



GEOPANEL S T A R

USER MANUAL

Reusable modular formwork for columns





FIG. 1

GEOANEL STAR is used to form square or rectangular columns.
(ref. FIG. 1 for a possible column configuration)

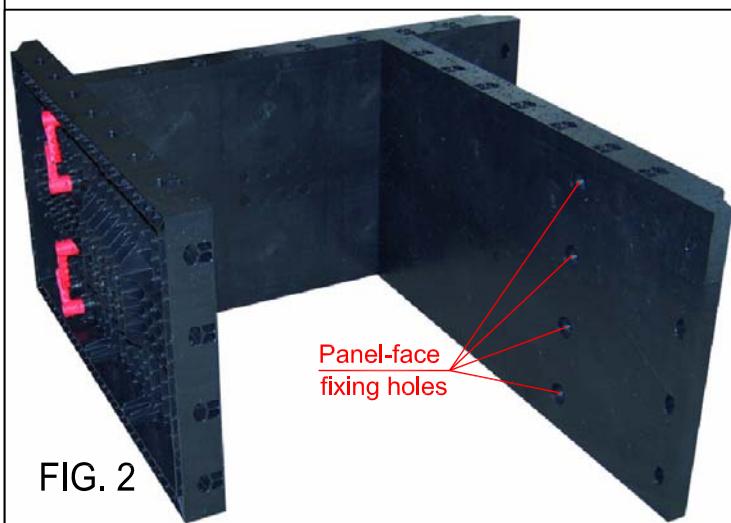


FIG. 2

The vertical fixing holes are placed in one single row on one edge of the panel, and in 5 parallel rows on the panel face. The latter allow the orthogonal connection of the panels (FIG. 2).

The panel-face rows are placed at 10 cm interval between each other. Each row of holes is used to form a specific column size; the holes not used are closed by specific caps.

N.B.: GEOANEL STAR is supplied with all holes plugged. The required plugs will be temporarily removed on the jobsite. For easier maintenance it is advised to always close the holes not in use.

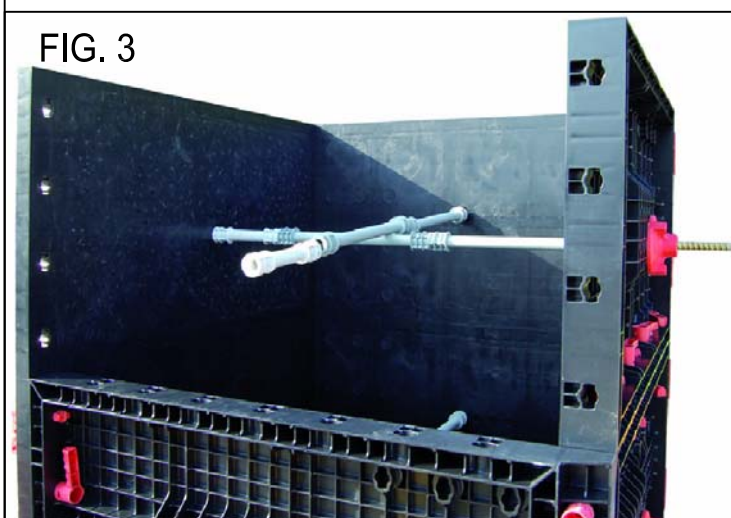
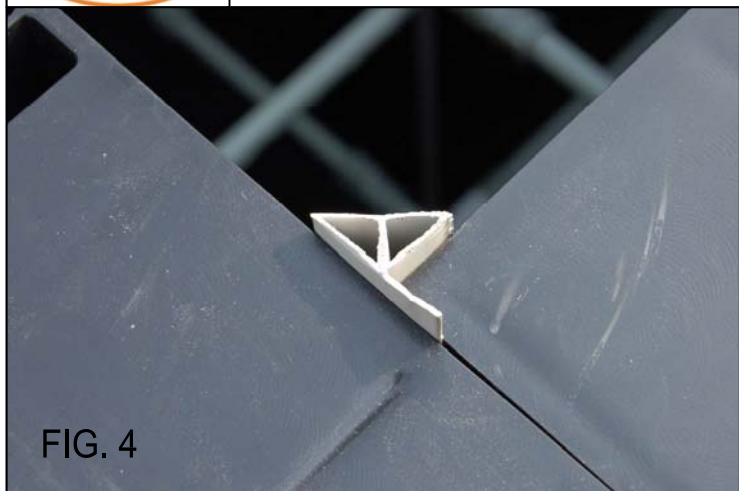


