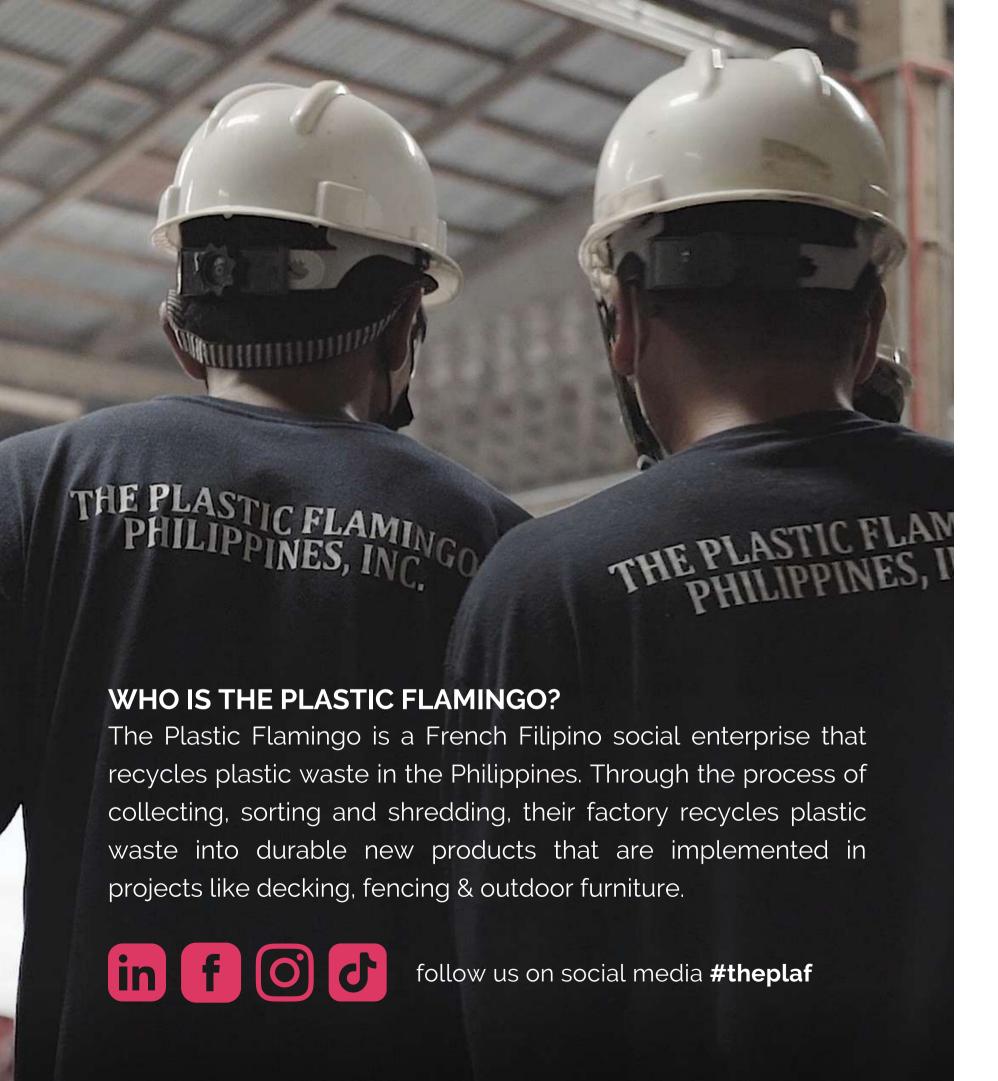
The Plastic Flamingo. PLASTIC RECYCLERS INTRODUCING THE TRANSITIONAL SHELTER STARTER-KIT CONSTRUCTION MATERIALS MADE FROM PLASTIC WASTE



PLAF PRODUCTS

The Plaf has built their own shelter prototype to further test their products and see how plastic waste could potentially serve as a repair and rebuild material put to use in disaster struck areas where local material has become damaged and unusable. The Plaf offers a range of various construction materials that are highly durable, require low maintenance and are termite proof, thus making them suitable to rebuild after a storm and become part of the permanent housing over time.

PLAF'S MISSION

While focusing on their mission to tackle marine plastic pollution, they aim to do so through maximum social impact by hiring and training local forces from low income households. They are actively inspiring more changemakers to join their mission by giving countless webinars, numerous beach clean ups and children's workshops, spreading awareness & teaching our future generation on how to change our polluting habits.





