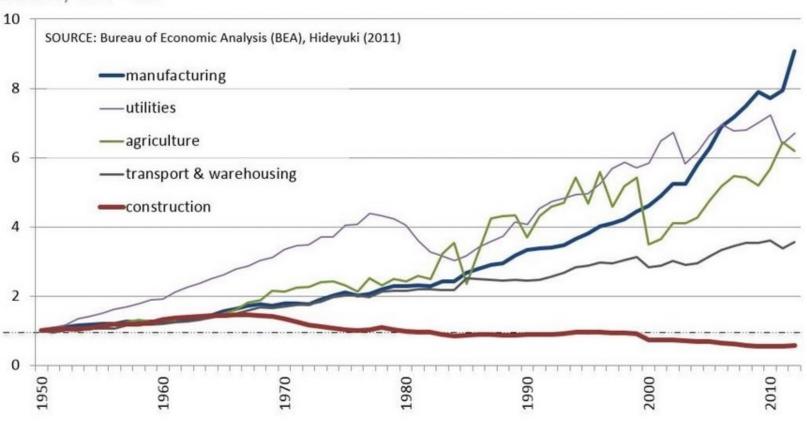


GO Logic LLC is a 30-person design and construction firm in Belfast and Scarborough, Maine, committed to designing and building passive structures throughout the Northeast. Founded in 2008 by builder Alan Gibson and Architect Matthew O'Malia.

Alan Gibson
Certified Passive House Builder

Construction productivity 1950-2012

Real productivity (GDP value-add per employee) by industry in the US Indexed; 1950 = 1.0



SWEDISH INSPIRATION



SWEDISH PICK-OUT-A-HOUSE PARK



FACTORY PRODUCTION



LEVELS OF FINISH



GIVE ME THIS TRAILER, PLEASE



BOOKS OF HOUSE PLANS









MODULAR MULTI-FAMILY

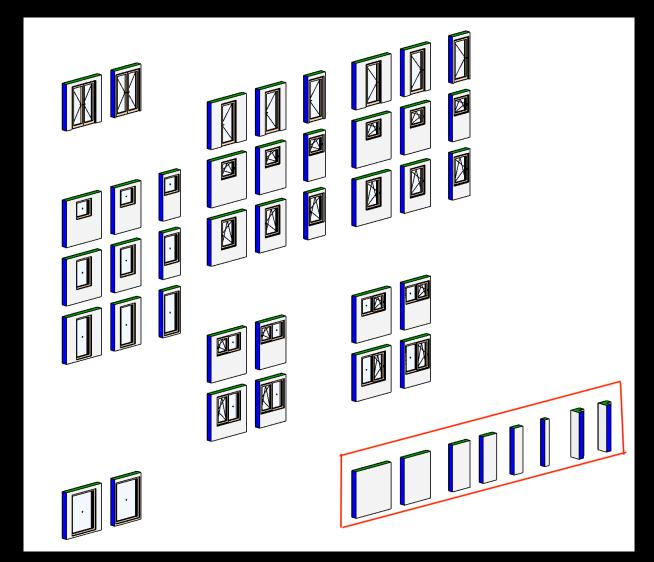


MODULAR SINGE-FAMILY















BUILDING INFORMATION MODELING



IT'S A PRODUCT. THIS IS A PARTS LIST.

