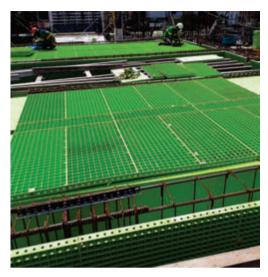








Various Projects and Repeated Orders from Clients

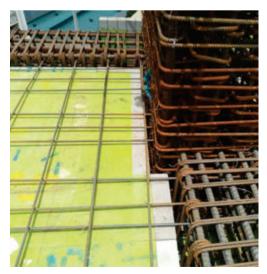
















































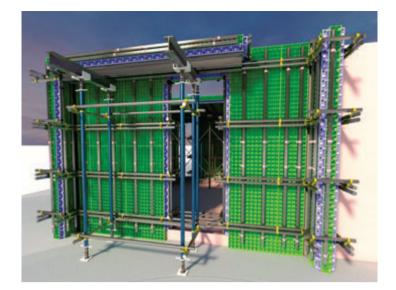






Ongoing Housing Project Using Plasform

Monolithic Construction of Millie Case Project by Servequest Inc., Muntinlupa City





Foundation Works



Erection of wall on ground slab



Installation of flat ties to hold the forms on both sides



Continuation of installation of steel mat for Wall





MEPFS are Installed. Foam is wrapped around the flat ties for easy pull out & reuse



122 Aluminum Beam used for joist for Slab Forms installation



Rebar of wall and slab and MEPFS ready for concrete pouring



Monolithic concrete pouring of wall and slab



Two-sided wall fully installed and aligned



Support of wall and slab with door openings



Schedule of concrete pouring for monolithic construction



Starter panel is in place for the next floor's wall panels installation. Smooth concrete finish is achieved upon pouring of exterior walls.



MEPFS, windows, doors, and ACU openings are all achieved in one-time pouring.



Concrete finish is achieved and Flat Ties can be easily removed with help of Foam Wrap.



Post Heads remain in place undisturbed for 14 days to allow concrete to cure as per 28 day concrete specifications.



Blockouts for openings



Smooth concrete finish is achieved and can be finished with skim coating.



Wall and slab formworks with MEPFS



Finishing with skim coating



4722 Imus St., Barangay Olympia, Makati City, Metro Manila, Philippines 1207

🖂 info@fasiformsystem.com

+(632)-8519-9901

💮 www.fasiformsystem.com

