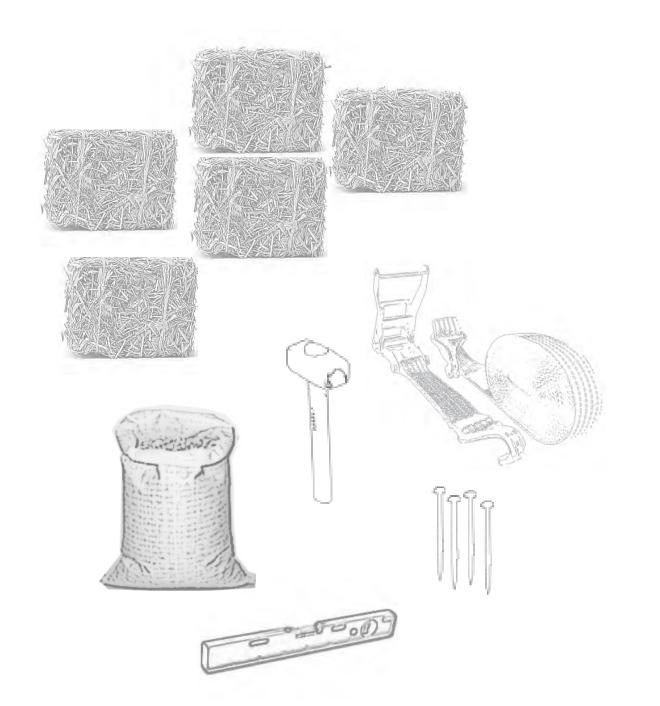
REHABILITATION OF KHAN AL AHMAR SCHOOL

instruction booklet





project by

ARCò



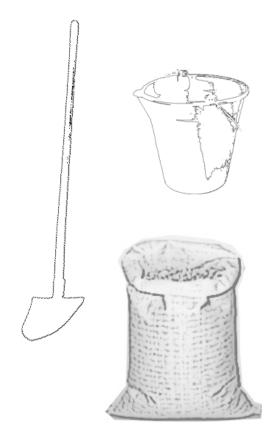
Società Cooperativa
Via Lamarmora, 2
20122 – Milano, Italy
info@ar-co.org
www.ar-co.org

organization

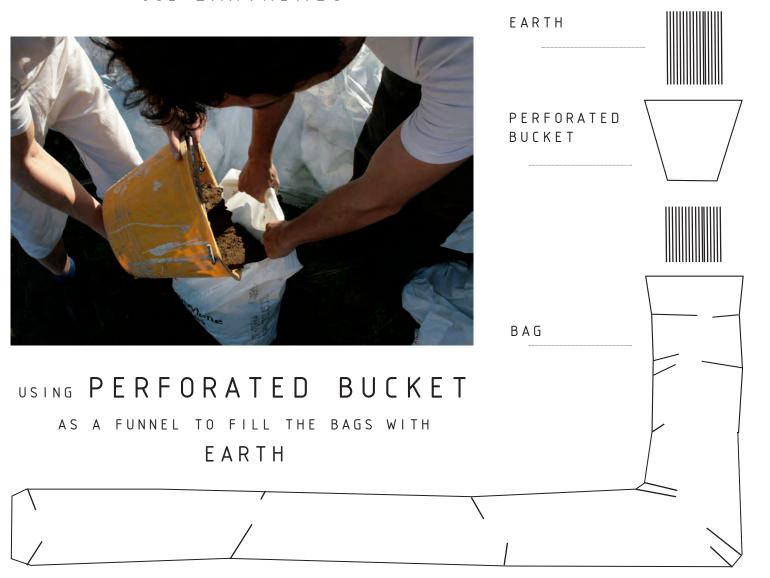
Vento di Terra N.G.O.

