



TECONAlu-Flex Formwork



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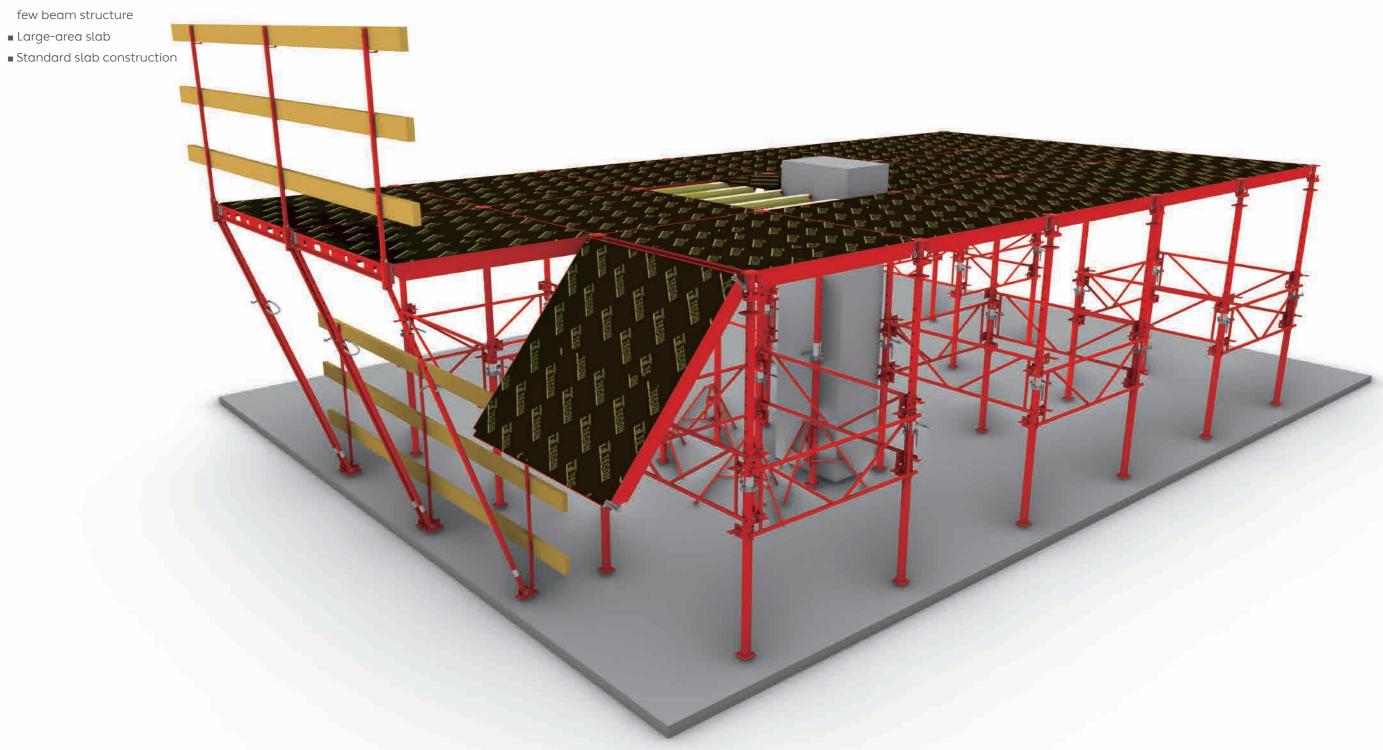
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High efficiency formwork with 3 steps installation and remove

Alu-flex is suitable for

■ Frame structure, such as slab-column structure,





FEATURES

Alu-Flex

TECON Aluflex formwork is a very high efficient and light weight slab formwork which saves labor greatly without crane assistance. Due to very few components design, easy assembly sequence, and light weight aluminum panel, two workers are enough for formwork erection, with much higher output.

