BS EN 15947-3:2015



BSI Standards Publication

Pyrotechnic articles — Fireworks, Categories F1, F2, and F3

Part 3: Minimum labelling requirements



BS EN 15947-3:2015 BRITISH STANDARD

National foreword

This British Standard is the UK implementation of EN 15947-3:2015. It supersedes BS EN 15947-3:2010 which is withdrawn.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 secretary.

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ISBN 978 0 580 87074 3

ICS 71.100.30

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 March 2016.

Amendments/corrigenda issued since publication

Date Text affected

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 15947-3

December 2015

ICS 71.100.30

Supersedes EN 15947-3:2010

English Version

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

Articles pyrotechniques - Artifices de divertissement, Catégories F1, F2 et F3 - Partie 3: Étiquetage minimal Pyrotechnische Gegenstände - Feuerwerkskörper, Kategorien F1, F2 und F3 - Teil 3: Mindestanforderungen an die Kennzeichnung

This European Standard was approved by CEN on 26 September 2015.

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (EN 15947-3:2015) 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of an identical text or by endorsement, at the latest by June 2016, and conflicting national standards shall be withdrawn at the latest by June 2016.

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

This document supersedes EN 15947-3:2010.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

This European Standard 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.

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

1 Scope

This European Standard specifies minimum labelling requirements for the article and primary or selection packaging of fireworks. It is applicable to fireworks in categories F1, F2 and F3 according to EN 15947-2:2015.

2 Normative references

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

EN 15947-1:2015, Pyrotechnic articles — Fireworks, Categories F1, F2 and F3 — Part 1: Terminology

EN 15947-2:2015, Pyrotechnic articles — Fireworks, Categories F1, F2 and F3 — Part 2: Categories and types of firework

EN 15947-4:2015, 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 15947-1:2015 apply.

4 Minimum labelling requirements

4.1 General and specific labelling requirements

4.1.1 General labelling requirements

Fireworks shall be marked in accordance with 4.9 and 4.10, with the information specified in 4.1.2 and 4.1.3 (if applicable) and 4.2 to 4.8.

Primary packs, if any, shall be marked with the information specified in 4.2 to 4.8 and 4.10.

For the following fireworks, where the use of a primary pack is mandatory, the marking shall be applied solely to the primary pack:

_	Bengal sticks;
_	Christmas crackers;
_	compound fireworks;
_	crackling granules;
_	flash pellets;
_	hand-held snarklers

jumping crackers;

— Bengal matches;

_	non-hand-held sparklers;
_	novelty matches;
_	serpents;
_	snaps;
_	throwdowns.

The specified information shall be given in the official language(s) of the country in which the fireworks or primary packs are offered for retail sale. For each language, it shall be presented as a whole and shall not be interrupted by other text. Additional text given in another language shall not conflict with the specified information.

Conformity to these requirements specified in 4.1 to 4.10 shall be verified by visual examination.

4.1.2 Specific labelling requirement for batteries, batteries requiring external support, combinations and combinations requiring external support

For batteries, batteries requiring external support, combinations and combinations requiring external support equipped with two initial fuses the reserve fuse shall be clearly marked with the words "RESERVE FUSE".

4.1.3 Specific labelling requirements for compound fireworks

The compound fireworks shall be labelled on the primary pack according to the requirements of 4.2 to 4.10. The label of the primary pack shall identify all included articles used in the compound fireworks according to 4.2. For compound fireworks with two initial fuses the reserve fuse shall be clearly marked with the words "RESERVE FUSE".

Fireworks which are assembled in compound fireworks shall not be labelled with the information according to 4.3 and the safety information according to 4.6.

4.2 Type of firework, category, CE marking and registration number

The type of firework shall be marked, in upper case, in conformity with EN 15947-2:2015. If a trade name is used in addition to the type name, it shall not conflict with the principal effects of the relevant type of firework or with the name of another type of firework. For Roman candles the number of shots shall be marked, e.g. "8 SHOT ROMAN CANDLE".

The category shall be marked, in upper case, as "CATEGORY F2" or "CAT F2", for example.

The registration number for tracing of products shall be marked in accordance with the example below:

XXXX - YY - ZZZZ...

where XXXX refers to the registration number of the notified body issuing the certificate, YY refers to the category of firework in abbreviated format (F1, F2, or F3 for category F1, F2, or F3 respectively), and where ZZZZ is a processing number used by the notified body.

According to Regulation (EC) No 765/2008 the CE marking shall be applied to the label. The minimum height of the CE marking shall be 5 mm.

According to Directive 2013/29/EU Art. 8(2) and 20(3) CE-marking is followed by the identification number of the Notified Body responsible for:

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

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 checking conformity to type according to Module C2 (where the notified body intervened during the manufacturing phase).

Selection packs containing one or more categories shall be marked with the highest category in the pack, e.g. "CAT F3".

NOTE Directive 2013/29/EU Art. 10 requires further labelling of pyrotechnic articles other than pyrotechnic articles for vehicles.

4.3 Minimum age limits

The minimum age limits applicable in the country in which the fireworks are offered for retail sale shall be clearly stated on the label. The following minimum age limits apply, if the individual Member State has not raised these age limits according to Directive 2013/29/EU Art. Seven [2].

The following minimum age limits apply:

Category F1: 12 years;

Category F2: 16 years;

Category F3: 18 years.

4.4 Net explosive content

The labelling shall include the net explosive content of the firework.

