THE FLOATING CRADLE IS A MOUNTING SOLUTION FOR LIGHT AND SMALL BOOKS TO BE EXHIBITED OPEN. THE MAIN ADVANTAGE OF THIS SYSTEM IS THAT MAXIMIZES WALL/VERTICAL SPACE WHEN SHELF/DECK SPACE IS LIMITED.

IT IS A SHELF AND A BOOK CRADLE IN ONE. IT WAS INTRODUCED AT THE WINTERTHUR LIBRARY FOR THE EXHIBITION "HAPPY CAMPERS", WHERE THE INTENTION WAS TO SHOW A LARGE VARIETY OF SMALL BOOKS (FROM 22.56 GMS. TO 88.97 GMS. IN WEIGHT).

SUITABLE OBJECTS

NO LIMIT (DIMENSIONS)







90 - 180 DEGREES (OPENING)



PAMPHLETS, LIGHT BOUND MATERIALS AND EVEN NEWSPAPERS CAN BE MOUNTED IN A FLOATING CRADLE BUILT WITH THE MATERIALS ON THIS PROPOSAL. THERE ARE NO LIMITS REGARDING THE SIZE OF THE BOOK, AS FAR AS IT IS NOT TOO HEAVY AND IT CAN BE OPEN TO OR MORE THAN 90 DEGREES, WITHOUT STRESSING THE SPINE. THIS MEANS THAT BOOKS WITH TIGHT JOINT OR OVERSEWN STITCH SHOULD BE AVOIDED.

ELEMENTS OF THE CRADLE

THE FLOATING CRADLE HAS TWO MAIN **ELEMENTS:**

> PRIMARY SUPPORT SECONDARY SUPPORT.

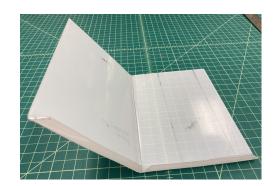
START BUILDING THEM BY KNOWING THE HEIGHT AND WIDTH OF THE BOOK. THEY HAVE TO BE CONSTRUCTED SEPARATELY,

AND THEN PUT TOGETHER.



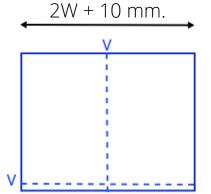
Width of the book (W)

PRIMARY SUPPORT



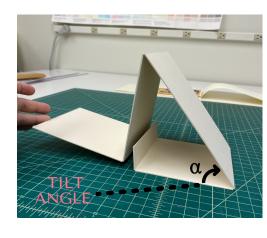
THIS IS A "V" SHAPED, RIGID SUPPORT, MADE OF CLEAR 0.060 VIVAK. THE BOOK IS DIRECTLY STRAPPED TO THIS ELEMENT. ITS CONSTRUCTION BEGINS WITH A SHEET OF VIVAK WITH THE **FOLLOWING DIMENSIONS:**





H +15 mm. (10 mm. included for bottom stopper)

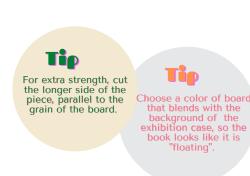
SECONDARY SUPPORT

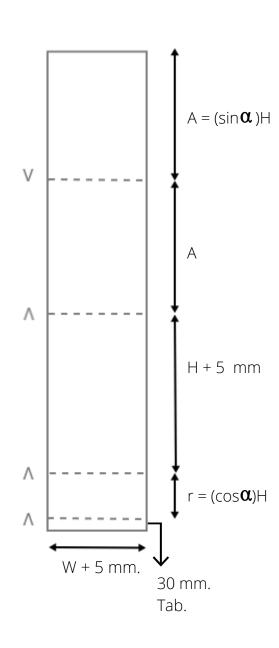


THIS IS A RIGHT TRIANGLE SUPPORT AND THE INTERFACE BETWEEN THE WALL AND THE PRIMARY SUPPORT. IT IS MADE OF 4-PLY MAT BOARD.

THE PRIMARY SUPPORT WILL BE ATTACHED TO THE TILTED FACE OF THE TRIANGLE, GIVING THE ANGLE (α) to the object. The OTHER FACE OF THE TRIANGLE IS ATTACHED TO THE WALL, WHILE THE SHORTER SIDE GIVES DEPTH (R) TO THE CRADLE.

