

**DRAFT FOR DEVELOPMENT**

# **Fireworks – Selection packs – Specification**

ICS 71.100.30

**This publication is not to be regarded as a British Standard.**

It is being issued in the Draft for Development series of publications and is of a provisional nature. The previous series of British Standards for fireworks, BS 7114-1:1988, BS 7114-2:1988 and BS 7114-3:1988, are cited in The Fireworks (Safety) Regulations 1997 [1], which will remain in force until the provisions of Directive 2007/23/EC, on the placing on the market of pyrotechnic articles [2], are transposed into UK legislation. It should be applied on this provisional basis, so that information and experience of its practical application can be obtained. Manufacturers and suppliers are encouraged to implement those requirements that do not contradict the provisions of BS 7114-2:1988. For the time being, selection packs should still be marked: "Contents conform to BS 7114-2:1988."

A review of this Draft for Development will be carried out not later than 2 years after its publication.

Notification of the start of the review period, with a request for the submission of comments from users of this Draft for Development, will be made in an announcement in the appropriate issue of *Update Standards*.

According to the replies received, the responsible BSI Committee will judge whether the Draft for Development can be converted into a British Standard or what other action should be taken.

Observations which it is felt should receive attention before the official call for comments will be welcomed.

These should be sent to the Secretary of BSI Technical Committee CII/47 at British Standards House, 389 Chiswick High Road, London W4 4AL.

### **Publishing and copyright information**

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## **Summary of pages**

This document comprises a front cover, an inside front cover, pages i to iii, a blank page, pages 1 to 17 and a back cover.

# Foreword

## Publishing information

This Draft for Development is published by BSI and came into effect on 28 September 2007. It was prepared by Technical Committee CII/47, *Fireworks*. A list of organizations represented on this committee can be obtained on request to its secretary.

## Supersession

Together with the parts of BS EN 14035 this Draft for Development supersedes BS 7114-1:1988, BS 7114-2:1988 and BS 7114-3:1988, which have been declared obsolescent.

*NOTE 1 BS 7114-1:1988, BS 7114-2:1988 and BS 7114-3:1988 have not been withdrawn immediately because they are cited in The Fireworks (Safety) Regulations 1997 [1].*

## Relationship with other publications

There is a series of European Standards for fireworks (the EN 14035 series), which are due to be revised in order to support Directive 2007/23/EC on the placing on the market of pyrotechnic articles. There is no corresponding European Standard for selection packs.

*NOTE 2 Certain parts of the EN 14035 series, covering types of firework that are prohibited in the United Kingdom, have been implemented as BSI Published Documents (PD ENs).*

## Information about this document

This Draft for Development is intended to complement the parts of BS EN 14035. Compared to BS 7114-2, it expands the requirements for selection packs considerably. The principal changes are as follows:

- a) the selection packs themselves have been divided into categories (based on the categories of fireworks that they contain);
- b) the types of firework that can be included in each category of selection pack are specified;
- c) requirements for the construction of the selection packs are specified;
- d) the labelling requirements are more comprehensive.

If this Draft for Development is converted to a British Standard it could then be cited in new UK legislation for fireworks, together with the parts of BS EN 14035. When these standards are applied in practice there will be a significant change for users of fireworks. For fireworks in category 2 the distance for spectators will be a minimum of eight metres, instead of the present five metres (as specified in BS 7114-2). Spectator distances will be clearly marked on selection packs, as required in this Draft for Development.

**Presentational conventions**

The provisions of this Draft for Development are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is “shall”.

*Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.*

**Contractual and legal considerations**

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

**Compliance with a Draft for Development cannot confer immunity from legal obligations.**



# Introduction

Selection packs are divided into categories that broadly coincide with the three categories of fireworks that are intended for sale to the public, as defined in BS EN 14035-2. Selection packs containing category 1 fireworks are subdivided into four categories, depending on whether the fireworks are intended for indoor or outdoor use and whether they are hand-held or non-hand-held.

As a general principle, selection packs contain fireworks of one category only. This is because the distance for spectators varies depending on the category of firework (1 m for category 1 fireworks, when relevant, 8 m for category 2 fireworks and 25 m for category 3 fireworks). The exceptions are category 3C and category 3D selection packs, which can contain category 2 rockets in addition to category 3 fireworks. The distance for spectators in these cases is 25 m for all the fireworks in the pack.

*NOTE A category 3C or category 3D selection pack can contain category 3 rockets, as well as category 2 rockets. It could be a pack that contains just rockets in both categories (this would still be a selection pack and not a primary pack because of the mixture of categories).*

## 1 Scope

This Draft for Development specifies requirements for selection packs of fireworks. The selection packs specified are as follows:

- category 1A selection packs, containing indoor, hand-held category 1 fireworks;
- category 1B selection packs, containing indoor, non-hand-held category 1 fireworks;
- category 1C selection packs, containing outdoor, hand-held category 1 fireworks;
- category 1D selection packs, containing outdoor, non-hand-held category 1 fireworks;
- category 2A selection packs, in the form of boxes with reclosable lids and containing category 2 fireworks;
- category 2B selection packs, in the form of transport packages and containing category 2 fireworks;
- category 3A selection packs, in the form of boxes with reclosable lids and containing category 3 fireworks;
- category 3B selection packs, in the form of transport packages and containing category 3 fireworks;
- category 3C selection packs, in the form of boxes with reclosable lids and containing category 3 fireworks and category 2 rockets;
- category 3D selection packs, in the form of transport packages and containing category 3 fireworks and category 2 rockets.

*NOTE Transport packages are packages that are defined in chapter 1.2 of the United Nations Recommendations on the Transport of Dangerous Goods, 14th edition, 2005 [3]. Transport packages are used as outer packages for the supply of fireworks (sold loose) and selection packs (categories 1A, 1B, 1C, 1D, 2A, 3A and 3C) to retailers and as the sole packages (categories 2B, 3B and 3D) for the supply of fireworks direct to the end-user.*

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

BS 6001-1, *Sampling procedures for inspection by attributes – Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

BS EN 14035-1, *Fireworks – Part 1: Terminology*

BS EN 14035-5, *Fireworks – Part 5: Batteries and combinations – Specification and test methods*

BS EN 14035-6, *Fireworks – Part 6: Bengal flames – Specification and test methods*

BS EN 14035-15, *Fireworks – Part 15: Fountains – Specification and test methods*

BS EN 14035-19, *Fireworks – Part 19: Hand-held sparklers – Specification and test methods*

BS EN 14035-22, *Fireworks – Part 22: Mines – Specification and test methods*

BS EN 14035-23, *Fireworks – Part 23: Non-hand-held sparklers – Specification and test methods*

BS EN 14035-25, *Fireworks – Part 25: Party poppers – Specification and test methods*

BS EN 14035-27, *Fireworks – Part 27: Rockets – Specification and test methods*

BS EN 14035-28, *Fireworks – Part 28: Roman candles – Specification and test methods*

BS EN 14035-29, *Fireworks – Part 29: Serpents – Specification and test methods*

BS EN 14035-34, *Fireworks – Part 34: Table bombs – Specification and test methods*

BS EN 14035-35, *Fireworks – Part 35: Throwdowns – Specification and test methods*

BS EN 14035-36, *Fireworks – Part 36: Wheels – Specification and test methods*

BS EN 14035-38, *Fireworks – Part 38: Shot tubes – Specification and test methods*

## 3 Terms and definitions

For the purposes of this Draft for Development the terms and definitions given in BS EN 14035-1 apply.