Scan QR to visit our **website** or reach us at **hello**@theplaf.com

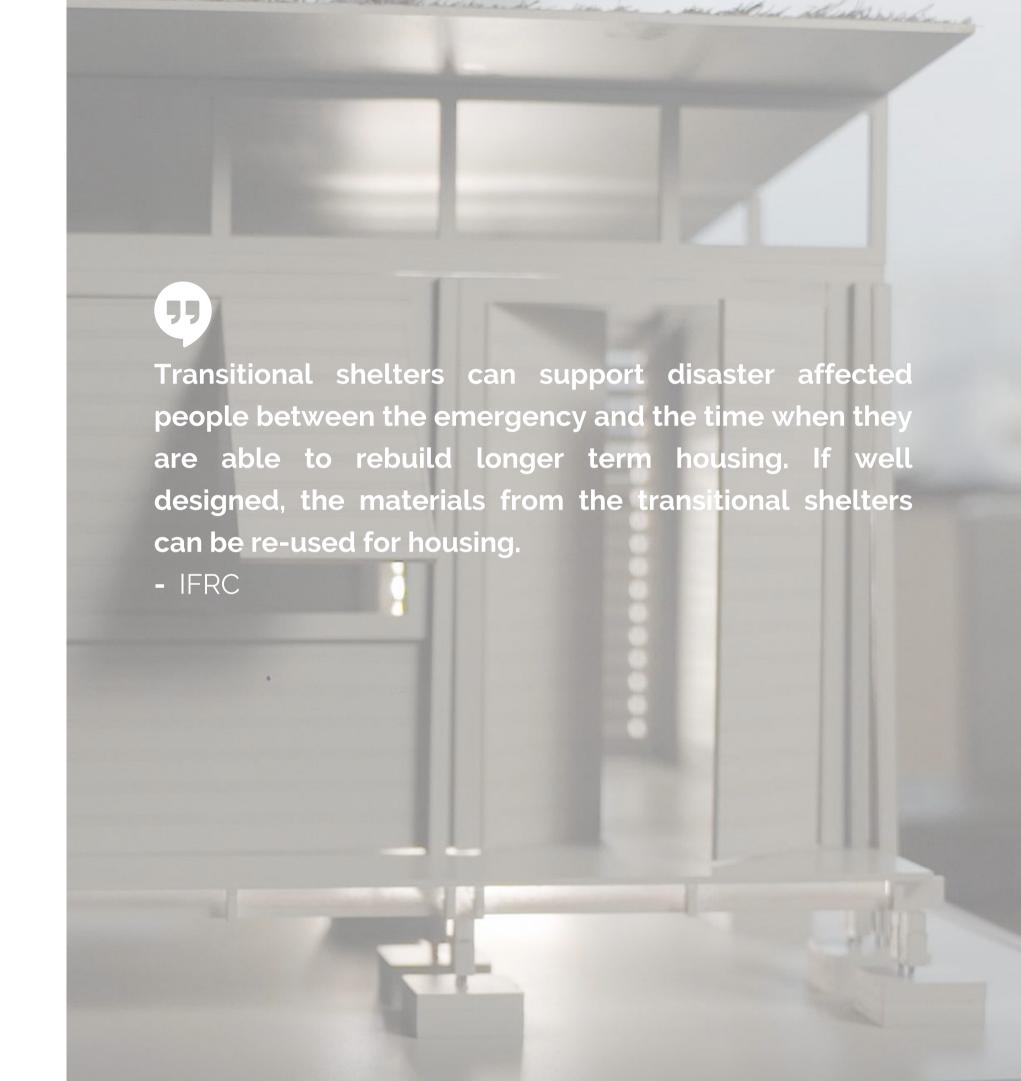


AN INCREMENTAL PROCESS

A transitional shelter is part of an incremental process which supports families affected by natural disasters. The local community is better able to recover, maintain, repair and extend their dwellings in the future when they fully take part in the process from the beginning. Locally appropriate solutions usually work best and therefore construction methods need to be familiar to those affected, requiring skills and tools that they have access to. (source: global shelter cluster)

