

## ***Precision Modular Building***

Affordability is driving the tiny and micro house market. It is also driving the modular market as well. The modular manufacturers are moving toward the factory built with standardized Q/C standards. However, they are still hampered by utilization of the same old method of construction. Sticks and nails which are okay, however are slow to build and weak structurally compared to advanced technologies, such as a HSC (Honeycomb Structural Composite) panel assemblies.

Nearly all micro, folding and tiny house builders are embracing the RV method of assembly, foam filled bent metal, very heavy, cumbersome, and not very energy efficient either. This manufacturing style is labor intensive and requires a higher proportion of skilled labor.

A bit of history, interestingly enough, the LEGO was invented the same year as the honeycomb HSC building panel, 1947. Lego was born on a precision manufacturing model. Once its success was realized they attempted to migrate this new technology to the United States to expand their market. They assumed all plastics manufactures had the same standards as them, they were mistaken. They chose a large plastics molder based on cost and capacity. They quickly realized the standard manufacturing mantra “close enough” for toys was the normal. They needed precision to make their product perform to their standards. At which point they were forced to bring their precise standards of manufacturing to the United States for their product to succeed.

What’s my point you’re thinking? If you start with precision HSC (Honeycomb Structural Composite) panels to make your assemblies with, you avoid a lot of handwork for fit and finish. You can also utilize a lower skilled labor force, thus expanding your labor force availability. Given the fact that you can assemble 640sqf with 6 lower skilled labores in 7.5 hours should be appealing. That includes all interior and exterior walls, roof, wiring and plumbing. Also, to mention the superior strength an HSC panel gives to the overall build.



Let's look at the process of assembly. A volumetric production line approach will prove to be the best option. With pod or module availability for living room / bedroom, kitchens, and baths, this can not only expedite production with exceptional quality control. It will also reflect in, outstanding appearance, cost savings while ensuring repetitive quality for the consumer.



The same exact approach applies to modular assemblies. Applicable to either flat assemblies or stackable precision assemblies making field delivery fast, connections will be much easier and precise. Not to mention that the assemblies are fully bonded and interdependent for overall remarkable strength during travel, lifting and long life.

Gorilla Composites brings all these aspects to the manufacturing markets I have just presented. We can provide the panel production lines to meet 4.0 standard production process operating at one 4.5" thick, 4'x8' panel per minute to a 2mm tolerance. Gorilla Composites also brings leading-edge solar technology, advanced wiring options, production plant designs and architectural engineering. Our team is focused on the volumetric manufacturing approach with the highest quality addressing value economics.



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