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⁽¹⁾ Text with EEA relevance.

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⁽¹⁾ Text with EEA relevance.

II

(Non-legislative acts)

REGULATIONS

COMMISSION IMPLEMENTING REGULATION (EU) 2023/1580

of 31 July 2023

amending for the 338th time Council Regulation (EC) No 881/2002 imposing certain specific restrictive measures directed against certain persons and entities associated with the ISIL (Da'esh) and Al-Qaida organisations

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Council Regulation (EC) No 881/2002 of 27 May 2002 imposing certain specific restrictive measures directed against certain persons and entities associated with the ISIL (Da'esh) and Al-Qaida organisations ⁽¹⁾, and in particular Article 7(1)(a) and Article 7a(5) thereof,

Whereas:

- (1) Annex I to Regulation (EC) No 881/2002 lists the persons, groups and entities covered by the freezing of funds and economic resources under that Regulation.
- (2) On 21 July 2023, the Sanctions Committee of the United Nations Security Council established pursuant to UN Security Council Resolutions 1267(1999), 1989(2011) and 2253(2015) decided to amend two entries in the list of persons, groups and entities to whom the freezing of funds and economic resources should apply.
- (3) Annex I to Regulation (EC) No 881/2002 should therefore be amended accordingly,

HAS ADOPTED THIS REGULATION:

Article 1

Annex I to Regulation (EC) No 881/2002 is amended in accordance with the Annex to this Regulation.

Article 2

This Regulation shall enter into force on the day following that of its publication in the *Official Journal of the European Union*.

⁽¹⁾ OJ L 139, 29.5.2002, p. 9.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 31 July 2023.

*For the Commission,
On behalf of the President,
Director-General
Directorate-General for Financial Stability, Financial
Services and Capital Markets Union*

ANNEX

The identifying data for the following entries under the heading 'Natural persons' in Annex I to Regulation (EC) No 881/2002 is amended as follows:

- (a) 'Yazid Sufaat (alias (a) Joe, (b) Abu Zufar). Address: (a) Taman Bukit Ampang, Selangor, Malaysia (previous address) (b) Malaysia. Date of birth: 20.1.1964. Place of birth: Johor, Malaysia. Nationality: Malaysian. Passport No: A 10472263. National identification No: 640120-01-5529. Date of designation referred to in Article 7d(2)(i): 9.9.2003.'

is replaced by the following:

'Yazid Sufaat (low quality alias: (a) Joe, (b) Abu Zufar). Address: (a) Taman Bukit Ampang, State of Selangor, Malaysia (previous address) (b) Malaysia (in prison since 2013 to 2019). Date of birth: 20.1.1964. Place of birth: Johor, Malaysia. Nationality: Malaysian. Passport No: A 10472263. National identification No: 640120-01-5529. Other information: Founding member of Jemaah Islamiyah (JI) who worked on Al-Qaida's biological weapons program, provided support to those involved in Al-Qaida's 11 Sep. 2001 attacks in the United States of America, and was involved in JI bombing operations. Detained in Malaysia from 2001 to 2008. Arrested in Malaysia in 2013 and sentenced to 7 years in Jan. 2016 for failing to report information relating to terrorist acts. Completed detention on 20 November 2019. Served a two-year restricted residence order in Selangor Malaysia until 21 November 2021. Photos included in INTERPOL-UN Security Council Special Notice. Date of designation referred to in Article 7d(2)(i): 9.9.2003.;

- (b) 'Faysal Ahmad Bin Ali Al-Zahrani (alias (a) Faisal Ahmed Ali Alzahrani, (b) Abu Sarah al-Saudi (c) Abu Sara Zahrani). Date of birth: 19.1.1986. Nationality: Saudi Arabia. Address: Syrian Arab Republic. Passport number: (a) K142736 (Saudi Arabian passport number issued 14.7.2011 in Al-Khafji, Saudi Arabia), (b) G579315 (Saudi Arabian passport number). Date of designation referred to in Article 7d(2)(i): 20.4.2016.'

is replaced by the following:

'Faysal Ahmad Bin Ali Al-Zahrani (good quality alias: Faisal Ahmed Ali Alzahrani; low quality alias: a) Abu Sarah al-Saudi, b) Abu Sara Zahrani). Date of birth: 19.1.1986. Nationality: Saudi Arabia. Address: Syrian Arab Republic. Passport number: (a) K142736 (Saudi Arabian passport number issued 14.7.2011 in Al-Khafji, Saudi Arabia), (b) Saudi Arabia national identification number G579315. Other information: Reportedly deceased. Was the lead oil and gas division official of Islamic State in Iraq and the Levant (ISIL), listed as Al-Qaida in Iraq, for Al Barakah Governorate, Syrian Arab Republic, as of May 2015. Date of designation referred to in Article 7d(2)(i): 20.4.2016.'

COMMISSION IMPLEMENTING REGULATION (EU) 2023/1581

of 1 August 2023

amending Implementing Regulation (EU) 2017/2470 as regards the conditions of use of the novel food ‘astaxanthin-rich oleoresin from *Haematococcus pluvialis* algae’

(Text with EEA relevance)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EU) 2015/2283 of the European Parliament and of the Council of 25 November 2015 on novel foods, amending Regulation (EU) No 1169/2011 of the European Parliament and of the Council and repealing Regulation (EC) No 258/97 of the European Parliament and of the Council and Commission Regulation (EC) No 1852/2001 ⁽¹⁾, and in particular Article 12 thereof,

Whereas:

- (1) Regulation (EU) 2015/2283 provides that only novel foods authorised and included in the Union list of novel foods may be placed on the market within the Union.
- (2) Pursuant to Article 8 of Regulation (EU) 2015/2283, Commission Implementing Regulation (EU) 2017/2470 ⁽²⁾ has established a Union list of authorised novel foods.
- (3) The Union list set out in the Annex to Implementing Regulation (EU) 2017/2470 includes astaxanthin-rich oleoresin from *Haematococcus pluvialis* algae as an authorised novel food.
- (4) The novel food ‘astaxanthin-rich oleoresin from *Haematococcus pluvialis* algae’ has been authorised in accordance with Article 5 of Regulation (EC) No 258/97 of the European Parliament and of the Council ⁽³⁾ for use in food supplements as defined in Directive 2002/46/EC of the European Parliament and of the Council ⁽⁴⁾ intended for the general population. The maximum authorised levels of the novel food is 40–80 mg/day of oleoresin, resulting in ≤ 8 mg astaxanthin per day.
- (5) Commission Implementing Regulation (EU) 2021/1377 ⁽⁵⁾ amended the conditions of use of the novel food astaxanthin-rich oleoresin from *Haematococcus pluvialis* algae. In particular, the use of the novel food in food supplements containing 40–80 mg of astaxanthin-rich oleoresin from *Haematococcus pluvialis* algae corresponding to levels of astaxanthin up to 8 mg has been limited to adults and adolescents above 14 years of age. The amendment was based on an opinion of the European Food Safety Authority (‘the Authority’) ‘Safety of astaxanthin for its use as a novel food in food supplements’ ⁽⁶⁾, which concluded on the safety of the levels up to 8 mg of astaxanthin only for the population above 14 years of age.

⁽¹⁾ OJ L 327, 11.12.2015, p. 1.

⁽²⁾ Commission Implementing Regulation (EU) 2017/2470 of 20 December 2017 establishing the Union list of novel foods in accordance with Regulation (EU) 2015/2283 of the European Parliament and of the Council on novel foods (OJ L 351, 30.12.2017, p. 72).

⁽³⁾ Regulation (EC) No 258/97 of the European Parliament and of the Council of 27 January 1997 concerning novel foods and novel food ingredients (OJ L 43, 14.2.1997, p. 1).

⁽⁴⁾ Directive 2002/46/EC of the European Parliament and of the Council of 10 June 2002 on the approximation of the laws of the Member States relating to food supplements (OJ L 183, 12.7.2002, p. 51).

⁽⁵⁾ Commission Implementing Regulation (EU) 2021/1377 of 19 August 2021 authorising the change of the conditions of use of the novel food astaxanthin-rich oleoresin from *Haematococcus pluvialis* algae under Regulation (EU) 2015/2283 of the European Parliament and of the Council and amending Commission Implementing Regulation (EU) 2017/2470 (OJ L 297, 20.8.2021, p. 20).

⁽⁶⁾ EFSA Panel on Nutrition, Novel Foods and Food Allergens, Scientific Opinion on the safety of astaxanthin as a novel food in food supplements. *EFSA Journal* 2020;18(2):5993.

- (6) On 15 December 2022, the company Natural Algae Astaxanthin Association ('the applicant') submitted an application to the Commission in accordance with Article 10(1) of Regulation (EU) 2015/2283 for a change of the conditions of use of, astaxanthin-rich oleoresin from *Haematococcus pluvialis* algae. The applicant requested to extend the use of the novel food in food supplements intended for children 3 to less than 10 years of age at levels of 23 mg/day of oleoresin (corresponding to up to 2,3 mg/day of astaxanthin), and to food supplements intended for adolescents aged 10 to less than 14 years of age containing 57 mg/day oleoresin (corresponding to up to 5,6 mg/day of astaxanthin).
- (7) The Commission considers that the requested change in the conditions of use of astaxanthin-rich oleoresin from *Haematococcus pluvialis* algae is not liable to have an effect on human health and that a safety evaluation by the Authority in accordance with Article 10(3) of Regulation (EU) 2015/2283 is not necessary. Taking into account the Acceptable Daily Intake ('ADI') of astaxanthin of 0,2 mg/kg body weight per day and the intakes of astaxanthin from the background diet as set out in the opinion of the authority published in 2020, the intake of astaxanthin from food supplements as proposed by the applicant would result in overall intakes of astaxanthin that do not exceed the ADI.
- (8) The information provided in the application gives sufficient grounds to establish that the changes in the conditions of use of astaxanthin-rich oleoresin from *Haematococcus pluvialis* algae, are in accordance with the conditions of Article 12 of Regulation (EU) 2015/2283 and should be approved.
- (9) In line with the change in the conditions of use of food supplements containing various levels of astaxanthin-rich oleoresin from *Haematococcus pluvialis* algae depending on the targeted age groups of the population, it is necessary to inform consumers by appropriate labelling that food supplements containing the novel food are not to be consumed by the groups of the population they are not intended for, and are not to be consumed by infants and young children. In addition, the Commission considers appropriate to lay down additional labelling requirement in order to prevent concomitant consumption of astaxanthin food supplements, which is likely to exceed the ADI established by the Authority.
- (10) In order to limit the administrative burden and to provide business operators with sufficient time to comply with the requirements of this Regulation, transitional periods should be laid down to cover food supplements containing $\leq 8,0$ mg astaxanthin which have been placed on the market or dispatched from third countries for the Union and are intended for the general population older than 14 years of age, before the date of entry into force of this Regulation. Those transitional measures should take into account the safety of consumers by providing them the information about the appropriate use in line with the requirements of this Regulation.
- (11) The Annex to Implementing Regulation (EU) 2017/2470 should therefore be amended accordingly.
- (12) The measures provided for in this Regulation are in accordance with the opinion of the Standing Committee on Plants, Animals, Food and Feed,

HAS ADOPTED THIS REGULATION:

Article 1

The Annex to Implementing Regulation (EU) 2017/2470 is amended in accordance with the Annex to this Regulation.

Article 2

1. Food supplements containing $\leq 8,0$ mg astaxanthin intended for the general population older than 14 years of age, which were lawfully placed on the market before the date of entry into force of this Regulation, may be marketed until their date of minimum durability or use by date.

2. Food supplements containing $\leq 8,0$ mg astaxanthin intended for the general population older than 14 years of age, imported into the Union may be marketed until their date of minimum durability or use by date where the importer of such food can demonstrate that they were dispatched from the third country concerned and were on their way to the Union before the date of entry into force of this Regulation.

Article 3

This Regulation shall enter into force on the twentieth day following that of its publication in the *Official Journal of the European Union*.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 1 August 2023.

For the Commission
The President
Ursula VON DER LEYEN

ANNEX

In the Annex to Implementing Regulation (EU) 2017/2470, the entry for 'Astaxanthin-rich oleoresin from *Haematococcus pluvialis* algae' in Table 1 (Authorised novel foods) is replaced by the following:

Authorised novel food	Conditions under which the novel food may be used		Additional specific labelling requirements	Other requirements	
‘Astaxanthin-rich oleoresin from <i>Haematococcus pluvialis</i> algae	<i>Specified food category</i>	<i>Maximum levels of astaxanthin</i>	The designation of the novel food on the labelling of the foodstuffs containing it shall be ‘Astaxanthin rich oleoresin from <i>Haematococcus pluvialis</i> algae’ The labelling of food supplements containing Astaxanthin rich oleoresin from <i>Haematococcus pluvialis</i> algae shall bear a statement that they should not be consumed: (a) if other food supplements containing astaxanthin esters are consumed on the same day (b) by infants and young children under 3 years of age (c) by infants and children under 10 years of age (*) (d) by infants, children and adolescents under 14 years of age (*).		
	Food supplements as defined in Directive 2002/46/EC excluding infants and young children	2,3 mg astaxanthin per day for children 3 to less than 10 years of age			
		5,7 mg astaxanthin per day for adolescents 10 to less than 14 years of age			
	8 mg astaxanthin per day for general population older than 14 years of age				

(*) Depending on the age group the food supplement is intended for.’

COMMISSION IMPLEMENTING REGULATION (EU) 2023/1582**of 1 August 2023****amending Implementing Regulation (EU) 2017/2470 as regards the conditions of use of the novel food 3'-Sialyllactose sodium salt produced by derivative strains of *Escherichia coli* BL21(DE3)****(Text with EEA relevance)**

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EU) 2015/2283 of the European Parliament and of the Council of 25 November 2015 on novel foods, amending Regulation (EU) No 1169/2011 of the European Parliament and of the Council and repealing Regulation (EC) No 258/97 of the European Parliament and of the Council and Commission Regulation (EC) No 1852/2001 ⁽¹⁾, and in particular Article 12 thereof,

Whereas:

- (1) Regulation (EU) 2015/2283 provides that only novel foods authorised and included in the Union list of novel foods may be placed on the market within the Union.
- (2) Pursuant to Article 8 of Regulation (EU) 2015/2283, Commission Implementing Regulation (EU) 2017/2470 ⁽²⁾ has established a Union list of novel foods.
- (3) Commission Implementing Regulation (EU) 2021/96 ⁽³⁾ authorised the placing on the Union market of 3'-Sialyllactose sodium salt obtained by microbial fermentation using the genetically modified strain K-12 DH1 of *Escherichia coli* ('*E. coli*') as a novel food under Regulation (EU) 2015/2283.
- (4) Commission Implementing Regulation (EU) 2023/113 ⁽⁴⁾ authorised the placing on the Union market of 3'-Sialyllactose sodium salt obtained by microbial fermentation using genetically modified derivative strains of *E. coli* BL21(DE3) as a novel food under Regulation (EU) 2015/2283.
- (5) On 8 February 2023, the company Chr. Hansen A/S ('the applicant') submitted an application to the Commission in accordance with Article 10(1) of Regulation (EU) 2015/2283 for a change of the conditions of use of 3'-Sialyllactose ('3'-SL') sodium salt, obtained by microbial fermentation using genetically modified derivative strains (a production strain and an optional degradation strain) of *E. coli* BL21(DE3). The applicant requested for an increase of the maximum levels of 3'-SL sodium salt used in infant formula as defined in Regulation (EU) No 609/2013 of the European Parliament and of the Council ⁽⁵⁾, from the currently maximum authorised level of 0,23 g/kg or 1 to a

⁽¹⁾ OJ L 327, 11.12.2015, p. 1.

⁽²⁾ Commission Implementing Regulation (EU) 2017/2470 of 20 December 2017 establishing the Union list of novel foods in accordance with Regulation (EU) 2015/2283 of the European Parliament and of the Council on novel foods (OJ L 351, 30.12.2017, p. 72).

⁽³⁾ Commission Implementing Regulation (EU) 2021/96 of 28 January 2021 authorising the placing on the market of 3'-sialyllactose sodium salt as a novel food under Regulation (EU) 2015/2283 of the European Parliament and of the Council and amending Commission Implementing Regulation (EU) 2017/2470 (OJ L 31, 29.1.2021, p. 201).

⁽⁴⁾ Commission Implementing Regulation (EU) 2023/113 of 16 January 2023 authorising the placing on the market of 3'-sialyllactose sodium salt produced by derivative strains of *Escherichia coli* BL21(DE3) as a novel food and amending Implementing Regulation (EU) 2017/2470 (OJ L 15, 17.1.2023, p. 1).

⁽⁵⁾ Regulation (EU) No 609/2013 of the European Parliament and of the Council of 12 June 2013 on food intended for infants and young children, food for special medical purposes, and total diet replacement for weight control and repealing Council Directive 92/52/EEC, Commission Directives 96/8/EC, 1999/21/EC, 2006/125/EC and 2006/141/EC, Directive 2009/39/EC of the European Parliament and of the Council and Commission Regulations (EC) No 41/2009 and (EC) No 953/2009 (OJ L 181, 29.6.2013, p. 35).

maximum level of 0,28 g/kg or l, and to extend the use of 3'-SL sodium salt in food supplements as defined in Directive 2002/46/EC of the European Parliament and of the Council ⁽⁶⁾ intended for infants and young children at the levels of 0,28 g/day. Subsequently, on 23 March 2023, the applicant modified the initial request in the application and removed from the proposed uses the use of 3'-SL sodium salt in food supplements intended for infants and young children.

- (6) The applicant justified the request for the proposed changes in the conditions of use of 3'-SL sodium salt in infant formula as defined in Regulation (EU) No 609/2013, as a means to bring the use levels of 3'-SL sodium salt in infant formula and the resulting intakes closer to the levels of 3'-SL naturally found in human milk.
- (7) The Commission considers that the requested update of the Union list concerning the change of the conditions of use of 3'-SL sodium salt produced by derivative strains of *E. coli* BL21(DE3) as proposed by the applicant, is not liable to have an effect on human health and that a safety evaluation by the European Food Safety Authority ('the Authority') in accordance with Article 10(3) of Regulation (EU) 2015/2283 is not necessary. In this regard, the slightly increased intake of 3'-SL sodium salt that would result from this increased use in infant formula as defined in Regulation (EU) No 609/2013, would still be lower than the intakes of 3'-SL from breast milk that were considered by the Authority to be of no safety concern in its 2022 opinion of 3'-SL sodium salt produced by derivative strains of *E. coli* BL21(DE3). ⁽⁷⁾ The Commission also considers that the increase in the maximum use levels of 3'-SL sodium salt in infant formula from 0,23 g/kg or l to 0,28 g/kg or l should also be reflected in the conditions of use of foods for special medical purposes for infants and young children as defined under Regulation (EU) No 609/2013, as the maximum levels of 3'-SL sodium salt in those foods are linked to the maximum levels used in infant formula.
- (8) The information provided in the application and the Authority's opinion of 2022 give sufficient grounds to establish that the changes to the conditions of use of 3'-SL sodium salt produced by derivative strains of *E. coli* strain BL21(DE3) are in accordance with the conditions of Article 12 of Regulation (EU) 2015/2283 and should be approved.
- (9) The Annex to Implementing Regulation (EU) 2017/2470 should therefore be amended accordingly.
- (10) The measures provided for in this Regulation are in accordance with the opinion of the Standing Committee on Plants, Animals, Food and Feed,

HAS ADOPTED THIS REGULATION:

Article 1

The Annex to Implementing Regulation (EU) 2017/2470 is amended in accordance with the Annex to this Regulation.

Article 2

This Regulation shall enter into force on the twentieth day following that of its publication in the *Official Journal of the European Union*.

⁽⁶⁾ Directive 2002/46/EC of the European Parliament and of the Council of 10 June 2002 on the approximation of the laws of the Member States relating to food supplements (OJ L 183, 12.7.2002, p. 51).

⁽⁷⁾ EFSA Journal 2022;20(5):7331.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 1 August 2023.

For the Commission
The President
Ursula VON DER LEYEN

In the Annex to Implementing Regulation (EU) 2017/2470, in Table 1 (Authorised novel foods), the entry for 3'-Sialyllactose (3'-SL) sodium salt (produced by derivative strains of *E. coli* BL21(DE3)) is replaced by the following:

Authorised novel food	Conditions under which the novel food may be used		Additional specific labelling requirements	Other requirements	Data Protection
3'-Sialyllactose (3'-SL) sodium salt (produced by derivative strains of <i>E. coli</i> BL21(DE3))	Specified food category	Maximum levels	The designation of the novel food on the labelling of the foodstuffs containing it shall be '3'-Sialyllactose sodium salt'.		<p>Authorised on 6 February 2023. This inclusion is based on proprietary scientific evidence and scientific data protected in accordance with Article 26 of Regulation (EU) 2015/2283.</p> <p>Applicant: "Chr. Hansen A/S", Boege Allé 10-12, 2970 Hoersholm, Denmark. During the period of data protection, the novel food 3'-Sialyllactose sodium salt is authorised for placing on the market within the Union only by Chr. Hansen A/S unless a subsequent applicant obtains authorisation for the novel food without reference to the proprietary scientific evidence or scientific data protected in accordance with Article 26 of Regulation (EU) 2015/2283 or with the agreement of "Chr. Hansen A/S".</p> <p>End date of the data protection: 6 February 2028.'</p>
	Infant formula as defined under Regulation (EU) No 609/2013	0,28 g/L in the final product ready for use, marketed as such or reconstituted as instructed by the manufacturer	The labelling of food supplements containing 3'-Sialyllactose (3'-SL) sodium salt shall bear a statement that		
	Follow-on formula as defined under Regulation (EU) No 609/2013	0,28 g/L in the final product ready for use, marketed as such or reconstituted as instructed by the manufacturer	(a) they should not be consumed by children under 3 years of age; (b) they should not be used if other foods containing added 3'-sialyllactose sodium salt are consumed the same day.		
	Processed cereal-based foods for infants and young children and baby foods for infants and young children as defined under Regulation (EU) No 609/2013	0,28 g/L or 0,28 g/kg in the final product ready for use, marketed as such or reconstituted as instructed by the manufacturer			
	Milk based drinks and similar products intended for young children	0,28 g/L in the final product ready for use, marketed as such or reconstituted as instructed by the manufacturer			

<p>Foods for special medical purposes for infants and young children as defined under Regulation (EU) No 609/2013</p>	<p>In accordance with the particular nutritional requirements of the infants and young children for whom the products are intended but in any case not higher than 0,28 g/L or 0,28 g/kg in the final product ready for use, marketed as such or reconstituted as instructed by the manufacturer.</p>			
<p>Foods for special medical purposes as defined under Regulation (EU) No 609/2013 excluding foods for infants and young children</p>	<p>In accordance with the particular nutritional requirements of the persons for whom the products are intended</p>			
<p>Food Supplements as defined in Directive 2002/46/EC, for the general population, excluding infants and young children</p>	<p>0,7 g/day</p>			

COMMISSION IMPLEMENTING REGULATION (EU) 2023/1583**of 1 August 2023****amending Implementing Regulation (EU) 2017/2470 as regards the specifications of the novel food
Lacto-N-neotetraose (microbial source)****(Text with EEA relevance)**

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EU) 2015/2283 of the European Parliament and of the Council of 25 November 2015 on novel foods, amending Regulation (EU) No 1169/2011 of the European Parliament and of the Council and repealing Regulation (EC) No 258/97 of the European Parliament and of the Council and Commission Regulation (EC) No 1852/2001 ⁽¹⁾, and in particular Article 12 thereof,

Whereas:

- (1) Regulation (EU) 2015/2283 provides that only novel foods authorised and included in the Union list may be placed on the market within the Union.
- (2) Pursuant to Article 8 of Regulation (EU) 2015/2283, Commission Implementing Regulation (EU) 2017/2470 ⁽²⁾ has established a Union list of authorised novel foods.
- (3) Commission Implementing Decision (EU) 2016/375 ⁽³⁾ authorised, in accordance with Regulation (EC) No 258/97 of the European Parliament and of the Council ⁽⁴⁾, the placing on the market of chemically synthesized Lacto-N-neotetraose as a novel food ingredient.
- (4) Pursuant to Article 5 of Regulation (EC) No 258/97, on 1 September 2016, the company Glycom A/S informed the Commission of its intention to place on the market Lacto-N-neotetraose of microbial source produced with genetically modified *Escherichia coli* strain K-12 as a novel food ingredient. Lacto-N-neotetraose of microbial origin produced with genetically modified *Escherichia coli* strain K-12 was included in the Union list of novel foods on the basis of that notification when the Union list was established.
- (5) Commission Implementing Regulation (EU) 2019/1314 ⁽⁵⁾ amended the specifications of the novel food Lacto-N-neotetraose (microbial source) produced with genetically modified *Escherichia coli* strain K-12.
- (6) Commission Implementing Regulation (EU) 2021/912 ⁽⁶⁾ amended the specifications of the novel food Lacto-N-neotetraose (microbial source) to allow Lacto-N-neotetraose produced by the combined activity of the genetically modified strains PS-LNnT-JBT and DS-LNnT-JBT derived from *Escherichia coli* strain BL21(DE3) to be placed on the market under the same conditions of use as the ones previously authorised for Lacto-N-neotetraose.

⁽¹⁾ OJ L 327, 11.12.2015, p. 1.

⁽²⁾ Commission Implementing Regulation (EU) 2017/2470 of 20 December 2017 establishing the Union list of novel foods in accordance with Regulation (EU) 2015/2283 of the European Parliament and of the Council on novel foods (OJ L 351, 30.12.2017, p. 72).

⁽³⁾ Commission Implementing Decision (EU) 2016/375 of 11 March 2016 authorising the placing on the market of Lacto-N-neotetraose as a novel food ingredient under Regulation (EC) No 258/97 of the European Parliament and of the Council (OJ L 70, 16.3.2016, p. 22).

⁽⁴⁾ Regulation (EC) No 258/97 of the European Parliament and of the Council of 27 January 1997 concerning novel foods and novel food ingredients (OJ L 43, 14.2.1997, p. 1).

⁽⁵⁾ Commission Implementing Regulation (EU) 2019/1314 of 2 August 2019 authorising the change of the specifications of the novel food Lacto-N-neotetraose produced with *Escherichia coli* K-12 under Regulation (EU) 2015/2283 of the European Parliament and of the Council and amending Commission Implementing Regulation (EU) 2017/2470 (OJ L 205, 5.8.2019, p. 4).

⁽⁶⁾ Commission Implementing Regulation (EU) 2021/912 of 4 June 2021 authorising changes in the specifications of the novel food Lacto-N-neotetraose (microbial source) and amending Implementing Regulation (EU) 2017/2470 (OJ L 199, 7.6.2021, p. 10).

- (7) On 15 November 2022, the company Chr. Hansen A/S ('the applicant') submitted an application to the Commission in accordance with Article 10(1) of Regulation (EU) 2015/2283 for a change of the specifications of Lacto-N-neotetraose (microbial source) produced by the combined activity of the derivative strains PS-LNnT-JBT and DS-LNnT-JBT of *Escherichia coli* strain BL21(DE3). The applicant requested for the reference to the specific genetically modified derivative strains PS-LNnT-JBT and DS-LNnT-JBT of *Escherichia coli* BL21(DE3) used to produce Lacto-N-neotetraose (microbial source) to be replaced by the generic mention of both strains. In addition the applicant requested a change in the specifications of Lacto-N-neotetraose (microbial source) so that it can be produced using authorised derivative strains of *Escherichia coli* K-12 and/or of *Escherichia coli* BL21(DE3) rather than the current limitation of using either the authorised derivative strain of *Escherichia coli* K-12 or the authorised derivative strains of *Escherichia coli* BL21(DE3).
- (8) The applicant justified the request for the proposed changes in the specifications of Lacto-N-neotetraose (microbial source) to replace the specific mention of PS-LNnT-JBT and DS-LNnT-JBT of *Escherichia coli* strain BL21(DE3) by a more generic mention of production and optional degradation strains as being a more accurate way to describe the respective functions of the two strains in the production process as assessed ⁽⁷⁾ by the European Food Safety Authority ('the Authority'), and as a means to allow for more flexibility to the applicant and other food business operators to use authorised derivatives of *Escherichia coli* strain BL21(DE3) in line with their respective functions rather than limiting their production to the specific derivative strains PS-LNnT-JBT and DS-LNnT-JBT. In addition, in the applicant's view this modification would also align the authorised specifications of Lacto-N-neotetraose produced with derivative strains of *Escherichia coli* strain BL21(DE3) to the authorised specifications of other novel foods produced with production and optional degradation derivative strains of *Escherichia coli* BL21(D3) in which specific derivative strains are not mentioned. The applicant also justified the request to allow use of combinations of authorised derivative strains of the *Escherichia coli* strains, namely *Escherichia coli* K-12 and/or *Escherichia coli* BL21(DE3) as an additional means to allow for flexibility to the applicant and other food business operators to use authorised derivative strains of *Escherichia coli* in the production of Lacto-N-neotetraose.
- (9) The Commission considers that the requested update of the Union list concerning the change of the specifications of Lacto-N-neotetraose proposed by the applicant, is not liable to have an effect on human health and that a safety evaluation by the Authority in accordance with Article 10(3) of Regulation (EU) 2015/2283 is not necessary. The parent *Escherichia coli* strains BL21(DE3) and K-12 and their genetically modified derivative strains used in the production of Lacto-N-neotetraose have been positively assessed by the Authority ⁽⁸⁾ and in the context of a notification pursuant to Article 5 of Regulation (EC) No 258/97, respectively. Their use in the production of Lacto-N-neotetraose with or without the additional use of the optional degradation derivative strain of *Escherichia coli* strain BL21(DE3) will produce Lacto-N-neotetraose in line with the authorised specifications, and consequently will not affect the safety profile of the authorised novel food.
- (10) The information provided in the application and the above Opinion of the Authority give sufficient grounds to establish that the changes to the specifications of Lacto-N-neotetraose (microbial source), are in accordance with the conditions of Article 12 of Regulation (EU) 2015/2283 and should be approved.
- (11) The Annex to Implementing Regulation (EU) 2017/2470 should therefore be amended accordingly.
- (12) The measures provided for in this Regulation are in accordance with the opinion of the Standing Committee on Plants, Animals, Food and Feed,

⁽⁷⁾ EFSA Journal 2020;18(11):6305.

⁽⁸⁾ EFSA Journal 2020;18(11):6305.

HAS ADOPTED THIS REGULATION:

Article 1

The Annex to Implementing Regulation (EU) 2017/2470 is amended in accordance with the Annex to this Regulation.

Article 2

This Regulation shall enter into force on the twentieth day following that of its publication in the *Official Journal of the European Union*.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 1 August 2023.

For the Commission
The President
Ursula VON DER LEYEN

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In the Annex to Implementing Regulation (EU) 2017/2470, in Table 2 (Specifications), the entry for Lacto-*N*-neotetraose (microbial source) is replaced by the following:

Lacto-<i>N</i>-neotetraose (microbial source)	<p>Definition Chemical name: β-D-Galactopyranosyl-(1 \rightarrow 4)-2-acetamido-2-deoxy-β-D-glucopyranosyl-(1 \rightarrow 3)-β-D-galactopyranosyl-(1 \rightarrow 4)-D-glucopyranose Chemical formula: C₂₆H₄₅NO₂₁ CAS No: 13007-32-4 Molecular weight: 707,63 g/mol</p> <p>Description/Source Lacto-<i>N</i>-neotetraose is a white to off-white powder that is produced by a microbiological process using genetically modified strain of <i>Escherichia coli</i> K-12, and/or of <i>Escherichia coli</i> BL21(DE3). An additional optional genetically modified degradation strain of <i>Escherichia coli</i> BL21(DE3) may be used in the production process to degrade intermediate carbohydrate by-products and remaining starting carbohydrate substrates.</p> <p>Purity Assay (water free): \geq 80 % D-Lactose: \leq 10,0 % Lacto-<i>N</i>-triose II: \leq 3,0 % <i>para</i>-Lacto-<i>N</i>-neohexaose: \leq 5,0 % Lacto-<i>N</i>-neotetraose fructose isomer: \leq 1,0 % Sum of saccharides (Lacto-<i>N</i>-neotetraose, D-Lactose, Lacto-<i>N</i>-triose II, <i>para</i>-Lacto-<i>N</i>-neohexaose, Lacto-<i>N</i>-neotetraose fructose isomer): \geq 92 % (% w/w dry matter) pH (20 °C, 5 % solution): 4,0-7,0 Water: \leq 9,0 % Ash, sulphated: \leq 1,0 % Residual solvents (methanol): \leq 100 mg/kg Residual proteins: \leq 0,01 %</p> <p>Microbiological criteria Aerobic mesophilic bacteria total count: \leq 500 CFU/g Yeasts and moulds: \leq 50 CFU/g Residual endotoxins: \leq 10 EU/mg CFU: Colony Forming Units; EU: Endotoxin Units'</p>
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COMMISSION IMPLEMENTING REGULATION (EU) 2023/1584**of 1 August 2023****on measures to prevent the establishment and spread of *Popillia japonica* Newman and on measures for the eradication and containment of that pest within certain demarcated areas of the Union territory**

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EU) 2016/2031 of the European Parliament and of the Council of 26 October 2016 on protective measures against pests of plants, amending Regulations (EU) No 228/2013, (EU) No 652/2014 and (EU) No 1143/2014 of the European Parliament and of the Council and repealing Council Directives 69/464/EEC, 74/647/EEC, 93/85/EEC, 98/57/EC, 2000/29/EC, 2006/91/EC and 2007/33/EC⁽¹⁾, and in particular Article 28(1), points (d), (e), (f), (g), (h) and (i), and Article 28(2), thereof,

Whereas:

- (1) Commission Implementing Regulation (EU) 2019/2072⁽²⁾ lays down, in Part B of Annex II, the list of Union quarantine pests known to occur in the Union territory.
- (2) *Popillia japonica* Newman ('the specified pest') is included in that list, as it is known to occur in certain parts of the Union territory. It is a polyphagous pest reported to have an impact on many different plant species in the Union territory.
- (3) Plants which are the preferred hosts of the specified pest ('the specified plants') should be listed and subject to certain measures for eradication or containment, as applicable, in the infested zones.
- (4) The specified pest is also listed in the Annex to Commission Delegated Regulation (EU) 2019/1702⁽³⁾ as a priority pest.
- (5) In order to ensure its early detection and eradication in the Union territory, Member States should carry out annual surveys, using methods in line with the latest scientific and technical information. Traps represent an important capturing method in regard to the specified pest in the Union territory and should be used extensively. The annual surveys should at least concern those plants that are most commonly found infested by the specified pest ('specified plants').
- (6) In accordance with Regulation (EU) 2016/2031, each Member State is to draw up and keep up to date for each priority pest a contingency plan. Based on the experience from previous outbreaks, it is necessary to adopt specific rules implementing Article 25 of Regulation (EU) 2016/2031 in order to ensure a comprehensive contingency plan in case of any findings of the specified pest in the Union.
- (7) In order to eradicate the specified pest and prevent its spread in the Union territory, Member States should establish demarcated areas consisting of an infested zone and a buffer zone, by applying eradication measures therein. The width of a buffer zone should be at least 5 km beyond the boundaries of the infested zone, bearing in mind the spread capacity of the specified pest.