FIG. 3

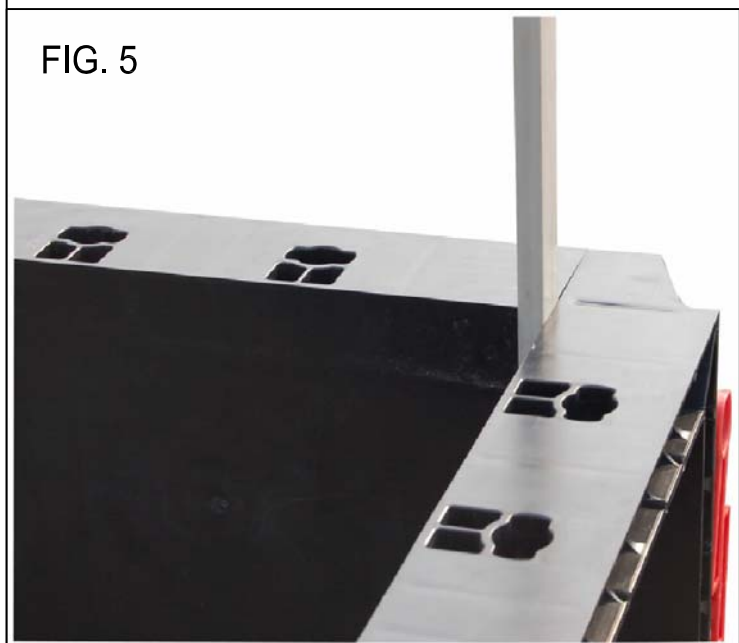
On the face of each GEOANEL STAR panel there are some parallel rows of tie-rod holes (these holes are smaller than the handle fixing holes and placed in the middle of the panel face).

In order to allow the crossing of two bars the holes come in vertical pairs (FIG. 3).

N.B.: GEOANEL STAR is supplied with all holes plugged. The required plugs will be temporarily removed on the jobsite. For easier maintenance it is advised to always close the holes not in use.



Chamfered corners are created using extruded pvc chamfer edge profiles with a flange. The flange is locked between two panels (FIG. 4).



When the chamfer edge profile is correctly placed, lock the panels using the red fixing handles (FIG. 5).

FIG. 6

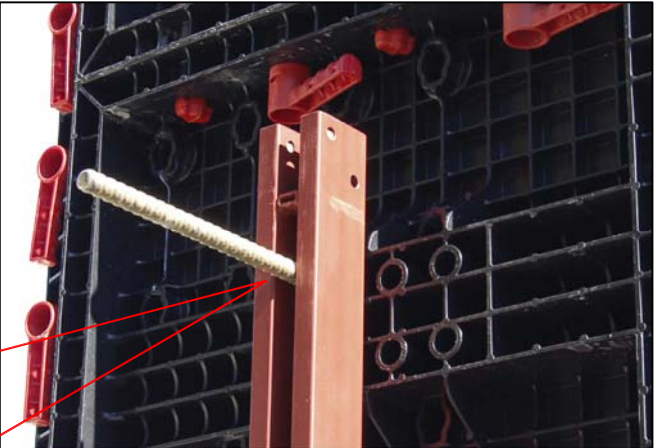
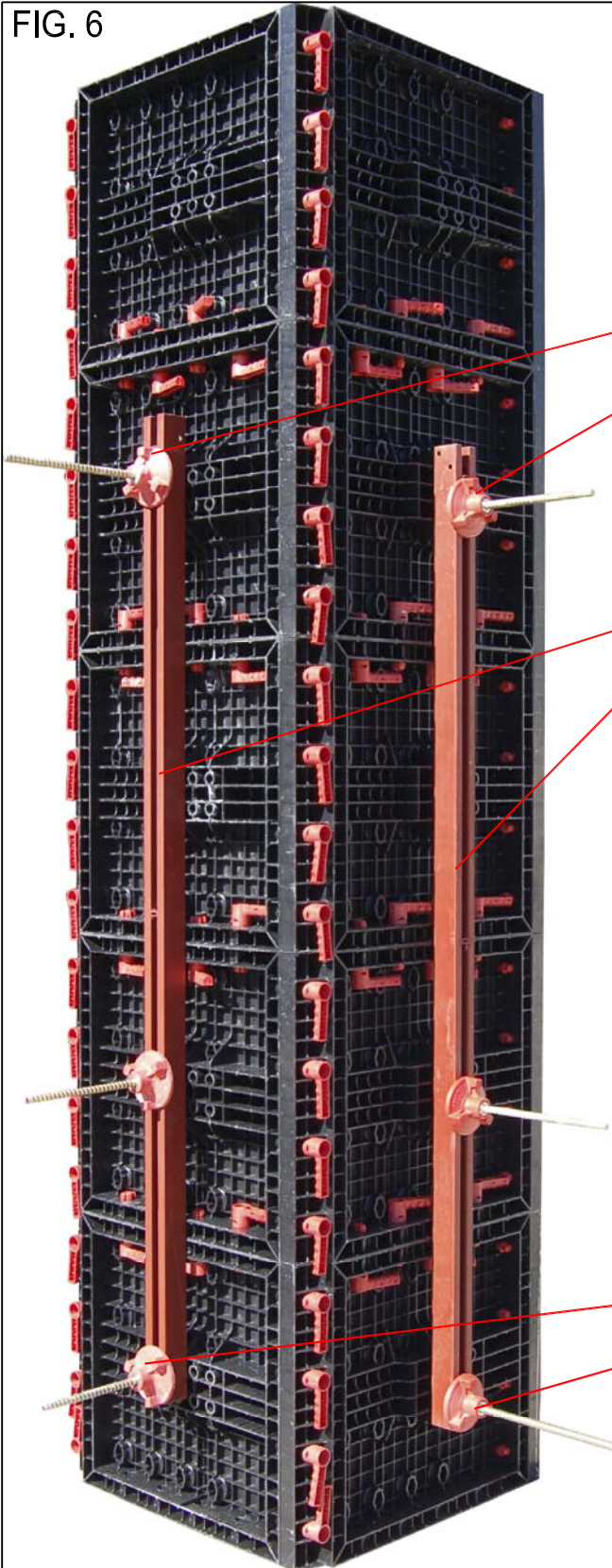


