

Client  
Organization  
**VENTO DI TERRA N.G.O.**



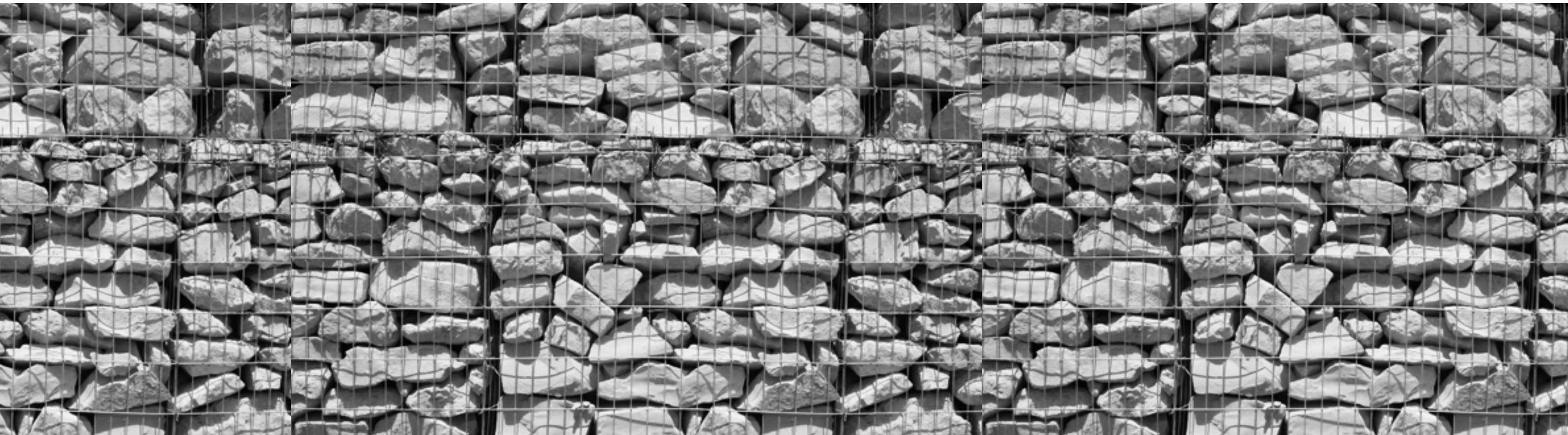
**EMERGENCY REHABILITATION  
OF LOW ENVIRONMENTAL IMPACT  
FOR 4 PRIMARY SCHOOLS**

Object  
**NEW CLASSES OF AL JABAL SCHOOL**  
Emergency interventions for a school in Area C

Project Design by  
**ARCò - Architettura e Cooperazione**  
Società Cooperativa



## STONE GABIONS



Project by —

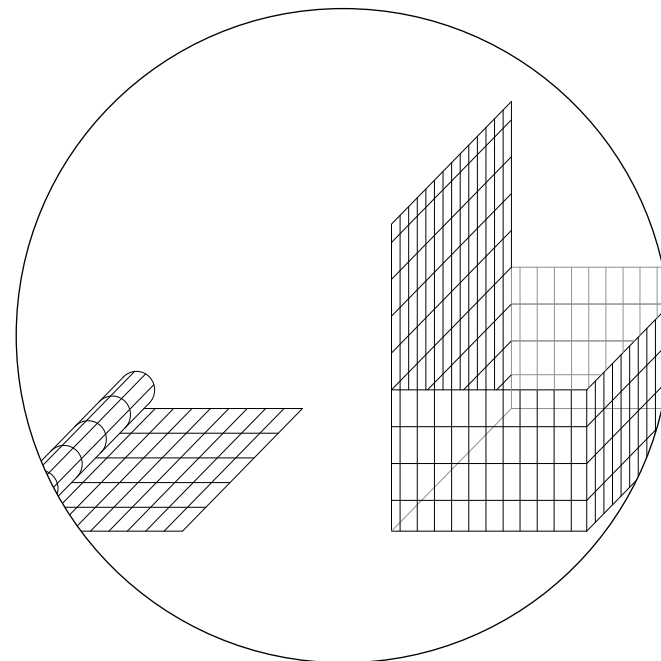






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SOIL PITTING  
&  
COLLECTING  
STONES