FOUNDATIONS

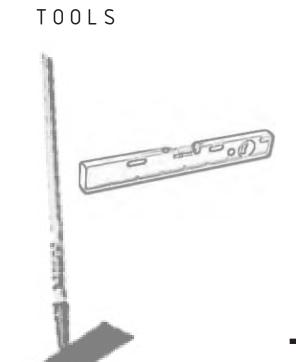
TOOLS

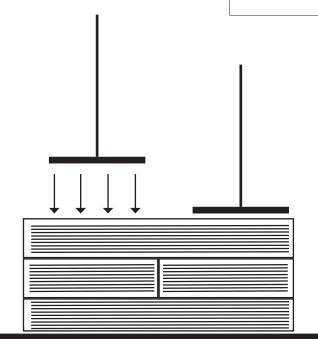


TO SEPARATE THE STRAW BALES FROM THE GROUND IT'S POSSIBLE TO USE EARTHBAGS



PRESSURE





PRESS EVERY ROW OF BAGS

WITH A

FLAT SURFACE

AFTER LAYING AND



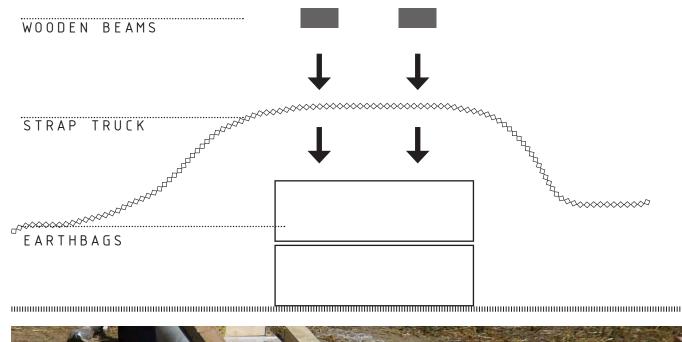


JLS

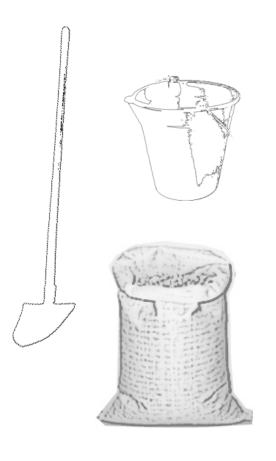
STRAW FIXING SYSTEM

FIX THE STRAW BALES ON THE EARTHBAGS WITH

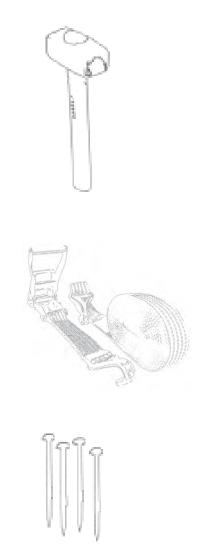
STRAPS TRUCK AND A SYSTEM OF WOODEN BEAMS