FIG. 7/A

ALIGNEMENT BARS
F-UN2000

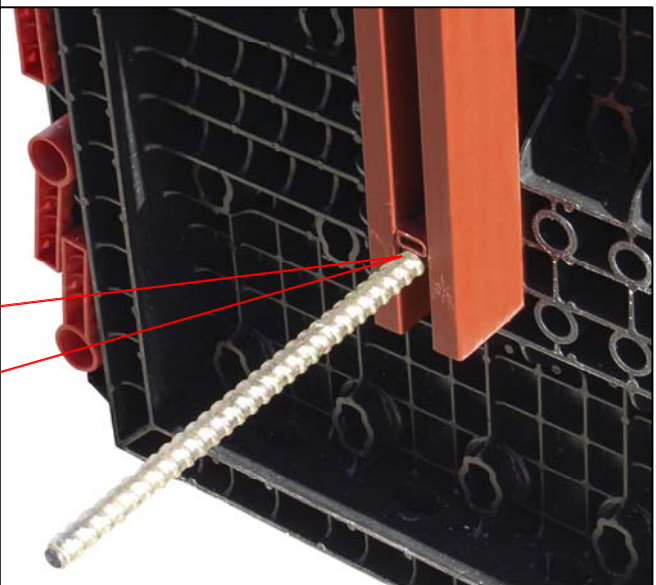


FIG. 7/B

To ensure the vertical alignment of the panels during the pour use one F-UN 2000 alignment bar on each column face (FIG. 6).

Place the bar end without holes (FIG. 7/B) on the lowest tie-rod.

The bar end with the holes (FIG. 7/A) should always be on the top side of the form.

The alignment bar must engage all the tie-rods on each panel face.

N.B.: Mount the washers after fitting the alignment bars.

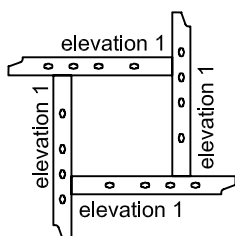


COLUMN COMBINATION BY GEOPANEL STAR PANEL SIZE

20	25	30	35	40	45	50	55	60	65	70	80	90	100	
A	A	A	A	A	B	B	B	B	B	C	C	C	C	20
	A	A	A	A	B	B	B	B	B	C	C	C	C	25
		A	A	A	B	B	B	B	B	C	C	C	C	30
			A	A	B	B	B	B	B	C	C	C	C	35
				A	B	B	B	B	B	C	C	C	C	40
					D	D	D	D	D	E	E	E	E	45
						D	D	D	D	E	E	E	E	50
							D	D	D	E	E	E	E	55
								D	D	E	E	E	E	60
									D	E	E	E	E	65
										F	F	F	F	70
											F	F	F	80
												F	F	90
													F	100