Large-area shuttering

High output with 1.8mx1.8m panels and other smaller size panels such as 1.8mx1.2m etc., no main beam and secondary beam required

Easy and fast operations

- -Up to 180 square meters per day (8 hours) by two workers
- -Quick and simple assembly due to minimal main components design: light weight aluminum panel, prop and early-strip head, even no skilled worker required

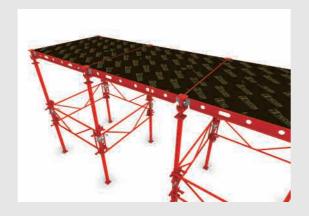
Early-strip system

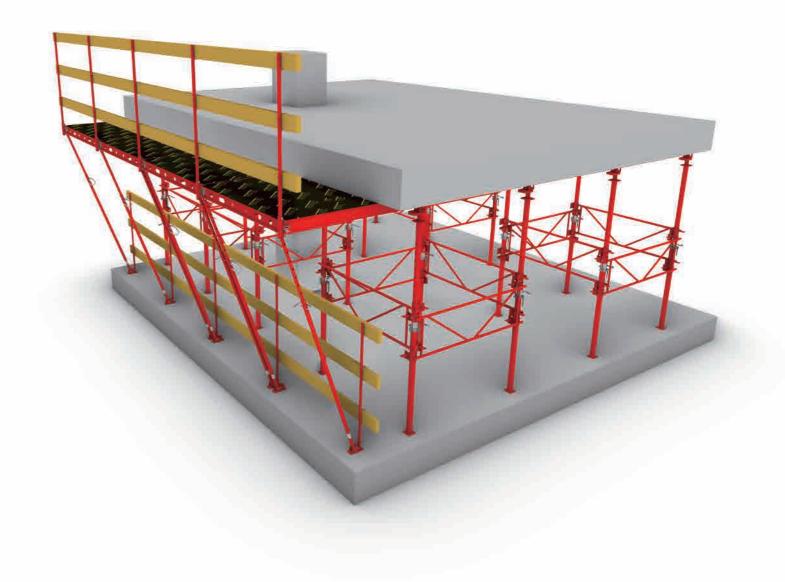
Early stripping heads (drop heads) help to maximize the usage of aluminum panels, with themselves left in lower floor together with floor props

Applicable with other formwork

Flexible solution to cover infill area around columns and beams with TECON Slab Flex 20 formwork or conventional timber formwork by site







