



Assembly Instructions

DuraWeld Pro R-Basket Gabions

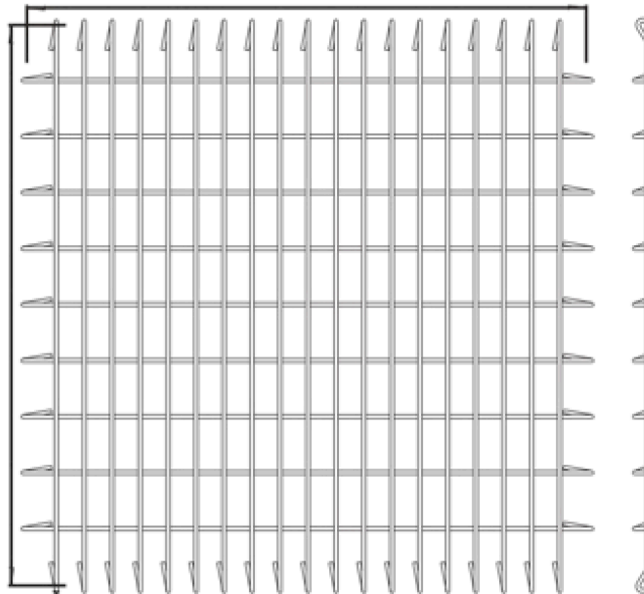
Please read these instructions completely before beginning installation.

General Notes:

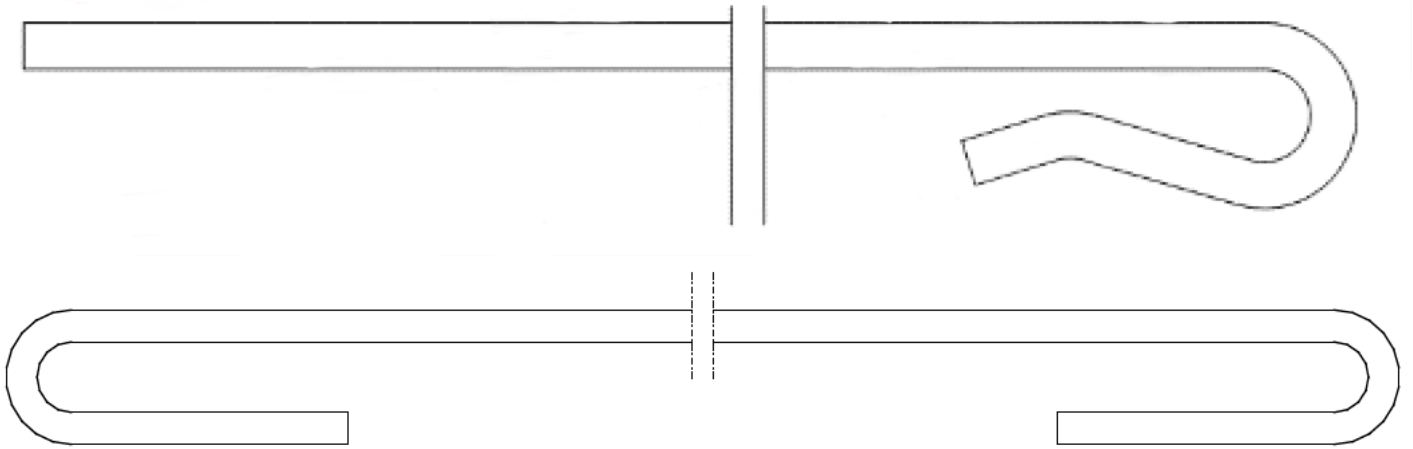
- Exercise safety and caution during installation and be sure to utilize appropriate safety equipment.
- Set up gabions only on a load bearing, level surface.
- Protective equipment such as protective gloves and safety boots should be worn during all work.
- Risks should be assessed and precautions taken.

Installation Steps:

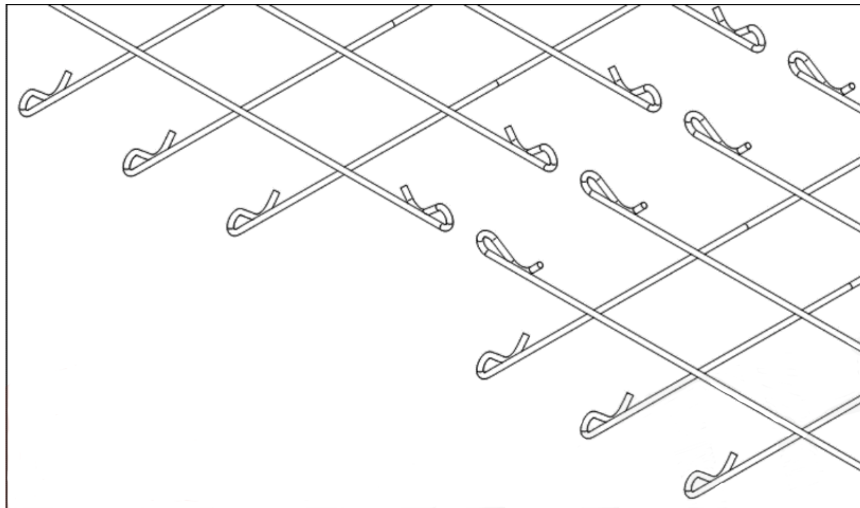
1. Prepare a load bearing, level contact area according to engineer requirements taking into account bearing capacity and angle of wall incline.
2. Components:
 1. Panels: Panel measurements should be confirmed from furthest point at the bend of the eyelet to the corresponding side.



2. Assembly accessories include both locking rods utilized to connect the panels and stay rods for stiffening the face of the basket panels.

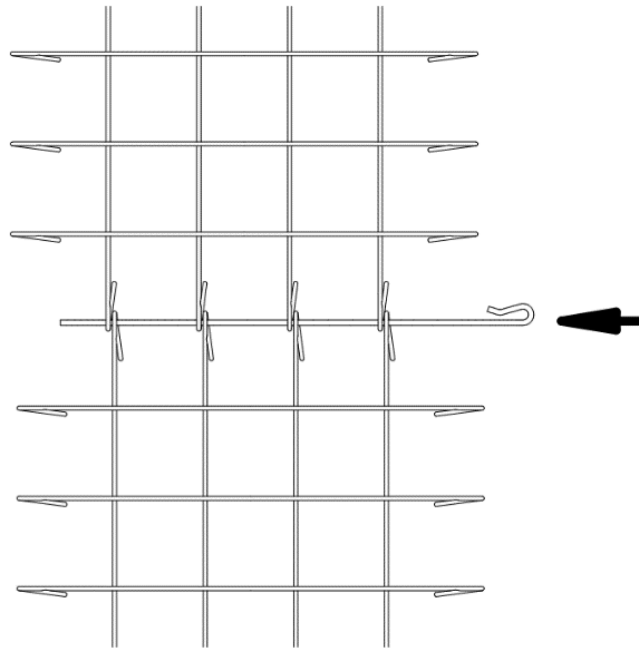


3. Lay down the base and side pieces of mesh lining up the eyelets so that the eyelets will be on the inside of the basket once assembled.

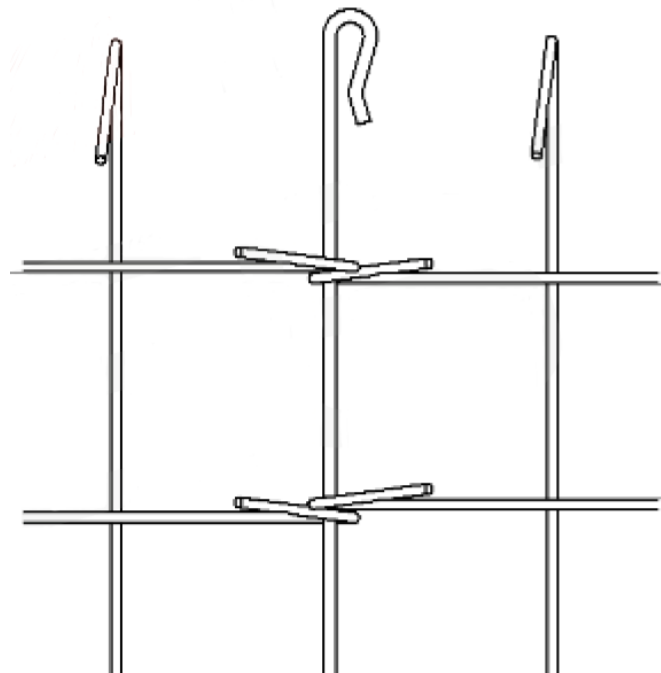


The mesh pieces should be aligned so that the vertical wires will be on the outside of the panels.

