

CONFIRMED
DECEMBER 2007

Containment nets and sheets on construction works — Specification for performance and test methods

ICS 13.340.20
91.220

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

BSI
Documents



Document Sharing Hub

Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee B/514/27, Nets and sheets, upon which the following bodies were represented:

- Construction Confederation
- Construction Health and Safety Group
- Construction Industry Training Board
- Cordage Manufacturers Institute
- English Net Manufacturers Association
- Health and Safety Executive
- Institution of Structural Engineers
- Made-Up Textiles Association
- National Association of Scaffolding Contractors
- National Federation of Roofing Contractors

This British Standard, having been prepared under the direction of the Building and Civil Engineering Sector Committee, was published under the authority of the Standards Committee and comes into effect on 15 December 1999

© BSI 12-1999

Amendments issued since publication

Amd. No.	Date	Comments

The following BSI references relate to the work on this standard:
Committee reference B/514/27
Draft for comment 96/107981 DC

ISBN 0 580 33087 7

Contents

	Page
Committees responsible	Inside front cover
Foreword	ii
1 Scope	1
2 Normative references	1
3 Definitions	1
4 Tests	1
5 Performance requirements	1
6 Flammability	4
7 Permeability	4
8 Light transmission	4
9 Marking	4
Annex A (normative) Impact test	5
Annex B (normative) Puncture test	8
Annex C (normative) Flammability	9
Annex D (normative) Wind tunnel test to establish the permeability of nets used for cladding	11
Bibliography	13
Figure 1 — Attachment point strength test	2
Figure 2 — Tie strength test	3
Figure A.1 — Preparation of sample sheet or net for impact test	5
Figure A.2 — Impact test — Test rig	6
Figure A.3 — Impact test — Test apparatus	7
Figure B.1 — Preparation of sample sheet or net for puncture test	8
Figure B.2 — Puncture test — Test apparatus	9
Figure C.1 — Arrangement for flammable liquid test	11
Figure D.1 — Log ₁₀ permeability <i>v</i> log ₁₀ form factor	12

Foreword

This British Standard has been prepared by Technical Committee B/514, Nets and sheets, and supersedes performance specifications contained within BS 8093:1991 annexes D and E. It supersedes the recommended performance specification for containment nets and sheeting contained in BS 8093.

The flammability tests given in annex C are reproduced verbatim from the Loss Prevention Council Standard (LPS) LPS 1215.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 13 and a back cover.

The BSI copyright notice displayed in this document indicates when the document was last issued.

1 Scope

This British Standard specifies requirements and test methods for containment nets and sheets intended for use on construction works.

It covers flame retardant and non-flame retardant containment nets and sheets.

It also specifies test methods and performance specifications for ties used in conjunction with nets and sheets. It does not cover safety nets, barrier nets or temporary roofs. It does not cover installation and use.

This British Standard does not specify ageing requirements.

2 Normative references

This British Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate place in the text and the publications are listed hereafter. For dated references, only the edition cited applies; any subsequent amendments to or revisions of any of these publications apply to this British Standard only when incorporated in it by amendments or revision. For undated references the latest edition of the publication referred to apply.

BS 476-12:1991, *Method of test for ignitability of products by direct flame impingement*.

BS 2576:1986, *Method for determination of breaking strength and elongation (strip method) of woven fabrics*.

BS EN ISO 13468-1:1997, *Single-beam instrument*.

3 Definitions

For the purpose of this British Standard, the following definitions apply.

3.1

containment net

net intended to restrain small objects, or tools and debris, to restrict dust, to reduce the effects of weather, to provide protection for persons from falling objects and to reduce the risk of persons falling from scaffold platforms

3.2

containment sheet

impervious sheet intended to protect a structure from inclement weather, to contain dust and other pollution, to prevent small objects, tools and debris from falling, and to reduce the risk of persons falling from scaffold platforms

3.3

ties

means used to join nets or sheets into larger configurations and to secure them in position

3.4

attachment points

designated points within nets and sheets through which ties can be threaded

3.5

form factor

constant factor, characteristic of each different containment material, relating the wind speed to the wind pressure that would be exerted on the material

4 Tests

4.1 Impact test

The net or sheet and tie shall be tested in accordance with annex A.