Safety

Improved safety measurements via support and protection in the structure edge

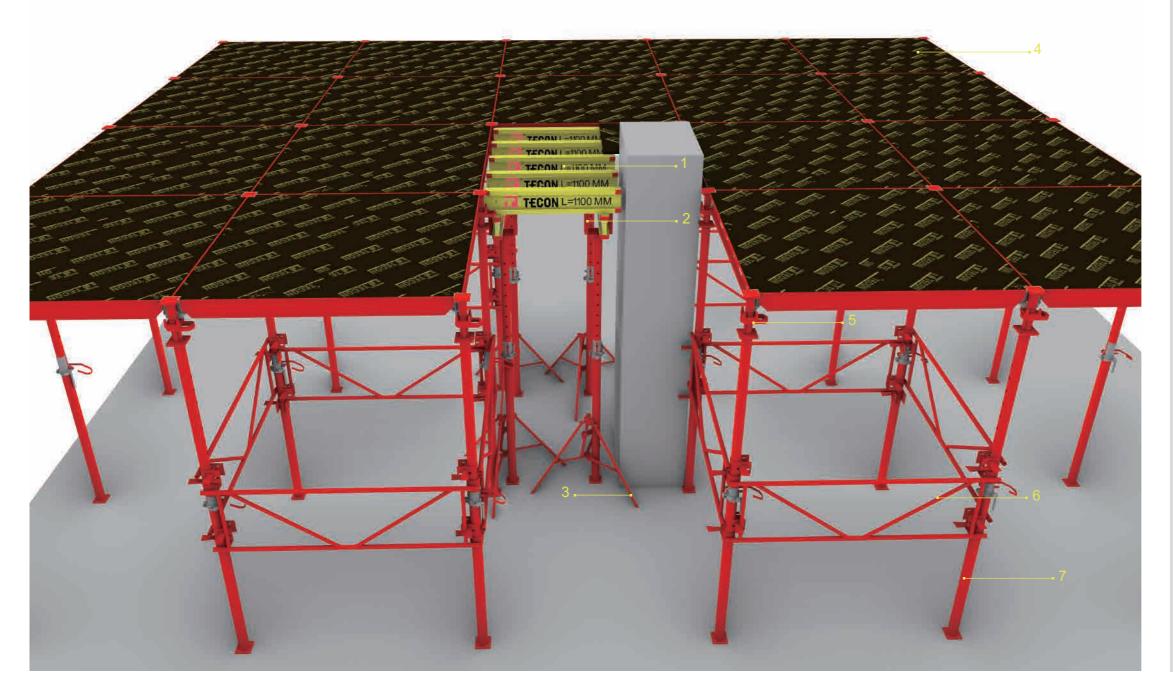
Complete birch plywood, and replaceable

Complete 10mm TECON-Form Birch (shuttering board) with phenolic glue ensures prolonged service life upto 40 times, and also produces high quality concrete finishing

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SYSTEM OVERVIEW

Worked with TECON flex 20 formwork to do slab-column structure



■ Slab flex 20 system

- 1. H20 timber beam
- 2. Fork head
- 3. Foldable tripod

■ Alu-flex system

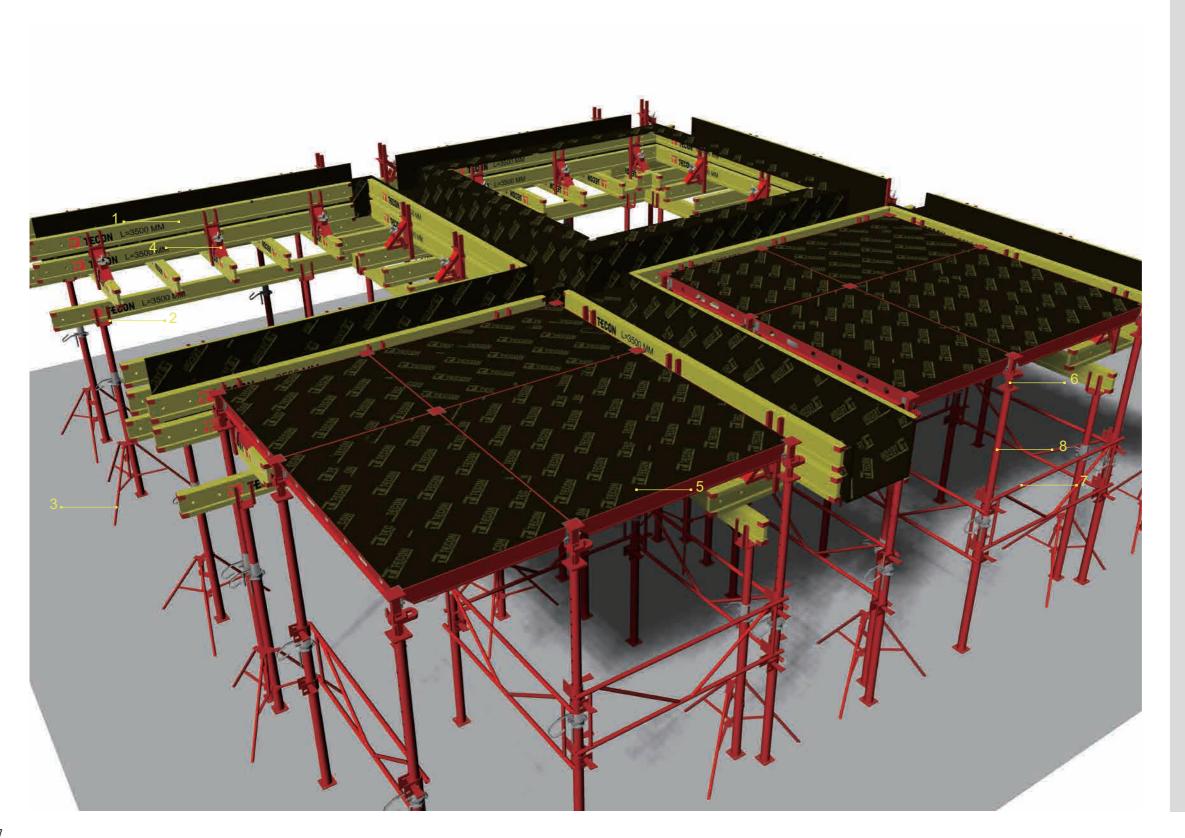
- 4. Alu-flex panel
- 5. Early stripe head
- 6. Truss bracing