For fireworks, where the use of a primary pack is mandatory (see 4.1.1) and for fireworks not labelled completely with the information specified in 4.2 to 4.7 the total net explosive content of the items in the primary pack shall be given on the primary pack.

The abbreviation for the net explosive content (NEC) may be used for the labelling.

4.5 Year of production

For category F3 fireworks the year of production shall be clearly stated on the bottom right hand corner of the label, either by four or by two digits, e.g. "2015" or "15".

4.6 Safety information

The labelling shall include at least the safety information specified in Table 1, in a logical sequence, for the relevant type of firework. If necessary, instructions in addition to those specified in Table 1 may be given. The appropriate placing instructions, selected from those specified in Table 1, shall replace

"< placing instructions >"

where indicated.

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

4.7 Details of manufacturer or importer

Labelling shall include the name and the address of the manufacturer.

If the manufacturer is not established in the European Union the labelling shall include the name of the manufacturer and the name and address of the importer.

The address shall comprise at least the town and the country.

4.8 Printing

Labelling shall be clearly visible, easily legible, indelible and on a contrasting background colour. Printing errors which are not misleading are not classified as faults. When measured in accordance with EN 15947-4:2015, 6.7, 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 (4.6) and additional information (4.10) on the primary pack, if applicable, and at least 2,1 mm for the other information.

4.9 Marking of very small items

If the firework does not provide enough space for the specified information using the type sizes specified in 4.8, for the information on name and category and safety information, the type size shall be reduced to 2,1 mm. If the firework does not provide enough space to carry all the specified information even in reduced type size, at least the information on the manufacturer or, if the manufacturer is not established in the European Union, the importer shall be given on the firework.

4.10 Additional information

If the firework is not labelled completely with the information specified in Table 1, or if the primary pack acts as protection for the initial fuses, the firework shall be sold only in a primary pack. The primary pack shall be marked with the statement: "Must be sold as packaged". If the selection pack acts as protection for initial fuse(s) it shall be marked with the statement: "Must be sold as packaged". This statement shall appear adjacent to the type name or category. For printing 4.8 applies.

 ${\bf Table~1-Safety~information}$

Fireworks type	Category F	Minimum labelling requirements	Placing instructions
aerial wheels	3	'For outdoor use only'	
		'Avoid overhead obstructions'	
		'Place singly on launching device provided the correct way up'	
		'Remove orange 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'	
bangers	2	'For outdoor use only'	
		'Remove orange fuse cover' (if applicable)	
		'Place singly on ground and light fuse at its outermost end and retire immediately at least 8 m $^\prime, \textit{or}$	
		'Standing sideways, light ignition head and retire immediately at least 8 m' $\it or$	
		'Ignite on the striking surface, place banger on the ground and retire immediately at least 8 m' (whichever is appropriate)	
	3	'For outdoor use only'	
		'Remove orange fuse cover' (if applicable)	
		'Place singly on ground and light fuse at its outermost end and retire immediately at least 15 m ' $\it or$	
		'Standing sideways, light ignition head and retire immediately at least 15 m' $\it or$	
		'Ignite on the striking surface, place banger on the ground and retire immediately at least 15 m' (whichever is appropriate)	
		'Spectators must be at least 25 m away'	
batteries (with	2	'For outdoor use only'	
one fuse)		'Avoid overhead obstructions' (if applicable)	
		For batteries where the tubes are placed at an angle:	
		'Do not fire near tall buildings, trees or similar'	
		'Remove orange fuse cover' (if applicable)	
		'Place battery on flat ground'	
		'Standing sideways, light fuse at its outermost end and retire immediately at least 8 m"	
		An arrow indicating firing direction shall be part of the label (if applicable).	

Fireworks type	Category F	Minimum labelling requirements	Placing instructions
batteries (wit	h 3	'For outdoor use only'	
one fuse)		'Avoid overhead obstructions' (if applicable)	
		'Do not fire near tall buildings, trees or similar' (if applicable)	
		'Remove orange fuse cover' (if applicable)	
		'Place battery on flat ground'	
		'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).	
batteries (wit	h 2	'This firework contains two fuses'	
two fuses)		'For outdoor use only'	
		'Avoid overhead obstructions' (if applicable)	
		For batteries where the tubes are placed at an angle:	
		'Do not fire near tall buildings, trees or similar'	
		'Identify first fuse and remove orange fuse cover' (if applicable)	
		'Place battery on flat ground'	
		'Standing sideways, light fuse at its outermost end and retire immediately at least 8 m'	
		'In the event that the firework fails to function completely, wait 15 min before returning to the firework and then	
		ENSURING THAT NO PART OF THE BODY IS POSITIONED ABOVE THE FIREWORK, locate the reserve fuse and standing sideways, light fuse at its outermost end and retire immediately at least 8 m'	
		An arrow indicating firing direction shall be part of the label (if applicable).	

