

Approval & Reception Procedure

DMC – Departamento de Materiais de Construção	
Steel Meshes for Reinforced Concrete	Document no. ARP/DMC/016
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1 Reference standard

The Reference standard is BS4483:1998.

2 Approval procedures

Manufacturer's information (such as catalogue, accredited quality system certificates etc.) and mill certificates of each type and size of steel meshes shall be submitted for compliance verification before any delivery.

Compliance verification includes the followings:

- Physical Properties : size, pitch, mass/meter square, mass/meter run of individual bars
- Chemical properties (in case of welding connection only) :C,P, S, and CEV
- Tensile properties: Yield strength, Tensile strength, and elongation after broken
- Weld Shear Properties

3 Reception procedure

3.1 Stocking on the site

Each lot of steel meshes shall be stocked separately by type, grade, and manufacturer, in an adequate manner, not in contact with soil and in a way to facilitate identification and sampling.

Note: Lot – Quantity \leq 50 tons of steel meshes of same type, grade, manufacturer, delivered to site and presented for reception at any one time.

3.2 Information to be submitted

Manufacturer's Mill Certificates and Quantity of each delivery shall be submitted for reception sampling.

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3.3 Sampling for test

Sampling frequency shall be the followings:

1 Lot	: 1 sample
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Note:

- Sample shall be at least "1 mx1m" in which 6 bar elements in one direction could be obtained.
- In case, a mesh consists of 2 different diameters of bars, then 1 more sample may be required.

3.4 Testing

In each sample:

- 3 specimens of one direction for tensile tests
- 3 specimens of another direction for tensile tests (for mesh consists of 2 different diameters of bars only)
- 3 specimens of either direction for weld shear tests

4 Acceptance criteria

If any specimen fails to meet the tensile or weld shear test requirements, 2 additional samples shall be taken from different meshes of the same lot and subjected to the test or tests in which the original sample failed.

If all the specimens of both additional samples comply with the requirements, then this lot can be considered acceptable. If any one of the specimens fails, the lot shall be rejected.