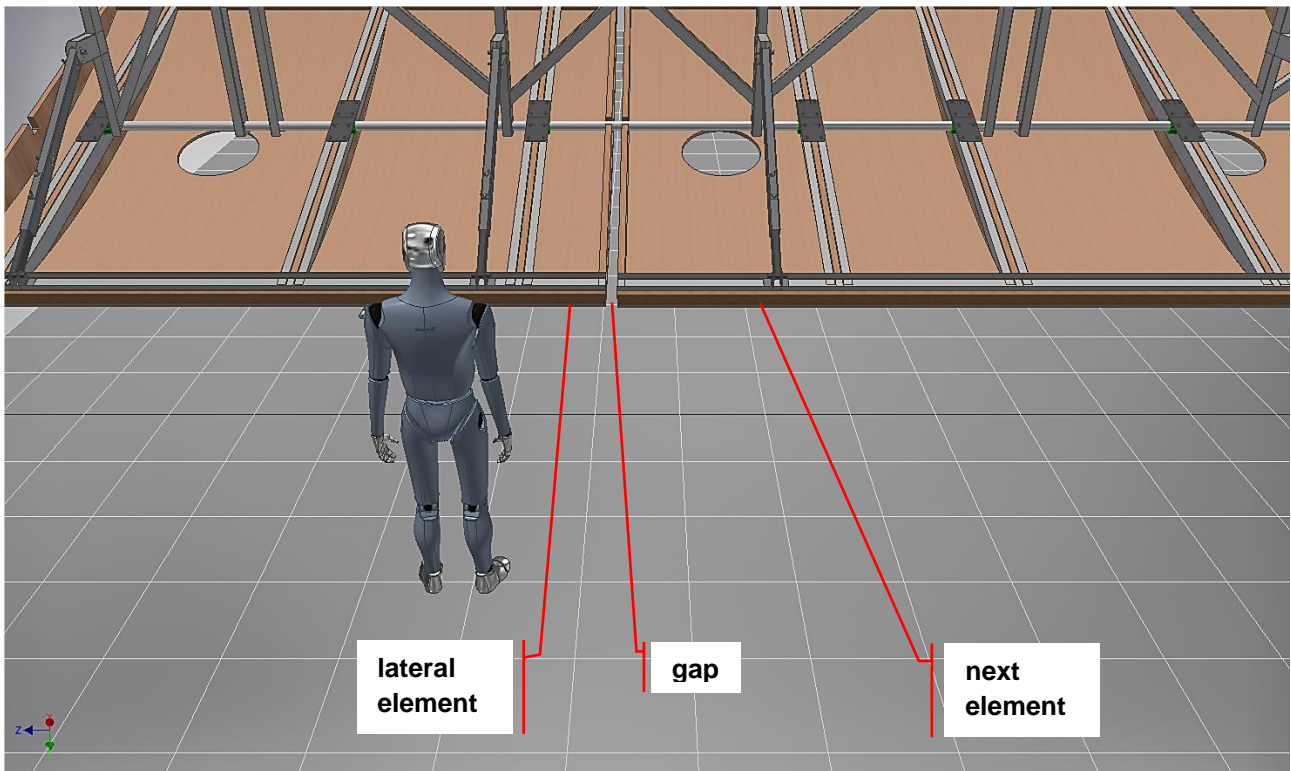


## ACOUSTIC REFLECTOR 2.5m (W) x 17.0m (L) SETUP PROCEDURE:

Acoustic reflectors in general, are very cumbersome: in this case the maximum total length of the bigger one is 17 mt, while the width (common for all panels) is 2,5 mt approximately.

The acoustic reflector was therefore divided into elements of variable lengths up to about 3,7 mt MAX for easier maneuverability

The tilt operation is difficult due to the width much greater than a person's height, so it is necessary to ensure that operators do not have to climb stairs or anything else to change the orientation. That is, if manual winches are mounted on the ladder structure, these would be difficult for operators to access, or if the manual hoist system is on the panel structure, it would be reinforced much for bearing the compression forces (and total weight shall increase too much); therefore, the single panel must be as easy as possible in rotation and this is obtained if the restore force is very low. As anticipated, two remedies are applied: the reflector is divided into separated elements and the hinges must be as close as possible to the center of gravity of the panel.