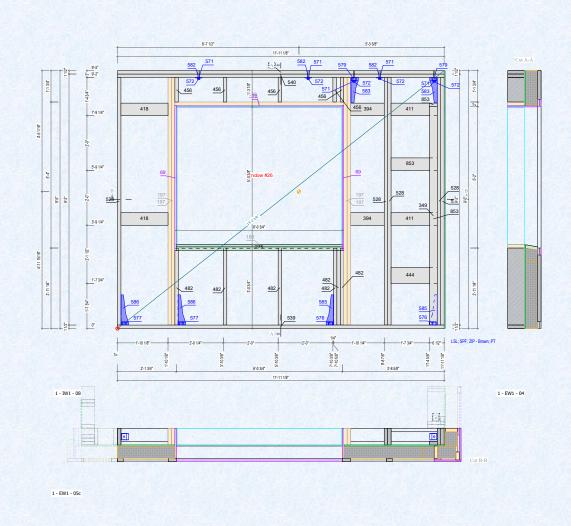
11-30-2021 MH Residence

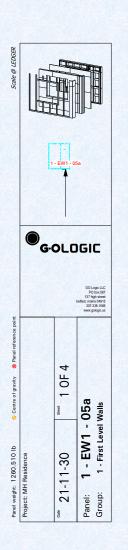
No.PL	Name	Material	Height	Width	Length	Quantity	Notes
			[inch]	[inch]	[inch]		
Sub group:1 - First Level Walls							
Group:1 - EW1 - 05a							
13	Strapping	Advantech	3/4"	3"	1'-4 7/8"	2	
31	Strapping	Advantech	3/4"	3"	5'-3 3/4"	1	
33	Strapping	Advantech	3/4"	3"	6'-0 3/4"	2	
34	Strapping	Advantech	3/4"	3"	6'-3"	1	
42	Strapping	Advantech	3/4"	3"	8'-0 1/8"	2	
52	Strapping	Advantech	3/4"	11 3/4"	1'-4 7/8"	1	
58	Strapping	Advantech	3/4"	11 3/4"	8'-0 1/8"	1	
80	Strapping	Advantech	3/4"	1'-1 7/8"	1'-4 7/8"	1	
86	Strapping	Advantech	3/4"	1'-1 7/8"	8'-0 1/8"	1	
121	WIN.0	Auxiliary Window	7 1/4"	5'	6'	1	Window #26
125	Strapping	Coravent	3/4"	3"	2 5/8"	1	
128	Strapping	Coravent	3/4"	3"	7 3/8"	1	
145	Strapping	Coravent	3/4"	3"	5'-3 3/4"	1	
148	Strapping	Coravent	3/4"	3"	6'-0 3/4"	2	
149	Strapping	Coravent	3/4"	3"	6'-3"	1	
165	Strapping	LSL	3 1/2"	1 1/2"	9'-5"	1	
176	Strapping Blocking	LSL	5 3/8"	1 1/2"	9'-5"	2	
188	Window sill Header Plate	LSL	7 1/4"	1 1/2"	6'-2"	2	
197	King Stud Jack Stud	LSL	7 1/4"	1 1/2"	9'-0 1/2"	4	
275	Window sill	PT	5 3/4"	1 1/2"	6'-0 3/4"	1	
287	Strapping	SPF	2 1/2"	1 1/2"	1'-0 5/8"	3	
301	Strapping	SPF	2 1/2"	1 1/2"	2'-4 7/8"	1	
302	Strapping	SPF	2 1/2"	1 1/2"	2'-5 1/4"	2	

Parts are cut out by this machine, or similar.



Parts are assembled like this.





STRUCTURE FROM REFERENCE SIDE

And it looks something like this.