STRAW FIXING SYSTEM



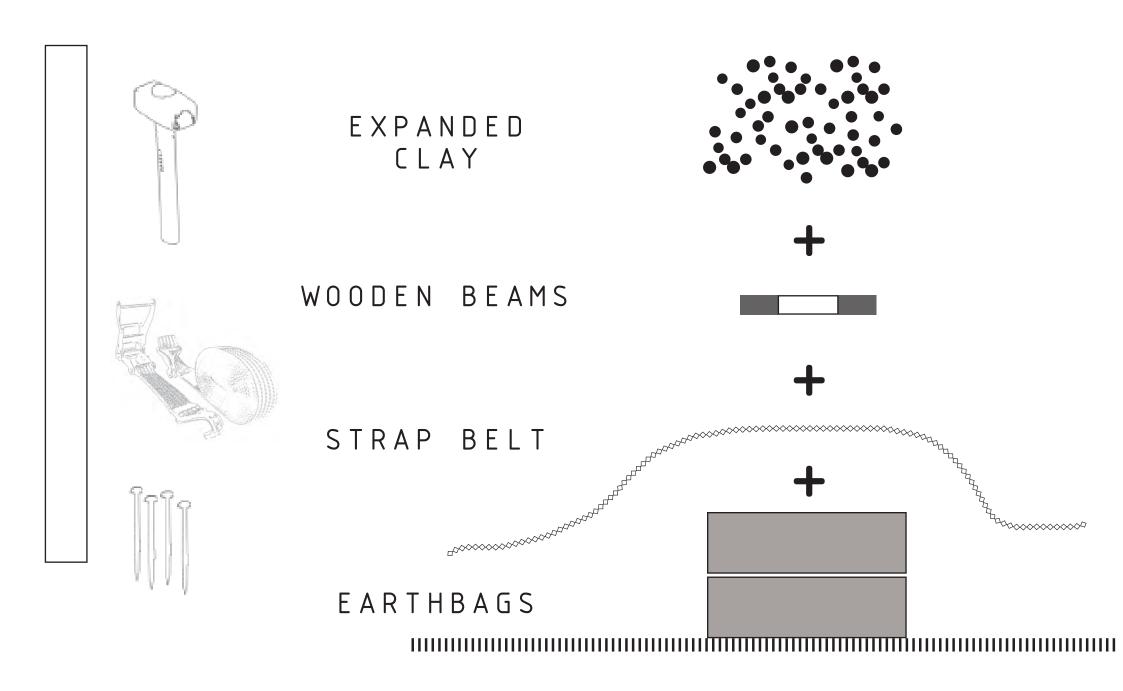
THE TWO LINES OF
WOODEN BEAMS CREATE
A FLAT COMMON LEVEL

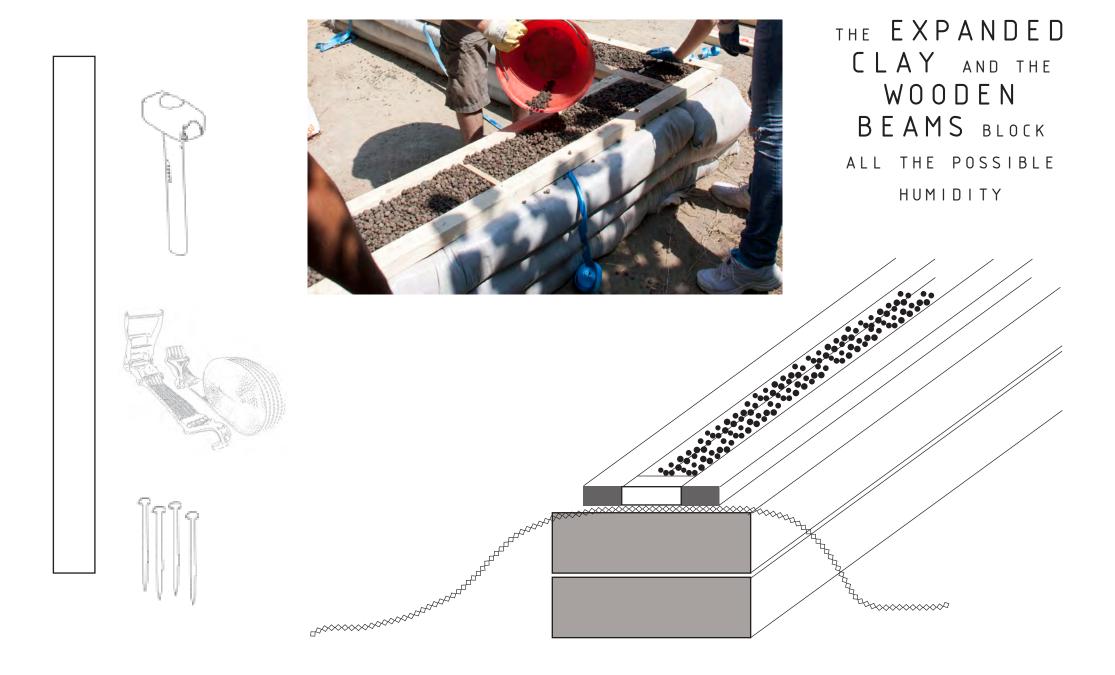


LINK THE BEAMS WITH METAL PLATES TO FORM A RIGID SYSTEM TO FIX THE STRAPS BELT AND CREATE THE BASEMENT FOR THE STRAW BALES



