BS EN 15947-3:2022

BSI Standards Publication

Pyrotechnic articles. Fireworks, Categories F1, F2 and F3

Part 3: Minimum labelling requirements

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National foreword

This British Standard is the UK implementation of EN 15947-3:2022. It supersedes BS EN 15947-3:2015, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee CII/47, Pyrotechnic articles.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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European foreword

This document (EN 15947-3:2022) has been prepared by Technical Committee CEN/TC 212 “Pyrotechnic articles”, the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2023, and conflicting national standards shall be withdrawn at the latest by December 2023.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 15947-3:2015.

In comparison with the previous edition EN 15947-3:2015, the following technical modifications have been made:

— The following new elements shall be included in the label:

  — On selection packs, the highest age limit for the content inside the packs (4.1.1).

  — On selection packs, the total net explosive content of the items inside the packs (4.1.1).

  — For battery and combination, the sub-elements now are listed (4.1.2).

  — The compound firework is labelled in addition to the primary pack (4.1.3).

— Requirement on labelling of very small items has been revised (4.7). The content of the label is dependent on the size of the items.

— Table 1 has been moved to Table A.1.

— The following modifications have been made to “Safety information” in Table A.1:

  — Safety information for firework types “report rocket”, “Bengal flame (hand-held)” and “senko-hanabi” have been added.

  — Safety information “Do not inhale smoke” has been deleted for all firework types.

  — Safety information for “banger” and “flash banger” has been revised.

  — Safety information for “banger” and “flash banger” with preliminary effect(s) has been revised.

  — Safety information “ENSURE THAT NO PART OF THE BODY IS POSITIONED ABOVE THE FIREWORK OR IN THE EFFECT DIRECTION (if possible)” is now applicable to: battery, battery requiring external support, combination, combination requiring external support, compound firework, mine, Roman candle and shot tube.

  — Minimum safety distances are changed in the “Safety information” so that they are consistent with the Directive 2013/29/EU.

  — Instructions for use have been updated for compound firework with respect to compound firework with more than two fuses.

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This document has been prepared under a Standardization Request (M/583) concerning pyrotechnic articles given to CEN by the European Commission and the European Free Trade Association, and supports Essential Safety requirements of Directive 2013/29/EU.

For relationship with Directive 2013/29/EU, see informative Annex ZA, which is an integral part of this document.

This document is one of the series of standards as listed below:

— EN 15947-1, *Pyrotechnic articles — Fireworks, Categories F1, F2 and F3 — Part 1: Terminology*

— EN 15947-2, *Pyrotechnic articles — Fireworks, Categories F1, F2 and F3 — Part 2: Categories and types of firework*

— EN 15947-3, *Pyrotechnic articles — Fireworks, Categories F1, F2 and F3 — Part 3: Minimum labelling requirements*

— EN 15947-4, *Pyrotechnic articles — Fireworks, Categories F1, F2 and F3 — Part 4: Test methods*

— EN 15947-5, *Pyrotechnic articles — Fireworks, Categories F1, F2 and F3 — Part 5: Requirements for construction and performance*

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

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1 Scope

This document specifies minimum labelling requirements for fireworks and primary and selection packs of fireworks. It is applicable to fireworks of the categories F1, F2 and F3 as defined by Article 6 Paragraph (1) clause (a) subclause (i) to (iii) of Directive 2013/29/EU.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

EN 15947-1:2022, *Pyrotechnic articles — Fireworks, Categories F1, F2 and F3 — Part 1: Terminology*

EN 15947-2:2022, *Pyrotechnic articles — Fireworks, Categories F1, F2 and F3 — Part 2: Categories and types of firework*

EN 15947-4:2022, *Pyrotechnic articles — Fireworks, Categories F1, F2 and F3 — Part 4: Test methods*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 15947-1:2022 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— IEC Electropedia: available at https://www.electropedia.org/

— ISO Online browsing platform: available at https://www.iso.org/obp/ui

4 Minimum labelling requirements

4.1 General and specific labelling requirements

4.1.1 General labelling requirements

If more than one language is used for labelling, for each language, the specified information in Article 10 of the Directive 2013/29/EU and in this document shall be presented as a whole and shall not be interrupted by other text. Additional text shall not conflict with the specified information.

For battery, battery requiring external support, combination, combination requiring external support and compound firework the label shall not be fixed on the top of the effect tubes or the bottom of the firework. This does not apply to a primary pack.

Conformity to these requirements specified in 4.1 to 4.8 shall be verified by visual examination.

NOTE Directive 2013/29/EU requires fireworks shall be labelled with the information given in Article 10 of that Directive. Directive 2014/58/EU requires fireworks shall also be labelled with the registration number prescribed in Article 1 of that Directive.

4.1.1.1 Fireworks

Fireworks shall be labelled in accordance with 4.2 to 4.8 and, if applicable, with the additional information specified in 4.1.2 and 4.1.3.