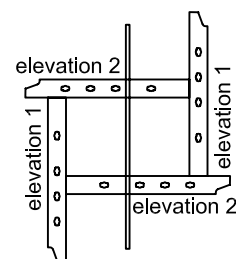
**COLUMN
TYPE**

A



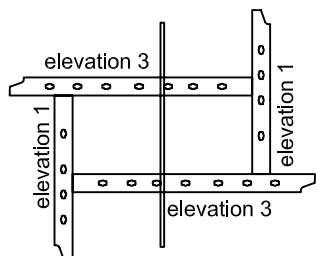
**COLUMN
TYPE**

B



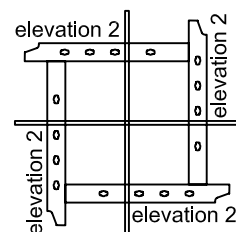
**COLUMN
TYPE**

C



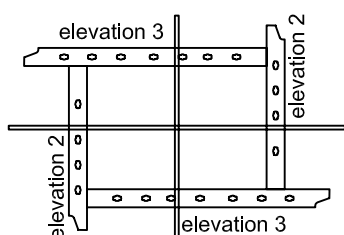
**COLUMN
TYPE**

D



**COLUMN
TYPE**

E



**COLUMN
TYPE**

F

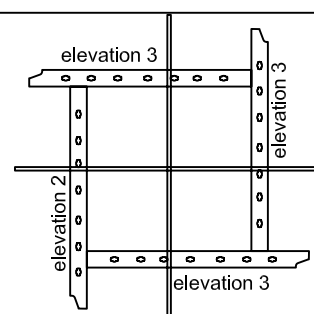
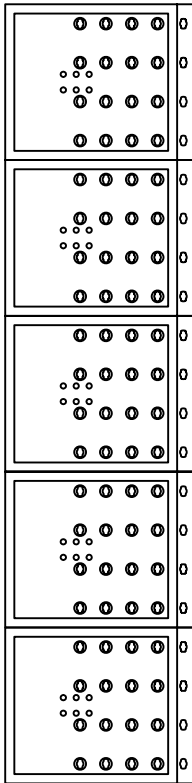