MADE FROM PLASTIC WASTE

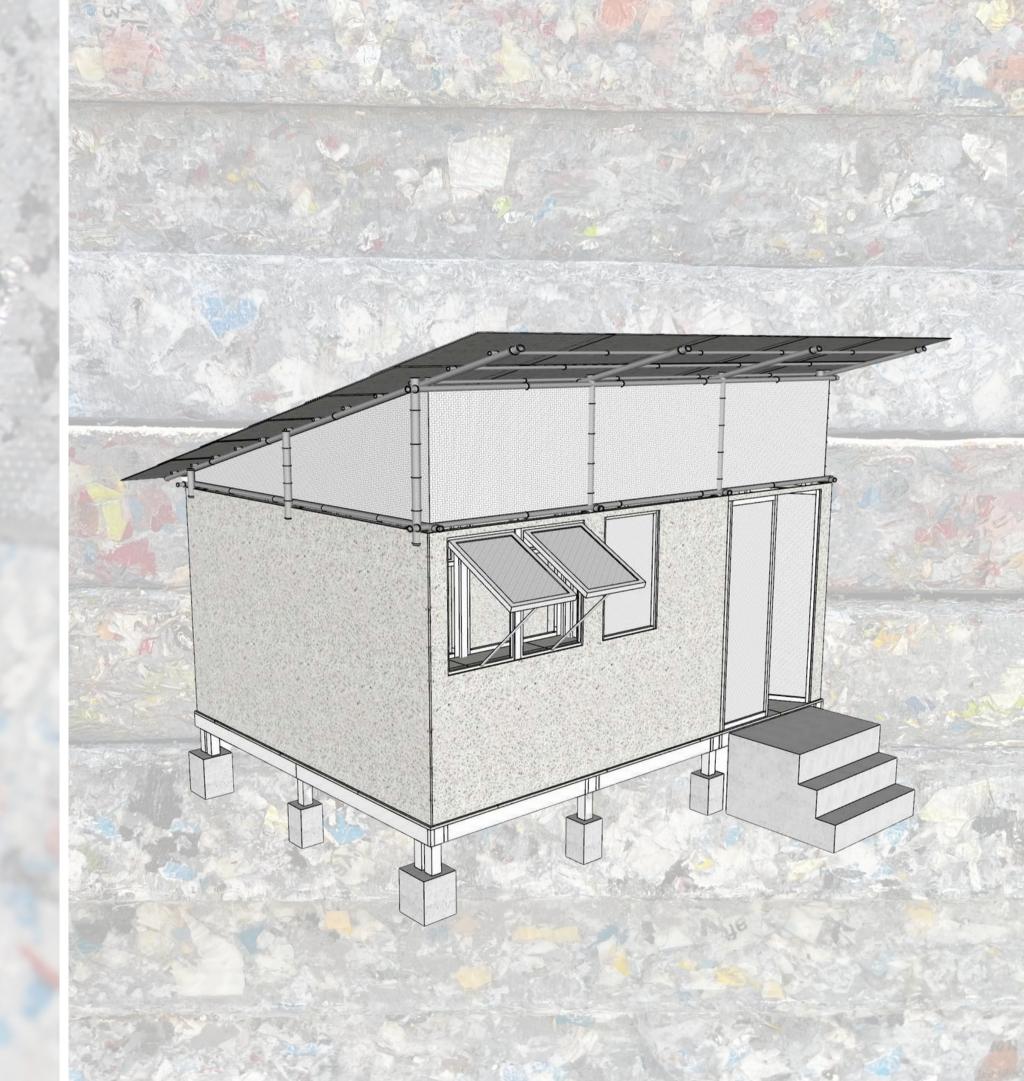
The recycled Plaf construction materials can be implemented in this incremental process. Though it is a new material, it is workable like wood thus easy to work with by the local workforce. It's performance is more favorable however, providing a durable, termite-free and rot-proof product that can last longer compared to local traditionally used materials.





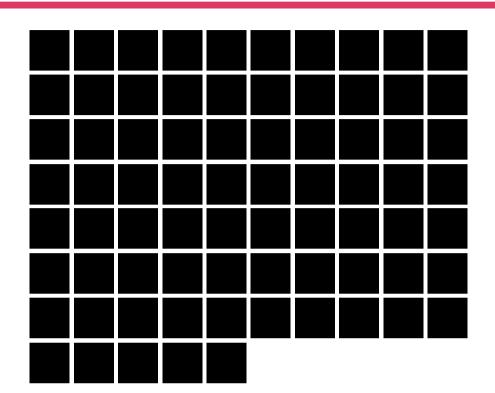
THE PLAF TRANSITIONAL SHELTER DESIGN

The shelter design is a recycled plastic framed structure on a grid of 4.8 x 3.6m. The stability is provided by the corner columns made from reinforced plastic posts tied together by horizontal planks at ground level. Secondary non-structural elements include: posts, battens and boards made from plastic waste. The columns are embedded into concrete foundations that sit directly on the ground. The height of the elevation and the highest point of the ridge of the roof differs per site, since it is dependent on numerous specifications like flood levels, local architecture & expertise. The roof structure shall be built with locally available materials, like for instance bamboo. The cladding is made with 10mm recycled plastic boards, painted, with a slight overhang to provide for some outdoor shade.

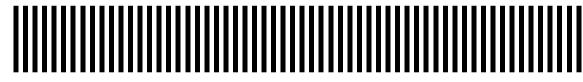


Roof cover made from recycled plastic boards, 10mm edged & painted Walls panels made from recycled plastic battens, covered with 16mm thick boards • Floor **d**ecking with 22mm boards on top of a floor frame made from recycled plastic planks Grid primary structure of columns made of posts & reinforced posts on a grid of 3.6 x 4.8m

