

ACROW
Formwork Technology

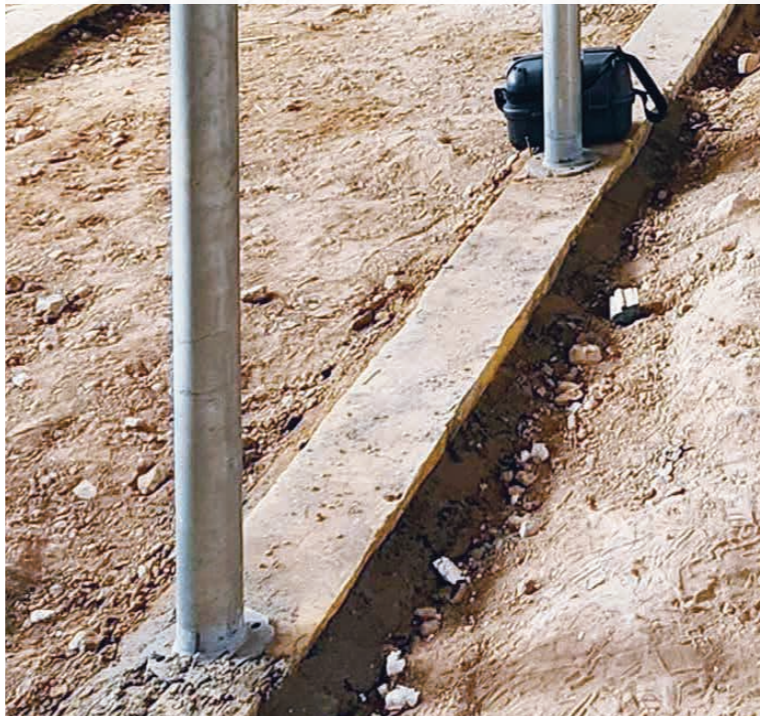
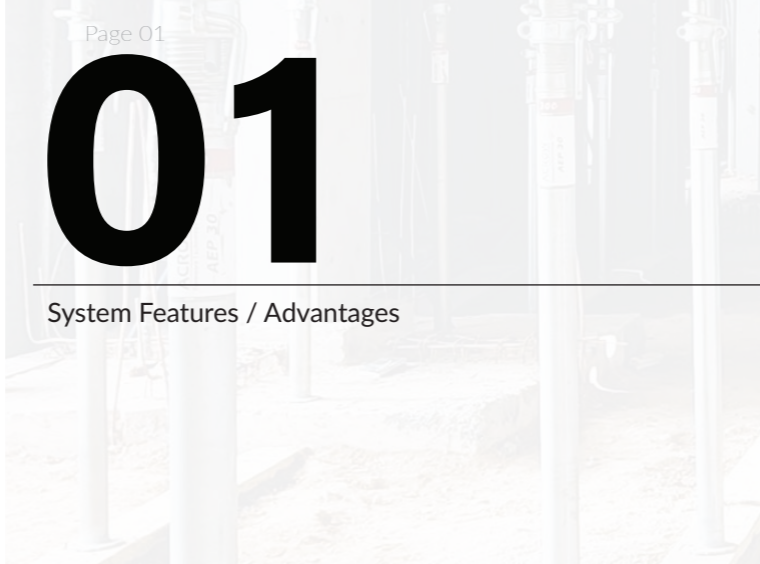


CATALOGUE

ALU-DECK



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Main Components





ACROW ALU-DECK SYSTEM: MODERN EFFICIENCY IN FORMWORK

The **ACROW ALU-DECK** system is an advanced modular aluminum formwork solution designed for efficiency and precision. Featuring lightweight, manhandled panels with minimal components, it ensures quick assembly and dismantling while maintaining the highest safety standards. Its early striking capability significantly reduces waiting times, delivering substantial time and cost savings. Optimized for large areas with uniform layouts and multiple pouring cycles, the ALU-DECK system is equally effective for repetitive housing projects and high-rise buildings. Its innovative design minimizes handling errors and maximizes productivity, making it the ideal choice for modern construction demands.



01 FEATURES / ADVANTAGES

PANELS



- 1- Powder-coated aluminum profile, protecting ACROW board
- 2- ACROW board
- 3- Cross struts for convenient handling

Painting:

Electrostatic powder-coating for panels and beams & Hot dip galvanized heads.

Standard panel covering

ACROW board [12 mm].

Alternative panel covering:

Long-life plywood [LLP] 12 mm.

EARLY STRIKING SYSTEM WITH DROP-HEADS

- The Drop-Head allows a lowering of the Alu-deck system (panels & main beams) up to 7cm. Thus, the Alu-deck components are free for further use in the next cast / floor. This is while the shuttered slab is still supported by the drop-heads and the main shoring system.
- This stripping / striking process is carried out using a hammer blow to open the rotary wedge or spine nut of the drop-head.



Pouring situation



Rotary wedges

striking situation



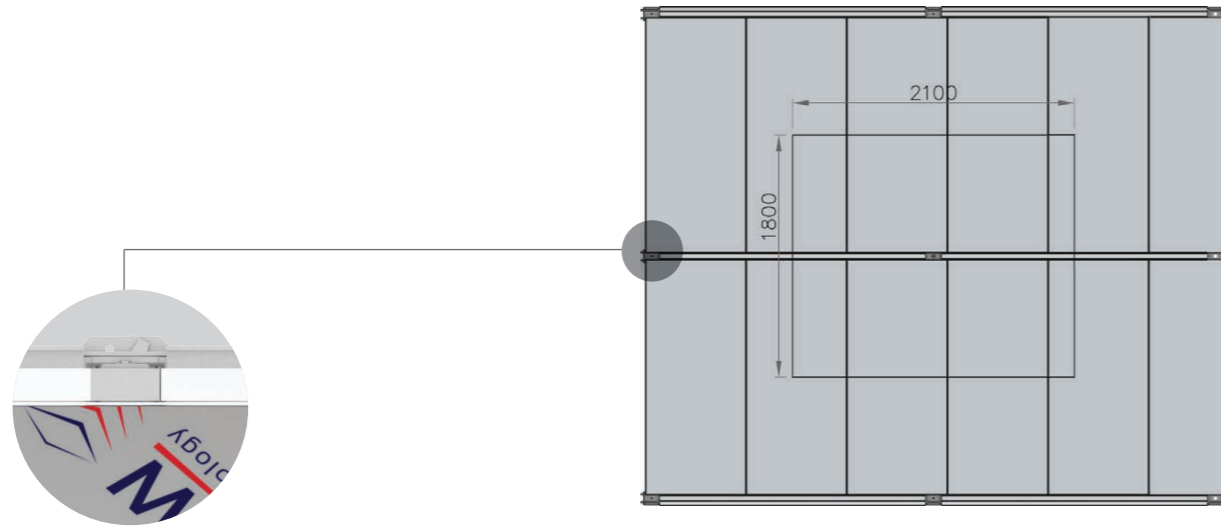
EASE OF ON-SITE OPERATION:

- The Alu-Deck system features a systematic erection method, ensuring fast and effective shuttering times:
- **Weight-Variety** : Alu-Deck is a Lightweight construction system utilizing aluminum components. Even the Heaviest component, the AD Panel (1.80 x 0.75 m), weighs only 24 kg, making it easily handled and assembled.
- **Quick Striking Time**: Striking can be performed as early as 1 day after concreting, depending on slab thickness and concrete strength.
- **Effortless Striking and Cleaning**: Reduced effort in separating panels from concrete.
- **Smooth surfaces**: make cleaning panel boards quick and efficient.



LONG MAIN BEAMS: THE KEY TO FEWER PROPS

Distribution of props in regular Alu-deck slabs is usually spacious, reducing the needed number of props and providing more space for work and for transporting materials. The most common arrangement is 1.80 x 2.10 m which means 3.78 sqm per prop or 0.265 prop per 1 sqm.



SEAMLESS COMPATIBILITY WITH DIVERSE SHORING SYSTEMS

Alu-deck is usually used with Props, but it can be used with several other shoring systems: Aluminium Multi-Props, Ring-Lock, Cuplock & Shorebrace Frames.



