

Experience



the Hi-Lite Advantage

Aluminum Panel Forming System





WHY ALUMINUM?



RECYCLABLE, SUSTAINABLE, VERSATILE:



- What exactly does it mean to be green? For a material or product to be considered green, it should have low impact on the environment and therefore favor environmentalism—the practice of protecting and conserving the natural environment and its resources. Aluminum is one such material.
- What makes aluminum a green material? Aluminum is recyclable, sustainable, and versatile; three key qualities for any material being used to construct a green building. Historically, aluminum has proven to be one of the most important materials in successful recycling programs. Aluminum offers high scrap value, widespread consumer acceptance, and aluminum recycling enjoys significant industry support.
- Using recycled building materials saves substantial total energy otherwise used for material production. Producing recycled aluminum building materials reduces pollution emissions and energy use, taking only five percent of the energy needed to produce raw aluminum from bauxite. Jerry Powell, Editor, Resource Recycling says, "Many construction materials are hard, if not impossible, to recycle, and this is a negative factor when wishing to undertake a sustainable construction project. This is not the case, however, for aluminum as a building product. The sizable energy savings attained when scrap aluminum is re-melted makes the recovered metal very valuable."
- Aluminum, one of the most abundant elements in the earth's crust, is an ideal natural materials choice for sustainable construction products.
- From a green design perspective, aluminum's reduced cost over a longer life cycle offers builders a viable economical choice. Aluminum resists the ravages of time, temperature, corrosion, humidity, and warping, adding to its incredibly long life cycle.



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ALUMINUM PANEL FORMWORK SYSTEM

Is an integrated forming and shoring system that offers a lightweight and cost effective solution that can be used in virtually any application, in which reinforced cast-in-place concrete is the specified method of construction. With the use of reinforced cast-in-place construction by using Aluminum Panel System it is more time and cost efficient.

Aluminum Panel System was designed to be used in monolithic construction as well as two stage construction methods, offering the flexibility to suit any application and any building layout, from single storey building to high-rise apartments. This Panel System can easily allow forming of walls, slabs, doors, windows, columns and a wide range of architectural features, monolithically and separately.





ALUMINUM PANEL SYSTEM as a hand system offers a wide range of benefits:

- **Lightweight:** average system weight – 20 kg/sq. meter, making it easy to handle, assemble and erect by job-site labour without need of crane, heavy machinery or special tools.
- **Durable:** made of durable, one of the highest quality aluminum alloy. It's designed to support a specific concrete pressure or work pressure of 60 Kilonewtons per sq. meter. It's extruded aluminum components makes the panel more robust and resistant to wear and tear at the job site, extending the lifespan. All of the above features can extend the lifespan of the system with an average of 3,000 applications/usage.
- **Economical:** competitive price, costing less per use than other systems and reducing maintenance & finishing costs.







- **Versatile:** Designed for monolithic casting, allowing simultaneous construction of walls, slabs and stairs, which optimizes the duration of the project. The system can also be applied to 2 stage casting whereas the walls, slabs, columns and stairs are built separately.
- **Speed:** Its easy use and quick erection time (assembly/ stripping process), drastically improves the casting cycle time
- **Efficient:** this system minimizes the amount of welding, streamlines and improves the construction process and reduces the maintenance and scrap cost
- **Cost - effective:** save on construction and finishing costs; given its cost-effective assembly/stripping process, plus other features like starter panels that control the quality of construction joints. It's sole aluminum alloy extrusion leaves no stains on the finished concrete & provides a clean, smooth surface

STANDARD PANEL - SIZES







PART No	MODEL	STANDARD SIZE mm (W)	STANDARD SIZE mm (H)
ZX-01	U600	600 mm	2,600; 2,500; 1,200; 1,000; 900; 800
ZX-02	U400	400 mm	2,600; 2,500; 1,200; 1,000; 900; 800
ZX-03	U350	350 mm	2,600; 2,500; 1,200; 1,000; 900; 800
ZX-04	U300	300 mm	2,600; 2,500; 1,200; 1,000; 900; 800
ZX-05	U250	250 mm	2,600; 2,500; 1,200; 1,000; 900; 800
ZX-06	U200	200 mm	2,600; 2,500; 1,200; 1,000; 900; 800
ZX-07	U150	150 mm	2,600; 2,500; 1,200; 1,000; 900; 800
ZX-08	U100	100 mm	2,600; 2,500; 1,200; 1,000; 900; 800
ZX-09			150 X 200
ZX-10			150 X 1,000