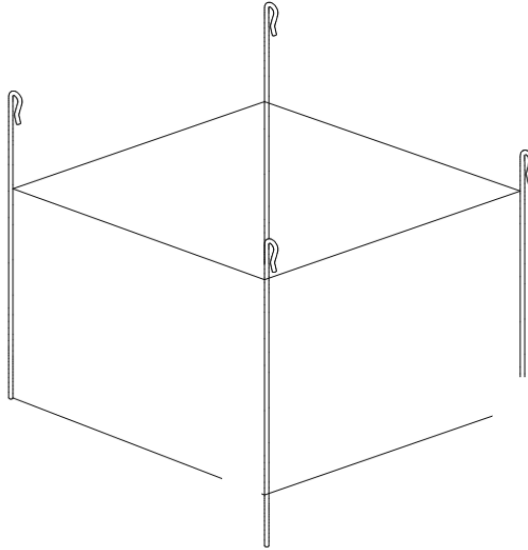
4. Connect the base and side pieces with the appropriate locking rods insuring that the locking rods are always fitted in the same direction for the entire wall section as in left to right.



5. To help secure the gabion mesh, connect one mesh as demonstrated below by gently bending two of the eyelets within one mesh opening.

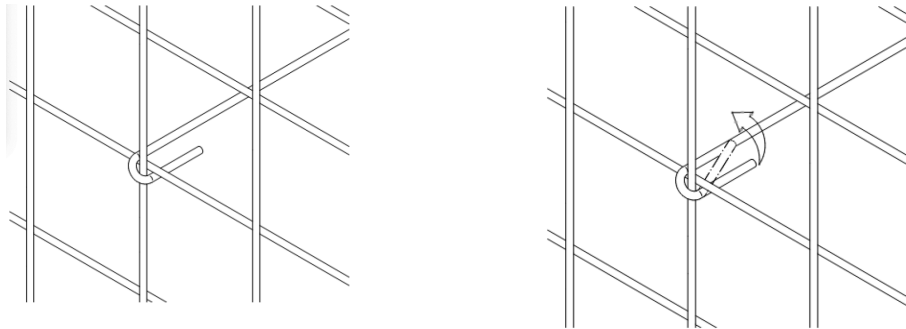


6. Lift up the side mesh pieces as shown and thread in the locking rods from above.

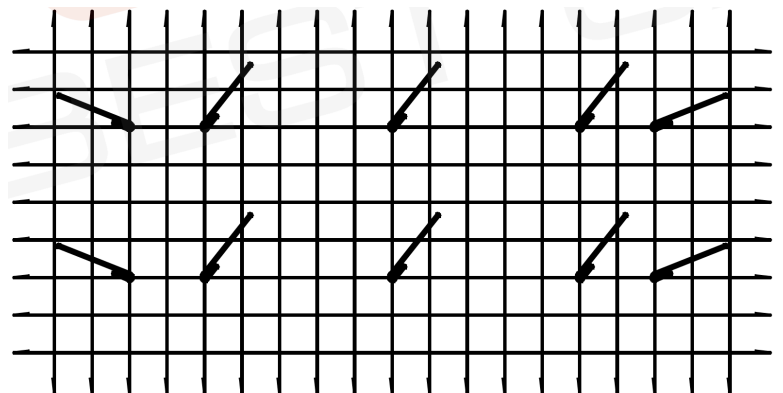
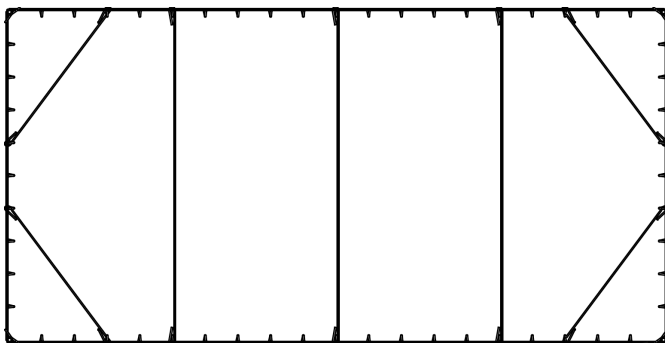


ATTENTION: Before threading the locking rods, make sure all necessary panels are included if constructing wall in a monolithic fashion. (See Step 9 for more detail)

7. Attach stay rods. Rods must be fitted diagonally across a mesh junction. As an option you can bend the stay rods with pliers as shown below.