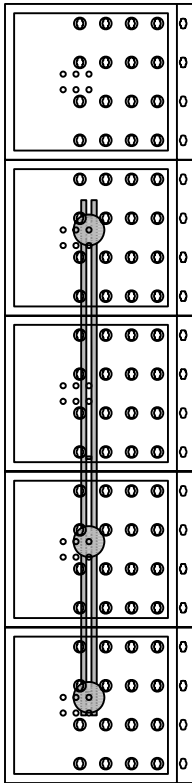


CHART: POSITION OF TIE-RODS AND ALIGNEMENT BARS FOR SIDE VIEWS 1 - 2 - 3,
COLUMNS OF 3.00 m HEIGHT

ELEVATION 1



ELEVATION 2



ELEVATION 3

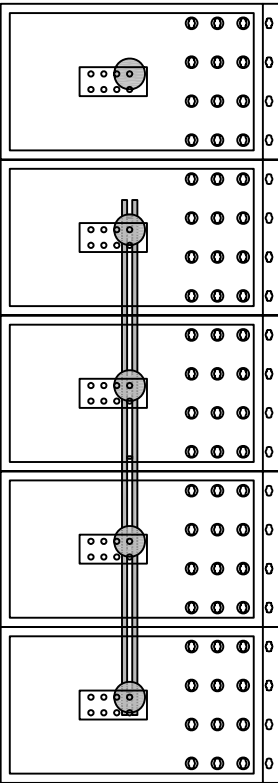


CHART: POSITION OF THE FIXING HANDLES FOR GEOPANEL STAR 70-80-90-100