FLAT PANEL	ALUMINUM SUPPORT POSTS	WALL END PLATE / COVER
		

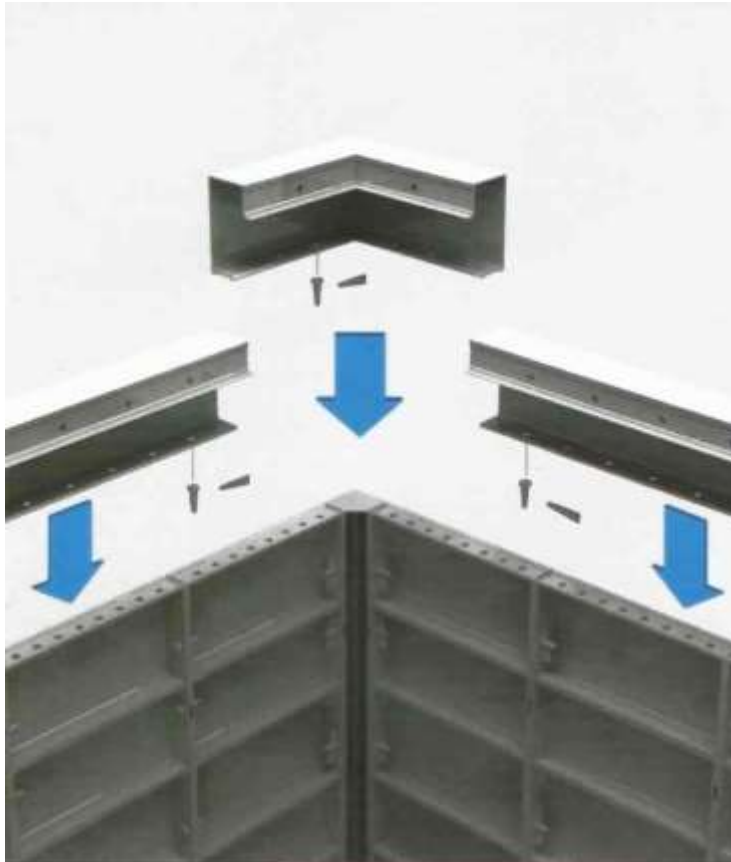
INNER CORNER	WALL BULK HEAD PANEL	BEAM SIDE PANEL	OUTSIDE CORNER ANGLE
			

MIDDLE BEAM / LEDGER	POST HEAD CONNECTOR	LEDGER POST HEAD
		
FLOOR BOTTOM	INNER CORNER OF FLAT PANEL	OUTER CORNER OF FLAT PANEL
		

LIFTING CATWALK BRACKET	PLATE BRACKET	WALL CATWALK BRACKET
		
PIN AND WEDGE PIN	LONG PIN AND WEDGE PIN	FLAT TIE BARS
		

PLASTIC CASING	HOOK
	
BRACKET BOLT AND NUT	BOLT, NUT AND WASHER
	

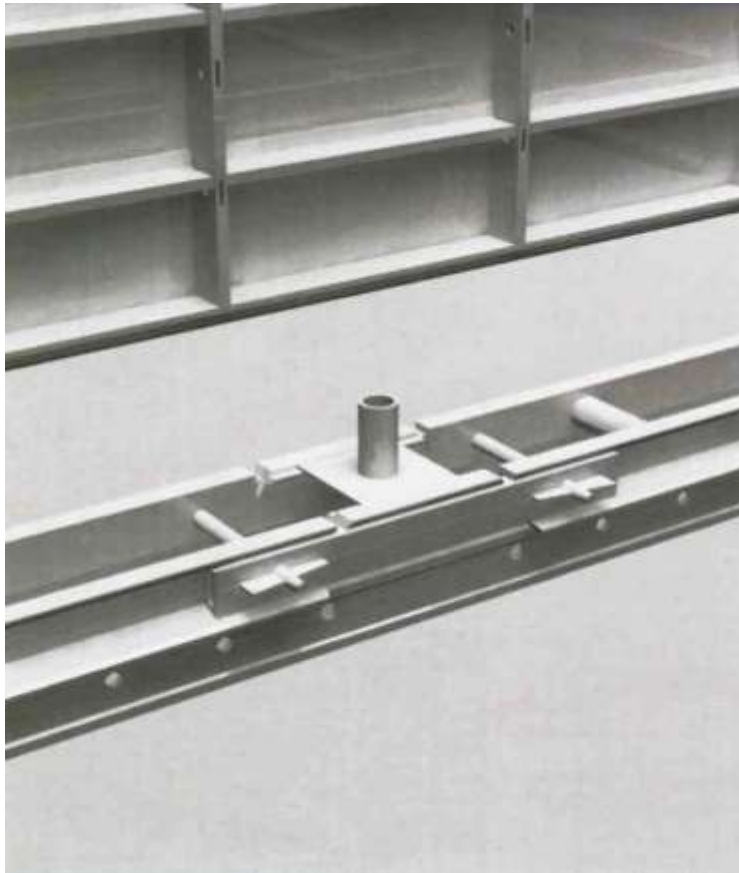
INSTALL FLOOR INTERNAL CORNER



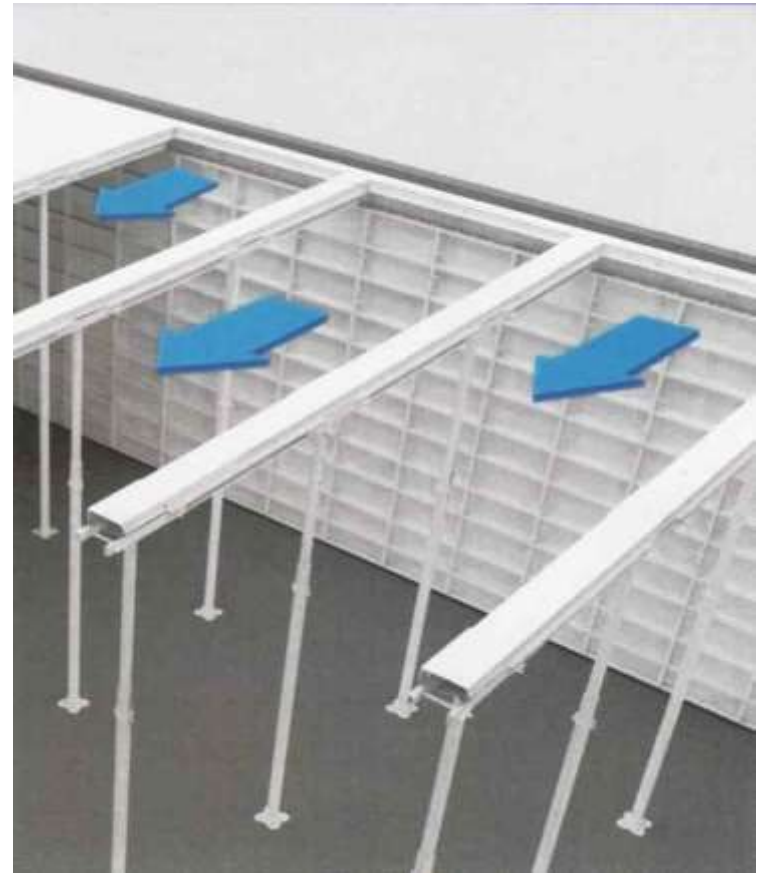