02

ALU-DECK VS. FLEX SYSTEM: A PERFORMANCE COMPARISON

	Flex System	Alu-deck
Erection	Many steps and a lot of work to erect main beams, secondary beams and plywood, and nailing the components to each other	Faster erection using ready panels and fewer steps with systematic sequence, smaller margin for error and lighter components
Early Striking	Not available	Available - allowing fewer materials and faster concreting cycle
No. of Props	Lot of props with small grid and small distances in between	Fewer props with large grid and proper space for work
Labor cost	High due to long working hours and harder erection sequence	Low due to fast and systematic sequence, light materials and fewer components
Materials cost	Low	Initially high, but lower on the long run due to early striking
Concrete finish	Regular finish	Fair-face finish

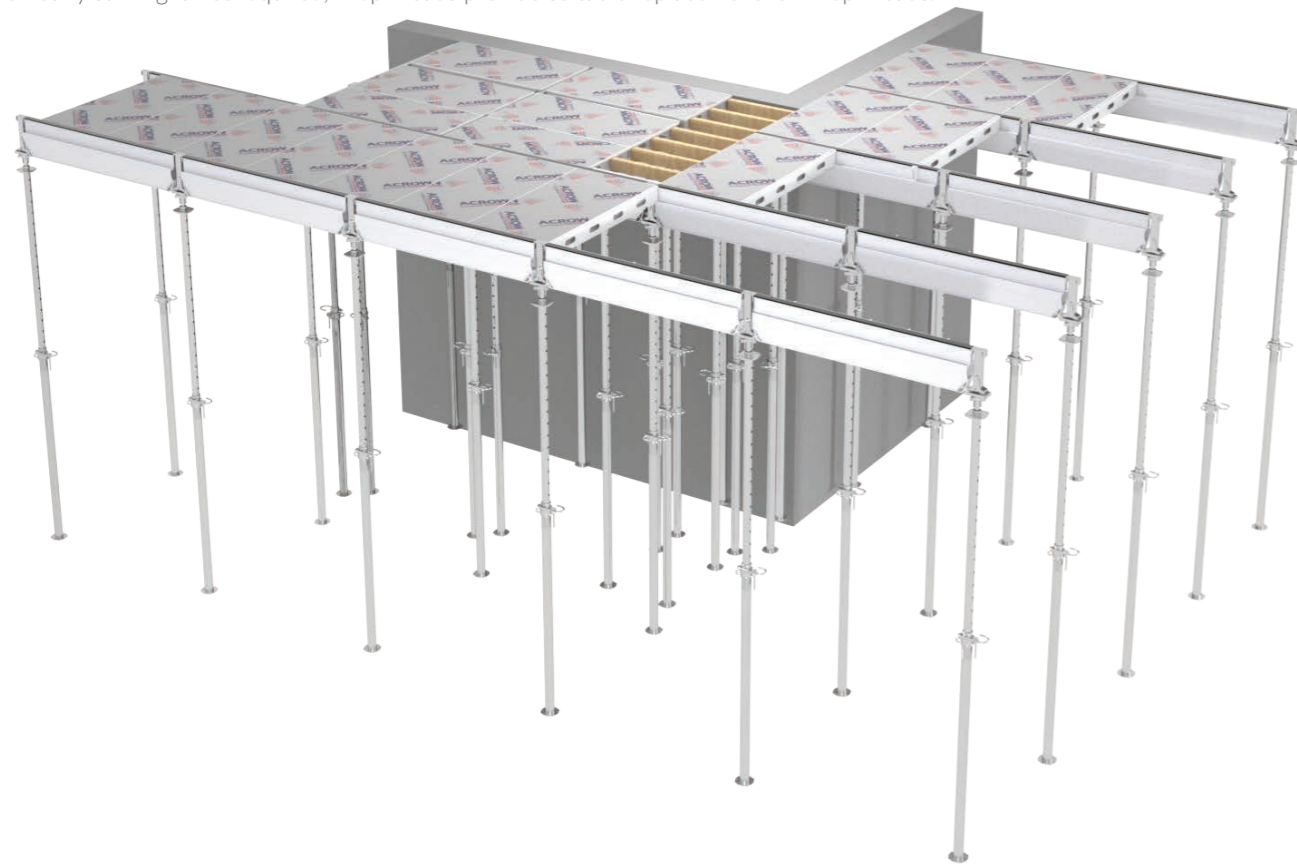


03

DIFFERENT METHODS OF
ALU-DECK SYSTEM [PMD – MIP]

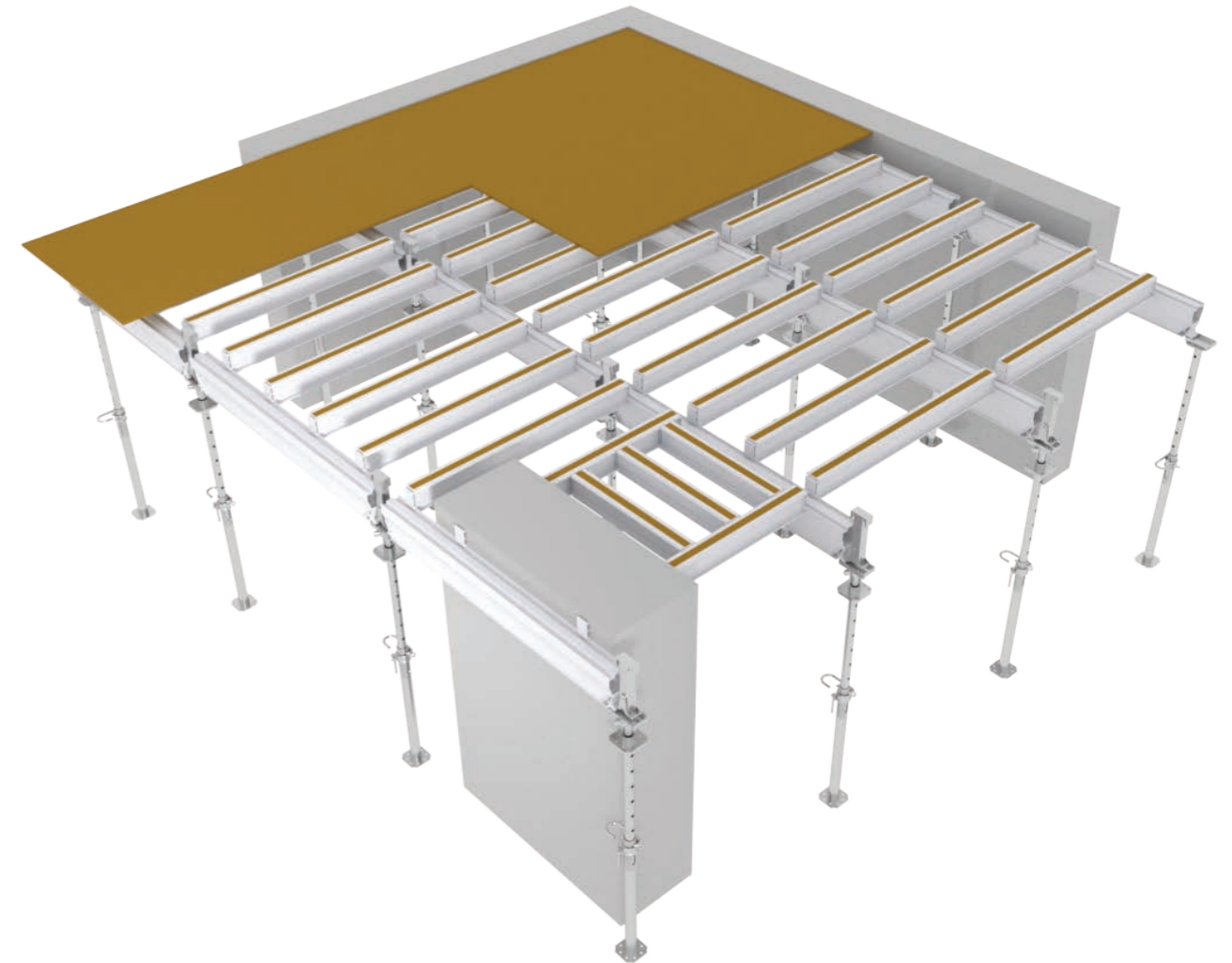
[A] PMD METHOD [PANEL – MAIN BEAM – DROP HEAD]:

- This is the most common method. It depends on using Main Beams supported by Drop-Heads for early striking, then Alu-deck - Panels are placed over the Main Beams.
- The Panels are implemented with Acrow Board sheets.
- The Panels are placed totally independent from the position of the Drop-Head and the length of the Main Beams.
- The Drop-Head allows early striking of Panels & Main Beams.
- The space between Panels – caused by the Drop-Head – is closed using Filler Beams as part of the system.
- When early striking is not required, Prop-Heads provide suitable replacement for Drop-Heads.



[B] MIP METHOD [MAIN BEAM – INFILL BEAM – PLYWOOD]

- This method utilizes a Main Beam supported by Drop-Heads, but without the use of Panels. Instead, Infill Beams function as secondary girders.
- Plywood / ACROW Board sheets can be placed over all parts.
- The Drop-Head system facilitates early striking of both Main Beams and Infill Beams.





