

## Loss Prevention Standard

LPS 1214: Issue 2.2

Specification for testing and classifying physical protection devices for personal computers and similar equipment

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### **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.redbooklive.com](http://www.redbooklive.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. (See amendments table on page 10)

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 evaluation and testing practices for the approval and listing of suitable protection devices. Approval is based on the following criteria:

- a) Satisfactory protection device performance and construction, in accordance with the requirements of the certification body and the manufacturer's specifications.
- b) Verification of the establishment and maintenance of the manufacturer's quality management systems in accordance with criteria set by ISO9001: Quality management systems - Requirements).

## NOTES

Compliance with this LPS does not of itself confer immunity from legal obligations. Users of LPSs should ensure that they possess the latest issue and all amendments.

LPCB welcomes comments of a technical or editorial nature and these should be addressed to "the Technical Director" at [enquiries@breglobal.co.uk](mailto:enquiries@breglobal.co.uk).

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## **1 SCOPE**

This standard specifies testing requirements for theft resistant protection devices intended to:

- (i) prevent unauthorized removal of personal computers (PC's), file servers, printers, facsimile machines and other high value equipment.
- (ii) prevent unauthorized removal of or access to PC's, file servers, printers, facsimile machines and other high value equipment or their contents.

The equipment may be designed for either furniture and/or wall / floor fixing.

## **2 DEFINITIONS**

### **2.1 Protection device**

The device for providing theft resistant security.

### **2.2 Security category**

Indication of the degree of resistance of a protection device.

#### **2.3.1 Security category expectation**

The anticipated security category for which the protection device is designed.

### **2.4 Test bed**

Laboratory equipment simulating furniture, wall or floor.

### **2.5 Total test time**

The total time of a manual test including working time, time for changing tools and inspecting the device under test. The total test time excludes any time deemed necessary for health and safety procedures.

### **2.6 Working time**

The aggregate time of an attack test on a protection device.

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### **3 LOCKS**

Only integral mechanical lock(s) shall be used.

Lock(s) shall have a minimum of 5,000 effective differs and mastered key lock(s) shall not reduce the security provided by a minimum of 5,000 effective differs.

Lock mounting screws, nuts and rivets etc. on which the security of the protection device depends shall be concealed when the device is in the locked position.

### **4 INFORMATION TO BE SUPPLIED BY THE APPLICANT**

#### **4.1 General**

Prior to examination and testing an applicant shall furnish comprehensive documentation defining the protection device to be tested. All documents shall be dated and given a reference number and issue description. If the applicant is not the manufacturer then an application must be accompanied by written permission for testing from the manufacturer.

#### **4.2 Data**

The applicant shall supply the following detailed information relating to the protection device to be tested:

- (a) Manufacturing responsibilities:
  - (i) Name of manufacturer.
  - (ii) Place of manufacture.
  - (iii) Year of manufacture.
  - (iv) Relationship of applicant to manufacturer.
  - (v) Company responsible for design and quality assurance.
- (b) A specification of the equipment to be protected including maximum permitted clearances between the equipment and protection device.
- (c) Drawings of the protection device:
  - (i) General assembly.
  - (ii) Parts list or list of drawings for each module / type of protection device.
  - (iii) All drawings must be issue controlled, authorised and include dimensional tolerances.
  - (iv) The location and design of any local areas of special protection.
  - (v) Details of any other element relevant to physical security.
- (d) A description of the materials of construction if not contained on the drawings.

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- (e) Instructions and specification for secure installation and use including limitations and recommendations where applicable. Each document shall be issue controlled.
- (f) Whether the protection device is a prototype or in series production.
- (g) The applicant's security category expectation.

## **5 SPECIMENS TO BE SUPPLIED FOR TESTING**

The number of specimens required for test purposes is subject to a review of the specification documentation and is dependant on the design, type, range of sizes, individual range of adjustment, alternative fixing methods, alternative locks, equipment to be protected and security category expectation.

Not less than three specimens of each distinct model/type will be required. The specimens shall be complete with any associated hardware, lock(s) and specification for secure installation.

Additional specimens of individual components and locks may be required for separate tests or specimen refurbishment purposes.

In addition, the applicant shall supply specimens of the type of equipment to be protected as required.

## **6 EXAMINATION**

### **6.1 Data**

All information and drawings supplied will be reviewed to ensure suitability for testing and approval purposes.

### **6.2 Conformity between specimens and documentation**

Prior to testing all specimens shall be visually examined for conformity with the details supplied by the applicant.

If it is discovered that any specimen does not conform, testing will not be performed until the drawings and documents have been modified or the specimen has been altered by the applicant.