⁽¹⁾ OJ L 317, 23.11.2016, p. 4.

⁽²⁾ Commission Implementing Regulation (EU) 2019/2072 of 28 November 2019 establishing uniform conditions for the implementation of Regulation (EU) 2016/2031 of the European Parliament and the Council, as regards protective measures against pests of plants, and repealing Commission Regulation (EC) No 690/2008 and amending Commission Implementing Regulation (EU) 2018/2019 (OJ L 319, 10.12.2019, p. 1).

⁽³⁾ Commission Delegated Regulation (EU) 2019/1702 of 1 August 2019 supplementing Regulation (EU) 2016/2031 of the European Parliament and of the Council by establishing the list of priority pests (OJ L 260, 11.10.2019, p. 8).

- (8) However, in cases of isolated findings of the specified pest, the establishment of a demarcated area should not be required when the specified pest is immediately eradicated and there is evidence that those plants were infested before their introduction into the area of the finding or there is evidence that the specified pest has not multiplied and that the finding is not expected to lead to establishment. This is the most appropriate approach, provided that surveys are carried out to confirm the absence of the specified pest.
- (9) In certain areas of the Union territory, the eradication of the specified pest is no longer possible. The Member States concerned should therefore be allowed to apply measures for the containment of that pest within those areas, instead of its eradication. Those measures should ensure a diligent survey approach and more precautionary actions, mainly in defining the size of the infested zone and the respective buffer zone. The buffer zone in demarcated areas for containment should have a width of at least 15 km beyond the boundaries of the infested zone, which is wider than the buffer zone in demarcated areas for eradication, in order to prevent the spread of the specified pest to the rest of the Union territory.
- (10) Member States should notify the Commission and the other Member States of every demarcated area for containment that they intend to designate or modify, so as to give an overview of the spread of the specified pest in the Union territory. This is necessary for the review of this Regulation and for keeping updated a list of demarcated areas for containment.
- (11) In order to ensure the immediate application of eradication measures and to prevent further spread of the specified pest to the rest of the Union territory, the surveys of the buffer zones should be carried out annually at the most appropriate time of the year and with sufficient intensity, taking into account the possibility for the competent authorities to further monitor the plants in the infested zones for containment.
- (12) The provisions of this Regulation concerning the contingency plans should apply from 1 August 2023 in order to allow sufficient time for Member States to prepare the contents of those plans.
- (13) The provisions of this Regulation concerning the conduct of surveys in demarcated areas on the basis of the European Food Safety Authority's General guidelines for statistically sound and risk-based surveys for plant pests ⁽⁴⁾ should apply from 1 January 2025 for surveys in demarcated areas and from 1 January 2026 for surveys of the Union territory outside demarcated areas, in order to allow sufficient time for the competent authorities to plan, prepare the design and allocate sufficient resources for such surveys.
- (14) The measures provided for in this Regulation are in accordance with the opinion of the Standing Committee on Plants, Animals, Food and Feed,

HAS ADOPTED THIS REGULATION:

Article 1

Subject matter

This Regulation sets out measures to prevent the establishment and spread within the Union territory of *Popillia japonica* Newman, measures for its eradication, where it is found present in that territory, and measures for its containment, when eradication is no longer possible.

Article 2

Definitions

For the purposes of this Regulation, the following definitions apply:

- (1) 'specified pest' means *Popillia japonica* Newman;

⁽⁴⁾ EFSA, General guidelines for statistically sound and risk-based surveys of plant pests, 8 September 2020, doi:10.2903/sp.efsa.2020.EN-1919.

- (2) 'host plants' means all plants for planting with growing media intended to sustain the vitality of the plants, other than plants in tissue culture and aquatic plants;
- (3) 'specified plants' means the plants for planting with growing media intended to sustain the vitality of the plants, other than plants in tissue culture and aquatic plants listed in Annex I;
- (4) 'demarcated area for containment' means an area listed in Annex II, where the specified pest cannot be eradicated;
- (5) 'the pest survey card' means the publication 'Pest survey card on *Popillia japonica*'⁽⁵⁾ of the European Food Safety Authority ('the Authority');
- (6) 'General guidelines for statistically sound and risk-based surveys' means the publication 'General guidelines for statistically sound and risk-based surveys of plant pests' of the Authority.

Article 3

Surveys of the Union territory outside of demarcated areas

1. The competent authorities shall conduct annual risk-based surveys for the presence of the specified pest outside of the demarcated areas, in the areas of the Union territory where the specified pest is not known to be present, but could become established, taking into account the information referred to in the pest survey card.
2. The survey design and sampling scheme of the survey shall be in line with the General guidelines for statistically sound and risk-based surveys, in order to detect with a sufficient level of confidence, a low level of presence of the specified pest within the Member State concerned.
3. The surveys shall be carried out:
 - (a) on the basis of the level of the phytosanitary risk;
 - (b) in the risk areas of open air fields, orchards/vineyards, nurseries, public sites, areas with grass such as sport grounds and golf courses, surroundings of airports, ports and railway stations, as well as in greenhouses and garden centres, and especially in areas close to the transport network axis connecting with areas where the pest is known to be present;
 - (c) at appropriate times of the year, with regards to the possibility to detect the specified pest, taking into account the biology of the pest and the presence of specified plants.
4. The surveys shall consist of:
 - (a) trapping, using lures to attract the specified pest; and
 - (b) where appropriate, visual examinations of the specified plants.

Article 4

Contingency plans

1. Member States shall, in addition to the elements listed in Article 25(2) of Regulation (EU) 2016/2031, provide in their contingency plans for the following:
 - (a) measures for the eradication of the specified pest, as set out in Article 9;
 - (b) special requirements regarding the introduction of host plants into and their movement within the Union territory, as set out in Annexes VII and VIII to Implementing Regulation (EU) 2019/2072;
 - (c) procedures for identifying the owners of private properties where measures will have to be applied in case of detection of the specified pest.

⁽⁵⁾ EFSA (European Food Safety Authority), 2019. Pest survey card on *Popillia japonica*. EFSA supporting publication 2019:EN-1568. 22pp. doi:10.2903/sp.efsa.2019.EN-1568.

2. Member States shall update their contingency plans, as appropriate, by 31 December of each year.

Article 5

Establishment of demarcated areas

1. Where the presence of the specified pest is officially confirmed, the Member State concerned shall, without delay, establish a demarcated area for the purpose of eradication of the specified pest.
2. Following an official confirmation of the presence of the specified pest and the establishment of the demarcated area referred to in paragraph 1, the competent authorities shall, without delay, determine the level of infestation through adequate visual examinations and the use of traps with lures to attract the specified pest.
3. When, based on the results of the surveys referred to in Article 7 or the results of the investigations referred to in paragraph 2, it is concluded that the level of infestation by the specified pest is such that makes its eradication impossible, the competent authorities shall immediately notify to the Commission the details of the new demarcated area for containment that they intend to designate or modify, in order for such area to be included in the list of demarcated areas for containment in Annex II.
4. The demarcated areas shall consist of the following:
 - (a) an infested zone including the area where the presence of the specified pest has been officially confirmed surrounded by at least a width of:
 - (i) 1 km in the case of a demarcated area for eradication of the specified pest;
 - (ii) 3 km in the case of a demarcated area for containment of the specified pest; and
 - (b) a buffer zone with a width of at least:
 - (i) 5 km beyond the boundary of the infested zone in the case of a demarcated area for eradication of the specified pest;
 - (ii) 15 km beyond the boundary of the infested zone in the case of a demarcated area for containment of the specified pest.
5. The delimitation of the demarcated area shall take into account the scientific principles, the biology of the specified pest, the level of infestation, the particular distribution of the host plants in the area concerned and the evidence of establishment of the specified pest.
6. If the presence of the specified pest is confirmed outside the infested zone, eradication measures shall be taken in accordance with Article 9 and the delimitation of the infested zone and buffer zone shall be reviewed and modified accordingly.

Where the presence of the specified pest has been officially confirmed in the buffer zone of a demarcated area for containment, Articles 17 and 18 of Regulation (EU) 2016/2031 shall apply until the competent authorities evaluate the level of that infestation. In case eradication is not considered possible, paragraph 3 of this Article shall apply.

7. Within the demarcated areas the competent authorities shall raise public awareness concerning the threat of the specified pest and the measures adopted to prevent its further spread outside of those areas.

They shall ensure that the general public and professional operators are aware of the delimitation of the demarcated areas.

*Article 6***Derogations from the obligation to establish demarcated areas**

1. By way of derogation from Article 5(1), the competent authorities may choose not to establish a demarcated area if the following conditions are fulfilled:
 - (a) there is evidence that the specified pest has not multiplied; and
 - (b) there is evidence that:
 - (i) the specified pest has been introduced into the area with the plants on which it was found and those plants were infested before their introduction into the area concerned; or
 - (ii) it is an isolated finding, not expected to lead to establishment.
2. Where the competent authority applies the derogation provided for in paragraph 1, it shall:
 - (a) take measures to ensure the prompt eradication of the specified pest and to exclude the possibility of its spread;
 - (b) immediately intensify the number of traps and the frequency with which the traps are checked in that area;
 - (c) immediately intensify visual examination for the presence of adults of the specified pest and inspect grassland and soil for the presence of larvae of the specified pest at appropriate times;
 - (d) during at least one life cycle of the specified pest plus one additional year, survey a width of at least 1 km around the infested plants or the place where the specified pest was found, regularly and intensively during the flying period of the specified pest;
 - (e) trace back the origin of the infestation and investigate the pathways associated with the finding of the specified pest as far as possible;
 - (f) raise public awareness of the threat of the specified pest; and
 - (g) take any other measure, which may help eradicate the specified pest, in accordance with the eradication measures described in Article 9.

*Article 7***Annual surveys in demarcated areas**

1. In the demarcated areas, the competent authorities shall carry out annual surveys, as referred to in Article 19(1) of Regulation (EU) 2016/2031, to detect the presence of the specified pest, taking into account the information referred to in the pest survey card.
2. The survey design shall be in line with the General guidelines for statistically sound and risk-based surveys and the survey design and sampling scheme used for detection surveys shall guarantee the detection with at least 95 % of confidence, a level of presence of the specified pest of 1 %.
3. The annual surveys shall be carried out:
 - (a) in the infested zones, in the case of demarcated areas for eradication;
 - (b) in the buffer zones in the demarcated areas for eradication and in the buffer zones in the demarcated areas for containment;
 - (c) in open air fields, orchards/vineyards, forests, nurseries, private gardens, public sites, areas with grass such as sport grounds and golf courses, surroundings of airports, ports and railway stations, as well as in greenhouses and garden centres, in particular in the areas close to the transport network axis connecting with areas where the specified pest is not known to be present; and
 - (d) at appropriate times of the year, with regard to the possibility to detect the specified pest, taking into account the biology of the specified pest and the presence of specified plants.

4. The annual surveys shall consist of:
- (a) trapping, using lures to attract the specified pest in the case of surveys carried out in the infested zones in the demarcated areas for eradication;
 - (b) visual examinations of the specified plants;
 - (c) soil sampling and testing, to detect the larvae of the specified pest.

Article 8

Lifting of demarcation

The demarcation may be lifted when, based on the surveys referred to in Article 7, the specified pest has not been detected in the demarcated area for at least three consecutive years.

Article 9

Eradication measures

1. In the infested zones, the competent authorities shall ensure that to eradicate the specified pest the following measures are taken:

- (a) against the adults of the specified pest, at least a combination of two of these:
 - (i) mass trapping system with lures, ensuring the destruction of the specified pest by appropriate methods;
 - (ii) attract-and-kill strategy;
 - (iii) manual capture of the specified pest, ensuring the destruction of the specified pest by appropriate methods;
 - (iv) chemical treatments of the plants;
 - (v) biological control (such as entomopathogenic fungi or any other effective biological control);
 - (vi) any other measure which has been scientifically proven to be effective;
- (b) against the larvae of the specified pest, at least a combination of two of these:
 - (i) appropriate treatments of the soil where larvae of the specified pest are present;
 - (ii) biological control (such as entomopathogenic fungi or entomopathogenic nematodes or any other effective biological control);
 - (iii) prohibition of irrigation of grassland during the emergence of the adults of the specified pest from the soil and during their flying period;
 - (iv) use of mechanical milling to destroy larvae in the soil at appropriate times of the year;
 - (v) local destruction of heavily infested grassland;
- (c) during the flying period of the specified pest:
 - (i) specific measures in airports, harbours and railway stations to ensure that the specified pest is kept out of aircrafts, ships and trains, based on specific risk management procedures, which have been communicated to the Commission and the other Member States in writing; and
 - (ii) prohibition of the movement of untreated plant debris outside of the infested zone, unless it is transported within enclosed vehicles, and it is stored and composted in an indoor facility outside the infested area;
- (d) prohibition of the movement of the upper layer of the soil and used growing media outside of the infested zone, unless:
 - (i) it has been subject to appropriate measures to eliminate the specified pest or prevent infestation of the specified plants; or
 - (ii) it will be deep buried in landfill under the supervision of the competent authorities, while being transported within enclosed vehicles, which to ensure that the specified pest cannot spread.

2. In the buffer zones, the competent authorities shall ensure that the upper layer of the soil, used growing media and untreated plant debris are moved outside the buffer zone, only in so far as the specified pest has not been found to be present therein.

Article 10

Containment measures

1. In the infested zones, the competent authorities shall ensure that the following measures are taken, in order to contain the specified pest:

- (a) measures to control the presence of the specified pest and to avoid further spread, through an integrated approach, including one or more of the following:
 - (i) mass trapping system with lures, or manual capture, ensuring the destruction of the captures by appropriate methods, or attract-and-kill strategy;
 - (ii) biological control such as by entomopathogenic fungi or by entomopathogenic nematodes;
 - (iii) chemical treatment of the plants and/or appropriate treatment of the soil;
 - (iv) use of mechanical milling to destroy larvae in the soil at appropriate times of the year;
 - v) mechanical destruction of vegetation in sites at risk;
- (b) during the flying period of the specified pest:
 - (i) specific measures in airports, harbours and railway stations to ensure the specified pest is kept out of aircrafts, ships and trains, based on specific risk management procedures, which have been communicated to the Commission and the other Member States in writing; and
 - (ii) prohibition of the movement of untreated plant debris outside of the infested zone, unless it is transported within enclosed vehicles, and it is stored and composted in an indoor facility outside the infested area;
- (c) prohibition of the movement of the upper layer of the soil and used growing medium outside of the infested zone, unless:
 - (i) it has been subject to appropriate measures to eliminate the specified pest or prevent infestation of the specified plants; or
 - (ii) it will be deep buried in landfill under the supervision of the competent authorities, being transported within enclosed vehicles which ensures the specified pest cannot spread.

2. In the buffer zones, the competent authorities shall ensure that the upper layer of the soil, used growing media and untreated plant debris are moved outside the buffer zone, only in so far as the specified pest has not been found to be present.

Article 11

Reporting

By 30 April of each year, Member States shall submit to the Commission and to the other Member States:

- (a) a report on the measures taken during the preceding calendar year pursuant to this Regulation and on the results of the measures provided for in Articles 5 to 10;

- (b) the results of the surveys carried out pursuant to Article 3, outside of the demarcated areas, during the preceding calendar year, using the templates referred to in Annex I to Commission Implementing Regulation (EU) 2020/1231 ⁽⁶⁾;
- (c) the results of the surveys carried out pursuant to Article 7, in the demarcated areas, during the preceding calendar year, using one of the templates referred to in Annex III.

Article 12

Entry into force and date of application

This Regulation shall enter into force on the twentieth day following that of its publication in the *Official Journal of the European Union*.

Article 3(2) shall apply from 1 January 2026.

Article 4 shall apply from 1 August 2023.

Article 7(2) shall apply from 1 January 2025.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 1 August 2023.

For the Commission
The President
Ursula VON DER LEYEN

⁽⁶⁾ Commission Implementing Regulation (EU) 2020/1231 of 27 August 2020 on the format and instructions for the annual reports on the results of the surveys and on the format of the multiannual survey programmes and the practical arrangements, respectively provided for in Articles 22 and 23 of Regulation (EU) 2016/2031 of the European Parliament and the Council (OJ L 280, 28.8.2020, p. 1).

ANNEX I

LIST OF SPECIFIED PLANTS

<i>Acer</i> L.	<i>Melia</i> L.
<i>Actinidia</i> Lindley	<i>Morus</i> L.
<i>Aesculus</i> L.	<i>Oenothera</i> L.
<i>Alcea</i> L.	<i>Parthenocissus</i> Planch.
<i>Alnus</i> Mill.	<i>Persicaria</i> (L.) Mill.
<i>Althaea</i> L.	<i>Phaseolus</i> L.
<i>Ampelopsis</i> A.Rich. ex Michx.	<i>Platanus</i> L.
<i>Aronia</i> Medikus	<i>Poaceae</i> Barnhart
<i>Artemisia</i> L.	<i>Populus</i> L.
<i>Asparagus</i> Tourn. ex L.	<i>Prunus</i> L.
<i>Berchemia</i> Neck. ex DC.	<i>Pteridium</i> Gled. ex Scop.
<i>Betula</i> L.	<i>Pyrus</i> L.
<i>Carpinus</i> L.	<i>Quercus</i> L.
<i>Castanea</i> Mill.	<i>Reynoutria</i> Houutt.
<i>Clethra</i> L.	<i>Rheum</i> L.
<i>Convolvulus</i> L.	<i>Ribes</i> L.
<i>Corylus</i> L.	<i>Robinia</i> L.
<i>Crataegus</i> L.	<i>Rosa</i> L.
<i>Cyperaceae</i> Juss.	<i>Rubus</i> L.
<i>Dioscorea</i> L.	<i>Rumex</i> L.
<i>Fallopia</i> Lour.	<i>Salix</i> L.
<i>Filipendula</i> Mill.	<i>Sassafras</i> L. ex Nees
<i>Fragaria</i> L.	<i>Smilax</i> L.
<i>Glycine</i> Willd.	<i>Solanum</i> L.
<i>Hibiscus</i> L.	<i>Sorbus</i> L.
<i>Humulus</i> L.	<i>Tilia</i> L.
<i>Hypericum</i> Tourn. ex L.	<i>Toxicodendron</i> Mill.
<i>Juglans</i> L.	<i>Trifolium</i> Tourn. ex L.
<i>Kerria</i> D.C.	<i>Ulmus</i> L.
<i>Lagerstroemia</i> L.	<i>Urtica</i> L.
<i>Lythrum</i> L.	<i>Vaccinium</i> L.
<i>Malus</i> Mill.	<i>Vitis</i> L.
<i>Malva</i> Tourn. ex L.	<i>Wisteria</i> Nutt.
<i>Medicago</i> L.	<i>Zelkova</i> Spach

ANNEX II

LIST OF DEMARCATED AREAS FOR CONTAINMENT AS REFERRED TO IN ARTICLE 2, POINT (4)

1. Italy

Number/name of demarcated area (DA)	Zone of DA	Region	Municipalities or other administrative/geographic delimitations
1.	Infested zone	Lombardia	<p>The entire territory of the following municipalities:</p> <p>Provincia di Bergamo Ambivere, Arzago d'Adda, Bottanuco, Brembate, Brembate di Sopra, Brignano Gera d'Adda, Calusco d'Adda, Calvenzano, Canonica d'Adda, Capriate San Gervasio, Caprino Bergamasco, Caravaggio, Carvico, Casirate d'Adda, Castel Rozzone, Chignolo d'Isola, Cisano Bergamasco, Curno, Fara Gera d'Adda, Filago, Madone, Mapello, Medolago, Misano di Gera d'Adda, Mozzo, Ponte San Pietro, Pontida, Pontirolo Nuovo, Solza, Sotto il Monte Giovanni XXIII, Suisio, Terno d'Isola, Torre de' Busi, Treviglio, Valbrembo, Villa d'Adda.</p> <p>Provincia di Como Albavilla, Albese con Cassano, Albiolo, Alserio, Alta Valle Intelvi, Alzate Brianza, Anzano del Parco, Appiano Gentile, Arosio, Asso, Beregazzo con Figliaro, Binago, Bizzarone, Blevio, Bregnano, Brenna, Brunate, Bulgarograsso, Cabiato, Cadorago, Campione d'Italia, Cantù, Canzo, Capiago Intimiano, Carate Urio, Carbonate, Carimate, Carugo, Caslino d'Erba, Casnate con Bernate, Cassina Rizzardi, Castelmarte, Castelnuovo Bozzente, Cermenate, Cernobbio, Cirimido, Colverde, Como, Cucciago, Erba, Eupilio, Faggeto Lario, Faloppio, Fenegrò, Figino Serenza, Fino Mornasco, Grandate, Guanzate, Inverigo, Laglio, Lambrugo, Lezzone, Limido Comasco, Lipomo, Locate Varesino, Lomazzo, Longone al Segrino, Luisago, Lurago d'Erba, Lurago Marinone, Lurate Caccivio, Mariano Comense, Maslianico, Merone, Moltrasio, Monguzzo, Montano Lucino, Montorfano, Mozzate, Nesso, Novedrate, Olgiate Comasco, Oltrona di San Mamette, Orsenigo, Pognana Lario, Ponte Lambro, Proserpio, Pusiano, Rezzago, Rodero, Ronago, Rovellasca, Rovello Porro, San Fermo della Battaglia, Senna Comasco, Solbiate con Cagno, Tavernerio, Torno, Turate, Uggiate-Trevano, Valbrona, Valmorea, Veseo, Veniano, Vertemate con Minoprio, Villa Guardia.</p> <p>Provincia di Cremona Agnadello, Bagnolo Cremasco, Capralba, Casaletto Ceredano, Chieve, Dovera, Monte Cremasco, Palazzo Pignano, Pandino, Pieranica, Quintano, Rivolta d'Adda, Sergnano, Spino d'Adda, Torlino Vimercati, Trescore Cremasco, Vaiano Cremasco, Vailate.</p> <p>Provincia di Lecco Annone di Brianza, Barzago, Barzanò, Bosisio Parini, Brivio, Bulciago, Calco, Casatenovo, Cassago Brianza, Castello di Brianza, Cernusco Lombardone, Cesana Brianza, Civate, Colle Brianza, Costa Masnaga, Cremella, Dolzago, Ello, Garbagnate Monastero, Imbersago, La Valletta Brianza, Lomagna, Merate, Missaglia, Molteno, Monte Marengo, Montevecchia, Monticello Brianza, Nibionno, Oggiono, Olgiate Molgora, Osnago, Paderno d'Adda, Robbiate, Rogeno, Santa Maria Hoè, Sirone, Sirtori, Suello, Valmadrera, Verderio, Viganò.</p>

		<p>Provincia di Lodi Abbadia Cerreto, Boffalora d'Adda, Borghetto Lodigiano, Borgo San Giovanni, Brembio, Casaletto Lodigiano, Casalmaiocco, Caselle Lurani, Castiraga Vidardo, Cavenago d'Adda, Cervignano d'Adda, Comazzo, Cornegliano Laudense, Corte Palasio, Crespiatica, Galgagnano, Graffignana, Livraga, Lodi, Lodi Vecchio, Mairago, Marudo, Massalengo, Merlino, Montanaso Lombardo, Mulazzano, Ossago Lodigiano, Pieve Fissiraga, Salerano sul Lambro, San Martino in Strada, Sant'Angelo Lodigiano, Secugnago, Sordio, Tavazzano con Villavesco, Turano Lodigiano, Valera Fratta, Villanova del Sillaro, Zelo Buon Persico.</p> <p>Città metropolitana di Milano Abbiategrosso, Albairate, Arconate, Arese, Arluno, Assago, Baranzate, Bareggio, Basiano, Basiglio, Bellinzago Lombardo, Bernate Ticino, Besate, Binasco, Boffalora sopra Ticino, Bollate, Bresso, Bubbiano, Buccinasco, Buscate, Bussero, Busto Garolfo, Calvignasco, Cambiago, Canegrate, Carpiano, Carugate, Casarile, Casorezzo, Cassano d'Adda, Cassina de' Pecchi, Cassinetta di Lugagnano, Castano Primo, Cernusco sul Naviglio, Cerro al Lambro, Cerro Maggiore, Cesano Boscone, Cesate, Cinisello Balsamo, Cisliano, Cologno Monzese, Colturano, Corbetta, Cormano, Cornaredo, Corsico, Cuggiono, Cusago, Cusano Milanino, Dairago, Dresano, Gaggiano, Garbagnate Milanese, Gessate, Gorgonzola, Grezzago, Gudo Visconti, Inveruno, Inzago, Lacchiarella, Lainate, Legnano, Liscate, Locate di Triulzi, Magenta, Magnago, Marcallo con Casone, Masate, Mediglia, Melegnano, Melzo, Mesero, Milano, Morimondo, Motta Visconti, Nerviano, Nosate, Novate Milanese, Noviglio, Opera, Ossona, Ozzero, Paderno Dugnano, Pantigliate, Parabiago, Paullo, Pero, Peschiera Borromeo, Pessano con Bornago, Pieve Emanuele, Pioltello, Pogliano Milanese, Pozzo d'Adda, Pozzuolo Martesana, Pregnana Milanese, Rescaldina, Rho, Robecchetto con Induno, Robecco sul Naviglio, Rodano, Rosate, Rozzano, San Colombano al Lambro, San Donato Milanese, San Giorgio su Legnano, San Giuliano Milanese, San Vittore Olona, San Zenone al Lambro, Santo Stefano Ticino, Sedriano, Segrate, Senago, Sesto San Giovanni, Settala, Settimo Milanese, Solaro, Trezzano Rosa, Trezzano sul Naviglio, Trezzo sull'Adda, Tribiano, Truccazzano, Turbigo, Vanzaghella, Vanzago, Vaprio d'Adda, Vermezzo con Zelo, Vernate, Vignate, Villa Cortese, Vimodrone, Vittuone, Vizzolo Predabissi, Zibido San Giacomo.</p> <p>Provincia di Monza e della Brianza Agrate Brianza, Aicurzio, Albiate, Arcore, Barlassina, Bellusco, Bernareggio, Besana in Brianza, Biassono, Bovisio-Masciago, Briosco, Brugherio, Burago di Molgora, Busnago, Camparada, Caponago, Carate Brianza, Carnate, Cavenago di Brianza, Ceriano Laghetto, Cesano Maderno, Cogliate, Concorezzo, Cornate d'Adda, Correzzana, Desio, Giussano, Lazzate, Lentate sul Seveso, Lesmo, Limbiate, Lissone, Macherio, Meda, Mezzago, Misinto, Monza, Muggiò, Nova Milanese, Ornago, Renate, Roncello, Ronco Briantino, Seregno, Seveso, Sovico, Sulbiate, Triuggio, Usmate Velate, Varedo, Vedano al Lambro, Veduggio con Colzano, Verano Brianza, Villasanta, Vimercate.</p> <p>Provincia di Pavia Alagna, Albaredo Arnaboldi, Albonese, Albuzzano, Arena Po, Badia Pavese, Bagnaria, Barbianello, Bascapè, Bastida Pancarana, Battuda, Belgioioso, Bereguardo, Borgarello, Borgo Priolo, Borgo San Siro, Borgoratto Mormorolo, Bornasco, Bosnasco, Breme, Bressana Bottarone, Broni, Calvignano, Campospinoso, Candia Lomellina, Canneto Pavese, Carbonara al Ticino, Casanova Lonati, Casatisma, Casei Gerola, Casorate Primo, Cassolnovo, Castana, Casteggio, Castelletto di Branduzzo, Castello d'Agogna, Castelnovetto, Cava Manara, Cecima, Ceranova, Ceretto Lomellina, Cergnago, Certosa di Pavia, Cervesina, Chignolo Po, Cigognola,</p>
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		<p>Cilavegna, Codevilla, Colli Verdi, Confienza, Copiano, Corana, Cornale e Bastida, Corteolona e Genzone, Corvino San Quirico, Costa de' Nobili, Cozzo, Cura Carpignano, Dorno, Ferrera Erbognone, Filighera, Fortunago, Frascarolo, Galliavola, Gambarana, Gambolò, Garlasco, Gerenzago, Giussago, Godiasco Salice Terme, Golferenzo, Gravellona Lomellina, Gropello Cairoli, Inverno e Monteleone, Landriano, Langosco, Lardirago, Linarolo, Lirio, Lomello, Lungavilla, Maghero, Marcignago, Marzano, Mede, Mezzana Bigli, Mezzana Rabattone, Mezzanino, Miradolo Terme, Montalto Pavese, Montebello della Battaglia, Montecalvo Versiggia, Montescano, Montesegale, Montù Beccaria, Mornico Losana, Mortara, Nicorvo, Olevano di Lomellina, Oliva Gessi, Ottobiano, Palestro, Pancarana, Parona, Pavia, Pietra de' Giorgi, Pieve Albignola, Pieve del Cairo, Pieve Porto Morone, Pinarolo Po, Pizzale, Ponte Nizza, Portalbera, Rea, Redavalle, Retorbido, Rivanazzano Terme, Robbio, Robecco Pavese, Rocca de' Giorgi, Rocca Susella, Rognano, Roncaro, Rosasco, Rovescala, San Cipriano Po, San Damiano al Colle, San Genesio ed Uniti, San Giorgio di Lomellina, San Martino Siccomario, San Zenone al Po, Sannazzaro de' Burgondi, Sant'Alessio con Vialone, Sant'Angelo Lomellina, Santa Cristina e Bissone, Santa Giuletta, Santa Maria della Versa, Sartirana Lomellina, Scaldasole, Semiana, Silvano Pietra, Siziano, Sommo, Spessa, Stradella, Suardi, Torrazza Coste, Torre Beretti e Castellaro, Torre d'Arese, Torre d'Isola, Torre de' Negri, Torrevecchia Pia, Torricella Verzate, Travacò Siccomario, Trivolzio, Tromello, Trovo, Val di Nizza, Valeggio, Valle Lomellina, Valle Salimbene, Varzi, Vellezzo Lomellina, Vellezzo Bellini, Verretto, Verrua Po, Vidigulfo, Vigevano, Villa Biscossi, Villanova d'Ardenghi, Villanterio, Vistarino, Voghera, Volpara, Zavattarello, Zeccone, Zeme, Zenevredo, Zerbo, Zerbolò, Zinasco.</p> <p>Provincia di Varese Agra, Albizzate, Angera, Arcisate, Arsago Seprio, Azzate, Azzio, Barasso, Bardello, Bedero Valcuvia, Besano, Besnate, Besozzo, Biandronno, Bisuschio, Bodio Lomnago, Brebbia, Bregano, Brenta, Brezzo di Bedero, Brinzio, Brissago-Valtravaglia, Brunello, Brusimpiano, Buguggiate, Busto Arsizio, Cadegliano-Viconago, Cadrezzate con Osmate, Cairate, Cantello, Caravate, Cardano al Campo, Carnago, Caronno Pertusella, Caronno Varesino, Casale Litta, Casalzuigno, Casciago, Casorate Sempione, Cassano Magnago, Cassano Valcuvia, Castellanza, Castello Cabiaglio, Castelseprio, Castelvecchiana, Castiglione Olona, Castronno, Cavaria con Premezzo, Cazzago Brabbia, Cislago, Cittiglio, Clivio, Cocquio-Trevisago, Comabbio, Comerio, Cremenaga, Crosio della Valle, Cuasso al Monte, Cugliate-Fabiasco, Cunardo, Curiglia con Monteviasco, Cuveglio, Cuvio, Daverio, Dumenza, Duno, Fagnano Olona, Ferno, Ferrera di Varese, Gallarate, Galliate Lombardo, Gavirate, Gazzada Schianno, Gemonio, Gerenzano, Germignaga, Golasacca, Gorla Maggiore, Gorla Minore, Gornate Olona, Grantola, Inarzo, Induno Olona, Ispra, Jerago con Orago, Lavena Ponte Tresa, Laveno-Mombello, Leggiuno, Lonate Ceppino, Lonate Pozzolo, Lozza, Luino, Luvinata, Maccagno con Pino e Veddasca, Malgesso, Malnate, Marchirolo, Marnate, Marzio, Masciago Primo, Mercallo, Mesenzana, Montegrino Valtravaglia, Monvalle, Morazzone, Mornago, Oggiona con Santo Stefano, Olgiate Olona, Origgio, Orino, Porto Ceresio, Porto Valtravaglia, Rancio Valcuvia, Ranco, Saltrio, Samarate, Sangiano, Saronno, Sesto Calende, Solbiate Arno, Solbiate Olona, Somma Lombardo, Sumirago, Taino, Ternate, Tradate, Travedona-Monate, Tronzano Lago Maggiore, Uboldo, Valganna, Varano Borghi, Varese, Vedano Olona, Venegono Inferiore, Venegono Superiore, Vergiate, Viggìù, Vizzola Ticino.</p>
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		Piemonte	<p>The entire territory of the following municipalities:</p> <p>Provincia di Alessandria Alessandria, Alfiano Natta, Alluvioni Pivera, Altavilla Monferrato, Alzano Scrivia, Avolasca, Balzola, Bassignana, Bergamasco, Berzano di Tortona, Borgo San Martino, Borgoratto Alessandrino, Bosco Marengo, Bozzolo, Brignano-Frascata, Camagna Monferrato, Camino, Carbonara Scrivia, Carentino, Casal Cermelli, Casale Monferrato, Casalnoceto, Casasco, Castellar Guidobono, Castellazzo Bormida, Castelletto Merli, Castelletto Monferrato, Castelnuovo Scrivia, Cella Monte, Cereseto, Cerreto Grue, Cerrina Monferrato, Coniolo, Conzano, Felizzano, Frassinello Monferrato, Frassineto Po, Frugarolo, Fubine Monferrato, Gabiano, Giarole, Greliasco, Guazzora, Isola Sant'Antonio, Lu e Cuccaro Monferrato, Masio, Mirabello Monferrato, Molino dei Torti, Mombello Monferrato, Momperone, Moncestino, Monleale, Montecastello, Montegioco, Montemarzino, Morano sul Po, Murisengo, Occimiano, Odalengo Grande, Odalengo Piccolo, Olivola, Ottiglio, Oviglio, Ozzano Monferrato, Pecetto di Valenza, Pietra Marazzi, Pomaro Monferrato, Pontecurone, Pontestura, Ponzano Monferrato, Pozzolo Groppo, Pozzolo Formigaro, Quargnento, Quattordio, Rivarone, Rosignano Monferrato, Sala Monferrato, Sale, San Giorgio Monferrato, San Salvatore Monferrato, Sarezzano, Serralunga di Crea, Solero, Solonghello, Spineto Scrivia, Terruggia, Ticineto, Tortona, Treville, Valenza, Valmacca, Vignale Monferrato, Viguzzolo, Villadeati, Villamiroglio, Villanova Monferrato, Villaromagnano, Volpedo, Volpeglino.</p> <p>Provincia di Asti Asti, Calliano, Casorzo, Castagnole Monferrato, Castell'Alfero, Castello di Annone, Chiusano d'Asti, Corsione, Cossombrato, Frinco, Grana, Grazzano Badoglio, Moncalvo, Montemagno, Penango, Portacomaro, Refrancore, Robella, Scurzolengo, Tonco, Viarigi, Villa San Secondo.</p> <p>Provincia di Biella Ailoche, Andorno Micca, Benna, Biella, Bioglio, Borriana, Brusnengo, Callabiana, Camandona, Camburzano, Campiglia Cervo, Candelo, Caprile, Casapinta, Castelletto Cervo, Cavaglià, Cerrione, Coggiola, Cossato, Crevacuore, Curino, Donato, Dorzano, Gaglianico, Giffenga, Graglia, Lessona, Magnano, Massazza, Masserano, Mezzana Mortigliengo, Miagliano, Mongrando, Mottalciata, Muzzano, Netro, Occhieppo Inferiore, Occhieppo Superiore, Pettinengo, Piatto, Piedicavallo, Pollone, Ponderano, Portula, Pralungo, Pray, Quaregna Cerreto, Ronco Biellese, Roppolo, Rosazza, Sagliano Micca, Sala Biellese, Salussola, Sandigliano, Sordevolo, Sostegno, Strona, Tavigliano, Ternengo, Tollegno, Torrazzo, Valdengo, Valdilana, Vallanzengo, Valle San Nicolao, Veglio, Verrone, Vigliano Biellese, Villa del Bosco, Villanova Biellese, Viverone, Zimone, Zubiena, Zumaglia.</p> <p>Provincia di Novara Agrate Conturbia, Ameno, Armeno, Arona, Barengo, Bellinzago Novarese, Biandrate, Boca, Bogogno, Bolzano Novarese, Borgo Ticino, Borgolavezzaro, Borgomanero, Briga Novarese, Briona, Caltignaga, Cameri, Carpignano Sesia, Casalbeltrame, Casaleggio Novara, Casalino, Casalvolone, Castellazzo Novarese, Castelletto sopra Ticino, Cavaglietto, Cavaglio d'Agogna, Cavallirio, Cerano, Colazza, Comignago, Cressa, Cureggio, Divignano, Dormelletto, Fara Novarese, Fontaneto d'Agogna, Galliate, Garbagna Novarese, Gargallo, Gattico-Veruno, Ghemme, Gozzano, Granozzo con Monticello, Grignasco, Inverio, Landiona, Lesa, Maggiora, Mandello Vitta, Marano Ticino, Massino Visconti, Meina, Mezzomerico, Miasino, Momo, Nebbiuno, Nibbiola, Novara, Oleggio, Oleggio Castello, Orta San Giulio, Paruzzaro, Pella, Pettenasco, Pisano, Pognò, Pombia, Prato Sesia, Recetto, Romagnano Sesia, Romentino, San Maurizio d'Opaglio, San Nazzaro Sesia, San Pietro Mosezzo, Sillavengo, Sizzano, Soriso, Sozzago,</p>
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		<p>Suno, Terdobbiate, Tornaco, Trecate, Vaprio d'Agogna, Varallo Pombia, Vespolate, Vicolungo, Vinzaglio.</p> <p>Città metropolitana di Torino Albiano d'Ivrea, Andrate, Azeglio, Banchette, Barone Canavese, Bollengo, Borgofranco d'Ivrea, Borgomasino, Brandizzo, Brozolo, Brusasco, Burolo, Caluso, Candia Canavese, Caravino, Carema, Cascinette d'Ivrea, Castiglione Torinese, Cavagnolo, Chiaverano, Chivasso, Collettero Giacosa, Cossano Canavese, Fiorano Canavese, Foglizzo, Gassino Torinese, Ivrea, Leini, Lessolo, Loranzé, Maglione, Mappano, Mazzé, Mercenasco, Montalto Dora, Montanaro, Monteu da Po, Nomaglio, Orio Canavese, Palazzo Canavese, Parella, Pavone Canavese, Piverone, Quassolo, Quincinetto, Romano Canavese, Rondissone, Salerano Canavese, Samone, San Benigno Canavese, San Mauro Torinese, San Raffaele Cimena, Scarmagno, Sciolze, Settimo Rottaro, Settimo Torinese, Settimo Vittone, Strambino, Tavagnasco, Torrazza Piemonte, Verolengo, Verrua Savoia, Vestignè, Villareggia, Vische, Volpiano.</p> <p>Provincia del Verbano-Cusio-Ossola Anzola d'Ossola, Arizzano, Arola, Baveno, Bee, Belgirate, Beura-Cardezza, Brovello-Carpugnino, Cambiasca, Cannero Riviera, Casale Corte Cerro, Cesara, Cossogno, Crevoladossola, Crodo, Domodossola, Germagno, Ghiffa, Gignese, Gravellona Toce, Loreglia, Madonna del Sasso, Massiola, Mergozzo, Miazzina, Nonio, Oggebbio, Omegna, Ornavasso, Pieve Vergonte, Premeno, Premosello-Chiovenda, Quarna Sopra, Quarna Sotto, San Bernardino Verbano, Stresa, Trontano, Valstrona, Verbania, Vignone, Vogogna.</p> <p>Provincia di Vercelli Albano Vercellese, Alice Castello, Arborio, Asigliano Vercellese, Balmuccia, Balocco, Bianzè, Borgo d'Ale, Borgo Vercelli, Borgosesia, Buronzo, Caresana, Caresanablot, Carisio, Casanova Elvo, Cellio con Breia, Cervatto, Cigliano, Civiasco, Collobiano, Costanzana, Cravagliana, Crescentino, Crova, Desana, Fobello, Fontanetto Po, Formigliana, Gattinara, Ghislarengo, Greggio, Guardabosone, Lamporo, Lenta, Lignana, Livorno Ferraris, Lozzolo, Moncrivello, Motta de' Conti, Olcenengo, Oldenico, Palazzolo Vercellese, Pertengo, Pezzana, Pila, Piode, Postua, Prarolo, Quarona, Quinto Vercellese, Rassa, Rimella, Rive, Roasio, Ronsecco, Rossa, Rovasenda, Salasco, Sali Vercellese, Saluggia, San Germano Vercellese, San Giacomo Vercellese, Santhià, Scopa, Scopello, Serravalle Sesia, Stroppiana, Tricerro, Trino, Tronzano Vercellese, Valduggia, Varallo, Vercelli, Villarboit, Villata, Vocca.</p>
	Emilia-Romagna	<p>The entire territory of the following municipalities: Provincia di Piacenza Alta Val Tidone, Borgonovo Val Tidone, Castel San Giovanni, Ziano Piacentino.</p>
	Valle d'Aosta	<p>The entire territory of the following municipalities: Provincia di Aosta Arnad, Brissogne, Donnas, Montjovet, Pollein, Quart, Saint-Christophe, Verrès.</p>

