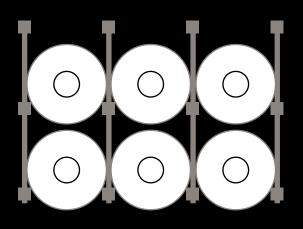


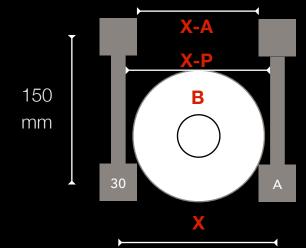
ACRYLIC WINE RACKS CORK FORWARD

Installation Instruction

Please read the entire installation process carefully, and you can make necessary changes according to your actual situation.

BASIC INFORMATION





X-A+4<B<X-P-2 or B+P+2<X<B+A-4

P: Diameter of Pole (rod)

A: Acrylic square strip side length

B: Diameter of Bottle

X: Distance between the centers of two poles

Given the conditions:

P=16mm (Diameter of Pole),

A=30mm (Acrylic square strip side length)

THEN:

X-26<B<X-18 or B+18<X<B+26

For simplification, X=B+22±4

STEP 1: SPACING - DETERMINE THE APPROPRIATE SPACING FOR YOUR BOTTLE STORAGE

A. CALCULATE THE HORIZONTAL SPACING

- Determine the size (diameter) of the bottles you will store.
- Use the formula X-A+4<B<X-P-2, where:

P represents the diameter of the pole (P=16mm).

A represents the side length of the acrylic square strip (A=30mm).

B represents the diameter of the bottle.

X represents the distance between the center of two poles.

Leave a 1mm gap between the bottle and the pole.

Ensure there is 2mm of support at each side of the bottle.

Conclusion: X-26<B<X-18 (or to be simple, set it to X=B+22)

IF X=90, it fits bottles which diameter between 64 to 72mm;

IF X=100, it fits bottles which diameter between 74 to 82mm;

IF X=102, it fits bottles which diameter between 76 to 84mm;

IF X=105, it fits bottles which diameter between 79 to 87mm;

B. THE VERTICAL SPACING (OPTIONAL)

Y=120MM or Y=150mm

Horizontal Spacing (mm)	Minimum Bottle Diameter	Maximum Bottle Diameter
88	62	70
89	63	71
90	64	72
91	65	73
92	66	74
93	67	75
94	68	76
95	69	77
96	70	78
97	71	79
98	72	80
99	73	81
100	74	82
101	75	83
102	76	84
103	77	85
104	78	86
105	79	87
106	80	88
107	81	89
108	82	90
109	83	91
110	84	92

BOTTLE SIZE AND HORIZONTAL SPACING

	BOTTLE SIZE (MIN)	SIZE (MAX)															ВС	TTL	E SIZ	E (N	IM)													
HORIZONTA L SPACING (mm)	X-32 (MIN)	X-18 (MAX)	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91 9:
88	62	70			62	63	64	65	66	67	68	69	70																					
89	63	71				63	64	65	66	67	68	69	70	71																				
90	64	72					64	65	66	67	68	69	70	71	72																			
91	65	73						65	66	67	68	69	70	71	72	73																		
92	66	74							66	67	68	69	70	71	72	73	74																	
93	67	75								67	68	69	70	71	72	73	74	75																
94	68	76									68	69	70	71	72	73	74	75	76															
95	69	77										69	70	71	72	73	74	75	76	77														
96	70	78											70	71	72	73	74	75	76	77	78													
97	71	79												71	72	73	74	75	76	77	78	79												
98	72	80													72	73	74	75	76	77	78	79	80											
99	73	81														73	74	75	76	77	78	79	80	81										
100	74	82	Ī														74	75	76	77	78	79	80	81	82									
101	75	83																75	76	77	78	79	80	81	82	83								
102	76	84																	76	77	78	79	80	81	82	83	84							
103	77	85																		77	78	79	80	81	82	83	84	85						
104	78	86																			78	79	80	81	82	83	84	85	86					
105	79	87																				79	80	81	82	83	84	85	86	87				
106	80	88	Ī																				80	81	82		84	85	86	87	88			
107	81	89																						81	82	83	84	85	86	87	88	89		
108	82	90																							82	83	84	85	86	87	88	89	90	
109	83	91																								83	84	85	86	87	88	89	90	91
110	84	92																									84	85	86	87	88	89	90	91 9:

																PΩ		CIZI	(IN	2LI\												
HORIZONTA	POTTI E	BOTTLE							1							БО	11.1-	3121		СΠ)												
L SPACING	SIZE		2 36 2 4	2 44	2 48	2 52	2 56	26	2 64	2 68	2 72	2 76	28	2 83	2 87	2 01	2 05	2 00	3 03	3 07	2 11	2 15	2 10	3 23	2 27	2 21	3 35	3 30	3 13	3 16	3 5 3 1	54 3.58 3.6
(INCH)	(MIN)	(MAX)	2.30 2.4	2.44	2.40	2.52	2.50	2.0	2.04	2.00	2.12	2.70	2.0	2.03	2.01	2.31	2.33	2.55	3.03	3.01	3.11	3.13	3.13	3.23	3.21	3.31	3.33	3.33	3.43	3.40	J.J J.,	3.30 3.0
3.46	2.44	2.76		2 44	2.48	2 52	2 56	26	2 64	2 68	2 72	2 76																				
3.5	2.48	2.8			2.48			_																								
3.54	2.52	2.83									2.72			2 83																		
3.58	2.56	2.87									2.72				2 87																	
3.62	2.6	2.91					2.00				2.72					2 91																
3.66	2.64	2.95						2.0			2.72						2 95															
3.7	2.68	2.99							2.01	_	2.72	_																				
3.74	2.72	3.03												2.83					3 03													
3.78	2.76	3.07																	3.03	3.07												
3.82	2.8	3.11																-	3.03		3.11											
3.86	2.83	3.15																	3.03			3.15										
3.9	2.87	3.19																	3.03				3.19									
3.94	2.91	3.23																	3.03					3.23								
3.98	2.95	3.27																	3.03						3.27							
4.02	2.99	3.31																	3.03							3.31						
4.06	3.03	3.35																	3.03		$\overline{}$						3.35					
4.09	3.07	3.39																						3.23				3.39				
4.13	3.11	3.43																						3.23					3.43			
4.17	3.15	3.46																			_			3.23					_	3.46		
4.21	3.19	3.5																					3.19	3.23	3.27	3.31	3.35	3.39	3.43	3.46	3.5	
4.25	3.23	3.54																						=			-		_		3.5 3.	54
4.29	3.27	3.58																														54 3.58
4.33	3.31	3.62																														54 3.58 3.6

STEP 2: CALCULATE THE QUANTITY OF POLES AND ACRYLIC STRIPS

To determine the number of poles and acrylic strips needed for your wine rack, follow these calculations:

A. MEASURE THE SPACE DIMENSIONS:

Determine the width of the space as W.

Determine the height of the space as H.

B. CALCULATE THE NUMBER OF ROWS AND COLUMNS OF HOLES:

Adjust the space dimensions by considering a minimum of 15mm on the left and right sides for the edge
of the racks:

 $W_adjusted = W - 30mm.$

• Adjust the space dimensions by considering a minimum 20mm at the top and bottom for the edge of wine racks and the post covers: H_adjusted = H - 40mm.

Number of rows of holes:

- If the vertical spacing Y=150mm, INT(H_adjusted / 150)
- If the vertical spacing Y=120mm, INT(H_adjusted / 120)

Number of columns of holes: INT(W_adjusted / X), where X is the distance between the centers of two poles.

C. DETERMINE THE QUANTITY OF POLES:

Quantity of poles: $(INT(W_adjusted / X) + 1) * 2$.