04

PRODUCT RANGE

PANELS

- There are **10** different sizes of panels:
- Panel Lengths: 75 / 90 / 150 / 180 cm
- Panel Widths: 30 / 60 / 75 cm

Width [m]	Length [m]			
	0.75	0.90	1.50	180
0.30		●	●	●
0.60	●	●	●	●
0.75	●		●	●

MAIN BEAMS

- Main Beam Lengths: 120 / 150 / 180 / 210 / 240 / 330 cm
- The main beams are made of lightweight, especially formed Aluminium profiles and powder-coated. Infill beams and panels can be hooked directly and continuously on the main beams.



HEADS TYPES

Drop-Head

This is the main head used for early striking with either PMD or MIP methods.



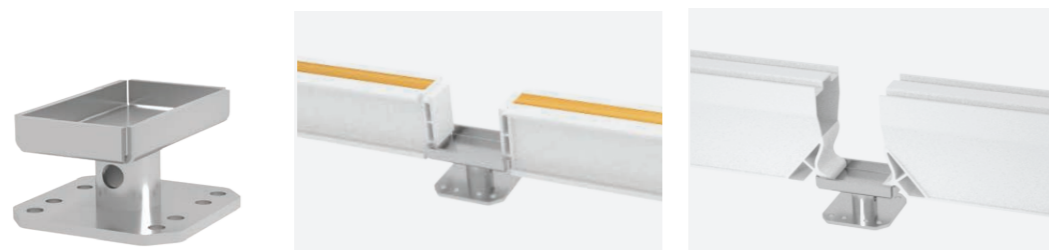
Beam-Head

This is used at the end of main beam rows, where there is no need for Drop Heads next to concrete columns, walls, beams, or slab edges.



Prop-Head

This is also used with either PMD or MIP methods, to support the main beams rows adjacent to the walls, where there is no need for Drop Heads as the walls will be supporting the load. It can also support infill beams directly.

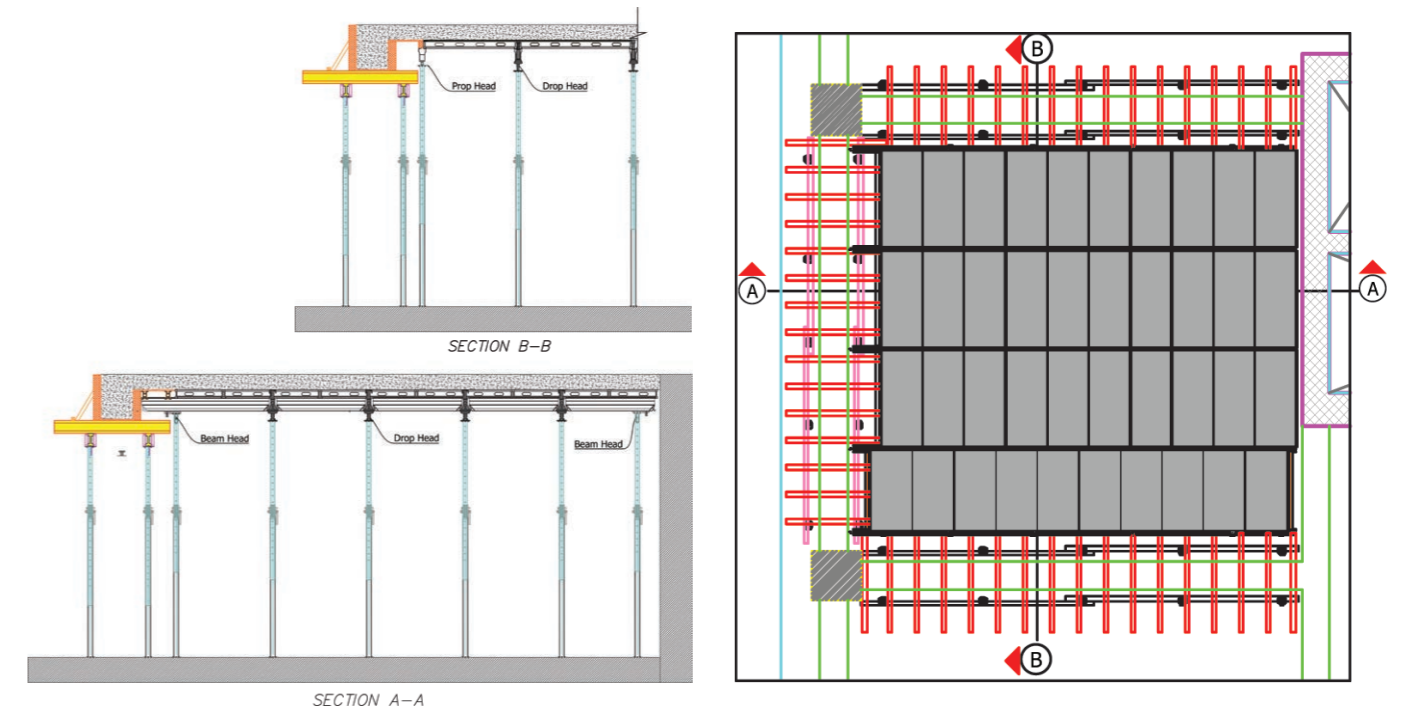


Panel-Head

This head is attached directly to Alu-deck panels. It is the main head used for Panel method. For PMD & MIP methods: used to support panels at fillers.



HEAD TYPES: PRACTICAL DESIGN EXAMPLES



INFILL BEAMS

- **Infill Beam Lengths:** 90 / 120 / 150 / 180 cm
- A high-quality aluminium profile. It has different functions according to the method used:
- For PMD & Panel methods, it is used for longitudinal & transverse infilling to close the gaps. It is also used for infilling around columns.
- For MIP method, it is used as secondary girders over the main beams. Plywood / Acrow Board sheets are fixed to it.



FILLER BEAMS

- **Filler Beam Lengths:** 60 / 90 / 120 / 150 / 180 / 210 / 225 / 240 / 360 cm
- Aluminium or timber beams to fill the gap between Alu-deck panels as a system part.



05

ASSEMBLY
METHOD STATEMENT

ASSEMBLING ALU-DECK (PMD METHOD)

I. Preparation and Initial Erection

- 1- Begin at the designated corner location. Erect the first set of four props with prop legs in accordance with the layout specified in the shop drawings.
 - The props should be pre-assembled with Alu-deck heads using bolts for optimal stability.
 - Each prop must be pre-set to the correct measurement as per floor height.
- 2- Head Types:
 - Utilize Beam-Heads at the Main Beam wall-side end and Drop-Heads at the interior end.
 - Support the Main Beam line adjacent to the wall using Prop-Heads.

**II. Main Beam and Panel Placement**

- Position the Main Beams over the heads, ensuring that panels are placed across the first two Main Beams to establish initial stability.

**III. Further Prop and Head Erection**

- Proceed to erect the next set of props and heads.
- Employ Drop-Heads for the middle supports to facilitate early striking procedures.

**IV. Continuation of Erection**

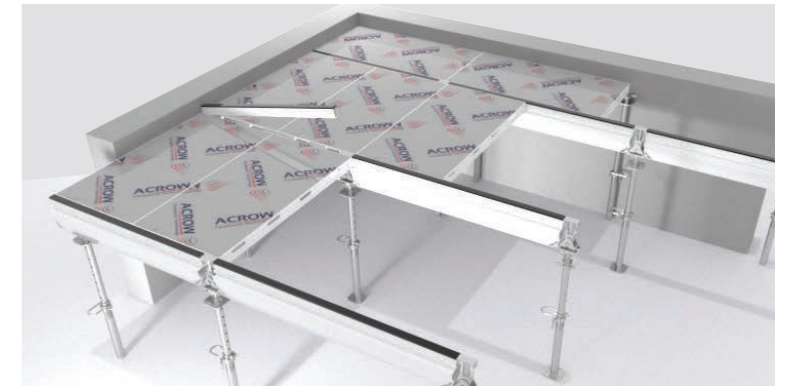
- Continue the erection process for Main Beams and panels, maintaining alignment and stability throughout.