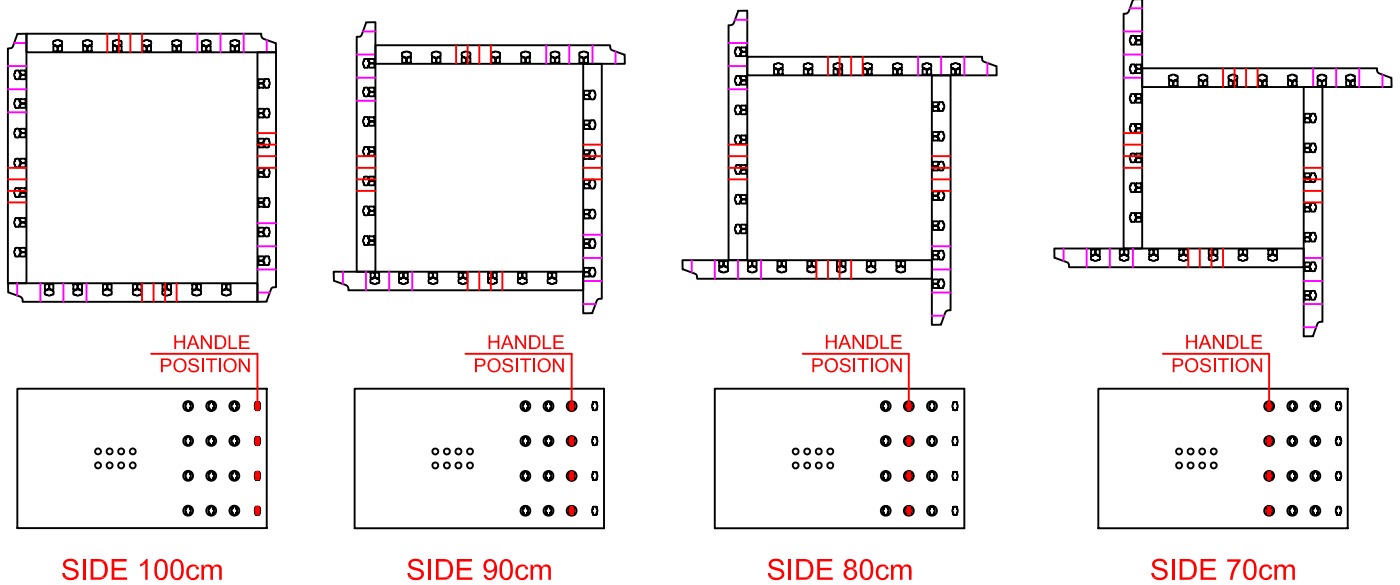


CHART: POSITION OF TIE-RODS FOR GEOPANEL STAR 70-80-90-100

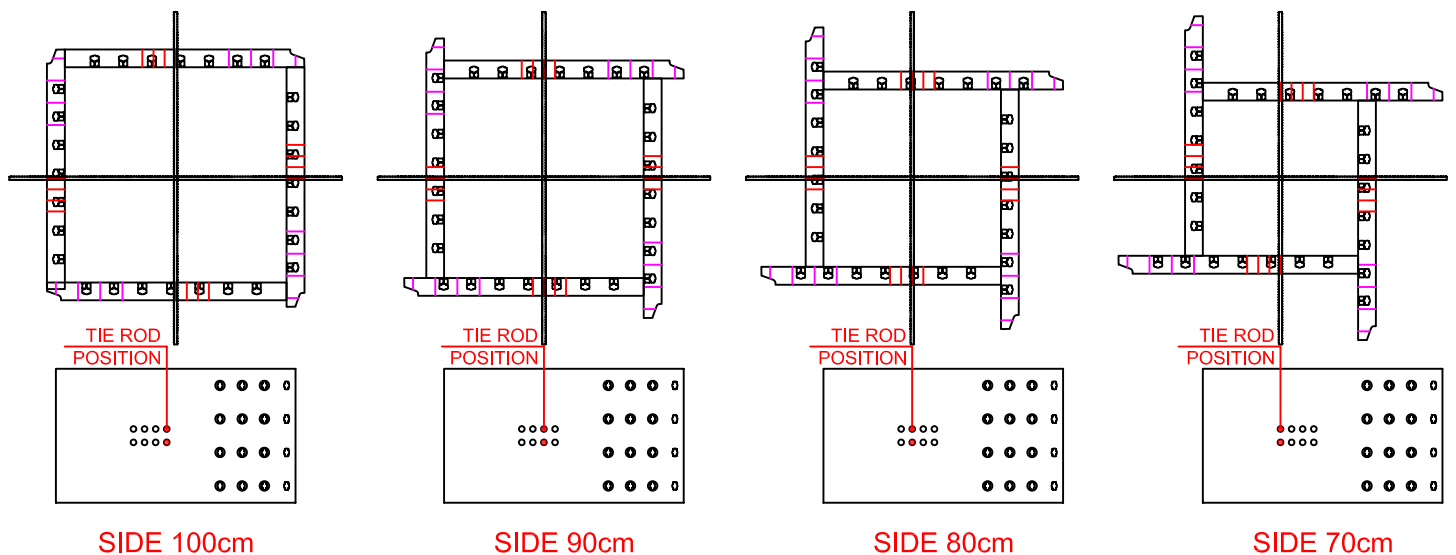


CHART: POSITION OF THE FIXING HANDLES FOR GEOPANEL STAR 25-35-45-55-65

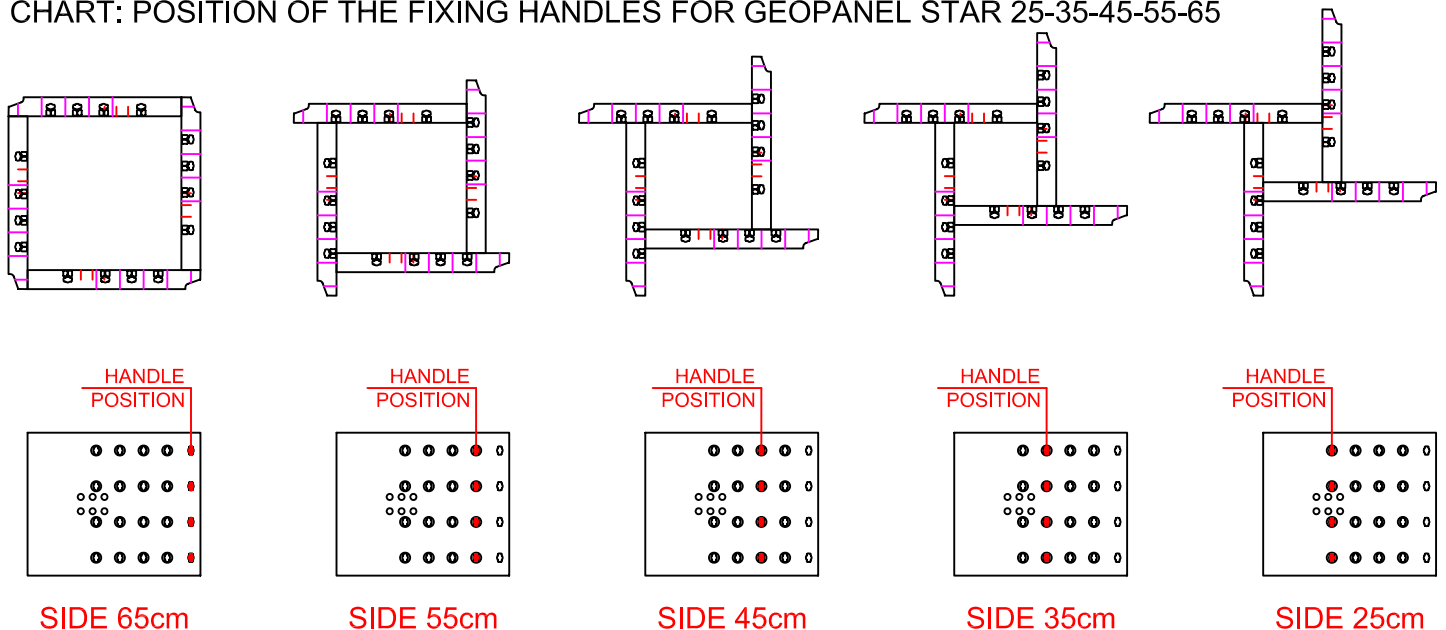