PROCESS: WINDOW PRE-ASSEMBLY



PROCESS: WINDOW INSTALLATION



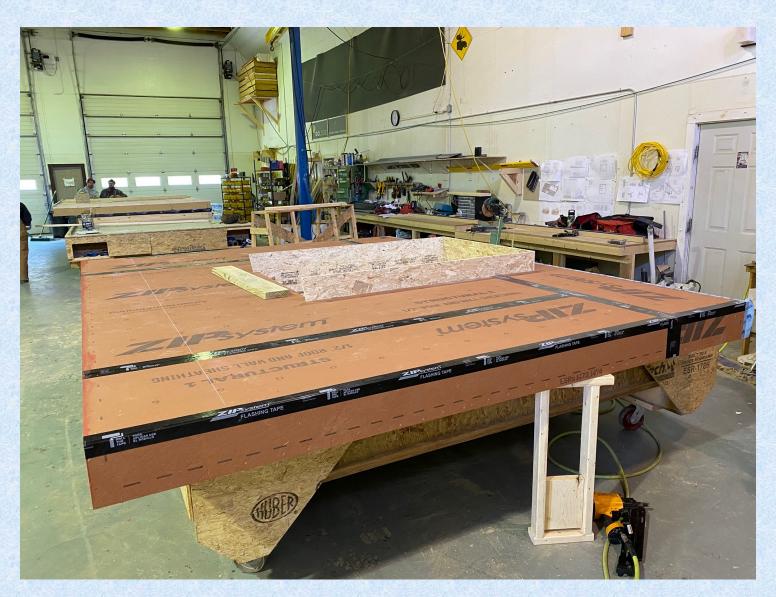
Training: an essential part of the process!



PROCESS: FRAME AND SHEATHE



PROCESS: SHEATHING AS AIR BARRIER



PROCESS: EXTERIOR INSULATION



PROCESS: WEATHER-RESISTIVE BARRIER



PROCESS: RACK AND WRAP



PROCESS: THIS IS SCARY



PROCESS: READY FOR TRANSPORT



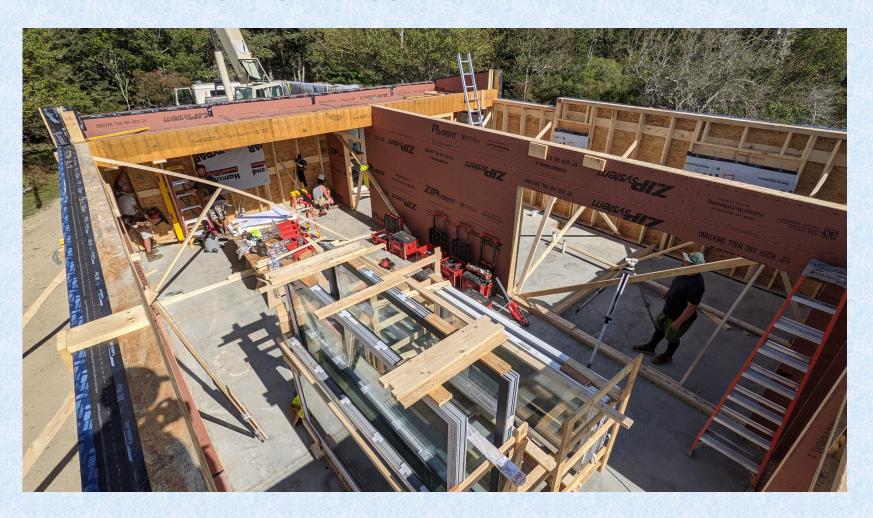
ON-SITE ASSEMBLY



ON-SITE ASSEMBLY



ON-SITE ASSEMBLY





Higher Quality

- Built indoors
- Higher precision
- Better control of air-tight details
- Lower risk of wet material issues (mold, mildew)

People like the idea

- · Less time on site
- Neater, cleaner





Panelization Disadvantages

Additional Costs

- Training for new means and methods
- Heavy equipment (crane, lull)
- Travel and Lodging, per diem, overtime pay (doubles the labor rate)
- Additional engineering costs
- · Shop drawing costs, and time

Panelization Timeline

Typical Timeline

- Windows (6 months)
- Panel build (4-6 weeks)
- Installation time (6-9 days)
- Total: 36 weeks

Improved Timeline (Aspirational)

- Windows in inventory (0 months)
- Panel build (2 weeks)
- Installation time (1 week)
- Total: 3 weeks

