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Gabions

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee, as the result of proposal for revision of Japanese Industrial Standard submitted by the Manufacturing Chain Ring of Japan (MCJ)/the Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14. Consequently **JIS A 5513 : 1993** is replaced with this Standard.

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In the event of any doubts arising as to the contents,
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Gabions

1 Scope This Japanese Industrial Standard specifies zinc-coated low carbon steel wire, polyvinyl chloride coated color steel wire, precoated color zinc-coated low carbon steel wire and hot-dip aluminium-coated steel wire gabions (hereafter referred to as “gabion”), composed mainly of the rhombic patterned netting to be used for earth retaining with filling stones or the like.

2 Normative references The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS G 3542 *Precoated color zinc-coated steel wires*

JIS G 3543 *Polyvinyl chloride coated color steel wires*

JIS G 3544 *Hot-dip aluminium-coated steel wires*

JIS G 3547 *Zinc-coated low carbon steel wires*

JIS H 0401 *Methods of test for hot dip galvanized coatings*

JIS H 8672 *Methods of test for hot dip aluminized coatings on ferrous products*

3 Definitions Definitions of principal terms used in this Standard shall be as follows.

- a) **body net** A net forming the main part of the gabion.
- b) **row wire** A wire worked continuously and bended to form a body net.
- c) **mesh** A rhombic quadrangle space surrounded by row wires.
- d) **straight wire** A straight wire of a specific length, corrected by a wire straightener.
- e) **corner stiffener** Straight wires used in four sides in a rectangular gabion, to assemble the rectangular body net.
- f) **staple wire** A “V” shaped wire, cut from a row wire.
- g) **panel type rectangular gabions** A rectangular gabion made by assembling panel type wire nets constituting the main body, top lid, and sides.
- h) **main body panel** A net made of a frame constituting the main body and row wires are processed, and is of panel type rectangular gabion.
- i) **top lid panel** A net made of a frame and a row wire constituting the top lid of a panel type rectangular gabion.
- j) **side panel** A net made of a frame and a row wire constituting the side face of a panel type rectangular gabion.
- k) **assembling coil** A wire processed in a coil state which bonds the main body panel, the top panel and the side panel of the panel type rectangular gabion.

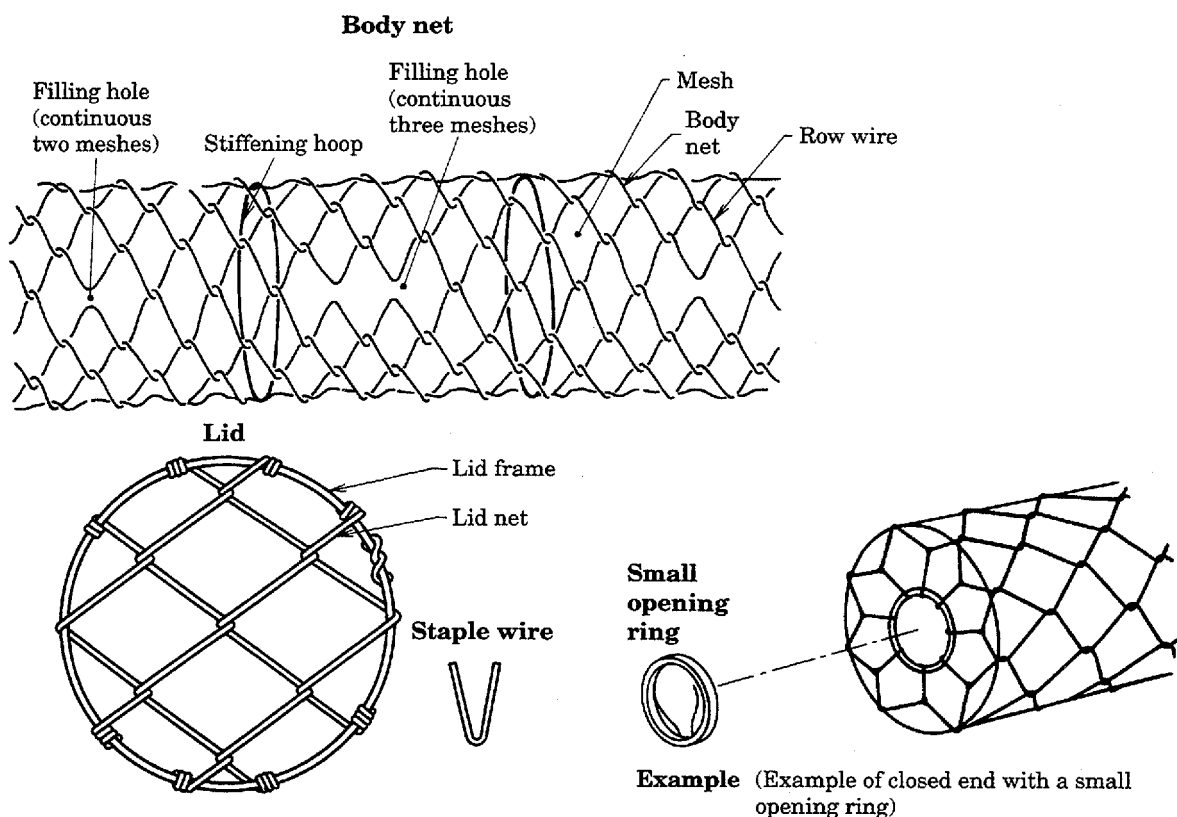
- l) **reinforcing wire** A reinforcing spare wire for preventing deformation of the main body panel caused by filling stone.

4 Types The gabions shall be of the following four types.

- a) Cylindrical gabions
- b) Rectangular gabions
- c) Panel type rectangular gabions
- d) Deformed gabions

5 Shape, construction, name of each part and quantity of parts

5.1 Cylindrical gabions The cylindrical gabions shall be constructed of body net, lids, stiffening hoops and staple wires and the shape and name of each part shall be as given in Fig. 1. The quantity of parts shall be as given in Table 1. However, for the type in which both ends of body net are closed without a lid, small opening rings are used instead of the lids.



Remarks : This figure shows only names and does not provide any standards of shape and structure.

Fig. 1 Shape of cylindrical gabions and names of respective parts