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4.1.1.2 Primary packs

Primary packs shall be labelled in accordance with 4.6 and with the following information:

— the total net explosive content of the fireworks in the pack; and

— the statement: “Must be sold as packaged”.

If the firework does not provide enough space for the required information (see Article 10 (5) of Directive 2013/29/EU) or labelling is not possible on account of the nature of the firework, the firework shall be supplied in a primary pack and the primary pack shall be labelled in accordance with 4.1.1.1.

4.1.1.3 Selection packs

Selection packs shall be labelled with the printing size as specified in 4.6 and with:

— the highest category of the fireworks in the pack, e.g. “CAT F3”;

— the highest age limit for the fireworks in the pack;

— the total net explosive content of all fireworks in the pack; and

— the statement: “Must be sold as packaged”.

4.1.2 Specific labelling requirements for battery, battery requiring external support, combination and combination requiring external support

For battery, battery requiring external support, combination and combination requiring external support equipped with two initial fuses, the reserve fuse shall be clearly labelled with the words “RESERVE FUSE”.

In addition to the type of firework (4.2), the labelling shall include the type of firework for all contained elements; e.g. “Battery (shot tube)”, “Combination (shot tube, mine)” or “Combination of shot tube and fountain”.

4.1.3 Specific labelling requirements for compound firework

The compound firework and the primary pack shall be labelled. The label on the primary pack shall identify all firework types which the compound firework is comprised of. For compound firework with one or more reserve fuses, all reserve fuses shall be clearly labelled with the words “RESERVE FUSE”.

4.2 Name and type of firework, category, CE marking

The name of the firework shall not conflict with the principal effects of the relevant type of firework or with the name of other types of fireworks.

The type of firework shall be labelled, in upper case, in conformity with EN 15947-2:2022, Clause 6. For Roman candle the number of shots shall be labelled, e.g. “8 SHOT ROMAN CANDLE”.

The category shall be labelled, in upper case, e.g. “CATEGORY F2” or “CAT F2”.

NOTE 1 The CE marking is subject to the general principles set out in Article 30 of Regulation (EC) No 765/2008.

NOTE 2 According to Art. 20(3) of Directive 2013/29/EU, CE marking shall be followed by the identification number of the Notified Body responsible for:

— monitoring the existing quality system (in case of Modules D and E), or

— checking conformity to type according to Module C2.

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4.3 Minimum age limits

Firework shall be labelled with the following minimum age limits according to Directive 2013/29/EU, Art. 7 paragraph 1. a

— Category F1: 12 years;

— Category F2: 16 years;

— Category F3: 18 years.

In cases where the individual Member State has modified these age limits according to Directive 2013/29/EU Art. 7 paragraph 2, the individual national age limits are to be labelled instead.

4.4 Year of production

For category F3 fireworks, the year of production shall be expressed by four digits, e.g. “2018”.

4.5 Safety information

Safety information shall be emphasized by use of a heading, bold type, italic or underlined.

The labelling shall include at least all applicable safety information specified in Table A.1, in a logical sequence, for the relevant type of firework. The appropriate placing instructions, selected from those specified in Table A.1, shall replace

“< *placing instructions* >”

where indicated.

4.6 Printing

When measured in accordance with EN 15947-4:2022, 6.7.2, the type sizes shall be such that the height of the character “X” (in upper case) is at least 2,8 mm for the information on fireworks type and category (4.2), safety information (4.5), additional information on the primary pack (4.1.1.2) and the selection pack (4.1.1.3), and at least 2,1 mm for the other information.

4.7 Labelling of very small items

If the firework does not provide enough space for the required information, the firework shall be labelled at least with the CE marking according to 4.2, the registration number and the name of the manufacturer or the name of the importer.

If the firework is too small to bear the above-mentioned three labelling elements, it shall be labelled with the CE marking according to 4.2.

4.8 Disposal and storage

All European regulations (e.g. CLP Regulation (EC) 1272/2008) and national regulations of the respective Member State(s) shall be followed.

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Annex A
(normative)

Safety information

Table A.1 — Safety information

Fireworks type	Variety	Category	Instructions for use to be included on the label	Placing instructions
aerial wheel		F3	'For outdoor use only' 'Minimum safety distance: 15 m' 'Avoid overhead obstructions' *<placing instructions>* 'Remove fuse cover' *(if applicable)* 'Standing sideways, light fuse at its outermost end and retire immediately at least 15 m' 'Spectators must be at least 25 m away'	'Place the correct way up on launching device provided'
banger		F2	'For outdoor use only' 'Minimum safety distance: 8 m' 'This firework has preliminary effect(s) of *[description of the effect(s)]* prior to report' *(if applicable)* 'Remove fuse cover' *(if applicable)* 'Spectators must be at least 8 m away' '*<placing instructions>*, light fuse at its outermost end and retire immediately at least 8 m' *or* 'Standing sideways, *<placing instructions>*, light ignition head and retire immediately at least 8 m' *or* 'Ignite on the striking surface, *<placing instructions>* and retire immediately at least 8 m' *(whichever is appropriate)*	'Place singly on the ground '

