

INVITATION TO BID NO. 2026B048

Issue Date	Time and Date of Opening	Buyer	Phone Number
06/04/2026	9:30 A.M. Alaska Time, June 18, 2026	Adam Garrigus	907-343-4590

ITB No. 2026B048 – Furnish Gabions to the Municipality of Anchorage, Eagle River Street Maintenance Department.

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Specifications	Consisting of	7 Pages
Responsible Bidder Questionnaire	Consisting of	3 Pages

To be considered for award bids **will**:

- Be in a sealed envelope or submitted online through BidExpress in accordance with Special Provisions, Paragraph 7; and,
- Be received by the Purchasing Office, 632 W. 6th Avenue, Suite 520, Anchorage, AK 99501, **prior** to the time and date set for the bid opening (time and date of bid receipt will be determined by the time/date stamp in the Purchasing Department);
- Be time and date stamped;
- Acknowledge all ITB addendums; if any (failure to acknowledge Addenda may result in bid being considered non-responsive.)
- **Faxed or emailed bids will NOT be accepted.**

Bids not in compliance with the above requirements may be declared non-responsive and held unopened by the Purchasing Department. The MOA reserves the right to accept or reject any and all bids.

Bid documents are available electronically at the MOA Purchasing Department's webpage at BidExpress.com; https://www.bidexpress.com/businesses/85766/home?agency=true&from_home_page=true. Addenda will be posted within the solicitation at BidExpress.

Bidders interested in participating via teleconference will call 1-907-343-6089 no earlier than **9:25 A.M. Alaska Time, June 18, 2026**. It is respectfully requested bidders participating via teleconference to please use a land line. **FOR AUXILIARY AIDS, LANGUAGE ACCESS FOR ASL AND LANGUAGE OTHER THAN ENGLISH, OR SPECIAL MODIFICATIONS TO PARTICIPATE PLEASE CONTACT THE PURCHASING DEPARTMENT AT 907-343-4590; OR VIA EMAIL AT WWPUR@MUNI.ORG.**

Questions regarding this ITB **will** be submitted in writing via email to wwpur@muni.org. Emailed questions **will** be received no later than **12:00 P.M. Alaska Time, June 11, 2026**. Questions will include the Buyer's name, the ITB number and ITB Title, on the subject line.

The MOA Purchasing Office is open from 8:00am to 5:00pm Monday through Friday, excluding MOA Holidays.

MUNICIPALITY OF ANCHORAGE

Ryan Marquis

Ryan Marquis
Deputy Purchasing Officer



The Municipality of Anchorage Purchasing Department is pleased to announce that we will begin using the Bid Express® service at www.bidexpress.com.

Electronic bid submission:

- allows for digitally-signed bids
- eliminates costs for delivery of packages
- provides error checking and alerts to omissions before submission
- easily accommodates last-minute changes and price cuts
- automates email notifications to alert vendors of solicitation postings and solicitation changes

If you are not a current user, please register for a free vendor account to reference the Municipality of Anchorage's upcoming advertisements.

For more information about the service, please refer to the Bid Express service's Knowledge Center [here](#) to get started.

For technical assistance, please call the service's Customer Success team at 888-352-2439, available Monday - Friday from 7:00 am – 8:00 pm (EST). You can also email them at bidexpress.support@infotechinc.com.

Additional information and notices of solicitation opportunities will be posted on the Purchasing webpage at Muni.org.

GENERAL PROVISIONS

The attached provisions, as modified by any addendum hereto, will become a part of any Purchase Order resulting from this Invitation to Bid. The Vendor by his acceptance of this order agrees thereto:

1. No alteration in any of the terms, conditions, delivery, price, quality, quantities or specifications of this order will be effective without prior consent of the Purchasing Director.
2. No charges will be allowed for packing, wrapping, bags, containers, reels, etc., unless otherwise specified.
3. Time of delivery is part of the essence of this contract and the **order is subject to cancellation for failure to deliver on time.**
4. For any exception to the delivery date as specified on this purchase order, the Vendor will give prior notification and obtain approval thereto from the Purchasing Director.
5. Shipping Instructions: Unless otherwise specified, please ship prepaid via cheapest common carrier FOB Destination. The MOA cannot accept COD Shipments.
6. Materials purchased are subject to the approval of the MOA and, if rejected, are held subject to the Vendor's risk and expenses incurred for their return as approved by the Purchasing Officer.
7. Purchase Order number *WILL* appear on all invoices, packing lists, packages, shipping notices, instruction manuals, and any correspondence.
8. Memorandum of contents will be enclosed in each box or package.
9. The vendor agrees to protect the MOA against all claims for patent or franchise infringement arising from the purchase, installation, or use of the material ordered on this contract, and to assume all expense and damage arising from such claims.
10. If price is not stated on this order, it is agreed that the goods will be billed at the price last quoted or paid, or the prevailing market price, whichever is lower.
11. It is agreed that the waiver or acceptance of any breach of any of the terms of this order will not operate to relieve the Vendor of the responsibility herein under for any prior to subsequent breach.
12. All specifications and plans referred to in this order will form a part of the contract.
13. The Vendor warrants articles supplied under this contract to conform to specifications herein, to be fit and sufficient for the purpose manufactured, merchantable, of good material and workmanship, and free from defect.
14. Cash discount period on all invoices will commence on the date the shipment is received by the MOA. If an adjustment or damage occurs on a shipment subject to cash discount, the discount period will commence on the date the shipment is finally accepted.
15. The MOA is exempt from Federal Excise and Transportation Taxes. Exemption certificates will be furnished upon request.
16. Liens: Vendor, by accepting this purchase order, warrants and represents that the goods, wares or merchandise ordered herein are free and clear from all claims and liens of whatsoever nature.
17. Upon opening bids, apparent results will be posted within the solicitation at BidExpress.
18. ANTI-DISCRIMINATION: During the performance of this contract the contractor agrees as follows:
 - (A) The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, national origin, ancestry, age, sex, sexual orientation, gender identity, marital status or mental or physical handicap. The Contractor will take affirmative action to ensure that applicants are employed and that employees are treated during employment without regard to the characteristics listed above. Such action will include, without limitation, employment, upgrading, demotion or transfer, recruitment or recruiting advertising, lay-off or termination, rates of pay or other forms of compensation and selection for training including apprenticeship. The Contractor will post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this non-discrimination clause. The contractor will comply with all laws concerning the prohibition of discrimination including, but not limited to Title 5 and Title 7 of the Anchorage Municipal Code.
 - (B) The Contractor will state, in all solicitations or advertisements for employees to work on contract jobs, that all qualified applicants will receive consideration for employment without regard to race, color, religion, national origin, ancestry, age, sex, sexual orientation, or gender identity, marital status, or physical or mental handicap.

GENERAL PROVISIONS (Continued)

- (C) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the labor union or workers' representative of the contractor's commitments under Section 202 of Executive Order No. 11246 of September 24, 1965, as amended, and will post copies of the notice in conspicuous places available to employees and applicants for employment.
- (D) The contractor will comply with all provisions of Executive Order No. 11246 of September 24, 1965, as amended, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- (E) The contractor will furnish all information and reports required by Executive Order No. 11246 of September 24, 1965, as amended and by the rules, regulations and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the owner of any one the owner will designate for purposes of investigation to ascertain compliance with such rules, regulations and orders.
- (F) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of such rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further contracts.