STRAW FIXING SYSTEM

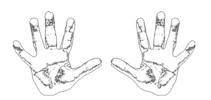




STRAW BALES

TOOLS





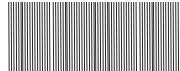
BALES ONE

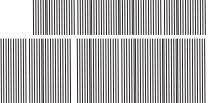
AFTER THE

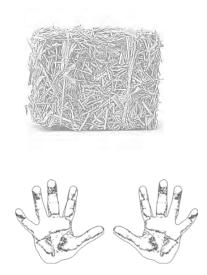
OTHER

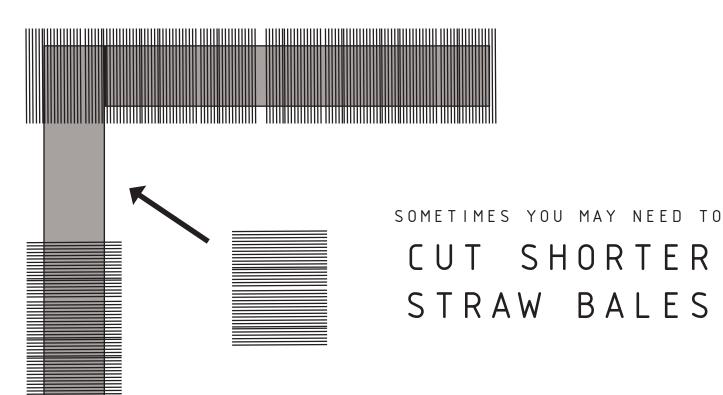


the center line of the bale goes above the junction point









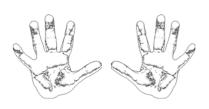


THE SHORT BALE

TOOLS

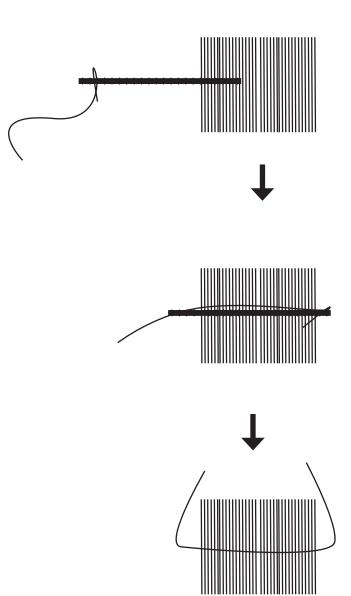




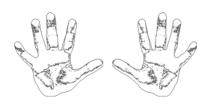


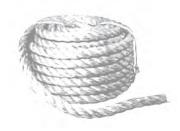
NEEDLE WITH A NEW STRING







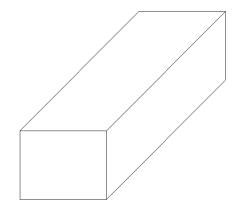


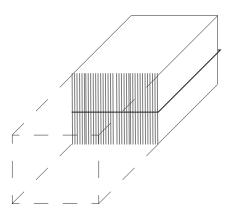


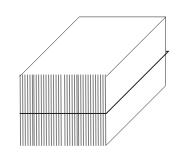
MAKE A NEW KNOT AND CUT THE OLD STRING
TO OBTAIN TWO SHORTER STRAW BALES
FROM ONE.



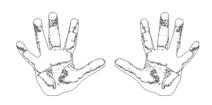
WITH HALF STRAW BALE







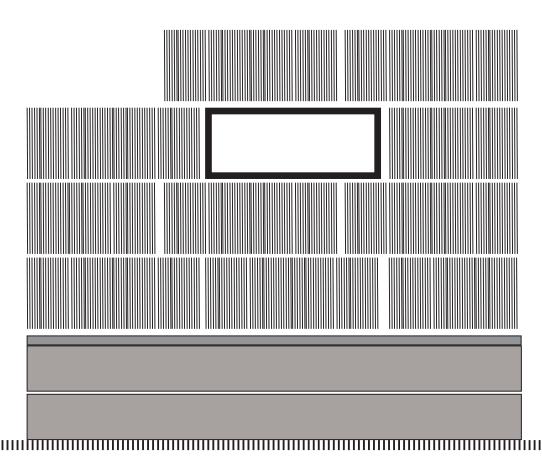






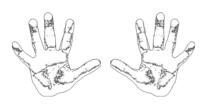
USE A WOODEN FRAME WITH THE SAME DIMENSION OF ONE OR MORE STRAW BALES TO OPEN A WINDOW INSIDE THE WALL