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Fireworks type	Variety	Category	Instructions for use to be included on the label	Placing instructions
banger		F3	'For outdoor use only' 'Minimum safety distance: 15 m' 'This firework has preliminary effect(s) of *[description of the effect(s)]* prior to report' *(if applicable)* 'Remove fuse cover' *(if applicable)* 'Spectators must be at least 25 m away' '*<placing instructions>,* light fuse at its outermost end and retire immediately at least 15 m' *or* 'Standing sideways, *<placing instructions>,* light ignition head and retire immediately at least 15 m' *or* 'Ignite on the striking surface, *<placing instructions>* and retire immediately at least 15 m' *(whichever is appropriate)*	'Place singly on the ground '
battery	with one fuse	F2	'For outdoor use only' 'Minimum safety distance: 8 m' 'Avoid overhead obstructions' *(if applicable)* *For battery where the tubes are placed at an angle:* 'Do not fire near tall buildings, trees or similar' 'Remove fuse cover' *(if applicable)* *<placing instructions>* 'ENSURE THAT NO PART OF THE BODY IS POSITIONED ABOVE THE FIREWORK OR IN THE EFFECT DIRECTION *(if possible)*, standing sideways, light fuse at its outermost end and retire immediately at least 8 m' 'Spectators must be at least 8 m away' *An arrow indicating firing direction shall be part of the label (if applicable).*	'Place battery on flat ground'

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Fireworks type	Variety	Category	Instructions for use to be included on the label	Placing instructions
battery	with one fuse	F3	'For outdoor use only' 'Minimum safety distance: 15 m' 'Avoid overhead obstructions' *(if applicable)* 'Do not fire near tall buildings, trees or similar' *(if applicable)* 'Remove fuse cover' *(if applicable)* *<placing instructions>* 'ENSURE THAT NO PART OF THE BODY IS POSITIONED ABOVE THE FIREWORK OR IN THE EFFECT DIRECTION *(if possible)*, standing sideways, light fuse at its outermost end and retire immediately at least 15 m' 'Spectators must be at least 25 m away' *An arrow indicating firing direction shall be part of the label (if applicable).*	'Place battery on flat ground'
battery	with two fuses	F2	'This firework contains two fuses' 'For outdoor use only' 'Minimum safety distance: 8 m' 'Avoid overhead obstructions' *(if applicable)* *For battery where the tubes are placed at an angle:* 'Do not fire near tall buildings, trees or similar' 'Identify fuse and remove fuse cover' *(if applicable)* *<placing instructions>* 'ENSURE THAT NO PART OF THE BODY IS POSITIONED ABOVE THE FIREWORK OR IN THE EFFECT DIRECTION *(if possible)*, standing sideways, light fuse at its outermost end and retire immediately at least 8 m' 'If the firework fails to function completely, wait 15 min before returning to the firework and then locate the reserve fuse and repeat the lighting procedure above'	'Place battery on flat ground'

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Fireworks type	Variety	Category	Instructions for use to be included on the label	Placing instructions
			'Spectators must be at least 8 m away' *An arrow indicating firing direction shall be part of the label (if applicable).*	
battery	with two fuses	F3	'This firework contains two fuses' 'For outdoor use only' 'Minimum safety distance: 15 m' 'Avoid overhead obstructions' *(if applicable)* 'Do not fire near tall buildings, trees or similar' *(if applicable)* 'Identify fuse and remove fuse cover' *(if applicable)* *<placing instructions>* 'ENSURE THAT NO PART OF THE BODY IS POSITIONED ABOVE THE FIREWORK OR IN THE EFFECT DIRECTION *(if possible)*, standing sideways, light fuse at its outermost end and retire immediately at least 15 m' 'If the firework fails to function completely, wait 15 min before returning to the firework and then locate the reserve fuse and repeat the lighting procedure above' 'Spectators must be at least 25 m away' *An arrow indicating firing direction shall be part of the label (if applicable).*	'Place battery on flat ground'
battery requiring external support	with one fuse	F2	'For outdoor use only' 'Minimum safety distance: 8 m' 'Avoid overhead obstructions' *(if applicable)* *For battery requiring external support where the tubes are placed at an angle:* 'Do not fire near tall buildings, trees or similar' 'Remove fuse cover' *(if applicable)* *< placing instructions >* 'ENSURE THAT NO PART OF THE BODY IS POSITIONED ABOVE THE FIREWORK OR IN THE EFFECT	*For battery requiring external support to be buried into soft ground or material:* 'Insert firework upright in soft ground or other non-flammable material, e.g. sand' *For battery requiring external support to be fixed to a post:* 'Place battery on flat ground and fix

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