In accordance with procedures authorized in Executive Order No. 11246 of September 24, 1965, as amended, and such other sanctions may be imposed and remedies invoked as provided in Executive Order No. 11246 of September 24, 1965, as amended, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

- (G) By submitting a bid, the contractor certifies they are an equal opportunity employer and will not discriminate against any employee or applicant for employment because of race, color, religion, national origin, ancestry, age, sex, sexual orientation, gender identity, marital status, or physical or mental disability. The contractor will comply with all laws concerning the prohibition of discrimination including, but not limited to Title 5 and Title 7 of the Anchorage Municipal Code.
- (H) The contractor will include the provisions of paragraph 18 (A) through (G) in every subcontract or purchase order unless exempted by rules and regulations or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order No. 11246 of September 24, 1965, as amended, so such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontractor or purchase order as the owner may direct as a means of enforcing said provisions, including sanctions for noncompliance.

SPECIAL PROVISIONS

- 1. Any bid not meeting the requirements of this Invitation to Bid may be considered non-responsive.
- 2. Any bids quoting other than F.O.B. Destination, including freight, will be considered non-responsive. **Destination is: 8501 VFW (Hesterberg) Road, Eagle River, AK 99577**
- 3. Bids **will not be withdrawn for a period of forty-five (45) days** from date of bid opening.
- 4. The MOA will not be responsible for any bid preparation costs; including but not limited to costs associated with attending the pre-bid conference.
- 5. The MOA will not be responsible for any costs, including attorney fees (administrative, judicial or otherwise), associated with any challenge as to the determination of the lowest responsive and responsible bidder and/or award of contract, and/or rejection of bids. By submitting a bid, the bidder agrees to be bound in this respect and waives all claims to such costs and fees.
- 6. The MOA assumes no responsibility for any interpretations or representations made by any of its officers or agents unless such interpretations or representations are made by Addendum to this Solicitation.
- 7. **Electronic bids will be accepted through BidExpress.com, and is the preferred method for submission. Paper bids will be submitted in a sealed envelope addressed to the MOA Purchasing Department, 632 W. 6th Avenue, Suite 520, Anchorage, AK 99501 and will include the following, clearly and legibly written/typed on the outside of the envelope:**
 - a. **Bidder's Name (as indicated on Business License), Address, City, State, and Zip Code**
 - b. **Invitation to Bid #, Invitation to Bid Title and Buyer's Name**
- 8. At the above indicated time, bids will be opened publicly and read aloud. Bids received after the scheduled bid opening date and time or bids not containing the Purchasing Office time and date stamp will not be considered and will be held unopened by the Purchasing Department.

SPECIAL PROVISIONS (Continued)

9. **NO RESPONSIBILITY WILL ATTACH TO ANY OFFICER FOR THE PREMATURE OPENING OF, OR THE FAILURE TO OPEN, A BID NOT PROPERLY ADDRESSED AND IDENTIFIED.**
10. A bidder may withdraw, modify, or correct their bid after it has been submitted to the Purchasing Department. Requests for withdrawal, modification, or correction will be in writing and received by an agent of the MOA Purchasing Department. Requests for withdrawal, modification, or correction will be received **before** the time set for bid opening. Modified or corrected bids will be signed by an authorized bidder representative. Facsimile or emailed modifications or corrections **WILL NOT** be accepted. Modified or corrected bids will be received prior to the date and time set for bid opening. No bidder will be permitted to withdraw an offer after the time set for bids to be opened. Changes to electronic bids will be made through BidExpress.
11. Whenever a material, article, or piece of equipment is identified on the plans or in the specifications by reference to manufacturer or vendor name, trade name, catalog number, etc., it is intended merely to establish a standard; unless otherwise specified in the Invitation to Bid. Any material, article, or equipment of other manufacturers and vendors which meet the form, fit, and function imposed by the general design will be considered equally acceptable provided the material, article, or equipment so proposed is, in the opinion of the MOA, of equal substance in form, fit and function. Any item quoted, as "equal" will be accompanied by complete data and/or brochures to be used in evaluation.
12. Alternate bids are not encouraged unless specifically requested. However, if an alternate bid is submitted, the MOA will have sole discretion in either accepting or rejecting each alternate offered.
13. The Office of the Purchasing Director is located at 632 W. 6th Avenue, Suite 520, Anchorage, Alaska 99501, and is open for business from 8:00am to 5:00pm, Monday – Friday, Excluding MOA Holidays. Acceptance of special delivery mail is not available Saturday or Sunday.
14. The following will be held in the MOA Purchasing Office, 632 W. 6th Ave, Suite 525, Anchorage, AK 99501:

Bids Opened at:	9:30 A.M. Alaska Time,	June 18, 2026
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15. If more than one bid is offered by any one party for the same product, by or in the name of his clerk, partner, or other person, all such bids will be rejected. A party who has quoted prices to a bidder is not thereby disqualified from quoting prices to other bidders, or from submitting a bid directly for the work.
16. The MOA may reject any unbalanced bid if it is in the best interest of the MOA. A bid is considered unbalanced, when in the opinion of the Purchasing Director, the bid allocates a disproportionate share of costs to one or more bid items and reduces the costs of another bid item or items, and if there is a reasonable possibility that the bid will not result in the lowest overall cost to the MOA.
17. When the Bidding Documents contain a basic bid and additive alternates, the low Bidder will be determined by the lowest combination of the basic bid and as many additive alternates as may be chosen in the order listed in the Bid. The Purchasing Director may bypass any additive alternate whose selection would cause the Contract to exceed the funds available.
18. The Purchasing Director will use the list of priorities in the bid schedule to determine the low bidder only. After determining the low bidder, an award may be made on any combination of the bid items provided: (1) it is in the best interest of the MOA; (2) funds are available at the time of award; and (3) the low bidder's price for the combination to be awarded is less than the price offered by any other responsive, responsible bidder.
19. The MOA standard payment terms are NET 30. Bidders may offer discounts for prompt payment. The minimum prompt payment terms acceptable to the MOA is 1% and net 15 days. Prompt payment terms will **NOT** be utilized to determine final net price offered. Any prompt payment terms lower than 1% and net 15 will result in payment terms of NET 30. If bid includes prompt payment terms, bidder will include payment terms on the Bid Proposal Page. **NOTE: The prompt payment period will commence upon receipt and acceptance of the supply/service or receipt of a valid invoice; whichever occurs last.**
20. The MOA desires to utilize the MOA Procurement Card (credit card) for purchases made against this ITB. Bidder will indicate on the Bid Proposal Page if the MOA Procurement Card is acceptable.

BIDDER'S CHECK LIST

I. GENERAL

Bidders are advised, notwithstanding any instructions or implications elsewhere in this Invitation to Bid, only the documents shown and detailed on this sheet need be submitted with and made part of their bid. Other documents may be required to be submitted after bid opening, but prior to award. Bidders are hereby advised failure to submit all required documents shall be justification for rendering the bid non-responsive. Evaluation of bids for responsiveness shall be accomplished in accordance with Anchorage Municipal Code, Title 7.