**V. Prop Leg Removal**

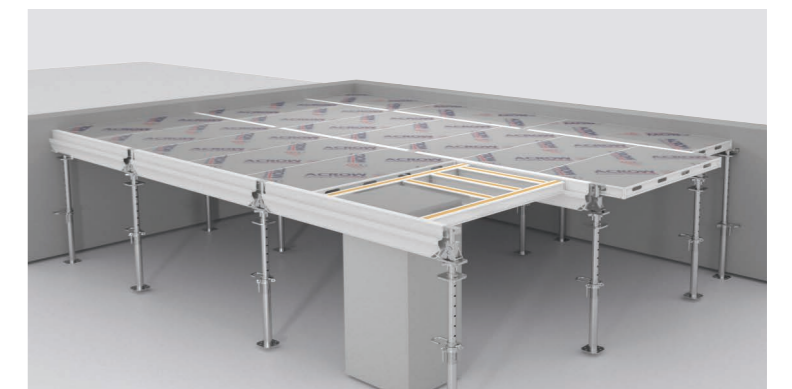
- Once the previous set of props is adequately covered with panels and has achieved the required stability, prop legs from that set may be removed.
- Relocate the prop legs to the newly erected set of props.

**VI. Insertion of Filler Beams**

- Insert Filler Beams in alignment with the Drop-Heads between the panels to close the gaps.

**VII. Completion of Infill Areas**

- Finalize all infill areas as the last step of the erection process.



06

SITE APPLICATIONS

[a] PANEL MOVEMENT

The Panels are placed totally independent from the position of the Drop-Head and the length of the Main Beams (they bypass the Drop-Head).

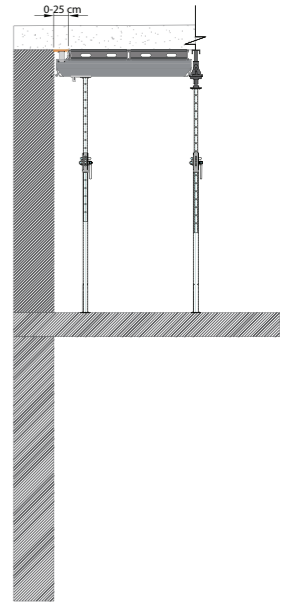


[b] COMPENSATION / INFILL AREAS

1- Longitudinal with the Main-Beams direction

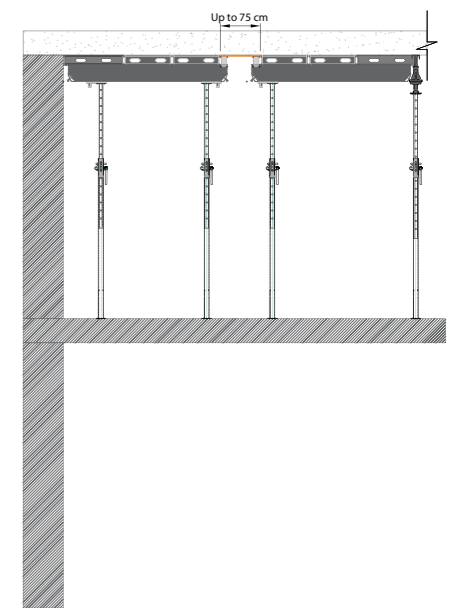
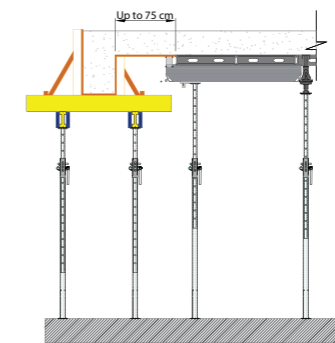
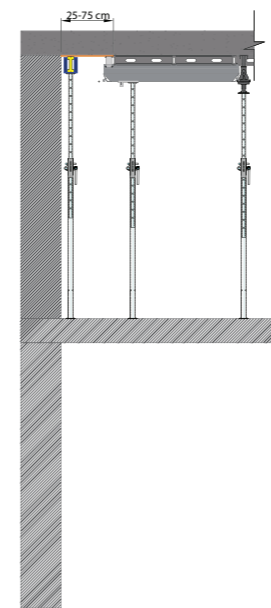
[a] From 0 - 25 cm:

Using Infill Beam or a timber beam at the end of the Main Beams + AD Plywood Support.

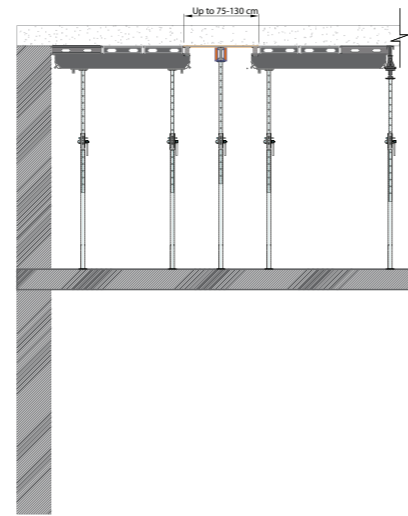


[b] From 25 - 75 cm:

- In case of side filler: using Infill Beam or a timber beam at the end of the Main Beams + a line of H20 & props
- In case of middle filler: using Infill Beams / timber beams from both ends of the Main Beams

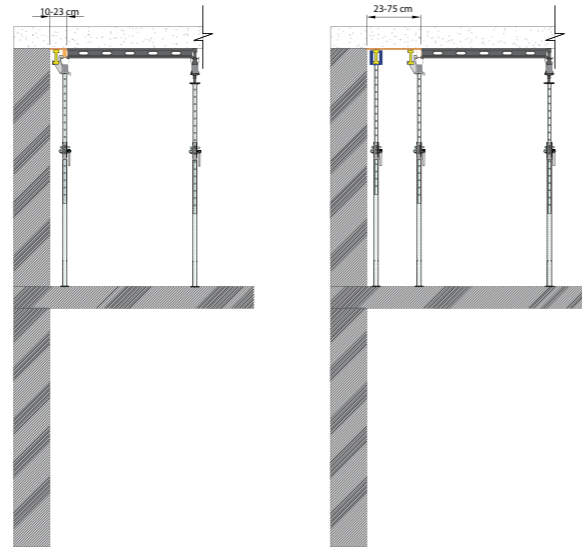


[c] From 75 – 130 cm (only with middle compensation / filler):
Using the same components as above, plus a line of H20 & props in the middle.

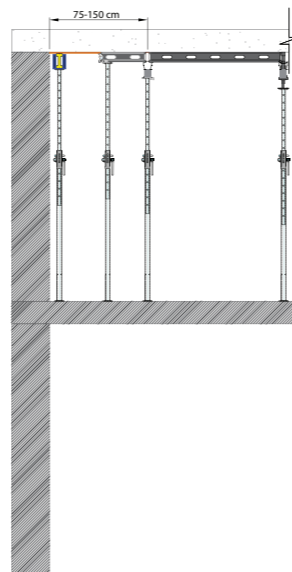


2- Transversal (parallel) to the Main-Beams:

[a] From 10 – 75 cm:
Using AD Wood Support & a line of H20 & props.

