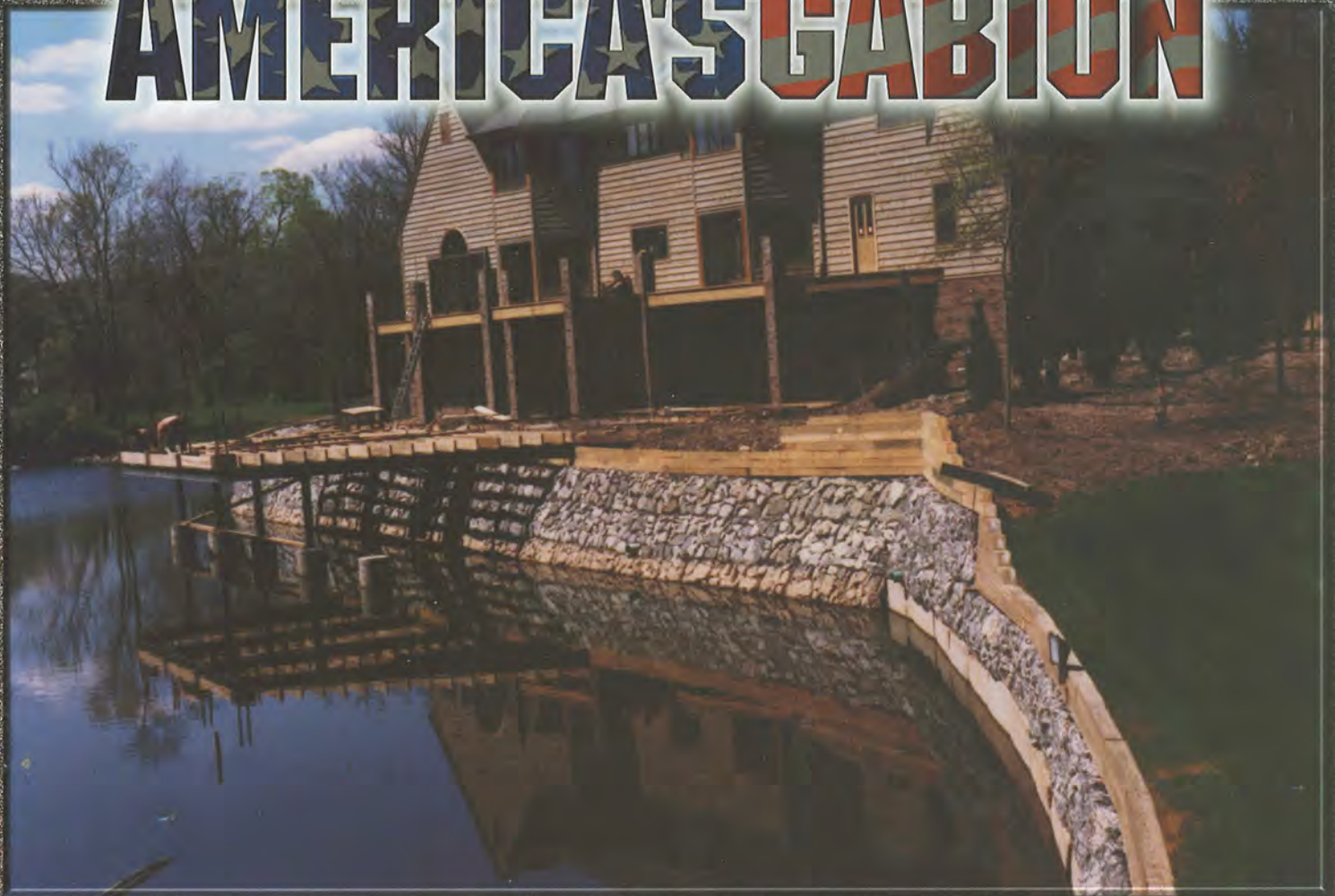
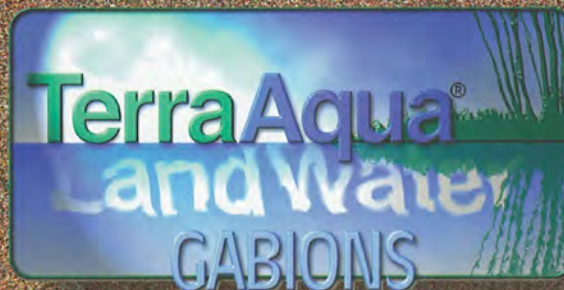


AMERICA'S GABION



- PERMEABILITY
- DURABILITY
- FLEXIBILITY
- ECONOMY



P.O. BOX 7546, RENO, NEVADA 89510
775-828-1390 • FAX: 775-828-1394 • 800-736-9089

PACKING & ASSEMBLY

PACKING

For ease of handling and shipping, the gabions are supplied folded flat.