	Buffer zone	Lombardia	<p>The entire territory of the following municipalities:</p> <p>Provincia di Bergamo Albano Sant’Alessandro, Albino, Algua, Almè, Almenno San Bartolomeo, Almenno San Salvatore, Alzano Lombardo, Antegnate, Arcene, Aviatico, Azzano San Paolo, Bagnatica, Barbata, Bariano, Barzana, Bedulita, Berbenno, Bergamo, Bello, Bolgare, Boltiere, Bonate Sopra, Bonate Sotto, Bracca, Brumano, Brusaporto, Calcinate, Calcio, Capizzone, Carobbio degli Angeli, Cavernago, Cenate Sopra, Cenate Sotto, Chiuduno, Ciserano, Civate, al Piano, Cologno al Serio, Comun Nuovo, Corna Imagna, Cortenuova, Costa di Mezzate, Costa Serina, Costa Valle Imagna, Covo, Dalmine, Fara Olivana con Sola, Fontanella, Forno San Giovanni, Fuiplano Valle Imagna, Ghisalba, Gorlago, Gorle, Grassobbio, Isso, Lallio, Levate, Locatello, Lurano, Martinengo, Montello, Morengo, Mornico al Serio, Mozzanica, Nembro, Orio al Serio, Osio Sopra, Osio Sotto, Pagazzano, Paladina, Palazzago, Palosco, Pedrengo, Pognano, Ponteranica, Pradalunga, Presezzo, Pumenengo, Ranica, Romano di Lombardia, Roncola, Rota d’Imagna, San Giovanni Bianco, San Paolo d’Argon, San Pellegrino Terme, Sant’Omobono Terme, Scanzorosciate, Sedrina, Selvino, Seriate, Sorisole, Spirano, Stezzano, Strozza, Taleggio, Telgate, Torre Boldone, Torre de’ Roveri, Torre Pallavicina, Treviolo, Ubiale Clanezzo, Urganò, Val Brembilla, Veduggio, Verdellino, Verdello, Villa d’Almè, Villa di Serio, Zanica, Zogno.</p> <p>Provincia di Brescia Palazzolo sull’Oglio, Pontoglio, Roccafranca, Rudiano, Urigo d’Oglio.</p> <p>Provincia di Como Argegno, Barni, Bellagio, Bene Lario, Blessagno, Brieno, Caglio, Carlazzo, Cavargna, Centro Valle Intelvi, Cerano d’Intelvi, Claino con Osteno, Colonno, Corrido, Crema, Cusino, Dizzasco, Garzeno, Grandola ed Uniti, Griante, Laino, Lasnigo, Magreglio, Menaggio, Pianello del Lario, Pigra, Plesio, Ponna, Porlezza, Sala Comacina, San Bartolomeo Val Cavargna, San Nazzaro Val Cavargna, San Siro, Schignano, Sormano, Tremezzina, Val Rezzo, Valsolda, Zelbio.</p> <p>Provincia di Cremona Camisano, Campagnola Cremasca, Capergnanica, Cappella Cantone, Casale Cremasco-Vidolascio, Casaletto di Sopra, Casaletto Vaprio, Castel Gabbiano, Castelleone, Credera Rubbiano, Crema, Cremosano, Cumignano sul Naviglio, Fiesco, Formigara, Genivolta, Gombito, Grumello Cremonese ed Uniti, Izano, Madignano, Montodine, Moscazzano, Offanengo, Pianengo, Pizzighettone, Ricengo, Ripalta Arpina, Ripalta Cremasca, Ripalta Guerina, Romanengo, Salviola, San Bassano, Soncino, Soresina, Ticengo, Triglio.</p> <p>Provincia di Lecco Abbadia Lariana, Airuno, Ballabio, Barzio, Bellano, Calolziocorte, Carenno, Casargo, Cassina Valsassina, Cortenova, Crandola Valsassina, Cremona, Dervio, Erve, Esino Lario, Galbiate, Garlate, Introbio, Lecco, Lierna, Malgrate, Mandello del Lario, Margno, Moggio, Morterone, Olginate, Oliveto Lario, Parlasco, Pasturo, Perledo, Pescate, Primaluna, Taceno, Valgrehentino, Varenna, Vercurago.</p> <p>Provincia di Lodi Bertonico, Casalpusterlengo, Castelgerundo, Castiglione d’Adda, Codogno, Corno Giovine, Cornovecchio, Fombio, Guardamiglio, Maleo, Orio Litta, Ospedaletto Lodigiano, San Fiorano, San Rocco al Porto, Santo Stefano Lodigiano, Senna Lodigiana, Somaglia, Terranova dei Passerini.</p>
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		<p>Provincia di Pavia Brallo di Pregola, Menconico, Monticelli Pavese, Romagnese, Santa Margherita di Staffora.</p>
	Piemonte	<p>The entire territory of the following municipalities:</p> <p>Provincia di Alessandria Acqui Terme, Albera Ligure, Alice Bel Colle, Arquata Scrivia, Basaluzzo, Bistagno, Borghetto di Borbera, Cabella Ligure, Cantalupo Ligure, Capriata d'Orba, Carezzano, Carpeneto, Carrega Ligure, Carrosio, Cassano Spinola, Cassine, Castellania Coppi, Castelletto d'Orba, Castelnuovo Bormida, Castelspina, Costa Vescovato, Dernice, Fabbrica Curone, Francavilla Bisio, Frascaro, Fresonara, Gamalero, Garbagna, Gavi, Grondona, Mongiardino Ligure, Montacuto, Montaldeo, Montaldo Bormida, Morsasco, Novi Ligure, Orsara Bormida, Paderna, Parodi Ligure, Pasturana, Predosa, Ricaldone, Rivalta Bormida, Rocca Grimalda, Roccaforte Ligure, Rocchetta Ligure, San Cristoforo, San Sebastiano Curone, Sant'Agata Fossili, Sardigliano, Serravalle Scrivia, Sezzadio, Silvano d'Orba, Stazzano, Strevi, Tassarolo, Terzo, Trisobbio, Vignole Borbera, Villalvernia, Visone.</p> <p>Provincia di Asti Aglia Terme, Albugnano, Antignano, Aramengo, Azzano d'Asti, Baldichieri d'Asti, Belveglio, Berzano di San Pietro, Bruno, Buttigiera d'Asti, Calamandrana, Calosso, Camerano Casasco, Canelli, Cantarana, Capriglio, Cassinasco, Castagnole delle Lanze, Castel Boglione, Castel Rocchero, Castellero, Castelletto Molina, Castelnuovo Belbo, Castelnuovo Calcea, Castelnuovo Don Bosco, Cellarengo, Celle Enomondo, Cerreto d'Asti, Cerro Tanaro, Cinaglio, Cisterna d'Asti, Coazzolo, Cocconato, Cortandone, Cortanze, Cortazzone, Cortiglione, Costigliole d'Asti, Cunico, Dusino San Michele, Ferrere, Fontanile, Incisa Scapaccino, Isola d'Asti, Maranzana, Mareto, Moasca, Mombaruzzo, Mombercelli, Monale, Moncucco Torinese, Mongardino, Montabone, Montafia, Montaldo Scarampi, Montechiaro d'Asti, Montegrosso d'Asti, Montiglio Monferrato, Moransengo, Nizza Monferrato, Passerano Marmorito, Piea, Pino d'Asti, Piovà Massaia, Quaranti, Revigliasco d'Asti, Roatto, Rocca d'Arazzo, Rocchetta Palafea, Rocchetta Tanaro, San Damiano d'Asti, San Martino Alfieri, San Marzano Oliveto, San Paolo Solbrito, Settime, Soglio, Tigliole, Tonengo, Vaglio Serra, Valfenera, Viale, Vigliano d'Asti, Villafranca d'Asti, Villanova d'Asti, Vinchio.</p> <p>Provincia di Cuneo Barbaresco, Canale, Castagnito, Castellinaldo d'Alba, Castiglione Tinella, Govone, Guarene, Magliano Alfieri, Montà, Monteu Roero, Neive, Priocca, Santo Stefano Belbo, Santo Stefano Roero, Veza d'Alba.</p> <p>Città metropolitana di Torino Agliè, Alpignano, Andezeno, Arignano, Bairo, Balangero, Baldissero Canavese, Baldissero Torinese, Barbania, Beinasco, Borgaro Torinese, Borgiallo, Bosconero, Brosso, Busano, Cafasse, Cambiano, Canischio, Casalborgone, Caselle Torinese, Castagneto Po, Castellamonte, Castelnuovo Nigra, Chieri, Chiesanuova, Ciconio, Cintano, Cinzano, Ciriè, Collegno, Collettero Castelnuovo, Corio, Cuceglio, Cuorgnè, Druento, Favria, Feletto, Fiano, Forno Canavese, Frassinetto, Front, Givoletto, Grosso, Grugliasco, Ingria, Isolabella, Issiglio, La Cassa, La Loggia, Lauriano, Levone, Lombardore, Lusigliè, Marentino, Mathi, Mombello di Torino, Moncalieri, Montaldo Torinese, Montalenghe, Moriondo Torinese, Nichelino, Nole, Oglanico, Orbassano, Ozegna, Pavarolo, Pecetto Torinese, Perosa Canavese, Pertusio, Pianezza, Pino Torinese, Poirino, Pont Canavese, Pralormo, Prascorsano, Pratiglione, Quagliuzzo, Riva presso Chieri, Rivalba, Rivalta di Torino, Rivara, Rivarolo Canavese, Rivarossa, Rivoli, Robassomero, Rocca</p>

		<p>Canavese, Ronco Canavese, Rueglio, Salassa, San Carlo Canavese, San Colombano Belmonte, San Francesco al Campo, San Gillio, San Giorgio Canavese, San Giusto Canavese, San Martino Canavese, San Maurizio Canavese, San Ponso, San Sebastiano da Po, Santena, Strambinello, Torino, Torre Canavese, Traversella, Trofarello, Val di Chy, Valchiusa, Vallo Torinese, Valperga, Valprato Soana, Varisella, Vauda Canavese, Venaria Reale, Vialfrè, Vidracco, Villanova Canavese, Vistrorio.</p> <p>Provincia del Verbano-Cusio-Ossola Antrona Schieranco, Aurano, Baceno, Bannio Anzino, Bognanco, Borgomezzavalle, Calasca-Castiglione, Cannobio, Caprezzo, Ceppo Morelli, Craveggia, Druogno, Formazza, Gurro, Intragna, Macugnaga, Malesco, Masera, Montecrestese, Montescheno, Pallanzeno, Piedimulera, Premia, Re, Santa Maria Maggiore, Toceno, Trarego Viggiona, Trasquera, Valle Cannobina, Vanzone con San Carlo, Varzo, Villadossola, Villetta.</p> <p>Provincia di Vercelli Alagna Valsesia, Alto Sermenza, Boccioleto, Campertogno, Carcoforo, Mollia.</p>
	Emilia-Romagna	<p>The entire territory of the following municipalities:</p> <p>Provincia di Piacenza Agazzano, Bettola, Bobbio, Calendasco, Cerignale, Coli, Corte Brugnatella, Farini, Gazzola, Gossolengo, Gagnano Trebbiense, Ottone, Piacenza, Pianello Val Tidone, Piozzano, Podenzano, Ponte dell'Olio, Rivergaro, Rottofreno, Sarmato, Travo, Vigolzone, Zerba.</p>
	Valle d'Aosta	<p>The entire territory of the following municipalities:</p> <p>Provincia di Aosta Allein, Antey-Saint-Andrè, Aosta, Arvier, Avise, Ayas, Aymavilles, Bard, Bionaz, Brusson, Challand-Saint-Anselme, Challand-Saint-Victor, Chambave, Chamois, Champdepraz, Champorcher, Charvensod, Châtillon, Cogne, Doues, Emarèse, Etroubles, Fénis, Fontainemore, Gaby, Gignod, Gressan, Gressoney-La-Trinitè, Gressoney-Saint-Jean, Hône, Introd, Issime, Issogne, Jovençon, La Magdeleine, Lillianes, Nus, Ollomont, Oyace, Perloz, Pont-Saint-Martin, Pontboset, Pontey, Rhêmes-Saint-Georges, Roisan, Saint-Denis, Saint-Marcel, Saint-Nicolas, Saint-Oyen, Saint-Pierre, Saint-Rhême-en-Bosses, Saint-Vincent, Sarre, Torgnon, Valpelline, Valsavarenche, Valtournenche, Verrayes, Villeneuve.</p>

2. Portugal

Number/name of demarcated area (DA)	Zone of DA	Region
1.	Infested zone	Azores Islands⁽¹⁾

(¹) No need of buffer zone, as they are islands.

TEMPLATES FOR REPORTING OF THE RESULTS OF THE ANNUAL SURVEYS CARRIED OUT PURSUANT TO ARTICLE 7

PART A

1. Template for reporting of results of annual surveys

Name	1. Description of the Demarcated Area (DA)										12. Survey details				13. No of symptomatic samples analysed: i: Total ii: Positive iii: Negative iv: Undetermined				14. No of asymptomatic samples analysed: i: Total ii: Positive iii: Negative iv: Undetermined				15. Notification number of the outbreaks notified, as applicable, in accordance with Implementing Regulation (EU) 2019/1715		16. Comments
	Date of establishment	2. Initial size of DA (ha)		3. Updated size of DA (ha)		4. Approach (eradication or containment)		5. Zone		6. Survey sites															
		A	B	C	D	E	F	G	H	I	i	ii	iii	iv	i	ii	iii	iv	Number	Date					

2. Instructions how to fill in the template

If this template is filled, the template in Part B is not to be filled.

For column 1: Indicate the name of the geographical area, outbreak number or any information that allows identification of this demarcated area (DA) and the date when it was established.

For column 2: Indicate the size of the DA before the start of the survey.

For column 3: Indicate the size of the DA after the survey.

For column 4: Indicate the approach: Eradication or Containment. Please, include as many rows as necessary, depending on the number of DA and the approaches these areas are subject to.

For column 5: Indicate the zone of the DA where the survey was carried out, including as many rows as necessary: Infested (IZ) or buffer zone (BZ), using separate rows. When applicable, indicate the area of the IZ where the survey was carried out (e.g. last 20 km adjacent to the BZ, around nurseries, etc.) in different rows.

For column 6: Indicate the number and the description of the survey sites, by choosing one of the following entries for the description:

1. Open air (production area): 1.1. field (arable, pasture); 1.2. orchard/vineyard; 1.3. nursery; 1.4. forest;
2. Open air (other): 2.1. private garden; 2.2. public sites; 2.3. conservation area; 2.4. wild plants in areas other than conservation areas; 2.5. other, with specification of the particular case (e.g. garden centre, commercial sites that uses wood packaging material, wood industry, wetlands, irrigation and drainage network, etc.);
3. Physically closed conditions: 3.1. greenhouse; 3.2. private site, other than greenhouse; 3.3. public site, other than greenhouse; 3.4. other, with specification of the particular case (e.g. garden centre, commercial sites that uses wood packaging material, wood industry).

For column 7: Indicate which are the risk areas identified based on the biology of the pest, presence of host plants, eco-climatic conditions and risk locations.

For column 8: Indicate the risk areas included in the survey, from those identified in column 7.

For column 9: Indicate plants, fruits, seeds, soil, packaging material, wood, machinery, vehicles, water, other, specifying the specific case.

For column 10: Indicate the list of plant species/genera surveyed using one row per plant species/genera.

For column 11: Indicate the months of the year when the survey was carried out.

For column 12: Indicate the details of the survey, depending on the specific legal requirements of each pest. Indicate with N/A when the information of certain column is not applicable.

For columns 13 and 14: Indicate the results, if applicable, providing the information available in the corresponding columns. 'Undetermined' are those analysed samples for which no result was obtained due to different factors (e.g. below detection level, unprocessed sample-not identified, old).

For column 15: Indicate the outbreak notifications of the year when the survey took place for findings in the BZ. The outbreak notification number does not need to be included when the competent authority has decided that the finding is one of the cases referred to in Article 14(2), Article 15(2) or Article 16 of Regulation (EU) 2016/2031. In this case, indicate the reason for not providing this information in column 16 ('Comments').

2. Instructions on how to fill in the template

Explain the underlying assumptions for the survey design per pest. Summarise and justify:

- the target population, epidemiological unit and inspection units,
- the detection method and method sensitivity,
- the risk factor(s), indicating the risk levels and corresponding relative risks and proportions of host plant population.

For column 1: Indicate the name of the geographical area, outbreak number or any information that allows identification of this demarcated area (DA) and the date when it was established.

For column 2: Indicate the size of the DA before the start of the survey.

For column 3: Indicate the size of the DA after the survey.

For column 4: Indicate the approach: Eradication or Containment. Please, include as many rows as necessary, depending on the number of DA per pest and the approaches these areas are subject to.

For column 5: Indicate the zone of the DA where the survey was carried out, including as many rows as necessary: Infested zone (IZ) or buffer zone (BZ), using separate rows. Where applicable, indicate the area of the IZ where the survey was carried out (e.g. last 20 km adjacent to the BZ, around nurseries, etc.) in different rows.

For column 6: Indicate the number and the description of the survey sites, by choosing one of the following entries for the description:

1. Open air (production area): 1.1 field (arable, pasture); 1.2. orchard/vineyard; 1.3. nursery; 1.4. forest;
2. Open air (other): 2.1. private gardens; 2.2. public sites; 2.3. conservation area; 2.4. wild plants in areas other than conservation areas; 2.5. other, with specification of the particular case (e.g. garden centre, commercial sites that uses wood packaging material, wood industry, wetlands, irrigation and drainage network, etc.);
3. Physically closed conditions: 3.1. greenhouse; 3.2. private site, other than greenhouse; 3.3. public site, other than greenhouse; 3.4. other, with specification of the particular case (e.g. garden centre, commercial sites that uses wood packaging material, wood industry).

For column 7: Indicate the months of the year when the surveys were carried out.

For column 8: Indicate the chosen target population providing accordingly the list of host species/genera and area covered. The target population is defined as the ensemble of inspection units. Its size is defined typically for agricultural areas as hectares, but could be lots, fields, greenhouses, etc. Please justify the choice made in the underlying assumptions. Indicate the inspection units surveyed. 'Inspection unit' means plants, plant parts, commodities, materials, pest vectors that had been scrutinised for identifying and detecting the pests.

For column 9: Indicate the epidemiological units surveyed, indicating its description and unit of measurement. 'Epidemiological unit' means a homogeneous area where the interactions between the pest, the host plants and the abiotic and biotic factors and conditions would result into the same epidemiology, should the pest be present. The epidemiological units are a subdivision of the target population that are homogenous in terms of epidemiology with at least one host plant. In some cases the whole host population in a region/area/country may be defined as epidemiological unit. They could be Nomenclature of territorial units for statistics (NUTS) regions, urban areas, forests, rose gardens or farms, or hectares. The choice of the epidemiological units has to be justified in the underlying assumptions.

For column 10: Indicate the methods used during the survey including the number of activities in each case, depending on the specific legal requirements of each pest. Indicate with N/A when the information of certain column is not available.

For column 11: Indicate an estimation of the sampling effectiveness. Sampling effectiveness means the probability of selecting infected plant parts from an infected plant. For vectors, it is the effectiveness of the method to capture a positive vector when it is present in the survey area. For soil, it is the effectiveness of selecting a soil sample containing the pest when the pest is present in the survey area.

For column 12: 'Method sensitivity' means the probability of a method to correctly detect pest presence. The method sensitivity is defined as the probability that a truly positive host tests positive. It is the multiplication of the sampling effectiveness (i.e. probability of selecting infected plant parts from an infected plant) by the diagnostic sensitivity (characterised by the visual inspection and/or laboratory test used in the identification process).

For column 13: Provide the risk factors in different rows, using as many rows as necessary. For each risk factor indicate the risk level and corresponding relative risk and proportion of host population.

For column B: Indicate the details of the survey, depending on the specific legal requirements for each pest. Indicate with N/A when the information of certain column is not applicable. The information to be provided in these columns is related to the information included in the column 10 'Detection methods'.

For column 18: Indicate the number of trapping sites in case this number differs from the number of traps (column 17) (e.g. the same trap is used in different places).

For column 21: Indicate the number of samples found positive, negative or undetermined. 'Undetermined' are those analysed samples for which no result was obtained due to different factors (e.g. below detection level, unprocessed sample-not identified, old).

For column 22: Indicate the outbreak notifications of the year when the survey took place. The outbreak notification number does not need to be included when the competent authority has decided that the finding is one of the cases referred to in Article 14(2), Article 15(2) or Article 16 of Regulation (EU) 2016/2031. In this case, indicate the reason for not providing this information in column 25 ('Comments').

For column 23: Indicate the sensitivity of the survey, as defined in International Standard for Phytosanitary Measures (ISPM) 31. This value of the achieved confidence level of pest freedom is calculated based on the examinations (and/or samples) performed given the method sensitivity and the design prevalence.

For column 24: Indicate the design prevalence based on a pre-survey estimate of the likely actual prevalence of the pest in the field. The design prevalence is set as a goal of the survey and corresponds to the compromise the risk managers are making between the risk of having the pest and the resources available for the survey. Typically, for a detection survey a value of 1 % is set.

DECISIONS

DECISION No 253

of the Management Board of the European Union Agency for Railways on internal rules concerning restrictions of certain data- subject rights in relation to the processing of personal data in the framework of activities carried out by the European Union Agency for Railways [2023/1585]

THE MANAGEMENT BOARD OF THE EUROPEAN UNION AGENCY FOR RAILWAYS,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EU) 2018/1725 of the European Parliament and of the Council of 23 October 2018 on the protection of natural persons with regard to the processing of personal data by the Union institutions, bodies, offices and agencies and on the free movement of such data, and repealing Regulation (EC) No 45/2001 and Decision No 1247/2002/EC ⁽¹⁾, and in particular Article 25 thereof,

Having regard to Regulation (EU) Regulation (EU) 2016/796 of the European Parliament and of the Council of 11 May 2016 on the European Union Agency for Railways and repealing Regulation (EC) No 881/2004 ⁽²⁾,

Having consulted the European Data Protection Supervisor,

Whereas:

- (1) The Agency is empowered to conduct administrative inquiries, pre-disciplinary, disciplinary and suspension proceedings, in accordance with the Staff Regulations of Officials of the European Union and the Conditions of Employment of Other Servants of the European Union, laid down in Council Regulation (EEC, Euratom, ECSC) No 259/68 ('Staff Regulations') ⁽³⁾, and with the Agency Decision of 8 July 2022 laying down general implementing provisions on the conduct of administrative inquiries and disciplinary proceedings. If required, it also notifies cases to OLAF.
- (2) Agency staff members are under an obligation to report potentially illegal activities, including fraud and corruption, which are detrimental to the interests of the Union. Staff members are also obliged to report conduct relating to the discharge of professional duties which may constitute a serious failure to comply with the obligations of officials of the Union. This is regulated by Agency Decision on internal rules concerning whistleblowing of 15 November 2018.
- (3) The Agency has put in place a policy to prevent and deal effectively with actual or potential cases of psychological or sexual harassment in the workplace, as provided for in its Decision ERA-ED-690/2013 adopting implementing measures pursuant to the Staff Regulations. The Decision establishes an informal procedure whereby the alleged victim of the harassment can contact the Agency's 'confidential' counsellors.
- (4) The Agency can also conduct investigations into potential breaches of security rules for European Union classified information ('EUCI'), based on its Information and IT Policy adopting security rules for protecting EUCI.
- (5) The Agency is subject to both internal and external audits concerning its activities.
- (6) In the context of such administrative inquiries, audits and investigations, the Agency cooperates with other Union institutions, bodies, offices and agencies.

⁽¹⁾ OJ L 295, 21.11.2018, p. 39.

⁽²⁾ OJ L 138, 26.5.2016, p. 1, hereinafter referred to as the 'Agency Regulation'.

⁽³⁾ Regulation (EEC, Euratom, ECSC) No 259/68 of the Council of 29 February 1968 laying down the Staff Regulations of Officials and the Conditions of Employment of Other Servants of the European Communities and instituting special measures temporarily applicable to officials of the Commission (OJ L 56, 4.3.1968, p. 1).

- (7) The Agency can cooperate with third countries' national authorities and international organisations, either at their request or on its own initiative.
- (8) The Agency can also cooperate with EU Member States' public authorities, either at their request or on its own initiative.
- (9) The Agency is involved in cases before the Court of Justice of the European Union when it either refers a matter to the Court, defends a decision it has taken and which has been challenged before the Court, or intervenes in cases relevant to its tasks. In this context, the Agency might need to preserve the confidentiality of personal data contained in documents obtained by the parties or the interveners.
- (10) To fulfil its tasks, the Agency collects and processes information and several categories of personal data, including identification data of natural persons, contact information, professional roles and tasks, information on private and professional conduct and performance, and financial data. The Agency acts as data controller.
- (11) Under the Regulation (EU) 2018/1725 ('the Regulation'), the Agency is therefore obliged to provide information to data subjects on those processing activities and to respect their rights as data subjects.
- (12) The Agency might be required to reconcile those rights with the objectives of administrative inquiries, audits, investigations and court proceedings. It might also be required to balance a data subject's rights against the fundamental rights and freedoms of other data subjects. To that end, Article 25 of the Regulation gives the Agency the possibility to restrict, under strict conditions, the application of Articles 14 to 22, 35 and 36 of the Regulation, as well as its Article 4 in so far as its provisions correspond to the rights and obligations provided for in Articles 14 to 20. Unless restrictions are provided for in a legal act adopted on the basis of the Treaties, it is necessary to adopt internal rules under which the Agency is entitled to restrict those rights.
- (13) The Agency might, for instance, need to restrict the information it provides to a data subject about the processing of his or her personal data during the preliminary assessment phase of an administrative inquiry or during the inquiry itself, prior to a possible dismissal of case or at the pre-disciplinary stage. In certain circumstances, providing such information might seriously affect the Agency's capacity to conduct the inquiry in an effective way, whenever, for example, there is a risk that the person concerned might destroy evidence or interfere with potential witnesses before they are interviewed. The Agency might also need to protect the rights and freedoms of witnesses as well as those of other persons involved.
- (14) It might be necessary to protect the anonymity of a witness or whistle-blower who has asked not to be identified. In such a case, the Agency might decide to restrict access to the identity, statements and other personal data of such persons, in order to protect their rights and freedoms.
- (15) It might be necessary to protect confidential information concerning a staff member who has contacted Agency confidential counsellors in the context of a harassment procedure. In such cases, the Agency might need to restrict access to the identity, statements and other personal data of the alleged victim, the alleged harasser and other persons involved, in order to protect the rights and freedoms of all concerned.
- (16) The Agency should apply restrictions only when they respect the essence of fundamental rights and freedoms, are strictly necessary and are a proportionate measure in a democratic society. The Agency should give reasons explaining the justification for those restrictions.
- (17) In application of the principle of accountability, the Agency should keep a record of its application of restrictions.
- (18) When processing personal data exchanged with other organisations in the context of its tasks, the Agency and those organisations should consult each other on potential grounds for imposing restrictions and the necessity and proportionality of those restrictions, unless this would jeopardise the activities of the Agency.

- (19) Article 25(6) of the Regulation obliges the controller to inform data subjects of the principal reasons on which the application of the restriction is based and of their right to lodge a complaint with the EDPS.
- (20) Pursuant to Article 25(8) of the Regulation, the Agency is entitled to defer, omit or deny the provision of information on the reasons for the application of a restriction to the data subject if this would in any way cancel the effect of the restriction. The Agency should assess on a case-by-case basis whether the communication of the restriction would cancel its effect.
- (21) The Agency should lift the restriction as soon as the conditions that justify the restriction no longer apply, and assess those conditions on a regular basis.
- (22) To guarantee utmost protection of the rights and freedoms of data subjects and in accordance with Article 44(1) of the Regulation, the DPO should be consulted in due time of any restrictions that may be applied and verify their compliance with this Decision.
- (23) Articles 16(5) and 17(4) of the Regulation provide for exceptions to data subjects' right to information and right of access. If these exceptions apply, the Agency does not need to apply a restriction under this Decision,

HAS ADOPTED THIS DECISION:

Article 1

Subject matter and scope

1. This Decision lays down rules relating to the conditions under which the Agency may restrict the application of Articles 4, 14 to 22, 35 and 36, pursuant to Article 25 of the Regulation.
2. The Agency, as controller, is represented by its Executive Director.