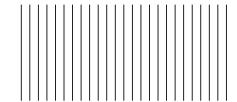
PLAF SHELTER STARTER-KIT



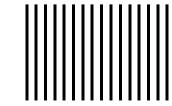
75 boards



60 planks



25 dos x dos



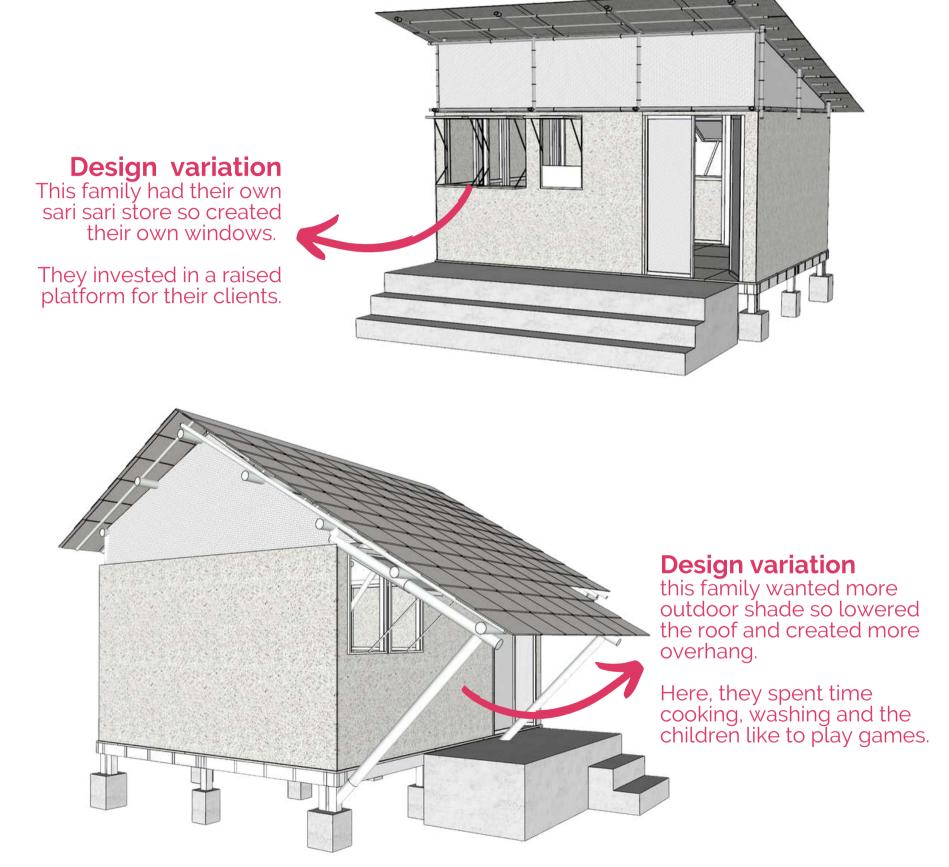
15 posts



WHY BUY OUR SHELTER-KIT?

The Plaf shelter-kit forms a starting base compiled of various construction materials made from plastic waste that are needed to build one shelter for a **family of 5**. Part of this transitional approach is to make sure everyone is involved in the process. Local governments, organizations and, above all, local communities can sit down and draw out their plans based on this existing grid.

Local building techniques and specifics of the site (like possible flood levels, wind & sun direction) need to be incorporated, to make sure this transitional shelter can eventually become a permanent and loving home. With this starter-kit, primary essential and durable building materials are provided, yet each home can have its own character, that has been **co-designed by each house owner**.





SUMMARY

Transitional shelter of 3.6m x 4.8m for post disaster

communities (for a 5 member household)

| What Starter-kit with recycled plastic products

| Time to build 5 to 10 days with 5 people

| Life span 10+ years

| Price 3,000\$ per starter-kit| Recycle Plastic 2.2 tons per starter-kit

Included primary structure, wall panels, floor frame with

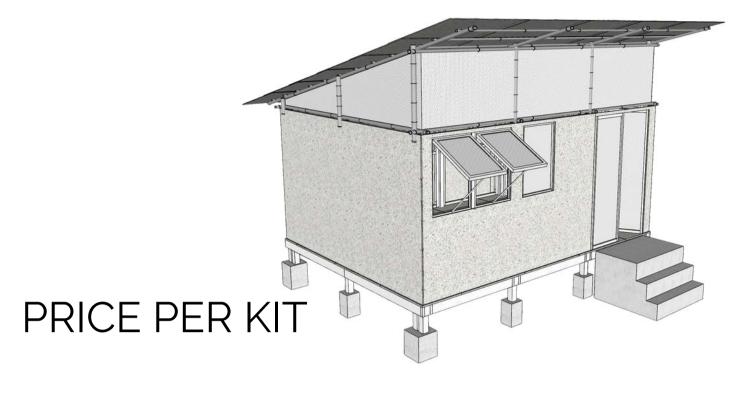
decking and roof cover

| Excluded Locally procured materials (roof frame, footings,

window- and door panels, equipment & workforce

| Total costs | Approximately 5,000\$ per shelter

(roughly 300\$/m²)