1

CREATION OF  
THE **GABIONS**



2

FILLING WITH  
LOCAL **STONES**



3

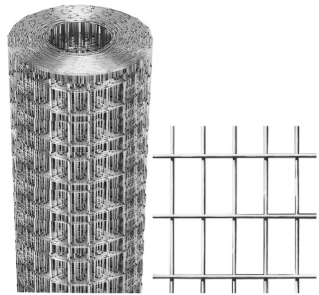
FINAL RESULT



# CREATION OF THE GABIONS STEP 1.1

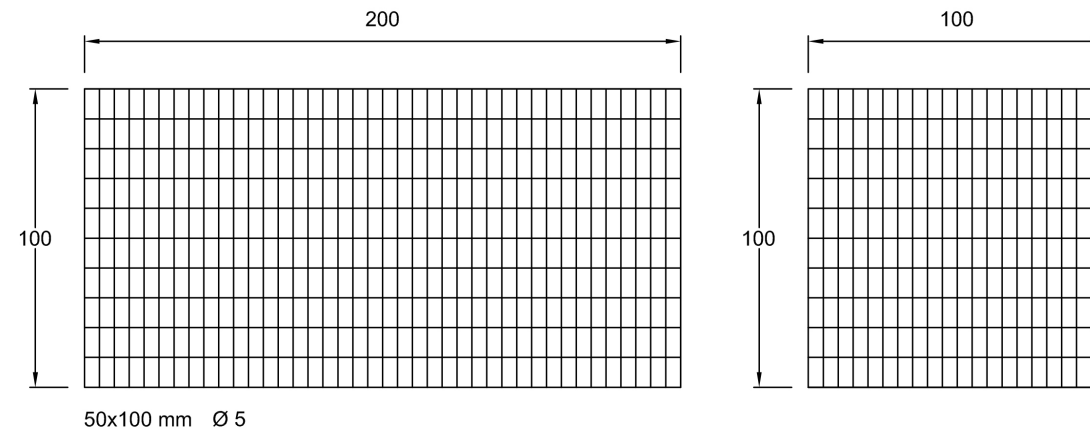
## TOOLS

- HARDWARE CLOTH
- SCISSORS FOR METAL

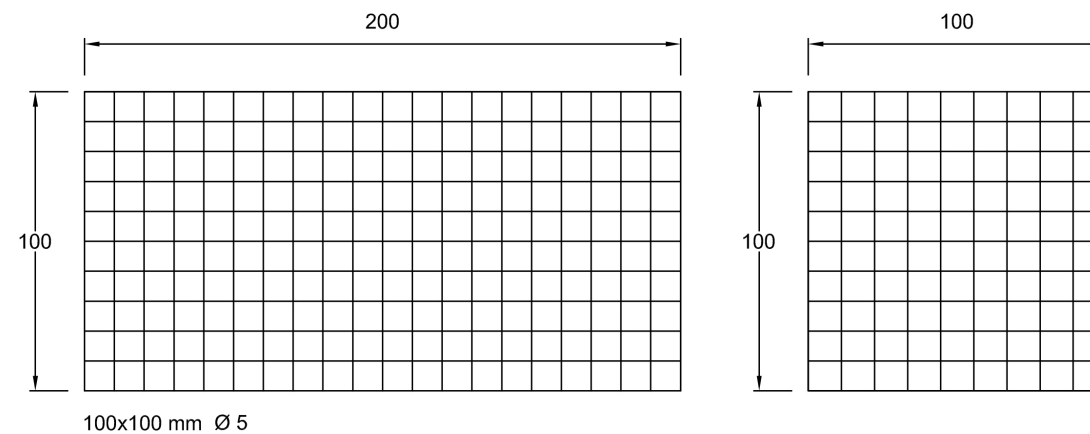


## HARDWARE CLOTH TYPES

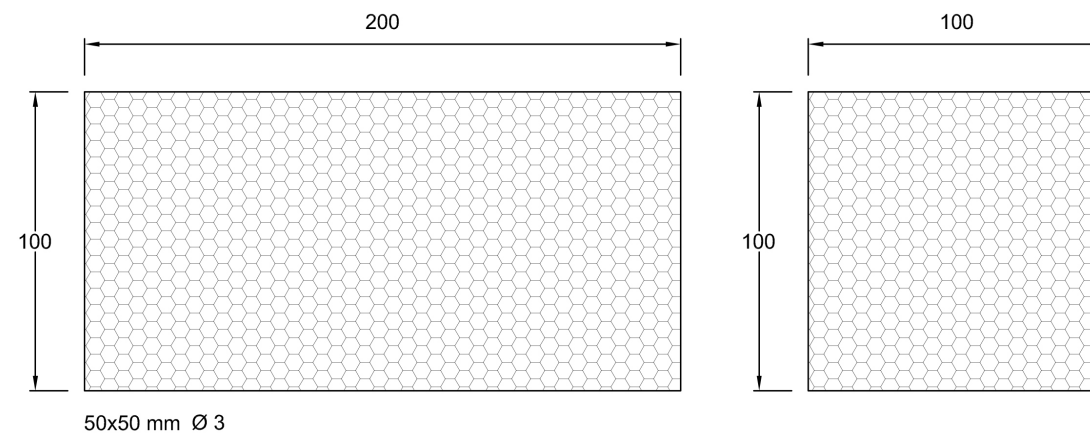
### 1. GALVANIZED ELECTRO-WELDED MESH (rectangular grid)



