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Vertical protective net for construction work

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal of establishing a Japanese Industrial Standard from Alliance Cooperation of Construction Equipment Scaffolding for Safety (ACCESS)/Japanese Standards Association (JSA), with a draft of Industrial Standard based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

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In the event of any doubts arising as to the contents,
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Vertical protective net for construction work

Introduction Since about 1975, the net of synthetic fibre came to be used for preventing the bolts, tools and the like from falling at the time of steel frame construction, because of its advantages such as recyclability, lightweight and handiness. And recently it is used at the construction site of high-rise buildings, condominiums, shopping centres and the like.

This time, for the purpose of unifying the quality and performance of the vertical protective net for construction work and ensuring the quality, this Japanese Industrial Standard has been established.

1 Scope This Standard specifies the vertical protective net for construction work (hereafter referred to as “vertical net”) prepared by using the woven or knitted net of which the main material is the woven net fabric of synthetic fibre. The dimensions of mesh of vertical net shall be limited to 13 mm or over up to and including 18 mm.

Information : The sheets of canvas or sheets of net fabric of 12 mm or under in mesh are specified in **JIS A 8952**.

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 A 8952 *Fabric sheets for construction shelters*

JIS G 3444 *Carbon steel tubes for general structural purposes*

JIS G 4051 *Carbon steels for machine structural use*

JIS L 1091 *Testing methods for flammability of textiles*

JIS L 2704 *Nylon ropes*

JIS L 2705 *Polyethylene ropes*

JIS L 2706 *Polypropylene ropes*

JIS L 2707 *Polyester ropes*

3 Definitions For the purpose of this Standard, the following definitions apply.

- a) **net fabric** the fabric composed of continuous mesh
- b) **hem rope** the rope forming the sides of net by fixing to the circumference of net fabric
- c) **fixing rope** the rope to fix the net to steel frame and the like
- d) **reinforcing rope** the rope to fix at the middle of net for reinforcement
- e) **dimension of mesh** the length of one side of mesh measured between the cores of net yarn (see figures 1 to 4)

- f) **dimension of net** the size of net expressed by the length of one side for a square net and the lengths of long side and short side for a rectangular net
- g) **square mesh** the mesh of which the hem rope and the net yarn are in parallel (see figure 1)
- h) **rhombic mesh** the mesh of which the hem rope and the net yarn are not in parallel (see figure 2)
- i) **Raschel net fabric** a kind of knotless net fabric of which the net fabric is knitted by Raschel netting machine
- j) **knotless net fabric** the net fabric of which the net yarns of mesh are not knotted at the crossing part but crossed alternately or combined as the strand of net yarn is twisted
- k) **woven net** the mesh prepared by weaving warp and weft (see figure 3)
- l) **fork-shaped net** the net fabric formed by the fork shaped knot at the crossing part of net yarns of mesh (see figure 4)
- m) **net yarn** the yarn composing net fabric by twisting or combining several pieces of single yarn (see figure 6)
- n) **knot** the intersection point of net yarns

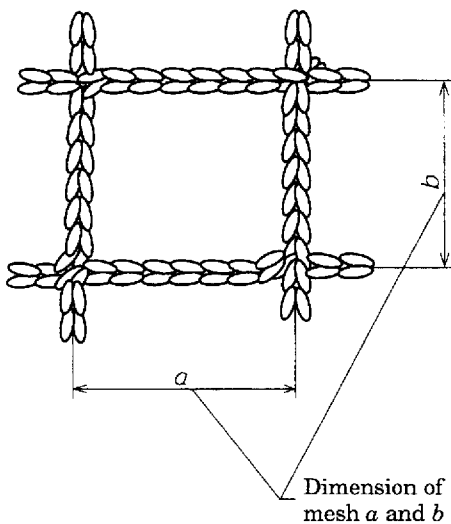


Figure 1 Mesh of vertical net (square mesh)

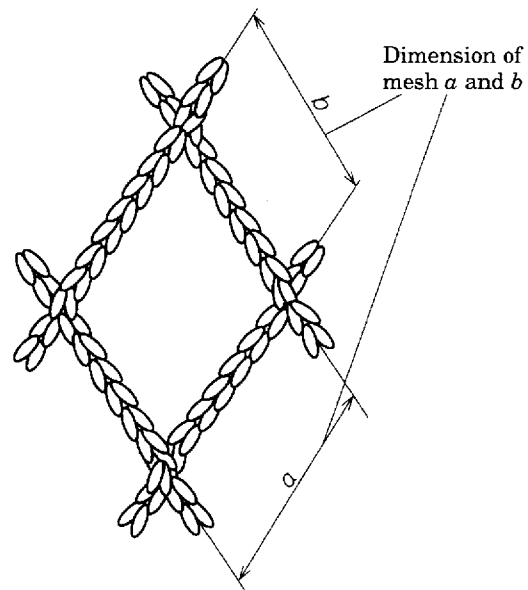


Figure 2 Mesh of vertical net (rhombic mesh)