

CUBIROC™

REVOLUTIONARY PRE-FILLED GABIONS

Embracing off-site construction, **Cubiroc™** represents a new revolution in Maccaferri's gabions. Pre-filled and delivered to the project site, they enable the rapid construction of gabion structures, saving time, effort, waste and disruption.

Cubiroc™ maintains the usual benefits of gabion structures; robustness, long design life, free draining and able to accommodate differential settlements.

Maccaferri gabions have achieved an **Environmental Product Declaration** which provides transparent, reliable and comparable life cycle environmental data.

Cubiroc™ pre-filled gabions are ideal for use in:

- Railway construction works with limited track possession times
- Highway and motorway works
- River training and bank protection
- Dam and reservoir repairs
- Rockfall and debris flow protection bunds
- Noise barriers / Acoustic bunds
- Flood damage repairs
- Working platforms
- Temporary bridge support



Ease of transportation and handling



Cubiroc™ retaining wall



Cubiroc™ wall

CUBIROC™ REVOLUTIONARY PRE-FILLED GABIONS

EPD® Environmental Product Declaration (EPD) in accordance with ISO 14025 and EN 15804+A1
 EPD reg no: S-P-01465
 www.environdec.com

Advantages of **Cubiroc™**

- M** On-site construction time is significantly reduced
- M** Manual labour on the site is minimised
- M** Mechanical filling and compaction requires only minimal effort
- M** Trusted gabion construction quality
- M** Minimal face bulging
- M** Can be used in locations that are inaccessible/unsafe for operatives

In comparison with traditional gabions which are filled in-situ on the project site, **Cubiroc™** units are assembled and filled remote from the site using specific mechanical frames and vibrating tables.

Once filled, they can be stored or transported to the job site for immediate lifting into the works.

Cubiroc™ gabions are made from a unique, heavy and robust grade of hexagonal double twist steel wire mesh, manufactured for this application, to resist deformation.



Cubiroc™ schematic

This ensures that the gabion boxes keep their rectangular shape during lifting, transportation and placement.

The mechanical properties of **Cubiroc™** gabion mesh exceed the requirements of EN 10223-3. To provide reliable long-term performance, they are available with either GalMac® galvanising (Class A in accordance with EN 10244-2) or GalMac® with an additional tough polymeric coating for a longer design life in aggressive conditions.

The units are equipped with lifting straps to enable easy movement and transportation of the filled unit. Bracing wires are installed within the completed filled unit.

Gabion CAD models are BBA assured **BIM objects** available from Bimstore.

Size (m)	Length (m)	Width (m)	Height (m)	No. of cells	Nominal weight in air (t)*
1x1x1	1	1	1	1	2
2x1x1	2	1	1	2	4
2x1x0.5	2	1	0.5	2	2

*The actual weight may vary depending on the unit weight of the rock fill used



Empty Cubiroc™ baskets ready for filling - note lifting straps

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