



**ALUCROFT
DYNAMICS
PRIVATE LIMITED**



ENGINEERING SPEED IN MODERN CONSTRUCTION

Aluminium & Mivan Formwork Systems

- ✓ Faster Construction Cycles
- ✓ High Precision Engineering
- ✓ Durable Aluminium Systems
- ✓ Cost Efficient Large Scale Projects





**ALUCROFT DYNAMICS
PRIVATE LIMITED**

Alucroft Dynamics Precision Aluminium & Mivan Formwork Experts

Delivering high-performance reusable aluminium formwork systems across India.

Key Features

- ✓ High Strength Aluminium Panels
- ✓ Faster Slab & Wall Construction
- ✓ Reusable Formwork System
- ✓ Smooth Concrete Finishing
- ✓ Reduced Labour Requirements

Applications

- High rise residential buildings
- Mass housing projects
- Commercial infrastructure
- Township developments





Welcome to **Alucroft Dynamics Private Limited** – a trusted partner in delivering advanced Aluminium and Mivan formwork systems for modern construction.

We specialize in high-precision **aluminum** formwork solutions designed to accelerate project timelines, improve structural strength, and ensure superior concrete finishes across **residential, commercial, and infrastructure projects**.

With strong engineering expertise and site-level technical support, we help developers achieve faster slab cycles, reduced labour dependency, and cost-efficient construction outcomes.

OUR VALUES

At **Alucroft Dynamics**, our foundation is built on engineering excellence and long-term partnerships.

- **Safety First** – We ensure safe handling, structured installation methods, and secure site supervision.
- **Precision Engineering** – Every panel is designed for dimensional accuracy and structural integrity.
- **Efficiency Driven** – Our systems reduce slab cycle to sime cycle time and eliminate unnecessary plastering.
- **Client-Centric Approach** – Customised layouts and continuous support for every project.



Mohammad Azaz Ashraf
Managing Director

Sayema Tauhid
Co-Founder



ALUMINIUM FORMWORK

"BETTER QUALITY, EFFICIENT CONSTRUCTION AND COST SAVING."

Alucroft Dynamics Private Limited is committed to innovation and excellence in aluminium and Mivan formwork systems. We provide complete, high-performance formwork solutions for modern construction projects across India.

Our expert design team delivers optimized layouts tailored to each project, ensuring faster slab cycles, structural accuracy, and cost efficiency. Using **premium-grade aluminium** and **precision engineering**, we guarantee strength, durability, and reliable on-site technical support from start to finish.

ALUMINIUM AND MIVAN FORMWORK SYSTEMS

represent the next generation of modern, sustainable construction technology. Designed for speed, strength, and precision, they offer lightweight yet high-strength performance with lower lifecycle costs and superior project quality.

Compared to conventional formwork methods, aluminium systems reduce construction time, improve finishing standards, and enhance overall efficiency — making them the preferred choice for developers and contractors across India.

FEATURE

- ✓ **High bearing capacity**, good stability, the data show that the flexural strength of aluminium alloy profiles even higher than ordinary steel. The bearing capacity of most aluminium formwork system can reach 60 kN/m². It can sufficient to meet the requirements of the bearing capacity of most residential buildings.
- ✓ **Simple operation**, with weight of 18-22 kg, workers can install or remove the aluminium formwork by hand, each worker can install 20-30 m² per day et no need for lifting tower. It doesn't skilled workers since the elaborate design ensure the safety of aluminium formwork system.
- ✓ **Efficient construction**, highest project quality, aluminium formwork system is early stripping formwork system which can ensure that each layer of the construction cycle control within 4-5 days. It owns sole set of workflow , three sets of supporting replace three sets of formwork and stripping of plywood formwork. With finished smooth surface allows without the need for extensive plastering.