1 Each element is separated of 30-50 mm from the next one



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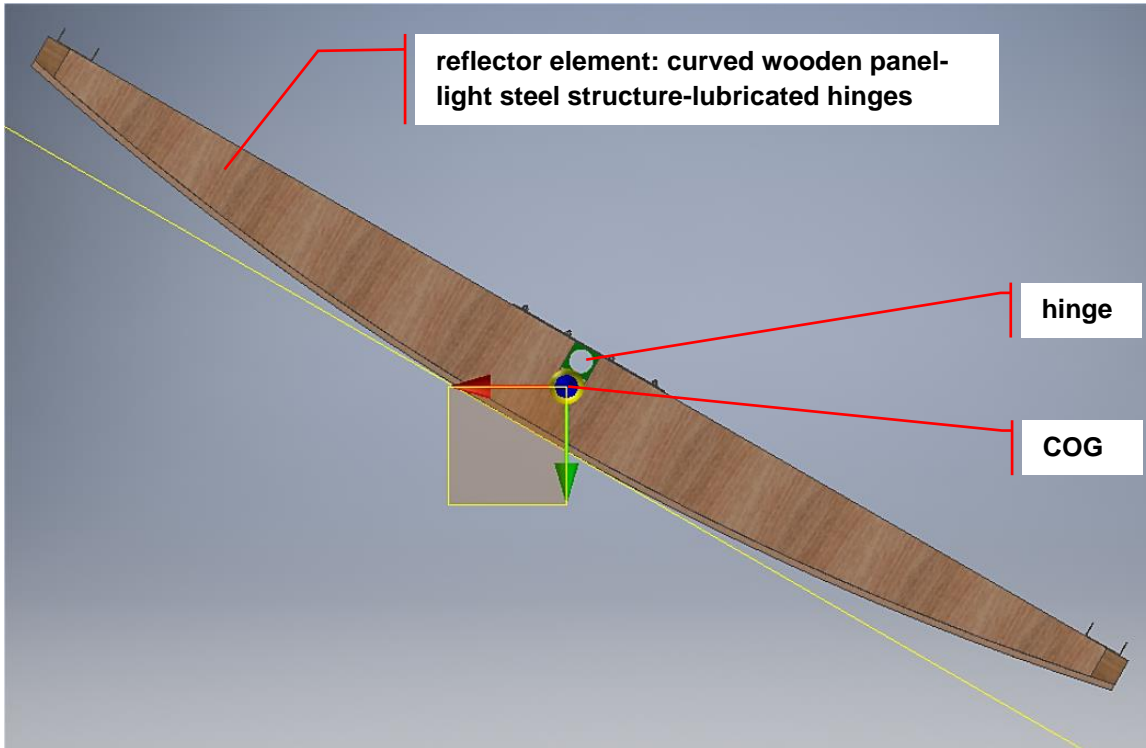
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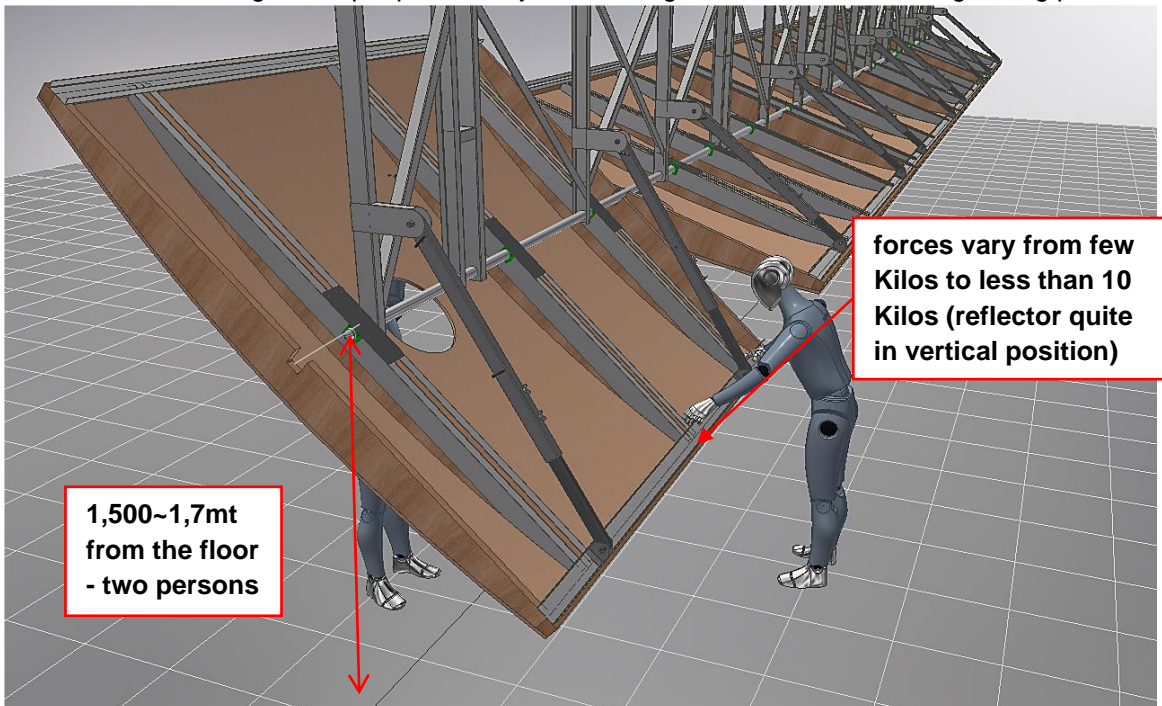
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2.Center of gravity (blue balloon) of the panel close to the hinge (in green color)