■ Supporting system

7. TECON TEP-B prop
TECON TEP-D prop

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Worked with TECON flex 20 formwork to do slab-beam structure



■ Slab flex 20 system

- 1. H20 timber beam
- 2. Fork head
- 3. Foldable tripod
- 4. Beam 20 bracket
- Alu-flex system
- 5. Alu-flex panel
- 6. Early stripe head
- 7. Truss bracing

■ Supporting system

8. TECON TEP-B prop
TECON TEP-D prop

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APPLICATIONS

Overview of the Alu-flex Panel dimension

Under TECON technician's proper planning, our Aluflex formwork can produce slab thickness upto 700mm. The biggest panel size is 1.8*1.8m, weights 57.61kg and covers 3.24m2.

Average panels weight is around 20kg/m2. There are 12 kinds of panel sizes to meet,wo workers are enough for the erection, stripping and removal of Alu-Flex formwork withouttower crane. different structure.

Panel		Width				
Pa	nei	180	120	90		
	180	S:180x180cm W;57.61kg				
	120	S:180x120cm W;38.73kg	S:120x120cm W;28.77kg			
Height	90	S:180x90cm W;31.76kg	S:120x90cm W;23.62kg	S:90x90cm W;19.55kg		
	75	S:180x75cm W;28.27kg	S:120x75cm W;21.04kg	S:90x75cm W;17.42kg		

Do	nal		Width	
Pai	nei	180	120	90
Height	60	S:180x60cm	S:120x75cm	S:90x60cm
		W;24.79 kg	W;18.46kg	W;15.29kg

Panels are made of 6061-T6, with 10mm birch plywood, powered coated in red.

Technical Specification

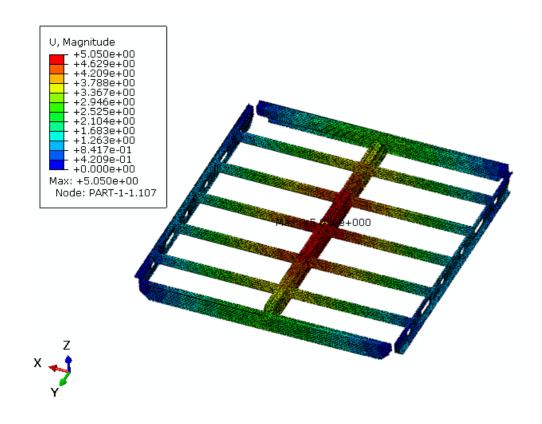
■ The follow table indicates deflection of different size panels under different slab thickness for your on-site guidance

Panel Size(m) /Deflection (mm)					
Slab thickness (mm)	Load capacity (kN/㎡)	1.8x1.8 (4 pcs prop)	1.8x1.8 (5 pcs props)	1.8x1.2	1.8x0.9
150	4.9	5.05	/	/	/
200	6.6	6.8	/	/	/
250	8.3	8.55	1.9	/	/
300	9.945	/	2.36	3.5	1.9
350	11.603	/	2.75	4	2.3
400	13.26	/	3.15	4.6	2.6
450	14.918	/	3.54	5.2	2.9
500	16.575	/	3.9	5.8	3.3
550	18.23	/	4.3	/	3.6
600	19.89	/	4.7	/	3.9
650	21.55	/	5.1	/	4.3
700	23.21	/	5.5	/	4.6