ALUMINIUM FORMWORK

- **Standard, versatile**, the precise-designed formwork system with little measurement error and high accuracy applies to all kinds of building elements, as the main wall, column, beams, stairs and balconies. When using a completed project to rebuild a new building, only 10%-20% of non-standard formwork need to be replaced.
- Independent support system, the gap between formwork support is totally enough for passing, moving and pulling.
- **High reuse rate**, low average cost, cycle time can be approximately 300 times, this greatly reduced the overall construction costs.
- **Environmental protection**, high recycling value, full **aluminium productive process** leads to no galvanization and thus to reduce the pollution of our earth. It still has a high recycling value when the aluminum template is scraped, several times than steel.

SPECIFICATION

- **NAME:** Concrete formwork, modular aluminium formwork system for building.
- **MATERIAL:** THICKNESS 6061 - T6/6082 - T6 aluminium alloy.
- **@MATERIAL:** 4 mm.
- **PROP MATERIAL:** Q235, Q345 steel.
- **TYPE:** FORMWORK Aluminium alloy formwork, supporting and fastening system, accessory system.
- **WEIGHT:** 18-22 kg.
- **THICKNESS OF FORMWORK:** 65 mm.
- **SAFE WORKINGLOAD:** 60 kN/m².
- **CYCLE TIMES:** 300.
- **SHAPE:** Rectangular, customized.
- **SIZE:** 0.5 m-11.85 m, custom-made, as your requirement.
- **PROCESS:** Drilling, bending, welding, precise cutting, punching, etc.
- **STANDARD:** EN 755 - 9, GB/T 6892-2015, JGJ 386-2016.
- **COLOR:** Silver white.
- **PACKAGE:** Standard pallet with waterproof film, or according to your requirement.



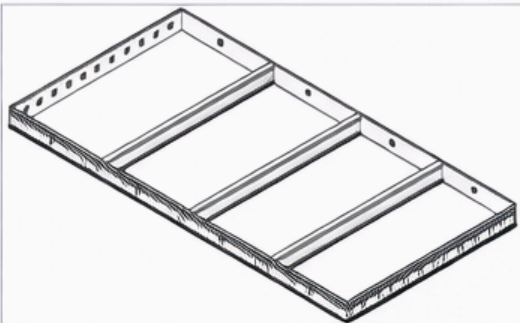
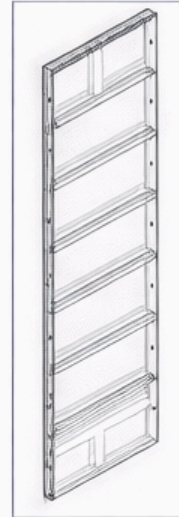
ALUMINUM FORMWORK

FORMWORK COMPONENTS

Wall panel (W)

600/500/450/400/300 x 2450 mm. Maximum weight: 28 kg.
Thickness: 63.5 mm.

Application: Wall panel cylinder panel components.
have both standard and non-standard type.



Slab panel (SP)

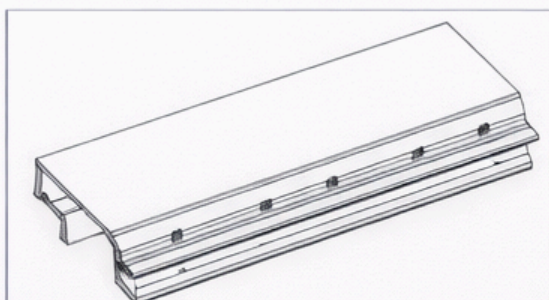
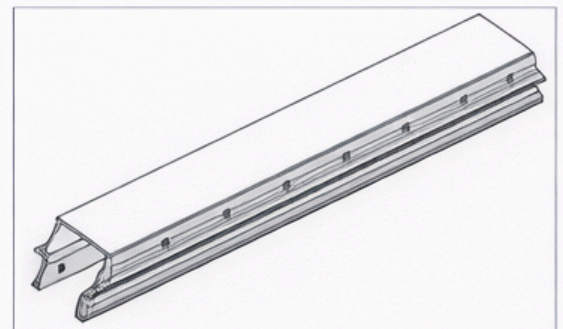
600/450/400/350 x 1200 mm. Maximum weight: 13 kg.
THICKNESS: 63.5 mm

APPLICATION: USED TO SUPPORT THE
CONCRETE WEIGHT
during concrete pouring and casting.