### 2. GALVANIZED ELECTRO-WELDED MESH (square grid)

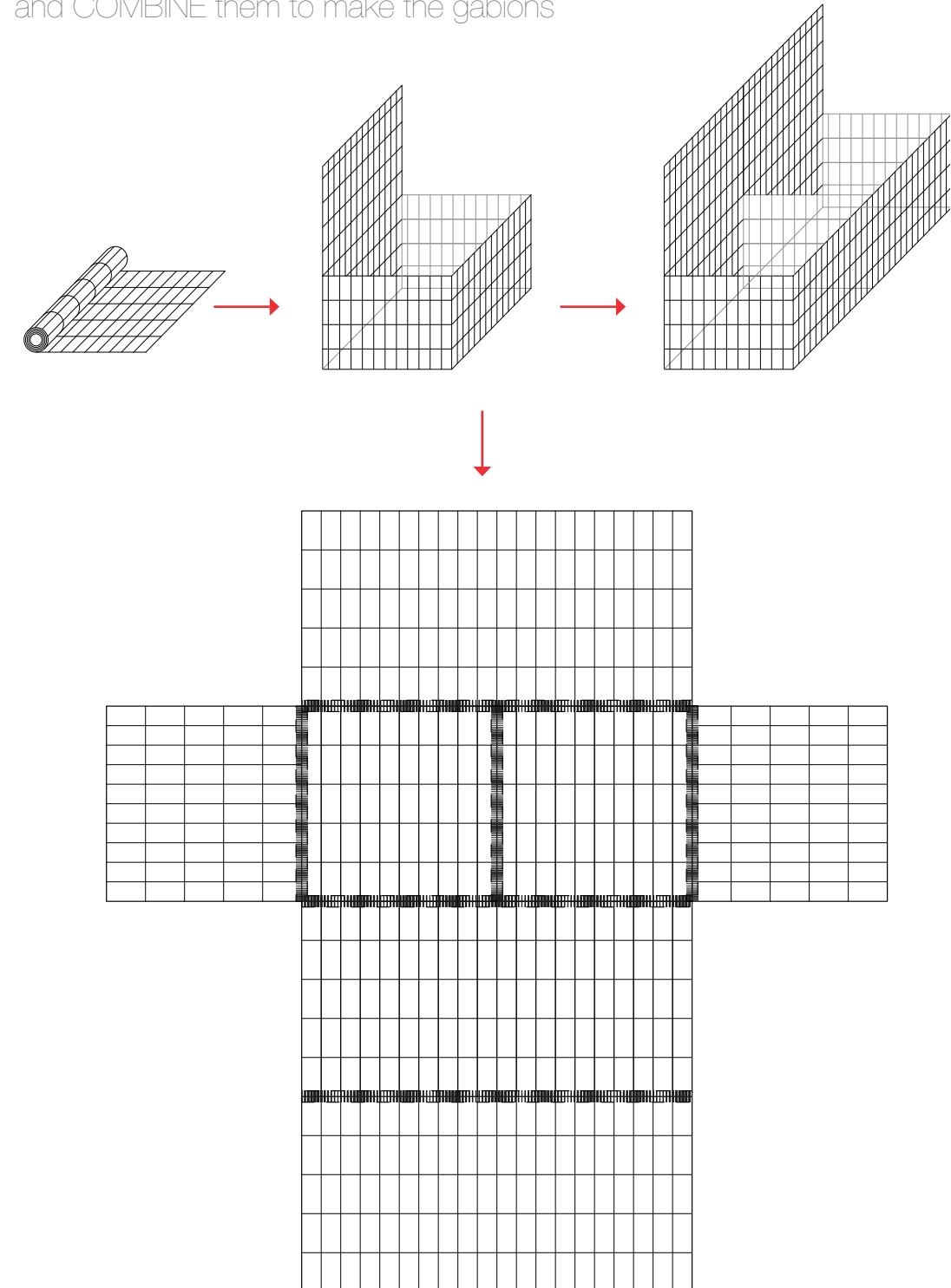


### 3. HEXAGONAL MESH



## PROCESS

Cut the rolled mesh in METALLIC PAPERS (with the required dimensions) and COMBINE them to make the gabions



