



HOUSEI Smart Home Build System and Products



www.housei.io

HOUSEI has its own manufacturing for the following:



- Structural Insulated Panels (oSIPs, cSIPs, mSIPs) (4.5-12.25", 4X8'-8X24')
- Light Gauge Steel Frames (C90, C140, 2" Truss)
- Wooden Truss (4M in height)
- Glulam (up to 200mm in width, 12M in length)
- Windows (Thermal Brake Aluminum & N.American PVC)
- Stone Coated Metal Tile
- Solar Tile (Serial A, B, C.)



- Standard Structural Insulated Panels (oSIPs, cSIPs, mSIPs)
- Light Gauge Steel Frames (C90,C140, 2" Truss, flat pack)-LGS-FP
- HOUSEI RTA SIPs House Kit Panelized (open panels) ---RTA-SIP-O
- HOUSEI RTA SIPs house Kit Whole wall Panelized (closed Panels)—RTA-SIP-C
- HOUSEI SIPs Modular House (3D boxes) RTA-SIP-Mod
- HOUSEI RTA LGS House Kit (open panel) RTA-LGS-O
- HOUSEI RTA LGS House Kit (closed panel) RTA-LGS-C
- HOUSEI LGS Modular House(3D boxed) RTA-LGS-M
- HOUSEI Hybrid House Kit (mixed of Steel, timber etc, panelized or .) RTA-HYB
- HOUSEI Glulam House kit (precut) RTA-GLU
- HOUSEI Bathroom Pod



HOUSEI Bathroom Pod

HOUSEI House DIY Kit can be used for:

- Residential Villa
- Low rise Apartment house (up to 6 floors, self supporting)
- Tiny House
- Mobile House
- Resort House
- ADU&Granny Flat
- Bathroom Pod
- Small-medium commercial building
- Small-medium warehouse (2000 s.m. or less.)



The designing/engineering ability of HOUSEI in house

- Architect (for house plan) , using software: Sketchup, Chief Architect , AutoCAD, Revit
- Structural Engineer/detailer, using software: HSB CAD, PKPM, 3D3S, SAP 2000, AutoCAD, Scottsdale Steel Design

HOUSEI

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HOUSEI Plan Flexibility

HOUSEI Plan



HOUSEI Ready to Built House Plan
(keep on upgrading)

3rd Party Plan



Third Party Ready to Build House
Plan (e.g. Drummond House Plans)

Customer



Customized House plan by client

Collaboration



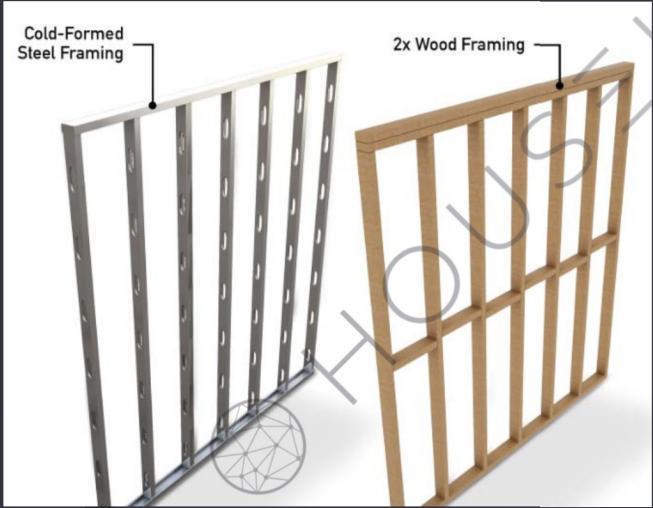
Co-design between HOUSEI &
Client

Open Panel

vs

Closed Panel

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(most can be seen)

Important: if by HQ container, wall height 2.55m
for SIPs, net ceiling can be 76mm more.

Some hided. With windows always

Prefab: Panelized VS Modular



01

Easier Shipment



02

Higher prefab rate

HOUSEI- HouseBy2

- A new concept by HOUSEI
- Help to solve the problem "no house to live" "too expensive/slow/difficult to build"
- Use the latest Industrialized housing technology, can build house by only 2 people (like a couple) by hand Super easy/ fast/energy saving/green/low cost.



How HouseBy2 Works?