II. REQUIRED DOCUMENTS FOR BID SUBMISSIONS

- A. BID PROPOSAL: Pages 7-8. **Page 8** shall be signed by an authorized representative of the Bidder. (Electronic bids will be signed digitally through BidExpress.)
- B. ADDENDA: All addenda issued against this Invitation to Bid shall be acknowledged on the solicitation page electronically at Bid Express. If submitting paper bids, any addenda must be acknowledged on the Bid Proposal page or by signing the Addenda sheet(s) and submitting the Addenda sheet(s) to the Municipality Purchasing Office prior to the time and date set for bid opening.

III. RESPONSIBLE BIDDER/CONTRACTOR QUESTIONNAIRE – IF APPLICABLE

Per AMC 7.20.030.B. the required certifications or disclosures must be submitted to the Purchasing Officer within five calendar (5) days of the request of Purchasing. The certifications and disclosures will be utilized by the Purchasing Officer to determine vendor responsibility. The required questionnaire is attached for review.

(Remainder of Page Intentionally left Blank)

BID PROPOSAL

NOTE: If submitting a paper bid, erasures or other changes made on the Bid Proposal page or the signature page shall be initialed by the person signing the bid.

ITEM	DESCRIPTION	QTY.	UNIT	UNIT PRICE	TOTAL PRICE
1	12x3x3 Galvanized Gabion with wire, per attached specifications	165	Each	\$ _____	\$ _____

Prompt Payment Discount - Payment Terms Offered
<p>_____ % Net 15 OR Net 30 (default) 1% is the minimum amount allowed (As referenced in Special Provisions, paragraph 19)</p>

Addendum Acknowledgement
<p>Number(s) _____ is/are hereby acknowledged</p>

The bidder will accept CREDIT CARDS FOR PURCHASES against this ITB.

- YES
 NO

BASIS OF AWARD

Award will be made to the lowest responsive and responsible bidder in accordance with Anchorage Municipal Code Sections 7.15.040, 7.20.020, 7.20.030, and 7.20.040, with preference to local bidders applied in accordance with Section 7.20.040. Evaluation for determining the lowest bid will be made in the **aggregate. TO BE CONSIDERED FOR AWARD ALL ITEMS MUST BE BID.** All items must be new and come with manufacturer's warranty, if supplied by the manufacturer. The purchasing Director will have the sole discretion to determine whether the bid submitted meets specifications of the Invitation to Bid, whether a bidder is responsive, and whether a deviation is material.

DELIVERY

The MOA requires delivery between June 30, 2026 and July 15, 2026. Any bids indicating a delivery date outside of the required delivery date may be considered non-responsive.

Vendor Name _____

BID PROPOSAL (CONTINUED)

By submitting a bid, the bidder acknowledges receipt, has reviewed and has an understanding of all documents listed on the Invitation to Bid Cover Sheet. For purposes of bid evaluation and contract award, in the event of inconsistency between the unit price and extended amount, the unit price will govern.

Authorized Representative Signature

Date

Printed Name

Title

Printed Vendor Name

Phone Number

Mailing Address

Fax Number

City, State, Zip Code

Company Email Address

Physical Address of Company (if different from above)

City, State, Zip Code

By signing above the bidder certifies they are an equal opportunity employer and will not discriminate against any employee or applicant for employment because of race, color, religion, national origin, ancestry, age, sex, sexual orientation, gender identity, marital status, or physical or mental disability. The contractor will comply with all laws concerning the prohibition of discrimination including, but not limited to Title 5 and Title 7 of the Anchorage Municipal Code.

SPECIFICATIONS

REFERENCE

See attached Specifications from Maccaferri.

DELIVERY

MOA ERSM Hiland Facility at **8501 Hesterberg Road, Eagle River**

Prior to delivery of the product, the Vendor will coordinate with ERSM staff a scheduled date, time for delivery, and destination by contacting 907-343-1510. Delivery to the Hiland Facility will be made available for coordination between the hours of 7:00 a.m. and 4:00 p.m., Monday through Friday.

A municipal employee will visually inspect the material to be received and annotate the Vendor's delivery ticket with his printed name and signature/initials upon approval of the inspected material(s). The delivery ticket must include a number identifying the material(s) to be received. One copy will be retained by the Vendor and attached to the invoice submitted for payment and another copy will be provided to the municipal employee at the time of delivery.

PAYMENT

The Vendor will provide the Municipality with a true and correct consolidated invoice. The invoice will list the delivery tickets, arrayed in numerical order with copies of the delivery tickets attached. The invoice will be such that the Municipality can readily identify each delivery tickets, the amount of material delivered, the unit price, and the total for all the delivery tickets. The format of the invoice must be such that it does not hinder processing by the Municipality. Otherwise, it will be declared a contested invoice.

Contested invoices will not be considered to be true and correct invoices. In the case of a contested invoice, the Municipality will have the option to pay the invoice under protest, pay the uncontested portion, or return the contested invoice to the Vendor. Any prompt payment discount date will start when the Municipality determines that they have an uncontested, true, and correct invoice.

Invoices shall have the Purchase Order Number and Public Works Department, Administration Division, Eagle River Street Maintenance Section clearly visible. A copy of the invoice shall be sent to:

**MOA Public Works / Administration
Eagle River Street Maintenance
12001 Business Blvd. Rm 131
Eagle River, Alaska 99577**

AND

Electronic Mailing to: Heather.Reed@anchorageak.gov

American Units

Product Description

Gabions are baskets manufactured from 8x10 double twisted hexagonal woven steel wire mesh, as per ASTM A975 (Figs. 1, 2). Gabions are filled with stones at the project site to form flexible, permeable, monolithic structures such as retaining walls, channel linings, and weirs for erosion control projects. The steel wire used in the manufacture of the gabion is heavily zinc coated soft temper steel. The standard specifications of mesh-wire are shown in Table 2.

The gabion is divided into cells by diaphragms positioned at approximately 3 ft (0.9 m) centers (Fig.1). To reinforce the structure, all mesh panel edges are selvedged with a wire having a greater diameter (Table 3). Dimensions and sizes of galvanized gabions are shown in Table 1.

Gabions shall be manufactured and shipped with all components mechanically connected at the production facility.

Wire

All tests on wire must be performed prior to manufacturing the mesh. All wire should comply with ASTM A975, style 1 coating. Wire used for the manufacture of Gabions and the lacing wire, shall have a maximum tensile strength of 75,000 psi (515 MPa) as per ASTM A641/A641M-03, soft temper steel.

Woven Wire Mesh Type 8x10

The mesh and wire characteristics shall be in accordance with ASTM A975 Table 1, Mesh type 8x10. The nominal mesh opening $D = 3.25$ in. (83 mm) as per Fig. 2.

The minimum mesh properties for strength and flexibility should be in accordance with the following:

- *Mesh Tensile Strength* shall be 3500 lb/ft (51.1 kN/m) minimum when tested in accordance with ASTM A975 section 13.1.1.
- *Punch Test resistance* shall be a minimum of 6000 lb (26.7 kN) when tested in compliance with ASTM A975 section 13.1.4.
- *Connection to Selvedges* should be 1400 lb/ft (20.4 kN/m) when tested in accordance with ASTM A975.