Fireworks type	Category F	Minimum labelling requirements	Placing instructions
batteries (with two fuses)		Minimum labelling requirements 'This firework contains two fuses' 'For outdoor use only' 'Avoid overhead obstructions' (if applicable) 'Do not fire near tall buildings, trees or similar' (if applicable) 'Identify first fuse and remove orange fuse cover' (if applicable) 'Place battery on flat ground'	Placing instructions
		'Standing sideways, light fuse at its outermost end and retire immediately at least 15 m' 'In the event that the firework fails to function completely, wait 15 min before returning to the firework and then ENSURING THAT NO PART OF THE BODY IS POSITIONED ABOVE THE FIREWORK, locate the reserve fuse and 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	
batteries requiring external support (with one fuse)	2	part of the label (if applicable). 'For outdoor use only' 'Avoid overhead obstructions' (if applicable) For batteries requiring external support where the tubes are placed at an angle: 'Do not fire near tall buildings, trees or similar' 'Remove orange fuse cover' (if applicable) < placing instructions > 'Standing sideways, light fuse at its outermost end and retire immediately at least 8 m" An arrow indicating firing direction shall be part of the label (if applicable).	For batteries requiring external support to be buried into soft ground or material: 'Insert article upright in soft ground or other non-flammable material, e.g. sand'. For batteries requiring external support to be fixed to a post: 'Place battery on flat ground and fix article firmly and upright to a solid post' 'Ensure top of article clears post' For batteries requiring external support to be supported by heavy objects e.g. sand bags: 'Place battery on flat ground and closely surround article with heavy objects on all sides.' For batteries requiring external support supplied with a special holding device, or for which particular instructions are necessary, the manufacturer or importer shall provide appropriate instructions

Fireworks type	Category F	Minimum labelling requirements	Placing instructions
batteries	3	'For outdoor use only'	(see placing instructions for category F2
requiring external support (with one fuse)		'Avoid overhead obstructions' (if applicable)	batteries requiring external support)
		'Do not fire near tall buildings, trees or similar' (if applicable)	
		'Remove orange fuse cover' (if applicable)	
		< placing instructions >	
		'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).	
batteries	2	'This firework contains two fuses'	For batteries requiring external support to
requiring external support		'For outdoor use only'	be buried into soft ground or material:
(with two fuses)		'Avoid overhead obstructions' (if applicable)	'Insert article upright in soft ground or other non-flammable material, e.g. sand'.
		For batteries requiring external support where the tubes are placed at an angle:	For batteries requiring external support to be fixed to a post:
		'Do not fire near tall buildings, trees or similar'	'Place battery on flat ground and fix article firmly and upright to a solid post'
		'Identify first fuse and remove orange fuse cover' (if applicable)	'Ensure top of article clears post'
		< placing instructions >	For batteries requiring external support to be supported by heavy objects e.g. sand
		'Standing sideways, light fuse at its outermost end and retire immediately at least 8 m'	bags:
		'In the event that the firework fails to function completely, wait 15 min before returning to the firework and then	'Place battery on flat ground and closely surround article with heavy objects on all sides.'
		ENSURING THAT NO PART OF THE BODY IS POSITIONED ABOVE THE FIREWORK, locate the reserve fuse and standing sideways, light fuse at its outermost end and retire immediately at least 8 m'	For batteries requiring external support supplied with a special holding device, or for which particular instructions are necessary, the manufacturer or importer shall provide appropriate instructions
		An arrow indicating firing direction shall be part of the label (if applicable).	

Fireworks type	Category F	Minimum labelling requirements	Placing instructions
batteries	3	'This firework contains two fuses'	(see placing instructions for category F2
requiring external support		'For outdoor use only'	batteries requiring external support)
(with two fuses)		'Avoid overhead obstructions' (if applicable)	
		'Do not fire near tall buildings, trees or similar' (if applicable)	
		'Identify first fuse and remove orange fuse cover' (if applicable)	
		< placing instructions >	
		'Standing sideways, light fuse at its outermost end and retire immediately at least 15 $\mbox{\ensuremath{m^{\prime}}}$	
		'In the event that the firework fails to function completely, wait 15 min before returning to the firework and then	
		ENSURING THAT NO PART OF THE BODY IS POSITIONED ABOVE THE FIREWORK, locate the reserve fuse and 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).	
Bengal flames	1	'For outdoor use only'	For Bengal flames to be placed flat on the
		'Remove orange fuse cover' (if applicable)	ground:
		'Do not inhale smoke'	'Place Bengal flame flat on the ground'.
		< placing instructions >	For Bengal flames to be buried into soft ground or material:
		'Standing sideways, light fuse at its outermost end and retire immediately at least 1 m', $\it or$	'Insert Bengal flame upright in soft ground or other non-flammable material, e.g. sand'.
		'Standing sideways, light ignition head and retire immediately at least 1 m' $\it or$	For Bengal flames supplied with a special holding device, or for which particular
		'Standing sideways, light sealing paper and retire immediately at least 1 m' (whichever is appropriate)	
	2	'For outdoor use only'	
		'Remove orange fuse cover' (if applicable)	
		'Do not inhale smoke'	
		< placing instructions >	
		'Standing sideways, light fuse at its outermost end and retire immediately at least 8 m', $\it or$	
		'Standing sideways, light ignition head and retire immediately at least 8 m' (whichever is appropriate)	