- Ready to assemble Precut SIPs (Structural Insulated Panels) : fast, super insulation, easy, light.
- SIPs box—SIPs ceiling, SIPs roof/LGS roof (standard manufacturing ; much easier to work with onsite; straight to be finished)
- Truss roof add on (flexible)
- Less than 80kg for each parts (Can be carried by two person)
- Optimized house plan (prefer small but any plan works)
- Full installation guide, demo instructions, demo house built video, Sips layout
- 3D support

Benefit of HouseBy2

- Greatly save manufacturing cost/time/effort,
- Only need two person to build their own house feasible.
- Less than 80kg for each parts (Can be carried by two person)
- Provide upgrade options by buyer for color, finish
- The house are warm, green, energy sufficient, with option to add solar tiles and home energy storage powerwall made it fully smart home

Example:

40 square meter House, 2 person, 1-2 days for the shell framing, 5 days for Exterior work, 10 days for interior work ,completed constructed house in just 15 days (if 4 person, Time reduced to half to 8 days)

Components Break down

Roofing: Stand Seam Steel/Stone coated Metal/Ashphalt/solar tile

Siding: Vertical Fiber cement/Vinyl/Wood Wiring: No wire chase (Surface running)

Plumbing: reserve the space.

Interior: ceiling: wood; wall: drywall/fast installed panel

HouseBy2

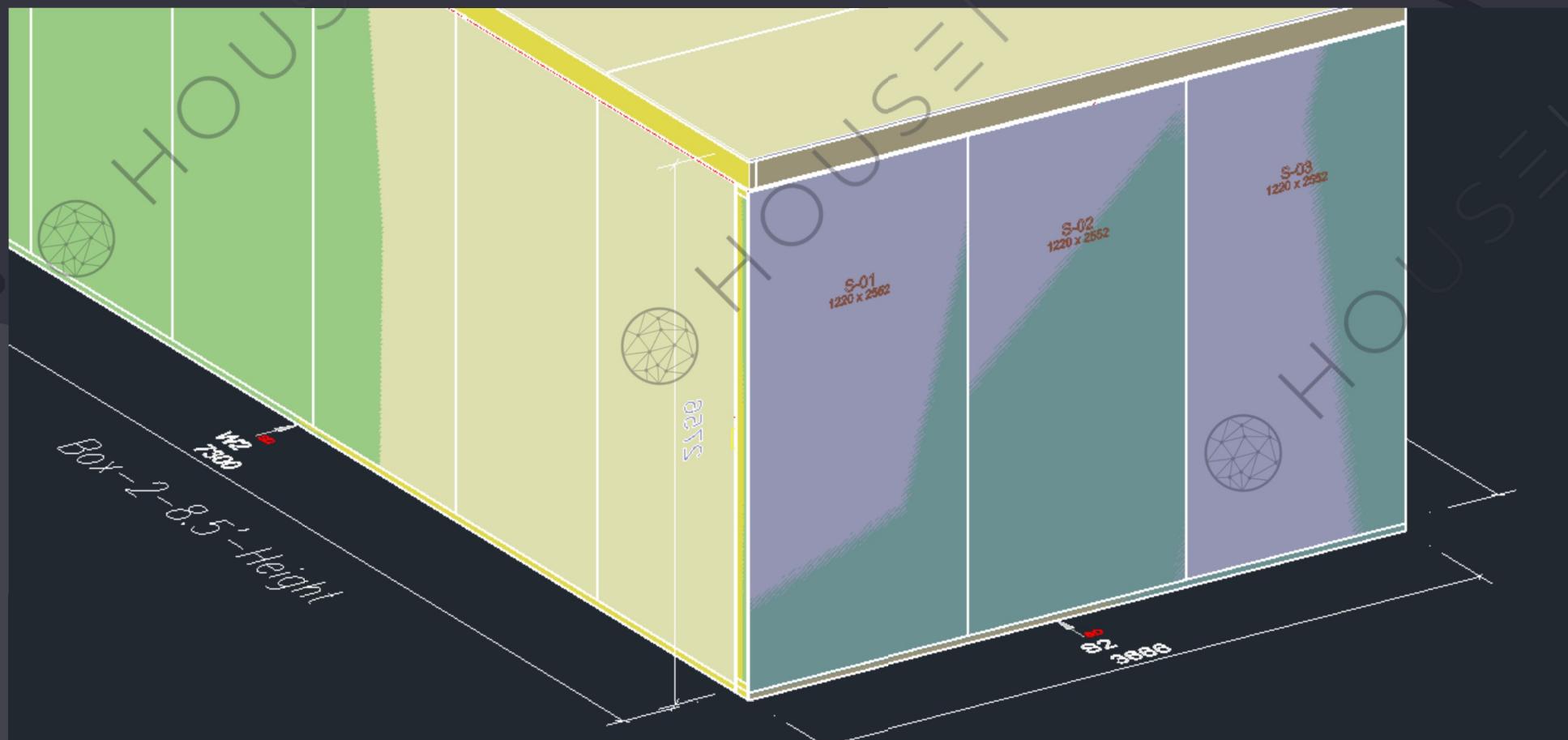