Article 2

Restrictions

1. The Agency may restrict the application of Articles 14 to 22, 35 and 36, and Article 4 of the Regulation in so far as its provisions correspond to the rights and obligations provided for in Articles 14 to 20:
 - (a) pursuant to Article 25(1)(b), (c), (f), (g) and (h) of the Regulation, when conducting administrative inquiries, pre-disciplinary, disciplinary or suspension proceedings under Article 86 and Annex IX of the Staff Regulations and the Agency Management Board Decision No 297 ⁽⁴⁾, and when notifying cases to OLAF;
 - (b) pursuant to Article 25(1)(h) of the Regulation, when ensuring that Agency staff members may report facts confidentially where they believe there are serious irregularities, as set out in the Agency Management Board Decision No 183 ⁽⁵⁾ on whistleblowing and Decision No 8 ⁽⁶⁾ on internal investigations;
 - (c) pursuant to Article 25(1)(h) of the Regulation, when ensuring that Agency staff members are able to report to confidential counsellors in the context of a harassment procedure, as defined by the Agency Decision ERA-ED-690-2013 ⁽⁷⁾;

⁽⁴⁾ Decision No 297 of the Management Board of the European Union Agency laying down general implementing provisions on the conduct of administrative inquiries and disciplinary proceedings dated 8 July 2022.

⁽⁵⁾ Decision No 183 of the Management Board of the European Union Agency for Railways on the guidelines on whistleblowing dated 15 November 2018.

⁽⁶⁾ Decision No 8 of the Administrative Board of the European Railway Agency concerning the terms and conditions for internal investigations in relation to the prevention of fraud, corruption and any illegal activity detrimental to the Communities' interests dated 17 October 2006.

⁽⁷⁾ Decision No 690/2013 of the European Railway Agency on the policy on protecting the dignity of the person and preventing psychological harassment and sexual harassment.

- (d) pursuant to Article 25(1)(c), (g) and (h) of the Regulation, when conducting internal audits in relation to activities or departments of the Agency;
 - (e) pursuant to Article 25(1)(c), (d), (g) and (h) of the Regulation, when providing or receiving assistance to or from other Union institutions, bodies, offices and agencies or cooperating with them in the context of activities under points (a) to (d) of this paragraph and pursuant to relevant service level agreements, memoranda of understanding and cooperation agreements;
 - (f) pursuant to Article 25(1)(c), (g) and (h) of the Regulation, when providing or receiving assistance to or from third countries national authorities and international organisations or cooperating with such authorities and organisations, either at their request or on its own initiative;
 - (g) pursuant to Article 25(1)(c), (g) and (h) of the Regulation, when providing or receiving assistance and cooperation to and from EU Member States' public authorities, either at their request or on its own initiative;
 - (h) pursuant to Article 25(1)(e) of the Regulation, when processing personal data in documents obtained by the parties or interveners in the context of proceedings before the Court of Justice of the European Union.
2. Any restriction shall respect the essence of fundamental rights and freedoms and be necessary and proportionate in a democratic society.
3. A necessity and proportionality test shall be carried out on a case-by-case basis before restrictions are applied. Restrictions shall be limited to what is strictly necessary to achieve their objective.
4. For accountability purposes, the Agency shall draw up a record describing the reasons for restrictions that are applied, which grounds among those listed in paragraph 1 apply and the outcome of the necessity and proportionality test. Those records shall be part of a register, which shall be made available on request to the EDPS. The Agency shall prepare periodic reports on the application of Article 25 of the Regulation.
5. When processing personal data received from other organisations in the context of its tasks, the Agency shall consult those organisations on potential grounds for imposing restrictions and the necessity and proportionality of the restrictions concerned, unless this would jeopardise the activities of the Agency.

Article 3

Risks to the rights and freedoms of data subjects

1. Assessments of the risks to the rights and freedoms of data subjects of imposing restrictions and details of the period of application of those restrictions shall be registered in the record of processing activities maintained by the Agency under Article 31 of the Regulation. They shall also be recorded in any data protection impact assessments regarding those restrictions conducted under Article 39 of the Regulation.
2. Whenever the Agency assesses the necessity and proportionality of a restriction it shall consider the potential risks to the rights and freedoms of the data subject.

Article 4

Safeguards and storage periods

1. The Agency shall implement safeguards to prevent abuse and unlawful access or transfer of the personal data in respect of which restrictions apply or could be applied. Such safeguards shall include technical and organisational measures and be detailed as necessary in Agency internal decisions, procedures and implementing rules. The safeguards shall include:
- (a) a clear definition of roles, responsibilities and procedural steps;
 - (b) if appropriate, a secure electronic environment which prevents unlawful and accidental access or transfer of electronic data to unauthorised persons;

- (c) if appropriate, secure storage and processing of paper-based documents;
 - (d) due monitoring of restrictions and a periodic review of their application.
2. The reviews referred to in point (d) shall be conducted at least every six months.
 3. Restrictions shall be lifted as soon as the circumstances that justify them no longer apply.
 4. The personal data shall be retained in accordance with the applicable Agency retention rules, to be defined in the data protection records maintained under Article 31 of the Regulation. At the end of the retention period, the personal data shall be deleted, anonymised or transferred to archives in accordance with Article 13 of the Regulation.

Article 5

Involvement of the Data Protection Officer

1. The Agency DPO shall be informed without undue delay whenever data subject rights are restricted in accordance with this Decision. He or she shall be given access to the associated records and any documents concerning the factual or legal context.
2. The Agency DPO may request a review of the application of a restriction. The Agency shall inform its DPO in writing of the outcome of the review.
3. The Agency shall document the involvement of the DPO in the application of restrictions, including what information is shared with him or her.

Article 6

Information to data subjects on restrictions of their rights

1. The Agency shall include a section in the data protection notices published on its website and/or intranet providing general information to data subjects on the potential for restriction of data subjects' rights pursuant to Article 2(1). The information shall cover which rights may be restricted, the grounds on which restrictions may be applied and their potential duration.
2. The Agency shall inform data subjects individually, in writing and without undue delay of ongoing or future restrictions of their rights. The Agency shall inform the data subject of the principal reasons on which the application of the restriction is based, of their right to consult the DPO with a view to challenging the restriction and of their rights to lodge a complaint with the EDPS.
3. The Agency may defer, omit or deny the provision of information concerning the reasons for a restriction and the right to lodge a complaint with the EDPS for as long as it would cancel the effect of the restriction. Assessment of whether this would be justified shall take place on a case-by-case basis. As soon as it would no longer cancel the effect of the restriction, the Agency shall provide the information to the data subject.

Article 7

Communication of a personal data breach to the data subject

1. Where the Agency is under an obligation to communicate a data breach under Article 35(1) of the Regulation, it may, in exceptional circumstances, restrict such communication wholly or partly. It shall document in a note the reasons for the restriction, the legal ground for it under Article 2 and an assessment of its necessity and proportionality. The note shall be communicated to the EDPS at the time of the notification of the personal data breach.
2. Where the reasons for the restriction no longer apply, the Agency shall communicate the personal data breach to the data subject concerned and inform him or her of the principal reasons for the restriction and of his or her right to lodge a complaint with the EDPS.

*Article 8***Confidentiality of electronic communications**

1. In exceptional circumstances, the Agency may restrict the right to confidentiality of electronic communications under Article 36 of the Regulation. Such restrictions shall comply with Directive 2002/58/EC of the European Parliament and of the Council ⁽⁸⁾.
2. Notwithstanding Article 6(3), where the Agency restricts the right to confidentiality of electronic communications, it shall inform the data subject concerned, in its reply to any request from the data subject, of the principal reasons on which the application of the restriction is based and of his or her right to lodge a complaint with the EDPS.

*Article 9***Entry into force**

This Decision shall enter into force on the twentieth day following that of its publication in the *Official Journal of the European Union*.

For the Management Board, 17 February 2021.

The Chairwoman
Clio LIÉGEOIS

⁽⁸⁾ Directive 2002/58/EC of the European Parliament and of the Council of 12 July 2002 concerning the processing of personal data and the protection of privacy in the electronic communications sector (Directive on privacy and electronic communications) (OJ L 201, 31.7.2002, p. 37).

COMMISSION IMPLEMENTING DECISION (EU) 2023/1586**of 26 July 2023****on harmonised standards for machinery drafted in support of Directive 2006/42/EC of the European Parliament and of the Council**

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EU) No 1025/2012 of the European Parliament and of the Council of 25 October 2012 on European Standardisation, amending Council Directives 89/686/EEC and 93/15/EEC and Directives 94/9/EC, 94/25/EC, 95/16/EC, 97/23/EC, 98/34/EC, 2004/22/EC, 2007/23/EC, 2009/23/EC and 2009/105/EC of the European Parliament and of the Council and repealing Council Decision 87/95/EEC and Decision No 1673/2006/EC of the European Parliament and of the Council ⁽¹⁾, and in particular Article 10(6) thereof,

Having regard to Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC ⁽²⁾, and in particular Article 7(3) thereof,

Whereas:

- (1) In accordance with Article 7 of Directive 2006/42/EC machinery manufactured in conformity with a harmonised standard, the reference to which has been published in the *Official Journal of the European Union*, is to be presumed to comply with the essential health and safety requirements covered by such a harmonised standard.
- (2) By letter M/396 of 19 December 2006, the Commission made a request to the European Committee for Standardization (CEN) and the European Committee for Electrotechnical Standardization (Cenelec) (the Request) for the drafting, the revision and the completion of the work on harmonised standards in support of Directive 2006/42/EC to take account of changes introduced by that Directive in comparison with Directive 98/37/EC of the European Parliament and of the Council ⁽³⁾.
- (3) On the basis of the Request, CEN and Cenelec drafted the following new harmonised standards: EN 280-2:2022 on additional safety requirements for load lifting appliances on the extending lifting structure and work platform, EN ISO 8528-10:2022 on measurement of airborne noise with regards to reciprocating internal combustion engine, EN 12453:2017+A1:2021 on requirements and test methods with regards to power operated doors, EN 16517:2021 on safety with regards to mobile yarders for timber logging, EN 17003:2021 on safety requirements with regards to Roller brake testers for vehicles of more than 3,5 tons GVW, EN 17088:2021 on safety with regards to side curtain ventilation systems, EN 17281:2021 on safety requirements with regards to vehicle cleaning equipment, EN 17348:2022 on requirements for design and testing of vacuum cleaners for use in potentially explosive atmospheres, EN 17352:2022 on requirements and safety methods with regards to power operated pedestrian entrance control equipment, EN 17624:2022 on the determination of explosion limits of gases and vapours at elevated pressures, elevated temperatures or with oxidizers other than air, EN ISO 18063-2:2021 on visibility test methods and their verification with regard of slewing rough-terrain variable-reach trucks, EN ISO 19085-15:2021 on the safety of presses with regards to woodworking machines, EN ISO 19472-2:2022 on traction aid winches, EN ISO 22291:2022 on safety requirements for wetlaid-nonwoven machinery, EN ISO 28927-13:2022 on test methods for evaluation of vibration emission with regards to fastener driving tools, EN IEC 60335-2-41:2021 with EN IEC 60335-2-41:2021/A11:2021 on particular safety requirements for pumps with regards to household and similar electrical appliance, EN IEC 62841-3-5:2022 with EN IEC 62841-3-5:2022/A11:2022 on particular safety requirements for transportable band saws, EN IEC 62841-3-7:2021 with EN IEC 62841-3-7:2021/A11:2021 on particular safety requirements for transportable wall saws, EN IEC 62841-4-5:2021

⁽¹⁾ OJ L 316, 14.11.2012, p. 12.

⁽²⁾ OJ L 157, 9.6.2006, p. 24.

⁽³⁾ Directive 98/37/EC of the European Parliament and of the Council of 22 June 1998 on the approximation of the laws of the Member States relating to machinery (OJ L 207, 23.7.1998, p. 1).

with EN IEC 62841-4-5:2021/A11:2021 on particular safety requirements for grass shears, as well as EN IEC 62841-4-7:2022 with EN IEC 62841-4-7:2022/A11:2022 on particular safety requirements for pedestrian controlled walk-behind lawn scarifiers and aerators.

- (4) Furthermore, on the basis of the Request, CEN and Cenelec revised the following harmonised standards, the references of which are published in the C series of the *Official Journal of the European Union* by means of the Commission Communication 2018/C 092/01 ⁽⁴⁾, in order to adapt them to technological progress: EN 280:2013+A1:2015, EN 303-5:2021, EN 415-3:1999+A1:2009, EN 474-1:2006+A6:2019, EN 474-2:2006+A1:2008, EN 474-3:2006+A1:2009, EN 474-4:2006+A2:2012, EN 474-5:2006+A3:2013, EN 474-6:2006+A1:2009, EN 474-7:2006+A1:2009, EN 474-8:2006+A1:2009, EN 474-9:2006+A1:2009, EN 474-10:2006+A1:2009, EN 474-11:2006+A1:2008, EN 474-12:2006+A1:2008, EN 500-4:2011, EN 528:2008, EN 619:2002+A1:2010, EN 620:2002+A1:2010, EN 703:2004+A1:2009, EN 710:1997+A1:2010 with EN 710:1997+A1:2010/AC:2012, EN 746-3:1997+A1:2009, EN 1034-4:2005+A1:2009, EN 1807-1:2013, EN ISO 3691-6:2015 with EN ISO 3691-6:2015/AC:2016, EN ISO 4254-1:2015, EN ISO 4254-6:2009 with EN ISO 4254-6:2009/AC:2010, EN ISO 11850:2011 with EN ISO 11850:2011/A1:2016, EN ISO 11680-1:2011, EN ISO 11680-2:2011, EN ISO 11681-1:2011, EN ISO 11681-2:2011 with EN ISO 11681-2:2011/A1:2017, EN 12012-4:2006+A1:2008, EN 12158-1:2000+A1:2010, EN 12331:2003+A2:2010, EN 12355:2003+A1:2010, EN 12418:2000+A1:2009, EN 12750:2013, EN 13001-3-5:2016, EN 13019:2001+A1:2008, EN 13021:2003+A1:2008, EN 13524:2003+A2:2014, EN 13617-1:2012, EN 13732:2013, EN 13862:2001+A1:2009, EN 13870:2015, EN 13885:2005+A1:2010, EN 15163:2008, EN 15967:2011, EN 16228-1:2014, EN 16228-2:2014, EN 16228-3:2014, EN 16228-4:2014, EN 16228-5:2014, EN 16228-6:2014, EN 16228-7:2014, EN ISO 18217:2015, EN ISO 19085-2:2017, EN ISO 19085-3:2017, EN ISO 22867:2011, EN ISO 28881:2013 with EN ISO 28881:2013/AC:2013, EN ISO 28927-1:2009 with EN ISO 28927-1:2009/A1:2017, EN 60335-2-77:2010, EN 60335-2-89:2010 with EN 60335-2-89:2010/A1:2016 and EN 60335-2-89:2010/A2:2017, EN 62841-1:2015 with EN 62841-1:2015/AC:2015, as well as EN 60745-2-3:2011 with EN 60745-2-3:2011/A11:2014 and EN 60745-2-3:2011/A12:2014 and EN 60745-2-3:2011/A13:2015 and EN 60745-2-3:2011/A2:2013.
- (5) This resulted in the adoption of the following amending harmonised standards: EN 280-1:2022, EN 303-5:2021+A1:2022, EN 415-3:2021, EN 474-1:2021, EN 474-2:2022, EN 474-3:2022, EN 474-4:2022, EN 474-5:2022, EN 474-6:2022, EN 474-7:2022, EN 474-8:2022, EN 474-9:2022, EN 474-10:2022, EN 474-11:2022, EN 474-12:2022, EN 474-13:2022, EN 528:2021+A1:2022, EN 619:2022, EN 620:2021, EN 703:2021, EN 746-3:2021, EN 1034-4:2021, EN ISO 3691-6:2021, EN ISO 4254-1:2015 with EN ISO 4254-1:2015/A1:2021, EN ISO 4254-6:2020 with EN ISO 4254-6:2020/A11:2021, EN ISO 4254-17:2022, EN ISO 11680-1:2021, EN ISO 11680-2:2021, EN ISO 11681-1:2022, EN ISO 11681-2:2022, EN ISO 11806-1:2022, EN ISO 11806-2:2022, EN ISO 11850:2011 with EN ISO 11850:2011/A1:2016 and EN ISO 11850:2011/A2:2022, EN 12012-4:2019+A1:2021, EN 12158-1:2021, EN 12331:2021, EN 12355:2022, EN 12418:2021, EN 13001-3-5:2016+A1:2021, EN 13617-1:2021, EN 13732:2022, EN 13862:2021, EN 13870:2015+A1:2021, EN 13885:2022, EN 15163-1:2022, EN 15163-2:2022, EN 15967:2022, EN 16228-1:2014+A1:2021, EN 16228-2:2014+A1:2021, EN 16228-3:2014+A1:2021, EN 16228-4:2014+A1:2021, EN 16228-5:2014+A1:2021, EN 16228-6:2014+A1:2021, EN 16228-7:2014+A1:2021, EN 17106-1:2021, EN 17106-2:2021, EN 17106-3-1:2021, EN 17106-3-2:2021, EN 17106-4:2021, EN ISO 19085-2:2021, EN ISO 19085-3:2021, EN ISO 19085-14:2021, EN ISO 19085-16:2021, EN ISO 19085-17:2021, EN ISO 22867:2021, EN ISO 23062:2022, EN ISO 28881:2022, EN ISO 28927-1:2019, EN IEC 60335-2-89:2022 with EN IEC 60335-2-89:2022/A11:2022, EN 62841-1:2015 with EN 62841-1:2015/AC:2015 and EN 62841-1:2015/A11:2022, EN IEC 62841-2-3:2021 with EN IEC 62841-2-3:2021/A11:2021, as well as EN IEC 62841-4-3:2021 with EN IEC 62841-4-3:2021/A11:2021.
- (6) In addition, on the basis of the Request, CEN and Cenelec amended the following standards, the references of which are included in Annex I to Commission Implementing Decision (EU) 2019/436 ⁽⁵⁾: EN 12301:2019, EN 12385-5:2021, EN 16952:2018, EN 62841-2-1:2018 with EN 62841-2-1:2018/A11:2019, EN 62841-3-1:2014

⁽⁴⁾ Commission Communication 2018/C 092/01 in the framework of the implementation of the Directive 2006/42/EC of the European Parliament and of the Council on machinery, and amending Directive 95/16/EC (OJ C 92, 9.3.2018, p. 1).

⁽⁵⁾ Commission Implementing Decision (EU) 2019/436 of 18 March 2019 on the harmonised standards for machinery drafted in support of Directive 2006/42/EC of the European Parliament and of the Council (OJ L 75, 19.3.2019, p. 108).

with EN 62841-3-1:2014/AC:2015 and EN 62841-3-1:2014/A11:2017, EN 62841-3-10:2015 with EN 62841-3-10:2015/AC:2016-07 and EN 62841-3-10:2015/A11:2017, EN 62841-3-6:2014 with EN 62841-3-6:2014/AC:2015 and EN 62841-3-6:2014/A11:2017, and EN 62841-4-2:2019.

- (7) This resulted in the adoption of the following amending harmonised standards: EN 12301:2019/AC:2021, EN 12385-5:2021 with EN 12385-5:2021/AC:2021, EN 16952:2018+A1:2021, EN 62841-2-1:2018 with EN 62841-2-1:2018/A11:2019 and EN 62841-2-1:2018/A12:2022 and EN 62841-2-1:2018/A1:2022, EN 62841-3-1:2014 with EN 62841-3-1:2014/AC:2015 and EN 62841-3-1:2014/A11:2017 and EN 62841-3-1:2014/A1:2021 and EN 62841-3-1:2014/A12:2021, EN 62841-3-6:2014 with EN 62841-3-6:2014/AC:2015 and EN 62841-3-6:2014/A11:2017 and EN 62841-3-6:2014/A1:2022 and EN 62841-3-6:2014/A12:2022, EN 62841-3-10:2015 with EN 62841-3-10:2015/AC:2016-07 and EN 62841-3-10:2015/A11:2017 and EN 62841-3-10:2015/A1:2022 and EN 62841-3-10:2015/A12:2022, as well as EN 62841-4-2:2019 with EN 62841-4-2:2019/A11:2022 and EN 62841-4-2:2019/A1:2022.
- (8) The Commission together with CEN and Cenelec has assessed whether the standards drafted, revised and amended by CEN and Cenelec comply with the Request.
- (9) The harmonised standards drafted, revised and amended by CEN and Cenelec on the basis of the Request, except for harmonised standard EN ISO 11850:2011 with EN ISO 11850:2011/A1:2016 and EN ISO 11850:2011/A2:2022, satisfy the safety requirements which they aim to cover and which are set out in Directive 2006/42/EC.
- (10) Having examined the standard EN ISO 11850:2011 with EN ISO 11850:2011/A1:2016 and EN ISO 11850:2011/A2:2022 together with the representatives of Member States and stakeholders in the Machinery Expert Group, the Commission concluded that the standard fails to meet the essential health and safety requirements set out in points 1.1.6, 1.5.15 and 1.6.2 of Annex I to Directive 2006/42/EC, namely the requirement concerning accommodating the variability of the operator's physical dimensions, the requirement that parts of the machinery where persons are liable to move about or stand must be designed and constructed in such a way as to prevent persons slipping, tripping or falling on or off these parts, and the requirement that machinery must be designed and constructed in such a way as to allow access in safety to all areas where intervention is necessary during operation, adjustment and maintenance of the machinery. In particular, the standard includes a derogation to allow a first access step height of up to 700 mm instead of 550 mm on wheeled skidders and wheeled feller-bunchers, but it does not address appropriate ergonomic principles and safe access, which in some cases may lead to slipping, tripping or falling of persons.
- (11) It is therefore appropriate to publish the references of those standards, with restriction where relevant, in the *Official Journal of the European Union*, together with references of any relevant amending or correcting standards thereto.
- (12) The references of harmonised standards drafted in support of Directive 2006/42/EC are currently published in Communication 2018/C 092/01 and Commission Implementing Decision (EU) 2019/436.
- (13) In the interests of clarity and rationality, a complete list of references of harmonised standards drafted in support of Directive 2006/42/EC and satisfying the requirements they aim to cover should be published in a single act.
- (14) The references of harmonised standards published in Annex I to Implementing Decision (EU) 2019/436, as well as those published in Communication 2018/C 092/01, should be published in a new consolidated Annex to this Decision.
- (15) Moreover, Annexes II and IIA to Implementing Decision (EU) 2019/436 list the specific references of harmonised standards that are published with restrictions, whereas such restrictions are not published separately in the Communication 2018/C 092/01. In the interests of clarity and rationality, references of harmonised standards published with restrictions should be published in a new consolidated Annex to this Decision. Any references in Annexes II and IIA that have exhausted their effects should be omitted.

- (16) The references of harmonised standards listed in Annex III to Implementing Decision (EU) 2019/436, as well as those in the fifth column of the Communication 2018/C 092/01, have been withdrawn from the *Official Journal of the European Union* as from the dates set out in the respective tables.
- (17) As the result of the work by CEN and Cenelec on the basis of the Request, several harmonised standards published in the C series of the *Official Journal of the European Union* have been replaced, revised or amended, as is also the case for those published in Annex I to Implementing Decision (EU) 2019/436. It is therefore necessary to also withdraw the references of those standards from the *Official Journal of the European Union* and set the dates of withdrawal.
- (18) In the interests of clarity and rationality, references of harmonised standards that have been withdrawn should be published in a separate new consolidated Annex to this Decision. Any references with withdrawal dates before the entry into force of this Decision are no longer relevant and should be omitted.
- (19) In order to give manufacturers sufficient time to prepare for the application of the new standards, revised standards or amendments to standards, it is necessary to defer the withdrawal of the references of those harmonised standards, as appropriate.
- (20) Many of the references of harmonised standards published by Communication 2018/C 092/01 have already been withdrawn by Implementing Decision (EU) 2019/436.
- (21) In the interests of clarity and rationality, both Communication 2018/C 092/01 and Implementing Decision (EU) 2019/436 should be repealed. In order to give manufacturers sufficient time to adapt their products to the revised versions of the standards concerned, Communication 2018/C 092/01 and Implementing Decision (EU) 2019/436 should continue to apply to the relevant standards for a transitional period.
- (22) Compliance with a harmonised standard confers a presumption of conformity with the corresponding essential requirements set out in Union harmonisation legislation from the date of publication of the reference of such standard in the *Official Journal of the European Union*. This Decision should therefore enter into force on the date of its publication,

HAS ADOPTED THIS DECISION:

Article 1

The references of harmonised standards for machinery drafted in support of Directive 2006/42/EC listed in Annex I of this Decision are hereby published in the *Official Journal of the European Union*. The references listed in rows 121, 266, 343, 405 and 495 of that Annex are published with restrictions.

Article 2

Communication 2018/C 092/01 is repealed.

However, it shall continue to apply to the references of harmonised standards listed in Annex II to this Decision until the dates of withdrawal of those references set out in that Annex.

Article 3

Implementing Decision (EU) 2019/436 is repealed.

However, it shall continue to apply to the references of harmonised standards listed in Annex III to this Decision until the dates of withdrawal of those references set out in that Annex.

Article 4

This Decision shall enter into force on the day of its publication in the *Official Journal of the European Union*.

Done at Brussels, 26 July 2023.

For the Commission
The President
Ursula VON DER LEYEN

ANNEX I

PART ONE

A-TYPE STANDARDS

1. Explanatory note.

A-type standards specify basic concepts, terminology and design principles applicable to all categories of machinery. Application of such standards alone, although providing an essential framework for the correct application of the Machinery Directive, is not sufficient to ensure conformity with the relevant essential health and safety requirements of the Directive and therefore does not give a full presumption of conformity.

2. List of references of standards.

1.	EN 1127-2:2014 Explosive atmospheres - Explosion prevention and protection - Part 2: Basic concepts and methodology for mining
2.	EN ISO 12100:2010 Safety of machinery - General principles for design - Risk assessment and risk reduction (ISO 12100:2010)

PART TWO

B-TYPE STANDARDS

1. Explanatory note.

B-type standards deal with specific aspects of machinery safety or specific types of safeguard that can be used across a wide range of categories of machinery. Application of the specifications of B-type standards confers a presumption of conformity with the essential health and safety requirements of the Machinery Directive that they cover when a C-type standard or the manufacturer's risk assessment shows that a technical solution specified by the B-type standard is adequate for the particular category or model of machinery concerned. Application of B-type standards that give specifications for safety components that are independently placed on the market confers a presumption of conformity for the safety components concerned and for the essential health and safety requirements covered by the standards.

2. List of references of standards.

1.	EN 547-1:1996+A1:2008 Safety of machinery - Human body measurements - Part 1: Principles for determining the dimensions required for openings for whole body access into machinery
2.	EN 547-2:1996+A1:2008 Safety of machinery - Human body measurements - Part 2: Principles for determining the dimensions required for access openings
3.	EN 547-3:1996+A1:2008 Safety of machinery - Human body measurements - Part 3: Anthropometric data
4.	EN 614-1:2006+A1:2009 Safety of machinery - Ergonomic design principles - Part 1: Terminology and general principles

5.	EN 614-2:2000+A1:2008 Safety of machinery - Ergonomic design principles - Part 2: Interactions between the design of machinery and work tasks
6.	EN 842:1996+A1:2008 Safety of machinery - Visual danger signals - General requirements, design and testing
7.	EN 894-1:1997+A1:2008 Safety of machinery - Ergonomics requirements for the design of displays and control actuators - Part 1: General principles for human interactions with displays and control actuators
8.	EN 894-2:1997+A1:2008 Safety of machinery - Ergonomics requirements for the design of displays and control actuators - Part 2: Displays
9.	EN 894-3:2000+A1:2008 Safety of machinery - Ergonomics requirements for the design of displays and control actuators - Part 3: Control actuators
10.	EN 894-4:2010 Safety of machinery - Ergonomics requirements for the design of displays and control actuators - Part 4: Location and arrangement of displays and control actuators
11.	EN 981:1996+A1:2008 Safety of machinery - System of auditory and visual danger and information signals
12.	EN 1005-1:2001+A1:2008 Safety of machinery - Human physical performance - Part 1: Terms and definitions
13.	EN 1005-2:2003+A1:2008 Safety of machinery - Human physical performance - Part 2: Manual handling of machinery and component parts of machinery
14.	EN 1005-3:2002+A1:2008 Safety of machinery - Human physical performance - Part 3: Recommended force limits for machinery operation
15.	EN 1005-4:2005+A1:2008 Safety of machinery - Human physical performance - Part 4: Evaluation of working postures and movements in relation to machinery
16.	EN 1032:2003+A1:2008 Mechanical vibration - Testing of mobile machinery in order to determine the vibration emission value
17.	EN 1093-1:2008 Safety of machinery - Evaluation of the emission of airborne hazardous substances - Part 1: Selection of test methods

18.	EN 1093-2:2006+A1:2008 Safety of machinery - Evaluation of the emission of airborne hazardous substances - Part 2: Tracer gas method for the measurement of the emission rate of a given pollutant
19.	EN 1093-3:2006+A1:2008 Safety of machinery - Evaluation of the emission of airborne hazardous substances - Part 3: Test bench method for the measurement of the emission rate of a given pollutant
20.	EN 1093-4:1996+A1:2008 Safety of machinery - Evaluation of the emission of airborne hazardous substances - Part 4: Capture efficiency of an exhaust system - Tracer method
21.	EN 1093-6:1998+A1:2008 Safety of machinery - Evaluation of the emission of airborne hazardous substances - Part 6: Separation efficiency by mass, unducted outlet
22.	EN 1093-7:1998+A1:2008 Safety of machinery - Evaluation of the emission of airborne hazardous substances - Part 7: Separation efficiency by mass, ducted outlet
23.	EN 1093-8:1998+A1:2008 Safety of machinery - Evaluation of the emission of airborne hazardous substances - Part 8: Pollutant concentration parameter, test bench method
24.	EN 1093-9:1998+A1:2008 Safety of machinery - Evaluation of the emission of airborne hazardous substances - Part 9: Pollutant concentration parameter, room method
25.	EN 1093-11:2001+A1:2008 Safety of machinery - Evaluation of the emission of airborne hazardous substances - Part 11: Decontamination index
26.	EN 1127-1:2019 Explosive atmospheres - Explosion prevention and protection - Part 1: Basic concepts and methodology
27.	EN 1299:1997+A1:2008 Mechanical vibration and shock - Vibration isolation of machines - Information for the application of source isolation
28.	EN 1837:2020 Safety of machinery - Integral lighting of machines
29.	EN ISO 3741:2010 Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Precision methods for reverberation test rooms (ISO 3741:2010)

30.	EN ISO 3743-1:2010 Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering methods for small movable sources in reverberant fields - Part 1: Comparison method for a hard-walled test room (ISO 3743-1:2010)
31.	EN ISO 3743-2:2019 Acoustics - Determination of sound power levels of noise sources using sound pressure - Engineering methods for small, movable sources in reverberant fields - Part 2: Methods for special reverberation test rooms (ISO 3743-2:2018)
32.	EN ISO 3744:2010 Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering methods for an essentially free field over a reflecting plane (ISO 3744:2010)
33.	EN ISO 3745:2012 Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Precision methods for anechoic rooms and hemi-anechoic rooms (ISO 3745:2012) EN ISO 3745:2012/A1:2017
34.	EN ISO 3746:2010 Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Survey method using an enveloping measurement surface over a reflecting plane (ISO 3746:2010)
35.	EN ISO 3747:2010 Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering/survey methods for use in situ in a reverberant environment (ISO 3747:2010)
36.	EN ISO 4413:2010 Hydraulic fluid power - General rules and safety requirements for systems and their components (ISO 4413:2010)
37.	EN ISO 4414:2010 Pneumatic fluid power - General rules and safety requirements for systems and their components (ISO 4414:2010)
38.	EN ISO 4871:2009 Acoustics - Declaration and verification of noise emission values of machinery and equipment (ISO 4871:1996)
39.	EN ISO 5136:2009 Acoustics - Determination of sound power radiated into a duct by fans and other air-moving devices - In-duct method (ISO 5136:2003)
40.	EN ISO 7235:2009 Acoustics - Laboratory measurement procedures for ducted silencers and air-terminal units - Insertion loss, flow noise and total pressure loss (ISO 7235:2003)

41.	EN ISO 7731:2008 Ergonomics - Danger signals for public and work areas - Auditory danger signals (ISO 7731:2003)
42.	EN ISO 9614-1:2009 Acoustics - Determination of sound power levels of noise sources using sound intensity - Part 1: Measurement at discrete points (ISO 9614-1:1993)
43.	EN ISO 9614-3:2009 Acoustics - Determination of sound power levels of noise sources using sound intensity - Part 3: Precision method for measurement by scanning (ISO 9614-3:2002)
44.	EN ISO 10326-1:2016 Mechanical vibration - Laboratory method for evaluating vehicle seat vibration - Part 1: Basic requirements (ISO 10326-1:2016, Corrected version 2017-02)
45.	EN ISO 11161:2007 Safety of machinery - Integrated manufacturing systems - Basic requirements (ISO 11161:2007) EN ISO 11161:2007/A1:2010
46.	EN ISO 11201:2010 Acoustics - Noise emitted by machinery and equipment - Determination of emission sound pressure levels at a work station and at other specified positions in an essentially free field over a reflecting plane with negligible environmental corrections (ISO 11201:2010)
47.	EN ISO 11202:2010 Acoustics - Noise emitted by machinery and equipment - Determination of emission sound pressure levels at a work station and at other specified positions applying approximate environmental corrections (ISO 11202:2010) EN ISO 11202:2010/A1:2021
48.	EN ISO 11203:2009 Acoustics - Noise emitted by machinery and equipment - Determination of emission sound pressure levels at a work station and at other specified positions from the sound power level (ISO 11203:1995) EN ISO 11203:2009/A1:2020
49.	EN ISO 11204:2010 Acoustics - Noise emitted by machinery and equipment - Determination of emission sound pressure levels at a work station and at other specified positions applying accurate environmental corrections (ISO 11204:2010)
50.	EN ISO 11205:2009 Acoustics - Noise emitted by machinery and equipment - Engineering method for the determination of emission sound pressure levels in situ at the work station and at other specified positions using sound intensity (ISO 11205:2003)

51.	EN ISO 11546-1:2009 Acoustics - Determination of sound insulation performances of enclosures - Part 1: Measurements under laboratory conditions (for declaration purposes) (ISO 11546-1:1995)
52.	EN ISO 11546-2:2009 Acoustics - Determination of sound insulation performances of enclosures - Part 2: Measurements in situ (for acceptance and verification purposes) (ISO 11546-2:1995)
53.	EN ISO 11553-1:2020 Safety of machinery - Laser processing machines - Part 1: Laser safety requirements (ISO 11553-1:2020) EN ISO 11553-1:2020/A11:2020
54.	EN ISO 11688-1:2009 Acoustics - Recommended practice for the design of low-noise machinery and equipment - Part 1: Planning (ISO/TR 11688-1:1995)
55.	EN ISO 11691:2009 Acoustics - Measurement of insertion loss of ducted silencers without flow - Laboratory survey method (ISO 11691:1995)
56.	EN ISO 11957:2009 Acoustics - Determination of sound insulation performance of cabins - Laboratory and in situ measurements (ISO 11957:1996)
57.	EN 12198-1:2000+A1:2008 Safety of machinery - Assessment and reduction of risks arising from radiation emitted by machinery - Part 1: General principles
58.	EN 12198-2:2002+A1:2008 Safety of machinery - Assessment and reduction of risks arising from radiation emitted by machinery - Part 2: Radiation emission measurement procedure
59.	EN 12198-3:2002+A1:2008 Safety of machinery - Assessment and reduction of risks arising from radiation emitted by machinery - Part 3: Reduction of radiation by attenuation or screening
60.	EN 12254:2010 Screens for laser working places - Safety requirements and testing EN 12254:2010/AC:2011
61.	EN 12786:2013 Safety of machinery - Requirements for the drafting of the vibration clauses of safety standards

