



ALPAN COLUMN FORMS

■ **Handset modular system**

ALPAN Column Forms

ALPAN panel forms are modular prefabricated panels, used for forming concrete columns and walls in construction.



HIGHLIGHTS

- Hand Set System
- Lightweight
- 65% reduction of construction time
- Elimination of forming lumber and plywood, as well as disposal of same at end of use
- Panel frame is pre-drilled for interconnecting of two or more panels
- Bolt type fastening between panels provides solid connection that sustains concrete placement and vibration
- In comparison to wedge type connection eliminates labour intensive ongoing tightening of wedges during construction



ALPAN Panel Forms for pour height up to 9'-0" high.



ALPAN Panel Forms for pour height over 9'-0".

Heavy Duty ALPAN Panel Forms are manufactured to be used as a bottom 8'-0" section for columns over 9'-0" high, to enable a full liquid pour. These panels have a H/D (Heavy Duty) designation.



In order to keep ALPAN Panel Forms in plumb position during concrete placement, Pipe Braces are used.

Pipe Braces are attached with ALPAN Pipe Brace Brackets to panel frames.

Pipe Brace (PB) lengths depend on heights of Column Forms.

Type	Size	Weight
PB 1	10'-0" to 17'-0"	84.0 lb
PB 2	15'-0" to 25'-0"	130.0 lb



ALPAN Column Forms

ALPAN COLUMN FORM DETAILS



Filler Angle
Part No. 10510



Panel Lifting Lug
Part No. 10501



Outside Corner
Part No. 10532



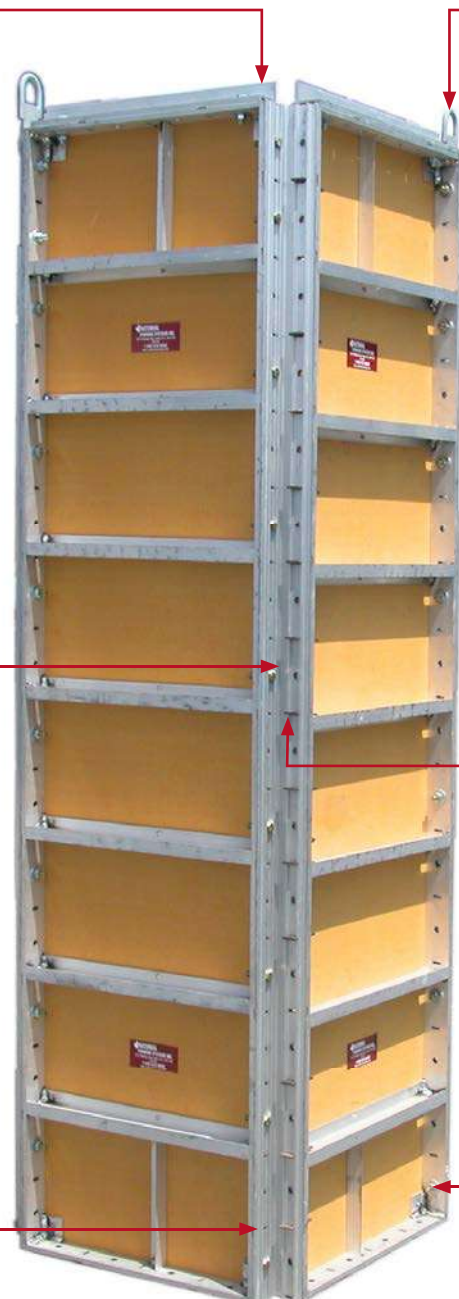
Key Bolt Connection
Part No. 10502



Hinge Connection
Part No. 10509



Bolt Connection
Part No. 10504



ADVANTAGES

Light Weight

Made from high strength aluminum alloy frame with H/D plywood surface. ALPAN Panels are 30-50% lighter in weight than conventional steel panels.

Easy Handling

Horizontal members are designed and extruded to simplify carrying, positioning and stripping of panels.

Versatility

Available Panel widths start from 12", and in increments of 2", go up to 36". Column forms up to 36" x 36" do not require tie through bracing.

Forming Height

ALPAN panels are manufactured in three different heights: 2', 4' and 8'. Filler Angles on top of panel forms, which support Cut to Size Plywood Strips, are used for precise forming heights.