Fireworks type	Category F	Minimum labelling requirements	Placing instructions
Bengal flames	3	'For outdoor use only'	(see placing instructions for category F1 and
		'Remove orange fuse cover' (if applicable)	F2 Bengal flames)
		'Do not inhale smoke'	
		< placing instructions >	
		'Standing sideways, light fuse at its outermost end and retire immediately at least 15 m', or	
		'Standing sideways, light ignition head and retire immediately at least 15 m ' (whichever is appropriate)	
		'Spectators must be at least 25 m away'	
Bengal matches	1	'Ignite on the striking surface'	
		'Use singly'	
		'Use only above non-flammable surface'	
		'Do not carry Bengal matches loose in the pocket'	
Bengal sticks	1	'For outdoor use only'	
		Use singly'	
		'Light one Bengal stick at time at its outermost end'	
		'Do not use in windy conditions'	
		'Hold horizontally'	
		Keep Bengal stick away from any part of the body and flammable materials'	
		Do not inhale smoke'	
Bengal sticks	2	'For outdoor use only'	
		'Use singly'	
		'Light one Bengal stick at time at its outermost end'	
		'Do not use in windy conditions'	
		'Hold horizontally'	
		'Keep Bengal stick away from any part of the body and flammable materials'	
		'Do not inhale smoke'	
Christmas	1	'Do not pull near eyes or ears'	
crackers		'Pull both ends at arms length firmly and sharply'	
		'Do not remove snap'	1

Fireworks type	Category F	Minimum labelling requirements	Placing instructions
combinations	2	'For outdoor use only'	
(with one fuse)		'Avoid overhead obstructions' (if applicable)	
		For combinations where the tubes are placed at an angle:	
		'Do not fire near tall buildings, trees or similar'	
		'Remove orange fuse cover' (if applicable)	
		'Place combination on flat ground'	
		'Standing sideways, light fuse at its outermost end and retire immediately at least 8 m"	
		An arrow indicating firing direction shall be part of the label (if applicable).	
combinations	3	'For outdoor use only'	
(with one fuse)		'Avoid overhead obstructions' (if applicable)	
		'Do not fire near tall buildings, trees or similar' (if applicable)	
		'Remove orange fuse cover' (if applicable)	
		'Place combination on flat ground'	
		'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).	
combinations	2	'This firework contains two fuses'	
(with two fuses)		'For outdoor use only'	
		'Avoid overhead obstructions' (if applicable)	
		For combinations where the tubes are placed at an angle:	
		'Do not fire near tall buildings, trees or similar'	
		'Identify first fuse and remove orange fuse cover' (if applicable)	
		'Place combination on flat ground'	
		'Standing sideways, light fuse at its outermost end and retire immediately at least 8 m'	
		'In the event that the firework fails to function completely, wait 15 min before returning to the firework and then	
		ENSURING THAT NO PART OF THE BODY IS POSITIONED ABOVE THE FIREWORK, locate the reserve fuse and standing sideways, light fuse at its outermost end and retire immediately at least 8 m'	
		An arrow indicating firing direction shall be part of the label (if applicable).	

Fireworks type	Category F	Minimum labelling requirements	Placing instructions
combinations	3	'This firework contains two fuses'	
(with two fuses)		'For outdoor use only'	
		'Avoid overhead obstructions' (if applicable)	
		'Do not fire near tall buildings, trees or similar' (if applicable)	
		'Identify first fuse and remove orange fuse cover' (if applicable)	
		'Place combination on flat ground'	
		'Standing sideways, light fuse at its outermost end and retire immediately at least 15 m'	
		'In the event that the firework fails to function completely, wait 15 min before returning to the firework and then	
		ENSURING THAT NO PART OF THE BODY IS POSITIONED ABOVE THE FIREWORK, locate the reserve fuse and 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).	
combinations	2	'For outdoor use only'	For combinations requiring external
requiring external support		'Avoid overhead obstructions' (if applicable)	support to be buried into soft ground or material:
(with one fuse)		For combinations requiring external support where the tubes are placed at an angle:	'Insert article upright in soft ground or other non-flammable material, e.g. sand'.
		'Do not fire near tall buildings, trees or similar'	For combinations requiring external support to be fixed to a post:
		'Remove orange fuse cover' (if applicable)	'Place combination on flat ground and fix
		< placing instructions >	article firmly and upright to a solid post'
			'Standing sideways, light fuse at its outermos end and retire immediately at least 8 m"
		An arrow indicating firing direction shall be part of the label (if applicable).	For combinations requiring external support to be supported by heavy objects e.g. sand bags:
			'Place combination on flat ground and closely surround article with heavy objects on all sides.'
			For combinations supplied with a special holding device, or for which particular instructions are necessary, the manufacturer or importer shall provide appropriate instructions

Fireworks type	Category F	Minimum labelling requirements	Placing instructions	
combinations	3	'For outdoor use only'	(see placing instructions for category F2 combinations requiring external support)	
requiring external support		'Avoid overhead obstructions' (if applicable)		
(with one fuse)		'Do not fire near tall buildings, trees or similar' (if applicable)		
		'Remove orange fuse cover' (if applicable)		
		< placing instructions >		
		'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).		
combinations	2	'This firework contains two fuses'	For combinations requiring external	
requiring external support	t.	'For outdoor use only'	support to be buried into soft ground or material:	
(with two fuses)		'Avoid overhead obstructions' (if applicable)	'Insert article upright in soft ground or	
			For combinations requiring external support where the tubes are placed at an angle:	other non-flammable material, e.g. sand'. For combinations requiring external
		'Do not fire near tall buildings, trees or	support to be fixed to a post:	
		similar' 'Identify first fuse and remove orange fuse cover' (if applicable)	'Place combination on flat ground and fix article firmly and upright to a solid post'	
			'Ensure top of article clears post'	
		< placing instructions >	< placing instructions >	For combinations requiring external
		'Standing sideways, light fuse at its outermost end and retire immediately at least 8 m'	support to be supported by heavy objects e.g. sand bags:	
		'In the event that the firework fails to function completely, wait 15 min before returning to the firework and then	'Place combination on flat ground and closely surround article with heavy objects on all sides.'	
		ENSURING THAT NO PART OF THE BODY IS POSITIONED ABOVE THE FIREWORK, locate the reserve fuse and standing sideways, light fuse at its outermost end and retire immediately at least 8 m'	For combinations requiring external support supplied with a special holding device, or for which particular instructions are necessary, the manufacturer or importer shall provide appropriate	
		An arrow indicating firing direction shall be part of the label (if applicable).	instructions	