Lacing, Assembly and Installation

Gabion units are assembled and connected to one another using lacing wire specified in Table 3 and described in Fig. 4. MacTie preformed stiffeners or lacing wire can be used as internal connecting wires when a structure requires more than one layer of gabions to be stacked on top of each other. Internal connecting wires with lacing wire shall connect the exposed face of a cell to the opposite side of the cell. Internal connecting preformed stiffeners shall connect the exposed face of a cell to the adjacent side of the cell. Preformed stiffeners are installed at 45° to the face/side of the unit, extending an equal distance along each side to be braced (approximately 1 ft. (300 mm)). An exposed face is any side of a gabion cell that will be exposed or unsupported after the structure is completed.

Galvanized steel ring fasteners can be used instead of, or to complement, the lacing wire (Fig. 5).

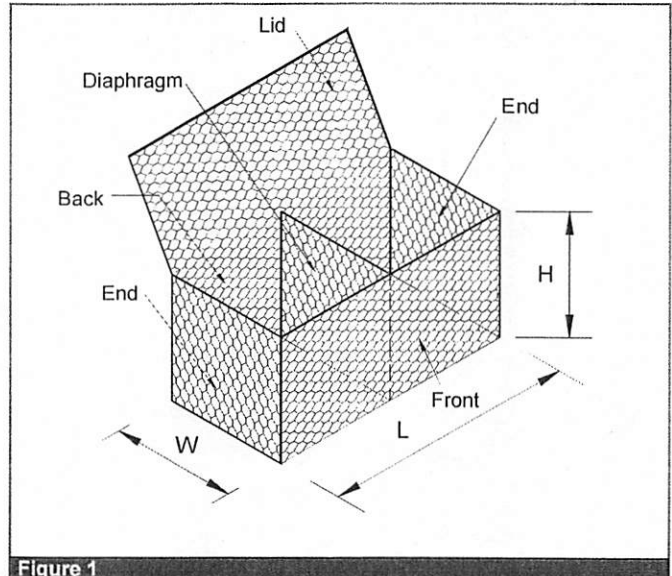


Figure 1

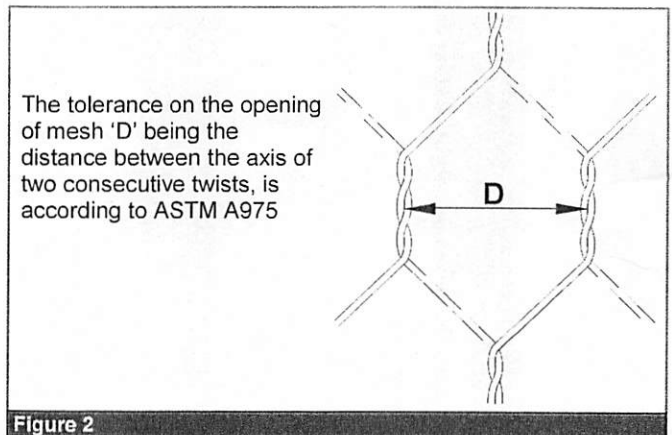


Figure 2

The tolerance on the opening of mesh 'D' being the distance between the axis of two consecutive twists, is according to ASTM A975

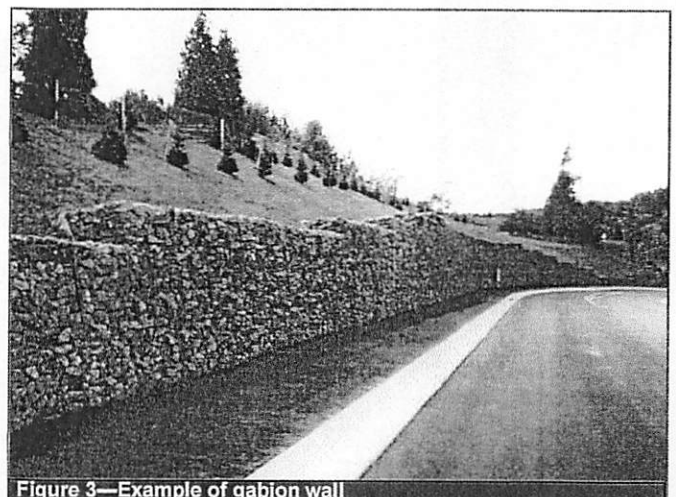


Figure 3—Example of gabion wall

Table 1—Sizes for Gabions

L=Length ft (m)	W=Width ft (m)	H=Height ft (m)	# of cells
6 (1.8)	3 (0.9)	3 (0.9)	2
9 (2.7)	3 (0.9)	3 (0.9)	3
12 (3.6)	3 (0.9)	3 (0.9)	4
6 (1.8)	3 (0.9)	1.5 (0.45)	2
9 (2.7)	3 (0.9)	1.5 (0.45)	3
12 (3.6)	3 (0.9)	1.5 (0.45)	4
6 (1.8)	3 (0.9)	1 (0.3)	2
9 (2.7)	3 (0.9)	1 (0.3)	3
12 (3.6)	3 (0.9)	1 (0.3)	4
4.5 (1.4)	3 (0.9)	3 (0.9)	1
12 (3.6)**	6 (1.8)	1 (0.3)	4

All sizes and dimensions are nominal. Tolerances of $\pm 5\%$ of the width, height, and length of the gabions shall be permitted.

Galvanized steel rings for galvanized gabions shall be in accordance with ASTM A975 section 6.3.

Spacing of the rings shall be in accordance with ASTM A975 Table 2, Panel to Panel connection, Pull-Apart Resistance. In any case, ring fasteners spacing shall not exceed 6 in. (150 mm) (Fig. 4).

The rings can be installed using pneumatic or manual tools (Fig. 6). For full details, please see the Gabion Product Installation Guide.

The average maximum resistance of the fasteners from the field shall not be lower than 90% of the resistance provided in the certification.

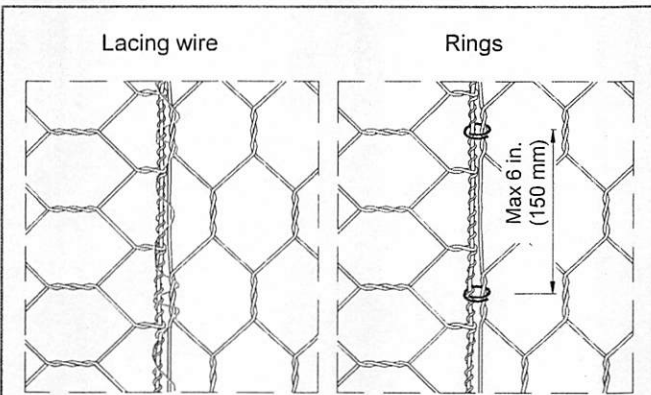


Figure 4

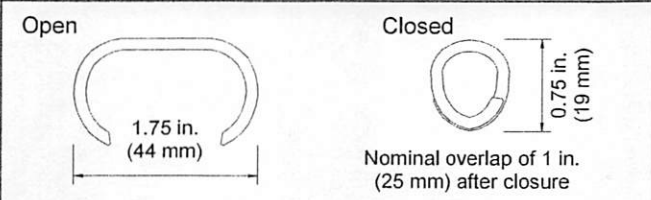


Figure 5

Table 2—Standard mesh-wire

Type	D in. (mm)	Tolerance	Wire Dia in. (mm)
8x10/ ZN	3.25 (83)	$\pm 10\%$	0.12 (3.05)

Table 3—Standard wire diameters

	Lacing Wire	Mesh Wire	Selvedge Wire / Preformed Stiffeners
Mesh Diameter ϕ in. (mm)	0.087 (2.20)	0.120 (3.05)	0.153 (3.90)
Wire Tolerance (\pm) ϕ in. (mm)	0.004 (0.10)	0.004 (0.10)	0.004 (0.10)
Minimum Qty/Zinc oz/ft ² (g/m ²)	0.70 (214)	0.85 (259)	0.90 (275)

Quantity Request

When requesting a quotation, please specify:

- Number of units,
- Size of units (length x width x height, see Table 1),
- Type of mesh,
- Type of coating.

