



Walcoom Corporation



# GABION BOX

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## Gabion Box with Good Structure for Slope Protection and Retaining Wall

**Gabion box** is a strong-structure product with hexagonal or rectangular holes, which can be divided into woven gabion box and welded gabion box according to different fabrics. Gabion box is also called gabion baskets, which can be divided into galvanized gabion box, Galfan coated gabion box, stainless steel gabion box and PVC coated gabion box because of different materials. Gabion box has many characteristics, such as robust and flexible structure, excellent permeability, good corrosion and rust-resistance, high tensile strength and good durability. It can be used for protective applications and decorative applications, such as rockfall barrier, slope protection, retaining wall, flood controlling, military defence, gabion planter and landscape constructions.

### Feature:

- Quality geotextile lining.
- Dense filling material.
- Robust and flexible structure.
- Excellent permeability.
- Good corrosion and rust resistance.
- High tensile strength and shear resistance.
- Sound insulation is good.
- Low cost and environmental friendly.
- High versatility and aesthetic design.
- Easy assembly.
- Convenient usage.
- Good durability and long lifespan.

### Specification:

- **Material:** high quality low carbon steel.
- **Wire diameter:** 1 mm – 5 mm. According to custom sizes.
- **Fabric type:** welded gabion box and woven gabion box.
- **Mesh structure (woven):** double twisted structure and triple twisted structure.
- **Holes shape:** hexagonal shape and rectangular shape.
- **Surface treatment:** hot-galvanized, electro galvanized, Galfan coated and PVC coated.
- **Fittings:** spiral joints, hog rings, U clips and gabion stiffeners.
- **Box types:** standard bastion barrier and recoverable bastion barrier.
- **Geotextile color:** white, gray, green, sand and other colors.
- **Filling material:** sands or stones.



# GABION BOX



Welded Gabion Box



Woven Gabion Box



Standard Bastion Barrier



Recoverable  
Bastion Barrier

Table 1: Specifications of Gabion Box

Item	Length (m)	Width (m)	Height (m)	Number of cells
GBX-01	2	1	1 m; 1.5 m	2
GBX-02	3	1		3
GBX-03	3	2		6
GBX-04	4	1		4
GBX-05	4	2		8
GBX-06	5	1		5
GBX-07	5	2		10
GBX-08	6	1		6
GBX-09	6	2		12

Table 2: Bastion Barrier Specification

Code	Height	Width	Length	Cells	Styles
GBW-1	2'	2'	4'	2	Standard/Recoverable
GBW-2	2'	2'	10'	5	Standard/Recoverable
GBW-3	3' 3"	2' 6"	30'	9	Standard/Recoverable
GBW-4	3' 3"	3' 3"	32' 9"	10	Standard/Recoverable
GBW-5	3' 3"	5'	32' 9"	6	Standard/Recoverable
GBW-6	4'	1'	4'	2	Standard/Recoverable
GBW-7	4' 6"	3' 6"	32' 9"	9	Standard/Recoverable
GBW-8	4' 6"	4'	32' 9"	9	Standard/Recoverable
GBW-9	5' 6"	2'	10'	5	Standard/Recoverable
GBW-10	7'	3' 6"	108'	30	Standard/Recoverable
GBW-11	7' 3"	5'	100'	20	Standard/Recoverable
GBW-12	7' 3"	7'	91'	15	Standard/Recoverable
GBW-13	9'	3' 6"	10' 5"	6	Standard

**Table 3: Gabion mattress (hexagonal double twist type)**

Code	Length	Width	Height	Opening size
GMS-1	3 m	2 m	0.15 m, 1.2 m, 0.25 m	5 cm × 7 cm
GMS-2	4 m	2 m	0.15 m, 1.2 m, 0.25 m	5 cm × 7 cm
GMS-3	5 m	2 m	0.15 m, 1.2 m, 0.25 m	5 cm × 7 cm
GMS-4	6 m	2 m	0.15 m, 1.2 m, 0.25 m	5 cm × 7 cm
GMS-5	3 m	2 m	0.17 m, 0.23 m, 0.3 m	6 cm × 8 cm, 8 cm × 10 cm
GMS-6	4 m	2 m	0.17 m, 0.23 m, 0.3 m	6 cm × 8 cm, 8 cm × 10 cm
GMS-7	5 m	2 m	0.17 m, 0.23 m, 0.3 m	6 cm × 8 cm, 8 cm × 10 cm
GMS-8	6 m	2 m	0.17 m, 0.23 m, 0.3 m	6 cm × 8 cm, 8 cm × 10 cm

**Table 4: gabion mattress (welded type)**



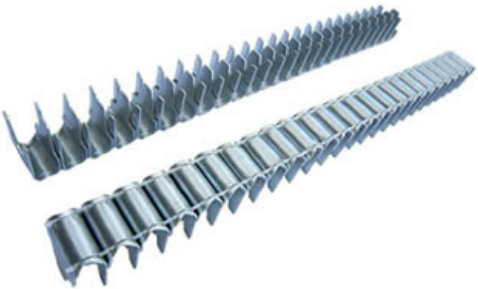
Code	Length	Width	Height	Cells
GMA-1	12'	6'	6"	2
GMA-2	9'	6'	6"	3
GMA-3	9'	6'	9"	3
GMA-4	12'	6'	9"	4
GMA-5	9'	6'	12"	3
GMA-6	12'	6'	12"	4