CHART: POSITION OF TIE-RODS FOR GEOPANEL STAR 25-35-45-55-65

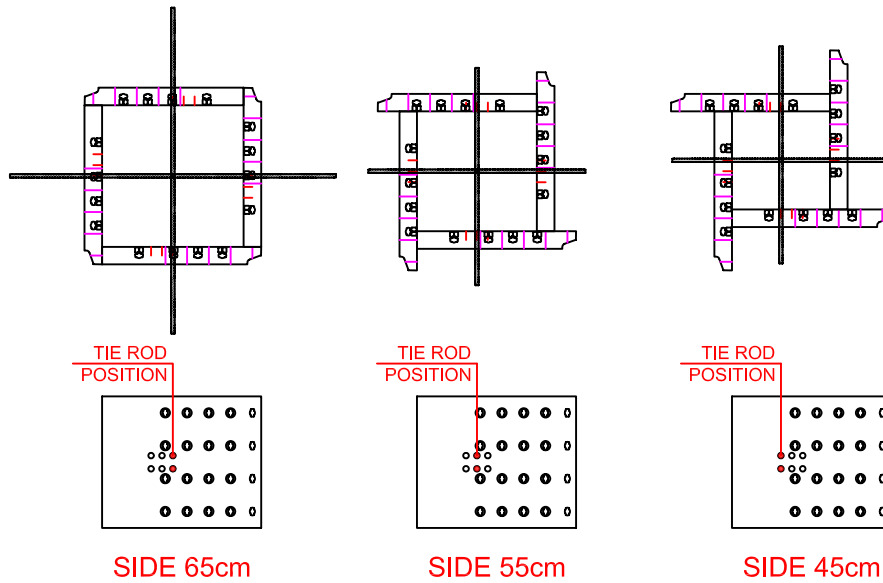


CHART: POSITION OF THE FIXING HANDLES FOR GEOPANEL STAR 20-30-40-50-60

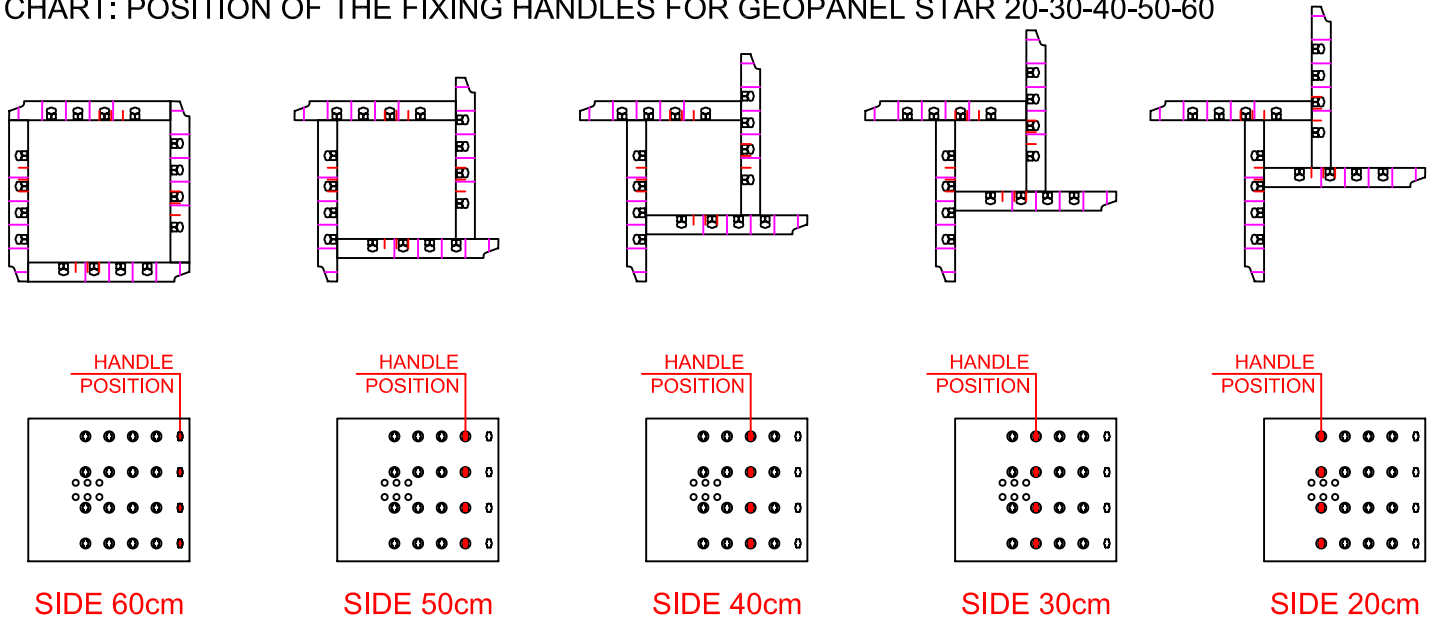
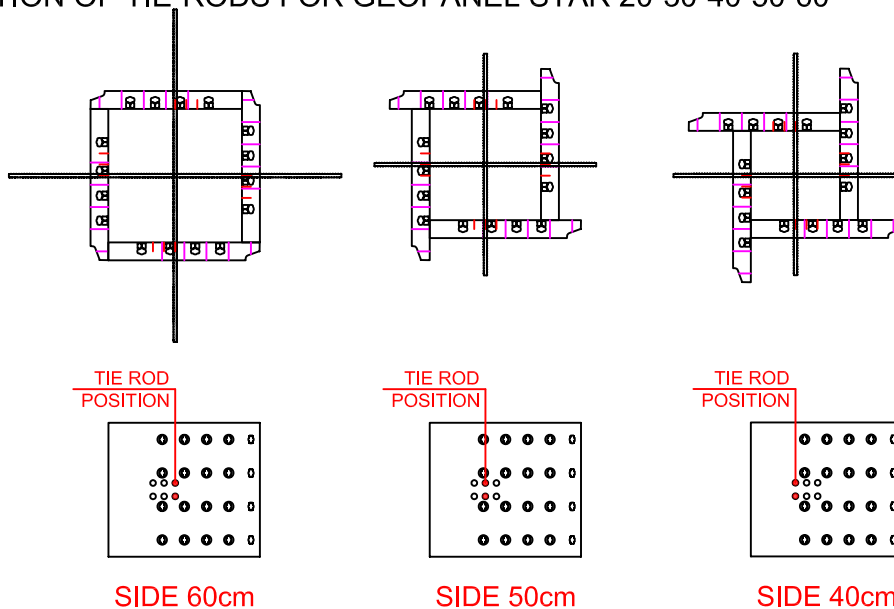
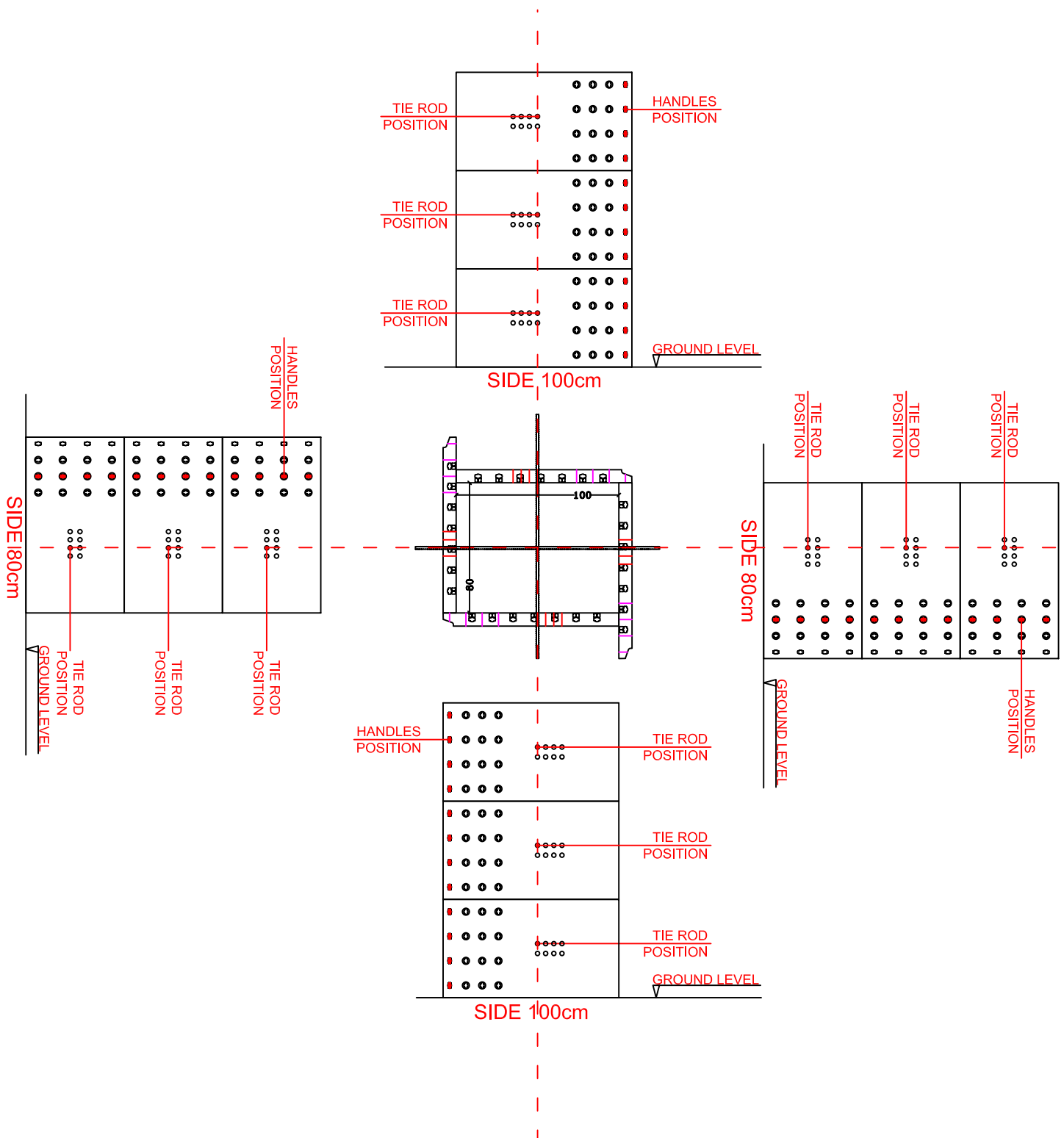