EXAMPLE: No. 100 gabions, 6x3x3, Mesh type 8x10, Wire diam. 0.120 in, Galvanized.

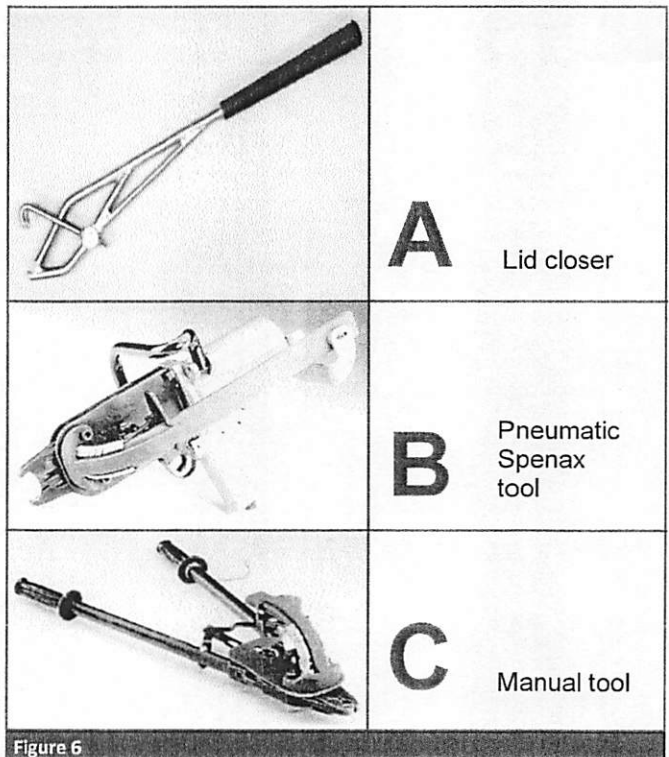


Figure 6

Maccaferri, Inc.
 10303 Governor Lane Blvd., Williamsport, MD 21795
 Tel. (800) 638-7744 - Fax (301) 223-4590
 E-mail: info@maccaferri-usa.com - Web site: www.maccaferri-usa.com

Area Offices:
 Phoenix, Arizona
 Sacramento, California
 Miami, Florida
 St. Louis, Missouri

Trenton, New Jersey
 Albuquerque, New Mexico
 Caguas, Puerto Rico
 Dallas/Ft. Worth, Texas

Installation and Filling

After the foundation has been prepared, the pre-assembled gabions are placed in the desired location to form the structure. Gabions shall be connected together and aligned before filling the baskets with rock. All connections (panel-to-panel and basket-to-basket) shall be already carried out as described in the assembly operations.

Rocks for gabions may be produced by any suitable quarrying method, and by the use of any device that yields the required sizes within the gradation limits chosen. Rocks shall be hard, angular to round, durable and of such quality that they shall not disintegrate on exposure to water or weathering during the life of the structure.

Gabion rocks shall range between 4-8 in. (100-200 mm). The range in sizes may allow for a variation of 5% oversize and/or 5% undersize rock, provided it is not placed on the gabion's exposed surface. In all cases, the oversize rock shall not be larger than 10 in. (250 mm), and the undersize rock shall not be smaller than 2 in. (50 mm).

During the filling operation some manual stone placement is required to minimize voids. The exposed faces of vertical structures may be carefully hand placed to give a neat, flat, and compact appearance. The cells shall be filled in stages so that local deformation may be avoided. That is, at no time, shall any cell be filled to a depth exceeding 1 ft (300 mm) higher than the adjoining cell (Fig. 7). When using PVC gabions, care should be taken when placing the stone to assure that the PVC coating on gabions will not be damaged.

Stiffeners or crossties shall be installed as indicated (Fig. 6), fixed at 1/3 and 2/3 of the height for 3 ft or 1 m gabions as the cell is being filled. In 1.5 ft (500 mm) high units stiffeners may be fixed at the half height level, if required. Preformed corner stiffeners are installed at 45° to the face/side of the unit, extending an equal distance along each side being braced (approximately 1 ft [300 mm]). Minimize the number of voids by using a well-graded stone and avoid large stones in order to achieve a dense, compact stone fill. All corners should be securely connected to the neighboring gabions of the same layer before filling the units.