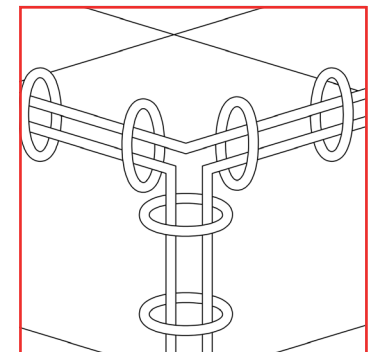
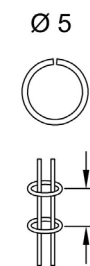
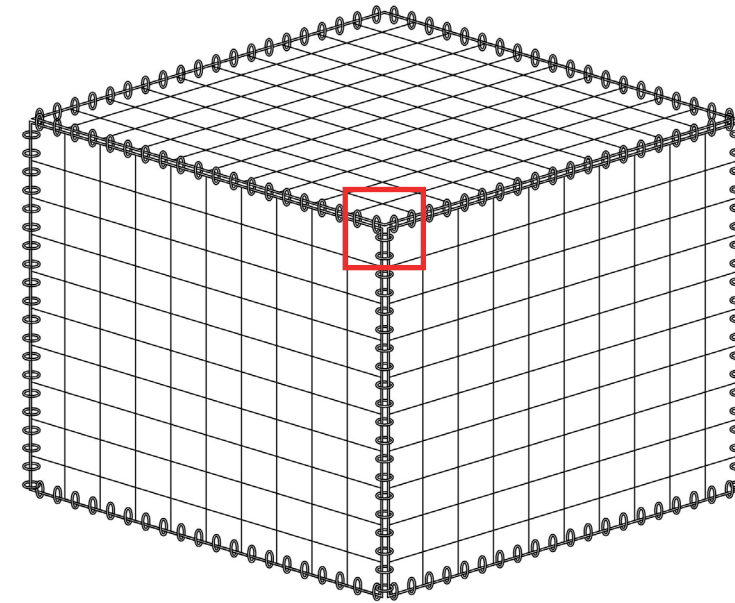
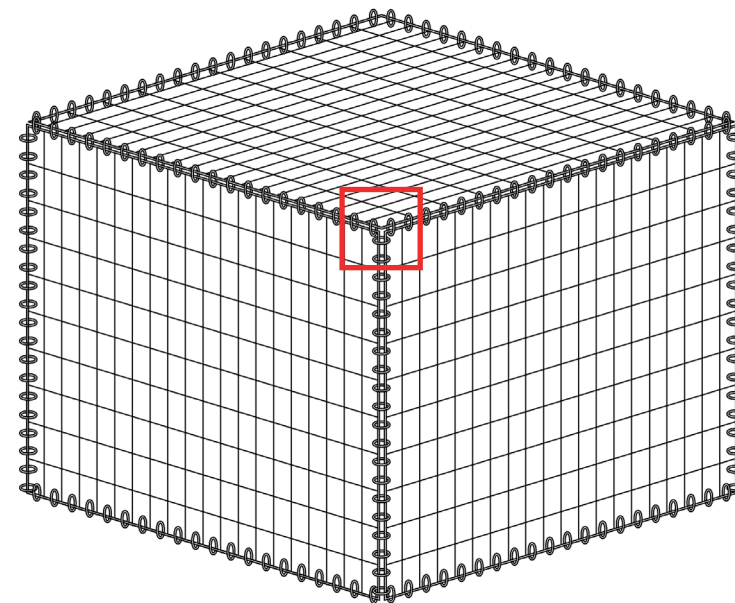