Roof cover

30 pcs boards, 10mm, interlocking, painted & edged

Walls

25 pcs dosxdos, 5x5x300cm

25 pcs boards, 16mm, natural finish

Structure

8 pcs reinforced posts, 9x9x300cm

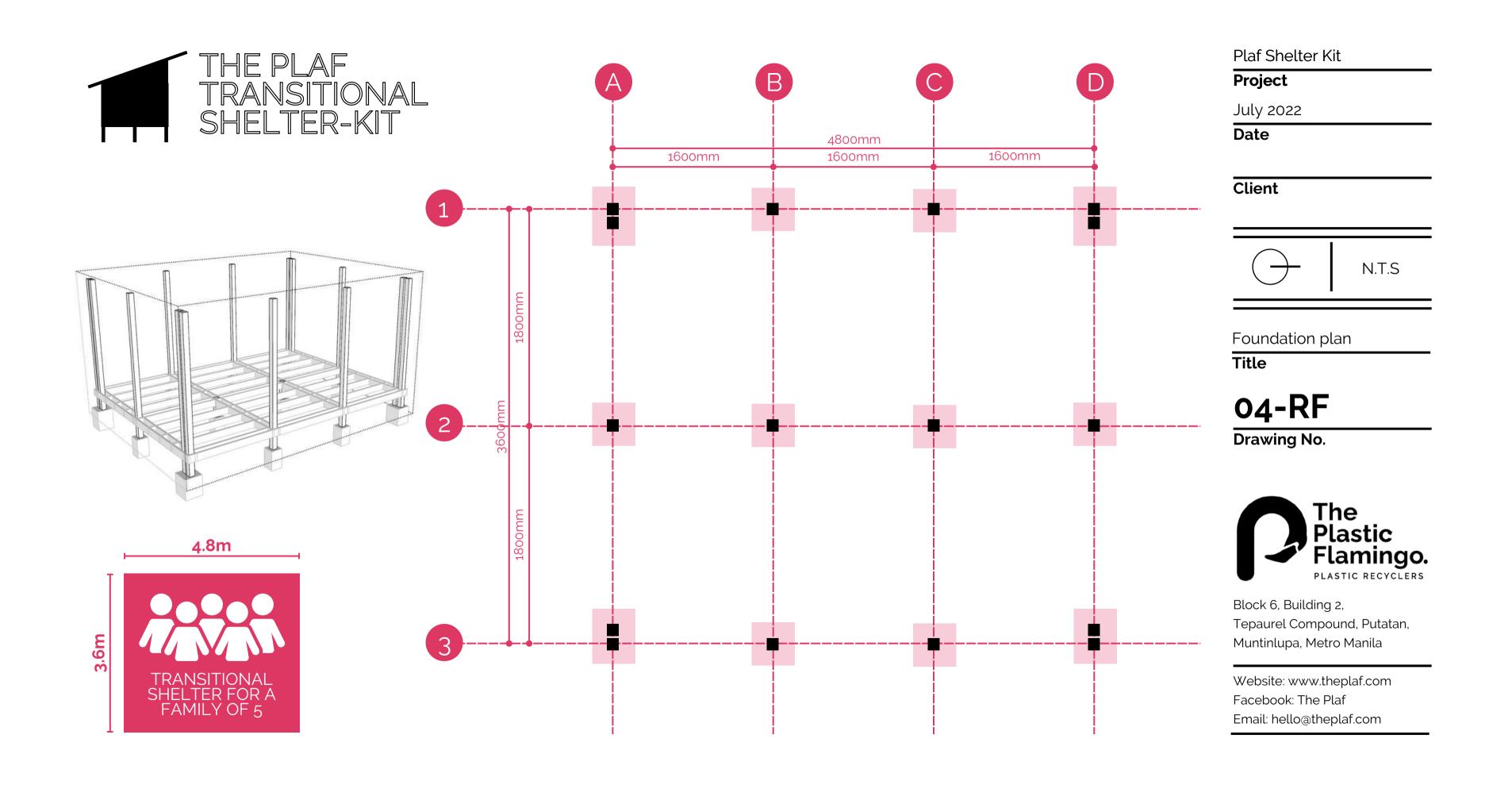
7 pcs posts, 9x9x300cm

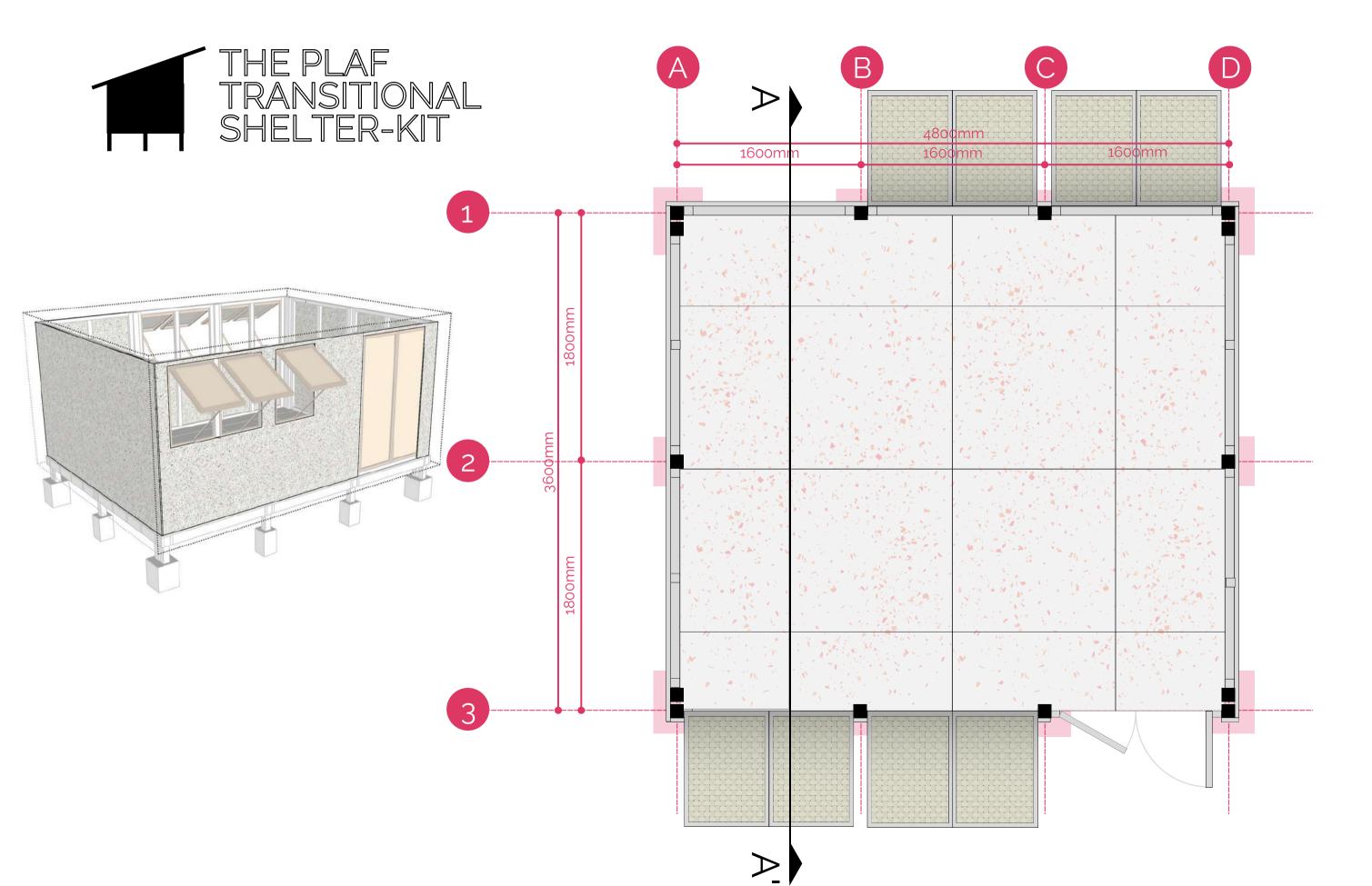
Flooring

20 pcs boards, 22mm

60 pcs planks, 3.5x13x200cm

3,000\$





Plaf Shelter Kit

Project

July 2022

Date

Client



N.T.S

Floor plan

Title

04-RF

Drawing No.



Block 6, Building 2, Tepaurel Compound, Putatan, Muntinlupa, Metro Manila



Plaf Shelter Kit

Project

July 2022

Date

Client



N.T.S

Section AA'