8. Insure the stay rods are fitted in the correct position based on below drawings using a 2m x 1m x 1m basket.

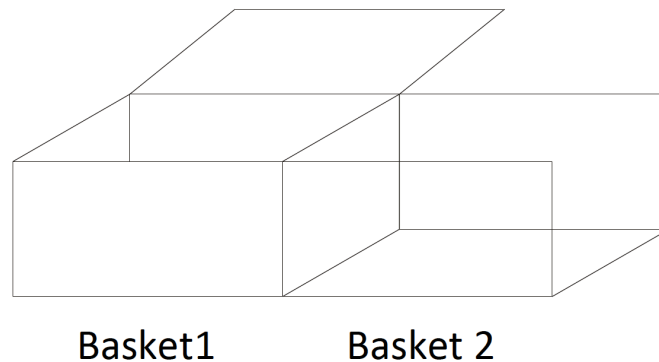


9. Monolithic Construction Method

When utilizing locking rods to connect baskets to one another minimizing additional panels you can follow the below instructions.

Section A includes instructions for horizontal installation while Section B includes instructions when attaching additional layers on top of the base course of gabions.

A: Horizontal Construction



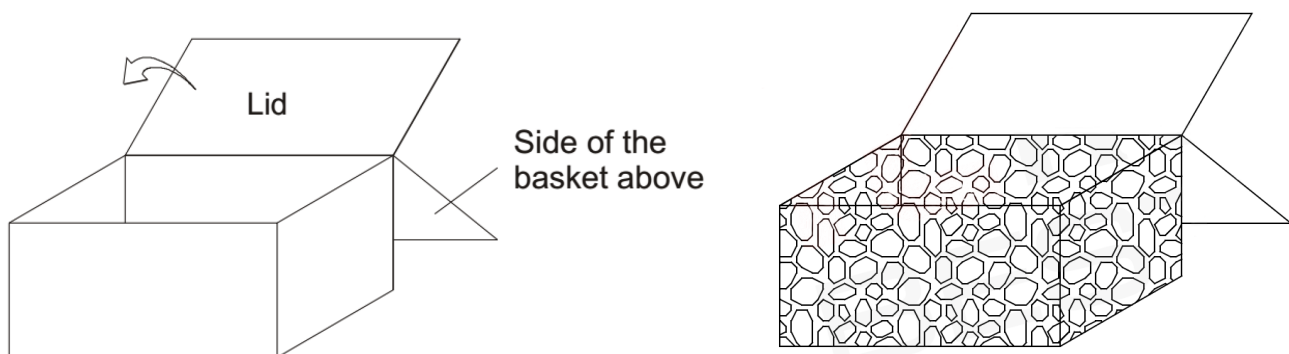
The lid of Basket 1 is attached and open and the front and back sides of Basket 2 are attached. Once they are attached Basket 1 can be filled.

Once Basket 1 is filled you can close the lid and thread the locking rods across the front and on the left side.

If site access allows it you can install the entire row of empty baskets before filling.

B: Vertical Construction

The gabion baskets can be fitted together with the lid and the side of the above gabion attached together with the locking rod as shown below.



Close the lid of bottom gabion and secure with locking rods while at the same time adding the other three side panels as shown below.

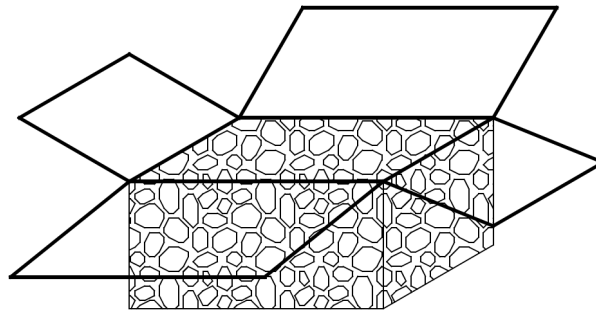
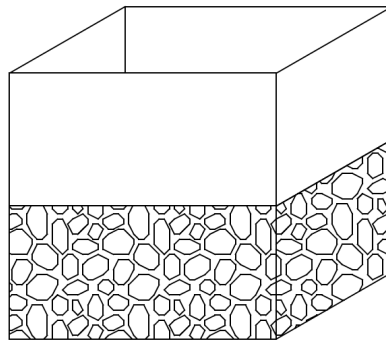


Figure: Lid closed, sides fitted.

Lift the sides into position and connect with the locking rods.



10. Filling the Gabions Baskets

Fill gabions with sufficiently strong frost and weather resistant stone, insuring as few voids as possible.

The size of the fill material at the face of the mesh panels must be larger than the mesh opening. For the rest of the fill material it must be larger than the gaps of the fill material at the faces of the gabion.