SIPS wall+ceiling+seperate roof Add on

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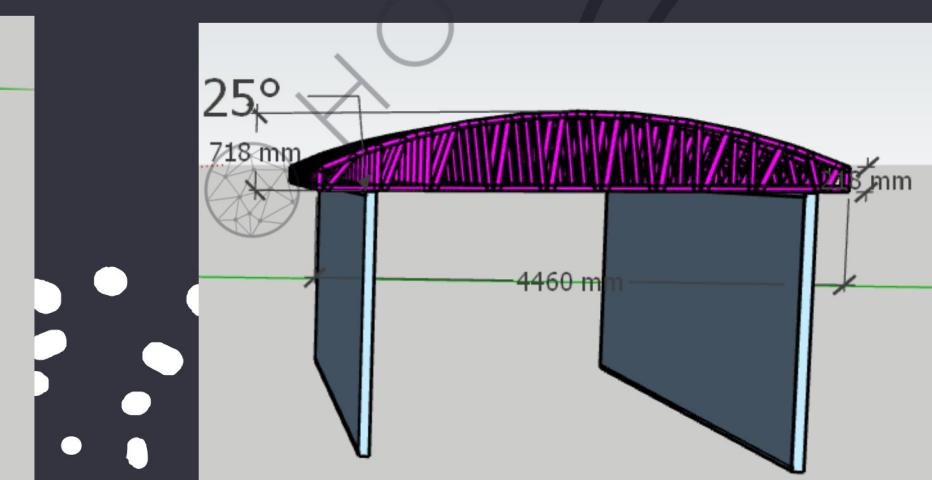
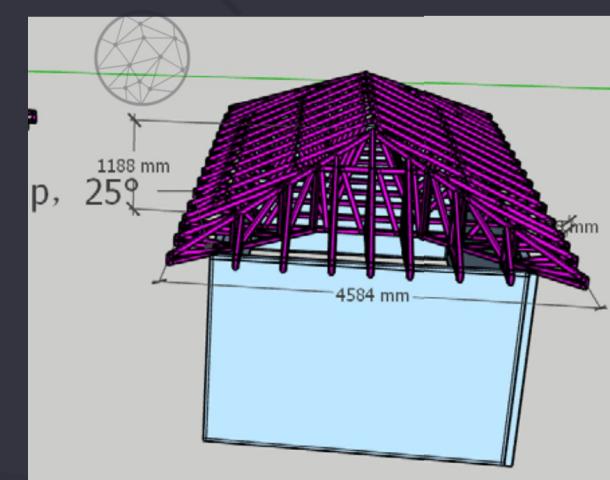
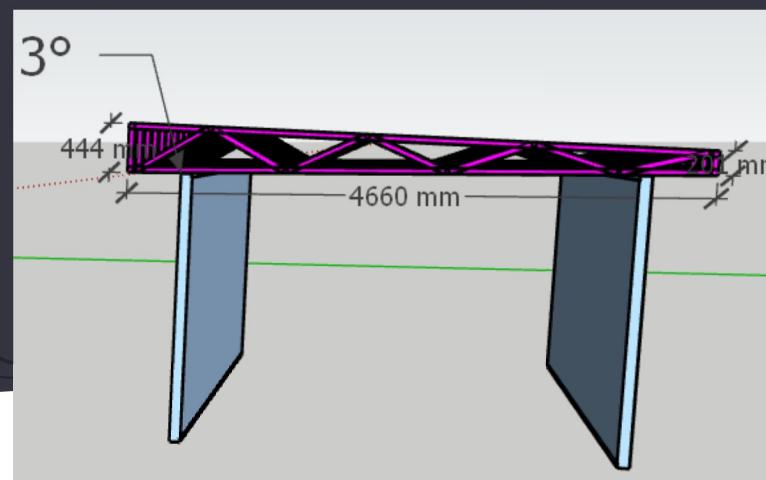
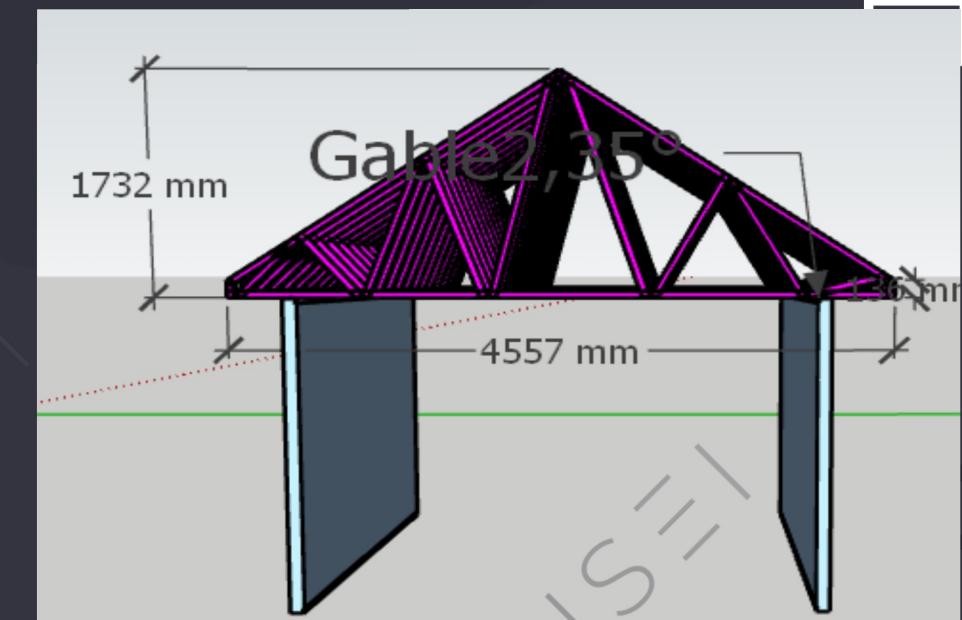
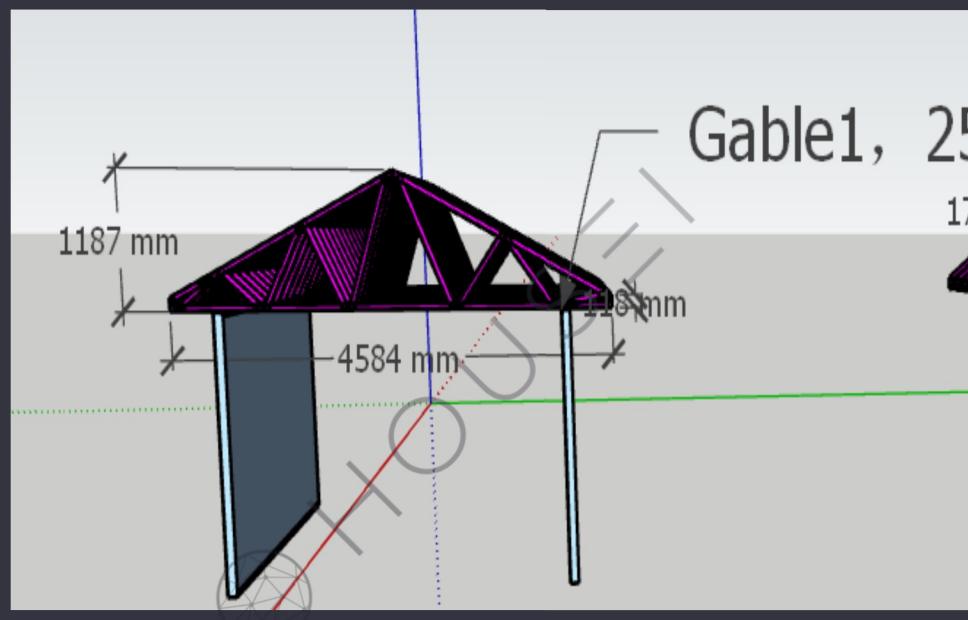


Bottom: SIPs box (save 30% on manufacturing difficulty, can be stocked; standard)

(much easier to be installed on site, have a working platform first, easy to be decorated)



Many options of L.G.Steel Truss roof possibility to be add on



HOUSEI - houseBy2 Sweden Serial



0304(18m²) 3.66X4.88(studio)

0307 (31m²) 3.66X8.54(1 bedroom)

0310(44m²) 3.66X10.22(2 bedroom)

You can build a cozy house within only 2 People