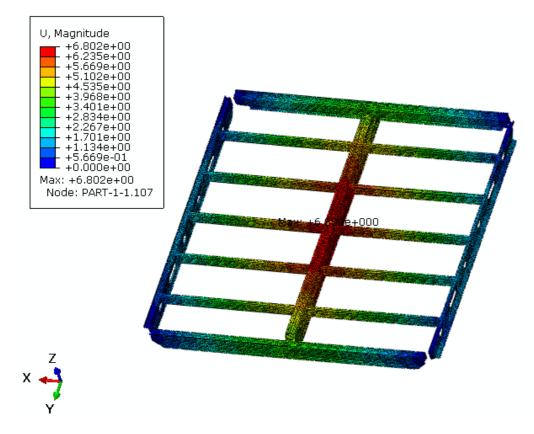
To sum up, the allowable deformation of the table is 1.8/0.4=4.5mm; 1.8/0.3=6mm;1.2/0.4=3mm; 1.2/0.3=4mm; 0.9/0.4=2.25mm; 0.9/0.3=3mm According to the customer's requirement with floor thickness and deformation, we can provide the design via different panels sizes

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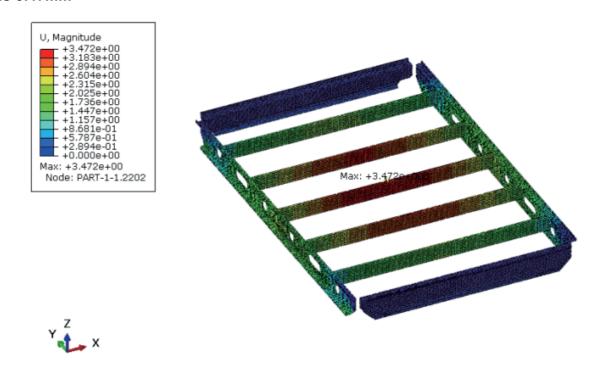
■ 1.8*1.8m panel without support in the middle, slab thickness is 150mm, the deformation is 5.05mm



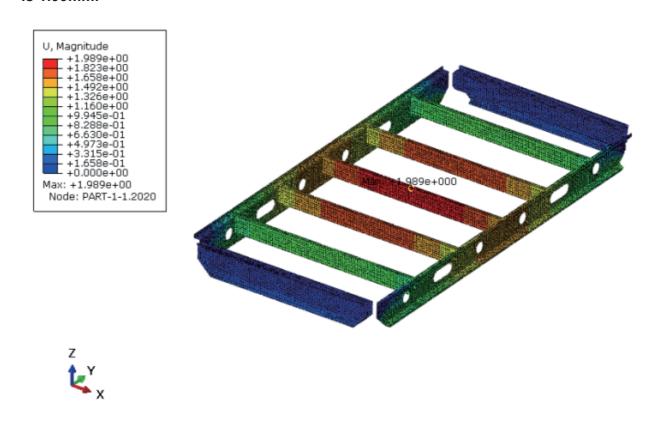
■ 1.8*1.8m panel with support in the middle, slab thickness is 250mm, the deformation is1.97mm



■ 1.8m*1.2m panel, slab thickness is 300mm, the deformation is 3.47mm



■ 1.8m*0.9m panel, slab thickness is 300mm, the deformation is 1.99mm.



^{*}This manual only Outlines the above four computational models.

If you need more models, please feel free to contact us.