4.2 Puncture test

The net or sheet and tie shall be tested in accordance with annex B.

4.3 Tensile strength

The tensile strength of the net or sheet shall be determined in both directions by testing in accordance with BS 2576. Samples for testing shall be cut from the same roll as used for samples tested in annexes A and B.

4.4 Attachment point strength

The tensile strength of the attachment points shall be determined in accordance with BS 2576:1986. Samples for testing shall be cut from the same roll as used for samples tested in annexes A and B. The net or sheet shall be attached to the test apparatus as shown in Figure 1.

4.5 Tie strength

The tensile strength of the ties shall be determined in accordance with BS 2576:1986. Samples for testing shall be of the same type and specification as those used for tests given in annexes A and B. The tie shall be attached to the test apparatus as shown in Figure 2.

5 Performance requirements

5.1 General

The nets or sheets shall meet the following requirements.

- When tested in accordance with annex A, the length of either 50 mm conditioning cut shall not increase in length to more than 100 mm.
- When tested in accordance with annex A and annex B, there shall be no failure, except that described in a).

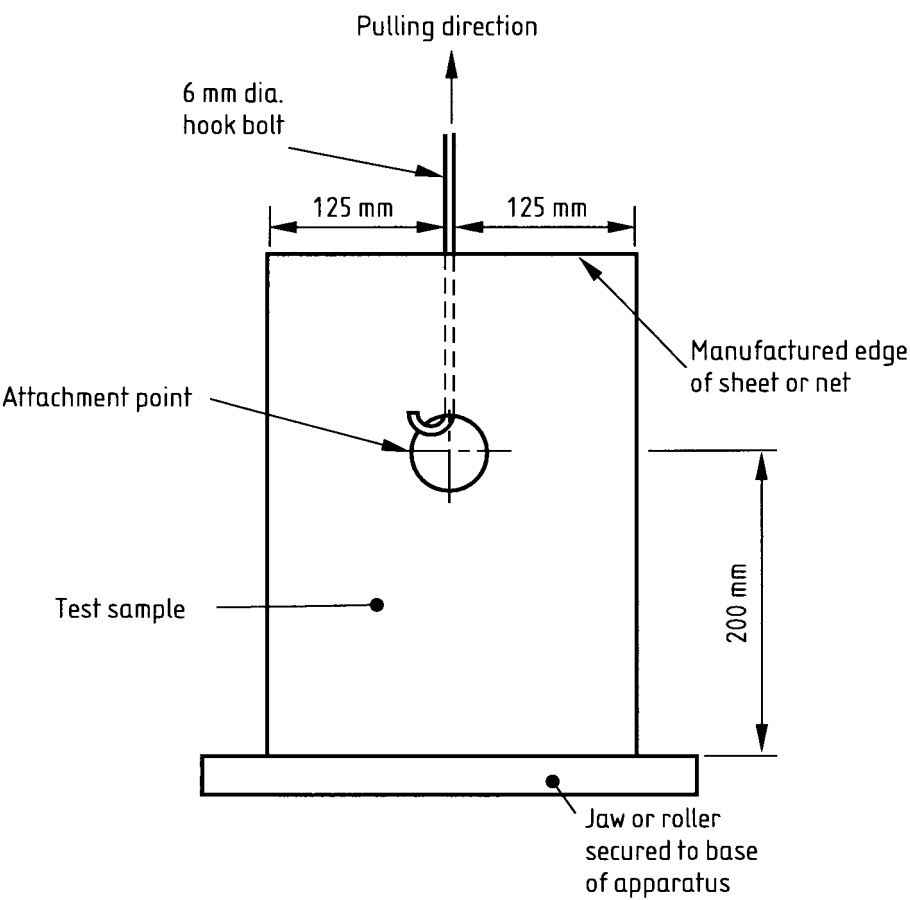


Figure 1 — Attachment point strength test