Fireworks type	Category F	Minimum labelling requirements	Placing instructions
combinations	3	'This firework contains two fuses'	(see placing instructions for category F2
requiring external support		'For outdoor use only'	combinations requiring external support)
(with two fuses)		'Avoid overhead obstructions' (if applicable)	
		'Do not fire near tall buildings, trees or similar' (if applicable)	
		'Identify first fuse and remove orange fuse cover' (if applicable)	
		< placing instructions >	
		'Standing sideways, light fuse at its outermost end and retire immediately at least 15 m'	
		'In the event that the firework fails to function completely, wait 15 min before returning to the firework and then	
		ENSURING THAT NO PART OF THE BODY IS POSITIONED ABOVE THE FIREWORK, locate the reserve fuse and 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).	
compound	2	'For outdoor use only'	
fireworks (with one fuse)		'Avoid overhead obstructions' (if applicable)	
		'There are delays during functioning.'	
		For compound fireworks where the tubes are placed at an angle:	
		'Do not fire near tall buildings, trees or similar'	
		'Remove orange fuse cover' (if applicable)	
		'Place compound firework on flat ground'	
		'Standing sideways, light fuse at its outermost end and retire immediately at least 8 m"	
		'In the event that the compound firework fails to function completely, wait 15 min before returning to the firework.'	
		An arrow indicating firing direction shall be part of the label (if applicable).	

Fireworks type	Category F	Minimum labelling requirements	Placing instructions
compound	3	'For outdoor use only'	
fireworks (with one fuse)		'Avoid overhead obstructions' (if applicable)	
		'There are delays during functioning.'	
		'Do not fire near tall buildings, trees or similar' (if applicable)	
		'Remove orange fuse cover' (if applicable)	
		'Place compound firework on flat ground'	
		'Standing sideways, light fuse at its outermost end and retire immediately at least 15 m'	
		'Spectators must be at least 25 m away'	
		'In the event that the compound firework fails to function completely, wait 15 min before returning to the firework.'	
		An arrow indicating firing direction shall be part of the label (if applicable).	
compound	2	'This firework contains two fuses'	
fireworks (with two fuses)		'For outdoor use only'	
		'There are delays during functioning.'	
		'Avoid overhead obstructions' (if applicable)	
		For compound fireworks where the tubes are placed at an angle:	
		'Do not fire near tall buildings, trees or similar'	
		'Identify first fuse and remove orange fuse cover' (if applicable)	
		'Place compound firework on flat ground'	
		'Standing sideways, light fuse at its outermost end and retire immediately at least 8 m'	
		'In the event that the firework fails to function completely, wait 15 min before returning to the firework and then ENSURING THAT NO PART OF THE BODY IS POSITIONED ABOVE THE FIREWORK, locate the reserve fuse and standing sideways, light fuse at its outermost end and retire immediately at least 8 m'	
		An arrow indicating firing direction shall be part of the label (if applicable).	

Fireworks type	Category F	Minimum labelling requirements	Placing instructions
compound	3	'This firework contains two fuses'	
fireworks (with two fuses)		'For outdoor use only'	
		'There are delays during functioning.'	
		'Avoid overhead obstructions' (if applicable)	
		'Do not fire near tall buildings, trees or similar' (if applicable)	
		'Identify first fuse and remove orange fuse cover' (if applicable)	
		'Place compound firework on flat ground'	
		'Standing sideways, light fuse at its outermost end and retire immediately at least 15 m'	
		'In the event that the firework fails to function completely, wait 15 min before returning to the firework and then ENSURING THAT NO PART OF THE BODY IS POSITIONED ABOVE THE FIREWORK, locate the reserve fuse and 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).	
crackling	1	'For outdoor use only';	
granules		'Place singly on ground'.	
		'Remove orange fuse cover' (if applicable)	
		'Light fuse at its outermost end and retire immediately at least 1 $\ensuremath{\text{m}}\xspace$.	
	2	'For outdoor use only';	
		'Place singly on ground';	
		'Remove orange fuse cover'; (if applicable)	
		'Light fuse at its outermost end and retire immediately at least 8 $\mbox{m}^{\prime}.$	
double bangers	2	'For outdoor use only'	
		'Remove orange fuse cover' (if applicable)	
		'Place vertically on flat ground and light fuse at its outermost end and retire immediately at least 8 \mbox{m}^{\prime}	
flash bangers	2	'For outdoor use only'	
		'Remove orange fuse cover' (if applicable)	
		'Place singly on ground and light fuse at its outermost end and retire immediately at least 8 \mbox{m}^{\prime}	