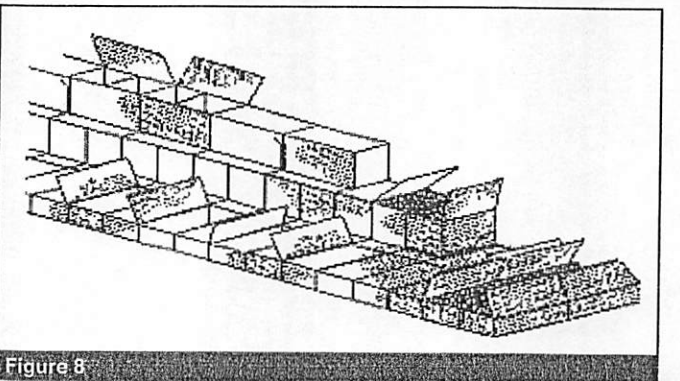
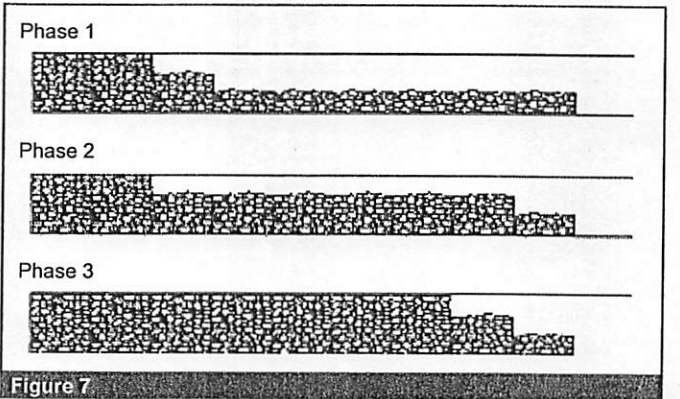
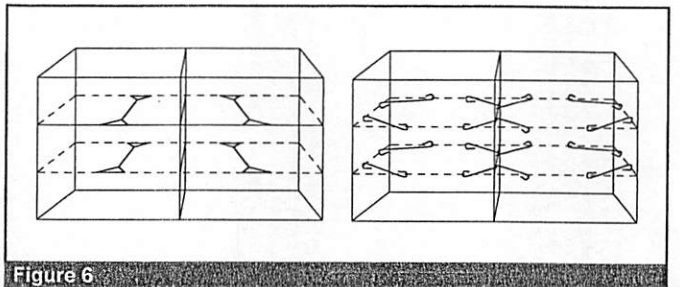
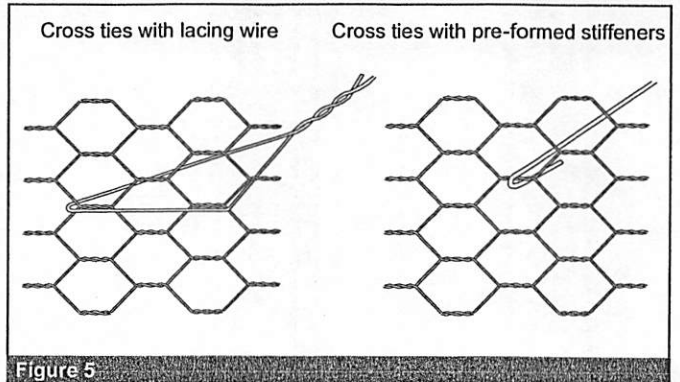
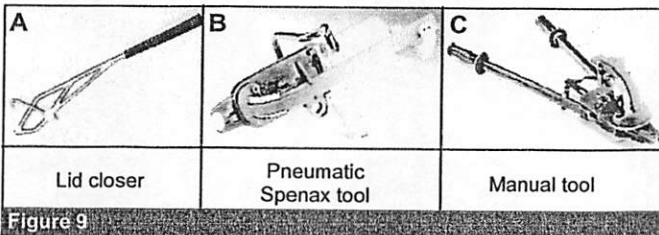
When more than one layer of gabions is required, in order for the individual units to become incorporated into one continuous structure, the next layer of gabions must be connected to the layer underneath after this layer has been securely closed (Fig. 8).

Gabion placement should be front to front and back to back, so that pairs of facing lids can be wired down in one process.

Secure the end from which the work is to start, by partially filling the end unit with rock.

Closing

To allow for settlement, level off the fill 1-1.5 in. (25-40 mm) above the top of the mesh. In slow protection aprons downstream of weirs and places where water will fall directly on the gabions, install bracing wires vertically between the top and bottom mesh. Be sure to keep the top edge of the diaphragm exposed. Fold the lid down and pull the edges of the panels to be connected using an appropriate tool such as a lid closer (Fig. 9). The lids shall be tightly laced along all edges, ends and diaphragms in the same manner as described for assembling units (Fig. 4). Adjacent lids may be securely attached simultaneously. All end wires should then be turned in to avoid protrusions.



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Fax: 916-371-0764

Installation and Filling

After the foundation has been prepared, the pre-assembled gabions are placed in the desired location to form the structure. Gabions shall be connected together and aligned before filling the baskets with rock. All connections (panel-to-panel and basket-to-basket) shall be already carried out as described in the assembly operations.

Rocks for gabions may be produced by any suitable quarrying method, and by the use of any device that yields the required sizes within the gradation limits chosen. Rocks shall be hard, angular to round, durable and of such quality that they shall not disintegrate on exposure to water or weathering during the life of the structure.

Gabion rocks shall range between 4-8 in. (100-200 mm). The range in sizes may allow for a variation of 5% oversize and/or 5% undersize rock, provided it is not placed on the gabion's exposed surface. In all cases, the oversize rock shall not be larger than 10 in. (250 mm), and the undersize rock shall not be smaller than 2 in. (50 mm).

During the filling operation some manual stone placement is required to minimize voids. The exposed faces of vertical structures may be carefully hand placed to give a neat, flat, and compact appearance. The cells shall be filled in stages so that local deformation may be avoided. That is, at no time, shall any cell be filled to a depth exceeding 1 ft (300 mm) higher than the adjoining cell (Fig. 7). When using PVC gabions, care should be taken when placing the stone to assure that the PVC coating on gabions will not be damaged.

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All corners should be securely connected to the neighboring gabions of the same layer before filling the units. When more than one layer of gabions is required, in order for the individual units to become incorporated into one continuous structure, the next layer of gabions must be connected to the layer underneath after this layer has been securely closed (Fig. 8).

Gabion placement should be front to front and back to back, so that pairs of facing lids can be wired down in one process.

Secure the end from which the work is to start, by partially filling the end unit with rock.

Closing

To allow for settlement, level off the fill 1-1.5 in. (25-40 mm) above the top of the mesh. In slow protection aprons downstream of weirs and places where water will fall directly on the gabions, install bracing wires vertically between the top and bottom mesh. Be sure to keep the top edge of the diaphragm exposed. Fold the lid down and pull the edges of the panels to be connected using an appropriate tool such as a lid closer (Fig. 9). The lids shall be tightly laced along all edges, ends and diaphragms in the same manner as described for assembling units (Fig. 4). Adjacent lids may be securely attached simultaneously. All end wires should then be turned in to avoid protrusions.