CHART: POSITION OF TIE-RODS FOR GEOPANEL STAR 20-30-40-50-60



EXAMPLE: POSITION OF FIXING HANDLES AND TIE-RODS FOR COLUMN 80x100cm



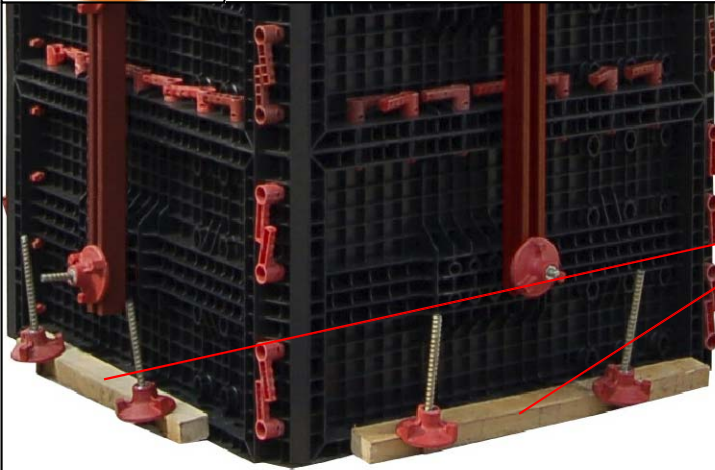


FIG. 8

To align the base of the form during concrete pour and vibration use timber and anchors (FIG. 8).

**TIMBER AND ANCHORS FOR
FORM BASE ALIGNMENT**



FIG. 9

Plumb the forms and prop with standard support props fixed to the ground (FIG. 9).