Fireworks type	Category F	Minimum labelling requirements	Placing instructions
flash bangers	3	'For outdoor use only'	
		'Remove orange fuse cover' (if applicable)	
		'Place singly on ground and light fuse at its outermost end and retire immediately at least $15\ \mbox{m}^\prime$	
		'Spectators must be at least 25 m away'	
flash pellets	1	'Place singly on non-flammable surface'	
		'Ignite at the edge of the pellet and retire immediately at least 1 m', $\it or$	
		'Light fuse at its outermost end and retire immediately at least 1 m' $\it or$	
		'Light ignition head and retire immediately at least 1 m' (whichever is appropriate)	
	2	'For outdoor use only'	
		'Place singly on ground'	
		'Ignite at the edge of the pellet and retire immediately at least 8 m', $\it or$	
		'Light fuse at its outermost end and retire immediately at least 8 m' $\it or$	
		'Light ignition head and retire immediately at least 8 m' (whichever is appropriate)	
fountains	1	'Remove orange fuse cover' (if applicable)	
(for hand-held use; indoors)		'Light fuse at its outermost end', or	
		'Light ignition head', or	
		'Light sealing paper' (whichever is appropriate)	
		'Hold at arms length and point away from body and other people and flammable materials'	
		(If the handle is an integral part of the body, the handle section shall be in a contrasting colour.)	
fountains	1	'Remove orange fuse cover' (if applicable)	
(for hand-held use; outdoors)		'For outdoor use only'	
, , , , , , , , , , , , , , , , , , , ,		'Ignite on the striking surface', $oldsymbol{or}$	
		'Light fuse at its outermost end', or	
		'Light ignition head' or	
		Light sealing paper' (whichever is appropriate)	
		'Hold at arms length and point away from body and other people'	
		'Do not point into the wind'	

Fireworks type	Category F	Minimum labelling requirements	Placing instructions
fountains	1	'Remove orange fuse cover' (if applicable)	For fountains to be placed on the ground:
(for indoor use)		< placing instructions >	'Place fountain upright on the ground'.
		'Standing sideways, light fuse at its outermost end and retire immediately at least 1 m', $\it or$	For fountains supplied with a special holding device, or for which particular
		'Standing sideways, light ignition head and retire immediately at least 1 m', $\it or$	instructions are necessary, the manufacturer or importer shall provide appropriate instructions.
		'Standing sideways, light sealing paper and retire immediately at least 1 m' (whichever is appropriate)	
fountains	1	'For outdoor use only'	For fountains to be placed on the ground:
(for outdoor use)		'Remove orange fuse cover' (if applicable)	'Place fountain upright on the ground'.
		< placing instructions >	For fountains to be inserted into soft
		'Standing sideways, light fuse at its outermost end and retire immediately at least 1 m', $\it or$	ground or other material: 'Insert fountain upright in soft ground or
		'Standing sideways, light ignition head and retire immediately at least 1 m', $\it or$	other non-flammable material, e.g. sand'. For fountains supplied with a special
		'Standing sideways, light sealing paper and retire immediately at least 1 m' (whichever is appropriate)	holding device, or for which particular instructions are necessary, the manufacturer or importer shall provide appropriate instructions.
	2	'For outdoor use only'	
		'Remove orange fuse cover' (if applicable)	
		< placing instructions >	
		'Standing sideways, light fuse at its outermost end and retire immediately at least 8 m', $\it or$	
		'Standing sideways, light ignition head and retire immediately at least 8 m', $\it or$	
		'Standing sideways, light sealing paper and retire immediately at least $8\mathrm{m}$ ' (whichever is appropriate)	
	3	'For outdoor use only'	
		'Remove orange fuse cover' (if applicable)	
		< placing instructions >	
		'Standing sideways, light fuse at its outermost end and retire immediately at least 15 m'	
		'Spectators must be at least 25 m away'	
ground movers	2	'For outdoor use only'	
		'Place on flat ground with a radius of at least 8 \mbox{m}^{\prime}	
		'Do not hold in the hand'	
		'Remove orange fuse cover' (if applicable)	
		'Standing sideways, light fuse at its outermost end', or	
		'Standing sideways, light ignition head' (whichever is appropriate)	

Fireworks type	Category F	Minimum labelling requirements	Placing instructions
ground spinners	1	'For outdoor use only'	
		'Remove orange fuse cover' (if applicable)'	
		'Place singly on flat ground and light fuse at its outermost end and retire immediately at least 1 \mbox{m}^{\prime}	
	2	'For outdoor use only'	
		'Remove orange fuse cover' (if applicable)'	
		'Place singly on flat ground and light fuse at its outermost end and retire immediately at least $8\ m^{\prime}$	
hand-held	1	'Use singly over non-flammable surface'	
sparklers		'Light one sparkler at a time at its outermost end'	
		'Keep sparkler away from any part of the body and flammable materials'	
		'Do not inhale smoke'	
		'Spent sparkler remains very hot; e.g. place in a bucket of water'	
	2	'For outdoor use only'	
		'Use singly'	
		'Light one sparkler at a time at its outermost end'	
		'Keep sparkler away from any part of the body and flammable materials'	
		'Do not inhale smoke'	
		'Spent sparkler remains very hot, e.g. place in a bucket of water'	
jumping crackers	2	'For outdoor use only'	
		'Remove orange fuse cover' (if applicable)	
		'Use singly'	
		'Place singly on ground and light fuse at its outermost end and retire immediately at least 8 m', or	
		'Place singly on ground and light ignition head and retire immediately at least 8 m' (whichever is appropriate)	
jumping ground	2	'For outdoor use only'	
spinners		'Remove orange fuse cover' (if applicable)	
		'Place singly on flat ground, light fuse at its outermost end and retire immediately at least 8 m'	
		'Warning! Spinner jumps'	
		The top side of the jumping ground spinners shall be marked with 'This side up'	