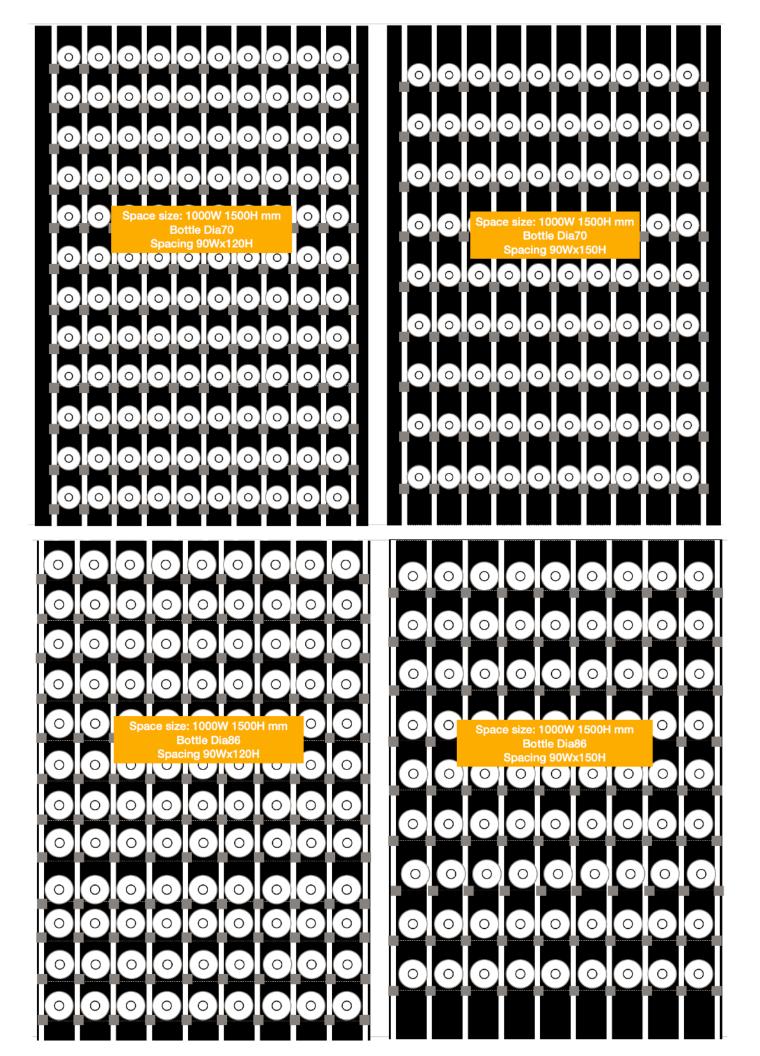
D. DETERMINE THE QUANTITY OF ACRYLIC STRIPS:

- If the vertical spacing Y=150mm, (INT(W_adjusted / X) + 1) * INT(H_adjusted / 150).
- If the vertical spacing Y=120mm, (INT(W_adjusted / X) + 1) * INT(H_adjusted / 120).

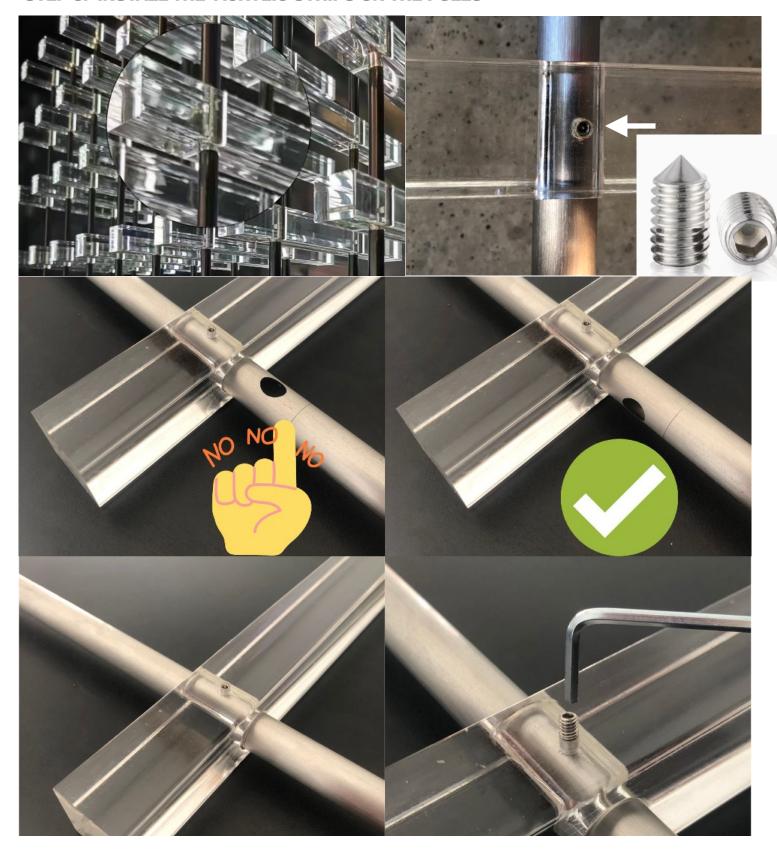
By following these calculations, you can determine the appropriate quantity of poles and acrylic strips needed for your wine rack.