62.	EN 13490:2001+A1:2008 Mechanical vibration - Industrial trucks - Laboratory evaluation and specification of operator seat vibration
63.	EN ISO 13732-1:2008 Ergonomics of the thermal environment - Methods for the assessment of human responses to contact with surfaces - Part 1: Hot surfaces (ISO 13732-1:2006)
64.	EN ISO 13732-3:2008 Ergonomics of the thermal environment - Methods for the assessment of human responses to contact with surfaces - Part 3: Cold surfaces (ISO 13732-3:2005)
65.	EN ISO 13753:2008 Mechanical vibration and shock - Hand-arm vibration - Method for measuring the vibration transmissibility of resilient materials when loaded by the hand-arm system (ISO 13753:1998)
66.	EN ISO 13849-1:2015 Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design (ISO 13849-1:2015)
67.	EN ISO 13849-2:2012 Safety of machinery - Safety-related parts of control systems - Part 2: Validation (ISO 13849-2:2012)
68.	EN ISO 13850:2015 Safety of machinery - Emergency stop function - Principles for design (ISO 13850:2015)
69.	EN ISO 13851:2019 Safety of machinery - Two-hand control devices - Principles for design and selection (ISO 13851:2019)
70.	EN ISO 13854:2019 Safety of machinery - Minimum gaps to avoid crushing of parts of the human body (ISO 13854:2017)
71.	EN ISO 13855:2010 Safety of machinery - Positioning of safeguards with respect to the approach speeds of parts of the human body (ISO 13855:2010)
72.	EN ISO 13856-1:2013 Safety of machinery - Pressure-sensitive protective devices - Part 1: General principles for design and testing of pressure-sensitive mats and pressure-sensitive floors (ISO 13856-1:2013)
73.	EN ISO 13856-2:2013 Safety of machinery - Pressure-sensitive protective devices - Part 2: General principles for design and testing of pressure-sensitive edges and pressure-sensitive bars (ISO 13856-2:2013)

74.	EN ISO 13856-3:2013 Safety of machinery - Pressure-sensitive protective devices - Part 3: General principles for design and testing of pressure-sensitive bumpers, plates, wires and similar devices (ISO 13856-3:2013)
75.	EN ISO 13857:2019 Safety of machinery - Safety distances to prevent hazard zones being reached by upper and lower limbs (ISO 13857:2019)
76.	EN ISO 14118:2018 Safety of machinery - Prevention of unexpected start-up (ISO 14118:2017)
77.	EN ISO 14119:2013 Safety of machinery - Interlocking devices associated with guards - Principles for design and selection (ISO 14119:2013)
78.	EN ISO 14120:2015 Safety of machinery - Guards - General requirements for the design and construction of fixed and movable guards (ISO 14120:2015)
79.	EN ISO 14122-1:2016 Safety of machinery - Permanent means of access to machinery - Part 1: Choice of fixed means and general requirements of access (ISO 14122-1:2016)
80.	EN ISO 14122-2:2016 Safety of machinery - Permanent means of access to machinery - Part 2: Working platforms and walkways (ISO 14122-2:2016)
81.	EN ISO 14122-3:2016 Safety of machinery - Permanent means of access to machinery - Part 3: Stairs, stepladders and guard-rails (ISO 14122-3:2016)
82.	EN ISO 14122-4:2016 Safety of machinery - Permanent means of access to machinery - Part 4: Fixed ladders (ISO 14122-4:2016)
83.	EN ISO 14123-1:2015 Safety of machinery - Reduction of risks to health resulting from hazardous substances emitted by machinery - Part 1: Principles and specifications for machinery manufacturers (ISO 14123-1:2015)
84.	EN ISO 14123-2:2015 Safety of machinery - Reduction of risks to health resulting from hazardous substances emitted by machinery - Part 2: Methodology leading to verification procedures (ISO 14123-2:2015)
85.	EN ISO 14159:2008 Safety of machinery - Hygiene requirements for the design of machinery (ISO 14159:2002)

86.	EN ISO 14738:2008 Safety of machinery - Anthropometric requirements for the design of workstations at machinery (ISO 14738:2002, including Cor 1:2003 and Cor 2:2005)
87.	EN ISO 15536-1:2008 Ergonomics - Computer manikins and body templates - Part 1: General requirements (ISO 15536-1:2005)
88.	EN 15967:2022 Determination of maximum explosion pressure and the maximum rate of pressure rise of gases and vapours
89.	EN 16590-1:2014 Tractors and machinery for agriculture and forestry - Safety-related parts of control systems - Part 1: General principles for design and development (ISO 25119-1:2010 modified)
90.	EN 16590-2:2014 Tractors and machinery for agriculture and forestry - Safety-related parts of control systems - Part 2: Concept phase (ISO 25119-2:2010 modified)
91.	EN 17624:2022 Determination of explosion limits of gases and vapours at elevated pressures, elevated temperatures or with oxidizers other than air
92.	EN ISO 18497:2018 Agricultural machinery and tractors - Safety of highly automated agricultural machines - Principles for design (ISO 18497:2018)
93.	EN ISO 19353:2019 Safety of machinery - Fire prevention and fire protection (ISO 19353:2019)
94.	EN ISO 20607:2019 Safety of machinery - Instruction handbook - General drafting principles (ISO 20607:2019)
95.	EN ISO 20643:2008 Mechanical vibration - Hand-held and hand-guided machinery - Principles for evaluation of vibration emission (ISO 20643:2005) EN ISO 20643:2008/A1:2012
96.	EN 60204-1:2018 Safety of machinery - Electrical equipment of machines - Part 1: General requirements (IEC 60204-1:2016, modified)
97.	EN IEC 60204-11:2019 Safety of machinery - Electrical equipment of machines - Part 11: Requirements for equipment for voltages above 1 000 V AC or 1 500 V DC and not exceeding 36 kV (IEC 60204-11:2018)

98.	EN 60204-32:2008 Safety of machinery - Electrical equipment of machines - Part 32: Requirements for hoisting machines (IEC 60204-32:2008)
99.	EN 60204-33:2011 Safety of machinery - Electrical equipment of machines - Part 33: Requirements for semiconductor fabrication equipment (IEC 60204-33:2009, modified)
100.	EN 61310-1:2008 Safety of machinery - Indication, marking and actuation - Part 1: Requirements for visual, acoustic and tactile signals (IEC 61310-1:2007)
101.	EN 61310-2:2008 Safety of machinery - Indication, marking and actuation - Part 2: Requirements for marking (IEC 61310-2:2007)
102.	EN 61310-3:2008 Safety of machinery - Indication, marking and actuation - Part 3: Requirements for the location and operation of actuators (IEC 61310-3:2007)
103.	EN 61800-5-2:2007 Adjustable speed electrical power drive systems - Part 5-2: Safety requirements – Functional (IEC 61800-5-2:2007)
104.	EN IEC 62061:2021 Safety of machinery - Functional safety of safety-related control systems (IEC 62061:2021)
105.	EN 62745:2017 Safety of machinery - Requirements for cableless control systems of machinery (IEC 62745:2017) EN 62745:2017/A11:2020

PART THREE

C-TYPE STANDARDS

1. Explanatory note.

C-type standards provide specifications for a given category of machinery. The different types of machinery belonging to the category covered by a C-type standard have a similar intended use and present similar hazards. C-type standards may refer to A or B-type standards, indicating which of the specifications of the A or B-type standard are applicable to the category of machinery concerned. When, for a given aspect of machinery safety, a C-type standard deviates from the specifications of an A or B-type standard, the specifications of the C-type standard take precedence over the specifications of the A or B-type standard. Application of the specifications of a C-type standard on the basis of the manufacturer's risk assessment confers a presumption of conformity with the essential health and safety requirements of the Machinery Directive covered by the standard. Certain C-type standards are organised as a series of several parts, Part 1 of the standard giving general specifications applicable to a family of machinery and other parts of the standard giving specifications for specific categories of machinery belonging to the family, supplementing or modifying the general specifications of Part 1. For C-type standards organised in this way, the presumption of conformity with the essential health and safety requirements of the Machinery Directive is conferred by application of the general Part 1 of the standard together with the relevant specific part of the standard.

2. List of references of standards.

1.	EN 81-3:2000+A1:2008 Safety rules for the construction and installation of lifts - Part 3: Electric and hydraulic service lifts EN 81-3:2000+A1:2008/AC:2009
2.	EN 81-31:2010 Safety rules for the construction and installation of lifts - Lifts for the transport of goods only - Part 31: Accessible goods only lifts
3.	EN 81-40:2020 Safety rules for the construction and installation of lifts - Special lifts for the transport of persons and goods - Part 40: Stairlifts and inclined lifting platforms intended for persons with impaired mobility
4.	EN 81-41:2010 Safety rules for the construction and installation of lifts - Special lifts for the transport of persons and goods - Part 41: Vertical lifting platforms intended for use by persons with impaired mobility
5.	EN 81-43:2009 Safety rules for the construction and installation of lifts - Special lifts for the transport of persons and goods - Part 43: Lifts for cranes
6.	EN 115-1:2017 Safety of escalators and moving walks - Part 1: Construction and installation
7.	EN 267:2009+A1:2011 Automatic forced draught burners for liquid fuels
8.	EN 280-1:2022 Mobile elevating work platforms - Part 1: Design calculations - Stability criteria - Construction - Safety - Examinations and tests
9.	EN 280-2:2022 Mobile elevating work platforms - Part 2: Additional safety requirements for load lifting appliances on the extending lifting structure and work platform
10.	EN 289:2014 Plastics and rubber machines - Compression moulding machines and transfer moulding machines - Safety requirements
11.	EN 303-5:2021+A1:2022 Heating boilers - Part 5: Heating boilers for solid fuels, manually and automatically stoked, nominal heat output of up to 500 kW - Terminology, requirements, testing and marking

12.	EN 378-2:2016 Refrigerating systems and heat pumps - Safety and environmental requirements - Part 2: Design, construction, testing, marking and documentation
13.	EN 415-1:2014 Safety of packaging machines - Part 1: Terminology and classification of packaging machines and associated equipment
14.	EN 415-3:2021 Safety of packaging machines - Part 3: Form, fill and seal machines; fill and seal machines
15.	EN 415-5:2006+A1:2009 Safety of packaging machines - Part 5: Wrapping machines
16.	EN 415-6:2013 Safety of packaging machines - Part 6: Pallet wrapping machines
17.	EN 415-7:2006+A1:2008 Safety of packaging machines - Part 7: Group and secondary packaging machines
18.	EN 415-8:2008 Safety of packaging machines - Part 8: Strapping machines
19.	EN 415-9:2009 Safety of packaging machines - Part 9: Noise measurement methods for packaging machines, packaging lines and associated equipment, grade of accuracy 2 and 3
20.	EN 415-10:2014 Safety of packaging machines - Part 10: General Requirements
21.	EN 422:2009 Plastics and rubber machines - Blow moulding machines - Safety requirements
22.	EN 453:2014 Food processing machinery - Dough mixers - Safety and hygiene requirements
23.	EN 454:2014 Food processing machinery - Planetary mixers - Safety and hygiene requirements
24.	EN 474-1:2022 Earth-moving machinery - Safety - Part 1: General requirements

25.	EN 474-2:2022 Earth-moving machinery - Safety - Part 2: Requirements for tractor-dozers
26.	EN 474-3:2022 Earth-moving machinery - Safety - Part 3: Requirements for loaders EN 474-3:2022/AC:2022
27.	EN 474-4:2022 Earth-moving machinery - Safety - Part 4: Requirements for backhoe loaders
28.	EN 474-5:2022 Earth-moving machinery - Safety - Part 5: Requirements for hydraulic excavators EN 474-5:2022/AC:2022
29.	EN 474-6:2022 Earth-moving machinery - Safety - Part 6: Requirements for dumpers
30.	EN 474-7:2022 Earth-moving machinery - Safety - Part 7: Requirements for scrapers
31.	EN 474-8:2022 Earth-moving machinery - Safety - Part 8: Requirements for graders
32.	EN 474-9:2022 Earth-moving machinery - Safety - Part 9: Requirements for pipelayers
33.	EN 474-10:2022 Earth-moving machinery - Safety - Part 10: Requirements for trenchers
34.	EN 474-11:2022 Earth-moving machinery - Safety - Part 11: Requirements for earth- and landfill compactors
35.	EN 474-12:2022 Earth-moving machinery - Safety - Part 12: Requirements for cable excavators
36.	EN 474-13:2022 Earth-moving machinery - Safety - Part 13: Requirements for rollers
37.	EN 500-1:2006+A1:2009 Mobile road construction machinery - Safety - Part 1: Common requirements

38.	EN 500-2:2006+A1:2008 Mobile road construction machinery - Safety - Part 2: Specific requirements for road-milling machines
39.	EN 500-3:2006+A1:2008 Mobile road construction machinery - Safety - Part 3: Specific requirements for soil-stabilising machines and recycling machines
40.	EN 500-6:2006+A1:2008 Mobile road construction machinery - Safety - Part 6: Specific requirements for paver-finishers
41.	EN 528:2021+A1:2022 Rail dependent storage and retrieval equipment - Safety requirements for S/R machines
42.	EN 536:2015 Road construction machines - Mixing plants for road construction materials - Safety requirements
43.	EN 609-1:2017 Agricultural and forestry machinery - Safety of log splitters - Part 1: Wedge splitters
44.	EN 609-2:1999+A1:2009 Agricultural and forestry machinery - Safety of log splitters - Part 2: Screw splitters
45.	EN 617:2001+A1:2010 Continuous handling equipment and systems - Safety and EMC requirements for the equipment for the storage of bulk materials in silos, bunkers, bins and hoppers
46.	EN 618:2002+A1:2010 Continuous handling equipment and systems - Safety and EMC requirements for equipment for mechanical handling of bulk materials except fixed belt conveyors
47.	EN 619:2022 Continuous handling equipment and systems - Safety requirements for equipment for mechanical handling of unit loads
48.	EN 620:2021 Continuous handling equipment and systems - Safety requirements for fixed belt conveyors for bulk materials
49.	EN 676:2003+A2:2008 Automatic forced draught burners for gaseous fuels EN 676:2003+A2:2008/AC:2008
50.	EN 690:2013 Agricultural machinery - Manure spreaders - Safety

51.	EN 703:2021 Agricultural machinery - Safety - Silage loading, mixing and/or chopping and distributing machines
52.	EN 706:1996+A1:2009 Agricultural machinery - Vine shoot tipping machines - Safety
53.	EN 707:2018 Agricultural machinery - Slurry tankers - Safety
54.	EN 709:1997+A4:2009 Agricultural and forestry machinery - Pedestrian controlled tractors with mounted rotary cultivators, motor hoes, motor hoes with drive wheel(s) - Safety EN 709:1997+A4:2009/AC:2012
55.	EN 741:2000+A1:2010 Continuous handling equipment and systems - Safety requirements for systems and their components for pneumatic handling of bulk materials
56.	EN 746-1:1997+A1:2009 Industrial thermoprocessing equipment - Part 1: Common safety requirements for industrial thermoprocessing equipment
57.	EN 746-2:2010 Industrial thermoprocessing equipment - Part 2: Safety requirements for combustion and fuel handling systems
58.	EN 746-3:2021 Industrial thermoprocessing equipment - Part 3: Safety requirements for the generation and use of atmosphere gases
59.	EN 809:1998+A1:2009 Pumps and pump units for liquids - Common safety requirements EN 809:1998+A1:2009/AC:2010
60.	EN 818-1:1996+A1:2008 Short link chain for lifting purposes - Safety - Part 1: General conditions of acceptance
61.	EN 818-2:1996+A1:2008 Short link chain for lifting purposes - Safety - Part 2: Medium tolerance chain for chain slings - Grade 8
62.	EN 818-3:1999+A1:2008 Short link chain for lifting purposes - Safety - Part 3: Medium tolerance chain for chain slings - Grade 4
63.	EN 818-4:1996+A1:2008 Short link chain for lifting purposes - Safety - Part 4: Chain slings - Grade 8

64.	EN 818-5:1999+A1:2008 Short link chain for lifting purposes - Safety - Part 5: Chain slings - Grade 4
65.	EN 818-6:2000+A1:2008 Short link chain for lifting purposes - Safety - Part 6: Chain slings - Specification for information for use and maintenance to be provided by the manufacturer
66.	EN 818-7:2002+A1:2008 Short link chain for lifting purposes - Safety - Part 7: Fine tolerance hoist chain, Grade T (Types T, DAT and DT)
67.	EN 848-2:2007+A2:2012 Safety of woodworking machines - One side moulding machines with rotating tool - Part 2: Single spindle hand fed/integrated fed routing machines
68.	EN 869:2006+A1:2009 Safety of machinery - Safety requirements for pressure metal diecasting units
69.	EN 908:1999+A1:2009 Agricultural and forestry machinery - Reel machines for irrigation - Safety
70.	EN 909:1998+A1:2009 Agricultural and forestry machinery - Centre pivot and moving lateral types irrigation machines - Safety
71.	EN 930:1997+A2:2009 Footwear, leather and imitation leather goods manufacturing machines - Roughing, scouring, polishing and trimming machines - Safety requirements
72.	EN 931:1997+A2:2009 Footwear manufacturing machines - Lasting machines - Safety requirements
73.	EN 957-6:2010+A1:2014 Stationary training equipment - Part 6: Treadmills, additional specific safety requirements and test methods
74.	EN 972:1998+A1:2010 Tannery machines - Reciprocating roller machines - Safety requirements EN 972:1998+A1:2010/AC:2011
75.	EN 1010-1:2004+A1:2010 Safety of machinery - Safety requirements for the design and construction of printing and paper converting machines - Part 1: Common requirements

76.	EN 1010-2:2006+A1:2010 Safety of machinery - Safety requirements for the design and construction of printing and paper converting machines - Part 2: Printing and varnishing machines including pre-press machinery
77.	EN 1010-3:2002+A1:2009 Safety of machinery - Safety requirements for the design and construction of printing and paper converting machines - Part 3: Cutting machines
78.	EN 1010-4:2004+A1:2009 Safety of machinery - Safety requirements for the design and construction of printing and paper converting machines - Part 4: Bookbinding, paper converting and finishing machines
79.	EN 1012-1:2010 Compressors and vacuum pumps - Safety requirements - Part 1: Air compressors
80.	EN 1012-2:1996+A1:2009 Compressors and vacuum pumps - Safety requirements - Part 2: Vacuum pumps
81.	EN 1012-3:2013 Compressors and vacuum pumps - Safety requirements - Part 3: Process compressors
82.	EN 1028-1:2002+A1:2008 Fire-fighting pumps - Fire-fighting centrifugal pumps with primer - Part 1: Classification - General and safety requirements
83.	EN 1028-2:2002+A1:2008 Fire-fighting pumps - Fire-fighting centrifugal pumps with primer - Part 2: Verification of general and safety requirements
84.	EN 1034-1:2000+A1:2010 Safety of machinery - Safety requirements for the design and construction of paper making and finishing machines - Part 1: Common requirements
85.	EN 1034-2:2005+A1:2009 Safety of machinery - Safety requirements for the design and construction of paper making and finishing machines - Part 2: Barking drums
86.	EN 1034-3:2011 Safety of machinery - Safety requirements for the design and construction of paper making and finishing machines - Part 3: Rereelers and winders

87.	EN 1034-4:2021 Safety of machinery - Safety requirements for the design and construction of paper making and finishing machines - Part 4: Pulpers and their loading facilities
88.	EN 1034-5:2005+A1:2009 Safety of machinery - Safety requirements for the design and construction of paper making and finishing machines - Part 5: Sheeters
89.	EN 1034-6:2005+A1:2009 Safety of machinery - Safety requirements for the design and construction of paper making and finishing machines - Part 6: Calender
90.	EN 1034-7:2005+A1:2009 Safety of machinery - Safety requirements for the design and construction of paper making and finishing machines - Part 7: Chests
91.	EN 1034-8:2012 Safety of machinery - Safety requirements for the design and construction of paper making and finishing machines - Part 8: Refining plants
92.	EN 1034-13:2005+A1:2009 Safety of machinery - Safety requirements for the design and construction of paper making and finishing machines - Part 13: Machines for de-wiring bales and units
93.	EN 1034-14:2005+A1:2009 Safety of machinery - Safety requirements for the design and construction of paper making and finishing machines - Part 14: Reel splitter
94.	EN 1034-16:2012 Safety of machinery - Safety requirements for the design and construction of paper making and finishing machines - Part 16: Paper and board making machines
95.	EN 1034-17:2012 Safety of machinery - Safety requirements for the design and construction of paper making and finishing machines - Part 17: Tissue making machines
96.	EN 1034-21:2012 Safety of machinery - Safety requirements for the design and construction of paper making and finishing machines - Part 21: Coating machines
97.	EN 1034-22:2005+A1:2009 Safety of machinery - Safety requirements for the design and construction of paper making and finishing machines - Part 22: Wood Grinders

98.	EN 1034-26:2012 Safety of machinery - Safety requirements for the design and construction of paper making and finishing machines - Part 26: Roll packaging machines
99.	EN 1034-27:2012 Safety of machinery - Safety requirements for the design and construction of paper making and finishing machines - Part 27: Roll handling systems
100.	EN 1114-1:2011 Plastics and rubber machines - Extruders and extrusion lines - Part 1: Safety requirements for extruders
101.	EN 1114-3:2019 Plastics and rubber machines - Extruders and extrusion lines - Part 3: Safety requirements for haul-offs
102.	EN 1175:2020 Safety of industrial trucks - Electrical/electronic requirements
103.	EN 1218-1:1999+A1:2009 Safety of woodworking machines - Tenoning machines - Part 1: Single end tenoning machines with sliding table
104.	EN 1218-2:2004+A1:2009 Safety of woodworking machines - Tenoning machines - Part 2: Double end tenoning and/or profiling machines fed by chain or chains
105.	EN 1218-3:2001+A1:2009 Safety of woodworking machines - Tenoning machines - Part 3: Hand fed tenoning machines with sliding table for cutting structural timbers
106.	EN 1218-5:2004+A1:2009 Safety of woodworking machines - Tenoning machines - Part 5: One side profiling machines with fixed table and feed rollers or feed chain
107.	EN 1247:2004+A1:2010 Foundry machinery - Safety requirements for ladles, pouring equipment, centrifugal casting machines, continuous and semi continuous casting machines
108.	EN 1248:2001+A1:2009 Foundry machinery - Safety requirements for abrasive blasting equipment
109.	EN 1265:1999+A1:2008 Safety of machinery - Noise test code for foundry machines and equipment

110.	EN 1374:2000+A1:2010 Agricultural machinery - Silos stationary unloaders for round silos - Safety
111.	EN 1398:2009 Dock levellers - Safety requirements
112.	EN 1417:2014 Plastics and rubber machines - Two-roll mills - Safety requirements
113.	EN 1459-1:2017 Rough-terrain trucks - Safety requirements and verification - Part 1: Variable-reach trucks
114.	EN 1459-2:2015+A1:2018 Rough-terrain trucks - Safety requirements and verification - Part 2: Slewing variable-reach trucks
115.	EN 1459-5:2020 Rough-terrain trucks - Safety requirements and verification - Part 5: Attachment interface
116.	EN 1492-1:2000+A1:2008 Textile slings - Safety - Part 1: Flat woven webbing slings made of man-made fibres for general purpose use
117.	EN 1492-2:2000+A1:2008 Textile slings - Safety - Part 2: Roundslings made of man-made fibres for general purpose use
118.	EN 1492-4:2004+A1:2008 Textile slings - Safety - Part 4: Lifting slings for general service made from natural and man-made fibre ropes
119.	EN 1493:2010 Vehicle lifts
120.	EN 1494:2000+A1:2008 Mobile or movable jacks and associated lifting equipment
121.	EN 1495:1997+A2:2009 Lifting platforms - Mast climbing work platforms EN 1495:1997+A2:2009/AC:2010 Restriction: This publication does not concern paragraph 5.3.2.4, the last subparagraph of 7.1.2.12, table 8 and figure 9 of standard EN 1495:1997, in respect of which it grants no presumption of conformity to the provisions of Directive 2006/42/EC.
122.	EN 1501-1:2021 Refuse collection vehicles - General requirements and safety requirements - Part 1: Rear loaded refuse collection vehicles

123.	EN 1501-2:2021 Refuse collection vehicles - General requirements and safety requirements - Part 2: Side loaded refuse collection vehicles
124.	EN 1501-3:2021 Refuse collection vehicles - General requirements and safety requirements - Part 3: Front loaded refuse collection vehicles
125.	EN 1501-4:2007 Refuse collection vehicles and their associated lifting devices - General requirements and safety requirements - Part 4: Noise test code for refuse collection vehicles
126.	EN 1501-5:2021 Refuse collection vehicles - General requirements and safety requirements - Part 5: Lifting devices for refuse collection vehicles
127.	EN 1526:1997+A1:2008 Safety of industrial trucks - Additional requirements for automated functions on trucks
128.	EN 1539:2015 Dryers and ovens, in which flammable substances are released - Safety requirements
129.	EN 1547:2001+A1:2009 Industrial thermoprocessing equipment - Noise test code for industrial thermoprocessing equipment including its ancillary handling equipment
130.	EN 1550:1997+A1:2008 Machine-tools safety - Safety requirements for the design and construction of work holding chucks
131.	EN 1554:2012 Conveyor belts - Drum friction testing
132.	EN 1570-1:2011+A1:2014 Safety requirements for lifting tables - Part 1: Lifting tables serving up to two fixed landings
133.	EN 1570-2:2016 Safety requirements for lifting tables - Part 2: Lifting tables serving more than 2 fixed landings of a building, for lifting goods with a vertical travel speed not exceeding 0,15 m/s
134.	EN 1612:2019 Plastics and rubber machines - Reaction moulding machines and plants - Safety requirements
135.	EN 1672-2:2005+A1:2009 Food processing machinery - Basic concepts - Part 2: Hygiene requirements

136.	EN 1673:2000+A1:2009 Food processing machinery - Rotary rack ovens - Safety and hygiene requirements
137.	EN 1674:2015 Food processing machinery - Dough sheeters - Safety and hygiene requirements
138.	EN 1677-1:2000+A1:2008 Components for slings - Safety - Part 1: Forged steel components, Grade 8
139.	EN 1677-2:2000+A1:2008 Components for slings - Safety - Part 2: Forged steel lifting hooks with latch, Grade 8
140.	EN 1677-3:2001+A1:2008 Components for slings - Safety - Part 3: Forged steel self-locking hooks - Grade 8
141.	EN 1677-4:2000+A1:2008 Components for slings - Safety - Part 4: Links, Grade 8
142.	EN 1677-5:2001+A1:2008 Components for slings - Safety - Part 5: Forged steel lifting hooks with latch - Grade 4
143.	EN 1677-6:2001+A1:2008 Components for slings - Safety - Part 6: Links - Grade 4
144.	EN 1678:1998+A1:2010 Food processing machinery - Vegetable cutting machines - Safety and hygiene requirements
145.	EN 1679-1:1998+A1:2011 Reciprocating internal combustion engines - Safety - Part 1: Compression ignition engines
146.	EN 1756-1:2021 Tail lifts - Platform lifts for mounting on wheeled vehicles - Safety requirements - Part 1: Tail lifts for goods
147.	EN 1756-2:2004+A1:2009 Tail lifts - Platform lifts for mounting on wheeled vehicles - Safety requirements - Part 2: Tail lifts for passengers
148.	EN 1777:2010 Hydraulic platforms (HPs) for fire fighting and rescue services - Safety requirements and testing

149.	EN 1804-1:2020 Machines for underground mines - Safety requirements for hydraulic powered roof supports - Part 1: Support units and general requirements
150.	EN 1804-2:2020 Machines for underground mines - Safety requirements for hydraulic powered roof supports - Part 2: Power set legs and rams
151.	EN 1804-3:2020 Machines for underground mines - Safety requirements for hydraulic powered roof supports - Part 3: Hydraulic and electro hydraulic control systems
152.	EN 1807-2:2013 Safety of woodworking machines - Band sawing machines - Part 2: Log sawing machines
153.	EN 1808:2015 Safety requirements for suspended access equipment - Design calculations, stability criteria, construction - Examinations and tests
154.	EN 1829-1:2021 High-pressure water jet machines - Safety requirements - Part 1: Machines
155.	EN 1829-2:2008 High-pressure water jet machines - Safety requirements - Part 2: Hoses, hose lines and connectors EN 1829-2:2008/AC:2011
156.	EN 1845:2007 Footwear manufacturing machines - Footwear moulding machines - Safety requirements
157.	EN 1846-2:2009+A1:2013 Firefighting and rescue service vehicles - Part 2: Common requirements - Safety and performance
158.	EN 1846-3:2013 Firefighting and rescue service vehicles - Part 3: Permanently installed equipment - Safety and performance
159.	EN 1853:2017 Agricultural machinery - Trailers - Safety
160.	EN 1870-3:2001+A1:2009 Safety of woodworking machines - Circular sawing machines - Part 3: Down cutting cross-cut saws and dual purpose down cutting cross-cut saws/circular saw benches

161.	EN 1870-5:2002+A2:2012 Safety of woodworking machines - Circular sawing machines - Part 5: Circular sawbenches/up-cutting cross-cut sawing machines
162.	EN 1870-6:2017 Safety of woodworking machines - Circular sawing machines - Part 6: Circular sawing machines for fire wood
163.	EN 1870-7:2012 Safety of woodworking machines - Circular sawing machines - Part 7: Single blade log sawing machines with integrated feed table and manual loading and/or unloading
164.	EN 1870-8:2012 Safety of woodworking machines - Circular sawing machines - Part 8: Single blade edging circular rip sawing machines with power driven saw unit and manual loading and/or unloading
165.	EN 1870-9:2012 Safety of woodworking machines - Circular sawing machines - Part 9: Double blade circular sawing machines for cross-cutting with integrated feed and with manual loading and/or unloading
166.	EN 1870-10:2013 Safety of woodworking machines - Circular sawing machines - Part 10: Single blade automatic and semi-automatic up-cutting cross-cut sawing machines
167.	EN 1870-11:2013 Safety of woodworking machines - Circular sawing machines - Part 11: Semi automatic horizontal cross-cut sawing machines with one saw unit (radial arm saws)
168.	EN 1870-12:2013 Safety of woodworking machines - Circular sawing machines - Part 12: Pendulum cross-cut sawing machines
169.	EN 1870-15:2012 Safety of woodworking machines - Circular sawing machines - Part 15: Multi-blade cross-cut sawing machines with integrated feed of the workpiece and manual loading and/or unloading
170.	EN 1870-16:2012 Safety of woodworking machines - Circular sawing machines - Part 16: Double mitre sawing machines for V cutting
171.	EN 1870-17:2012+A1:2015 Safety of woodworking machines - Circular sawing machines - Part 17: Manual horizontal cutting cross-cut sawing machines with one saw unit (radial arm saws)
172.	EN 1889-2:2003+A1:2009 Machines for underground mines - Mobile machines working underground - Safety - Part 2: Rail locomotives

173.	EN 1915-1:2013 Aircraft ground support equipment - General requirements - Part 1: Basic safety requirements
174.	EN 1915-2:2001+A1:2009 Aircraft ground support equipment - General requirements - Part 2: Stability and strength requirements, calculations and test methods
175.	EN 1915-3:2004+A1:2009 Aircraft ground support equipment - General requirements - Part 3: Vibration measurement methods and reduction
176.	EN 1915-4:2004+A1:2009 Aircraft ground support equipment - General requirements - Part 4: Noise measurement methods and reduction
177.	EN 1953:2013 Atomising and spraying equipment for coating materials - Safety requirements
178.	EN 1974:2020 Food processing machinery - Slicing machines - Safety and hygiene requirements
179.	EN ISO 2151:2008 Acoustics - Noise test code for compressors and vacuum pumps - Engineering method (Grade 2) (ISO 2151:2004)
180.	EN ISO 2860:2008 Earth-moving machinery - Minimum access dimensions (ISO 2860:1992)
181.	EN ISO 2867:2011 Earth-moving machinery - Access systems (ISO 2867:2011)
182.	EN ISO 3164:2013 Earth-moving machinery - Laboratory evaluations of protective structures - Specifications for deflection-limiting volume (ISO 3164:2013)
183.	EN ISO 3266:2010 Forged steel eyebolts grade 4 for general lifting purposes (ISO 3266:2010) EN ISO 3266:2010/A1:2015
184.	EN ISO 3411:2007 Earth-moving machinery - Physical dimensions of operators and minimum operator space envelope (ISO 3411:2007)

185.	EN ISO 3449:2008 Earth-moving machinery - Falling-object protective structures - Laboratory tests and performance requirements (ISO 3449:2005)
186.	EN ISO 3450:2011 Earth-moving machinery - Wheeled or high-speed rubber-tracked machines - Performance requirements and test procedures for brake systems (ISO 3450:2011)
187.	EN ISO 3457:2008 Earth-moving machinery - Guards - Definitions and requirements (ISO 3457:2003)
188.	EN ISO 3471:2008 Earth-moving machinery - Roll-over protective structures - Laboratory tests and performance requirements (ISO 3471:2008)
189.	EN ISO 3691-1:2015 Industrial trucks - Safety requirements and verification - Part 1: Self-propelled industrial trucks, other than driverless trucks, variable-reach trucks and burden-carrier trucks (ISO 3691-1:2011, including Cor 1:2013) EN ISO 3691-1:2015/AC:2016 EN ISO 3691-1:2015/A1:2020
190.	EN ISO 3691-5:2015 Industrial trucks - Safety requirements and verification - Part 5: Pedestrian-propelled trucks (ISO 3691-5:2014) EN ISO 3691-5:2015/A1:2020
191.	EN ISO 3691-6:2021 Industrial trucks - Safety requirements and verification - Part 6: Burden and personnel carriers (ISO 3691-6:2021)
192.	EN ISO 4254-1:2015 Agricultural machinery - Safety - Part 1: General requirements (ISO 4254-1:2013) EN ISO 4254-1:2015/A1:2021
193.	EN ISO 4254-5:2018 Agricultural machinery - Safety - Part 5: Power-driven soil-working machines (ISO 4254-5:2018)
194.	EN ISO 4254-6:2020 Agricultural machinery - Safety - Part 6: Sprayers and liquid fertilizer distributors (ISO 4254-6:2020) EN ISO 4254-6:2020/A11:2021