## **7 TESTING PROTOCOL**

General laboratory procedures, confidential handling of specimens, event record requirements and presentation of the test report shall be in accordance with the requirements specified in either EN 45001 or BS EN ISO/IEC 17025:2000.



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## 8 TEST OBJECTIVE AND REQUIREMENTS

### 8.1 Objective

The overall objective is to confirm the security category expectation of a protection device by conducting a series of manual intervention tests.

### 8.2 Requirements

- Security Category I:**
- A protection device shall have met the requirement of this security category if, following testing, it is not possible to remove the equipment from its secured position.
  - The protection device must resist physical attack from one tester with any of the tools specified in clause 9 for a total working time of 3 minutes.
  - A total test time of 15 minutes is allowed.

- Security Category II:**
- The test for this security category will be undertaken in two phases.

#### *Phase I*

- As security category I.

#### *Phase II*

- A protection device will have met the requirements of this phase if during testing it is not possible to:
  - (a) open the door
  - (b) deform the door or penetrate the body to provide an access area of greater than 3000mm<sup>2</sup> with a minimum dimension of 25 mm in any one direction.
- The protection device must resist physical attack from one tester with any of the tools specified in clause 9 for a total working time of 3 minutes.
- A total testing time of 15 minutes will be allowed.

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## **9 TESTING AND TOOLS**

### **9.1 Test procedure**

The test bed shall be either 18mm veneered chipboard with natural finish or a simulated building structure as applicable.

The specimen to be tested shall be mounted on the test bed according to the installation instructions. Where an adhesive is used, testing will not start until the adhesive is cured according to the applicant's installation instructions.

A protection device which is designed to be mounted mechanically or with adhesives or both shall be tested using all mounting configurations.

If a specimen protection device has been damaged during testing such that the result of any subsequent test could be influenced, that specimen shall be replaced.

The protection device can be forced by any method at the discretion of the tester. Tools may be used singly or in combination or not at all (i.e., simple physical pulling by the tester). Tools that break during testing can be replaced by a new tool.

### **9.2 Tools**

1 screwdriver - 7 mm  $\varnothing$  / square x 250 mm long.

1 screwdriver - 14 mm  $\varnothing$  / square x 400 mm long.

1 knife - 250 mm long.

1 lever - 300 mm long.

1 claw-hammer - 350 mm long x 0.7kg.

1 hand drill - 400 mm long x 1.5kg.

1 HSS or carbide drill bit - 6 mm (jobber).

1 junior hacksaw and HSS blades.

1 pipe wrench - 250 mm long.

1 multiple slip joint pliers - 250 mm long.

1 metal tube - 300 mm long.

1 pair bolt-cutters - 350 mm long.

1 cable cutter - 150 mm long.

1 pair metal shears - 200 mm long.

Hooks

Pliers - selection, including self gripping, 150 mm long.

Spanners - selection, 200 mm long.

Hexagon wrenches, selection, 120 mm long.

Wire.

Fishing line (e.g. polypropylene multi fibre).

Wood / plastic wedges.

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## 10 MARKING

Each protection device submitted for test shall be indelibly marked with the manufacturer's / supplier's name or trademark and the type designation.

## 11 PUBLICATIONS REFERRED TO

ISO 9001	Quality management systems – Requirements
EN 45001	General criteria for the operation of testing laboratories.
BS EN ISO/IEC 17025: 2000	General requirements for the competence of testing and calibration laboratories.

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Amendments Issued Since Publication

DOCUMENT NO.	AMENDMENT DETAILS	SIGNATURE	DATE
LPS 1214-2.0	Format and contact details updated by the Loss Prevention Certification Board	RJF	07/06/01
LPS 1214-2.0	Copyright details changed	CJA	12/11/01
LPS 1214-2.0	Further copyright changes	CJA	30/07/02
LPS 1214-2.1	Further copyright changes	CJA	20/09/05
LPS 1214-2.2	<ol style="list-style-type: none"> <li>1. New front cover</li> <li>2. Title added to header</li> <li>3. Contents page moved to Page 1</li> <li>4. Revision of Loss Prevention Standards added on Page 2</li> <li>5. Notes added on Page 3</li> <li>6. Update of references to ISO 9001 standard (Clauses Foreword &amp; 11)</li> <li>7. References to ISO 9002 deleted - this standard has been withdrawn and is replaced by ISO 9001</li> <li>8. Repagination</li> <li>9. Update to copyright information</li> </ol>	DC	Jan. 2014

This standard was prepared by The Loss Prevention Council