A color stripe applied on the side of each folded gabion identifies the size.

FIGURE 1

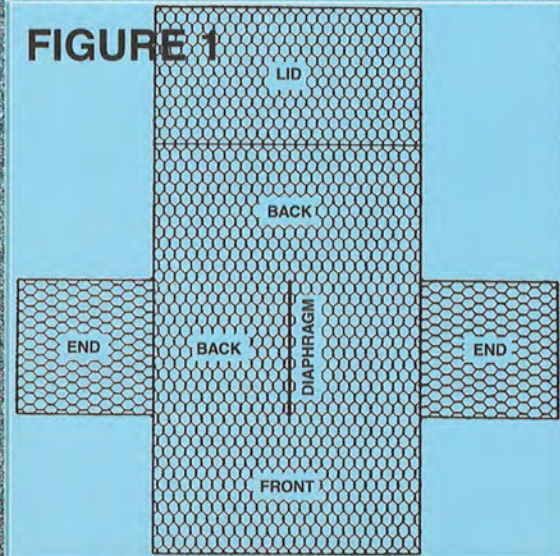


FIGURE 2

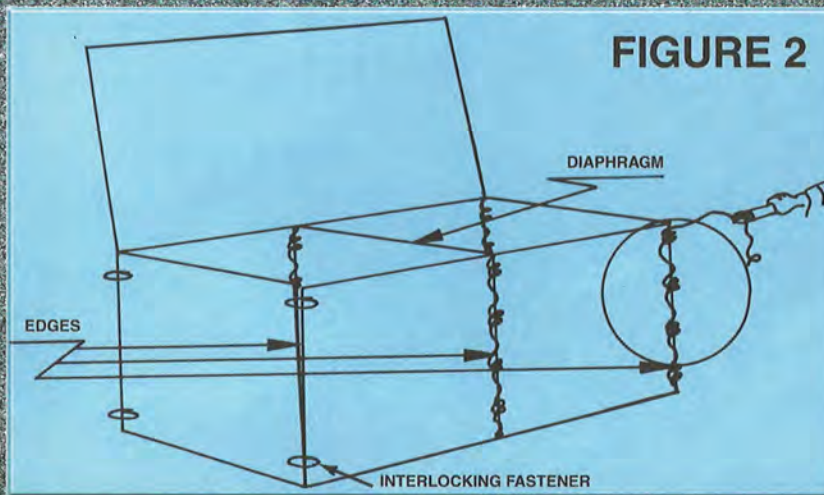
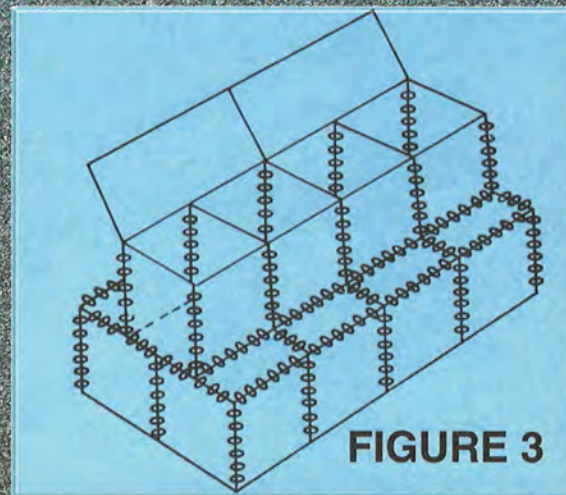


FIGURE 3



ASSEMBLY

1 Open the bundle and unfold each unit.
(See Figure 1)

2 Lift the sides, the ends and the diaphragms of each unit into vertical position. (See Figure 2)

3 Attach the edges of four corners together with locking wire fastener or lacing wire with the diaphragms to the front and back of the gabion. (See Figures 2 and 4)