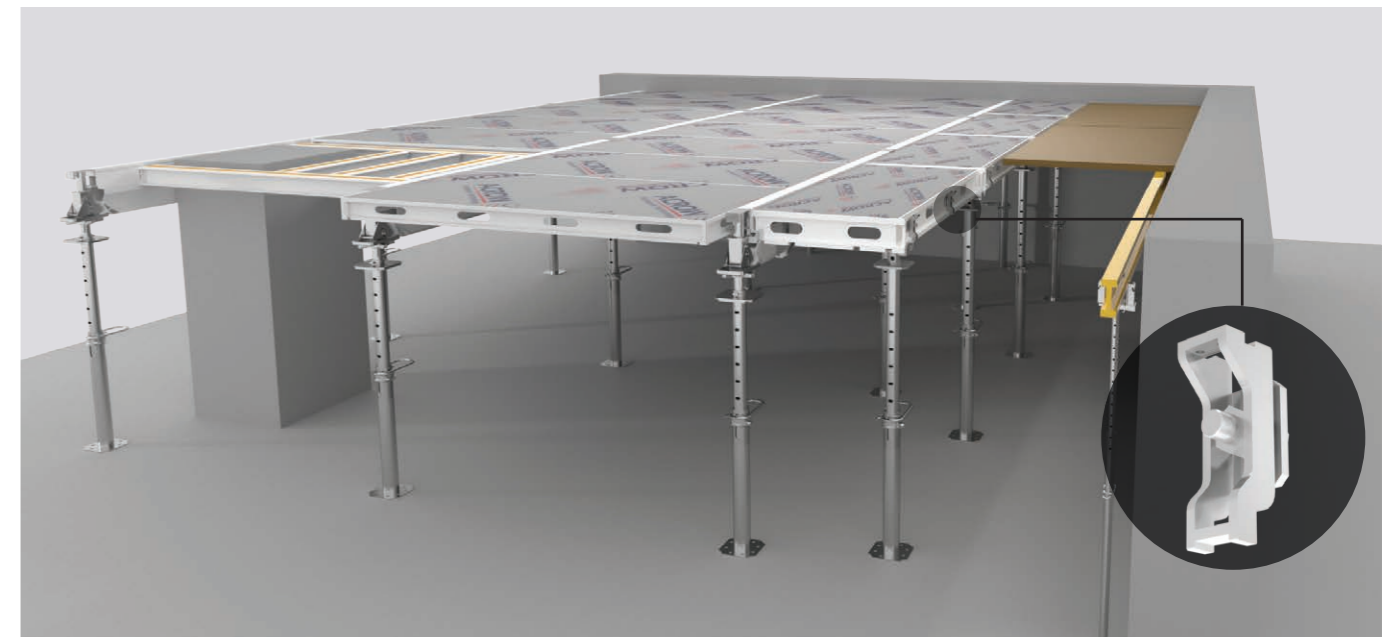
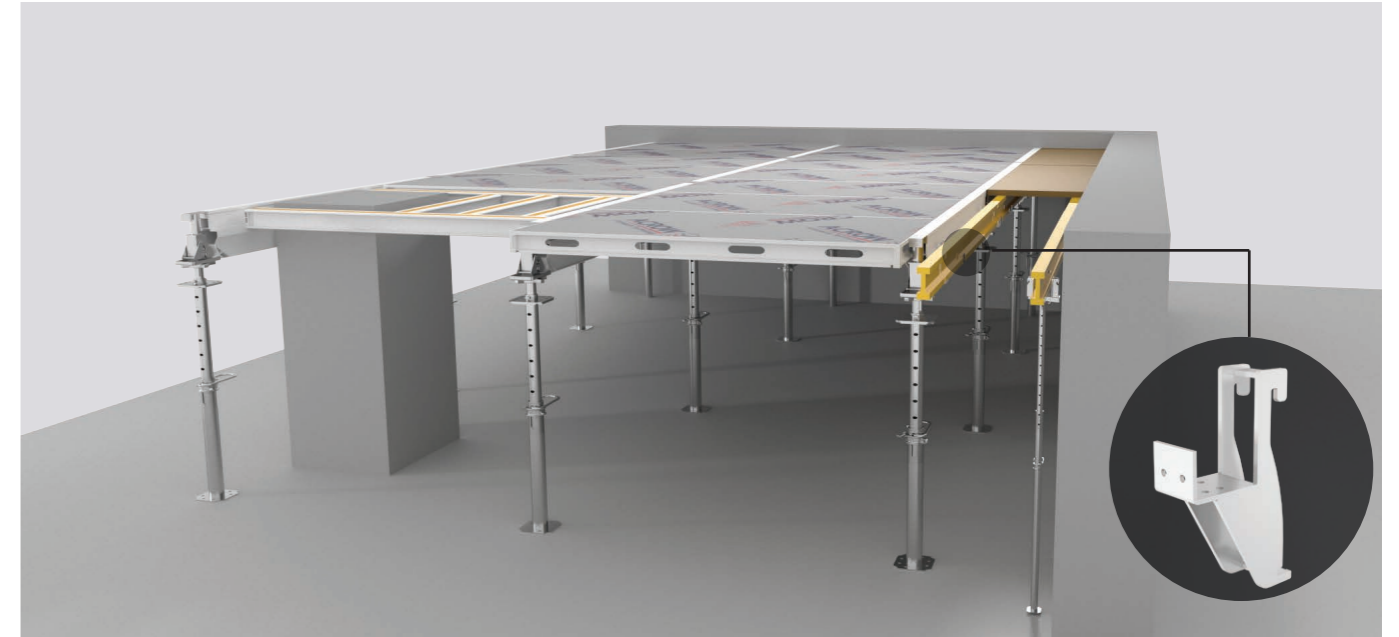


[b] From 75 – 150 cm:
Using transversal panels (with Panel Head), AD Plywood Support & a line of H20 & props.



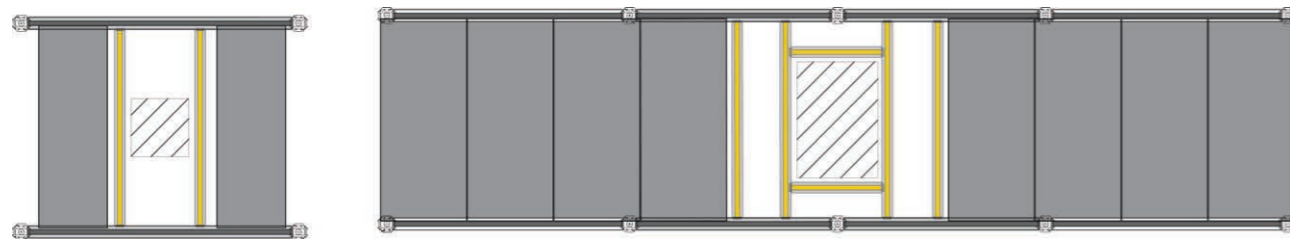
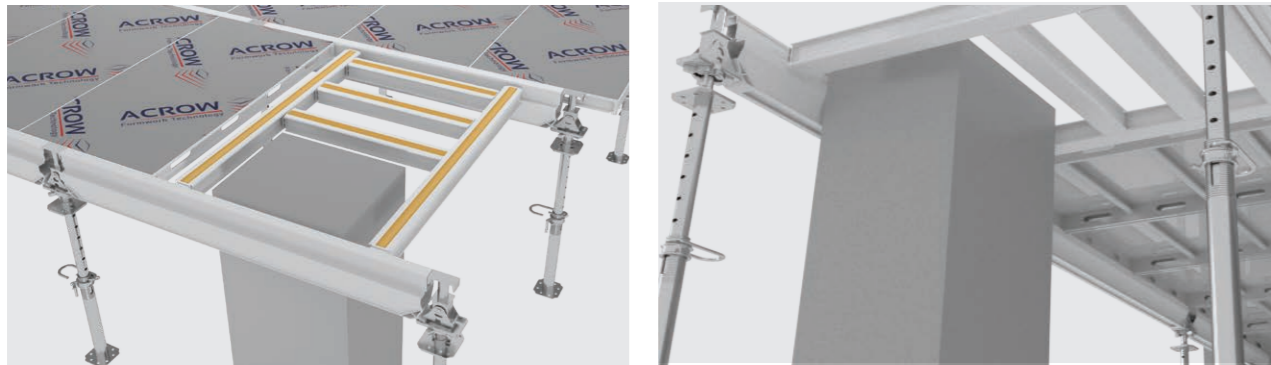
[c] WOOD SUPPORT / PLY SUPPORT

AD Wood Support & AD plywood Support are used to support plywood strips within infill areas.
AD Wood Support is hanged from the Main Beam and carries an H20 girder, while AD Plywood Support is attached to Aludeck Panels and supports the plywood strips directly.



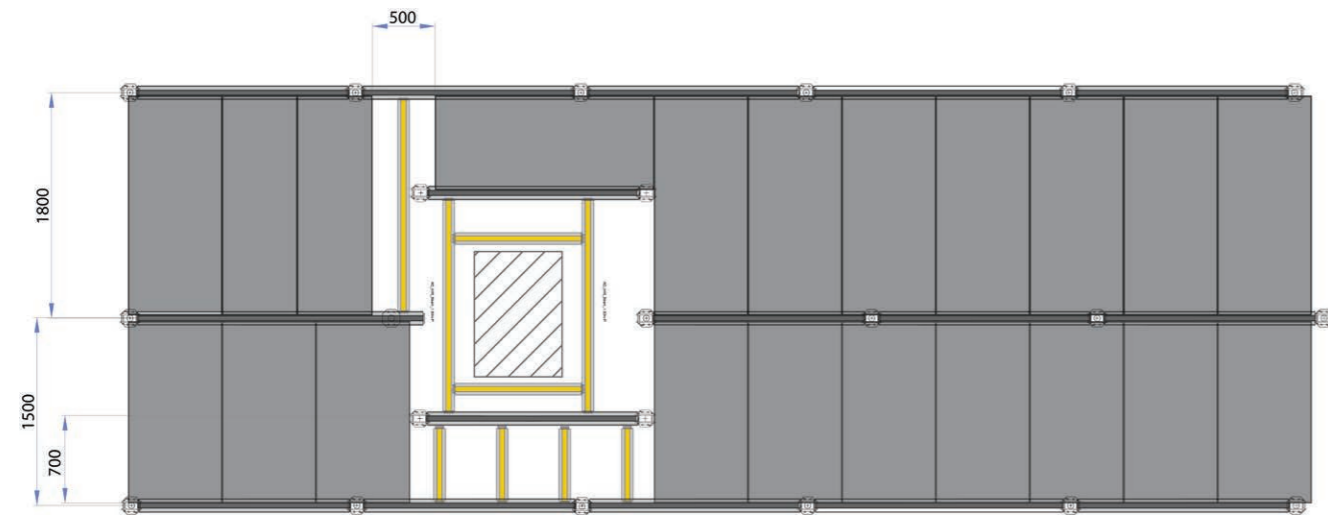
[d] FORMING AROUND COLUMNS

Using Infill Beams in both directions (as main & secondary girders) and plywood strips.