Title

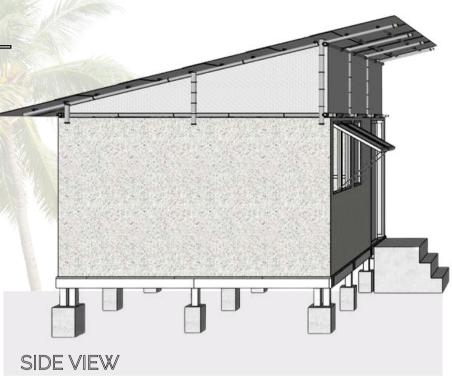
04-RF

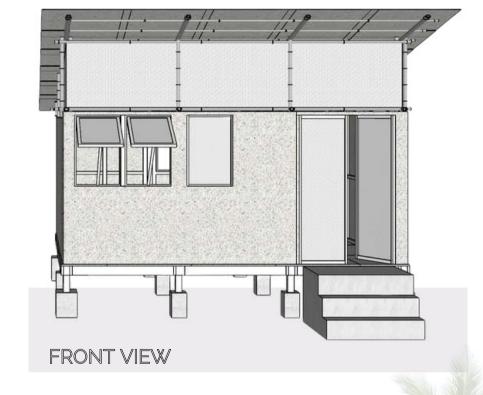
Drawing No.



Block 6, Building 2, Tepaurel Compound, Putatan, Muntinlupa, Metro Manila









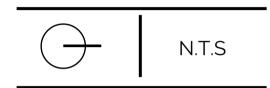


Project

July 2022

Date

Client



Elevations

Title

04-RF

Drawing No.

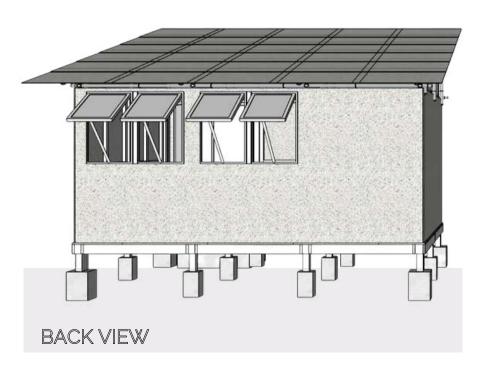


Block 6, Building 2, Tepaurel Compound, Putatan, Muntinlupa, Metro Manila

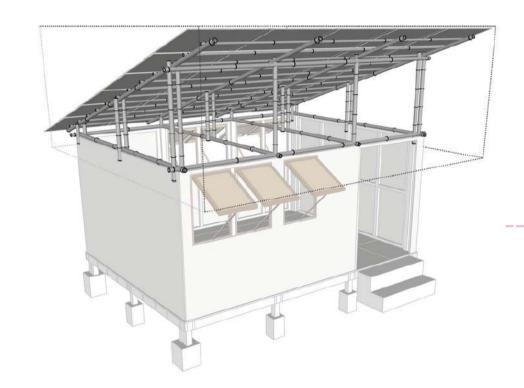
Website: www.theplaf.com
Facebook: The Plaf
Email: hello@theplaf.com



Scan QR to visit our **website** and check out our first prototype!







