



project by ARCò



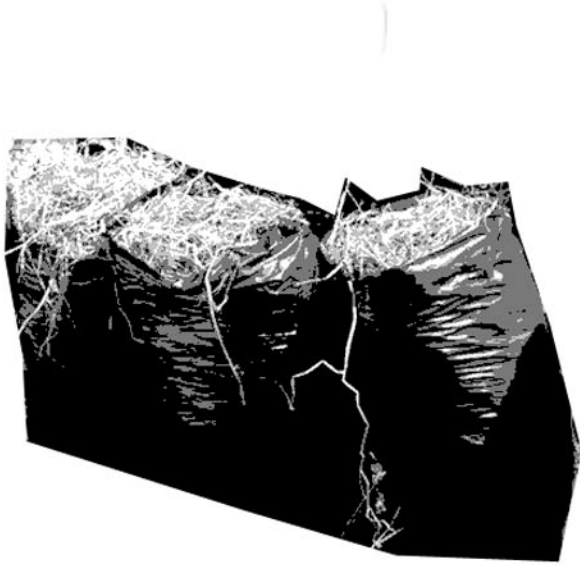
Diego Torriani  
Claudia Romano  
Carmine Chiarelli  
engineers

Albert Alcalde  
Alessio Battistella  
Valerio Marazzi  
Luca Trabattoni  
architects

# STRAW-MUD MIXTURE PREPARATION

1a

## TOOLS

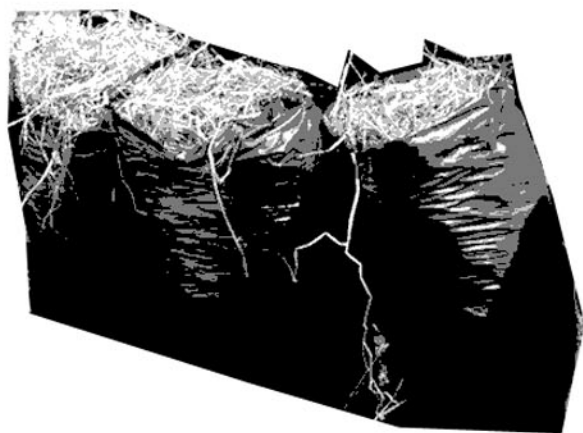


START DIGGING  
A WIDE HOLE  
PUT WATER AND  
MIX WITH SOIL





## TOOLS



USE YOUR **FEET**  
TO TO MIX ALL THE INGREDIENTS  
IN THE HOLE YOU HAVE DIGGED

**CUT STRAW** IN THREADS  
OF HAND'S BREADTH LENGHT  
**AND MIX** WITH **SOIL**  
**AND WATER**

PROPORTIONS:

1 PART OF WATER  
2 PARTS OF SOIL  
4 PARTS OF STRAW

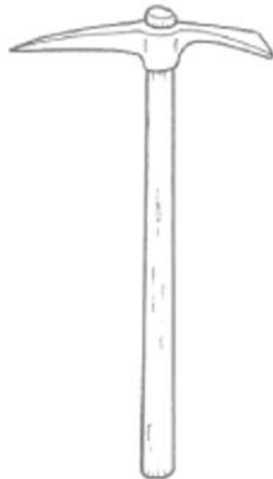


# TOOLS

## INTERNAL WALL CONSTRUCTION

2a

FIX YOUR TIMBERS ON THE INTERNAL SIDE OF THE METAL SHEET AT LEAST EACH METER AND AT THE CORNERS, USING NAILS AND HAMMER

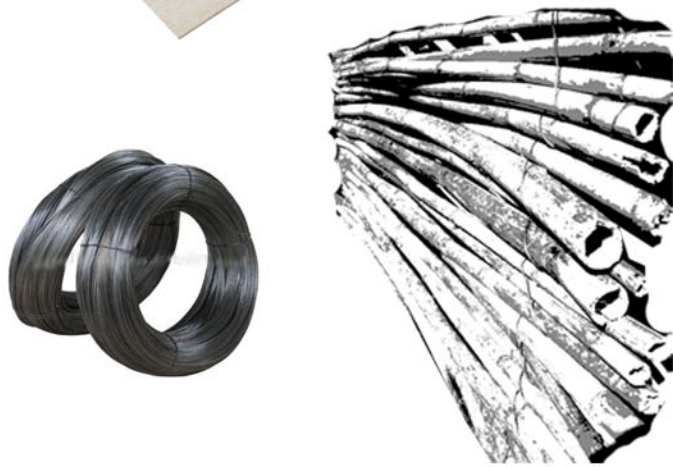




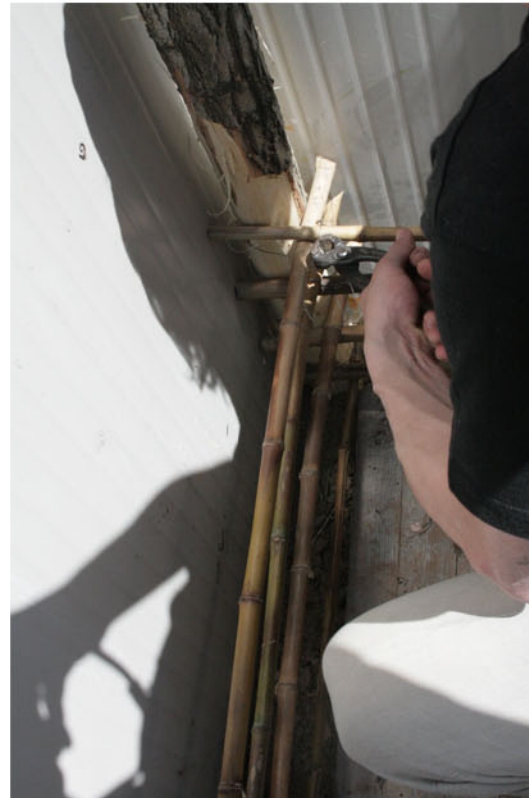
TOOLS



START PLACING BAMBOO  
CANS FROM THE CORNER.  
CROSS THE CANS  
AND PLACE A NEW ROW  
EACH  
10 CENTIMETERS

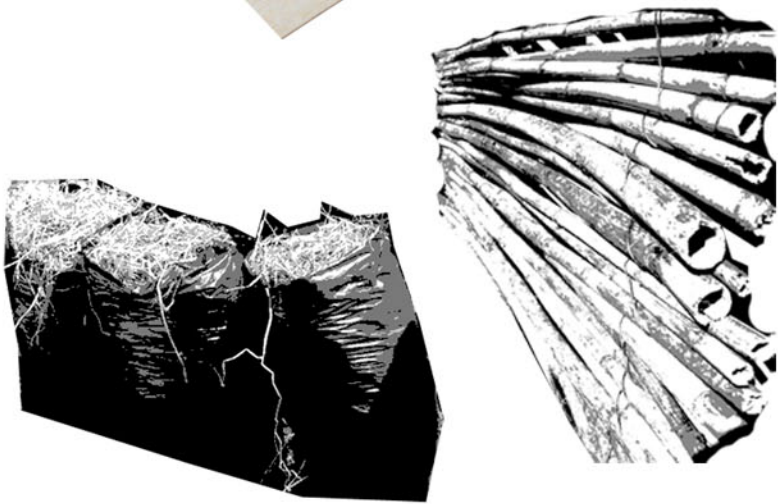


CONNECT THE CANS AND FIX THEM  
TO THE TIMBERS BY USING  
IRON WIRE  
AND CLOSING IT WITH THE PINCERS



# INTERNAL WALL CONSTRUCTION

## TOOLS



PAY ATTENTION TO THE  
**HORIZONTALITY** OF  
THE BAMBOO CANS

WHEN YOU HAVE WELL FIXED THEM,  
AND MADE A PANEL AROUND 1/2 METER HIGH  
**START PUTTING THE MIXTURE**  
**OF MUD, WATER AND STRAW**  
YOU HAVE PREPARED





FILL THE CANS UNTIL THE TOP AND THEN START MIXING THE **PLASTERING**. IF YOU HAVE NO MACHINES USE YOUR FEET. YOU CAN PUT IT ON THE WALL WITH YOUR **HANDS**