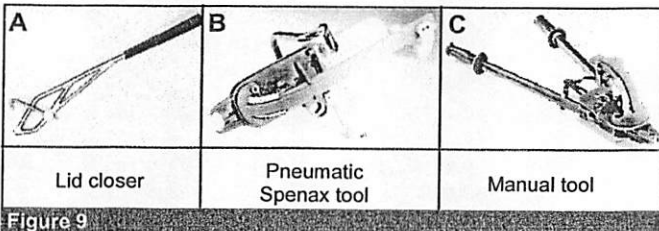


Figure 9

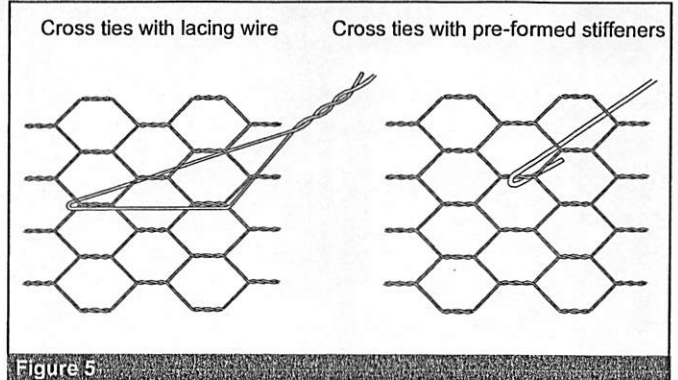


Figure 5

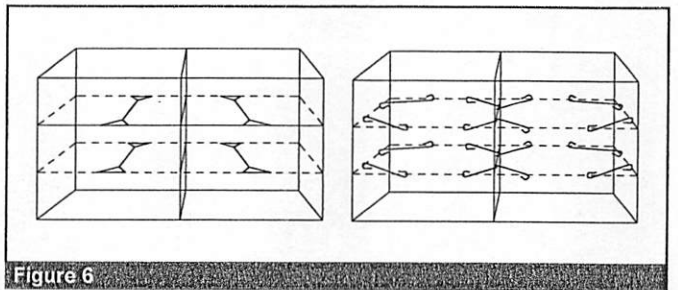


Figure 6

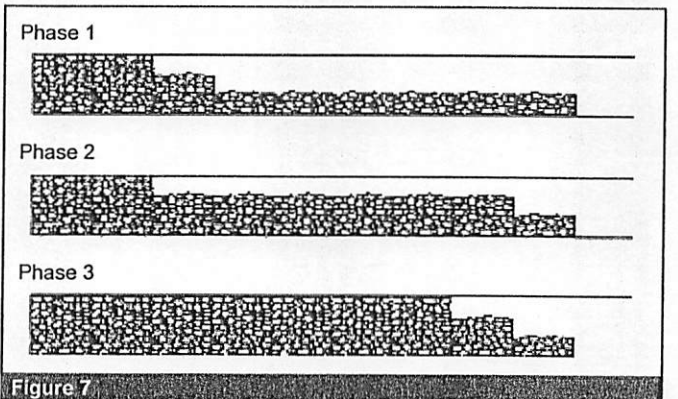


Figure 7

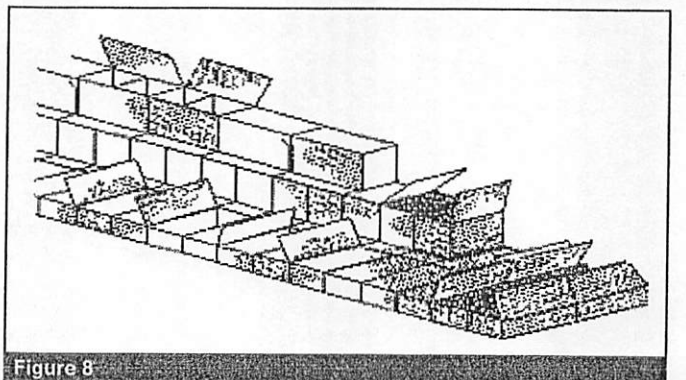


Figure 8

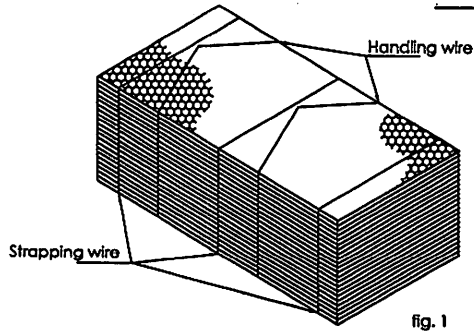
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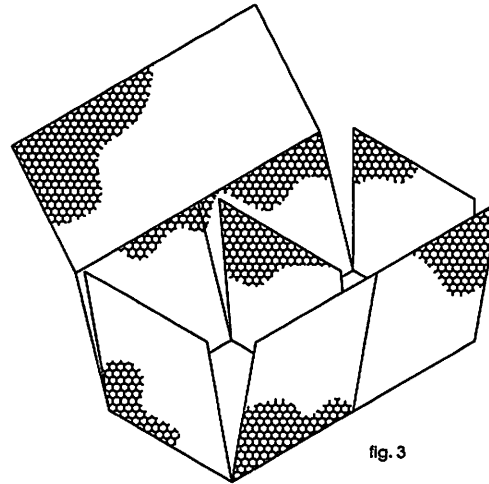
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UNPACKING & ASSEMBLY PROCESS

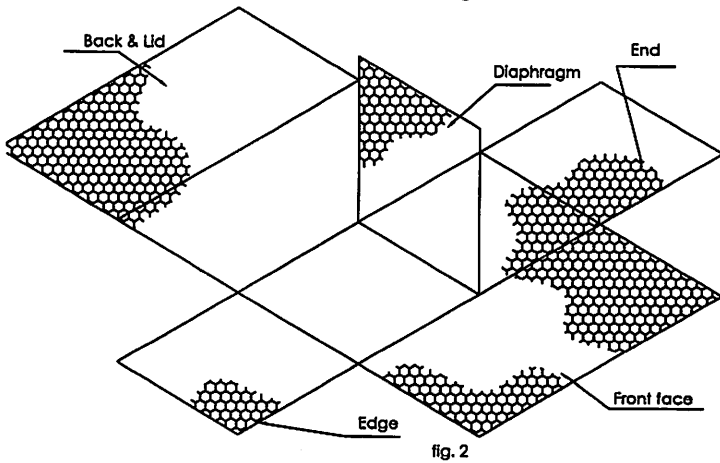


Maccaferri Gabions are delivered to the job site in bundles. They are compressed and strapped in the factory for easier shipping and handling.



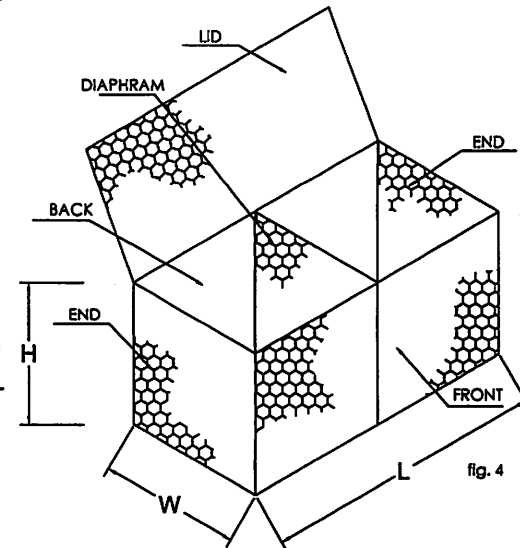
2. Pull up the sides and the diaphragms to form an open box. Be sure the top of the face and the side are at the same level.

3. Fold by hand the end of the reinforcing wire of the main unit and the diaphragms allowing the gabion to stand by itself.



1. Open and unfold the gabions one by one on a flat, hard surface. Eliminate all folds due to the packaging.

ASSEMBLED GABION BASKET



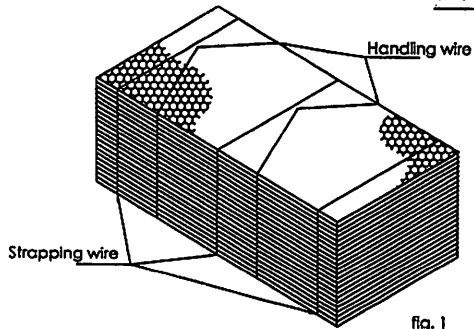
Maccaferri Inc. assumes no responsibility for the drawings and calculations it provides, as they must be intended as a general indication to suggest the proper use of its products.