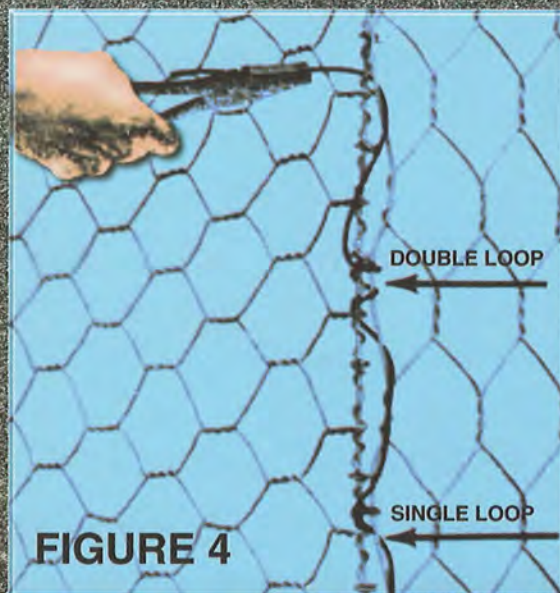


FIGURE 4

INSTALLATION

INSTALLATION

1 Level the base to the elevation required.

2 Place a line of empty gabions into position according to the contract drawings.

3 Using an approved fastener or lacing wire, attach each unit to the adjoining one along the vertical reinforcement edges (corners) and the top. (Figures 3 and 5)

4 The approved fastener should be evenly spaced along seams at recommended intervals. The lacing wire is then tightly looped around every other mesh opening along the seams in such a manner that single and double loops are alternated. (See Figure 4)

5 To achieve better alignment and finish in retaining walls, after a line of gabions has been wired together, minimum stretching is recommended.

6 Empty gabion sections placed on top of completed sections must be fastened or wired to filled section at front and back. (See Figures 3 and 5)

When the upper section only partially overlaps the lower section, the attachment will be done at the point where the front edge of the upper section meets the lower section, and where the back edge of the lower section meets the base of the upper section. (See Figure 6)

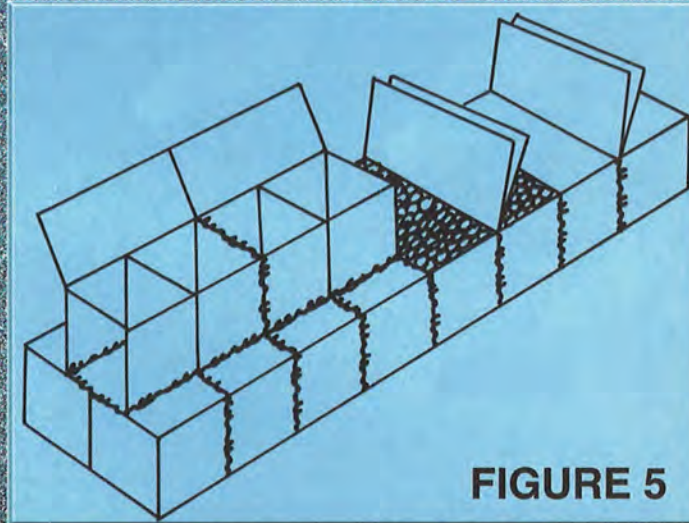


FIGURE 5

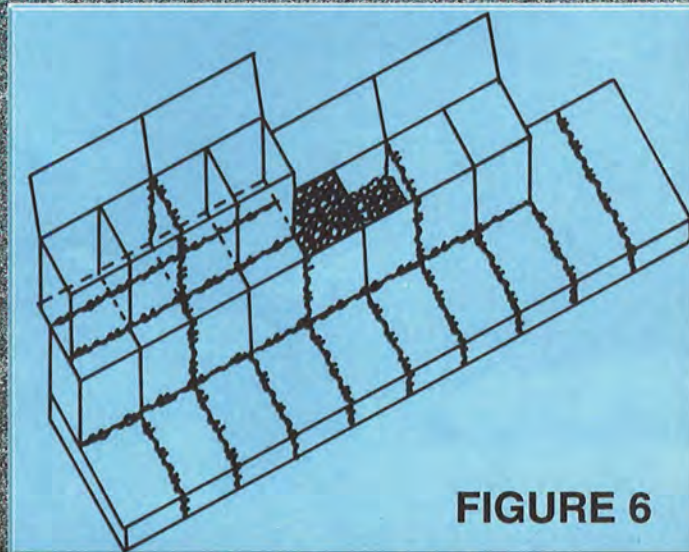
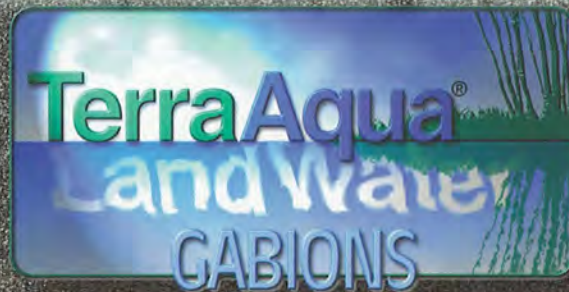


FIGURE 6

AMERICA'S GABION



P.O. BOX 7546, RENO, NEVADA 89510
775-828-1390 - FAX: 775-828-1394 - 800-736-9089

FILLING & CONNECTING WIRES

FILLING

The material used to fill the gabions must be 4" to 8" durable stone.