a) Column intersecting with 1 panel

b) Column intersecting with multiple panels

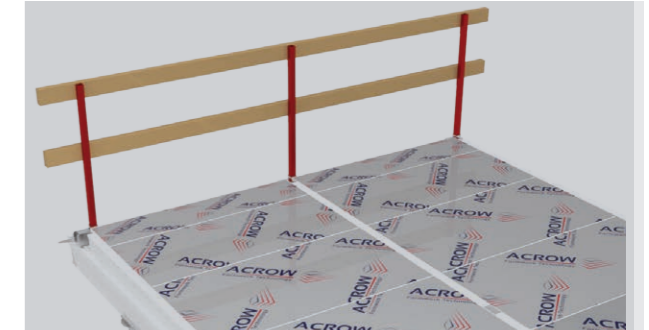


c) Column intersecting with Main Beam line

[e] AT FREE EDGES

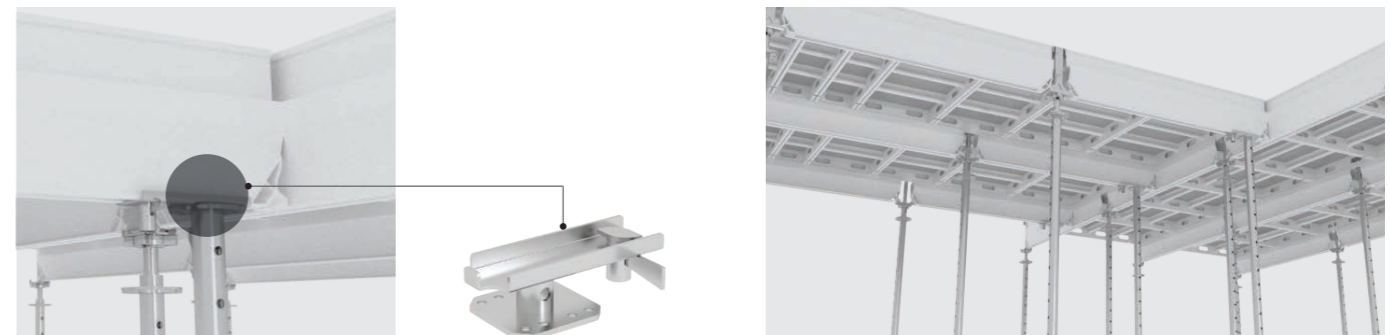
To enhance construction efficiency and workers safety, it is recommended to orient the Alu-deck Main Beams perpendicular to the free edge of the slab. This configuration provides the following advantages:

- Improved Workability: A cantilevered Main Beam beyond the slab edge creates a working platform, facilitating the shuttering of slab sides.
- Enhanced Safety: A dedicated working area minimizes the risk of workers operating near the slab edge.

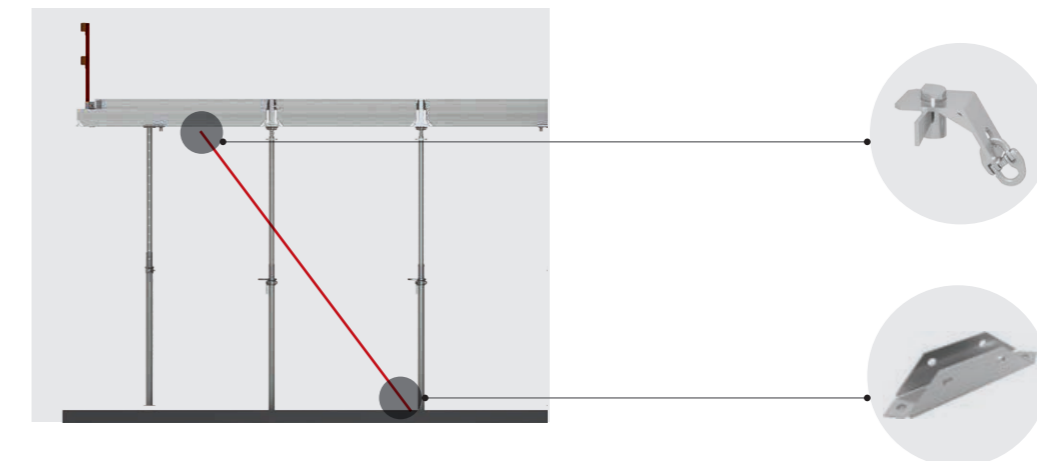


In certain cases, adhering to this recommendation may necessitate:

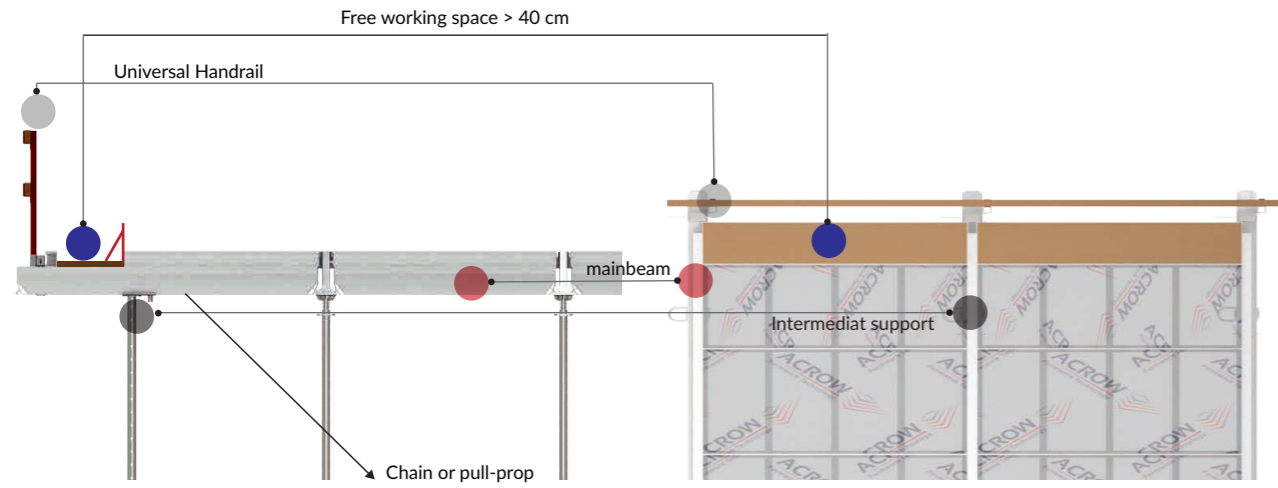
Adjusting Main Beam Direction: Reorienting Main Beams to achieve the desired perpendicular alignment.
 Connecting Perpendicular Beams: Employing AD Beam Head to securely connect perpendicular Main Beams, ensuring structural integrity.



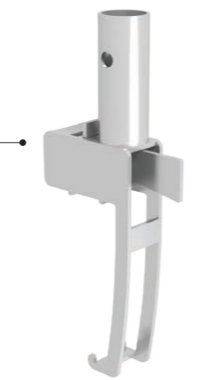
To enhance safety, the cantilevered Main Beam is stabilized by a chain connected to the beam with an AD Chain Connection. The chain is anchored to the ground using a standard base plate.



[f] SAFETY HANDRAILS



This handrail-connector is also used with panels as a stopper at the end. It can then be directly plugged with handrail as side protection.



handrail-connector

[g] ERECTION TOOLS

The AD Erection Tool facilitates the lifting of Alu-deck Panels from below the ceiling to their designated position on the Main Beams



[h] STORAGE & TRANSPORTATION

- To facilitate and organize the erection works on site and decrease the crane lifts as much as possible, AD Stacking Devices & Pallets are used.
- 4 Stacking Devices assembled together can take up to 7 panels of the same size. Stacking Pallets are ready to use for up to 9 panels of the same size.
- Stacking Devices / Pallets can be handled by crane or forklift. It can be stacked vertically for efficient storage.