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APPLICATIONS

Assembly process

■ General area assembly process

7. Repeat 4: Hang the two ends

of the panels on the

early-strip head



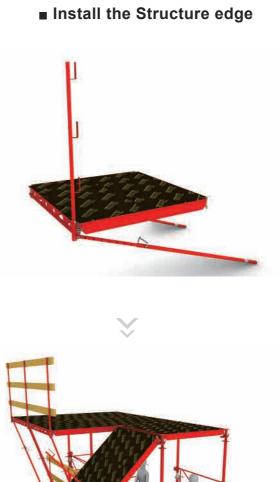
8. Insert, push, straighten

and lock in another

two props

9. Complete the installation

and then repeat steps 7,8 &9



1. Preassemble Install bearing shoe, railing post, cantilever support on the panels at the structure edge



2. Push up Hang one side of the panel on the support area and push the opposite to right position



3. Fixed

Fix cantilever support on the poured concrete surface and tightened

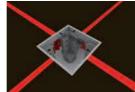
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Details of Early-strip Head

The four corners of the formwork panels will create a 50*50mm gap after assembly, which allows perfect match up of 100*100mm plate on early-strip head.

The early-strip head has a 90mm drop height via its slider.





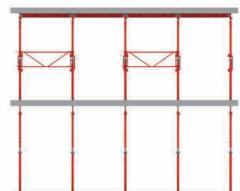


Work status Drop the early-strip head via hitting the slider by hammer.





 Strip status Leave the props and early-strip heads in their place and transport formwork panels into the upper floor.

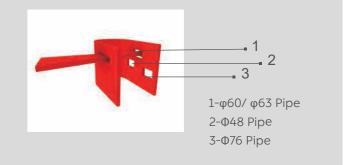




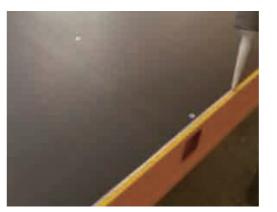


Truss bracing

TECON specially designed clamp on truss bracing allows a wide compatible range of different props on the diameter ranges from 48mm to 76mm. Whether they are your own stocked materials or newly purchased.



TECON-Form Birch (Birch Plywood)



TECON-Form Birch (Birch core plywood) is consists of 7 layer sheets of birch veneer glued via phenolic WBP glue together with resin, it can be reused up to 40 times in our ALUFLEX panels due to its excellent strength, water-proof glue & phenolic film, and fully sealed frame.

The surface of the birch plywood is nearly free of gaps and other defects which gives it impact resistance, smooth surface, great screw holding power and can therefore be used for building, construction.

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Alu-F	Flex Panel180/180 Flex Panel180/120 Flex Panel180/90 Flex Panel180/75	57.30 38.41 31.44	1800x1800mm 1800x1200mm 1800x900mm	
Alu-F	Flex Panel180/60	27.95 24.47	1800x750mm 1800x600mm	
Alu-F	Flex Panel120/120 Flex Panel120/90 Flex Panel120/75 Flex Panel120/60	28.46 23.30 20.72 18.14	1200x1200mm 1200x900mm 1200x750mm 1200x600mm	
Alu-F	Flex Panel 90/90 Flex Panel 90/75 Flex Panel 90/60	19.23 17.10 14.97	900x900mm 900x750mm 900x600mm	

	Description	Unit Weight (kg)	Size	
• Powder coated	Early-strip Head	7.92	1	
zipe coated	Bearing shoe	0.32	/	

	Description	(kg)	Size
	TECON floor prop TEP-B 25	9.47	1450-2500
	TECON floor prop TEP-B 30	12.03	1750-3000
	TECON floor prop TEP-B 35	14.74	1965-3500
powder coated	TECON floor prop TEP-B 40	17.8	2250-4000

• powder coated	Railing post	5.76	1
• powder coated	Cantiever support	17.14	1
		13.50	1800x500

Truss bracing

powder coated

11.18

10.00

9.44

8.44

1200x500

900x500

750x500

600x500

	Description	Unit Weight (kg)	Article Number
	Heavy duty prop TEP-D 25G	17.19	72600100
	Heavy duty prop TEP-D 30G	19.55	72600200
	Heavy duty prop TEP-D 35G	21.65	72600300
	Heavy duty prop TEP-D 40G	25.13	72600400
	Heavy duty prop TEP-D 45G	27.35	72600500
20kN work load	Heavy duty prop TEP-D 50G	28.90	72600600
	Heavy duty prop TEP-D 55G	41.29	72600700
Hot dip galvanization			

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