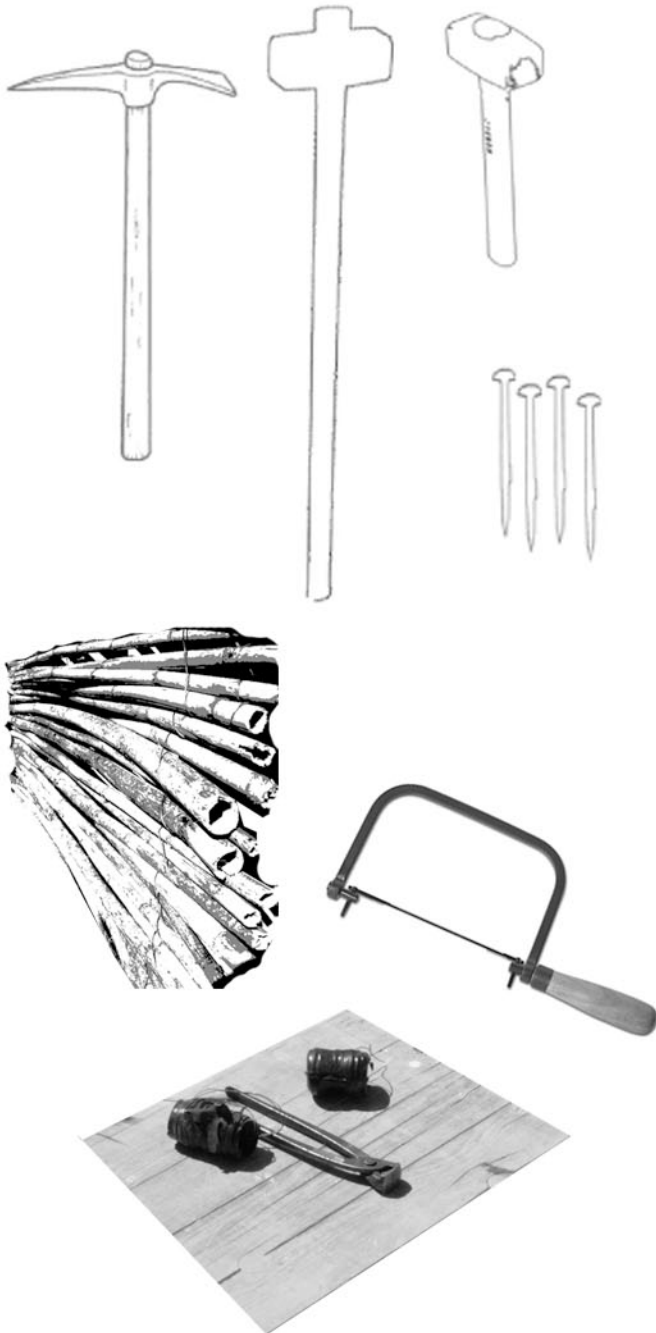


## TOOLS





## TOOLS



NOW YOUR INTERNAL WALL BECOMES DRY. YOU CAN WORK ON THE EXTERNAL SIDE.