## BASIC PROCEDURES:

- a. Clear the stage of all people and objects that might interfere with lowering ceiling panels.



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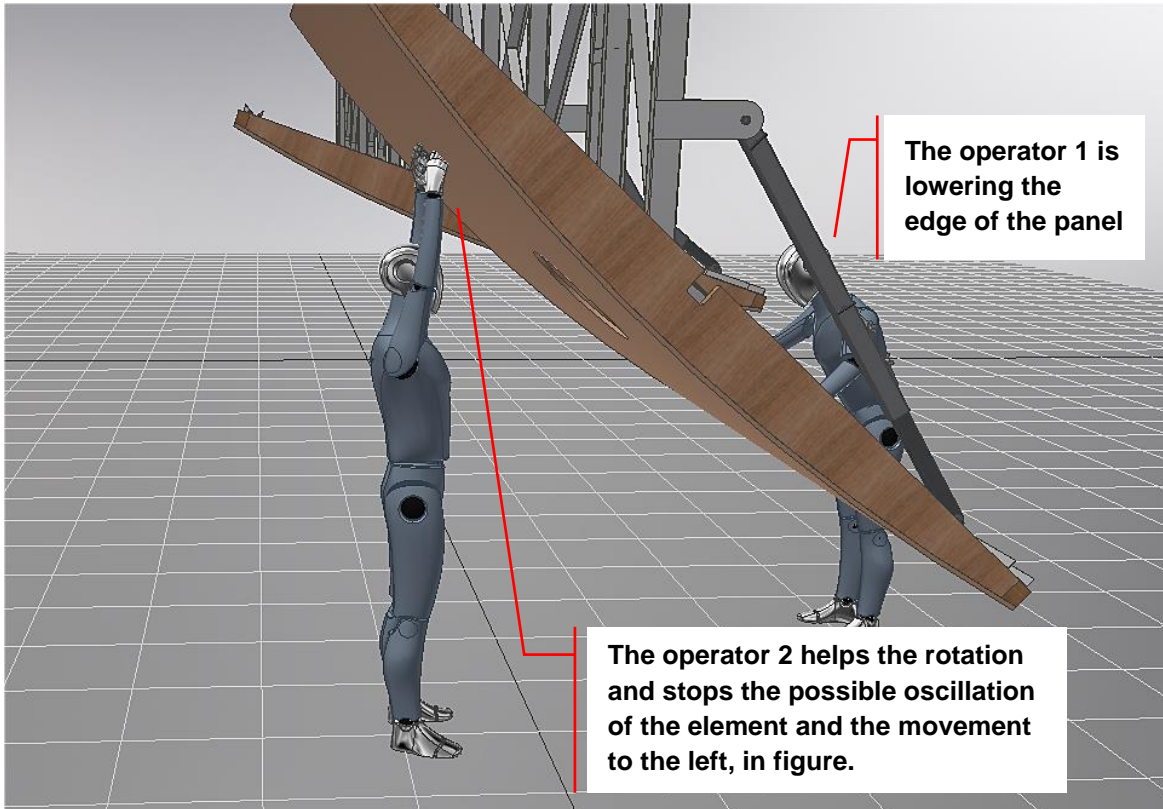
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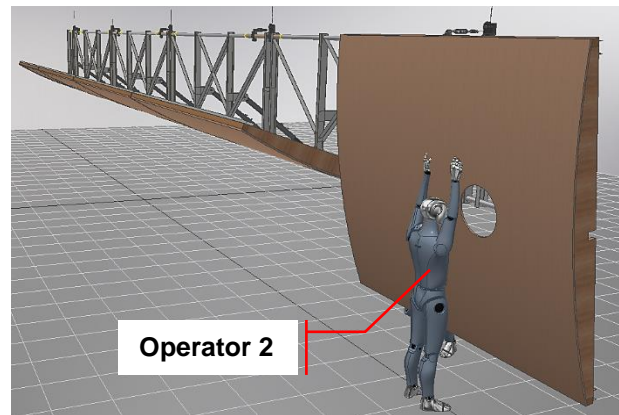
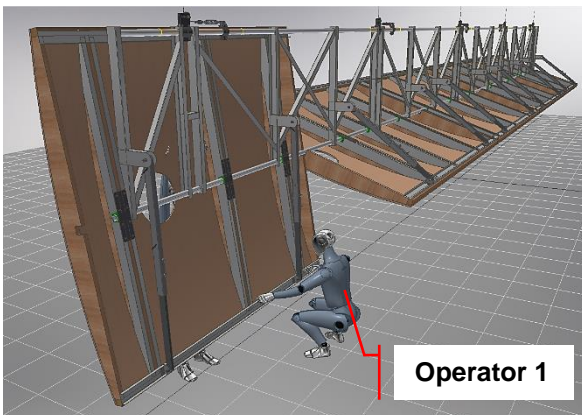
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- b. If a precise reflection angle is requested, the operator 1 pushes the edge of the panel up to the mark on the telescopic tube (if it's already have been repeated) and fixes the two wing screws and then fixes the remaining twos.
- c. If the panel is to be closed, then operator 1 gradually pushes the edge to the vertical orientation of the element, the operator 2 always holds the panel. Then the screw fixing operations are repeated. It may be necessary to push further before fixing the remaining two screws to equalize the closure of the two arms as the return force is low, but the efficiency of the telescopic arm is significantly reduced when it works almost vertically.