Typical Scope of Work Division

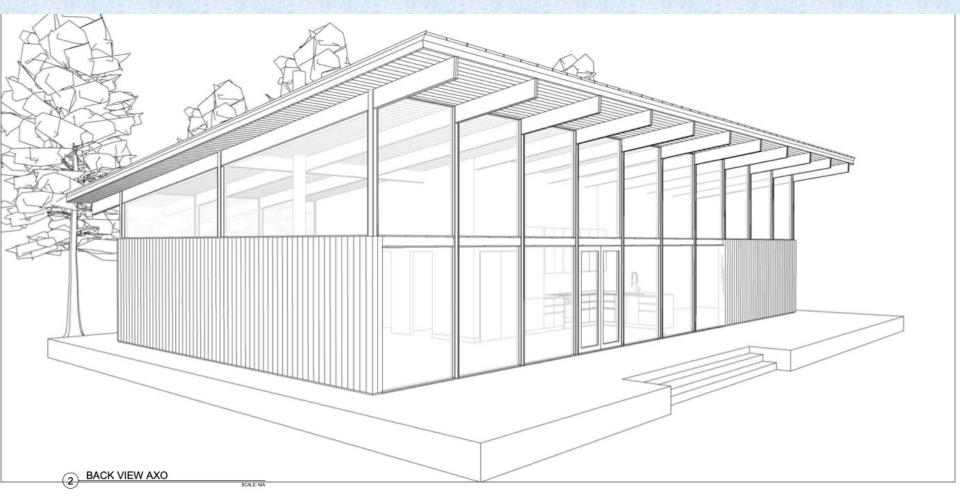
Panel Manufacturer

- Walls, floors, roof structure
- Windows and doors installed
- Assembly of shell

GC

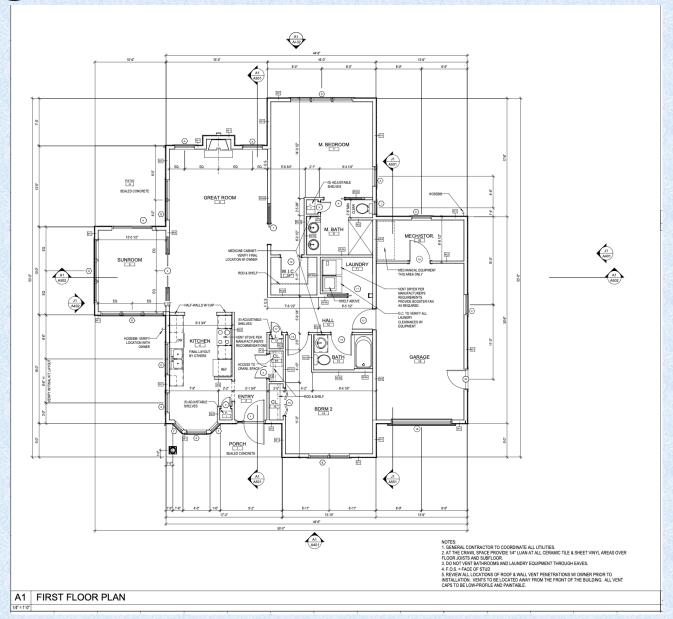
- Site work
- Foundation
- Roofing, siding
- MEP
- All finishes