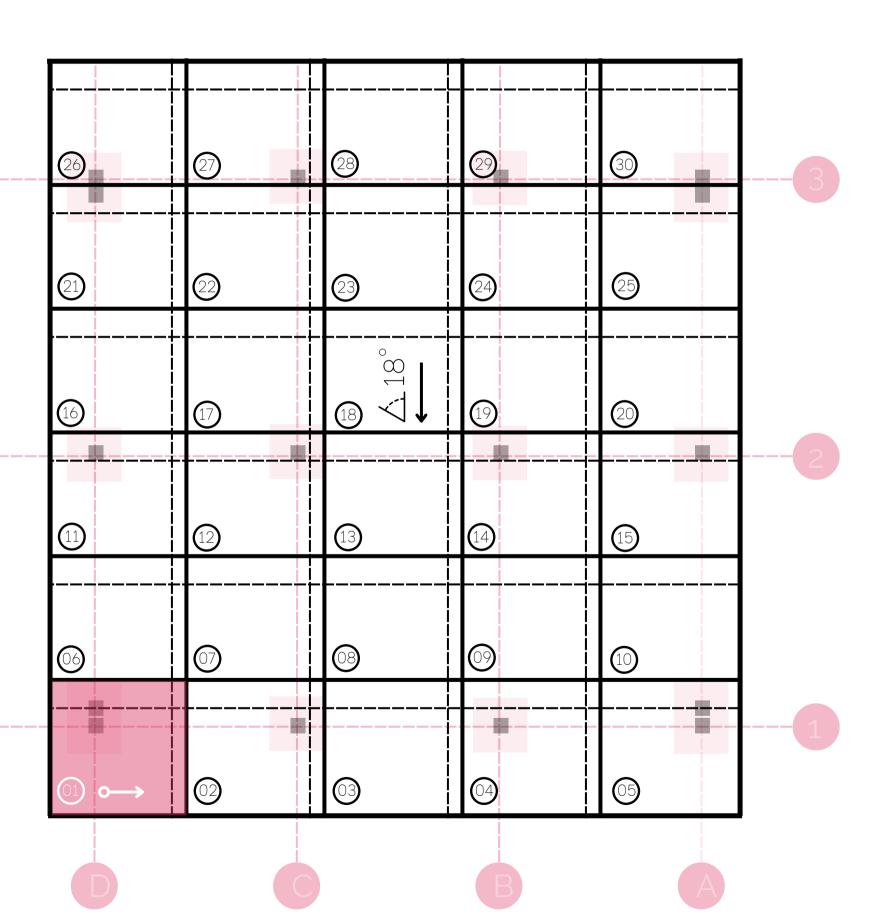
01 06 01 06 21 26 LEFT ROOF PANEL

MID PANEL

02 00 12 10 02 07 04 09 14 19 24 29 05 10 15 20 25 30 RIGHT ROOF PANEL

03 03 03 03 23 23

CENTER PANEL



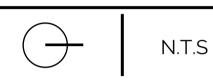
Plaf Shelter Kit

Project

July 2022

Date

Client



Roof plan

Title

04-RF

Drawing No.

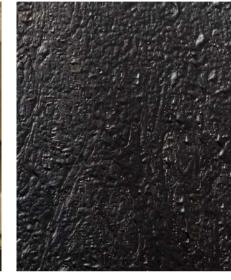


Block 6, Building 2, Tepaurel Compound, Putatan, Muntinlupa, Metro Manila















reinforced posts 90x90x300cm







planks

35x130x200cm

dos x dos 5x50x300cm

boards | 10mm | 16mm | 22mm 120x120cm

Plaf Shelter Kit

Project

July 2022

Date

Client



N.T.S

Material overview

Title

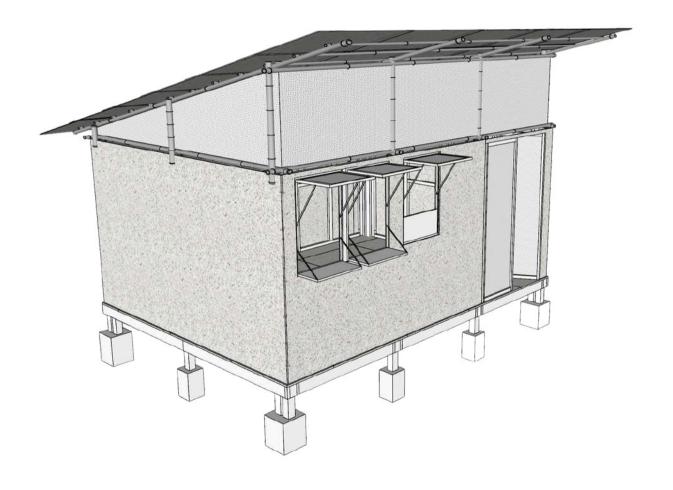
05-MO

Drawing No.