Fireworks type	Category F	Minimum labelling requirements	Placing instructions
mines	2	'For outdoor use only'	For mines to be placed on flat ground:
		'Avoid overhead obstructions'	'Place mine upright on flat ground'.
		< placing instructions >	For mines to be buried into soft ground:
		'Remove orange fuse cover' (if applicable)	'Bury two-thirds of mine upright in ground'.
		'Standing sideways, light fuse at its outermost end and retire immediately at least 8 m', or	For mines to be fixed to a post:
		'Standing sideways, light ignition head and retire immediately at least 8 m' (whichever is appropriate)	'Fix mine firmly and upright to a solid post' 'Ensure top of mine clears post'.
		An arrow indicating firing direction shall be part of the label (if applicable).	
	3	'For outdoor use only'	(see placing instructions for category F2
		'Avoid overhead obstructions'	mines)
		< placing instructions >	
		'Remove orange fuse cover' (if applicable)	
		'Standing sideways, light fuse at its outermost end and retire immediately at least 15 m', $\it or$	
		'Standing sideways, light ignition head and retire immediately at least 15 m' (whichever is appropriate)	
		'Do not fire near tall buildings, trees or similar'	
		'Spectators must be at least 25 m away'	
		An arrow indicating firing direction shall be part of the label (if applicable).	
mini rocket	2	'For outdoor use only'	
		'Avoid overhead obstructions'	
		'Insert rocket stick into a stable launching device'	
		'Standing sideways, light fuse at its outermost end and retire immediately at least 8 \mbox{m}^{\prime}	
non-hand-held	1	'Use singly over non-flammable surface'	For non-hand-held sparklers supplied with
sparklers		'Place a sparkler in the support provided; do not hold in the hand'	a special holding device, or for which particular instructions are necessary, the manufacturer or importer shall provide
		'Light one sparkler at a time at its outermost end and retire immediately at least 1 \mbox{m}^{\prime}	appropriate instructions.
		'Keep sparkler away from any part of the body and flammable materials'	
		'Do not inhale smoke'	
		'Spent sparkler remains very hot; do not touch'	

Fireworks type	Category F	Minimum labelling requirements	Placing instructions
non-hand-held sparklers	2	'For outdoor use only' 'Use singly' 'Insert a sparkler upright in soft ground or attach it securely to an upright post; do not hold in the hand' 'Light one sparkler at a time at its outermost end and retire immediately at least 8 m' 'Keep sparkler away from any part of the body and flammable materials' 'Do not inhale smoke' 'Spent sparkler remains very hot; do not touch'	(see placing instructions for category F1 non-hand-held sparklers)
novelty matches	1	'Ignite on the striking surface' 'Use singly' 'Use only above non-flammable surface' 'Do not carry novelty matches loose in the pocket'	
party poppers	1	'Keep away from eyes and ears' 'Hold at arms length and point base away from body and not towards people or animals' 'Pull string firmly and sharply'	
rockets	2	'For outdoor use only' 'Avoid overhead obstructions' < placing instructions > 'Remove orange fuse cover' (if applicable) 'Standing sideways, light fuse at its outermost end and retire immediately at least 8 m'	For rockets with a single stick, supplied with a launching tube: 'Insert launching tube in soft ground or fix onto a post and angle slightly away from spectators' 'Insert rocket stick in launching tube' For rockets with a single stick, not supplied
	3	'For outdoor use only' 'Avoid overhead obstructions' < placing instructions > 'Remove orange fuse cover' (if applicable) 'Do not fire near tall buildings, trees or similar' 'Standing sideways, light fuse at its outermost end and retire immediately at least 15 m.' 'Spectators must be at least 25 m away'	with a launching tube: 'Insert rocket stick into a stable launching device'. For rockets with two sticks: 'Insert one of the rocket sticks into a stable launching device'. For rockets with fins or other such means for stabilization of flight and which are intended to be launched from the ground: 'Place rocket vertically on flat ground'. For rockets supplied with a flat-based launcher the manufacturer or importer shall provide appropriate mounting instructions, to be preceded by: 'Place launcher on flat ground or fix onto a post'.

2		
	'For outdoor use only'	For Roman candles to be placed on flat
	'Avoid overhead obstructions'	ground:
	< placing instructions >	'Place Roman candle upright on flat ground'.
	'Remove orange fuse cover' (if applicable)	For Roman candles to be buried into soft
	'Standing sideways, light fuse at its outermost end and retire immediately at least $8\ \mbox{m}'$	ground: 'Bury one-third of the Roman candle
	An arrow indicating firing direction shall be part of the label (if applicable).	upright in ground'. For Roman candles to be inserted in soft
3	'For outdoor use only'	ground:
	'Avoid overhead obstructions'	'Insert Roman candle upright in soft ground or other non-flammable material, e.g. sand'
	< placing instructions >	'Ensure Roman candle will not fall over'
	'Remove orange fuse cover' (if applicable)	For Roman candles to be fixed to a post:
	'Do not fire near tall buildings, trees or	'Fix Roman candle firmly and upright to a
		solid post'
	end and retire immediately at least 15 m'	'Ensure top of Roman candle clears post'.
	'Spectators must be at least 25 m away'	
	An arrow indicating firing direction shall be part of the label (if applicable).	
1	'Place singly on non-flammable surface'	
	'Light fuse at it's outermost end', or	
	'Ignite at the edge of the pellet', ${\it or}$	
	'Light at the tip of the cone' (whichever is appropriate) $\label{eq:cone}$	
	'Do not inhale smoke'	
2	'For outdoor use only'	For shot tubes to be placed on flat ground:
	'Avoid overhead obstructions'	'Place shot tube upright on flat ground'.
	< placing instructions >	For shot tubes to be buried into soft
	'Remove orange fuse cover' (if applicable)	ground:
	'Standing sideways, light fuse at its outermost end and retire immediately at least 8 \mbox{m}^{\prime}	'Bury one-third of the shot tube upright in ground'.
	An arrow indicating firing direction shall be part of the label. (if applicable)	For shot tubes to be inserted in soft ground: 'Insert shot tube upright in soft ground or
3	'For outdoor use only'	other non-flammable material, e.g. sand'
	'Avoid overhead obstructions'	'Ensure shot tube will not fall over'.
	< placing instructions >	For shot tubes to be fixed to a post:
	'Remove orange fuse cover' (if applicable)	'Fix shot tube firmly and upright to a solid post'
	'Do not fire near tall buildings, trees or similar'	'Ensure top of shot tube clears post'.
	'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)	
	2	<pre></pre>