Middle beam (MB)

SIZE IMM: 900/1150/1300 (L) x 150 (D) x 125 (H).
MAXIMUM WEIGHT: 9 kg.

APPLICATION: joint the prop head and middle beam.



End beam(EB)

SIZE IMM: 600/900/1150/1300 (L) x 150 (D) x 125 (H).
MAXIMUM WEIGHT: 9 kg.

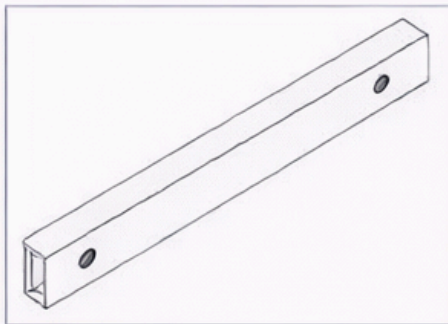
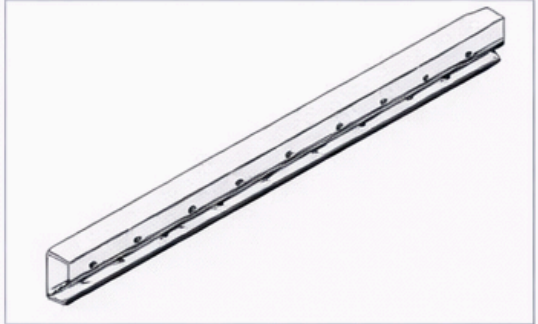
APPLICATION: join the prop head and slab coffer.



ALUMINUM FORMWORK

SLAB CORNER(SC)

Size: 125 mm (H). Maximum weight:
6.58 kg/m² Application: connection
between wall panel and slab panel.



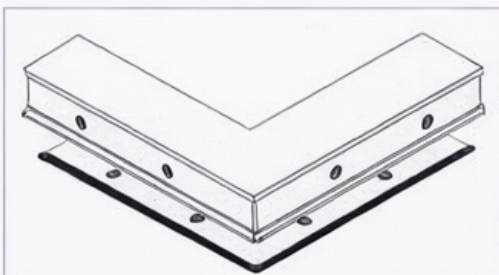
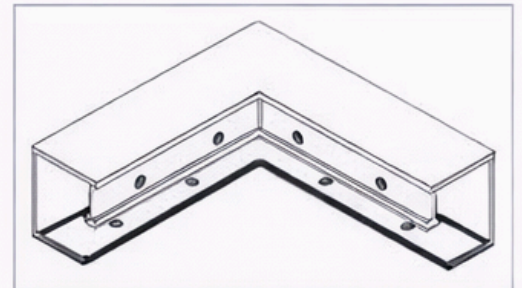
JOINT BAR

Size: Maximum 210 MM (L).
weight: **0.68 KG.**

Application: **JOINT THE PROP HEADS WITH THE BEAMS.**

SLAB INNER CORNER

Size: dependent upon each structure.
Application: connection between wall panel
and slab panel of inner corner.

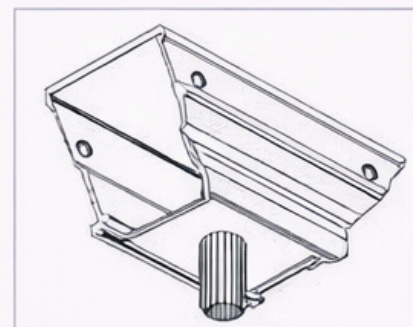


SLAB OUTER CORNER

Size: dependent upon each structure.
Application: Connection between wall
panel and slab panel of outer corner.