The filling operation can be carried out with any type of machinery. Every effort should be made to keep voids and bulges in gabions to a minimum in order to ensure proper alignment and neat, compact, square appearance. Also, on the exposed area of retaining structures, the stone should be carefully placed.

CONNECTING WIRES

During the filling operation, connection wires should be inserted in the following manner:

Each gabion cell of the 36" high gabion is to be filled to a depth of one third (one foot) after which Internal Connecting Wires or Corner TACT Ties (See Figure 7 for TACT TIES and Figure 8 for Front Face to Back Face Connecting Wires) are placed inside each gabion cell. This operation is to be repeated when the gabion is two thirds (two foot elevation) full. In-line gabions require Internal Connecting Wires or Corner TACT Ties on the exposed gabion face to ensure proper vertical alignment. (See Figure 9)

For thinner gabions, connection wires are not necessary unless the 18" are used to build exposed vertical surfaces and in this case, two wires, one in each direction at 9" from the base, at each end unit. Interior compartments follow the procedure above. (See 3)

After the filling operation has been completed the lid is then folded to meet the front edge and tightly bound to the rest of the gabion with an appropriate interlocking fastener or lacing wire along all edges and top of diaphragms in the same manner used to assemble gabions.

1

2

3

4

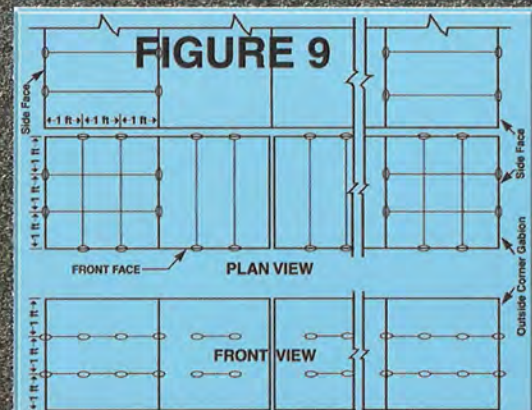
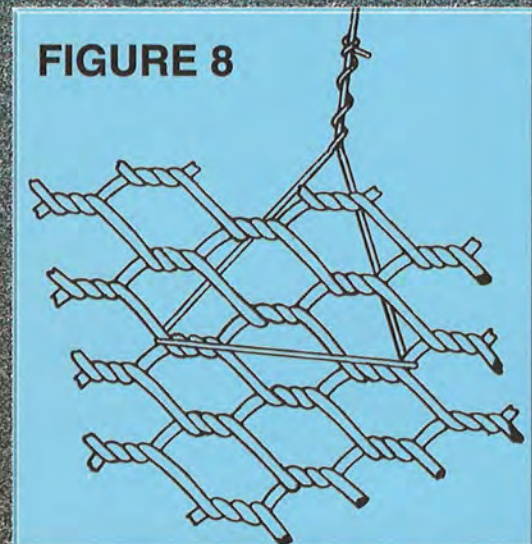
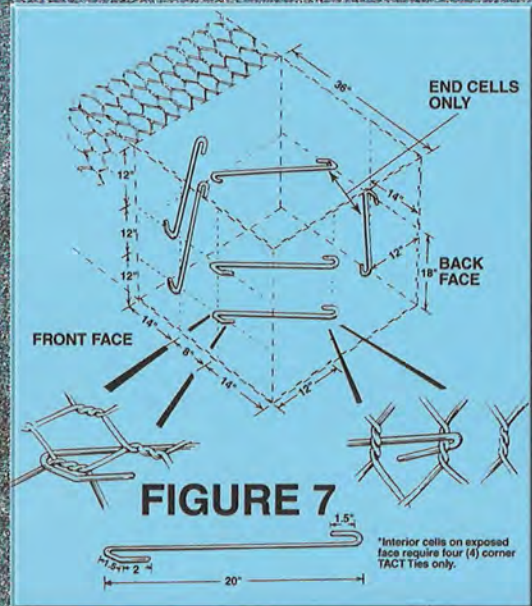


FIGURE 9: Typical internal connecting wires for 3 foot-high gabions on front face and side faces.