Project Title: Gabion Construction Drawings				Designed: -	Date: 03/01/07	Drawing Title: Gabion Assembly Process	
Project No: _____ Client: _____				Drawn: -	Date: _____	NOT FOR CONSTRUCTION	
Drawing No: Gabion Construction Drawing _01 Scale: NTS Rev: # _____				Checked: -	Date: _____		
Rev: _____ Issue / Revision: _____ Drawn: _____ App: _____ Date: _____				Approved: -	Date: _____		

MACCAFERRI

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UNPACKING & ASSEMBLY PROCESS



Maccaferri Gabions are delivered to the job site in bundles. They are compressed and strapped in the factory for easier shipping and handling.

fig. 1

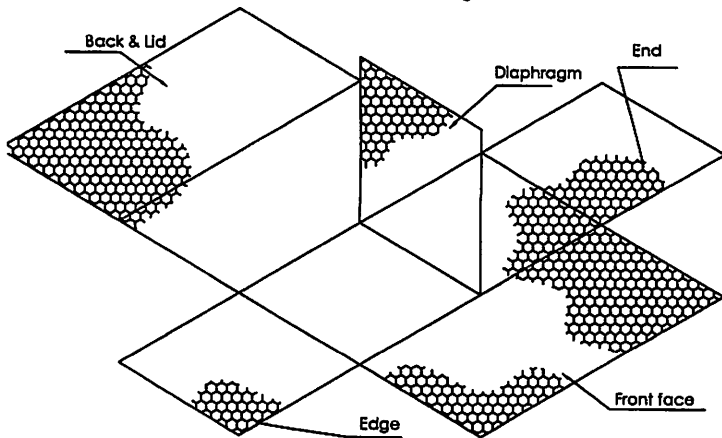


fig. 2

1. Open and unfold the gabions one by one on a flat, hard surface. Eliminate all folds due to the packaging.

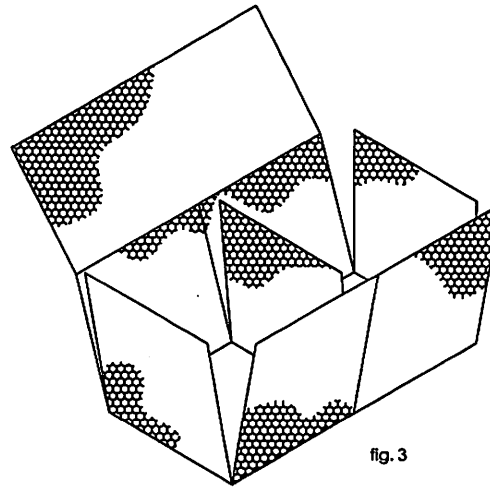


fig. 3

2. Pull up the sides and the diaphragms to form an open box. Be sure the top of the face and the side are at the same level.

3. Fold by hand the end of the reinforcing wire of the main unit and the diaphragms allowing the gabion to stand by itself.

ASSEMBLED GABION BASKET

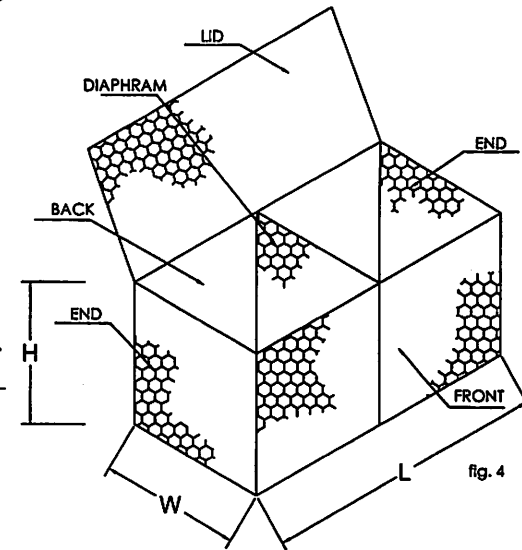


fig. 4

Maccaferri Inc. assumes no responsibility for the drawings and calculations it provides, as they must be intended as a general indication to suggest the proper use of its products.

	Project Title: Gabion Construction Drawings	Designed: - Drawn: - Checked: - Approved: -	Date: 03/01/07 Date: Date: Date:	Drawing Title: Gabion Assembly Process NOT FOR CONSTRUCTION	<div style="background-color: black; color: white; padding: 5px; font-weight: bold; font-size: 1.2em;">MACCAFERRI</div> <p style="font-size: 0.8em; margin: 0;"> Maccaferri, Inc. 10303 Governor Lane Blvd. Williamsport, MD 21796-3116 USA Ph. (301) 223-6910 Fax (301) 223-6134 </p>
Project No: _____ Client: _____ Drawing No: _____ Scale: _____ Rev: # _____ Gabion Construction Drawing _01 NTS	Issue / Revision: _____ Drawn: _____ Appr: _____ Date: _____				

Municipality of Anchorage Contractor Questionnaire

Contractors/Vendors wishing to qualify for award of a bid or proposal offered by the Municipality of Anchorage shall submit this completed form and any supplemental information requested by this form within five days following a request by the Purchasing Officer.

Contractor/Vendor Name: _____

Owner(s) of Company (if sole proprietorship or partnership): _____

List all Alaska construction contractor's registration numbers, registration types and expiration dates of the Alaska business licenses held by your company in the past three years:

Has your company changed names, business license number, or contractor registration number in the past three years?

Yes No

If "Yes," explain on a separate signed page, including the reason for the change.

Has any owner, partner or (for corporations) officer of your company operated any business offering similar services outlined in the bid or proposal under any other name in the past three years?

Yes No

If "Yes," explain on a separate signed page, including the reason for the change.

Certifications & Disclosures

For these questions & certifications, "company" includes any entity that shares or has shared majority ownership or control with your company. "Determination of violation" includes any citations, orders or recommendations issued to or against the company.

Debarment

1. In the last three years has your company been debarred from bidding on, or being awarded, a state or federal project?

Yes No

Occupational Safety & Health

Note: Only willful violations of state or federal occupational safety and health laws will result in disqualification; disclosure of other violations does not lead to automatic disqualification.

2. In the last three years has your company been determined to have committed a **willful violation** of state or federal occupational safety and health law? For purposes of this question, a state or federal occupational safety and health law includes laws enforced by

Municipality of Anchorage Contractor Questionnaire

the Occupational Safety and Health Administration (OSHA), Alaska Occupational Safety and Health (AKOSH), or another state's occupational safety and health agency.

Yes No

3. In the last three years, has the federal Occupational Safety and Health Administration (OSHA), Alaska Occupational Safety and Health (AKOSH), or another state's occupational safety and health agency, made a determination of violation against your company?

Note: If you have filed an appeal of a citation and the appropriate appeals board has not yet ruled on your appeal, you need not include information about it.

Yes No

If "Yes," attach a separate signed page describing each citation.

Wage & Hour

Note: Only willful violations of state or federal wage and hour laws will result in disqualification; disclosure of other violations does not lead to automatic disqualification.

4. In the last three years has your company been determined to have committed a **willful violation** of state or federal wage and hour law?

Yes No

5. In the last three years has there been a determination of violation of wage and hour laws against your company? Wage and hour violations include failure to pay minimum wages, overtime, or prevailing wages.

Yes No

If "Yes," attach a separate signed page describing each violation, identifying the claim by claimant, date, and status/outcome.

Unemployment Insurance & Workers' Compensation

6. In the last three years has there been a determination of violation of unemployment insurance or workers' compensation requirements against your company?

Yes No

If "Yes," attach a separate signed page describing each violation, identifying the claim by claimant, date, and status/outcome.

Licensing & Registration

7. If a license or certificate of fitness is required to perform any services provided by your company, has there been a determination of violation of any certificate of fitness requirements against your company in the last three years?

