

Loss Prevention Standard



LPS 1215: ISSUE 3

Requirements for the LPCB Approval and Listing of Scaffold Cladding Materials

This standard describes methods of tests and performance which should help ensure that scaffold cladding materials do not add to the fire risk. The standard does not cover other features required of scaffold cladding materials, such as resistance to wind or rain penetration.

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PARTICIPATING ORGANISATIONS

This standard was prepared by Expert Group D and approved by the LPC Fire and Security Board of BRE Certification Ltd. The following organisations participated in the preparation of this standard:-

Association of British Insurers
 Association of Builders Hardware Manufacturers
 Association of Chief Police Officers
 Association for Specialist Fire Protection
 British Fire Protection Systems Association
 British Security Industry Association
 Chief & Assistant Chief Fire Officers Association
 Door & Shutter Manufacturers' Association
 Electrical Contractors Association
 Health & Safety Executive
 Office of the Deputy Prime Minister
 Police Scientific Development Branch
 Risk Engineering Data Exchange Group
 Royal Institution of Chartered Surveyors
 Special Services Group

REVISION OF LOSS PREVENTION STANDARDS

Loss Prevention Standards will be revised by issue of revised editions or amendments. Details will be posted on our website at www.brecertification.com

Technical or other changes which affect the requirements for the approval or certification of the product or service will result in a new issue. Minor or administrative changes (e.g. corrections of spelling and typographical errors, changes to address and copyright details, the addition of notes for clarification etc.) may be made as amendments.

The issue number will be given in decimal format with the integer part giving the issue number and the fractional part giving the number of amendments (e.g. Issue 3.2 indicates that the document is at Issue 3 with 2 amendments).

USERS OF LOSS PREVENTION STANDARDS SHOULD ENSURE THAT THEY POSSESS THE LATEST ISSUE AND ALL AMENDMENTS.

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FOREWORD

This standard identifies the evaluation and testing practices for the LPCB approval and listing of products. LPCB Listing of life safety and security products for inclusion in the “Red Book” is based on the following

- i. Satisfactory product performance during testing and audit testing
- ii. Satisfactory product construction
- iii. Satisfactory manufacturing processes
- iv. Satisfactory product service experience.

NB:- Compliance with this LPS standard does not in itself confer immunity from legal obligations.

LPCB offers a full range of services for approval and testing. Listed products appear in the LPCB List of Approved Fire and Security Products and Services which may be viewed on our website at www.brecertification.com or obtained in hard copy or CD ROM by contacting us at LPCB, Garston, Herts WD25 9XX.
Tel: +44 (0) 1923 664100, Fax: +44 (0) 1923 664994, E-mail: enquiries@brecertification.co.uk

* NOTE: BRE and BRE Certification are owned by the Foundation for the Built Environment which is a registered charity. The Loss Prevention Certification Board (LPCB) is part of BRE Certification and lists approved products and services within the fire and security sectors.

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1 SCOPE

This standard describes methods of tests and performance requirements with regard to flammability. The requirements set are those which should ensure that scaffold cladding materials such as sheeting and netting used externally during construction, refurbishment or demolition of buildings should not add to the fire risk. The standard does not cover other features required of scaffold cladding materials, such as resistance to wind or rain penetration.

This standard does not cover internal protective coverings for floors, walls and furnishings used during construction or refurbishment of buildings; these are covered in LPS 1207.

2 REQUIREMENTS

The manufacturer of the scaffold cladding material shall supply a completed and full description of the product or products to be tested as follows:

- (a) The colour and type of material from which the product is made.
- (b) A statement on whether it is flexible or stiff sheet.
- (c) If it is single or multi-layered, the thickness and description of each layer.
- (d) The overall thickness and weight (g/m²).
- (e) If it is reinforced, state the reinforcement material and the dimension of the scrim.
- (f) If the material has cavities or indentations, state whether they are continuous and give their dimensions.
- (g) The method of fixing the scaffold cladding to the scaffold.

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3 TEST METHOD

The range of product variations that need to be tested shall be decided by LPCB in consultation with the manufacturer. Testing may include each thickness and colour in the product range. All the flammability tests shall be carried out in essentially draught-free conditions.

3.1 Flammability

3.1.1 Small flame test

Three samples are to be tested for each flame application time on surface and edge.

3.1.1.1 The test shall be as described in BS 476: Part 12: 1991. (Fire tests on building materials and structures - Method of test for ignitability of products by direct flame impingement) The test details specific to these materials are as follows:

- (i) Ignition source: C;
- (ii) Specimen size: 300 x 300mm;
- (iii) Flame application: surface and edge;
- (iv) Flame application time: 5, 10 and 20 seconds.

3.1.1.2 The requirements for the small flame test for any of the samples tested shall be:

- (i) transient ignition: maximum of 10 seconds flaming after flame removal
- (ii) no flaming droplets or flaming debris* 10 seconds after flame removal;
- (iii) no flaming reaching any edge of the specimen during application of the ignition source;
- (iv) spread of flame not to reach the edge of the specimen at any point within the 10 seconds of the end of flame application time.

