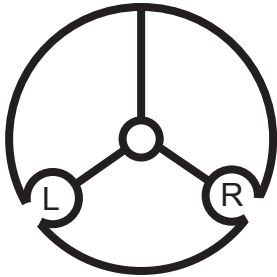


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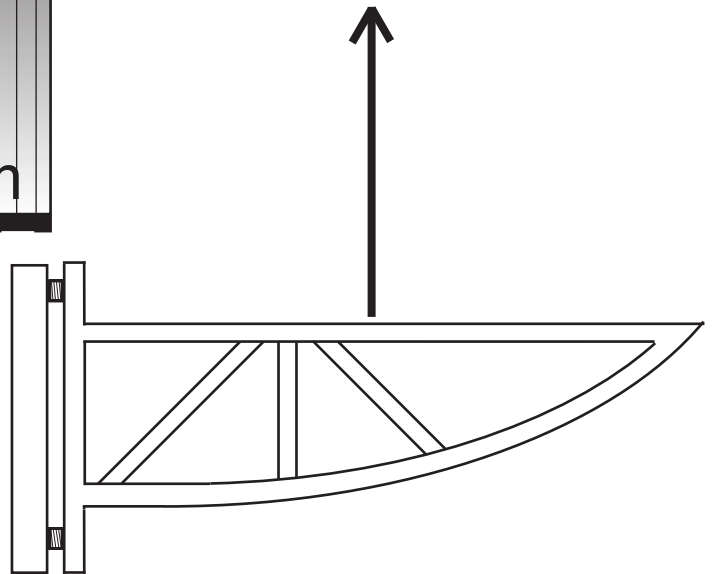
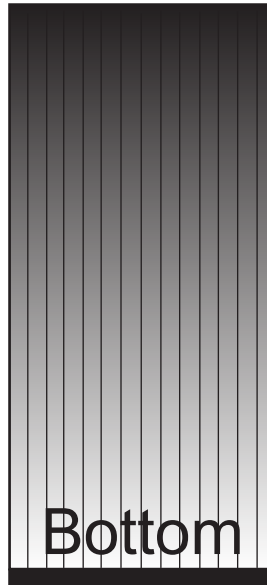
Mounting instructions for the Hybrid Rack with Isolation Shelves

1.

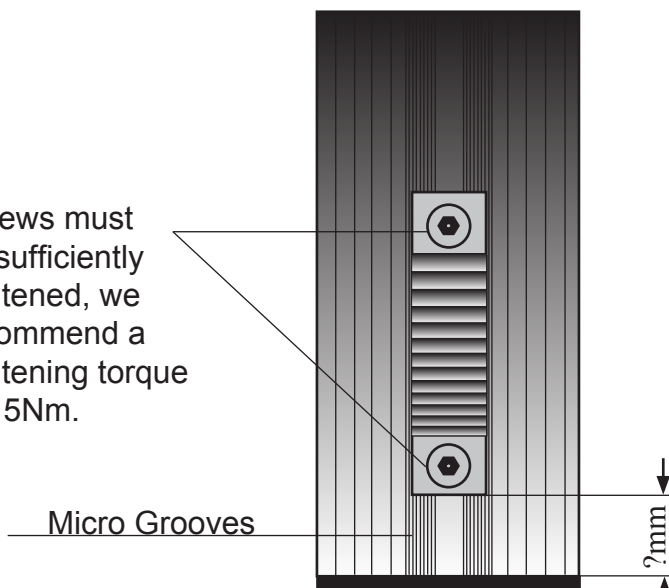


If a single section rack is to be mounted, half of all corner-pillars shall have the shelf-bracket(s) mounted to the left (L) slot and the other half to the right (R) slot.

If a multiple section rack is to be mounted a certain amount of corner-pillars shall have shelf-brackets mounted to both the left and right slot



Screws must be sufficiently tightened, we recommend a tightening torque of 15Nm.



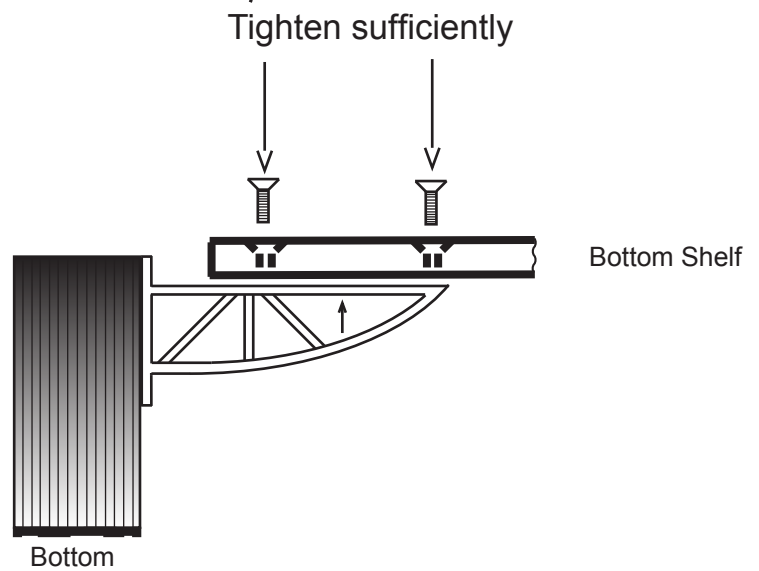
ATTENTION!