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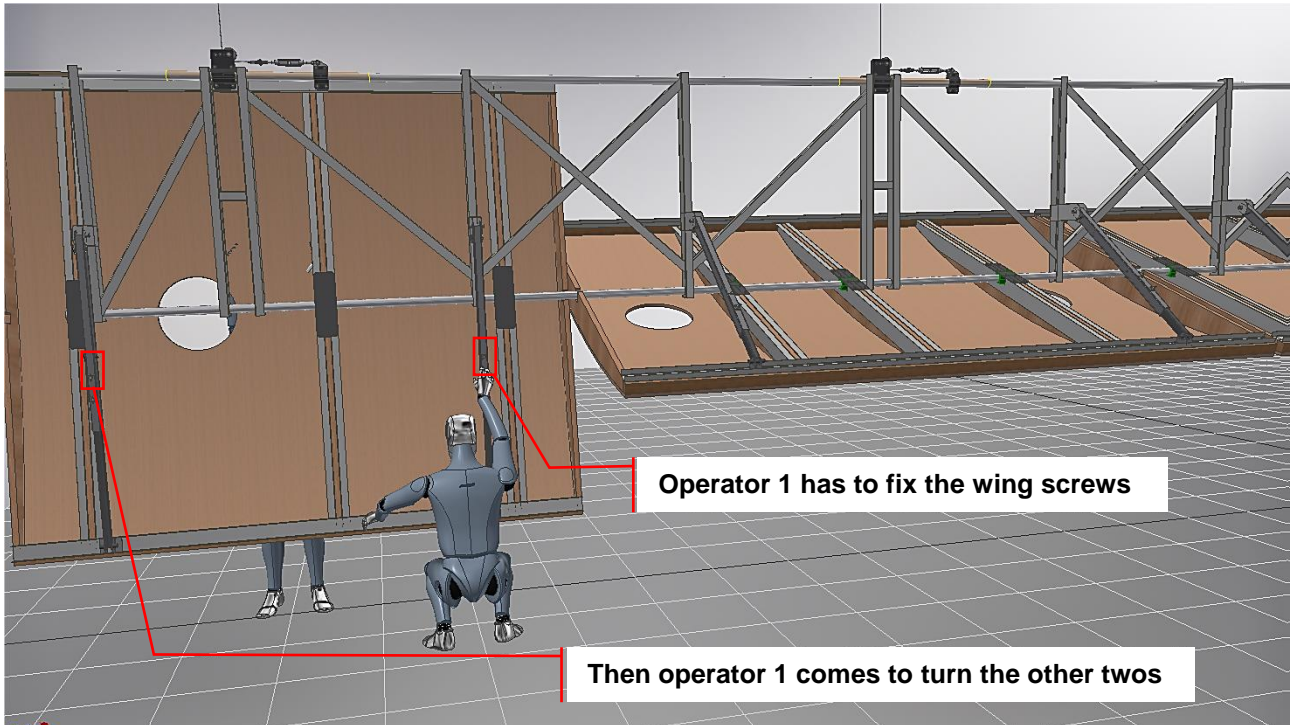
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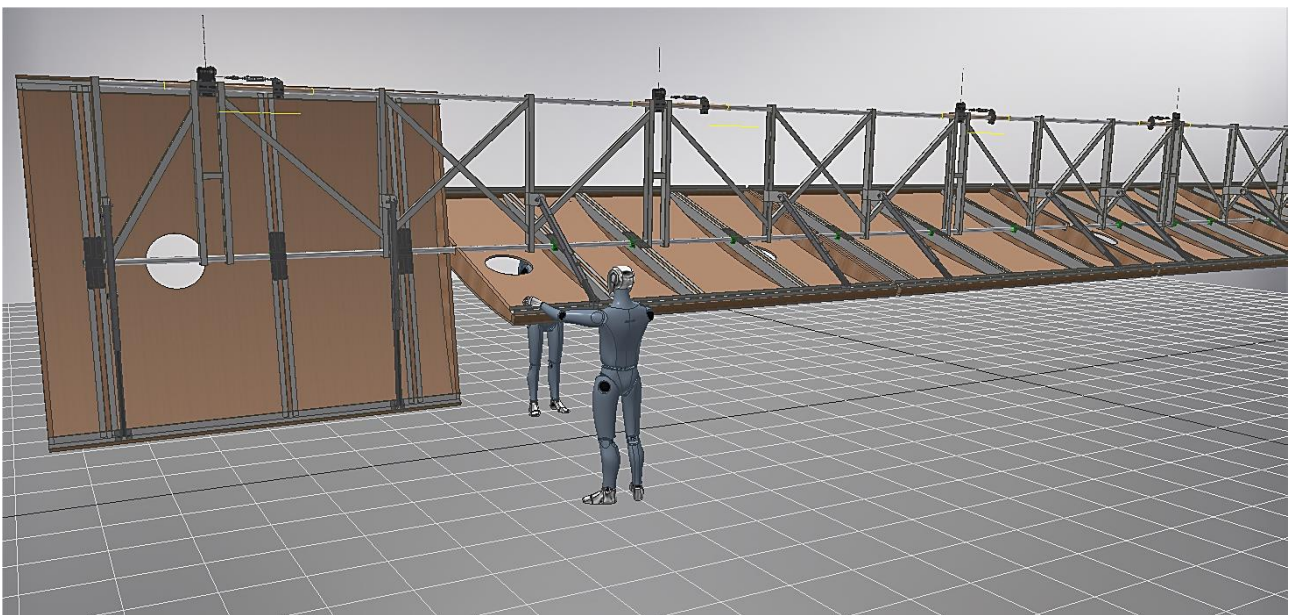
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- d. When the operations are all done for the first element, the two persons can proceed to the next element.



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