3.1.2 Medium flame test

3.1.2.1 The test shall be as described in BS 476: Part 12: 1991. Three samples shall be tested at each flame application time on surface and edge. The test details specific to this test are as follows:

- (i) Ignition source: G;
- (ii) Specimen size: 500 x 750mm;
- (iii) Flame application: surface and edge;
- (iv) Flame application time: 20, 40 and 60 seconds.

3.1.2.2 The requirements for the medium flame test on any of the samples tested shall be:

- (i) transient ignition: no flaming after 10 seconds from flame removal;
- (ii) no flaming droplets or flaming debris* 10 seconds after flame removal;

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* For the purposes of this standard, flaming debris shall be taken as any burning material on the floor or base of test equipment.

- (iii) no flaming reaching any edge of the specimen during application of the ignition source;
- (iv) spread of flame not to reach the edge of the specimen at any point within the 10 seconds of the end of flame application time.

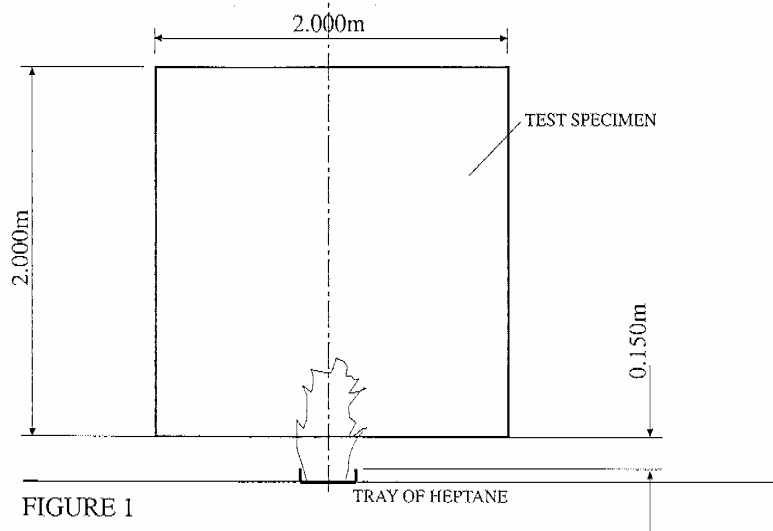


FIGURE 1

3.1.3 Flammable liquid test

Note: This test has been developed by LPC to represent a large ignition source, for example when a flammable liquid is encountered.

3.1.3.1 Test sample

Only one sample of each product needs to be tested. For test purposes the size of the protective scaffold cladding shall not be less than 2m x 2m. The cladding shall be tested in the vertical orientation. The bottom edge shall be positioned 150mm above the top of the tray of fuel. The material for test shall be supported by a suitable arrangement of scaffold tubes and fixed with the manufacturer's recommended fixings.

3.1.3.2 Test method

- (i) Position a tray so that it is below the bottom edge and mid-width of the product and that one half of the tray is on one side of the product and the other on the other side.
- (ii) The tray shall be made from steel 1.6mm thick and be 300mm diameter and 100mm high. It shall be filled with water to a depth of 10mm and then 0.50 litre of heptane shall be added.

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- (iii) Ignite the heptane, start the timing device and record the general behaviour of the material throughout the test, making particular note of the distance of flaming of the material under test if that occurs. Continue the test for at least one minute after the heptane stops burning (approximately 6 minutes).

3.1.3.3 The requirements for the large flame test are:

- (i) transient ignition: maximum of 10 seconds flaming after heptane stops burning
- (ii) no flaming droplets or flaming debris* 10 seconds after heptane stops burning
- (iii) no flaming reaching any edge of the specimen during application of the ignition source;
- (iv) spread of flame not to reach the edge of the specimen at any point within 10 seconds of the end of flame application time.

3.2 Test report

The test report should include details as required in each of the above tests and should also report the results in relation to the requirements for each test. The report shall fully describe the material that was tested (see clause 2, Requirements).

4 MARKING AND LABELLING

LPCB approved scaffold cladding materials shall be suitably marked with the following:

- (i) The name or identification mark of the manufacturer or supplier.
- (ii) A clear statement, in a colour contrasting with the colour of the product, having letters not less than 25mm high: [Product name], LPCB approved to LPS 1215. This statement shall be repeated at regular intervals along the entire length of the roll. The position of the marking shall not be obscured by overlapping sections when fixed according to the manufacturers' recommendations.

For debris netting, these may be identified by two coloured strips on the longer edges, provided the netting is delivered to the building site in a packaging that is fully marked in accordance with the above.

5 PRODUCT AUDIT

The LPCB will take samples of the scaffold sheet materials during their surveillances and arrange for these to be tested. Surveillance shall be undertaken at intervals decided by LPCB but not exceeding one year.

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6 INSTALLATION

LPCB approved products shall only be installed by the manufacturer or his authorised agent. Where this is not possible then full installation instructions shall be supplied with the materials.

7 PUBLICATIONS REFERRED TO

BS 476: Part 12: 1991 : Fire tests on building materials and structures. Part 12: Method of test for ignitability of products by direct flame impingement, British Standards Institution.

LPS 1207 Fire requirements for protective covering materials, Loss Prevention Council, 1994.

For undated references the latest edition of the publication referred to applies.

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Amendments Issued Since Publication

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