195.	EN ISO 4254-7:2017 Agricultural machinery - Safety - Part 7: Combine harvesters, forage harvesters, cotton harvesters and sugar cane harvesters (ISO 4254-7:2017)
196.	EN ISO 4254-8:2018 Agricultural machinery - Safety - Part 8: Solid fertilizer distributors (ISO 4254-8:2018)
197.	EN ISO 4254-9:2018 Agricultural machinery - Safety - Part 9: Seed drills (ISO 4254-9:2018)
198.	EN ISO 4254-10:2009 Agricultural machinery - Safety - Part 10: Rotary tedders and rakes (ISO 4254-10:2009) EN ISO 4254-10:2009/AC:2010
199.	EN ISO 4254-11:2010 Agricultural machinery - Safety - Part 11: Pick-up balers (ISO 4254-11:2010) EN ISO 4254-11:2010/A1:2020
200.	EN ISO 4254-12:2012 Agricultural machinery - Safety - Part 12: Rotary disc and drum mowers and flail mowers (ISO 4254-12:2012) EN ISO 4254-12:2012/A1:2017
201.	EN ISO 4254-14:2016 Agricultural machinery - Safety - Part 14: Bale wrappers (ISO 4254-14:2016)
202.	EN ISO 4254-17:2022 Agricultural machinery - Safety - Part 17: Root crop harvesters (ISO 4254-17:2022)
203.	EN ISO 5010:2019 Earth-moving machinery - Wheeled machines - Steering requirements (ISO 5010:2019)
204.	EN ISO 5395-1:2013 Garden equipment - Safety requirements for combustion-engine-powered lawnmowers - Part 1: Terminology and common tests (ISO 5395-1:2013) EN ISO 5395-1:2013/A1:2018
205.	EN ISO 5395-2:2013 Garden equipment - Safety requirements for combustion-engine-powered lawnmowers - Part 2: Pedestrian-controlled lawnmowers (ISO 5395-2:2013) EN ISO 5395-2:2013/A1:2016 EN ISO 5395-2:2013/A2:2017

206.	<p>EN ISO 5395-3:2013</p> <p>Garden equipment - Safety requirements for combustion-engine-powered lawnmowers - Part 3: Ride-on lawnmowers with seated operator (ISO 5395-3:2013)</p> <p>EN ISO 5395-3:2013/A1:2017 EN ISO 5395-3:2013/A2:2018</p>
207.	<p>EN ISO 5674:2009</p> <p>Tractors and machinery for agriculture and forestry - Guards for power take-off (PTO) drive-shafts - Strength and wear tests and acceptance criteria (ISO 5674:2004, corrected version 2005-07-01)</p>
208.	<p>EN ISO 6682:2008</p> <p>Earth-moving machinery - Zones of comfort and reach for controls (ISO 6682:1986, including Amd 1:1989)</p>
209.	<p>EN ISO 6683:2008</p> <p>Earth-moving machinery - Seat belts and seat belt anchorages - Performance requirements and tests (ISO 6683:2005)</p>
210.	<p>EN ISO 7096:2020</p> <p>Earth-moving machinery - Laboratory evaluation of operator seat vibration (ISO 7096:2020)</p>
211.	<p>EN ISO 8230-1:2008</p> <p>Safety requirements for dry-cleaning machines - Part 1: Common safety requirements (ISO 8230-1:2008)</p>
212.	<p>EN ISO 8230-2:2008</p> <p>Safety requirements for dry-cleaning machines - Part 2: Machines using perchloroethylene (ISO 8230-2:2008)</p>
213.	<p>EN ISO 8230-3:2008</p> <p>Safety requirements for dry-cleaning machines - Part 3: Machines using combustible solvents (ISO 8230-3:2008)</p>
214.	<p>EN ISO 8528-10:2022</p> <p>Reciprocating internal combustion engine driven alternating current generating sets - Part 10: Measurement of airborne noise (ISO 8528-10:2022)</p>
215.	<p>EN ISO 8528-13:2016</p> <p>Reciprocating internal combustion engine driven alternating current generating sets - Part 13: Safety (ISO 8528-13:2016, Corrected version 2016-10-15)</p>
216.	<p>EN ISO 9902-1:2001</p> <p>Textile machinery - Noise test code - Part 1: Common requirements (ISO 9902-1:2001)</p> <p>EN ISO 9902-1:2001/A1:2009 EN ISO 9902-1:2001/A2:2014</p>

217.	EN ISO 9902-2:2001 Textile machinery - Noise test code - Part 2: Spinning preparatory and spinning machinery (ISO 9902-2:2001) EN ISO 9902-2:2001/A1:2009 EN ISO 9902-2:2001/A2:2014
218.	EN ISO 9902-3:2001 Textile machinery - Noise test code - Part 3: Nonwoven machinery (ISO 9902-3:2001) EN ISO 9902-3:2001/A1:2009 EN ISO 9902-3:2001/A2:2014
219.	EN ISO 9902-4:2001 Textile machinery - Noise test code - Part 4: Yarn processing, cordage and rope manufacturing machinery (ISO 9902-4:2001) EN ISO 9902-4:2001/A1:2009 EN ISO 9902-4:2001/A2:2014
220.	EN ISO 9902-5:2001 Textile machinery - Noise test code - Part 5: Weaving and knitting preparatory machinery (ISO 9902-5:2001) EN ISO 9902-5:2001/A1:2009 EN ISO 9902-5:2001/A2:2014
221.	EN ISO 9902-6:2001 Textile machinery - Noise test code - Part 6: Fabric manufacturing machinery (ISO 9902-6:2001) EN ISO 9902-6:2001/A1:2009 EN ISO 9902-6:2001/A2:2014
222.	EN ISO 9902-7:2001 Textile machinery - Noise test code - Part 7: Dyeing and finishing machinery (ISO 9902-7:2001) EN ISO 9902-7:2001/A1:2009 EN ISO 9902-7:2001/A2:2014
223.	EN ISO 10218-1:2011 Robots and robotic devices - Safety requirements for industrial robots - Part 1: Robots (ISO 10218-1:2011)
224.	EN ISO 10218-2:2011 Robots and robotic devices - Safety requirements for industrial robots - Part 2: Robot systems and integration (ISO 10218-2:2011)
225.	EN ISO 10472-1:2008 Safety requirements for industrial laundry machinery - Part 1: Common requirements (ISO 10472-1:1997)

226.	EN ISO 10472-2:2008 Safety requirements for industrial laundry machinery - Part 2: Washing machines and washer-extractors (ISO 10472-2:1997)
227.	EN ISO 10472-3:2008 Safety requirements for industrial laundry machinery - Part 3: Washing tunnel lines including component machines (ISO 10472-3:1997)
228.	EN ISO 10472-4:2008 Safety requirements for industrial laundry machinery - Part 4: Air dryers (ISO 10472-4:1997)
229.	EN ISO 10472-5:2008 Safety requirements for industrial laundry machinery - Part 5: Flatwork ironers, feeders and folders (ISO 10472-5:1997)
230.	EN ISO 10472-6:2008 Safety requirements for industrial laundry machinery - Part 6: Ironing and fusing presses (ISO 10472-6:1997)
231.	EN ISO 10517:2019 Powered hand-held hedge trimmers - Safety (ISO 10517:2019)
232.	EN ISO 10821:2005 Industrial sewing machines - Safety requirements for sewing machines, units and systems (ISO 10821:2005) EN ISO 10821:2005/A1:2009
233.	EN ISO 11102-1:2009 Reciprocating internal combustion engines - Handle starting equipment - Part 1: Safety requirements and tests (ISO 11102-1:1997)
234.	EN ISO 11102-2:2009 Reciprocating internal combustion engines - Handle starting equipment - Part 2: Method of testing the angle of disengagement (ISO 11102-2:1997)
235.	EN ISO 11111-1:2016 Textile machinery - Safety requirements - Part 1: Common requirements (ISO 11111-1:2016)
236.	EN ISO 11111-2:2005 Textile machinery - Safety requirements - Part 2: Spinning preparatory and spinning machines (ISO 11111-2:2005) EN ISO 11111-2:2005/A1:2009 EN ISO 11111-2:2005/A2:2016

237.	EN ISO 11111-3:2005 Textile machinery - Safety requirements - Part 3: Nonwoven machinery (ISO 11111-3:2005) EN ISO 11111-3:2005/A1:2009 EN ISO 11111-3:2005/A2:2016
238.	EN ISO 11111-4:2005 Textile machinery - Safety requirements - Part 4: Yarn processing, cordage and rope manufacturing machinery (ISO 11111-4:2005) EN ISO 11111-4:2005/A1:2009 EN ISO 11111-4:2005/A2:2016
239.	EN ISO 11111-5:2005 Textile machinery - Safety requirements - Part 5: Preparatory machinery to weaving and knitting (ISO 11111-5:2005) EN ISO 11111-5:2005/A1:2009 EN ISO 11111-5:2005/A2:2016
240.	EN ISO 11111-6:2005 Textile machinery - Safety requirements - Part 6: Fabric manufacturing machinery (ISO 11111-6:2005) EN ISO 11111-6:2005/A1:2009 EN ISO 11111-6:2005/A2:2016
241.	EN ISO 11111-7:2005 Textile machinery - Safety requirements - Part 7: Dyeing and finishing machinery (ISO 11111-7:2005) EN ISO 11111-7:2005/A1:2009 EN ISO 11111-7:2005/A2:2016
242.	EN ISO 11145:2016 Optics and photonics - Lasers and laser-related equipment - Vocabulary and symbols (ISO 11145:2016)
243.	EN ISO 11148-1:2011 Hand-held non-electric power tools - Safety requirements - Part 1: Assembly power tools for non-threaded mechanical fasteners (ISO 11148-1:2011)
244.	EN ISO 11148-2:2011 Hand-held non-electric power tools - Safety requirements - Part 2: Cutting-off and crimping power tools (ISO/FDIS 11148-2:2011)
245.	EN ISO 11148-3:2012 Hand-held non-electric power tools - Safety requirements - Part 3: Drills and tappers (ISO 11148-3:2012)

246.	EN ISO 11148-4:2012 Hand-held non-electric power tools - Safety requirements - Part 4: Non-rotary percussive power tools (ISO 11148-4:2012)
247.	EN ISO 11148-5:2011 Hand-held non-electric power tools - Safety requirements - Part 5: Rotary percussive drills (ISO 11148-5:2011)
248.	EN ISO 11148-6:2012 Hand-held non-electric power tools - Safety requirements - Part 6: Assembly power tools for threaded fasteners (ISO 11148-6:2012)
249.	EN ISO 11148-7:2012 Hand-held non-electric power tools - Safety requirements - Part 7: Grinders (ISO 11148-7:2012)
250.	EN ISO 11148-8:2011 Hand-held non-electric power tools - Safety requirements - Part 8: Sanders and polishers (ISO 11148-8:2011)
251.	EN ISO 11148-9:2011 Hand-held non-electric power tools - Safety requirements - Part 9: Die grinders (ISO 11148-9:2011)
252.	EN ISO 11148-10:2011 Hand-held non-electric power tools - Safety requirements - Part 10: Compression power tools (ISO 11148-10:2011)
253.	EN ISO 11148-11:2011 Hand-held non-electric power tools - Safety requirements - Part 11: Nibblers and shears (ISO 11148-11:2011)
254.	EN ISO 11148-12:2012 Hand-held non-electric power tools - Safety requirements - Part 12: Circular, oscillating and reciprocating saws (ISO 11148-12:2012)
255.	EN ISO 11148-13:2018 Hand-held non-electric power tools - Safety requirements - Part 13: Fastener driving tools (ISO 11148-13:2017)
256.	EN ISO 11252:2013 Lasers and laser-related equipment - Laser device - Minimum requirements for documentation (ISO 11252:2013)
257.	EN ISO 11553-2:2008 Safety of machinery - Laser processing machines - Part 2: Safety requirements for hand-held laser processing devices (ISO 11553-2:2007)

258.	EN ISO 11553-3:2013 Safety of machinery - Laser processing machines - Part 3: Noise reduction and noise measurement methods for laser processing machines and hand-held processing devices and associated auxiliary equipment (accuracy grade 2) (ISO 11553-3:2013)
259.	EN ISO 11554:2017 Optics and photonics - Lasers and laser-related equipment - Test methods for laser beam power, energy and temporal characteristics (ISO 11554:2017)
260.	EN ISO 11680-1:2021 Machinery for forestry - Safety requirements and testing for pole-mounted powered pruners - Part 1: Machines fitted with an integral combustion engine (ISO 11680-1:2021)
261.	EN ISO 11680-2:2021 Machinery for forestry - Safety requirements and testing for pole-mounted powered pruners - Part 2: Machines for use with backpack power source (ISO 11680-2:2021)
262.	EN ISO 11681-1:2022 Machinery for forestry - Portable chain-saw safety requirements and testing - Part 1: Chain-saws for forest service (ISO 11681-1:2022)
263.	EN ISO 11681-2:2022 Machinery for forestry - Portable chain-saw safety requirements and testing - Part 2: Chain-saws for tree service (ISO 11681-2:2022)
264.	EN ISO 11806-1:2022 Agricultural and forestry machinery - Safety requirements and testing for portable, hand-held, powered brush-cutters and grass-trimmers - Part 1: Machines fitted with an integral combustion engine (ISO 11806-1:2022)
265.	EN ISO 11806-2:2022 Agricultural and forestry machinery - Safety requirements and testing for portable, hand-held, powered brush-cutters and grass-trimmers - Part 2: Machines for use with backpack power unit (ISO 11806-2:2022)
266.	EN ISO 11850:2011 Machinery for forestry - General safety requirements (ISO 11850:2011) EN ISO 11850:2011/A1:2016 EN ISO 11850:2011/A2:2022 Restriction: With regard to paragraph 4.4 a), first paragraph, first indentation, as well as reference to standard EN ISO 2867:2011, table 6 to paragraphs 8 and 9, maximum dimension for 'A' and note a) maximum first step height dimension, this publication does not confer a presumption of conformity to the essential health and safety requirements 1.1.6., 1.5.15. and 1.6.2. of Annex I to Directive 2006/42/EC.

267.	EN 12001:2012 Conveying, spraying and placing machines for concrete and mortar - Safety requirements
268.	EN 12012-1:2018 Plastics and rubber machines - Size reduction machines - Part 1: Safety requirements for blade granulators and shredders
269.	EN 12012-4:2019+A1:2021 Plastics and rubber machines - Size reduction machines - Part 4: Safety requirements for agglomerators
270.	EN 12013:2018 Plastics and rubber machines - Internal mixers - Safety requirements
271.	EN 12016:2013 Electromagnetic compatibility - Product family standard for lifts, escalators and moving walks - Immunity
272.	EN 12041:2014 Food processing machinery - Moulders - Safety and hygiene requirements
273.	EN 12042:2014 Food processing machinery - Automatic dough dividers - Safety and hygiene requirements
274.	EN 12043:2014 Food processing machinery - Intermediate provers - Safety and hygiene requirements
275.	EN 12044:2005+A1:2009 Footwear, leather and imitation leather goods manufacturing machines - Cutting and punching machines - Safety requirements
276.	EN 12053:2001+A1:2008 Safety of industrial trucks - Test methods for measuring noise emissions
277.	EN 12077-2:1998+A1:2008 Cranes safety - Requirements for health and safety - Part 2: Limiting and indicating devices
278.	EN 12110:2014 Tunnelling machines - Air locks - Safety requirements
279.	EN 12111:2014 Tunnelling machines - Road headers and continuous miners - Safety requirements

280.	EN 12158-1:2021 Builders' hoists for goods - Part 1: Hoists with accessible platforms
281.	EN 12158-2:2000+A1:2010 Builders' hoists for goods - Part 2: Inclined hoists with non-accessible load carrying devices
282.	EN 12159:2012 Builders hoists for persons and materials with vertically guided cages
283.	EN 12162:2001+A1:2009 Liquid pumps - Safety requirements - Procedure for hydrostatic testing
284.	EN 12203:2003+A1:2009 Footwear, leather and imitation leather goods manufacturing machines - Shoe and leather presses - Safety requirements
285.	EN 12267:2003+A1:2010 Food processing machinery - Circular saw machines - Safety and hygiene requirements
286.	EN 12268:2014 Food processing machinery - Band saw machines - Safety and hygiene requirements
287.	EN 12301:2019 Plastics and rubber machines - Calenders - Safety requirements EN 12301:2019/AC:2021
288.	EN 12312-1:2013 Aircraft ground support equipment - Specific requirements - Part 1: Passenger stairs
289.	EN 12312-2:2014 Aircraft ground support equipment - Specific requirements - Part 2: Catering vehicles
290.	EN 12312-3:2017+A1:2020 Aircraft ground support equipment - Specific requirements - Part 3: Conveyor belt vehicles
291.	EN 12312-4:2014 Aircraft ground support equipment - Specific requirements - Part 4: Passenger boarding bridges
292.	EN 12312-5:2021 Aircraft ground support equipment - Specific requirements - Part 5: Aircraft fuelling equipment

293.	EN 12312-6:2017 Aircraft ground support equipment - Specific requirements - Part 6: Deicers and de-icing/anti-icing equipment
294.	EN 12312-7:2020 Aircraft ground support equipment - Specific requirements - Part 7: Aircraft movement equipment
295.	EN 12312-8:2018 Aircraft ground support equipment - Specific requirements - Part 8: Maintenance or service stairs and platforms
296.	EN 12312-9:2013 Aircraft ground support equipment - Specific requirements - Part 9: Container/Pallet loaders
297.	EN 12312-10:2005+A1:2009 Aircraft ground support equipment - Specific requirements - Part 10: Container/Pallet transfer transporters
298.	EN 12312-12:2017 Aircraft ground support equipment - Specific requirements - Part 12: Potable water service equipment
299.	EN 12312-13:2017 Aircraft ground support equipment - Specific requirements - Part 13: Lavatory service equipment
300.	EN 12312-14:2014 Aircraft ground support equipment - Specific requirements - Part 14: Disabled/incapacitated passenger boarding vehicles
301.	EN 12312-15:2006+A1:2009 Aircraft ground support equipment - Specific requirements - Part 15: Baggage and equipment tractors
302.	EN 12312-16:2005+A1:2009 Aircraft ground support equipment - Specific requirements - Part 16: Air start equipment
303.	EN 12312-17:2004+A1:2009 Aircraft ground support equipment - Specific requirements - Part 17: Air conditioning equipment
304.	EN 12312-18:2005+A1:2009 Aircraft ground support equipment - Specific requirements - Part 18: Nitrogen or Oxygen units
305.	EN 12312-19:2005+A1:2009 Aircraft ground support equipment - Specific requirements - Part 19: Aircraft jacks, axle jacks and hydraulic tail stanchions

306.	EN 12312-20:2005+A1:2009 Aircraft ground support equipment - Specific requirements - Part 20: Electrical ground power units
307.	EN 12321:2003+A1:2009 Underground mining machinery - Specification for the safety requirements of armoured face conveyors
308.	EN 12331:2021 Food processing machinery - Mincing machines - Safety and hygiene requirements
309.	EN 12348:2000+A1:2009 Core drilling machines on stand - Safety
310.	EN 12355:2022 Food processing machinery - Derinding-, skinning- and membrane removal machines - Safety and hygiene requirements
311.	EN 12385-1:2002+A1:2008 Steel wire ropes - Safety - Part 1: General requirements
312.	EN 12385-2:2002+A1:2008 Steel wire ropes - Safety - Part 2: Definitions, designation and classification
313.	EN 12385-3:2004+A1:2008 Steel wire ropes - Safety - Part 3: Information for use and maintenance
314.	EN 12385-4:2002+A1:2008 Steel wire ropes - Safety - Part 4: Stranded ropes for general lifting applications
315.	EN 12385-5:2021 Steel wire ropes - Safety - Part 5: Stranded ropes for lifts EN 12385-5:2021/AC:2021
316.	EN 12385-10:2003+A1:2008 Steel wire ropes - Safety - Part 10: Spiral ropes for general structural applications
317.	EN 12387:2005+A1:2009 Footwear, leather and imitation leather goods manufacturing machines - Modular shoe repair equipment - Safety requirements
318.	EN 12409:2008+A1:2011 Plastics and rubber machines - Thermoforming machines - Safety requirements

319.	EN 12417:2001+A2:2009 Machine tools - Safety - Machining centres EN 12417:2001+A2:2009/AC:2010
320.	EN 12418:2021 Masonry and stone cutting-off machines for job site - Safety
321.	EN 12453:2017+A1:2021 Industrial, commercial and garage doors and gates - Safety in use of power operated doors - Requirements and test methods
322.	EN 12463:2004+A1:2011 Food processing machinery - Filling machines and auxiliary machines - Safety and hygiene requirements
323.	EN 12505:2000+A1:2009 Food processing machinery - Centrifugal machines for processing edible oils and fats - Safety and hygiene requirements
324.	EN 12525:2000+A2:2010 Agricultural machinery - Front loaders - Safety
325.	EN 12545:2000+A1:2009 Footwear, leather and imitation leather goods manufacturing machines - Noise test code - Common requirements
326.	EN 12547:2014 Centrifuges - Common safety requirements
327.	EN 12549:1999+A1:2008 Acoustics - Noise test code for fastener driving tools - Engineering method
328.	EN 12581:2005+A1:2010 Coating plants - Machinery for dip coating and electrodeposition of organic liquid coating material - Safety requirements
329.	EN 12609:2021 Truck mixers - Safety requirements
330.	EN 12621:2006+A1:2010 Machinery for the supply and circulation of coating materials under pressure - Safety requirements
331.	EN 12622:2009+A1:2013 Safety of machine tools - Hydraulic press brakes

332.	EN 12629-1:2000+A1:2010 Machines for the manufacture of constructional products from concrete and calcium-silicate - Safety - Part 1: Common requirements
333.	EN 12629-2:2002+A1:2010 Machines for the manufacture of constructional products from concrete and calcium-silicate - Safety - Part 2: Block making machines
334.	EN 12629-3:2002+A1:2010 Machines for the manufacture of constructional products from concrete and calcium-silicate - Safety - Part 3: Slide and turntable machines
335.	EN 12629-4:2001+A1:2010 Machines for the manufacture of constructional products from concrete and calcium-silicate - Safety - Part 4: Concrete roof tile making machines
336.	EN 12629-5-1:2003+A1:2010 Machines for the manufacture of constructional products from concrete and calcium-silicate - Safety - Part 5-1: Pipe making machines manufacturing in the vertical axis
337.	EN 12629-5-2:2003+A1:2010 Machines for the manufacture of constructional products from concrete and calcium-silicate - Safety - Part 5-2: Pipe making machines manufacturing in the horizontal axis
338.	EN 12629-5-3:2003+A1:2010 Machines for the manufacture of constructional products from concrete and calcium-silicate - Safety - Part 5-3: Pipe prestressing machines
339.	EN 12629-5-4:2003+A1:2010 Machines for the manufacture of constructional products from concrete and calcium-silicate - Safety - Part 5-4: Concrete pipe coating machines
340.	EN 12629-6:2004+A1:2010 Machines for the manufacture of constructional products from concrete and calcium-silicate - Safety - Part 6: Stationary and mobile equipment for the manufacture of precast reinforced products
341.	EN 12629-7:2004+A1:2010 Machines for the manufacture of constructional products from concrete and calcium-silicate - Safety - Part 7: Stationary and mobile equipment for long line manufacture of prestressed products
342.	EN 12629-8:2002+A1:2010 Machines for the manufacture of constructional products from concrete and calcium-silicate - Safety - Part 8: Machines and equipment for the manufacture of constructional products from calcium-silicate (and concrete)

343.	EN 12635:2002+A1:2008 Industrial, commercial and garage doors and gates - Installation and use Restriction: With regard to paragraph 5.1 and Annex D, this publication does not concern the reference to EN 12453:2000, the application of which does not confer a presumption of conformity to the essential health and safety requirements 1.1.2, 1.1.6, 1.2.1, 1.3.7, 1.3.8.2, 1.4.1, 1.4.3 and 1.5.14 of Annex I to Directive 2006/42/EC.
344.	EN 12644-1:2001+A1:2008 Cranes - Information for use and testing - Part 1: Instructions
345.	EN 12644-2:2000+A1:2008 Cranes - Information for use and testing - Part 2: Marking
346.	EN 12649:2008+A1:2011 Concrete compactors and smoothing machines - Safety
347.	EN 12653:1999+A2:2009 Footwear, leather and imitation leather manufacturing machines - Nailing machines - Safety requirements
348.	EN 12693:2008 Refrigerating systems and heat pumps - Safety and environmental requirements - Positive displacement refrigerant compressors
349.	EN 12717:2001+A1:2009 Safety of machine tools - Drilling machines
350.	EN 12733:2018 Agricultural and forestry machinery - Pedestrian controlled motor mowers - Safety
351.	EN 12753:2005+A1:2010 Thermal cleaning systems for exhaust gas from surface treatment equipment - Safety requirements
352.	EN 12757-1:2005+A1:2010 Mixing machinery for coating materials - Safety requirements - Part 1: Mixing machinery for use in vehicle refinishing
353.	EN 12779:2015 Safety of woodworking machines - Chip and dust extraction systems with fixed installation - Safety requirements
354.	EN 12852:2001+A1:2010 Food processing machinery - Food processors and blenders - Safety and hygiene requirements

355.	EN 12853:2001+A1:2010 Food processing machinery - Hand-held blenders and whisks - Safety and hygiene requirements EN 12853:2001+A1:2010/AC:2010
356.	EN 12854:2003+A1:2010 Food processing machinery - Beam mixers - Safety and hygiene requirements
357.	EN 12855:2003+A1:2010 Food processing machinery - Rotating bowl cutters - Safety and hygiene requirements
358.	EN 12881-1:2014 Conveyor belts - Fire simulation flammability testing - Part 1: Propane burner tests
359.	EN 12881-2:2005+A1:2008 Conveyor belts - Fire simulation flammability testing - Part 2: Large scale fire test
360.	EN 12882:2015 Conveyor belts for general purpose use - Electrical and flammability safety requirements
361.	EN 12921-1:2005+A1:2010 Machines for surface cleaning and pre-treatment of industrial items using liquids or vapours - Part 1: Common safety requirements
362.	EN 12921-2:2005+A1:2008 Machines for surface cleaning and pre-treatment of industrial items using liquids or vapours - Part 2: Safety of machines using water based cleaning liquids
363.	EN 12921-3:2005+A1:2008 Machines for surface cleaning and pre-treatment of industrial items using liquids or vapours - Part 3: Safety of machines using flammable cleaning liquids
364.	EN 12921-4:2005+A1:2008 Machines for surface cleaning and pretreatment of industrial items using liquids and vapours - Part 4: Safety of machines using halogenated solvents
365.	EN 12965:2019 Tractors and machinery for agriculture and forestry - Power take-off (PTO) drive shafts and their guards - Safety
366.	EN 12978:2003+A1:2009 Industrial, commercial and garage doors and gates - Safety devices for power operated doors and gates - Requirements and test methods

367.	EN 12984:2005+A1:2010 Food processing machinery - Portable and/or hand-guided machines and appliances with mechanically driven cutting tools - Safety and hygiene requirements
368.	EN 12999:2020 Cranes - Loader cranes
369.	EN 13000:2010+A1:2014 Cranes - Mobile cranes
370.	EN 13001-1:2015 Cranes - General design - Part 1: General principles and requirements
371.	EN 13001-2:2021 Crane safety - General design - Part 2: Load actions
372.	EN 13001-3-1:2012+A2:2018 Cranes - General Design - Part 3-1: Limit States and proof competence of steel structure
373.	EN 13001-3-2:2014 Cranes - General design - Part 3-2: Limit states and proof of competence of wire ropes in reeving systems
374.	EN 13001-3-3:2014 Cranes - General design - Part 3-3: Limit states and proof of competence of wheel/rail contacts
375.	EN 13001-3-5:2016+A1:2021 Cranes - General design - Part 3-5: Limit states and proof of competence of forged and cast hooks
376.	EN 13001-3-6:2018+A1:2021 Cranes - General design - Part 3-6: Limit states and proof of competence of machinery - Hydraulic cylinders
377.	EN 13015:2001+A1:2008 Maintenance for lifts and escalators - Rules for maintenance instructions
378.	EN 13020:2015 Road surface treatment machines - Safety requirements
379.	EN 13023:2003+A1:2010 Noise measurement methods for printing, paper converting, paper making machines and auxiliary equipment - Accuracy grades 2 and 3

380.	EN 13035-1:2008 Machines and plants for the manufacture, treatment and processing of flat glass - Safety requirements - Part 1: Storage, handling and transportation equipment inside the factory
381.	EN 13035-2:2008 Machines and plants for the manufacture, treatment and processing of flat glass - Safety requirements - Part 2: Storage, handling and transportation equipment outside the factory
382.	EN 13035-3:2003+A1:2009 Machines and plants for the manufacture, treatment and processing of flat glass - Safety requirements - Part 3: Cutting machines EN 13035-3:2003+A1:2009/AC:2010
383.	EN 13035-4:2003+A1:2009 Machines and plants for the manufacture, treatment and processing of flat glass - Safety requirements - Part 4: Tilting tables
384.	EN 13035-5:2006+A1:2009 Machines and plants for the manufacture, treatment and processing of flat glass - Safety requirements - Part 5: Machines and installations for stacking and de-stacking
385.	EN 13035-6:2006+A1:2009 Machines and plants for the manufacture, treatment and processing of flat glass - Safety requirements - Part 6: Machines for break-out
386.	EN 13035-7:2006+A1:2009 Machines and plants for the manufacture, treatment and processing of flat glass - Safety requirements - Part 7: Cutting machines for laminated glass
387.	EN 13035-9:2006+A1:2010 Machines and plants for the manufacture, treatment and processing of flat glass - Safety requirements - Part 9: Washing installations
388.	EN 13035-11:2006+A1:2010 Machines and plants for the manufacture, treatment and processing of flat glass - Safety requirements - Part 11: Drilling machines
389.	EN 13042-1:2007+A1:2009 Machines and plants for the manufacture, treatment and processing of hollow glass - Safety requirements - Part 1: Gob feeder
390.	EN 13042-2:2004+A1:2009 Machines and plants for the manufacture, treatment and processing of hollow glass - Safety requirements - Part 2: Handling machines for feeding

391.	EN 13042-3:2007+A1:2009 Machines and plants for the manufacture, treatment and processing of hollow glass - Safety requirements - Part 3: IS machines
392.	EN 13042-5:2003+A1:2009 Machines and plants for the manufacture, treatment and processing of hollow glass - Safety requirements - Part 5: Presses
393.	EN 13059:2002+A1:2008 Safety of industrial trucks - Test methods for measuring vibration
394.	EN 13102:2005+A1:2008 Ceramic machines - Safety - Loading and unloading of fine clay tiles
395.	EN 13112:2002+A1:2009 Tannery machines - Splitting and bandknife shearing machines - Safety requirements
396.	EN 13113:2002+A1:2010 Tannery machines - Roller coating machines - Safety requirements
397.	EN 13114:2002+A1:2009 Tannery machines - Rotating process vessels - Safety requirements
398.	EN 13120:2009+A1:2014 Internal blinds - Performance requirements including safety EN 13120:2009+A1:2014/AC:2015
399.	EN 13128:2001+A2:2009 Safety of machine tools - Milling machines (including boring machines) EN 13128:2001+A2:2009/AC:2010
400.	EN 13135:2013+A1:2018 Cranes - Safety - Design - Requirements for equipment
401.	EN 13155:2003+A2:2009 Cranes - Safety - Non-fixed load lifting attachments
402.	EN 13157:2004+A1:2009 Cranes - Safety - Hand powered cranes
403.	EN 13204:2016 Double acting hydraulic rescue tools for fire and rescue service use - Safety and performance requirements

404.	EN 13208:2003+A1:2010 Food processing machinery - Vegetable peelers - Safety and hygiene requirements
405.	EN 13241:2003+A2:2016 Industrial, commercial, garage doors and gates — Product standard, performance characteristics Restriction: With regard to paragraphs 4.2.2, 4.2.6, 4.3.2, 4.3.3, 4.3.4, 4.3.6, this publication does not concern the reference to EN 12453:2000, the application of which does not confer a presumption of conformity to the essential health and safety requirements 1.3.7 and 1.4.3 of Annex I to Directive 2006/42/EC.
406.	EN 13288:2005+A1:2009 Food processing machinery - Bowl lifting and tilting machines - Safety and hygiene requirements
407.	EN 13289:2001+A1:2013 Pasta processing plants - Dryers and coolers - Safety and hygiene requirements
408.	EN 13367:2005+A1:2008 Ceramic machines - Safety - Transfer platforms and cars EN 13367:2005+A1:2008/AC:2009
409.	EN 13378:2001+A1:2013 Pasta processing plants - Pasta presses - Safety and hygiene requirements
410.	EN 13379:2001+A1:2013 Pasta processing plants - Spreader, stripping and cutting machine, stick return conveyor, stick magazine - Safety and hygiene requirements
411.	EN 13389:2005+A1:2009 Food processing machinery - Mixers with horizontal shafts - Safety and hygiene requirements
412.	EN 13390:2002+A1:2009 Food processing machinery - Pie and tart machines - Safety and hygiene requirements
413.	EN 13414-1:2003+A2:2008 Steel wire rope slings - Safety - Part 1: Slings for general lifting service
414.	EN 13414-2:2003+A2:2008 Steel wire rope slings - Safety - Part 2: Specification for information for use and maintenance to be provided by the manufacturer

415.	EN 13414-3:2003+A1:2008 Steel wire rope slings - Safety - Part 3: Grommets and cable-laid slings
416.	EN 13418:2013 Plastics and rubber machines - Winding machines for film or sheet - Safety requirements
417.	EN 13448:2001+A1:2009 Agricultural and forestry machinery - Inter-row mowing units - Safety
418.	EN 13457:2004+A1:2010 Footwear, leather and imitation leather goods manufacturing machines - Splitting, skiving, cutting, cementing and cement drying machines - Safety requirements
419.	EN ISO 13482:2014 Robots and robotic devices - Safety requirements for personal care robots (ISO 13482:2014)
420.	EN 13525:2020 Forestry machinery - Wood chippers - Safety
421.	EN 13531:2001+A1:2008 Earth-moving machinery - Tip-over protection structure (TOPS) for compact excavators - Laboratory tests and performance requirements (ISO 12117:1997 modified)
422.	EN 13534:2006+A1:2010 Food processing machinery - Curing injection machines - Safety and hygiene requirements
423.	EN 13557:2003+A2:2008 Cranes - Controls and control stations
424.	EN 13561:2015 External blinds and awnings - Performance requirements including safety EN 13561:2015/AC:2016
425.	EN 13570:2005+A1:2010 Food processing machinery - Mixing machines - Safety and hygiene requirements
426.	EN 13586:2020 Cranes - Access
427.	EN 13591:2005+A1:2009 Food processing machinery - Fixed deck oven loaders - Safety and hygiene requirements