## TOOLS

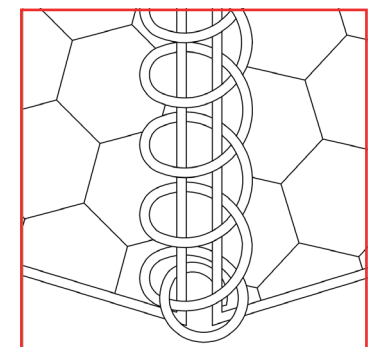
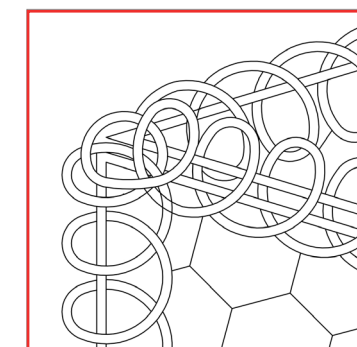
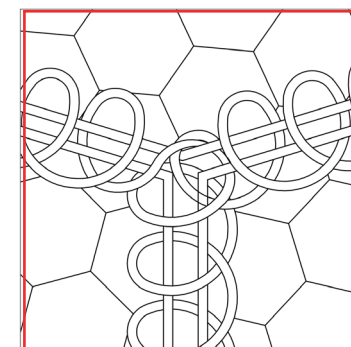
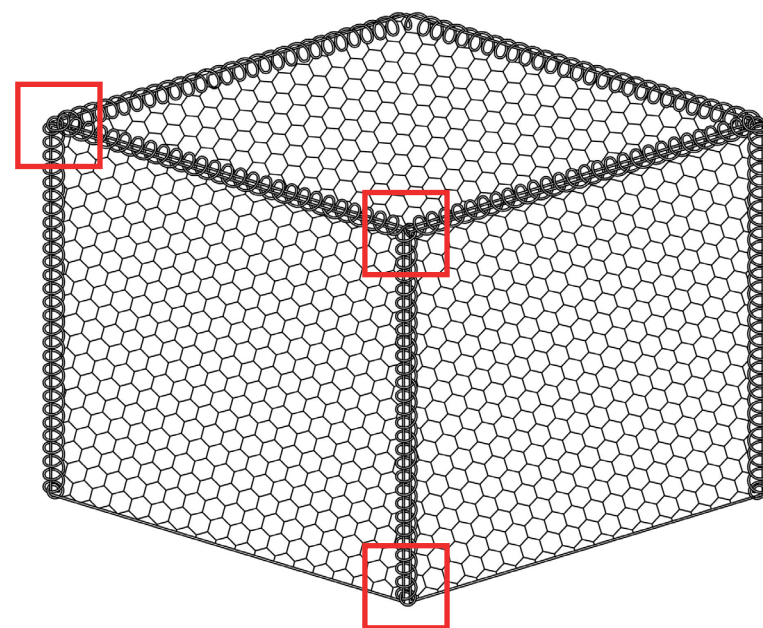
- PINCERS
- WIRE
- METAL RINGS
- HELICOIDAL CABLE