PROP HEAD (PH)

Size: 150 x 300 mm: Maximum weight: 2.5 kg/m².
Application: joint the beams together.
the pipe support will be placed under the prop head.

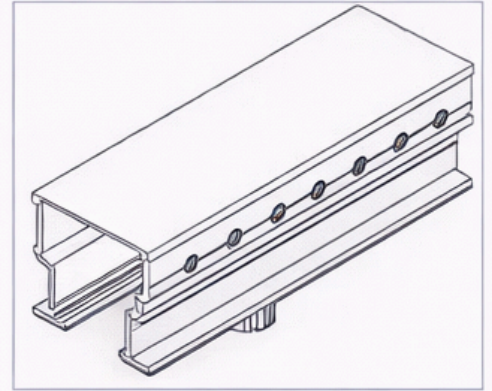




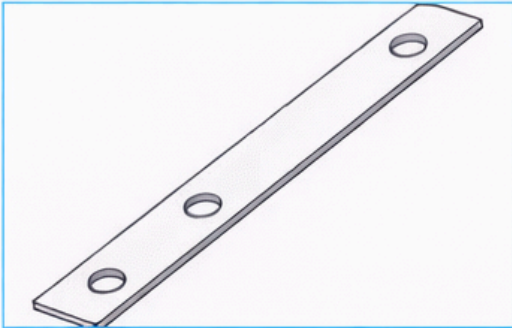
SPECIAL PROP HEAD

Size: dependent upon each structure.

Application: joint the beams together this special prop head will be placed where a normal prop head cannot be installed.



FORMWORK ACCESSORY

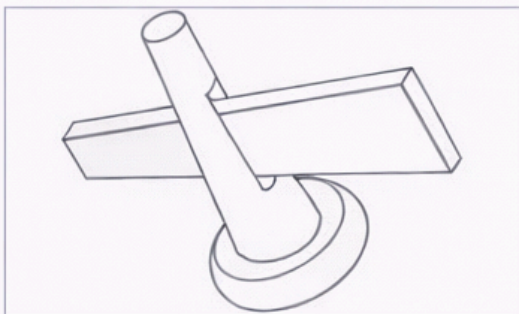
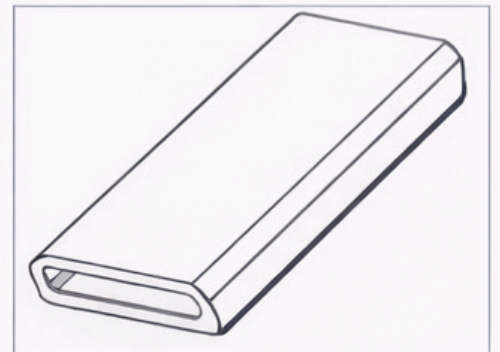


FLAT TIE

Application: joint the wall panel to the opposite side's wall panel. Depending on the wall panel's height, the number of flat tie used will vary.

PVC SLEEVE

Application: the flat tie will be inserted inside to protect the flat tie to be casting by the concrete.

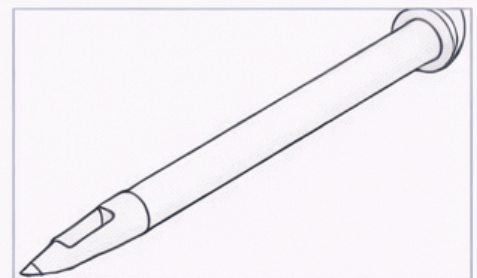


STUBBAND WEDGE PIN

Application: interlock each wall or slab panels together.