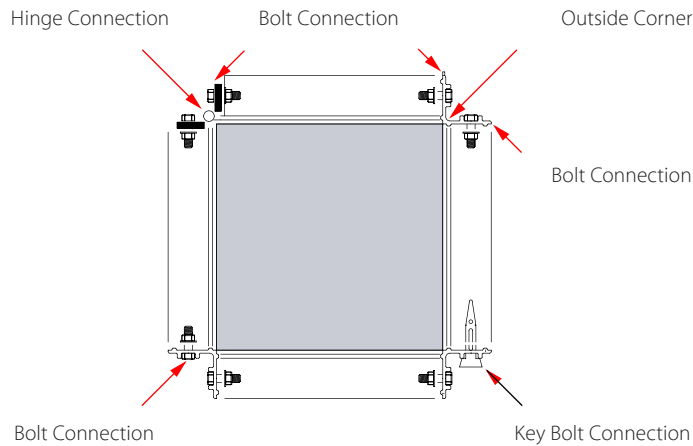


ALPAN Column Forms

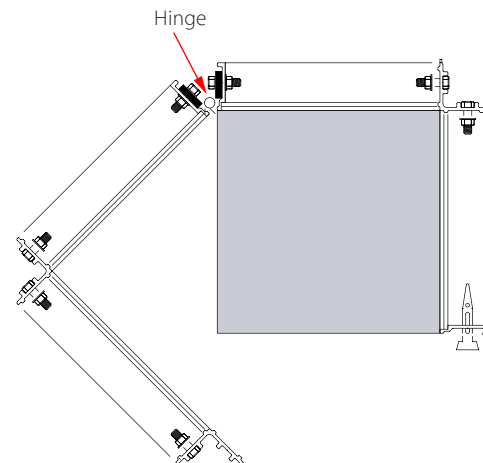
ALPAN Column Forms consist of four Panel Forms, connected at three corners with bolts over L-shaped aluminum extrusions, called Outside Corners.

An Outside Corner bolted to each panel creates a permanent connection during construction time.

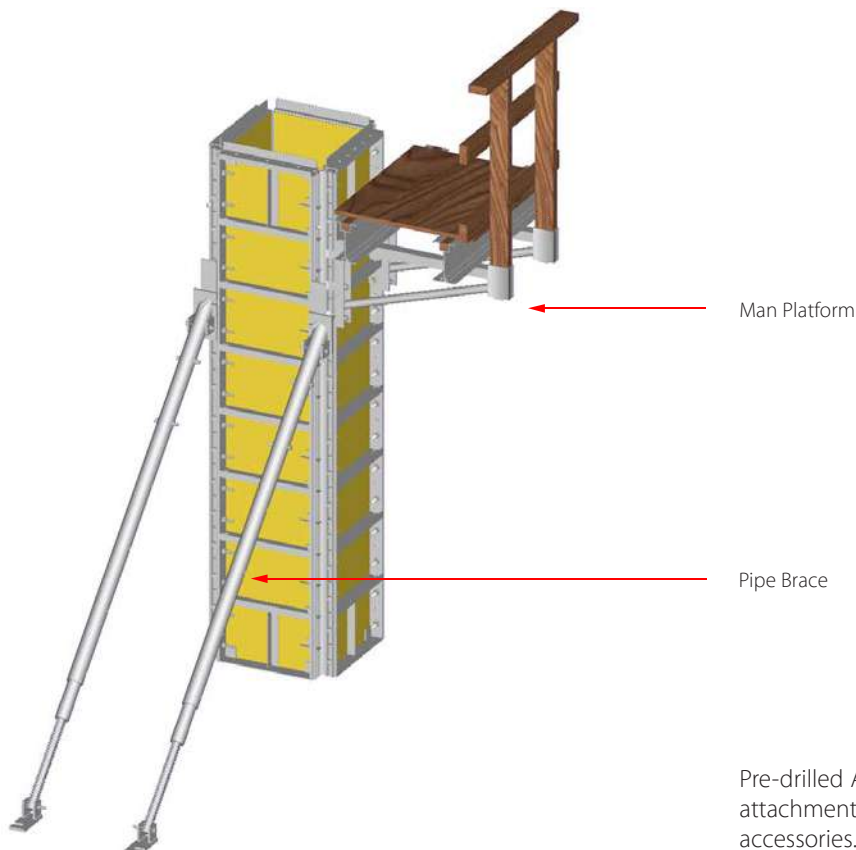
Only one of four corners has hinges as connectors between two panels. It enables opening of forms for easy stripping and cleaning of plywood surfaces after concrete hardening and closing of the same form for next concrete placement.