INSTALL BEAM MODE



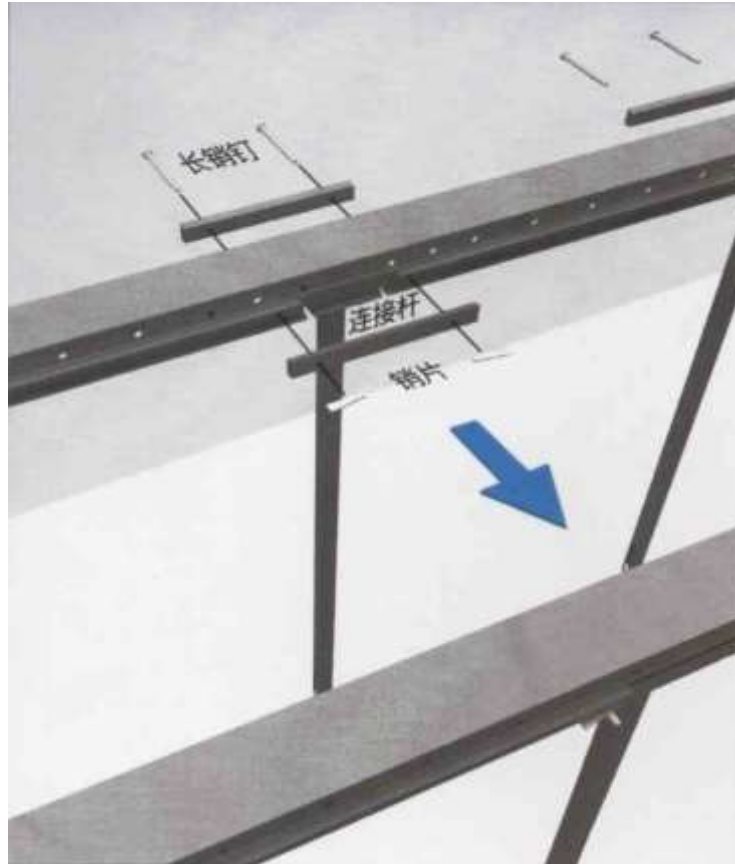
DETAILED INSTALLATION FOR BEAM MODE



INSTALL SLAB FORM



REMOVE SPIGOT AND WEDGE PIN



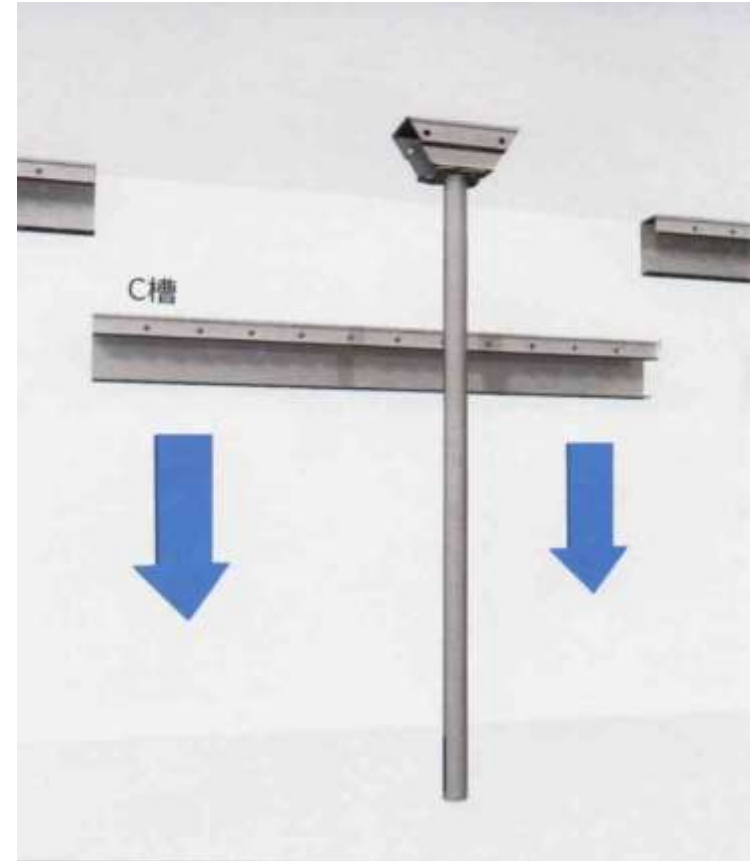
REMOVE BEAM MODE



REMOVE HORIZONTAL PANELS



REMOVE CORNER ELEMENTS



SLAB PANELS



BAY WINDOWS



EXTERNAL CORNER



WINDOW OPENING



ELEVATOR SHAFT



BEAMS FORMING



SLAB OPENING



OPENING FOR THE STAIRS



POST SHORES POSITIONS



SUPPORT SYSTEM



SUPPORT SYSTEM



CORNER WINDOW



OUTSIDE WALL PANELS & PINS



INSIDE CORNER UNDER SLAB



INSIDE CORNER



TRANSMISSION OPENING









OUTER WALL PANELS



WALLS AND SLAB



CONCRETE BEAMS FORMING	SLAB SUPPORT SYSTEM	UNDER SLAB BEAMS
		
STAIR CASE	WALL PANELS STRIPPING	CONCRETE STRUCTURE AFTER STRIPPING
		





















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Supported by five regional offices.

Hi-Lite products are utilized by contractors in over thirty countries around the world.

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the Hi-Lite Advantage.

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Call 1-877-HILITE-1 (1-877-445-4831) to request a demonstration of our Hi-Lite Aluminum Systems.

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