STRONGKOR BUILDING TECHNOLOGY The Future - Now





We have created a modular building system that will build everything from basic infrastructure to stadiums and hospitals for less cost and time of any other comparable site built system.

PANEL SYSTEM

The StrongKor integrated panel, stacking and space frame systems develop any building to any height desired in a wide variety of architectural finish.

Competitive Analysis Chart	StrongKor	Wood-frame (for comparison)	SIP modular	Panalized SIP (insulspan)	ICF (Amvic)	Concrete masonary Uniblocks (CMU) (all masonry)	Recycled Polystyrene ICF	Autoclaved aerated concrete	IHI building system
	•		•	•			•		•
Significantly reduced construction time									
Higher R-values than traditional construction	•		•	•	•			•	•
Significantly faster occupancy	•		•	•			•	•	•
Significantly reduced labor costs	•		•	•			•	•	•
Increased energy efficiency	•		•	•	•	•	•	•	•
Noise insulation reduction	•		•	•	•	•	•	•	•
High wind resistance	•		•	•	•	•	•	•	•
High earthquake seismic activity resistant	•		•	•	•	•	•	•	•
High snow/roof load resistance	•		•	•	•	•	•	•	•
High flood/water damage resistance	•				•		•	•	•
High fire resistant	•				•	•	•	•	•
Mold and mildew resistant	•		•	•			•	•	•
High termite resistant	•					•	•	•	
Computer aided design and manufacture	•		•	•			•	•	•
Potentially eligible to receive insurance discounts	•		•	•	•			•	•
Significantly reduced repair and maintenance needs	•				•		•	•	•
Easily customised designs	•		•	•			•	•	•
Adequate selection of pre-designed options available	•			•					
Significantly reduced environmental impact (forests)	•				•	•	•	•	•
Reduced on-site construction waste	•		•	•			•		•
Warranties offered (or to be offered)	•	•	•	•	•	•			•
System allows for reasonable future remodelling	•	•	•	•	•	•	•		•
Construction schedule frequently impacted by late arrival of materials and labor	•	•			•	•	•		
Construction schedule frequently impacted by weather	•	•		•					
Shipping clearances required to move materials	•	•	•						
Significantly more expensive than wood frame	•		•		•	•		•	•
Energy efficiency and long term savings	•		•	•	•	•	•	•	•
Replaces interior drywall in field, retains drywall look	•								
Molded exterior walls to replace masonry or stone, but retains masonry or stone look	•								
Walls provide greater insulation	•								
Structurally acceptable across North America and international building code standards	•	•	•	•	•	•	•	•	•
Pre-installed windows and doors	•								

PANEL SYSTEM



HORIZONTAL STAGE 1

- Prepare form area with liners for embossed surface finishes. Panels are cast inverted, install slab inserts for plumbing, etc.
- Tension cables over form area.
- Connect post-tension conduits to cables.
- Suspend mesh grid forms over cables and conduits.
- Inject forms with specialized concrete formula.
- Curing and magnetic induction alignment completes STAGE 1.

VERTICAL EXTERIOR

- Prepare form area with embossing liners.
- Install pre-frames for windows and doors.
- Install pre-tensioned reinforcing mesh with reinforcing links and opening supports.
- Cast exterior wall skin and spray on glue sealer.
- Install shaped rigid insulation.
- Install pre-tensioned cables, ladder and mesh.
- Install post-frames for windows and doors.
- Cast interior wall skin and roller surface.
- Cut panels to size, machine edges and color.
- Reusable rib forms set into form area.
- Install pre-tensioned cables, ladder and mesh.
- Install frames for windows and doors.
- Cast interior wall skin and roller surface.
- Cut panels to size, machine edges and color.
- All panels, both exterior and interior, are labeled, wrapped and shipped.

PANEL INSTALL

- With the horizontal and vertical panels complete and ready for installation, they are assembled in order and shipped appropriately to the site.
- Craned into place, the panels are connected together by specifically designed concealed



panel connectors and post-tensioned cables.

• The integration of these panel systems will provide a quality construction with an almost completely finished project upon delivery.



STACK SYSTEM

- Our modular stacking system is suitable for projects up to 50 meters in height.
- We use our horizontal panel system with up to four vertical wall panels, bulkhead beams and temporary braces for each stacking unit.
- Each unit is fully finished with mechanical, electrical, fixtures and appliances in the factory.
- To complete the structure, we incorporate a modified version of our horizontal panel system to make a modular roof panels.

STACK INSTALL

- Foundations prepared for stacking units.
- Units craned from above to interlock with each other. This includes stair and elevator cores.
- Blank end walls are interlocked with exterior wall panels and are then insulated.
- At corridors, concrete topping is used to connect units. Floors and ceilings finished.
- Modular roof panels are installed at top level.
- Fire stopping, sealants and trims are installed to complete project.



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12



SPACE FRAME

- Our most advanced system, allows larger free spaces without any practical height limitation.
- Horizontal floor panel secured to space frame.
- Each unit is fully finished with mechanical, electrical, fixtures and appliances in the factory.

These units are wrapped and shipped with other units such as:

- Stacking units for stairs and elevator cores.
- Panel pieces for structure, roofs and open spaces.
- Trims and miscellaneous pieces.
- The structure is built to the roof, with temporary braces (shown in green on the attached drawing) to help stabilize the open structure.
- Slide-in space frame units installed to structure when structural 'skeleton' completed to roof.
- Concrete topping is installed at corridors and common spaces for additional stability.
- Corridors and common space ceilings and floors.
- Fire stopping, sealants and trims are installed to complete project.







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