NOTES:
No connecting wires or Tact Ties are required for interior cells and the back face.

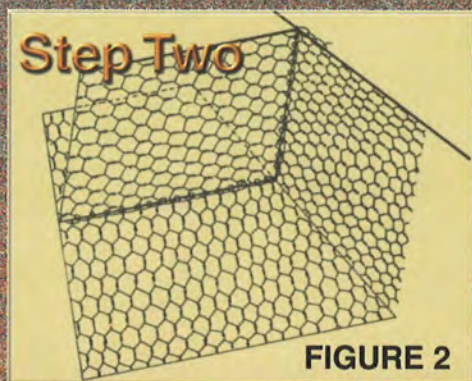
RENO MATTRESSES

Simple Steps to Mattress Construction

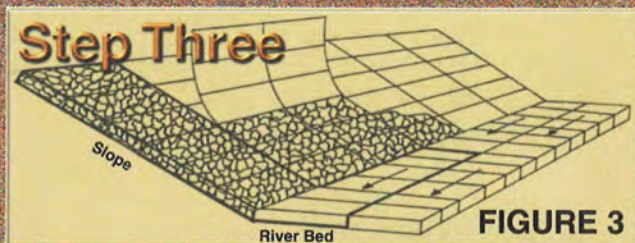
For easy handling and shipping, Mattresses are supplied folded flat in bundles of 25. Lids are packaged in separate bundles or in rolls for larger units of Mattresses.



Individual Mattress is first unfolded on flat, hard ground and stamped to remove all kinks. The two long sides and both end panels are then lifted upright and secured in position by tying the selvedge wires together (see fig. 1).

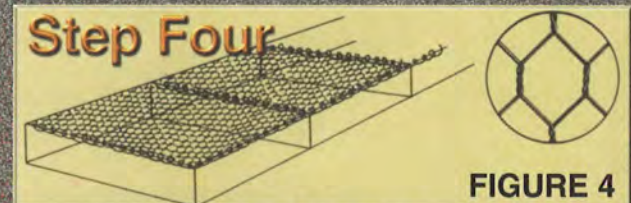


The vertical edges of all internal diaphragms are attached to the sides and laced with facing wire or approved interlocking wire fastener (see fig. 2).



The assembled Mattress is then aligned in the required position and tied or fastened to adjacent mattress along the whole length of selvedge wire. Mattress units should be placed in proper position so that movement of rockfill inside the cage - due to gravity or flowing current - is minimal. Thus, on slopes, Mattresses should be placed with internal diaphragms at right angles to the direction of slope.

On river beds, position Mattresses with the internal diaphragms at right angles to the direction of flow (see fig. 3).

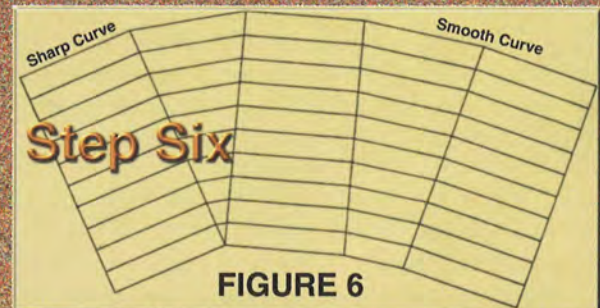


Next, the stone is placed into the compartments (cells). If it's a slope, start from the bottom. One or more Mattresses can be filled at the same time.

Sequence the installation by keeping the stone filling crew well ahead of the lid placement crew. Lids or top panels must be securely tied or fastened to side-tops and end panels and also to the top of the inner partitions (see fig. 4).



If the slope is steeper than 1:1.5, stakes should be driven through the Mattresses into the ground at 1m spacing (2 pegs per 2 m wide mattress) (see fig. 5).



The Mattresses may be either telescoped or squashed and tied at required shapes when necessary, e.g. when Mattresses are laid on a radius. For a sharp curve, it may be necessary to cut the Mattress diagonally into triangular section and tie the open side.