Stacking Devices

Stacking Devices stacked vertically

Stacking Pallet

[i] ACROW BOARD



WATER RESISTANT FIRE RESISTANT INSECT RESISTANT EASY TO INSTALL DURABLE CIRCULAR ECONOMY EASY TO CLEAN COST EFFECTIVE

SPECIAL CLIENT BENEFITS

Formwork stripping

ACROW-BOARD is a non-stick formwork material that can be easily stripped from concrete without the need for a release agent. This leaves a clean and superior smooth concrete surface.

Physical Performance

Can withstand moisture, and fire.

Site Requirement

No special tools or equipment needed when working with the ACROW-BOARD. Traditional timber tools, nails, saw hammer...etc. are used.



07 DESIGN TABLES

ALU-DECK TABLES FOR DIFFERENT ARRANGEMENTS

Distance between main beams [a] = 180 cm

Slab Thickness [cm]	Total load q [kN/M ²]	Main beam 120		Main beam 150		Main beam 180		Main beam 210		Main beam 225		Main beam 240	
		PL [kN]	▲ [mm]	PL [kN]	▲ [mm]	PL [kN]	▲ [mm]	PL [kN]	▲ [mm]	PL [kN]	▲ [mm]	PL [kN]	▲ [mm]
12	4.9	10.6	0.22	13.2	0.53	15.9	1.10	18.5	2.04	19.8	2.69	21.2	3.48
14	5.4	11.7	0.24	14.6	0.59	17.5	1.21	20.4	2.25	21.9	2.96	23.3	3.84
16	5.9	12.7	0.26	15.9	0.64	19.1	1.33	22.3	2.46	23.9	3.24	25.5	4.19
18	6.4	13.8	0.28	17.3	0.69	20.7	1.44	24.2	2.67	25.9	3.51	27.6	4.55
20	7.0	15.1	0.31	18.9	0.76	22.7	1.57	26.5	2.92	28.4	3.84	30.2	4.98
22	7.5	16.2	0.33	20.3	0.81	24.3	1.69	28.4	3.12	30.4	4.12	32.4	5.33
24	8.0	17.3	0.36	21.6	0.87	25.9	1.80	30.2	3.33	32.4	4.39	34.6	5.69
26	8.5	18.4	0.38	23.0	0.92	27.5	1.91	32.1	3.54	34.4	4.67	36.7	6.04
28	9.0	19.4	0.40	24.3	0.98	29.2	2.02	34.0	3.75	36.5	4.94	39.9	6.40
30	9.6	20.7	0.43	25.9	1.04	31.1	2.16	36.3	4.00	38.9	4.27	41.5	6.82
32	10.0	21.6	0.44	27.0	1.08	32.4	2.25	37.8	4.17	40.5	5.49	43.2	7.11
34	10.6	22.9	0.47	28.6	1.15	37.3	2.38	40.1	4.42	42.9	5.82	45.8	7.53
36	11.2	24.2	0.50	30.2	1.21	36.3	2.52	42.3	4.67	45.4	6.15	48.4	7.96

Distance between main beams [a] = 150 cm

Slab Thickness [cm]	Total load q [kN/M ²]	Main beam 120		Main beam 150		Main beam 180		Main beam 210		Main beam 225		Main beam 240	
		PL [kN]	▲ [mm]	PL [kN]	▲ [mm]	PL [kN]	▲ [mm]	PL [kN]	▲ [mm]	PL [kN]	▲ [mm]	PL [kN]	▲ [mm]
12	4.9	8.8	0.18	11.0	0.44	13.2	0.92	15.4	1.70	16.5	2.26	17.6	2.90
14	5.4	9.7	0.20	11.2	0.49	14.6	1.01	17.0	1.87	18.2	2.49	19.4	3.20
16	5.9	10.6	0.22	13.3	0.53	15.9	1.11	18.6	2.05	19.9	2.72	21.2	3.49
18	6.4	11.5	0.24	14.4	0.58	17.3	1.20	20.2	2.22	21.6	2.96	23.0	3.79
20	7.0	12.6	0.26	15.8	0.63	18.9	1.31	22.1	2.43	23.6	3.23	25.2	4.15
22	7.5	13.5	0.28	16.9	0.68	20.3	1.41	23.6	2.60	25.3	3.46	27.0	4.44
24	8.0	14.4	0.30	18.0	0.72	21.6	1.50	25.2	2.78	27.0	3.69	28.8	4.74
26	8.5	15.3	0.31	19.1	0.77	23.0	1.59	26.8	2.95	28.7	3.93	30.6	5.03
28	9.0	16.2	0.33	20.3	0.81	24.3	1.69	28.4	3.12	30.4	4.16	32.4	5.33
30	9.6	17.3	0.36	21.6	0.87	25.9	1.80	30.2	3.33	32.4	4.43	34.6	5.69
32	10.0	18.0	0.37	22.5	0.90	27.0	1.87	31.5	3.47	33.8	4.62	36.0	5.92
34	10.6	19.1	0.39	23.9	0.96	28.6	1.99	33.4	3.68	35.8	4.89	38.2	6.28
36	11.2	20.2	0.41	25.2	1.01	30.2	2.10	35.3	3.89	37.8	5.17	40.3	6.63

Early striking table:

Stripping time for Alu-deck system using Drop Head according to DIN 1045. Panels, Main Beams & Infill Beams can all be early-stripped.

Average Daily Temperature (°C)	20°	10°	5°	0°
Recommended stripping times for main beams, secondary beams, and elements depending on the minimum concrete strength (days)	2	3	4	5
The table values apply to Cement Z 32.5 F and correspond to a required minimum strength of 8 N/mm ² .				
Deviations from these values are permitted if supported by static individual proofs.				

Minimum concrete strength and striking time guidelines for drophead system

Slab thickness d[m]	Required concrete strength f _{ct} , [N/mm ²]	Guide values for striking time [days] for panels and main beams at average curing temperature [C°] of		
		5°	10°	20°
0.14	15	10	6	5
0.16	13	8	5	4
0.18	11	6	4	3
0.20	9	5	3	2
0.22	8	4	3	2
0.25	7	4	2	2
0.30	6	3	2	2
0.35	5	3	2	1
0.40-0.95	5	2	1	1



Prop loads:

[a] ACROW Euro-Prop table:

Hight(m)	AEP D-500		AEP D-450		AEP D-400		AEP E-350		AEP E-300	
	Inner up	Outer up	Inner up	Outer up	Inner up	Outer up	Inner up	Outer up	Inner up	Outer up
5.00	23	27								
4.90	24	28								
4.80	25	30								
4.70	26	31								
4.60	27	32								
4.50	28	34	24	29						
4.40	29	35	25	30						
4.30	31	37	27	32						
4.20	32	39	28	33						
4.10	34	40	29	35						
4.00	35	40	31	37	23	27				
3.90	37	40	32	39	24	29				
3.80	39	40	34	40	25	30				
3.70	40	40	36	40	26	32				
3.60	40	40	38	40	28	34				
3.50	40	40	40	40	30	36	30	36		
3.40	40	40	40	40	31	38	32	38		
3.30	40	40	40	40	33	40	34	40		
3.20	40	40	40	40	35	40	36	40		
3.10	40	40	40	40	38	40	38	40		
3.00	40	40	40	40	40	40	40	40	30	36
2.90			40	40	40	40	40	40	32	39
2.80			40	40	40	40	40	40	34	40
2.70			40	40	40	40	40	40	37	40
2.60			40	40	40	40	40	40	40	40
2.50			40	40	40	40	40	40	40	40
2.40					40	40	40	40	40	40
2.30					40	40	40	40	40	40
2.20					40	40	40	40	40	40
2.10							40	40	40	40
2.00							40	40	40	40
1.90									40	40
1.80									40	40
1.70									40	40

[b] ACROW Eco-Prop table:

Hight(m)	ECO B-350		ECO B-300	
	Inner up	Outer up	Inner up	Outer up
3.50	13	16		
3.40	14	17		
3.30	15	18		
3.20	15	19		
3.10	17	21		
3.00	18	22	15	19
2.90	19	24	16	20
2.80	20	25	17	22
2.70	22	27	19	23
2.60	23	29	20	25
2.50	25	32	22	27
2.40	28	34	24	30
2.30	30	34	26	32
2.20	34	34	28	35
2.10			31	39
2.00			34	43
1.90			34	34