COLUMN IN CLOSED POSITION



COLUMN IN OPEN POSITION

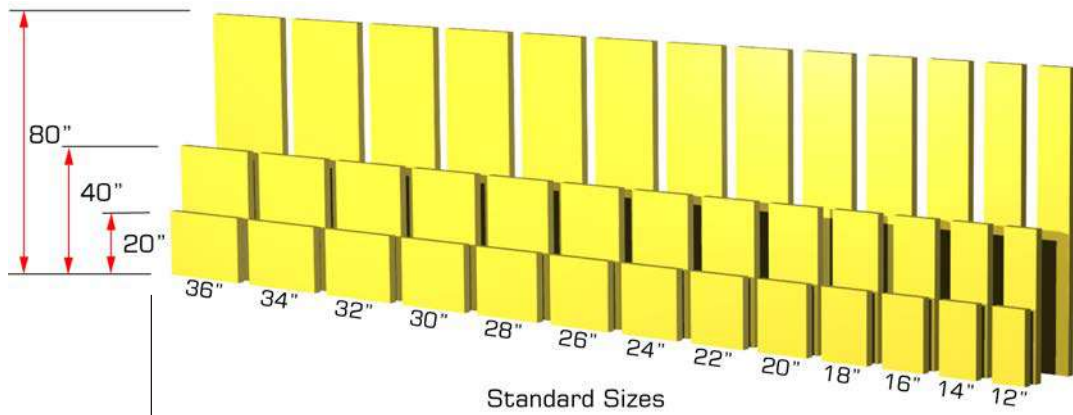


Man Platform

Pipe Brace

Pre-drilled ALPAN Panel frame sides are designed for easy attachment of man platforms, pipe braces, flat ties and similar accessories.

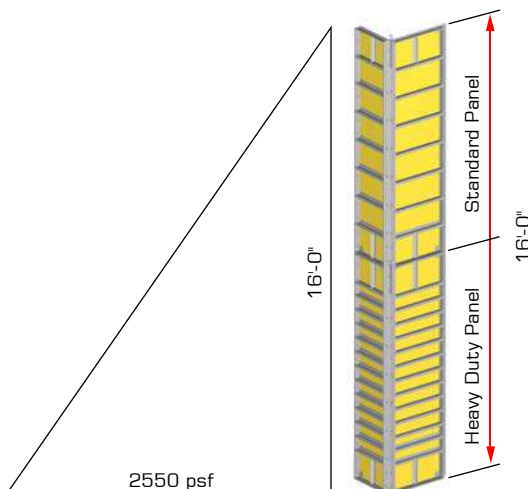
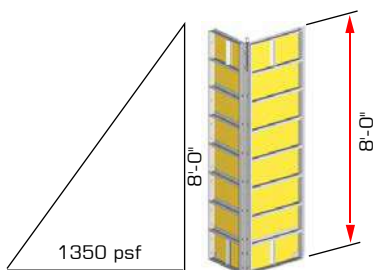
ALPAN PANEL SIZES



ALPAN PANEL WEIGHTS

Height	Width												
	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"
2'	9.40 lb	10.97 lb	11.20 lb	12.10 lb	13.20 lb	13.56 lb	14.80 lb	16.00 lb	17.27 lb	18.84 lb	20.10 lb	23.10 lb	25.74 lb
4'	16.96 lb	18.62 lb	20.28 lb	21.94 lb	23.60 lb	25.26 lb	26.92 lb	28.58 lb	30.23 lb	35.91 lb	42.14 lb	44.78 lb	49.36 lb
8'	31.20 lb	34.36 lb	37.52 lb	40.69 lb	43.83 lb	47.01 lb	50.17 lb	54.33 lb	57.51 lb	70.06 lb	82.56 lb	87.72 lb	92.88 lb
8' H/D	36.46 lb	40.58 lb	44.70 lb	48.83 lb	52.93 lb	57.07 lb	61.19 lb	66.31 lb	80.40 lb	94.65 lb	98.99 lb	105.21 lb	111.43 lb

DESIGN DATA



R Rate of Placement Ft. per Hr.	Maximum Lateral Pressure, PSF For Temperature Indicated					
	90 F	80 F	70 F	60 F	50 F	40 F
1	250	262	278	300	330	375
2	350	375	407	450	510	600
3	450	488	536	600	690	825
4	550	600	664	750	870	1050
5	650	712	793	900	1050	1275
6	750	825	921	1050	1230	1500
7	850	938	1050	1200	1410	1725
8	950	1050	1178	1350	1590	1950
9	1050	1163	1307	1500	1770	2175
10	1150	1275	1436	1650	1950	2400
11	1250	1388	1564	1800	2130	2625
12	1350	1500	1693	1950	2310	2850
13	1450	1613	1822	2100	2490	3000
14	1550	1725	1950	2250	2670	
16	1750	1950	2207	2550	3000	
18	1950	2175	2464	2850		
20	2150	2400	2721	3000		
22	2350	2625	2979			
24	2550	2850	3000			

Governed by maximum pressure of 3000 psf



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