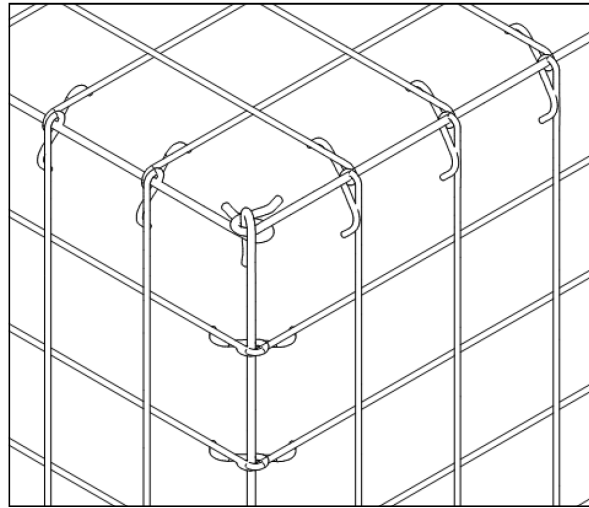
The fill material must be tightly packed without voids including all corners and edges being completely filled.

While filling the baskets make sure the stay rods are not bent and that the baskets do not bulge and make sure that fill material does not have any voids beneath the stay rods (especially at edges and corners) is tightly packed without voids to avoid deforming the stay rods. If the stay rods are bent during the filling process they should be immediately straightened.

Make sure fill material reaches the upper horizontal edges of the gabion and that there are no voids between the fill material and the lid. If there are voids or cavities, the load on the lid will not be transferred to the fill below, putting additional pressure on the basket below leading to deformation and potential structural stability problems.

11. Closing the Lid

Make sure the ends of the locking rods are interconnected as shown. In the below diagram.



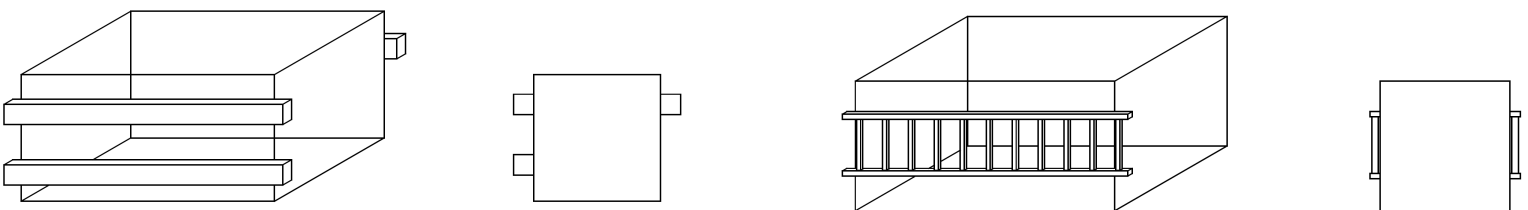
Correctly interlocked locking rods are nearly immovably tight after filling the basket with stone.

12. Leveling Layer

To compensate for settlement of fill material, a layer of smaller stones should be applied to the top of every gabion that will have another gabion placed on top of it.

13. Filling Aids

To help prevent bulging during the filling process, various aids can be used. You can utilize wooden beams or even ladders by binding them to the mesh and then removing after the gabions have been filled. If you use non galvanized tie wire, please make sure it is removed as quickly as possible as it can leave rust marks on the gabions. However, this is only a surface marking and will not damage the corrosion protection of the gabion mesh.



Disclaimer:

Our assembly instructions in word and picture are provided to the best of our knowledge and belief. It does not relieve the user/contractor from the responsibility to examine the supplied products for their suitability of the intended procedures and purpose. Application, use, and installation of the products are beyond our control and are therefore exclusively the responsibility of the user/contractor.

Parts List Based on Gabion Size:

50 cm = 19.7 Inches
 100 cm = 39.4 Inches
 150 cm = 59.1 Inches
 200 cm = 78.7 Inches

DuraWeld Pro R-Baskets

Basket Sizes L x W x H (cm)	Panels (m)							Locking Rods (m)				Stay Rods (m)	
	2x1	2x.5	1.5x1	1.5x.5	1x1	1x.5	.5x.5	LR 2	LR1.5	LR1	LR.5	SR1	SR.5
50x50x50							6				12		2
100x100x100					6					12			8
100x100x50					2	4				8	4		4
100x50x100					2	4				8	4		8
100x50x50						4	2			4	8		4
150x100x100			4		2				4	8		4	8
150x100x50			2	2		2			4	4	4	2	4
150x50x100			2	2		2			4	4	4		12
150x50x50				4			2		4		8		6
200x100x100	4				2			4		8		6	8
200x100x50	2	2				2		4		4	4	3	4
200x50x100	2	2				2		4		4	4		14
200x50x50		4					2	4			8		6