Block 6, Building 2, Tepaurel Compound, Putatan, Muntinlupa, Metro Manila

THE PLAF TRANSITIONAL SHELTER-KIT



*Unit prices of the PLAF products are as of July 2022 and are subject to change. Unit prices for the items not included in the kit are rough estimates only.

PLAF Starter-Kit*		Product type	Units	Unit price	Price (PHP)	Price (USD)
1	Columns 9x9cm, reinforced*	Post 9x9x300cm	8	₱3,000.00	₱24,000.00	
2	Floor frame	Plank 13x3.5x200cm	60	₱1,000.00	₱60,000.00	
3	Columns 9x9cm, stiffening structure	Post 9x9x300cm	7	₱2,000.00	₱14,000.00	
4	Fassade 16mm	Board 10mm 120x120cm	25	₱500.00	₱12,500.00	
5	Wall panels to support fassade	dos x dos 5x5x300cm	25	₱1,000.00	₱25,000.00	
6	Decking 22mm	Board 22mm 120x120cm	20	₱600.00	₱12,000.00	
7	Roof tiles	Board 16mm 120x120cm	30	₱400.00	₱12,000.00	
8	Treatments & Finishing (rooftiles)	n.a.*	30	₱250.00	₱7,500.00	
Subtotal starter kit ₱167,00						\$3,006.00
				Subtotat Starter Kit	P107,000.00	\$3,000.00
Items	not included in the PLAF st	arter-kit*		Subtotat Starter Rit	F107,000.00	\$3,000.00
Items 9	not included in the PLAF sta	arter-kit*	1	₱12,000.00	₱12,000.00	\$3,000.00
	T	arter-kit*	1 1			\$3,000.00
9	reinforced concrete footings	arter-kit*		₱12,000.00	₱12,000.00	\$3,000.00
9	reinforced concrete footings concrete entry steps Miscellanous (bolts, metal	arter-kit*	1	₱12,000.00 ₱2,500.00	₱12,000.00 ₱2,500.00	\$3,000.00
9 10 11	reinforced concrete footings concrete entry steps Miscellanous (bolts, metal brackets)	arter-kit*	1	₱12,000.00 ₱2,500.00 ₱7,000.00	₱12,000.00 ₱2,500.00 ₱7,000.00	\$3,000.00
9 10 11	reinforced concrete footings concrete entry steps Miscellanous (bolts, metal brackets) Bamboo/wood for roof structure	arter-kit*	1 1 1	₱12,000.00 ₱2,500.00 ₱7,000.00 ₱15,500.00	₱12,000.00 ₱2,500.00 ₱7,000.00	\$3,000.00
9 10 11 12 13	reinforced concrete footings concrete entry steps Miscellanous (bolts, metal brackets) Bamboo/wood for roof structure Doors & windows (woven bamboo)	arter-kit*	1 1 1 1	₱12,000.00 ₱2,500.00 ₱7,000.00 ₱15,500.00 ₱5,500.00	₱12,000.00 ₱2,500.00 ₱7,000.00 ₱15,500.00	\$3,000.00
9 10 11 12 13 14	reinforced concrete footings concrete entry steps Miscellanous (bolts, metal brackets) Bamboo/wood for roof structure Doors & windows (woven bamboo) mosquito nets & cover roof frame	arter-kit*	1 1 1 1	₱12,000.00 ₱2,500.00 ₱7,000.00 ₱15,500.00 ₱3,000.00	₱12,000.00 ₱2,500.00 ₱7,000.00 ₱15,500.00 ₱5,500.00	\$3,000.00
9 10 11 12 13 14 15	reinforced concrete footings concrete entry steps Miscellanous (bolts, metal brackets) Bamboo/wood for roof structure Doors & windows (woven bamboo) mosquito nets & cover roof frame Scaffolding	arter-kit*	1 1 1 1 1	₱12,000.00 ₱2,500.00 ₱7,000.00 ₱15,500.00 ₱3,000.00 ₱3,000.00	₱12,000.00 ₱2,500.00 ₱7,000.00 ₱15,500.00 ₱3,000.00 ₱3,000.00	\$3,000.00



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The Plastic Flamingo Inc.

Block 6, Building 2, Tepaurel Compound,

Putatan, Muntinlupa, Metro Manila

Hours: Mon - Sat, 8am - 5pm

The Plastic Flamingo Inc. strictly abides by IATF Guidelines. We do not accept any walk-in visits and we require all our clients to schedule an appointment ahead of time.





Plaf Shelter Kit

Project

July 2022

Date

Client



Section AA'

Title

04-RF

Drawing No.



N.T.S

Block 6, Building 2, Tepaurel Compound, Putatan, Muntinlupa, Metro Manila