ITS CONSTRUCTION BEGINS WITH A SHEET OF MAT BOARD WITH THE FOLLOWING DIMENSIONS:



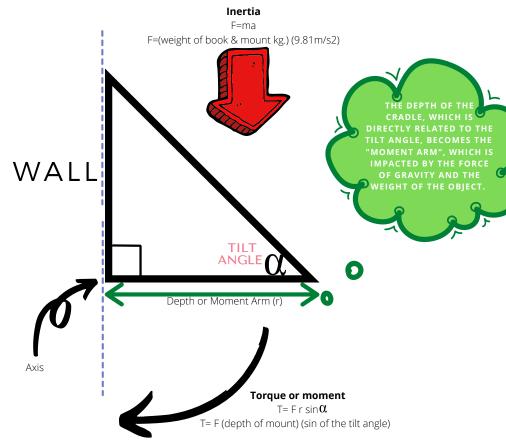


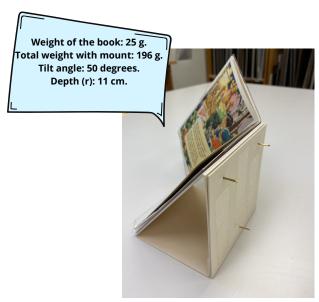
WINTERTHUR MUSEUM, GARDEN, AND LIBRARY BY LUCIA TORNER INTERNATIONAL MOUNT MAKING FORUM OCTOBER 2020



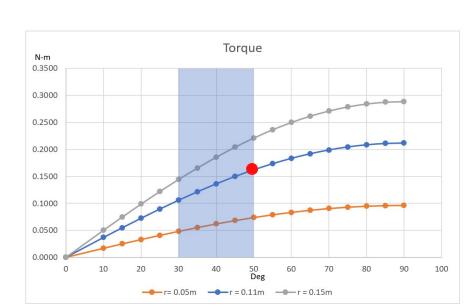
TILT AND DEPTH

THESE TWO ASPECTS OF THE CRADLE PLAY A ROLE IN ITS STABILITY AND THEY NEED TO BE DEFINED TO CREATE THE SECONDARY SUPPORT. A BIT OF PHYSICS AND MECHANICS CAN HELP, SPECIFICALLY, BY CALCULATING THE TORQUE.





THE TORQUE OF THIS SPECIFIC BOOK WITH THIS SPECIFIC MOUNT IS 0.162 NM (🛑). BY EXPERIENCE, IT IS KNOWN THAT NAILS AND 415 TAPE HOLD IT IN PLACE ON A CORK AND FABRIC WALL, FOR AT LEAST FOUR MONTHS. THIS CAN BE USED AS REFERENCE FOR UPCOMING EXHIBITIONS.



BY KNOWING THE TORQUE AT DIFFERENT SCENARIOS OF DEPTH AND TILT ANGLE, WE CAN FIND MORE STABLE DIMENSIONS FOR THE CRADLE. THIS GRAPH SHOWS A CONSIDERABLE INCREASE IN TORQUE AS BOTH, DEPTH AND TILT ANGLE INCREASE. HOWEVER, THE INCREASE IN TORQUE IS SIGNIFICANTLY HIGHER BY THE CHANGE OF DEPTH COMPARED TO THE CHANGE IN ANGLE.

BUILD THE CRADLE - PHOTO STEPS

 $\underline{\textbf{Construction}}$ Measure the book and opening angle.
calculate dimensions
and the tilt angle. Cut
the pieces of mat
board and Vivak.

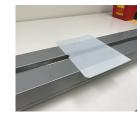








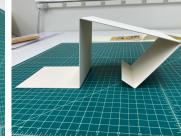




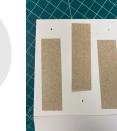


Continue with the secondary support:
Mark and crease the folding lines on the piece of board. Pay close attention to the orientation. Fold.











Remove the film Practice putting together primary and secondary supports.

















Installation Remove the back from the tape on the first panel of the board and attach it to the wall; immediately, nail the panel to the