CUSTOM BUILT WINE RACKS | ACRYLIC

	YOUR	SPACE	BOTTL	E SIZE AND SPA	ACING	CUSTOM-BUILT WINE RACKS									
	WIDTH (MM)	HEIGHT (MM)	BOTTLE DIAMETER	HORIZONTAL SPACING	VERTICAL SPACING	HOLES (Width)	HOLES (Height)	WIDTH (MM)	HEIGHT (MM)	DEPTH (MM)					
Unit 1	1000	1500	70	92	120	10	12	950	1500	320					
Unit 2	1000	1500	80	102	150	9	9	948	1500	320					
Unit 3	1000	1500	86	108	120	8	12	894	1500	320					
Unit 4	1000	1500	86	108	150	8	9	894	1500	320					



STEP 3: INSTALL THE ACRYLIC STRIPS ON THE POLES



- 1. Position the acrylic strip along the stainless steel post so that it aligns with the hole in the post.
- 2. Ensure that the holes in the posts are facing the same direction, from front to back, as the acrylic strips.
- 3. Secure the acrylic strip to the stainless steel post by inserting a 304 pointed head cap screw through the pre-drilled holes in the acrylic strip.
- 4. Using an appropriate hex wrench, tighten the screws until the acrylic strip is securely attached to the post.

STEP 4: INSTALL THE POLES



Baseboard with Pre-drilled holes

A. Install the Poles to the Floor

- 1. Firmly connect the flange and the pole through spot welding.
- 2. Thread the appropriate screws through the holes of the mount and into the floor.
- 3. Tighten the screws to securely fix the mount and increase the stability of the entire structure.

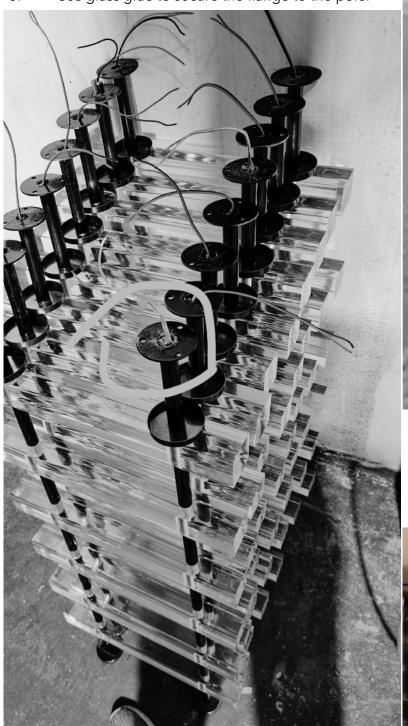
Alternative Solution:

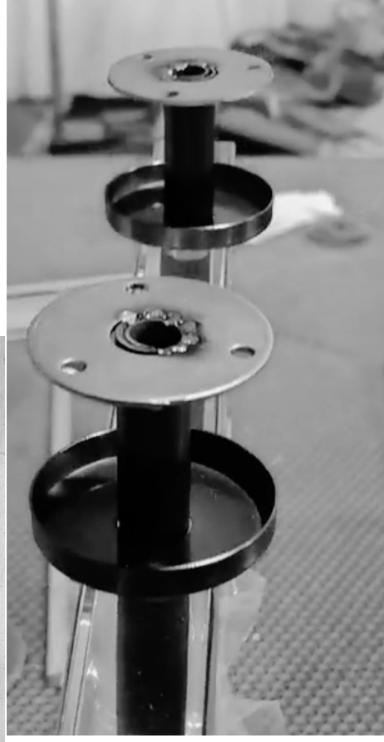
If available, you can use pre-drilled holes on the floor or baseboard.

Insert the poles into the pre-drilled holes.

B. Install the Poles to the Ceiling

- 1. Firmly connect the flange and the pole through spot welding.
- 2. Insert the LED strip into the pole, preparing for the subsequent installation of the LED lighting system.
- 3. Align the mount with the desired location on the ceiling and locate the corresponding holes. Thread the appropriate screws through the holes of the mount and into the ceiling.
- 4. Tighten the screws to firmly fix the mount and increase the stability of the entire structure.
- 5. Use glass glue to secure the flange to the pole.





Alternative Solution:

If available, you can use pre-drilled holes on the ceiling or top frame.

Insert the poles into the pre-drilled holes.



STEP 5: INSTALL THE LOCATOR BAR



STEP 6: INSTALL THE LED LIGHT