LONG PIN

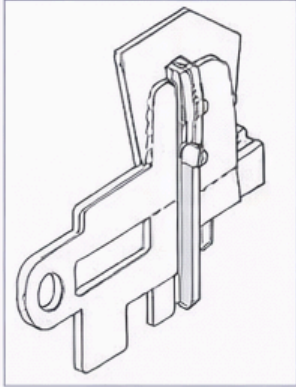
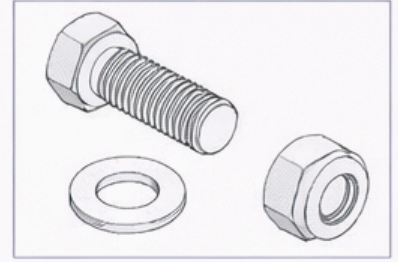
Application: interlock the prop head and beams together.





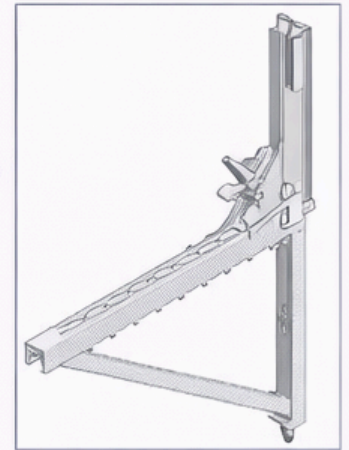
BOLT, NUT, WASHER

Application: fit panels on the concrete surface during its installation.



WALLER BRACKET, SQUARE PIPE

Application: ensure the horizontal straightness of wall panels and a flat wall surface (especially at the bottom) after concrete casting.



WALL PLATFORM

Application: fixed on the concrete, used as working platform for workers.



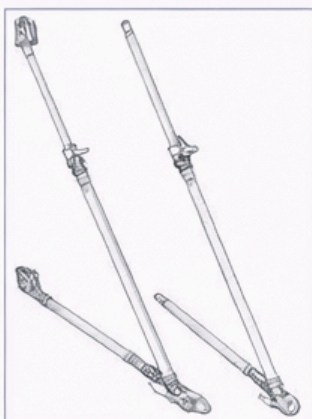
STEEL SUPPORT

Application: used to support the weight of the slab during concrete pouring and casting, adjusting the verticality and horizontality.



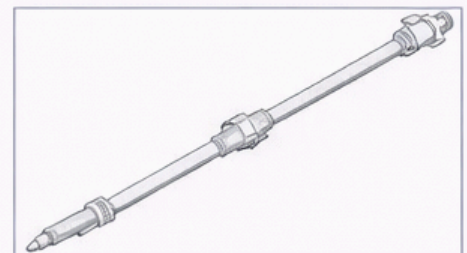
CROSSING BOLT

Application: fixing inner and outer wall panel. in case any wall distortion.



DIAGONAL BRACING

Application: used to adjusting the verticality and horizontality.





FORMWORK TOOL



Sleeve remover



Panel puller



Hole bari



Hammer



Steel tape



Work bench



Pretreatment mould oil








WALCOOM SERVICE PROCESS





ALUMINUM FORMWORK

MIVAN ACCESSORIES

SIMPLEX INFRASTRUCTURES LIMITED		
Accessories of Aluminum Shuttering Materials		
SL NO	Material Description	Photo
1	Short Pin 50mm Length	
2	Long Pin 132mm Length	
3	Wedge 3 mm Thk and 75 mm Length	
4	Wall Tie 280 mm Long for 100 mm Thickness Wall (40 MM Width)	
5	Wall Tie 330 mm Long for 150 mm Thickness Wall (40 MM Width)	
6	Wall Tie 340 mm Long for 160 mm Thickness Wall (40 MM Width)	
7	Wall Tie 380 mm Long for 200 mm Thickness Wall (40 MM Width)	