Fireworks type	Category F	Minimum labelling requirements	Placing instructions
snaps	1	'Do not fire near eyes or ears'	
		'Use singly'	
		'Pull strings at arms length firmly and sharply', or	
		'Pull strips at arms length firmly and sharply' (whichever is appropriate)	
		'Do not carry snaps loose in the pocket'	
spinners	2	'For outdoor use only'	
		'Read this label and remove it' (if applicable)	
		'Place singly on flat ground the correct way up and light fuse at its outermost end'	
		'Retire immediately at least 8 m'	
		'Warning! Spinner ascends'	
		The top side of the spinners shall be marked with 'This side up'	
table bombs	1	'Remove orange fuse cover' (if applicable)	
		'Place on non-flammable surface'	
		'Spectators must be at least 1 m away'	
		'Standing sideways, light fuse at its outermost end and retire immediately at least 1 \mbox{m}^{\prime}	
		'Do not use under light fittings'.	
throwdowns	1	'Use one at a time';	
		'Do not throw at or near people or animals'	
		'Throw onto hard ground'	
		'Do not carry throwdowns loose in the pocket'	

Fireworks type	Category F	Minimum labelling requirements	Placing instructions
wheels	2	'For outdoor use only'	For vertical wheels mounted on a post:
		'Remove orange fuse cover' (if applicable)	'Attach securely at a height of
		< placing instructions >	approximately y m to an upright post by means of a nail through the hole. Ensure the
		'Straighten fuse carefully' (if appropriate)	wheel is free to rotate'.
		'Light fuse at its outermost end and retire immediately at least 8 m'	For vertical wheels with a nail supplied: 'Attach securely at a height of
	3	'For outdoor use only'	approximately y m to an upright post by
		'Remove orange fuse cover' (if applicable)	means of the nail supplied through the hole. Ensure the wheel is free to rotate'.
		< placing instructions >	For horizontal wheels mounted on top of a
		'Straighten fuse carefully and attach it to the post' (if appropriate)	post:
		'Light fuse at its outermost end and retire	'Attach securely at a height of approximately y m on top of an upright
		immediately at least 15 m'	post by means of a nail through the hole. Ensure the wheel is free to rotate'.
		'Spectators must be at least 25 m away'	For horizontal wheels with a nail supplied:
			'Attach securely at a height of approximately y m on top of an upright post by means of the nail supplied through the hole. Ensure the wheel is free to rotate'.
			(The recommended mounting height, y, is 1,7 m for category F2 wheels and 2,75 m for category F3 wheels.)

Annex ZA

(informative)

Relationship between this European Standard and the Essential Requirements of EU Directive 2013/29/EU on the harmonization of the laws of the Member States relating to the making available on the market of pyrotechnic articles

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association to provide a means of conforming to Essential Requirements of the New Approach Directive 2013/29/EU on the harmonization of the laws of the Member States relating to the making available on the market of pyrotechnic articles. The Parts 1, 2, 3 and 4 of the European Standard will support Part 5 to fulfil the essential safety requirements of the Directive 2013/29/EU, Annex 1.

Once this standard is cited in the Official Journal of the European Union under that Directive and has been implemented as a national standard in at least one Member State, compliance with the clauses of this standard given in Table ZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding Essential Requirements of that Directive and associated EFTA regulations.

Table ZA.1 — Correspondence between this European Standard and Directive 2013/29/EU on the harmonization of the laws of the Member States relating to the making available on the market of pyrotechnic articles

Clause(s)/subclause(s) of this EN	Essential Safety Requirements (ESRs) of Directive 2013/29/EU	Qualifying Remarks/Notes
4.1 to 4.7 and Table 1	3.h and 3.j	Suitable instructions and operating instructions
4.1.3 and 4.2	5.A.1 Sentence 2	Indication of category

WARNING — Other requirements and other EU Directives may be applicable to the product(s) falling within the scope of this standard.

Bibliography

- [1] Directive 2007/23/EC of the European Parliament and of the Council of 23 May 2007 on the placing on the market of pyrotechnic articles
- [2] Directive 2013/29/EU of the European Parliament and of the Council of 12 June 2013 on the harmonisation of the laws of the Member States relating to the making available on the market of pyrotechnic articles
- [3] Regulation (EC) No 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products and repealing Regulation (EEC) No 339/93





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