FIX THE TIMBERS WITH  
**NAILS AND HAMMER**  
TO MAKE A SOLID FRAME



THEN START FIXING BAMBOO CANS  
TO THE FRAME WITH THE  
**IRON WIRE**  
AND CUT THEM OF THE SAME  
LENGHT



TOOLS

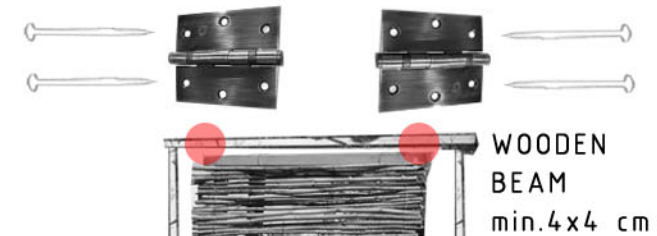




TOOLS



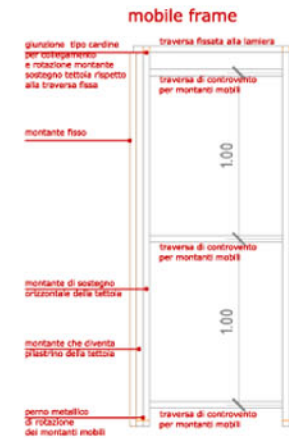
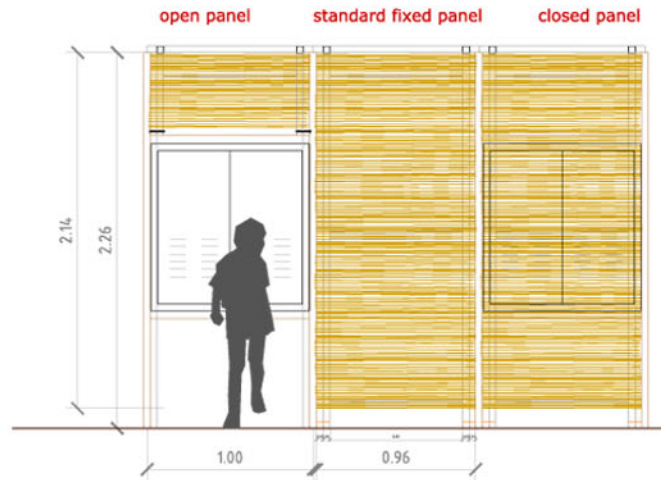
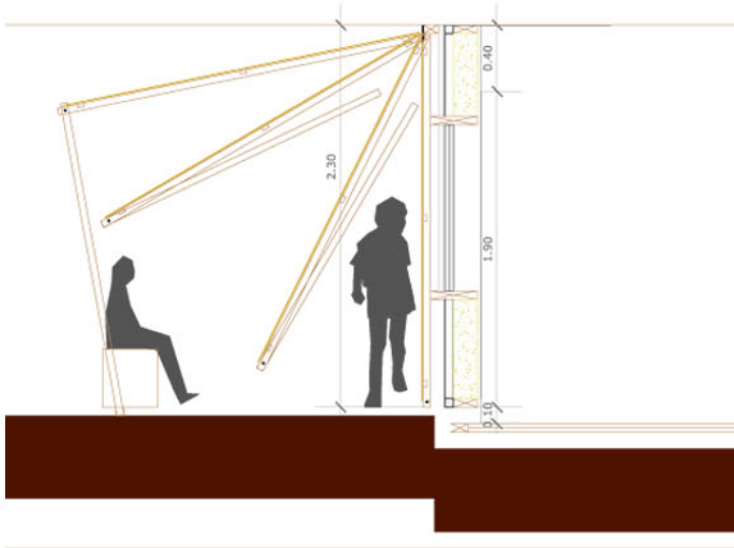
YOUR SHADING PANEL IS READY TO BE FIXED TO YOUR WALL ON THE EXTERNAL SIDE



SHADING PANEL  
2x1 m

USE NAILS, HAMMER AND PIVOTS TO FIX YOUR SHADING PANEL TO THE EXTERNAL WOODEN BEAM OF YOUR WALL





## OPEN YOUR PANEL AND USE IT AS A SHADING ROOF





# MOBILE SHADING PANELS

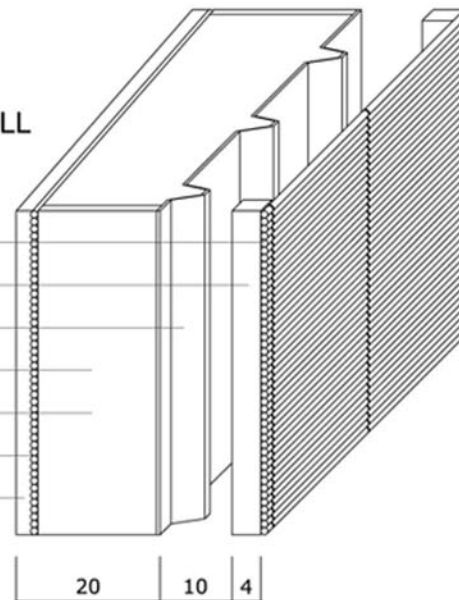
4e





## THERMAL INSULATING VENTILATED WALL MURO ISOLANTE VENTILATO

- cane made shading panel  
*pannello schermante cannucciato*
- timbers 4x4 cm supporting cane panels  
*montante legno 4x4 cm di supporto del cannucciato*
- existing sheet metal finish  
*lamiera metallica esistente*
- timber 4-2x20 cm for internal frame  
*montante 4-2x20 cm per telaio isolamento interno*
- thermal insulating layer made by mud and straw (1 water - 2 soil - 4 straw)  
*riempimento con argilla e paglia (con proporzioni: 1 acqua - 2 terra - 4 paglia)*
- plastering support layer made with canes  
*cannucciato di aggrappo dell'intonaco*
- internal lime plastering  
*intonaco interno in calce*



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abu hindi school's instruction booklet

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