ALUMINUM FORMWORK




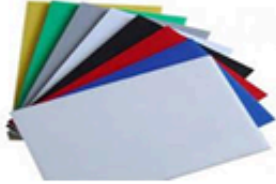




MIVAN ACCESSORIES

8	Wall Tie 430 mm Long for 250 mm Thickness Wall (40 MM Width)	
9	Wall Tie 630 mm Long for 450 mm Thickness Wall (40 MM Width)	
10	Aluminium Beam Bar (40MM Width) Standard Length 275mm, 300mm, 350mm.	
11	M16mm X 30mm Mild Steel Bolts (Diameter- 16mm & Length- 30mm)	
12	M16mm X 2mm Hexagon Nuts (Diameter- 16mm)	
13	16mm Spring Washers (Diameter- 16mm)	
14	M16mm X 80mm Mild Steel Bolts (Diameter- 16mm & Length- 80mm)	
15	M16mmX 2mm Hexagon Nuts (Diameter- 16mm)	



ALUMINUM FORMWORK

MIVAN ACCESSORIES

16	16mm Mild Steel Flat Washers (Diameter- 16mm)	
17	25mm O/D Pvc Cone (O/D Denotes- Outer Diameter)	
18	25mm O/D Pvc Pipe (O/D Denotes- Outer Diameter)	
19	Pvc Sleeve	
20		
21	52mm Width Polythine Tubing Roll	
22	Dywidag Wing Nut (DWN)	
23	Dywidag Tie Rod (DTR 400mm Length & 16mm Diameter)	



ALUMINUM FORMWORK









MIVAN ACCESSORIES

24	Dywidag Tie Rod (DTR 450mm Length & 16mm Diameter)	
25	Dywidag Tie Rod (DTR 500mm Length & 16mm Diameter)	
26	Dywidag Tie Rod (DTR 700mm Length & 16mm Diameter)	
27	Dywidag Scaffolding Rod (DSR 300mm Length & 16mm Diameter)	
28	Dywidag Scaffolding Rod (DSR 400mm Length & 16mm Diameter)	
29	Dywidag Scaffolding Rod (DSR 425mm Length & 16mm Diameter)	
30	Dywidag Scaffolding Rod (DSR 525mm Length & 16mm Diameter)	
31	Dywidag Scaffolding Rod (DSR 675mm Length & 16mm Diameter)	



ALUMINUM FORMWORK

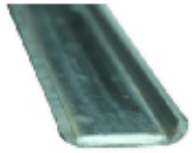




MIVAN ACCESSORIES

32	Dywidag Tie Nut (DTN) (Anchor Nut 100 mm O/D)	
33	Panel Puller	
34	Wall Tie Puller	
35	Podgers (Hole Bari)	
36	225mm Dywidag Pin	
37	Turn Buckle 3/4" x 300 mm Long with 6 mm Dia Wire Rope	
38	Prop Length Adjustable (PLA-250)	
39	Prop Length Adjustable (PLA-350)	



ALUMINUM FORMWORK

MIVAN ACCESSORIES

40	Aluminium Drip Mould	
41	Prop Length (PL)	
42	Concrete Nail (50mm Length)	
43	L Pin	
44	BKS	





ALUMINUM FORMWORK

S.No.	ITEM DESCRIPTION	MATERIAL	APP. WT	FINISH	PRICE/PC	SAMPLE PIC
1	Washer Plate/waller Plate	SHEET METAL		ELECTRPOLATED		
	120X120X4MM		410 GM			
	120X120X5MM		510 GM			
	120X120X6MM		650 GM			
	120X120X8MM		850 GM			
2	Wing Nut	MALLEABLE CASTING		ELECTRPOLATED		
	L & T Type		280 Gm			
	LIGHT DUTY		230 gm			
3	Tie Rod (Size Available as per request)	MILD STEEL	8.5 kg/6 m	NATURAL FINISH		
4	Water Stopper	MALLEABLE CASTING	450-460 gm	ELECTRPOLATED		
5	Rapid Clamp	MALLEABLE CASTING	310-315 gm	BLACK FINISH		
	LIGHT DUTY					
6	Flip Lock Pin (Can be made to order)	STEEL FABRICATION		ELECTRPOLATED		
	16MMX50MM LONG		80 GM			
	12MMX50MM LONG		45 GM			
7	Swivel Coupler 40x40			ELECTRPOLATED		
	HEAVY DUTY	DROP FORGE	1 KG			
	LIGHT DUTY	PRESSED STEEL	800-820 gm			
8	Double Coupler 40x40			ELECTRPOLATED		
	HEAVY DUTY	DROP FORGE	950 GM			
	LIGHT DUTY	PRESSED STEEL	690-700 gm			