08

MAIN COMPONENTS



Item	Description	Code no.	Weight (kg)
AD Main Panel			
	AD Main Panel 1.80x0.75m	6221177130633	24.00
	AD Main Panel 1.80x0.60m	6221177130626	20.50
	AD Main Panel 1.80x0.30m	6221177130619	13.75
	AD Main Panel 1.50x0.75m	6221177130602	20.20
	AD Main Panel 1.50x0.60m	6221177130596	17.30
	AD Main Panel 1.50x0.30m	6221177130589	11.60
	AD Main Panel 0.90x0.60m	6221177130572	11.30
	AD Main Panel 0.90x0.30m	6221177130565	7.40
	AD Main Panel 0.75x0.75m	6221177130558	11.10
	AD Main Panel 0.75x0.60m	6221177130541	9.40
AD Main Beam			
	AD Main Beam 1.20m	6221177130640	8.85
	AD Main Beam 1.50m	6221177130657	11.15
	AD Main Beam 1.80m	6221177130664	13.45
	AD Main Beam 2.10m	6221177130671	15.75
	AD Main Beam 2.40m	6221177130688	18.05
	AD Main Beam 3.30m	6221177130695	24.95
AD Infill Beam			
	AD Infill Beam 0.90m	6221177130701	6.10
	AD Infill Beam 1.20m	6221177130718	8.30
	AD Infill Beam 1.50m	6221177130725	10.50
	AD Infill Beam 1.80m	6221177130732	12.70

Item	Description	Code no.	Weight (kg)
AD Filler Beam			
	AD Filler Beam 0.60m	6221177130749	1.00
	AD Filler Beam 0.90m	6221177130756	1.60
	AD Filler Beam 1.20m	6221177130763	2.25
	AD Filler Beam 1.50m	6221177130770	2.85
	AD Filler Beam 1.80m	6221177130787	3.50
	AD Filler Beam 2.10m	6221177130794	4.10
	AD Filler Beam 2.25m	6221177130800	4.40
	AD Filler Beam 2.40m	6221177130817	4.70
	AD Filler Beam 3.60m	6221177130824	7.15
	AD Drop Head		
		6221177130831	7.10
AD Prop Head			
		6221177130848	2.35
AD Beam Head			
		6221177130855	2.80

Item	Description	Code no.	Weight (kg)
	AD Panel Head		
		6221177130862	2.05
	Bolt M12 x 50 mm		
		2012090028675	0.06
	Nut M12		
		2012210029762	0.02
	Universal Handrail 1.70m		
		6221177214715	6.20

Item	Description	Code no.	Weight (kg)
	AD Handrail Connection		
		6221177130879	3.25
	AD Wood Support		
		6221177154431	1.53
	AD Plywood Support		
		6221177154431	0.60
	AD Chain Connection		
		6221177172725	1.20

Item	Description	Code no.	Weight (kg)
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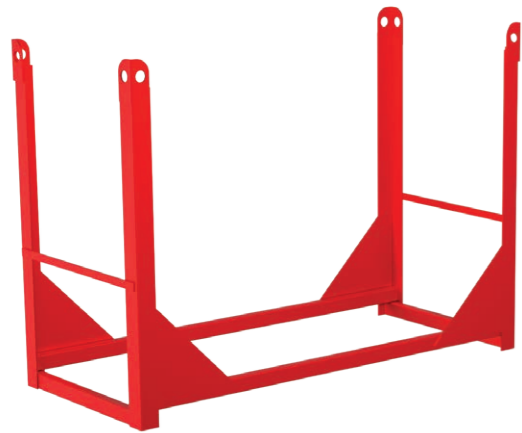
AD Erection Tool			
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		6221177199494	
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AD Stacking Pallet			
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AD Stacking Pallet (1.80x0.75)m	6221177172459	67.00
AD Stacking Pallet (1.50x0.75)m	6221177161545	57.00



AD Stacking Device			
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		6221177141769	9.2
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Memo

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OFFICE

14

BRANCH

AFRICA

EGYPT

Head Quarter
Factory: Wady Houf, Helwan
Tel.: [+202] 23690 616 / 23690 739
[+202] 23695 700 / 23699 976
Fax: [+202] 23695 260
E-mail: info@acrow.co

Alexandria Branch
27 Dr. mahmoud Daoud st.
Tel.: [+203] 4200 289
E-mail: acrowalex@acrow.co

MOROCCO

221 BVD Zerktoni , 3ème et 4ème
etage - B.N. 06/08, Casablanca
20100, Morocco
Tel. : [+212] 522 945 912
Mob. : [+212] 660 675 640
E-mail: acrowmorocco@acrow.co

ALGERIA

Siege Social, cité des travailleurs lot. 09
groupe 02 Dar El beida, Algiers
Tel.: +213 (0) 23 74 74 37
Tel.: +213 (0) 23 74 74 35
Fax: +213 (0) 23 74 74 37
E-mail: acrow-dz@acrow.co

NIGERIA

Block D, Plot 23, Water Corporation
drive, VI, Lagos.
Tel. : [+234] 818 0000 295
Mob. : [+234] 6061 7290 99
Email : acrownigeria@acrow.co

KENYA

Nairobi
Kiungani Rd, off Mombasa Rd,
Nairobi, Kenya
Tel. : [+254] 772324535
E-mail: acrowkenya@acrow.co

TANZANIA

Dar EsSalam
Oyster Bay Masaki, Dar EsSalam
Tel. : [+255] 768 696 314
E-mail: acrowtanzania@acrow.co

ASIA

KSA

Riyadh
Office No. 13A- Sultan Business Building
- Almaathar Ash shamali district - Sultan
Ben Abdulaziz Street - Riyadh
Tel. : [+966] 11 216 0504
Fax : [+966] 11 216 0503
Mob. : [+966] 55 001 2693
E-mail: acrowriyadh@acrow.co

Jeddah

Office No. 15 - 4th Floor - Zahid
Building - Alsalamah district - Mohamed
Ibrahim Masoud Street - Jeddah
Tel. : [+966] 12 691 7941
Fax : [+966] 12 275 1037
Mob. : [+966] 50 001 3206
E-mail: acrowjeddah@acrow.co

Dammam

Office 2, Alsalam Building, Madinat
Alummal Dist., King Fahd Road
Tel. : [+966] 13 805 4151
Fax : [+966] 11 216 0503
Mob. : [+966] 55 468 7057
E-mail: dammam@acrow.co

Madinah Al Munawwarah

Office 6, First Floor, Ghos Building, In
Front Of Saudi Post, Sultanah Street,
Almadinah
Tel. : [+966] 11 216 0504
Fax : [+966] 11 216 0503
Mob. : [+966] 55 775 8197
E-mail: almadinah@acrow.co

Tabuk

Al Muruj District
Prince Mamdouh Bin Abdul Aziz Street
Building Name : Tabuk Business Center
Building No.2786
PO.Box : 47312
Second Floor , Office No.203
Tel. : [+966] 11 216 0504
Fax : [+966] 11 216 0503
Mob. : [+966] 55 001 2693
E-mail: acrowriyadh@acrow.co

UAE

Dubai

Office 1002, The Onyx Tower 2- The
greens - Dubai.
Tel. : [+971] 43439498
Fax : [+971] 43439598
Mob. : [+971] 528228811
E-mail: acrowgulf@acrow.co

Abu Dhabi

Bureau 816, tour Al Junaibi, Al Muroor Road
- Abu Dhabi.
Mob. : [+971] 588113383
E-mail: acrowad@acrow.co



EUROPE

ROMANIA

Strada Intrarea Panduri 4, Rudeni 077046,
Romania
Mob. : [+40] 721 297 342
E-mail: acrow.romania@acrow.co

KUWAIT

Al Aridiyah , Block 2 , Building 92,
Kuwait Khalid Ali Al Kharafi &
Bros.Co.W.LL
Tel.: [+965] 22083000 - Ext [240]
Fax: [+965] 22083001
E-mail: acrowkuwait@acrow.co

BAHRAIN

Office 1718, building 1260, Road 2421
Block 324 , Juffair, Manama , Kingdom of Bahrain
Mob. : [+973] 35 176 860
E-mail: acrowbahrain@acrow.co

QATAR

Salwa Road, Red Tag building,
1st floor, Doha
P.O. Box No.: 15104
Tel.: [+974] 44582357
Fax: [+974] 44582376
E-mail: acrowqatar@acrow.co

OMAN

Office 23, Bin Hayl 2 Building , Bawshar
St ,Muscat , Sultanate of Oman
Tel. : [+968] 24 112 791
Mob. : [+968] 92 543 734
E-mail: acrowmuscat@acrow.co

JORDAN

Jordan - Amman - Al Jandawil - Hosni
Subar Str - Building no 05 - Third Floor
Mob. : [+962] 797 603 936
E-mail: acrow.jordan@acrow.co



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