428.	EN 13617-1:2021 Petrol filling stations - Part 1: Safety requirements for construction and performance of metering pumps, dispensers and remote pumping units
429.	EN 13621:2004+A1:2010 Food processing machinery - Salad dryers - Safety and hygiene requirements
430.	EN 13659:2015 Shutters and external venetian blinds - Performance requirements including safety
431.	EN 13675:2004+A1:2010 Safety of machinery - Safety requirements for tube forming and rolling mills and their finishing line equipment
432.	EN 13683:2003+A2:2011 Garden equipment - Integrally powered shredders/chippers - Safety EN 13683:2003+A2:2011/AC:2013
433.	EN 13684:2018 Garden equipment - Pedestrian controlled lawn aerators and scarifiers - Safety
434.	EN 13731:2007 Lifting bag systems for fire and rescue service use - Safety and performance requirements
435.	EN 13732:2022 Food processing machinery - Bulk milk coolers on farms - Requirements for performance, safety and hygiene
436.	EN ISO 13766-2:2018 Earth-moving and building construction machinery - Electromagnetic compatibility (EMC) of machines with internal electrical power supply - Part 2: Additional EMC requirements for functional safety (ISO 13766-2:2018)
437.	EN 13852-1:2013 Cranes - Offshore cranes - Part 1: General-purpose offshore cranes
438.	EN 13852-3:2021 Cranes - Offshore cranes - Part 3: Light offshore cranes
439.	EN 13862:2021 Floor cutting-off machines - Safety
440.	EN 13870:2015+A1:2021 Food processing machinery - Portion cutting machines - Safety and hygiene requirements

441.	EN 13871:2014 Food processing machinery - Cubes cutting machinery - Safety and hygiene requirements
442.	EN 13885:2022 Food processing machinery - Clipping machines - Safety and hygiene requirements
443.	EN 13886:2005+A1:2010 Food processing machinery - Cooking kettles equipped with powered stirrer and/or mixer - Safety and hygiene requirements
444.	EN 13889:2003+A1:2008 Forged steel shackles for general lifting purposes - Dee shackles and bow shackles - Grade 6 - Safety
445.	EN 13951:2012 Liquid pumps - Safety requirements - Agrifoodstuffs equipment; Design rules to ensure hygiene in use
446.	EN 13954:2005+A1:2010 Food processing machinery - Bread slicers - Safety and hygiene requirements
447.	EN 13977:2011 Railway applications - Track - Safety requirements for portable machines and trolleys for construction and maintenance
448.	EN 13985:2003+A1:2009 Machine tools - Safety - Guillotine shears
449.	EN 14010:2003+A1:2009 Safety of machinery - Equipment for power driven parking of motor vehicles - Safety and EMC requirements for design, manufacturing, erection and commissioning stages
450.	EN 14033-3:2017 Railway applications - Track - Railbound construction and maintenance machines - Part 3: General safety requirements
451.	EN 14033-4:2019 Railway applications - Track - Railbound construction and maintenance machines - Part 4: Technical requirements for running, travelling and working on urban rail
452.	EN 14043:2014 High rise aerial appliances for fire and rescue service use - Turntable ladders with combined movements - Safety and performance requirements and test methods

453.	EN 14044:2014 High rise aerial appliances for fire and rescue service use - Turntable ladders with sequential movements - Safety and performance requirements and test methods
454.	EN 14070:2003+A1:2009 Safety of machine tools - Transfer and special-purpose machines EN 14070:2003+A1:2009/AC:2010
455.	EN 14238:2004+A1:2009 Cranes - Manually controlled load manipulating devices
456.	EN ISO 14314:2009 Reciprocal internal combustion engines - Recoil starting equipment - General safety requirements (ISO 14314:2004)
457.	EN 14439:2006+A2:2009 Cranes - Safety - Tower cranes
458.	EN 14462:2005+A1:2009 Surface treatment equipment - Noise test code for surface treatment equipment including its ancillary handling equipment - Accuracy grades 2 and 3
459.	EN 14466:2005+A1:2008 Fire-fighting pumps - Portable pumps - Safety and performance requirements, tests
460.	EN 14492-1:2006+A1:2009 Cranes - Power driven winches and hoists - Part 1: Power driven winches EN 14492-1:2006+A1:2009/AC:2010
461.	EN 14492-2:2006+A1:2009 Cranes - Power driven winches and hoists - Part 2: Power driven hoists EN 14492-2:2006+A1:2009/AC:2010
462.	EN 14502-2:2005+A1:2008 Cranes - Equipment for the lifting of persons - Part 2: Elevating control stations
463.	EN 14655:2005+A1:2010 Food processing machinery - Baguette slicers - Safety and hygiene requirements
464.	EN 14656:2006+A1:2010 Safety of machinery - Safety requirements for extrusion presses for steel and non-ferrous metals

465.	EN 14658:2005+A1:2010 Continuous handling equipment and systems - General safety requirements for continuous handling equipment for opencast lignite mining
466.	EN 14673:2006+A1:2010 Safety of machinery - Safety requirements for hydraulically powered open die hot forging presses for the forging of steel and non-ferrous metals
467.	EN 14677:2008 Safety of machinery - Secondary steelmaking - Machinery and equipment for treatment of liquid steel
468.	EN 14681:2006+A1:2010 Safety of machinery - Safety requirements for machinery and equipment for production of steel by electric arc furnaces
469.	EN 14710-1:2005+A2:2008 Fire-fighting pumps - Fire-fighting centrifugal pumps without primer - Part 1: Classification, general and safety requirements
470.	EN 14710-2:2005+A2:2008 Fire-fighting pumps - Fire-fighting centrifugal pumps without primer - Part 2: Verification of general and safety requirements
471.	EN 14753:2007 Safety of machinery - Safety requirements for machinery and equipment for continuous casting of steel
472.	EN 14886:2008 Plastics and rubber machines - Bandknife cutting machines for block foams - Safety requirements
473.	EN 14910:2007+A1:2009 Garden equipment - Walk-behind combustion engine powered trimmers - Safety
474.	EN 14930:2007+A1:2009 Agricultural and forestry machinery and gardening equipment - Pedestrian controlled and hand-held machines - Determination of accessibility of hot surfaces
475.	EN 14957:2006+A1:2010 Food processing machinery - Dishwashing machines with conveyor - Safety and hygiene requirements
476.	EN 14958:2006+A1:2009 Food processing machinery - Machinery for grinding and processing flour and semolina - Safety and hygiene requirements

477.	EN 14973:2015 Conveyor belts for use in underground installations - Electrical and flammability safety requirements
478.	EN ISO 14982:2009 Agricultural and forestry machinery - Electromagnetic compatibility - Test methods and acceptance criteria (ISO 14982:1998)
479.	EN 14985:2012 Cranes - Slewing jib cranes
480.	EN 15000:2008 Safety of industrial trucks - Self propelled variable reach trucks - Specification, performance and test requirements for longitudinal load moment indicators and longitudinal load moment limiters
481.	EN 15011:2020 Cranes - Bridge and gantry cranes
482.	EN 15027:2007+A1:2009 Transportable wall saw and wire saw equipment for job site - Safety
483.	EN 15056:2006+A1:2009 Cranes - Requirements for container handling spreaders
484.	EN 15059:2009+A1:2015 Snow grooming equipment - Safety requirements
485.	EN 15061:2007+A1:2008 Safety of machinery - Safety requirements for strip processing line machinery and equipment
486.	EN 15067:2007 Plastics and rubber machines - Film converting machines for bags and sacks - Safety requirements
487.	EN 15093:2008 Safety of Machinery - Safety requirements for hot flat rolling mills
488.	EN 15094:2008 Safety of Machinery - Safety requirements for cold flat rolling mills
489.	EN 15095:2007+A1:2008 Power-operated mobile racking and shelving, carousels and storage lifts - Safety requirements
490.	EN 15162:2008 Machines and plants for mining and tooling of natural stone - Safety requirements for gang saws

491.	EN 15163-1:2022 Machines and installations for the exploitation and processing of natural stone - Safety - Part 1: Requirements for stationary diamond wire saws
492.	EN 15163-2:2022 Machines and installations for the exploitation and processing of natural stone - Safety - Part 2: Requirements for transportable diamond wire saws
493.	EN 15164:2008 Machines and plants for mining and tooling of natural stone - Safety - Requirements for chain- and belt-slotting machines
494.	EN 15166:2008 Food processing machinery - Automatic back splitting machines of butchery carcasses - Safety and hygiene requirements
495.	EN 15194:2017 Cycles – Electrically power assisted cycles – EPAC Bicycles Restriction 1: Harmonised standard EN 15194:2017 does not confer a presumption of conformity with the essential health and safety requirements set out in points 1.5.5, 1.5.6 and 1.5.7 of Annex I to Directive 2006/42/EC, which require machinery to be designed and constructed to take into account the risks associated with extreme temperatures, fire and explosion. Restriction 2: Harmonised standard EN 15194:2017 does not confer a presumption of conformity with the essential health and safety requirements set out in points 1.5.9 and 3.6.3.1 of Annex I to Directive 2006/42/EC, which require machinery to be designed and constructed to take into account the risks resulting from vibrations, and that machinery must be provided with the measurement of vibrations transmitted by the machinery to the operator of the machinery.
496.	EN 15268:2008 Petrol filling stations - Safety requirements for the construction of submersible pump assemblies
497.	EN 15503:2009+A2:2015 Garden equipment - Garden blowers, vacuums and blower/vacuums - Safety
498.	EN 15571:2020 Machines and plants for mining and tooling of natural stone - Safety - Requirements for surface-finishing machines
499.	EN 15572:2015 Machines and plants for mining and tooling of natural stone - Safety - Requirements for edge finishing machines

500.	EN 15695-1:2017 Agricultural tractors and self-propelled sprayers - Protection of the operator (driver) against hazardous substances - Part 1: Cab classification, requirements and test procedures
501.	EN 15695-2:2017 Agricultural tractors and self-propelled sprayers - Protection of the operator (driver) against hazardous substances - Part 2: Filters, requirements and test procedures
502.	EN 15700:2011 Safety for conveyor belts for winter sport or leisure use
503.	EN ISO 15744:2008 Hand-held non-electric power tools - Noise measurement code - Engineering method (grade 2) (ISO 15744:2002)
504.	EN 15746-2:2010+A1:2011 Railway applications - Track - Road-rail machines and associated equipment - Part 2: General safety requirements
505.	EN 15774:2010 Food processing machinery - Machines for processing fresh and filled pasta (tagliatelle, cannelloni, ravioli, tortellini, orecchiette and gnocchi) - Safety and hygiene requirements
506.	EN 15811:2014 Agricultural machinery - Fixed guards and interlocked guards with or without guard locking for moving transmission parts (ISO/TS 28923:2012 modified)
507.	EN 15830:2012 Rough-terrain variable reach trucks - Visibility - Test methods and verification
508.	EN 15861:2012 Food processing machinery - Smokehouses - Safety and hygiene requirements
509.	EN 15895:2011+A1:2018 Cartridge operated hand-held tools - Safety requirements - Fixing and hard marking tools
510.	EN 15949:2012 Safety of machinery - Safety requirements for bar mills, structural steel mills and wire rod mills
511.	EN 15954-2:2013 Railway applications - Track - Trailers and associated equipment - Part 2: General safety requirements

512.	EN 15955-2:2013 Railway applications - Track - Demountable machines and associated equipment - Part 2: General safety requirements
513.	EN 15997:2011 All terrain vehicles (ATVs - Quads) - Safety requirements and test methods EN 15997:2011/AC:2012
514.	EN 16005:2012 Power operated pedestrian doorsets - Safety in use - Requirements and test methods EN 16005:2012/AC:2015
515.	EN 16029:2012 Ride-on, motorized vehicles intended for the transportation of persons and not intended for use on public roads - Single-track two-wheel motor vehicles - Safety requirements and test methods
516.	EN ISO 16089:2015 Machine tools - Safety - Stationary grinding machines (ISO 16089:2015)
517.	EN ISO 16092-1:2018 Machine tools safety - Presses - Part 1: General safety requirements (ISO 16092-1:2017)
518.	EN ISO 16092-2:2020 Machine tools safety - Presses - Part 2: Safety requirement for mechanical presses (ISO 16092-2:2019)
519.	EN ISO 16092-3:2018 Machine tools safety - Presses - Part 3: Safety requirements for hydraulic presses (ISO 16092-3:2017)
520.	EN ISO 16092-4:2020 Machine tools safety - Presses - Part 4: Safety requirements for pneumatic presses (ISO 16092-4:2019)
521.	EN ISO 16093:2017 Machine tools - Safety - Sawing machines for cold metal (ISO 16093:2017)
522.	EN ISO 16119-1:2013 Agricultural and forestry machinery - Environmental requirements for sprayers - Part 1: General (ISO 16119-1:2013)
523.	EN ISO 16119-2:2013 Agricultural and forestry machinery - Environmental requirements for sprayers - Part 2: Horizontal boom sprayers (ISO 16119-2:2013, Corrected version 2017-03)

524.	EN ISO 16119-3:2013 Agricultural and forestry machinery - Environmental requirements for sprayers - Part 3: Sprayers for bush and tree crops (ISO 16119-3:2013)
525.	EN ISO 16119-4:2014 Agricultural and forestry machinery - Environmental requirements for sprayers - Part 4: Fixed and semi-mobile sprayers (ISO 16119-4:2014)
526.	EN 16191:2014 Tunnelling machinery - Safety requirements
527.	EN 16203:2014 Safety of Industrial Trucks - Dynamic tests for verification of lateral stability - Counterbalanced Trucks
528.	EN 16228-1:2014+A1:2021 Drilling and foundation equipment - Safety - Part 1: Common requirements
529.	EN 16228-2:2014+A1:2021 Drilling and foundation equipment - Safety - Part 2: Mobile drill rigs for civil and geotechnical engineering, quarrying and mining
530.	EN 16228-3:2014+A1:2021 Drilling and foundation equipment - Safety - Part 3: Horizontal directional drilling equipment (HDD)
531.	EN 16228-4:2014+A1:2021 Drilling and foundation equipment - Safety - Part 4: Foundation equipment
532.	EN 16228-5:2014+A1:2021 Drilling and foundation equipment - Safety - Part 5: Diaphragm walling equipment
533.	EN 16228-6:2014+A1:2021 Drilling and foundation equipment - Safety - Part 6: Jetting, grouting and injection equipment
534.	EN 16228-7:2014+A1:2021 Drilling and foundation equipment - Safety - Part 7: Interchangeable auxiliary equipment
535.	EN 16230-1:2013+A1:2014 Leisure karts - Part 1: Safety requirements and test methods for karts
536.	EN ISO 16230-1:2015 Agricultural machinery and tractors - Safety of higher voltage electrical and electronic components and systems - Part 1: General requirements (ISO 16230-1:2015)

537.	EN ISO 16231-1:2013 Self-propelled agricultural machinery - Assessment of stability - Part 1: Principles (ISO 16231-1:2013)
538.	EN ISO 16231-2:2015 Self-propelled agricultural machinery - Assessment of stability - Part 2: Determination of static stability and test procedures (ISO 16231-2:2015)
539.	EN 16246:2012 Agricultural machinery - Backhoes - Safety
540.	EN 16252:2012 Machines for compacting waste materials or recyclable fractions - Horizontal baling presses - Safety requirements
541.	EN 16307-1:2020 Industrial trucks - Safety requirements and verification - Part 1: Supplementary requirements for self-propelled industrial trucks, other than driverless trucks, variable-reach trucks and burden-carrier trucks
542.	EN 16307-5:2013 Industrial trucks - Safety requirements and verification - Part 5: Supplementary requirements for pedestrian-propelled trucks
543.	EN 16307-6:2014 Industrial trucks - Safety requirements and verification - Part 6: Supplementary requirements for burden and personnel carriers
544.	EN 16327:2014 Fire-fighting - Positive-pressure proportioning systems (PPPS) and compressed-air foam systems (CAFS)
545.	EN 16474:2015 Plastics and rubber machines - Tyre curing machines - Safety requirements
546.	EN 16486:2014+A1:2020 Machines for compacting waste materials or recyclable fractions - Compactors - Safety requirements
547.	EN 16500:2014 Machines for compacting waste materials or recyclable fractions - Vertical baling presses - Safety requirements
548.	EN 16517:2021 Agricultural and forestry machinery - Mobile yarders for timber logging - Safety

549.	EN 16564:2020 Machines and plants for mining and tooling of natural stone - Safety - Requirements for bridge type sawing/milling machines, included numerical control (NC/CNC) versions
550.	EN 16590-3:2014 Tractors and machinery for agriculture and forestry - Safety-related parts of control systems - Part 3: Series development, hardware and software (ISO 25119-3:2010 modified)
551.	EN 16590-4:2014 Tractors and machinery for agriculture and forestry - Safety-related parts of control systems - Part 4: Production, operation, modification and supporting processes (ISO 25119-4:2010, modified)
552.	EN 16712-4:2018 Portable equipment for projecting extinguishing agents supplied by firefighting pumps - Portable foam equipment - Part 4: High expansion foam generators PN16
553.	EN 16719:2018 Transport platforms
554.	EN 16743:2016 Food processing machinery - Automatic industrial slicing machines - Safety and hygiene requirements
555.	EN 16770:2018 Safety of woodworking machines - Chip and dust extraction systems for indoor installation - Safety requirements
556.	EN 16774:2016 Safety of machinery - Safety requirements for steel converter and associated equipment
557.	EN 16808:2020 Petroleum, petrochemical and natural gas industries - Safety of machineries - Manual elevators
558.	EN 16851:2017+A1:2020 Cranes - Light crane systems
559.	EN 16952:2018+A1:2021 Agricultural machinery - Rough-terrain Work Platforms for Orchard's operations (WPO) - Safety
560.	EN 16985:2018 Spray booths for organic coating material - Safety requirements
561.	EN 17003:2021 Road vehicles - Roller brake testers for vehicles of more than 3,5 tons GVW - Safety requirements

562.	EN 17059:2018 Plating and anodizing lines - Safety requirements
563.	EN 17067:2018 Forestry machinery - Safety requirements on radio remote controls
564.	EN 17088:2021 Side curtain ventilation systems - Safety
565.	EN 17106-1:2021 Road operation machinery - Safety - Part 1: General requirements
566.	EN 17106-2:2021 Road operation machinery - Safety - Part 2: Specific requirements for road surface cleaning machines
567.	EN 17106-3-1:2021 Road operation machinery - Safety - Part 3-1: Winter service machines - Requirements for snow clearing machines with rotating tools and snow ploughs
568.	EN 17106-3-2:2021 Road operation machinery - Safety - Part 3-2: Winter service machines - Specific requirements for spreading machines
569.	EN 17106-4:2021 Road operation machinery - Safety - Part 4: Road service area maintenance machines - Requirements for grass and brush cutting machines
570.	EN 17281:2021 Safety requirements - Vehicle cleaning equipment
571.	EN 17348:2022 Requirements for design and testing of vacuum cleaners for use in potentially explosive atmospheres
572.	EN 17352:2022 Power operated pedestrian entrance control equipment - Safety in use - Requirements and test methods
573.	EN ISO 17916:2016 Safety of thermal cutting machines (ISO 17916:2016)
574.	EN ISO 18063-2:2021 Rough-terrain trucks - Visibility test methods and their verification - Part 2: Slewing rough-terrain variable-reach trucks (ISO 18063-2:2021)
575.	EN ISO 19085-1:2021 Woodworking machines - Safety - Part 1: Common requirements (ISO 19085-1:2021)

576.	EN ISO 19085-2:2021 Woodworking machines - Safety - Part 2: Horizontal beam panel circular sawing machines (ISO 19085-2:2021)
577.	EN ISO 19085-3:2021 Woodworking machines - Safety - Part 3: Numerically controlled (NC/CNC) boring and routing machines (ISO 19085-3:2021)
578.	EN ISO 19085-4:2018 Woodworking machines - Safety - Part 4: Vertical panel circular sawing machines (ISO 19085-4:2018)
579.	EN ISO 19085-5:2017 Woodworking machines - Safety - Part 5: Dimension saws (ISO 19085-5:2017)
580.	EN ISO 19085-6:2017 Woodworking machines - Safety - Part 6: Single spindle vertical moulding machines ("toupies") (ISO 19085-6:2017)
581.	EN ISO 19085-7:2019 Woodworking machines - Safety - Part 7: Surface planing, thickness planing, combined surface/thickness planing machines (ISO 19085-7:2019)
582.	EN ISO 19085-8:2018 Woodworking machines - Safety - Part 8: Belt sanding and calibrating machines for straight workpieces (ISO 19085-8:2017)
583.	EN ISO 19085-9:2020 Woodworking machines - Safety - Part 9: Circular saw benches (with and without sliding table) (ISO 19085-9:2019)
584.	EN ISO 19085-10:2019 Woodworking machines - Safety - Part 10: Building site saws (contractor saws) (ISO 19085-10:2018) EN ISO 19085-10:2019/A11:2020
585.	EN ISO 19085-11:2020 Woodworking machines - Safety - Part 11: Combined machines (ISO 19085-11:2020)
586.	EN ISO 19085-13:2020 Woodworking machines - Safety - Part 13: Multi-blade rip sawing machines with manual loading and/or unloading (ISO 19085-13:2020)
587.	EN ISO 19085-14:2021 Woodworking machines - Safety - Part 14: Four-sided moulding machines (ISO 19085-14:2021)

588.	EN ISO 19085-15:2021 Woodworking machines - Safety - Part 15: Presses (ISO 19085-15:2021)
589.	EN ISO 19085-16:2021 Woodworking machines - Safety - Part 16: Table band saws and band re-saws (ISO 19085-16:2021)
590.	EN ISO 19085-17:2021 Woodworking machines - Safety - Part 17: Edge banding machines fed by chains (ISO 19085-17:2021)
591.	EN ISO 19225:2017 Underground mining machines - Mobile extracting machines at the face - Safety requirements for shearer loaders and plough systems (ISO 19225:2017) EN ISO 19225:2017/A1:2019
592.	EN ISO 19296:2018 Mining - Mobile machines working underground - Machine safety (ISO 19296:2018)
593.	EN ISO 19432-1:2020 Building construction machinery and equipment - Portable, hand-held, internal combustion engine-driven abrasive cutting machines - Part 1: Safety requirements for cut-off machines for centre-mounted rotating abrasive wheels (ISO 19432-1:2020)
594.	EN ISO 19472-2:2022 Machinery for forestry - Winches - Part 2: Traction aid winches (ISO 19472-2:2022)
595.	EN ISO 19932-1:2013 Equipment for crop protection - Knapsack sprayers - Part 1: Safety and environmental requirements (ISO 19932-1:2013)
596.	EN ISO 19932-2:2013 Equipment for crop protection - Knapsack sprayers - Part 2: Test methods (ISO 19932-2:2013)
597.	EN ISO 20361:2019 Liquid pumps and pumps units - Noise test code - Grades 2 and 3 of accuracy (ISO 20361:2019) EN ISO 20361:2019/A11:2020
598.	EN ISO 20430:2020 Plastics and rubber machines - Injection moulding machines - Safety requirements (ISO 20430:2020)

599.	EN ISO 21904-1:2020 Health and safety in welding and allied processes - Equipment for capture and separation of welding fume - Part 1: General requirements (ISO 21904-1:2020)
600.	EN ISO 22291:2022 Safety requirements for wetlaid-nonwoven machinery (ISO 22291:2022)
601.	EN ISO 22867:2021 Forestry and gardening machinery - Vibration test code for portable hand-held machines with internal combustion engine - Vibration at the handles (ISO 22867:2021)
602.	EN ISO 22868:2021 Forestry and gardening machinery - Noise test code for portable hand-held machines with internal combustion engine - Engineering method (Grade 2 accuracy) (ISO 22868:2021)
603.	EN ISO 23062:2022 Foundry machinery - Safety requirements for molding and coremaking machinery and associated equipment (ISO 23062:2022)
604.	EN ISO 23125:2015 Machine tools - Safety - Turning machines (ISO 23125:2015, Corrected version 2016-03-15)
605.	EN ISO 28139:2009 Agricultural and forestry machinery - Knapsack combustion-engine-driven mistblowers - Safety requirements (ISO 28139:2009)
606.	EN ISO 28881:2022 Machine tools - Safety - Electrical discharge machines (ISO 28881:2022)
607.	EN ISO 28927-1:2019 Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 1: Angle and vertical grinders (ISO 28927-1:2019)
608.	EN ISO 28927-2:2009 Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 2: Wrenches, nutrunners and screwdrivers (ISO 28927-2:2009) EN ISO 28927-2:2009/A1:2017
609.	EN ISO 28927-3:2009 Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 3: Polishers and rotary, orbital and random orbital sanders (ISO 28927-3:2009)

610.	<p>EN ISO 28927-4:2010</p> <p>Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 4: Straight grinders (ISO 28927-4:2010)</p> <p>EN ISO 28927-4:2010/A1:2018</p>
611.	<p>EN ISO 28927-5:2009</p> <p>Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 5: Drills and impact drills (ISO 28927-5:2009)</p> <p>EN ISO 28927-5:2009/A1:2015</p>
612.	<p>EN ISO 28927-6:2009</p> <p>Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 6: Rammers (ISO 28927-6:2009)</p>
613.	<p>EN ISO 28927-7:2009</p> <p>Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 7: Nibblers and shears (ISO 28927-7:2009)</p>
614.	<p>EN ISO 28927-8:2009</p> <p>Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 8: Saws, polishing and filing machines with reciprocating action and saws with oscillating or rotating action (ISO 28927-8:2009)</p> <p>EN ISO 28927-8:2009/A1:2015</p>
615.	<p>EN ISO 28927-9:2009</p> <p>Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 9: Scaling hammers and needle scalers (ISO 28927-9:2009)</p>
616.	<p>EN ISO 28927-10:2011</p> <p>Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 10: Percussive drills, hammers and breakers (ISO 28927-10:2011)</p>
617.	<p>EN ISO 28927-11:2011</p> <p>Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 11: Stone hammers (ISO 28927-11:2011)</p>
618.	<p>EN ISO 28927-12:2012</p> <p>Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 12: Die grinders (ISO 28927-12:2012)</p>
619.	<p>EN ISO 28927-13:2022</p> <p>Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 13: Fastener driving tools (ISO 28927-13:2022)</p>
620.	<p>EN 50223:2015</p> <p>Stationary electrostatic application equipment for ignitable flock material - Safety requirements</p>

621.	EN 50348:2010 Stationary electrostatic application equipment for non-ignitable liquid coating material - Safety requirements EN 50348:2010/AC:2010
622.	EN 50434:2014 Safety of household and similar appliances - Particular requirements for mains operated shredders and chippers
623.	EN 50569:2013 Household and similar electrical appliances - Safety - Particular requirements for commercial electric spin extractors EN 50569:2013/A1:2018
624.	EN 50570:2013 Household and similar electrical appliances - Safety - Particular requirements for commercial electric tumble dryers EN 50570:2013/A1:2018
625.	EN 50571:2013 Household and similar electrical appliances - Safety - Particular requirements for commercial electric washing machines EN 50571:2013/A1:2018
626.	EN 50580:2012 Safety of hand-held electric motor operated tools - Particular requirements for spray guns EN 50580:2012/A1:2013
627.	EN 50636-2-91:2014 Household and similar electrical appliances - Safety - Part 2-91: Particular requirements for walk-behind and hand-held lawn trimmers and lawn edge trimmers#IEC 60335-2-91:2008 (Modified)
628.	EN 50636-2-92:2014 Household and similar electrical appliances - Safety - Part 2-92: Particular requirements for pedestrian-controlled mains-operated lawn scarifiers and aerators (IEC 60335-2-92:2002, modified)
629.	EN 50636-2-94:2014 Household and similar electrical appliances - Safety - Part 2-94: Particular requirements for scissors type grass shears (IEC 60335-2-94:2008, modified)
630.	EN 50636-2-100:2014 Household and similar electrical appliances - Safety - Part 2-100: Particular requirements for hand-held mains-operated garden blowers, vacuums and blower vacuums (IEC 60335-2-100:2002, modified)

631.	<p>EN 50636-2-107:2015</p> <p>Safety of household and similar appliances - Part 2-107: Particular requirements for robotic battery powered electrical lawnmowers (IEC 60335-2-107:2012, modified)</p> <p>EN 50636-2-107:2015/A1:2018 EN 50636-2-107:2015/A2:2020 EN 50636-2-107:2015/A3:2021</p>
632.	<p>EN 60204-31:2013</p> <p>Safety of machinery - Electrical equipment of machines - Part 31: Particular safety and EMC requirements for sewing machines, units and systems (IEC 60204-31:2013)</p>
633.	<p>EN 60335-1:2012</p> <p>Household and similar electrical appliances - Safety - Part 1: General requirements (IEC 60335-1:2010, modified)</p> <p>EN 60335-1:2012/AC:2014 EN 60335-1:2012/A11:2014 EN 60335-1:2012/A13:2017 EN 60335-1:2012/A15:2021</p>
634.	<p>EN 60335-2-8:2015</p> <p>Household and similar electrical appliances - Safety - Part 2-8: Particular requirements for shavers, hair clippers and similar appliances (IEC 60335-2-8:2012, modified)</p> <p>EN 60335-2-8:2015/A1:2016</p>
635.	<p>EN 60335-2-23:2003</p> <p>Household and similar electrical appliances - Safety - Part 2-23: Particular requirements for appliances for skin or hair care (IEC 60335-2-23:2003)</p> <p>EN 60335-2-23:2003/A2:2015</p>
636.	<p>EN 60335-2-36:2002</p> <p>Household and similar electrical appliances - Safety - Part 2-36: Particular requirements for commercial electric cooking ranges, ovens, hobs and hob elements (IEC 60335-2-36:2002)</p> <p>EN 60335-2-36:2002/A11:2012 EN 60335-2-36:2002/AC:2007</p>
637.	<p>EN 60335-2-37:2002</p> <p>Household and similar electrical appliances - Safety - Part 2-37: Particular requirements for commercial electric deep fat fryers (IEC 60335-2-37:2002)</p> <p>EN 60335-2-37:2002/A11:2012 EN 60335-2-37:2002/AC:2007 EN 60335-2-37:2002/A12:2016</p>

638.	<p>EN 60335-2-40:2003</p> <p>Household and similar electrical appliances - Safety - Part 2-40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers (IEC 60335-2-40:2002, modified)</p> <p>EN 60335-2-40:2003/A11:2004 EN 60335-2-40:2003/A12:2005 EN 60335-2-40:2003/A1:2006 EN 60335-2-40:2003/A13:2012/AC:2013 EN 60335-2-40:2003/A13:2012 EN 60335-2-40:2003/A2:2009 EN 60335-2-40:2003/AC:2006 EN 60335-2-40:2003/AC:2010</p>
639.	<p>EN IEC 60335-2-41:2021</p> <p>Household and similar electrical appliances - Safety - Particular requirements for pumps (IEC 60335-2-41:2012)</p> <p>EN IEC 60335-2-41:2021/A11:2021</p>
640.	<p>EN 60335-2-42:2003</p> <p>Household and similar electrical appliances - Safety - Part 2-42: Particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens (IEC 60335-2-42:2002)</p> <p>EN 60335-2-42:2003/A11:2012 EN 60335-2-42:2003/AC:2007</p>
641.	<p>EN 60335-2-47:2003</p> <p>Household and similar electrical appliances - Safety - Part 2-47: Particular requirements for commercial electric boiling pans (IEC 60335-2-47:2002)</p> <p>EN 60335-2-47:2003/A11:2012 EN 60335-2-47:2003/AC:2007</p>
642.	<p>EN 60335-2-48:2003</p> <p>Household and similar electrical appliances - Safety - Part 2-48: Particular requirements for commercial electric grillers and toasters (IEC 60335-2-48:2002)</p> <p>EN 60335-2-48:2003/A11:2012 EN 60335-2-48:2003/AC:2007</p>
643.	<p>EN 60335-2-49:2003</p> <p>Household and similar electrical appliances - Safety - Part 2-49: Particular requirements for commercial electric appliances for keeping food and crockery warm (IEC 60335-2-49:2002)</p> <p>EN 60335-2-49:2003/A11:2012 EN 60335-2-49:2003/AC:2007</p>
644.	<p>EN 60335-2-58:2005</p> <p>Household and similar electrical appliances - Safety - Part 2-58: Particular requirements for commercial electric dishwashing machines (IEC 60335-2-58:2002, modified)</p> <p>EN 60335-2-58:2005/A12:2016 EN 60335-2-58:2005/A2:2015</p>

645.	<p>EN 60335-2-65:2003</p> <p>Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances (IEC 60335-2-65:2002)</p> <p>EN 60335-2-65:2003/A11:2012</p>
646.	<p>EN 60335-2-67:2012</p> <p>Household and similar electrical appliances - Safety - Part 2-67: Particular requirements for floor treatment machines for commercial use (IEC 60335-2-67:2012, modified)</p>
647.	<p>EN 60335-2-68:2012</p> <p>Household and similar electrical appliances - Safety - Part 2-68: Particular requirements for spray extraction machines, for commercial use (IEC 60335-2-68:2012, modified)</p>
648.	<p>EN 60335-2-69:2012</p> <p>Household and similar electrical appliances - Safety - Part 2-69: Particular requirements for wet and dry vacuum cleaners, including power brush for commercial use (IEC 60335-2-69:2012, modified)</p>
649.	<p>EN 60335-2-72:2012</p> <p>Household and similar electrical appliances - Safety - Part 2-72: Particular requirements for floor treatment machines with or without traction drive, for commercial use (IEC 60335-2-72:2012, modified)</p>
650.	<p>EN 60335-2-79:2012</p> <p>Household and similar electrical appliances - Safety - Part 2-79: Particular requirements for high pressure cleaners and steam cleaners (IEC 60335-2-79:2012, modified)</p>
651.	<p>EN IEC 60335-2-89:2022</p> <p>Household and similar electrical appliances - Safety - Part 2-89: Particular requirements for commercial refrigerating appliances and ice-makers with an incorporated or remote refrigerant unit or motor-compressor (IEC 60335-2-89:2019)</p> <p>EN IEC 60335-2-89:2022/A11:2022</p>
652.	<p>EN 60335-2-95:2015</p> <p>Household and similar electrical appliances - Safety - Part 2-95: Particular requirements for drives for vertically moving garage doors for residential use (IEC 60335-2-95:2011, modified)</p> <p>EN 60335-2-95:2015/A1:2015</p>
653.	<p>EN 60335-2-97:2006</p> <p>Household and similar electrical appliances - Safety - Part 2-97: Particular requirements for drives for rolling shutters, awnings, blinds and similar equipment (IEC 60335-2-97:2002, modified + A1:2004, modified)</p> <p>EN 60335-2-97:2006/A12:2015</p>