ALUMINUM FORMWORK

9	Ledger End	DROP FORGE	200 GM	NATURAL FINISH	
10	Top Cup	MALLEABLE CASTING/DROP FORGED	390-410 gm	NATURAL FINISH	
	3 LEG				
11	Bottom Cup	PRESSED STEEL	180 gm	NATURAL FINISH	
12	Cup Lock Standard	PIPE FABRICATION		BLACK PAINT	
	LENGTH : 2.0 MTRS				
	LENGTH : 2.5 MTRS				
	LENGTH : 3.0 MTRS				
13	Cup Lock Ledger	PIPE FABRICATION		BLACK PAINT	
	LENGTH : 0.9 MTRS				
	LENGTH : 1.2 MTRS				
	LENGTH : 1.6 MTRS				
	LENGTH : 1.8 MTRS				
	LENGTH : 2.5 MTRS				
14	Shuttering Clamp	STEEL FABRICATION		NATURAL FINISH	
	6MM X 25MM X 70CM				
	6MM X 25MM X 90CM				
	6MM X 25MM X 120CM				
	7MM X 25MM X 70CM				
	7MM X 25MM X 90CM				
	7MM X 25MM X 100CM				
	7MM X 25MM X 120CM				
	8MM X 25MM X 70CM				
	8MM X 25MM X 90CM				
	8MM X 25MM X 100CM				
	8MM X 25MM X 120CM				



ALUMINUM FORMWORK

15	Threaded Tube/prop Sleeve (Upto 350 mm Available On Request)	PIPE FABRICATION		NATURAL FINISH	
	with 300 mm sleeve		1.500 KG		
	with 220 mm sleeve		1.100 KG		
16	Prop Nut With Handle	MALLEABLE CASTING/DROP FORGED	400 GM	NATURAL FINISH	
		MALLEABLE CASTING	600 GM	NATURAL FINISH	
17	PROP NUT W/OUT HANDLE	MALLEABLE CASTING	400/550 GM	NATURAL FINISH	
18	JACK NUT	MALLEABLE CASTING	410 gm	NATURAL FINISH	
		DROP FORGE	425 gm		
19	UNIVERSAL JACK	PIPE FABRICATION		NATURAL FINISH	
	450MM/350MM		2.400 KG		
	550MM/450MM		2.700 KG		
	650MM/550MM		3.100 KG		
	750MM/650MM	3.500 KG			
20	Adjustable Base Jack	PIPE FABRICATION		ELECTRPOLATED	
	450MM/350MM		3.200 KG		
	550MM/450MM		3.500 KG		
	650MM/550MM		3.900 KG		
	750MM/650MM	4.300 KG			
21	Anchor Nut	MALLEABLE CASTING		ELECTRPOLATED	
	2-Wing		470 gm		
	3-Wing		640 gm		