SPECIFICATIONS

STANDARD SIZES

LETTER CODE OF SIZE	LENGTH	WIDTH	HEIGHT	NO. OF DIAPHRAGMS	CAPACITY CUBIC YARDS	PAINTED COLOR CODE USED ON EACH UNIT TO DISTINGUISH SIZE
A	6'	3'	3'	1	2.0	BLUE
B	9'	3'	3'	2	3.0	WHITE
C	12'	3'	3'	3	4.0	BLACK
D	6'	3'	1'6"	1	1.0	RED
E	9'	3'	1'6"	2	1.5	GREEN
F	12'	3'	1'6"	3	2.0	YELLOW
G	6'	3'	1'	1	0.66	BLUE-RED
H	9'	3'	1'	2	1.0	BLUE-YELLOW
I	12'	3'	1'	3	1.33	BLUE-GREEN
Q	9'	6'	6"	2	1	WHITE-YELLOW
R	12'	6'	6"	3	1.33	WHITE-GREEN
T	9'	6'	9"	2	1.5	RED-YELLOW
U	12'	6'	9"	3	2	RED-GREEN

METRIC SIZES

LETTER CODE OF SIZE	LENGTH-WIDTH HEIGHT IN METERS	APPROXIMATE EQUIVALENTS IN FEET	NO. OF DIAPHRAGMS	CAPACITY CUBIC METERS	CUBIC YARDS	PAINTED COLOR CODE USED ON EACH UNIT TO DISTINGUISH SIZE
A	2x1x1	6'6"x3'3"x3'3"	1	2	2.616	BLUE
B	3x1x1	9'9"x3'3"x3'3"	2	3	3.924	WHITE
C	4x1x1	13'1"x3'3"x3'3"	3	4	5.232	BLACK
D	2x1x.5	6'6"x3'3"x1'8"	1	1	1.308	RED
E	3x1x.5	9'9"x3'3"x1'8"	2	1.5	1.962	GREEN
F	4x1x.5	13'1"x3'3"x1'8"	3	2	2.616	YELLOW
G	2x1x.3	6'6"x3'3"x1'	1	0.6	0.785	BLUE-RED
H	3x1x.3	9'9"x3'3"x1'	2	0.9	1.177	BLUE-YELLOW
I	4x1x.3	13'1"x3'3"x1'	3	1.2	1.570	BLUE-GREEN
Q	3x2x.15	9'9"x6'6"x6"	2	0.9	1.17	WHITE-YELLOW
R	4x2x.15	13'1"x6'6"x6"	3	1.2	1.57	WHITE-GREEN
T	3x2x.23	9'9"x6'6"x9"	2	1.38	1.76	RED-YELLOW
U	4x2x.23	13'1"x6'6"x9"	3	1.84	2.40	RED-GREEN

GABION

Sizes & Mesh Opening:
Wire For Netting:
Wire For Selvedges & Corners:
Wire For Binding:
Zinc Coating:
Tolerance:

GALVANIZED

Hexagonal, approx. 3 1/4"x4 1/2"
0.118" diam. (3.0mm)
0.150" (3.8mm)
0.087" (2.2mm)
.85 ounces per square foot
+ or -.005 (.0127cm)

PVC TYPE

Same as for River Type
Core 0.106", finish .146" (2.7mm/3.7mm)
Core 0.133", finish .173" (3.4mm/4.4mm)
Core 0.087", finish .127" (2.2mm/3.2mm)
.85 ounces per square foot
+ or -.005 (.0127cm)

MATTRESS

Sizes & Mesh Opening:
Wire For Netting:
Wire For Selvedges & Corners:
Wire For Binding:
Zinc Coating:
Tolerance:

GALVANIZED

Hexagonal, approx. 2 1/2"x3 1/4"
0.087" (2.2mm)
0.106" (2.7mm)
0.087" (2.2mm)
.70 ounces per square foot
+ or -.005 (.0127cm)

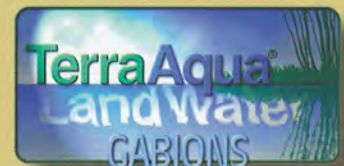
PVC TYPE

Same as for River Type
Core 0.087", finish .127" (2.2mm/3.2mm)
Core 0.106", finish .146" (2.7mm/3.7mm)
Core 0.087", finish .127" (2.2mm/3.2mm)
.70 ounces per square foot
+ or -.005 (.0127cm)

Wire conforms to Federal Specifications QQ-W-461 H, Finish 5, Class 3 and ASTM A-641.

Distributed by:

Factory:
1415 N. 32nd Street
Ft. Smith, AR 72904
501-785-5344
Fax: 501-785-0633



P.O. BOX 7546, RENO, NEVADA 89510
775-828-1390 - FAX: 775-828-1394 - 800-736-9089