Carefully measure and place the shelf bracket(s) at its intended height (?mm) from the bottom and at first apply a very light tension to the two screws, then carefully align the shelf bracket in a perfect straight line with the corner-pillars, using the micro grooves as guide lines.

When the shelf bracket is properly adjusted then **tighten the two screws fully (15Nm).**

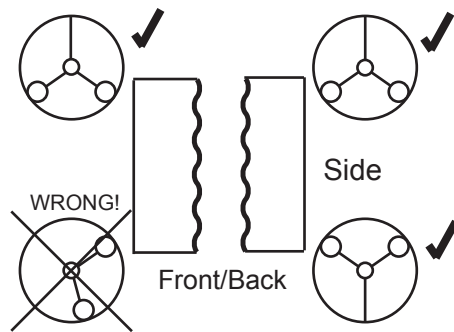
2.

Separate the bottom shelf from the top shelf and attach the bottom shelf to the corner pillars with the shelf-bracket already mounted.

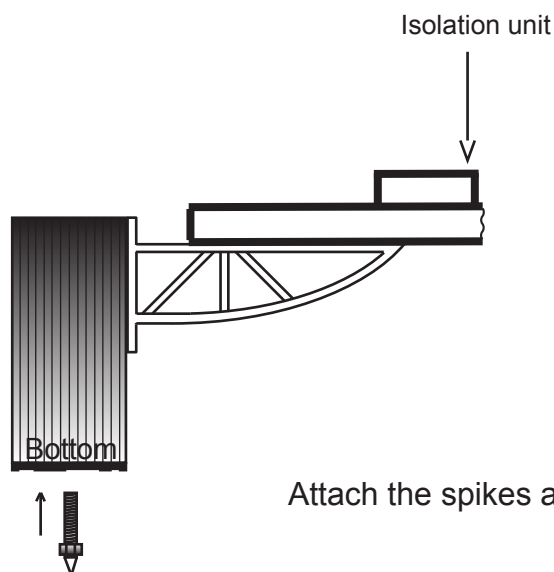


Attention!

Mount the corner-pillar and shelf-bracket-assembly to the shelf at its correct corner.



3.



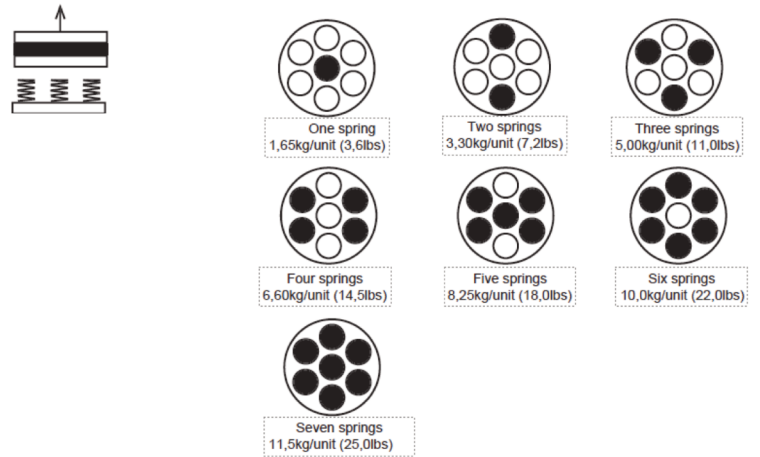
Attach the spikes all the way down.

4.

Remove the upper part of the isolation unit so that each spring can be removed.

Adjust the amount of springs to optimize the isolation efficiency.

With the equipment loaded on the top shelf the distance between top shelf and bottom shelf should be around 1 - 3mm for optimal suspension performance.



Follow the table to the right and adjust the four isolation units per shelf.

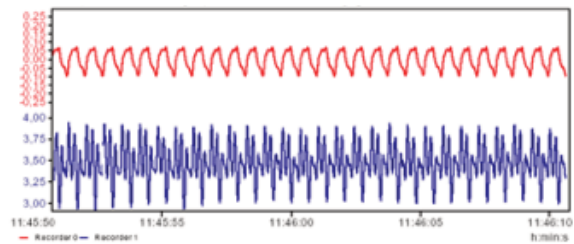
Mount the top shelf and check the bubble level. If needed adjust the amount of springs so that the top shelf is levelled correctly.

Springs per isolation unit	4 units	4 units
	Min (kg)	Min (lb)
1	6,6	14,6
2	13,2	29,1
3	20,0	44,1
4	26,4	58,2
5	33,0	72,8
6	40,0	88,2
7	46,0	101,4

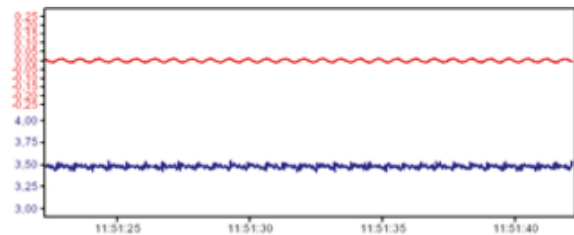
Measurement results on the isolation units

Red Curve = Z direction (the up and down movement)
Blue Curve = X-Y direction (lateral movement – left, right)

50Hz, Sensors (accelerators) placed on the floor



50Hz, Isolations unit placed on the floor, sensor placed on the object



At 50Hz the isolation unit reduces the vibrations with 77,73%