PUT THE WINDOW IN THE HOLE THAT REMAINS



WINDOW





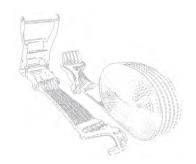




FIX THE WALL

TOOLS





PUT A SECOND LAYER OF

WOODEN BEAMS

WITH EXPANDED

CLAY

JOIN THE STRAP

BELT TO

COMPRESS THE STRAW

BALES WALL AND

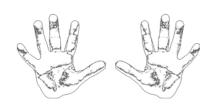
CONNECT

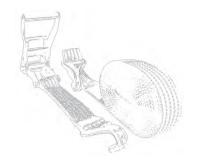
THE TWO WOODEN FRAMES

AND PRESS UNTIL YOU

REACH A FLAT LEVEL





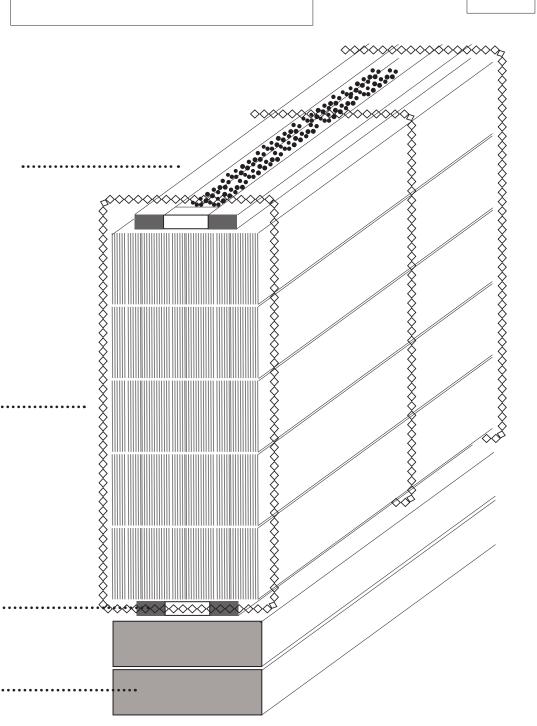


ABOVE WOODEN BEAMS

STRAP BELT

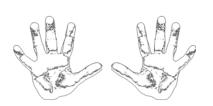
BELOW WOODEN BEAMS

EARTHBAGS

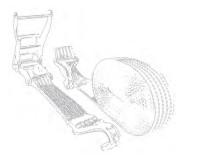


FIX THE WALL

TOOLS



ABOVE WOODEN BEAMS



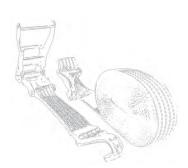
STRAP BELT

EARTHBAGS

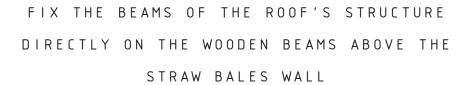


ROOF

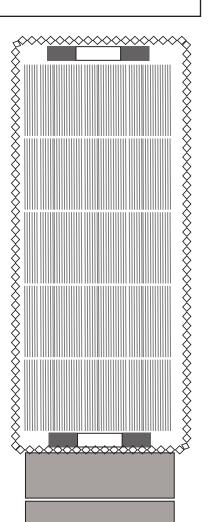


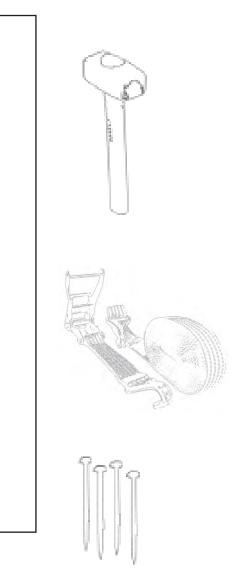








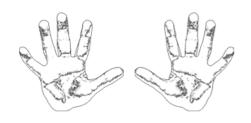






PLASTERING

TOOLS





PLASTER THE WALL BY

HANDS WITH MIXTURE OF

CUT STRAW, SAND AND

CLAY OR LIME





THE FIRST PLASTERING

LAYER HAS MORE STRAW

THAN THE OTHERS TO

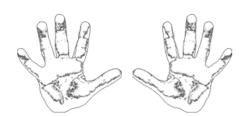
BETTER FULFILL THE

POSSIBLE HOLES IN

BETWEEN THE STRAW BALES

1 1

FINISH







FINISH









graphic project by



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