654.	EN 60335-2-102:2016 Household and similar electrical appliances - Safety - Part 2-102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections (IEC 60335-2-102:2004, modified, IEC 60335-2-102:2004/A1:2008, modified, IEC 60335-2-102:2004/A2:2012, modified)
655.	EN 60335-2-103:2015 Household and similar electrical appliances - Safety - Part 2-103: Particular requirements for drives for gates, doors and windows (IEC 60335-2-103:2006, modified + A1:2010, modified)
656.	EN 60519-1:2015 Safety in installations for electroheating and electromagnetic processing - Part 1: General requirements (IEC 60519-1:2015)
657.	EN 60745-2-12:2009 Hand-held motor-operated electric tools - Safety - Part 2-12: Particular requirements for concrete vibrators (IEC 60745-2-12:2003, modified + A1:2008)
658.	EN 60745-2-16:2010 Hand-held motor-operated electric tools - Safety - Part 2-16: Particular requirements for tackers (IEC 60745-2-16:2008, modified)
659.	EN 60745-2-18:2009 Hand-held motor-operated electric tools - Safety - Part 2-18: Particular requirements for strapping tools (IEC 60745-2-18:2003, modified + A1:2008)
660.	EN 60745-2-19:2009 Hand-held motor-operated electric tools - Safety - Part 2-19: Particular requirements for jointers (IEC 60745-2-19:2005, modified) EN 60745-2-19:2009/A1:2010
661.	EN 60745-2-20:2009 Hand-held motor-operated electric tools - Safety - Part 2-20: Particular requirements for band saws (IEC 60745-2-20:2003, modified + A1:2008)
662.	EN 60745-2-22:2011 Hand-held motor-operated electric tools - Safety - Part 2-22: Particular requirements for cut-off machines (IEC 60745-2-22:2011, modified) EN 60745-2-22:2011/A11:2013
663.	EN 60745-2-23:2013 Hand-held motor-operated electric tools - Safety - Part 2-23: Particular requirements for die grinders and small rotary tools (IEC 60745-2-23:2012, modified)

664.	<p>EN 60947-5-3:2013</p> <p>Low-voltage switchgear and controlgear - Part 5-3: Control circuit devices and switching elements - Requirements for proximity devices with defined behaviour under fault conditions (PDDB) (IEC 60947-5-3:2013)</p>
665.	<p>EN 60947-5-5:1997</p> <p>Low-voltage switchgear and controlgear - Part 5-5: Control circuit devices and switching elements - Electrical emergency stop device with mechanical latching function (IEC 60947-5-5:1997)</p> <p>EN 60947-5-5:1997/A1:2005 EN 60947-5-5:1997/A11:2013 EN 60947-5-5:1997/A2:2017</p>
666.	<p>EN 61029-2-3:2011</p> <p>Safety of transportable motor-operated electric tools - Part 2-3: Particular requirements for planers and thicknessers (IEC 61029-2-3:1993, modified) + A1:2001)</p>
667.	<p>EN 61029-2-5:2011</p> <p>Safety of transportable motor-operated electric tools - Part 2-5: Particular requirements for band saws (IEC 61029-2-5:1993, modified) + A1:2001, modified)</p> <p>EN 61029-2-5:2011/A11:2015</p>
668.	<p>EN 61029-2-8:2010</p> <p>Safety of transportable motor-operated electric tools - Part 2-8: Particular requirements for single spindle vertical moulders (IEC 61029-2-8:1995, modified + A1:1999)</p>
669.	<p>EN 61029-2-11:2012</p> <p>Safety of transportable motor-operated electric tools - Part 2-11: Particular requirements for combined mitre and bench saws (IEC 61029-2-11:2001, modified)</p> <p>EN 61029-2-11:2012/A11:2013</p>
670.	<p>EN 61029-2-12:2011</p> <p>Safety of transportable motor-operated electric tools - Part 2-12: Particular requirements for threading machines (IEC 61029-2-12:2010, modified)</p>
671.	<p>EN 62841-1:2015</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 1: General requirements (IEC 62841-1:2014, modified)</p> <p>EN 62841-1:2015/AC:2015 EN 62841-1:2015/A11:2022</p>

672.	<p>EN 62841-2-1:2018</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-1: Particular requirements for hand-held drills and impact drills (IEC 62841-2-1:2017, modified)</p> <p>EN 62841-2-1:2018/A11:2019 EN 62841-2-1:2018/A12:2022 EN 62841-2-1:2018/A1:2022</p>
673.	<p>EN 62841-2-2:2014</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-2: Particular requirements for hand-held screwdrivers and impact wrenches (IEC 62841-2-2:2014, modified)</p> <p>EN 62841-2-2:2014/AC:2015</p>
674.	<p>EN IEC 62841-2-3:2021</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-3: Particular requirements for hand-held grinders, disc-type polishers and disc-type sanders (IEC 62841-2-3:2020)</p> <p>EN IEC 62841-2-3:2021/A11:2021</p>
675.	<p>EN 62841-2-4:2014</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-4: Particular requirements for hand-held sanders and polishers other than disc type (IEC 62841-2-4:2014, modified)</p> <p>EN 62841-2-4:2014/AC:2015</p>
676.	<p>EN 62841-2-5:2014</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-5: Particular requirements for hand-held circular saws (IEC 62841-2-5:2014, modified)</p>
677.	<p>EN IEC 62841-2-6:2020</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-6: Particular requirements for hand-held hammers (IEC 62841-2-6:2020)</p> <p>EN IEC 62841-2-6:2020/A11:2020</p>
678.	<p>EN 62841-2-8:2016</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-8: Particular requirements for hand-held shears and nibblers (IEC 62841-2-8:2016, modified)</p>
679.	<p>EN 62841-2-9:2015</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-9: Particular requirements for hand-held tappers and threaders (IEC 62841-2-9:2015, modified)</p> <p>EN 62841-2-9:2015/AC:2016-10</p>

680.	<p>EN 62841-2-10:2017</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-10: Particular requirements for hand-held mixers (IEC 62841-2-10:2017, modified)</p>
681.	<p>EN 62841-2-11:2016</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-11: Particular requirements for hand-held reciprocating saws (IEC 62841-2-11:2015, modified)</p> <p>EN 62841-2-11:2016/A1:2020</p>
682.	<p>EN 62841-2-14:2015</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-14: Particular requirements for hand-held planers (IEC 62841-2-14:2015, modified)</p>
683.	<p>EN 62841-2-17:2017</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-17: Particular requirements for hand-held routers (IEC 62841-2-17:2017, modified)</p>
684.	<p>EN 62841-2-21:2019</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-21: Particular requirements for hand-held drain cleaners (IEC 62841-2-21:2017, modified)</p>
685.	<p>EN 62841-3-1:2014</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-1: Particular requirements for transportable table saws (IEC 62841-3-1:2014, modified)</p> <p>EN 62841-3-1:2014/AC:2015 EN 62841-3-1:2014/A11:2017 EN 62841-3-1:2014/A1:2021 EN 62841-3-1:2014/A12:2021</p>
686.	<p>EN 62841-3-4:2016</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-4: Particular requirements for transportable bench grinders (IEC 62841-3-4:2016, modified)</p> <p>EN 62841-3-4:2016/A11:2017 EN 62841-3-4:2016/A12:2020</p>
687.	<p>EN IEC 62841-3-5:2022</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-5: Particular requirements for transportable band saws (IEC 62841-3-5:2022)</p> <p>EN IEC 62841-3-5:2022/A11:2022</p>

688.	<p>EN 62841-3-6:2014</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-6: Particular requirements for transportable diamond drills with liquid system (IEC 62841-3-6:2014, modified)</p> <p>EN 62841-3-6:2014/AC:2015 EN 62841-3-6:2014/A11:2017 EN 62841-3-6:2014/A12:2022 EN 62841-3-6:2014/A1:2022</p>
689.	<p>EN IEC 62841-3-7:2021</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-7: Particular requirements for transportable wall saws (IEC 62841-3-7:2020)</p> <p>EN IEC 62841-3-7:2021/A11:2021</p>
690.	<p>EN IEC 62841-3-9:2020</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-9: Particular requirements for transportable mitre saws (IEC 62841-3-9:2020)</p> <p>EN IEC 62841-3-9:2020/A11:2020</p>
691.	<p>EN 62841-3-10:2015</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-10: Particular requirements for transportable cut-off machines (IEC 62841-3-10:2015, modified)</p> <p>EN 62841-3-10:2015/AC:2016-07 EN 62841-3-10:2015/A11:2017 EN 62841-3-10:2015/A12:2022 EN 62841-3-10:2015/A1:2022</p>
692.	<p>EN 62841-3-12:2019</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-12: Particular requirements for transportable threading machines (IEC 62841-3-12:2017)</p>
693.	<p>EN 62841-3-13:2017</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-13: Particular requirements for transportable drills (IEC 62841-3-13:2017, modified)</p>
694.	<p>EN 62841-3-14:2017</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-14: Particular requirements for transportable drain cleaners (IEC 62841-3-14:2017, modified)</p>
695.	<p>EN 62841-4-1:2020</p> <p>Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 4-1: Particular requirements for chain saws (IEC 62841-4-1:2017, modified)</p>

696.	<p>EN 62841-4-2:2019</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4-2: Particular requirements for hedge trimmers (IEC 62841-4-2:2017, modified)</p> <p>EN 62841-4-2:2019/A1:2022</p> <p>EN 62841-4-2:2019/A11:2022</p>
697.	<p>EN IEC 62841-4-3:2021</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4-3: Particular requirements for pedestrian controlled walk-behind lawnmowers (IEC 62841-4-3:2020)</p> <p>EN IEC 62841-4-3:2021/A11:2021</p>
698.	<p>EN IEC 62841-4-5:2021</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4-5: Particular requirements for grass shears (IEC 62841-4-5:2021)</p> <p>EN IEC 62841-4-5:2021/A11:2021</p>
699.	<p>EN IEC 62841-4-7:2022</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4-7: Particular requirements for pedestrian controlled walk-behind lawn scarifiers and aerators (IEC 62841-4-7:2022)</p> <p>EN IEC 62841-4-7:2022/A11:2022</p>
700.	<p>EN ISO/IEC 80079-38:2016</p> <p>Explosive atmospheres - Part 38: Equipment and components in explosive atmospheres in underground mines (ISO/IEC 80079-38:2016)</p> <p>EN ISO/IEC 80079-38:2016/A1:2018</p>

ANNEX II

PART ONE

B-TYPE STANDARDS

1. Explanatory note.

B-type standards deal with specific aspects of machinery safety or specific types of safeguard that can be used across a wide range of categories of machinery. Application of the specifications of B-type standards confers a presumption of conformity with the essential health and safety requirements of the Machinery Directive that they cover when a C-type standard or the manufacturer's risk assessment shows that a technical solution specified by the B-type standard is adequate for the particular category or model of machinery concerned. Application of B-type standards that give specifications for safety components that are independently placed on the market confers a presumption of conformity for the safety components concerned and for the essential health and safety requirements covered by the standards.

2. List of references of standards.

No	Reference of standard	Date of withdrawal
1.	EN ISO 11202:2010 Acoustics - Noise emitted by machinery and equipment - Determination of emission sound pressure levels at a work station and at other specified positions applying approximate environmental corrections (ISO 11202:2010)	11 October 2023
2.	EN 15967:2011 Determination of maximum explosion pressure and the maximum rate of pressure rise of gases and vapours	2 February 2025
3.	EN 62061:2005 Safety of machinery - Functional safety of safety-related electrical, electronic and programmable electronic control systems (IEC 62061:2005) EN 62061:2005/AC:2010 EN 62061:2005/A1:2013 EN 62061:2005/A2:2015	11 October 2023

PART TWO

C-TYPE STANDARDS

1. Explanatory note.

C-type standards provide specifications for a given category of machinery. The different types of machinery belonging to the category covered by a C-type standard have a similar intended use and present similar hazards. C-type standards may refer to A or B-type standards, indicating which of the specifications of the A or B-type standard are applicable to the category of machinery concerned. When, for a given aspect of machinery safety, a C-type standard deviates from the specifications of an A or B-type standard, the specifications of the C-type standard take precedence over the specifications of the A or B-type standard. Application of the specifications of a C-type standard on the basis of the manufacturer's risk assessment confers a presumption of conformity with the essential health and safety requirements of the Machinery

Directive covered by the standard. Certain C-type standards are organised as a series of several parts, Part 1 of the standard giving general specifications applicable to a family of machinery and other parts of the standard giving specifications for specific categories of machinery belonging to the family, supplementing or modifying the general specifications of Part 1. For C-type standards organised in this way, the presumption of conformity with the essential health and safety requirements of the Machinery Directive is conferred by application of the general Part 1 of the standard together with the relevant specific part of the standard.

2. List of references of standards.

No	Reference of standard	Date of withdrawal
1.	EN 280:2013+A1:2015 Mobile elevating work platforms - Design calculations - Stability criteria - Construction - Safety - Examinations and tests	2 February 2025
2.	EN 303-5:2012 Heating boilers - Part 5: Heating boilers for solid fuels, manually and automatically stoked, nominal heat output of up to 500 kW - Terminology, requirements, testing and marking	11 October 2023
3.	EN 415-3:1999+A1:2009 Safety of packaging machines - Part 3: Form, fill and seal machines	2 February 2025
4.	EN 474-2:2006+A1:2008 Earth-moving machinery - Safety - Part 2: Requirements for tractor-dozers	2 February 2025
5.	EN 474-3:2006+A1:2009 Earth-moving machinery - Safety - Part 3: Requirements for loaders	2 February 2025
6.	EN 474-4:2006+A2:2012 Earth-moving machinery - Safety - Part 4: Requirements for backhoe loaders	2 February 2025
7.	EN 474-5:2006+A3:2013 Earth-moving machinery - Safety - Part 5: Requirements for hydraulic excavators	2 February 2025
8.	EN 474-6:2006+A1:2009 Earth-moving machinery - Safety - Part 6: Requirements for dumpers	2 February 2025
9.	EN 474-7:2006+A1:2009 Earth-moving machinery - Safety - Part 7: Requirements for scrapers	2 February 2025
10.	EN 474-8:2006+A1:2009 Earth-moving machinery - Safety - Part 8: Requirements for graders	2 February 2025

11.	EN 474-9:2006+A1:2009 Earth-moving machinery - Safety - Part 9: Requirements for pipelayers	2 February 2025
12.	EN 474-10:2006+A1:2009 Earth-moving machinery - Safety - Part 10: Requirements for trenchers	2 February 2025
13.	EN 474-11:2006+A1:2008 Earth-moving machinery - Safety - Part 11: Requirements for earth and landfill compactors	2 February 2025
14.	EN 474-12:2006+A1:2008 Earth-moving machinery - Safety - Part 12: Requirements for cable excavators	2 February 2025
15.	EN 500-4:2011 Mobile road construction machinery - Safety - Part 4: Specific requirements for compaction machines	2 February 2025
16.	EN 528:2008 Rail dependent storage and retrieval equipment - Safety requirements	2 February 2024
17.	EN 619:2002+A1:2010 Continuous handling equipment and systems - Safety and EMC requirements for equipment for mechanical handling of unit loads	2 February 2025
18.	EN 620:2002+A1:2010 Continuous handling equipment and systems - Safety and EMC requirements for fixed belt conveyors for bulk materials	2 February 2025
19.	EN 703:2004+A1:2009 Agricultural machinery - Silage loading, mixing and/or chopping and distributing machines - Safety	2 February 2025
20.	EN 710:1997+A1:2010 Safety requirements for foundry moulding and coremaking machinery and plant associated equipment EN 710:1997+A1:2010/AC:2012	2 February 2025
21.	EN 746-3:1997+A1:2009 Industrial thermoprocessing equipment - Part 3: Safety requirements for the generation and use of atmosphere gases	2 February 2025

22.	EN 1034-4:2005+A1:2009 Safety of machinery - Safety requirements for the design and construction of paper making and finishing machines - Part 4: Pulpers and their loading facilities	2 February 2025
23.	EN 1501-1:2011+A1:2015 Refuse collection vehicles - General requirements and safety requirements - Part 1: Rear loaded refuse collection vehicles	11 October 2023
24.	EN 1501-2:2005+A1:2009 Refuse collection vehicles and associated lifting devices - General requirements and safety requirements - Part 2: Side loaded refuse collection vehicles	11 October 2023
25.	EN 1501-3:2008 Refuse collection vehicles and their associated lifting devices - General requirements and safety requirements - Part 3: Front loaded refuse collection vehicles	11 October 2023
26.	EN 1501-5:2011 Refuse collection vehicles - General requirements and safety requirements - Part 5: Lifting devices for refuse collection vehicles	11 October 2023
27.	EN 1755:2000+A2:2013 Safety of industrial trucks - Operation in potentially explosive atmospheres - Use in flammable gas, vapour, mist and dust	2 February 2024
28.	EN 1756-1:2001+A1:2008 Tail lifts - Platform lifts for mounting on wheeled vehicles - Safety requirements - Part 1: Tail lifts for goods	11 October 2023
29.	EN 1807-1:2013 Safety of woodworking machines - Band sawing machines - Part 1: Table band saws and band re-saws	2 February 2025
30.	EN 1829-1:2010 High pressure water jet machines - Safety requirements - Part 1: Machines	11 October 2023
31.	EN ISO 3691-6:2015 Industrial trucks - Safety requirements and verification - Part 6: Burden and personnel carriers (ISO 3691-6:2013) EN ISO 3691-6:2015/AC:2016	2 February 2025
32.	EN ISO 4254-1:2015 Agricultural machinery - Safety - Part 1: General requirements (ISO 4254-1:2013)	2 February 2025

33.	EN ISO 4254-6:2009 Agricultural machinery - Safety - Part 6: Sprayers and liquid fertilizer distributors (ISO 4254-6:2009) EN ISO 4254-6:2009/AC:2010	2 February 2025
34.	EN ISO 11680-1:2011 Machinery for forestry - Safety requirements and testing for pole-mounted powered pruners - Part 1: Machines fitted with an integral combustion engine (ISO 11680-1:2011)	2 February 2025
35.	EN ISO 11680-2:2011 Machinery for forestry - Safety requirements and testing for pole-mounted powered pruners - Part 2: Machines for use with back-pack power source (ISO 11680-2:2011)	2 February 2025
36.	EN ISO 11681-1:2011 Machinery for forestry - Portable chain-saw safety requirements and testing - Part 1: Chain-saws for forest service (ISO 11681-1:2011)	2 February 2025
37.	EN ISO 11681-2:2011 Machinery for forestry - Portable chain-saw safety requirements and testing - Part 2: Chain-saws for tree service (ISO 11681-2:2011) EN ISO 11681-2:2011/A1:2017	2 February 2025
38.	EN ISO 11806-1:2011 Agricultural and forestry machinery - Safety requirements and testing for portable, hand-held, powered brush-cutters and grass-trimmers - Part 1: Machines fitted with an integral combustion engine (ISO 11806-1:2011)	2 February 2025
39.	EN ISO 11806-2:2011 Agricultural and forestry machinery - Safety requirements and testing for portable, hand-held, powered brush-cutters and grass-trimmers - Part 2: Machines for use with back-pack power unit (ISO 11806-2:2011)	2 February 2025
40.	EN ISO 11850:2011 Machinery for forestry - General safety requirements (ISO 11850:2011) EN ISO 11850:2011/A1:2016	2 February 2025
41.	EN 12012-4:2006+A1:2008 Plastics and rubber machines - Size reduction machines - Part 4: Safety requirements for agglomerators	2 February 2024
42.	EN 12158-1:2000+A1:2010 Builders' hoists for goods - Part 1: Hoists with accessible platforms	2 February 2025

43.	EN 12312-5:2005+A1:2009 Aircraft ground support equipment - Specific requirements - Part 5: Aircraft fuelling equipment	11 October 2023
44.	EN 12331:2003+A2:2010 Food processing machinery - Mincing machines - Safety and hygiene requirements	2 February 2024
45.	EN 12355:2003+A1:2010 Food processing machinery - Derinding-, skinning- and membrane removal machines - Safety and hygiene requirements	2 February 2025
46.	EN 12418:2000+A1:2009 Masonry and stone cutting-off machines for job site - Safety	2 February 2025
47.	EN 12750:2013 Safety of woodworking machines - Four sided moulding machines	2 February 2025
48.	EN 13001-2:2014 Crane safety - General design - Part 2: Load actions	11 October 2023
49.	EN 13001-3-5:2016 Cranes - General design - Part 3-5: Limit states and proof of competence of forged hooks	2 February 2025
50.	EN 13019:2001+A1:2008 Machines for road surface cleaning - Safety requirements	2 February 2025
51.	EN 13021:2003+A1:2008 Winter service machines - Safety requirements	2 February 2025
52.	EN 13118:2000+A1:2009 Agricultural machinery - Potato harvesting equipment - Safety	2 February 2025
53.	EN 13140:2000+A1:2009 Agricultural machinery - Sugar beet and fodder beet harvesting equipment - Safety	2 February 2025
54.	EN 13524:2003+A2:2014 Highway maintenance machines - Safety requirements	2 February 2025
55.	EN 13617-1:2012 Petrol filling stations - Part 1: Safety requirements for construction and performance of metering pumps, dispensers and remote pumping units	2 February 2025

56.	EN 13732:2013 Food processing machinery - Bulk milk coolers on farms - Requirements for performance, safety and hygiene	2 February 2025
57.	EN 13862:2001+A1:2009 Floor cutting-off machines - Safety	2 February 2025
58.	EN 13870:2015 Food processing machinery - Portion cutting machines - Safety and hygiene requirements	2 February 2025
59.	EN 13885:2005+A1:2010 Food processing machinery - Clipping machines - Safety and hygiene requirements	2 February 2025
60.	EN 15163:2008 Machines and installations for the exploitation and processing of natural stone - Safety - Requirements for diamond wire saws	2 February 2024
61.	EN 16228-1:2014 Drilling and foundation equipment - Safety - Part 1: Common requirements	2 February 2025
62.	EN 16228-2:2014 Drilling and foundation equipment - Safety - Part 2: Mobile drill rigs for civil and geotechnical engineering, quarrying and mining	2 February 2025
63.	EN 16228-3:2014 Drilling and foundation equipment - Safety - Part 3: Horizontal directional drilling equipment (HDD)	2 February 2025
64.	EN 16228-4:2014 Drilling and foundation equipment - Safety - Part 4: Foundation equipment	2 February 2025
65.	EN 16228-5:2014 Drilling and foundation equipment - Safety - Part 5: Diaphragm walling equipment	2 February 2025
66.	EN 16228-6:2014 Drilling and foundation equipment - Safety - Part 6: Jetting, grouting and injection equipment	2 February 2025
67.	EN 16228-7:2014 Drilling and foundation equipment - Safety - Part 7: Interchangeable auxiliary equipment	2 February 2025
68.	EN ISO 18217:2015 Safety of woodworking machines - Edge-banding machines fed by chain(s) (ISO 18217:2015)	2 February 2025

69.	EN ISO 19085-1:2017 Woodworking machines - Safety - Part 1: Common requirements (ISO 19085-1:2017)	11 October 2023
70.	EN ISO 19085-2:2017 Woodworking machines - Safety - Part 2: Horizontal beam panel circular sawing machines (ISO 19085-2:2017, Corrected version 2017-11-01)	2 February 2025
71.	EN ISO 22867:2011 Forestry and gardening machinery - Vibration test code for portable hand-held machines with internal combustion engine - Vibration at the handles (ISO 22867:2011)	2 February 2025
72.	EN ISO 22868:2011 Forestry and gardening machinery - Noise test code for portable hand-held machines with internal combustion engine - Engineering method (Grade 2 accuracy) (ISO 22868:2011)	11 October 2023
73.	EN ISO 28881:2013 Machine tools - Safety - Electro-discharge machines (ISO 28881:2013) EN ISO 28881:2013/AC:2013	2 February 2025
74.	EN ISO 28927-1:2009 Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 1: Angle and vertical grinders (ISO 28927-1:2009) EN ISO 28927-1:2009/A1:2017	2 February 2025
75.	EN 60335-2-77:2010 Safety of household and similar appliances - Part 2-77: Particular requirements for pedestrian-controlled walk-behind electrically powered lawn mowers (IEC 60335-2-77:2002, modified)	2 February 2025
76.	EN 60335-2-89:2010 Household and similar electrical appliances - Safety - Part 2-89: Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor (IEC 60335-2-89:2010) EN 60335-2-89:2010/A1:2016 EN 60335-2-89:2010/A2:2017	2 February 2025

77.	EN 60745-2-3:2011 Hand-held motor-operated electric tools - Safety - Part 2-3: Particular requirements for grinders, polishers and disk-type sanders (IEC 60745-2-3:2006, modified + A1:2010, modified) EN 60745-2-3:2011/A2:2013 EN 60745-2-3:2011/A11:2014 EN 60745-2-3:2011/A12:2014 EN 60745-2-3:2011/A13:2015	2 February 2025
78.	EN 60745-2-15:2009 Hand-held motor-operated electric tools - Safety - Part 2-15: Particular requirements for hedge trimmers (IEC 60745-2-15:2006, modified) EN 60745-2-15:2009/A1:2010	2 February 2025
79.	EN 62841-1:2015 Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 1: General requirements (IEC 62841-1:2014, modified) EN 62841-1:2015/AC:2015	2 February 2025

ANNEX III

C-TYPE STANDARDS

1. Explanatory note.

C-type standards provide specifications for a given category of machinery. The different types of machinery belonging to the category covered by a C-type standard have a similar intended use and present similar hazards. C-type standards may refer to A or B-type standards, indicating which of the specifications of the A or B-type standard are applicable to the category of machinery concerned. When, for a given aspect of machinery safety, a C-type standard deviates from the specifications of an A or B-type standard, the specifications of the C-type standard take precedence over the specifications of the A or B-type standard. Application of the specifications of a C-type standard on the basis of the manufacturer's risk assessment confers a presumption of conformity with the essential health and safety requirements of the Machinery Directive covered by the standard. Certain C-type standards are organised as a series of several parts, Part 1 of the standard giving general specifications applicable to a family of machinery and other parts of the standard giving specifications for specific categories of machinery belonging to the family, supplementing or modifying the general specifications of Part 1. For C-type standards organised in this way, the presumption of conformity with the essential health and safety requirements of the Machinery Directive is conferred by application of the general Part 1 of the standard together with the relevant specific part of the standard.

2. List of references of standards.

No	Reference of standard	Date of withdrawal
1.	EN 303-5:2021 Heating boilers - Part 5: Heating boilers for solid fuels, manually and automatically stoked, nominal heat output of up to 500 kW - Terminology, requirements, testing and marking	2 February 2025
2.	EN 474-1:2006+A6:2019 Earth-moving machinery - Safety - Part 1: General requirements Restriction 1: This publication does not concern clause 5.8.1 Visibility-Operator's field of view of this standard, but only in relation with EN 474-5:2006+A3:2013 requirements for hydraulic excavators, the application of which does not confer a presumption of conformity to the essential health and safety requirements 1.2.2 and 3.2.1 of Annex I to Directive 2006/42/EC. Restriction 2: With regards to Annex B.2 – Quick couplers, the harmonised standard EN 474-1:2006+A6:2019 does not confer a presumption of conformity to the essential health and safety requirements 1.1.2 b), 1.1.2 c) and 1.3.3 of Annex I to Directive 2006/42/EC when applied in combination with EN 474-4:2006+A2:2012 requirements for backhoe loaders and EN 474-5:2006+A3:2013 requirements for hydraulic excavators.	2 February 2025
3.	EN 13001-3-6:2018 Cranes - General design - Part 3-6: Limit states and proof of competence of machinery - Hydraulic cylinders	11 October 2023

4.	<p>EN 16952:2018</p> <p>Agricultural machinery - Rough-terrain Work Platforms for Orchard's operations (WPO) - Safety</p>	2 February 2025
5.	<p>EN ISO 19085-3:2017</p> <p>Woodworking machines - Safety requirements - Part 3: Numerically controlled (NC) boring and routing machines (ISO 19085-3:2017)</p> <p>Restriction: With regard to its point 6.6.2.2.3.1, the harmonised standard EN ISO 19085-3:2017 does not confer a presumption of conformity with the essential health and safety requirement set out in point 1.4.1 of Annex I to Directive 2006/42/EC, which requires that guards and protective devices must not be easy to by-pass.</p>	2 February 2025
6.	<p>EN 50636-2-107:2015</p> <p>Safety of household and similar appliances - Part 2-107: Particular requirements for robotic battery powered electrical lawnmowers (IEC 60335-2-107:2012, modified)</p> <p>EN 50636-2-107:2015/A1:2018 EN 50636-2-107:2015/A2:2020</p>	11 October 2023
7.	<p>EN 60335-1:2012</p> <p>Household and similar electrical appliances - Safety - Part 1: General requirements (IEC 60335-1:2010, modified)</p> <p>EN 60335-1:2012/AC:2014 EN 60335-1:2012/A11:2014 EN 60335-1:2012/A13:2017</p>	11 October 2023
8.	<p>EN 62841-4-2:2019</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4-2: Particular requirements for hedge trimmers (IEC 62841-4-2:2017, modified)</p>	2 February 2025
9.	<p>EN 62841-2-1:2018</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-1: Particular requirements for hand-held drills and impact drills (IEC 62841-2-1:2017, modified)</p> <p>EN 62841-2-1:2018/A11:2019</p>	2 February 2025
10.	<p>EN 62841-3-1:2014</p> <p>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-1: Particular requirements for transportable table saws (IEC 62841-3-1:2014, modified)</p> <p>EN 62841-3-1:2014/AC:2015 EN 62841-3-1:2014/A11:2017</p>	2 February 2025

11.	EN 62841-3-6:2014 Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-6: Particular requirements for transportable diamond drills with liquid system (IEC 62841-3-6:2014, modified) EN 62841-3-6:2014/AC:2015 EN 62841-3-6:2014/A11:2017	2 February 2025
12.	EN 62841-3-10:2015 Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-10: Particular requirements for transportable cut-off machines (IEC 62841-3-10:2015, modified) EN 62841-3-10:2015/AC:2016-07 EN 62841-3-10:2015/A11:2017	2 February 2025

COMMISSION IMPLEMENTING DECISION (EU) 2023/1587**of 1 August 2023****amending Implementing Decision (EU) 2022/1668 as regards harmonised standards on performance requirements and test methods for electrical equipment for the detection and measurement of oxygen****(Text with EEA relevance)**

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EU) No 1025/2012 of the European Parliament and of the Council of 25 October 2012 on European standardisation, amending Council Directives 89/686/EEC and 93/15/EEC and Directives 94/9/EC, 94/25/EC, 95/16/EC, 97/23/EC, 98/34/EC, 2004/22/EC, 2007/23/EC, 2009/23/EC and 2009/105/EC of the European Parliament and of the Council and repealing Council Decision 87/95/EEC and Decision No 1673/2006/EC of the European Parliament and of the Council ⁽¹⁾, and in particular Article 10(6) thereof,

Whereas:

- (1) In accordance with Article 12 of Directive 2014/34/EU of the European Parliament and of the Council ⁽²⁾, products which are in conformity with harmonised standards or parts thereof, the references of which have been published in the *Official Journal of the European Union*, are to be presumed to be in conformity with the essential health and safety requirements set out in Annex II to that Directive covered by those standards or parts thereof.
- (2) By letter BC/CEN/46-92 – BC/CLC/05-92 of 12 December 1994, the Commission made a request to the European Committee for Standardization (CEN) and the European Committee for Electrotechnical Standardization (Cenelec) for the drafting and revision of harmonised standards in support of Directive 94/9/EC of the European Parliament and of the Council ⁽³⁾ ('the request'). That Directive was replaced by Directive 2014/34/EU without changing the essential health and safety requirements set out in Annex II to Directive 94/9/EC. Those requirements are currently set out in Annex II to Directive 2014/34/EU.
- (3) In particular, CEN and Cenelec were requested to draft new standards on the design and testing of equipment for use in potentially explosive atmospheres as indicated in Chapter I of the standardisation programme agreed between CEN and Cenelec and the Commission and attached to the request. CEN and Cenelec were also requested to revise the existing standards with a view to aligning them to the essential health and safety requirements of Directive 94/9/EC.
- (4) On the basis of the request, CEN revised the following harmonised standard, the reference of which is published by Commission Implementing Decision (EU) 2022/1668 ⁽⁴⁾: EN 50104:2010 – Electrical apparatus for the detection and measurement of oxygen – Performance requirements and test methods. This resulted in the adoption of the harmonised standard EN 50104:2019 – Requirements for electrical equipment for the detection and measurement of oxygen – performance requirements and test methods. On the basis of the request, CEN amended the harmonised standard EN 50104:2019. It resulted in the adoption of the amended harmonised standard EN 50104:2019/A1:2023– Requirements for electrical equipment for the detection and measurement of oxygen – performance requirements and test methods.

⁽¹⁾ OJ L 316, 14.11.2012, p. 12.

⁽²⁾ Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to equipment and protective systems intended for use in potentially explosive atmospheres (OJ L 96, 29.3.2014, p. 309).

⁽³⁾ Directive 94/9/EC of the European Parliament and the Council of 23 March 1994 on the approximation of the laws of the Member States concerning equipment and protective systems intended for use in potentially explosive atmospheres (OJ L 100, 19.4.1994, p. 1).

⁽⁴⁾ Commission Implementing Decision (EU) 2022/1668 of 28 September 2022 on harmonised standards for equipment and protective systems intended for use in potentially explosive atmospheres drafted in support of Directive 2014/34/EU of the European Parliament and of the Council (OJ L 251, 29.9.2022, p. 6).

- (5) The Commission together with CEN has assessed whether the standard EN 50104:2019 as amended by EN 50104:2019/A1:2023 complies with the request.
- (6) The standard EN 50104:2019 as amended by EN 50104:2019/A1:2023 satisfies the requirements it aims to cover and which are set out in Annex II to Directive 2014/34/EU. It is therefore appropriate to publish the reference of this standard in the *Official Journal of the European Union*.
- (7) Implementing Decision (EU) 2022/1668 provides in Annex I thereto the references of harmonised standards conferring a presumption of conformity with Directive 2014/34/EU. In order to ensure that the references of harmonised standards drafted in support of Directive 2014/34/EU are listed in one act, the reference of harmonised standard EN 50104:2019 as amended by EN 50104:2019/A1:2023 should be included in that Annex.
- (8) It is necessary to withdraw from the L series of the Official Journal of the European Union the reference of harmonised standard EN 50104:2010, given that it has been revised. It is therefore appropriate to delete that reference from Annex I to Implementing Decision (EU) 2022/1668.
- (9) In order to give manufacturers sufficient time to prepare for application of harmonised standard EN 50104:2019 as amended by EN 50104:2019/A1:2023 it is necessary to defer the withdrawal of the reference of the harmonised standard EN 50104:2010.
- (10) Implementing Decision (EU) 2022/1668 should therefore be amended accordingly.
- (11) Compliance with the harmonised standards confers a presumption of conformity with the corresponding essential requirements set out in Union harmonisation legislation from the date of publication of the reference of such standard in the *Official Journal of the European Union*. This Decision should therefore enter into force on the date of its publication,

HAS ADOPTED THIS DECISION:

Article 1

Annex I to Implementing Decision (EU) 2022/1668 is amended in accordance with the Annex to this Decision.

Article 2

This Decision shall enter into force on the day of its publication in the *Official Journal of the European Union*.

Point (1) of the Annex shall apply from 2 February 2025.

Done at Brussels, 1 August 2023.

For the Commission
The President
Ursula VON DER LEYEN

ANNEX

Annex I is amended as follows:

- (1) row 60 is deleted;
- (2) the following row is inserted:

'60a.	EN 50104:2019 Electrical equipment for the detection and measurement of oxygen – Performance requirements and test methods EN 50104:2019/A1:2023'.
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