## STEEL BOXES AND CONNECTIONS KNOTS

### 1. KNOT WITH METAL RINGS CLOSED BY PINCERS



### 2. KNOTS WITH HELICOIDAL CABLE CLOSED AND ROLLED WITH PINCERS



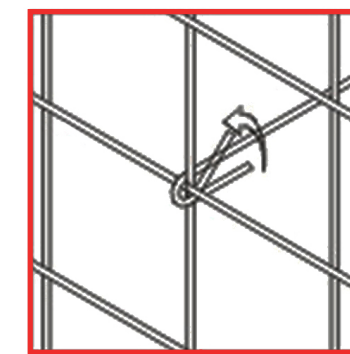
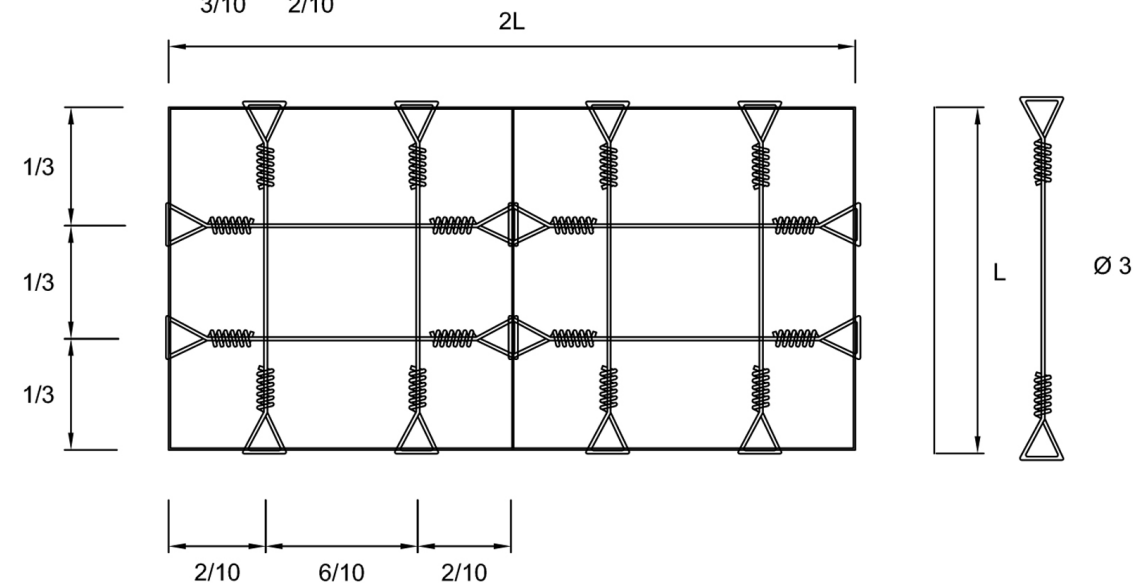
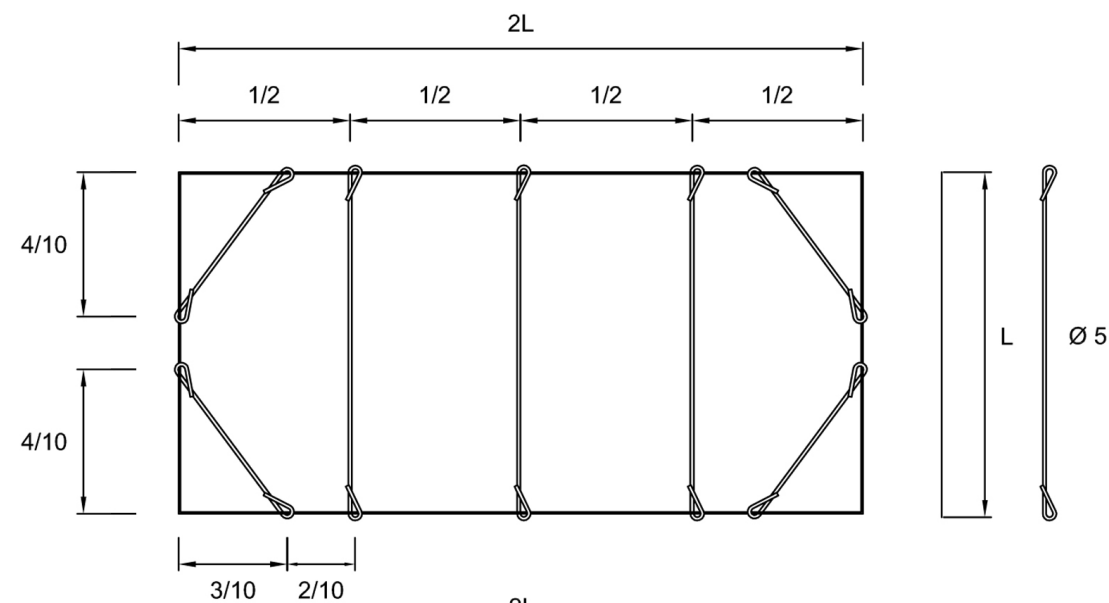
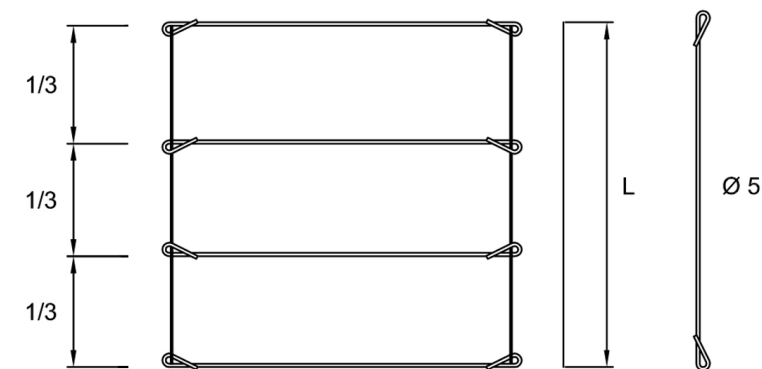
# CREATION OF THE GABIONS STEP 1.3