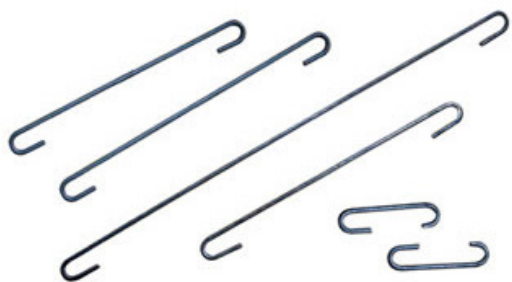
**Table 5: 3" × 3" Welded Gabion Baskets Specification**

Code	Height	Width	Length
WGB-1	1'	3'	6'
WGB-2	1'	3'	9'
WGB-3	1'	3'	12'
WGB-4	1'	6'	6'
WGB-5	1'	6'	9'
WGB-6	1'	6'	12'
WGB-7	1' 6"	3'	6'
WGB-8	1' 6"	3'	9'
WGB-9	1' 6"	3'	12'
WGB-10	1' 6"	6'	6'
WGB-11	1' 6"	6'	9'
WGB-12	1' 6"	6'	12'
WGB-13	3'	3'	3'
WGB-14	3'	3'	3' 6"
WGB-15	3'	3'	6'
WGB-16	3'	3'	9'
WGB-17	3'	3'	12'
WGB-18	3'	4' 6"	6'
WGB-19	3'	4' 6"	9'
WGB-20	3'	4' 6"	12'
WGB-21	3'	6'	6'
WGB-22	3'	6'	9'
WGB-23	3'	6'	12'

**Table 6: Woven Gabion Basket Specification**

Code	Height	Width	Length
WOGB-1	1'	3' 3"	6' 6"
WOGB-2	1'	3' 3"	9' 9"
WOGB-3	1'	3' 3"	13' 1"
WOGB-4	1' 6"	3' 3"	6' 6"
WOGB-5	1' 6"	3' 3"	9' 9"
WOGB-6	1' 6"	3' 3"	13' 1"
WOGB-7	1' 6"	6' 6"	19' 6"
WOGB-8	3' 3"	3' 3"	6' 6"
WOGB-9	3' 3"	3' 3"	9' 9"
WOGB-10	3' 3"	3' 3"	13' 1"

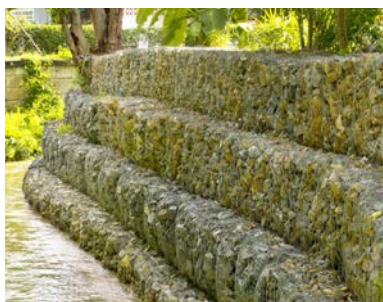
Pattern	Description
	<ul style="list-style-type: none"> <li>● <b>Name:</b> spiral joints.</li> <li>● <b>Feature:</b> universal, strong, easy assemble and secure.</li> <li>● <b>Material:</b> quality steel wire or stainless steel wire.</li> <li>● <b>Wire diameter (mm):</b> 2.2, 3.0, 3.8, 4.0 and 4.5.</li> <li>● <b>Pitch (mm):</b> 20, 25, 50, 75 and 100.</li> <li>● <b>Spiral inner diameter (mm):</b> 15, 20, 25 or custom others.</li> <li>● <b>Length (mm):</b> 300, 500, 1000 or any custom length.</li> <li>● <b>Anti-rust treatment:</b> galvanized, zinc-aluminum plated or PVC coated.</li> </ul>
	<ul style="list-style-type: none"> <li>● <b>Name:</b> hog rings (C rings).</li> <li>● <b>Feature:</b> cost saving and easy to assemble.</li> <li>● <b>Material:</b> high quality steel complying with AISI 304 or stainless steel wire.</li> <li>● <b>Tensile strength:</b> 1700 N/mm<sup>2</sup> to 2000 N/mm<sup>2</sup>.</li> <li>● <b>Wire diameter:</b> 3 mm.</li> <li>● <b>Length:</b> 45 mm.</li> <li>● <b>Anti-rust treatment:</b> galvanized or zinc - 5% aluminum metallic plated.</li> <li>● <b>Package:</b> in boxes.</li> </ul>
	<ul style="list-style-type: none"> <li>● <b>Name:</b> U clips</li> <li>● <b>Feature:</b> used every 150–200 mm around the cage.</li> <li>● <b>Material:</b> high quality stainless steel.</li> <li>● <b>Width:</b> 8.5 mm.</li> <li>● <b>Length:</b> 18.5 mm.</li> <li>● <b>Height:</b> 17.5 mm.</li> <li>● <b>Strip:</b> each strip contains 25 clips.</li> </ul>



- **Name:** gabion stiffeners (gabion spacer).
- **Feature:** placed in every corner of gabion cages.
- **Material:** quality steel.
- **Wire diameter:** 4 mm.
- **Length:** any length is available.
- **Anti-rust treatment:** Zinc - 5% aluminum plated.
- **Package:** in singles or packed in boxes.

## Application

- River bank protection.
- Slope protection.
- Weirs defending flood.
- Bastion barrier.
- Defend storm.
- High way and road noise barrier.
- Retaining wall.
- Bridge protection.
- Military defense.
- Defend gunfire.
- Landscape construction.



River bank protection



Retaining wall



Slope protection



Gabion dams protection



Military defence



Landscape protection



# GABION BOX

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