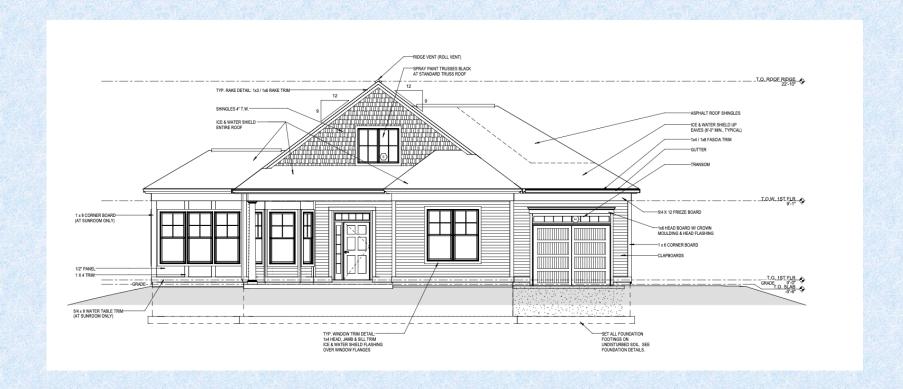




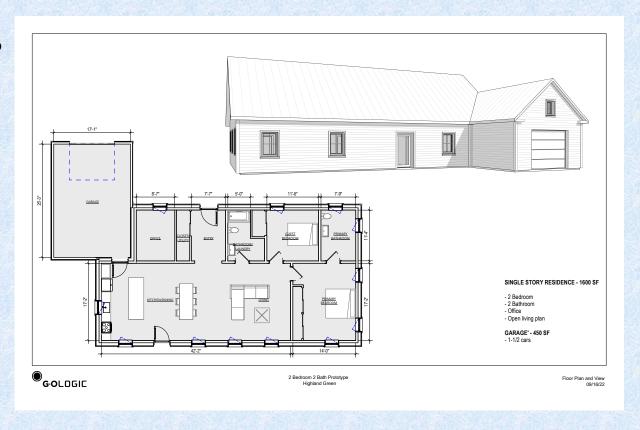


24 corners13 roof planes





New/Improved? 8 corners 4 roof planes



- Simple forms
- Walls under 9'-6" height
- No windows to the floor
- Not so many giant windows
- No moment frames, steel, or other additional structure if you can help it
- Repetition/reuse of the same design





Business Case



Model Homes







2300 SF

Bedrooms: 4 Bathrooms: 2.5 Floors: 2

1800 SF

Bedrooms: 3 Bathrooms: 2.5 Floors: 2

1700 SF

Bedrooms: 3 Bathrooms: 2 Floors: 1





1600 SF contemporary

Bedrooms: 4 Bathrooms: 2 Floors: 2





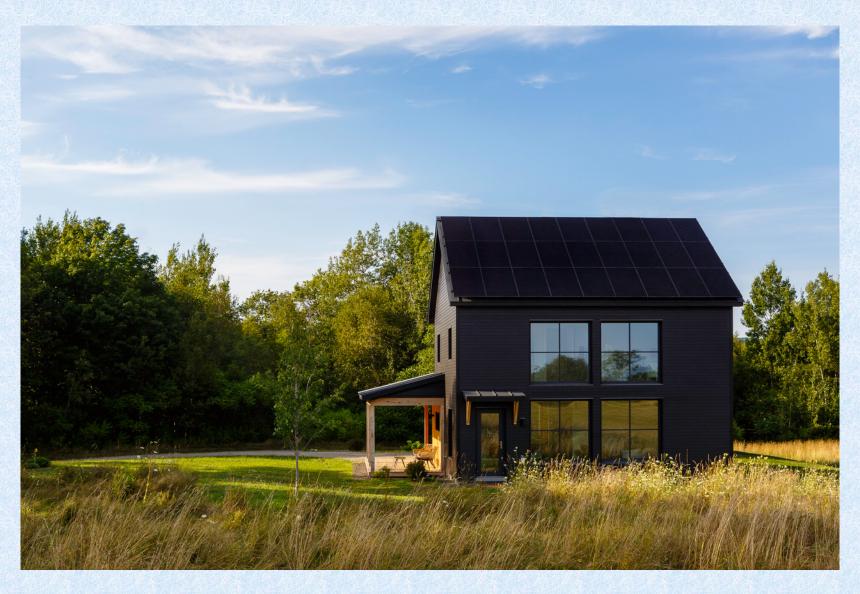
Bedrooms: 4 Bathrooms: 2 Floors: 2



1500 SF

Bedrooms: 3 Bathrooms: 1.5 Floors: 2











Optimized Design and Assembly