## TOOLS

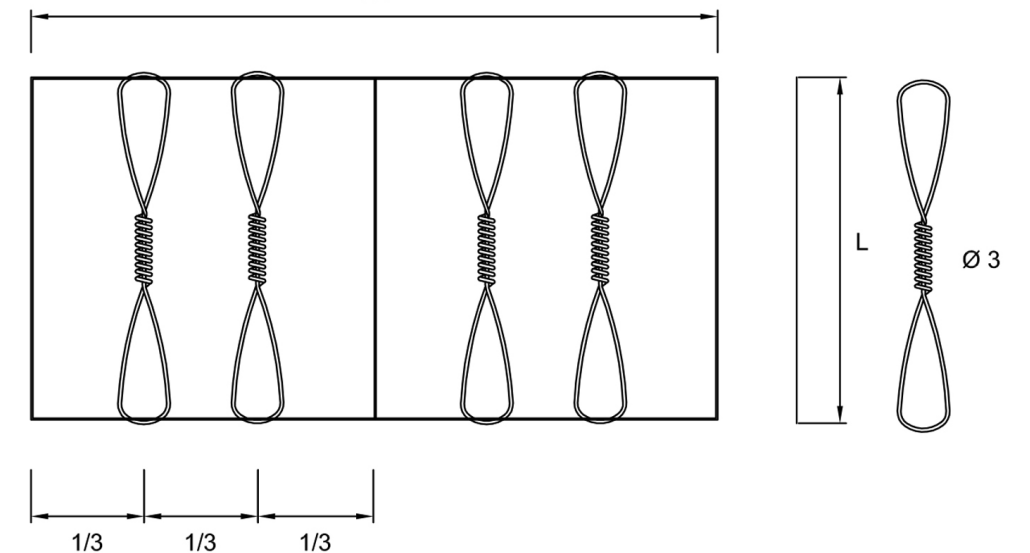
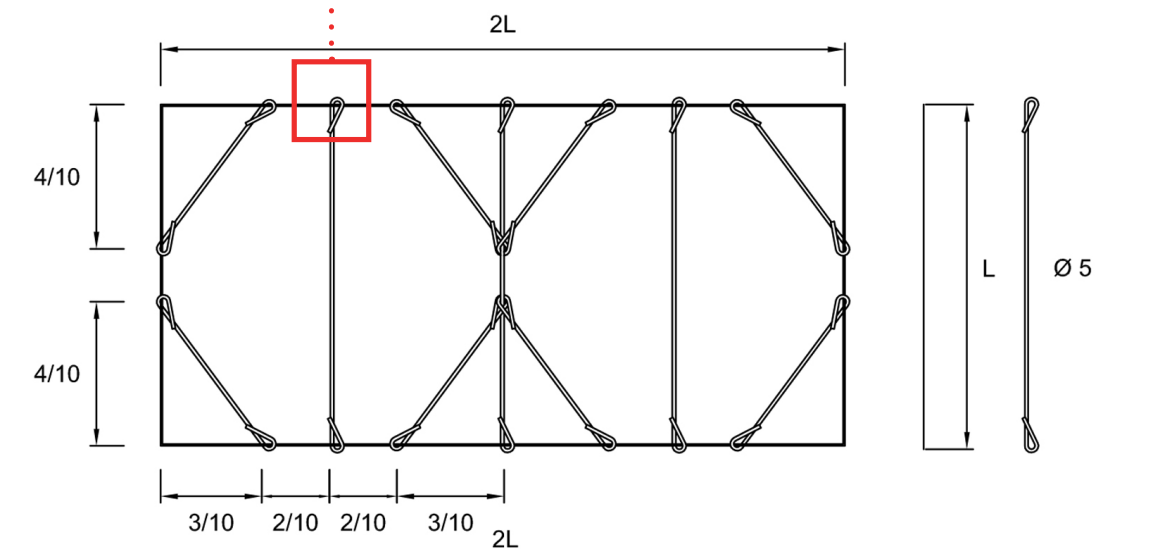
- WIRE



## HORIZONTAL REINFORCEMENT - If needed



Detail of the bend of the wire





# FILLING WITH LOCAL STONES STEP 2

## TOOLS

- GLOVES
- LOCAL STONES



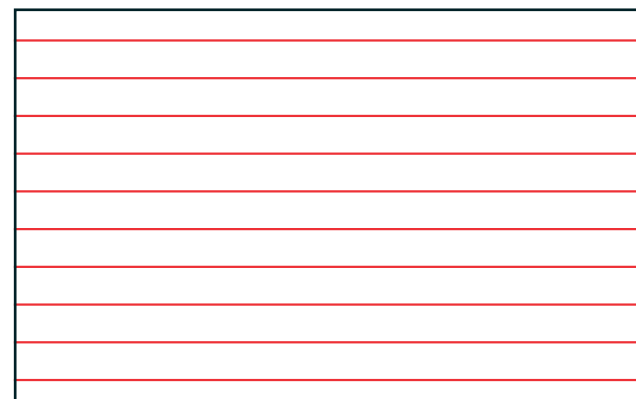
## CHOSING A MOT I F FOR THE STONE WALL

In order to obtain a better aesthetic outcome, we suggest to pay more attention in the **FILLING PHASE**.

1. Choose a **MAIN SCHEME** for the stone wall, deciding the orientation of the stones (horizontal, diagonal, etc.) ;
2. This will require greater accuracy in the placement of the more **EXTERNAL STONES**, while the central filling can be realized more quickly;
3. **OVERLAP OF THE GABIONS**, to reach the required height of the walls.