ALUMINUM FORMWORK

22	Putlog Coupler	DROP FORGE	630 gm	ELECTRPOLATED	
		PRESSED STEEL	550 gm		
23	Girder Coupler	DROP FORGE	1.35Kg	ELECTRPOLATED	
		PRESSED STEEL	1.250 Kg		
24	Joint Pin/Spigot pin	PRESSED STEEL	650 gm	ELECTRPOLATED/ PAINTED	
		ROUND/SQUARE PIPE- 250 mm	450 gm / 650 gm		
25	Stirrup or U - Head	PIPE FABRICATION	Pipe OD 38 MM	ELECTRPOLATED/ PAINTED	
	100 MM		4.6 Kg		
	150 MM		5.7 Kg		
	200 MM		6.7 Kg		
26	Sleeve Coupler	PRESSED STEEL	0.9-95 Kg	ELECTRPOLATED	
27	L&T Prop Nut	MALLEABLE CASTING	880-900 gm	NATURAL FINISH	
28	Board Retaining Coupler	DROP FORGE	650 gm	ELECTRPOLATED	
		PRESSED STEEL	620 gm		
29	Connector Nut	MILD STEEL	50 mm/ 200 gm	NATURAL FINISH	
			100 mm/ 400 gm		
30	Eyebolt- 1/2x 90	MILD STEEL	For Coupler	NATURAL FINISH	
	Eyebolt- 16 x 65		For C-Clip		
	Eyebolt- 3/4x 65		For Span with Nut		



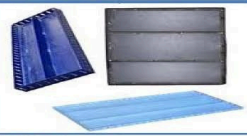






ALUMINUM FORMWORK

31	C-Clip/Clamp	PRESSED STEEL	400 gm	PAINTED	
	Bridge Clip/Clamp	PRESSED STEEL	550 gm		
32	G Pin in 12 mm Round	MILD STEEL	300-320 gm	NATURAL FINISH	
33	Stub Pin without wedge	MILD STEEL	85 gm	ELECTRPOLATED	
			140 gm		
34	Swivel Coupler 40x50 HEAVY DUTY	DROP FORGE	1.25 Kg	ELECTRPOLATED	
	LIGHT DUTY	PRESSED STEEL	850 gm		
35	Double Coupler 40x50 HEAVY DUTY	DROP FORGE	1.1 Kg	ELECTRPOLATED	
	LIGHT DUTY	PRESSED STEEL	750 gm		
36	Swivel Coupler 50x50 HEAVY DUTY	DROP FORGE	1.4 Kg	ELECTRPOLATED	
	LIGHT DUTY	PRESSED STEEL	900 gm		
37	Double Coupler 50x50 HEAVY DUTY	DROP FORGE	1.2 kg	ELECTRPOLATED	
	LIGHT DUTY	PRESSED STEEL	800 gm		
38	LIGHT DUTY PROP, Cup nut, M68	MALLEABLE CASTING	800 gm	NATURAL FINISH	
39	Base Plate	PRESSED STEEL	1 Kg	PAINTED	
40	U-Plate	PRESSED STEEL	850 gm	PAINTED	
41	Gogo Bolt	CI CASTING	175 gm	NATURAL FINISH	
			330 gm		
42	Gogo Machine	PRESSED STEEL	900 gm	PAINTED	



ALUMINUM FORMWORK

43	Cube Mould	CI CASTING	7 Kg	PAINTED	
44	Steel Chalie (Walkway Plank)	PRESSED STEEL	Weight as per order	PAINTED	
45	Shuttering Plate-Slotted/Riveted/Welded	PRESSED STEEL	Weight as per order	PAINTED	
46	Prop Jack System	PRESSED STEEL		PAINTED	
	2x2 m		17.5 kg		
	2x3 m		20.5 kg		
	2x4 m		24 kg		
47	Cupnut	MALLEABLE CASTING	200 gm	NATURAL FINISH	
48	Ladder Clamp	PRESSED STEEL	500 gm	ELECTRPOLATED	
49	Drop Head Wedge Casting	MALLEABLE CASTING	950 gm- 1 Kg	NATURAL FINISH	

Also, Available on request following Items



Fencing Coupler



Roofing Coupler



Timber-walling-clamp



ALUCROFT DYNAMICS
PRIVATE LIMITED

ALUMINUM FORMWORK



PRACTICAL APPLICATION OF ALUMINIUM FORMWORK SYSTEM



CONSTRUCTION SITE OF ALUMINIUM FORMWORK SYSTEM

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