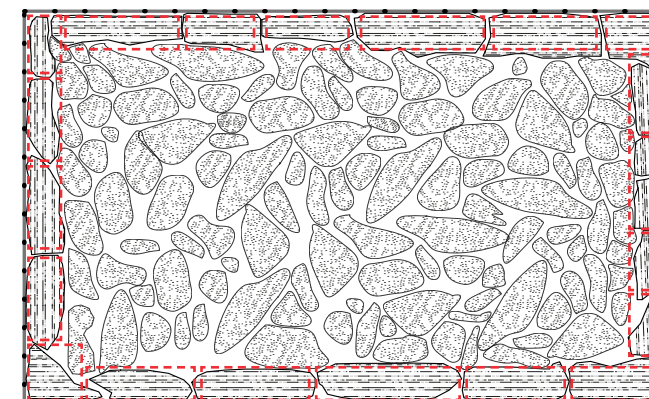


### 1. Horizontal scheme for the facade



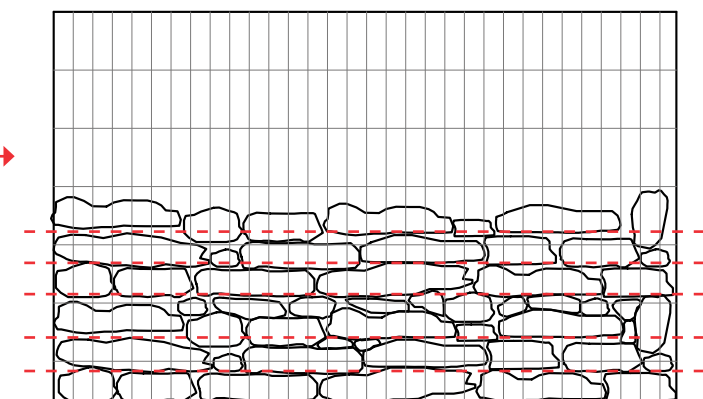
FRONTAL SCHEME of the gabion

### 2. Attention on the perimetral stones

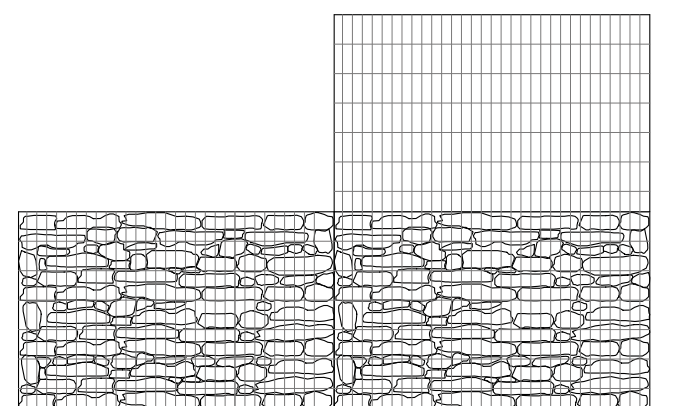
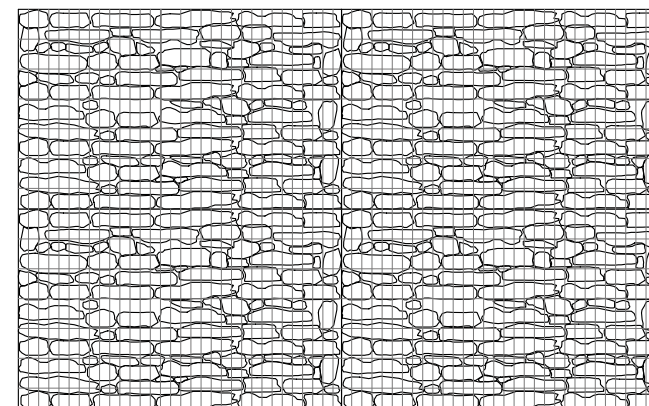
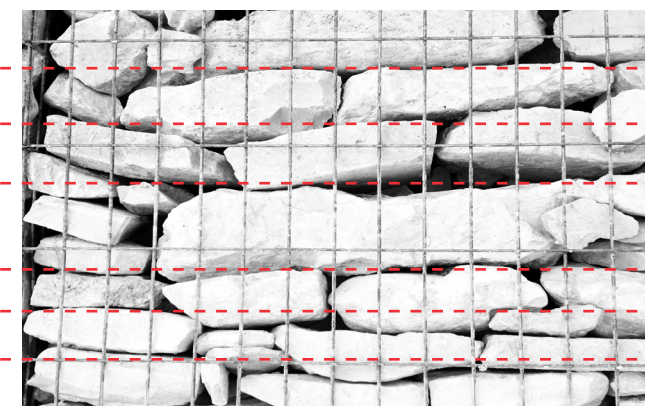


PLAN VIEW of the gabion

### 3. Once the gabion is full, overlap each others



FRONTAL VIEW of the gabion





THE END



Project by

