SLOVENSKI STANDARD
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Samonakladalni mobilni mešalniki za beton - Varnostne zahteve in preverjanje

Self-loading mobile concrete mixers - Safety requirements and verification

Selbstladende mobile Betonmischer - Sicherheitsanforderungen und Überprüfung

Malaxeurs à béton mobiles avec autochargeur - Exigences de sécurité et vérification

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NORME EUROPÉENNE
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EN 18142

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English Version

Self-loading mobile concrete mixers - Safety requirements and verification

Malaxeurs à béton mobiles avec autochargeur - Exigences de sécurité et vérification

Selbstladende mobile Betonmischer - Sicherheitsanforderungen und Überprüfung

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SIST EN 18142:2027

Contents

Page

European foreword 5
Introduction 6
1 Scope 7
2 Normative references 7
3 Terms and definitions 11
4 Safety requirements and/or protective/risk reduction measures 12
4.1 General 12
4.2 Access systems 12
4.2.1 General requirements 12
4.2.2 Access to articulated SLMs 12
4.3 Operator's station on the SLM 13
4.3.1 General requirements 13
4.3.2 Operator's station equipped with a cab 13
4.3.3 Operator-protective structures 15
4.4 Operator's seat 15
4.4.1 General requirements 15
4.4.2 Dimensions 15
4.4.3 Adjustment 15
4.4.4 Vibration 16
4.4.5 Restraint system 16
4.5 Operator's controls and indicators 16
4.5.1 General 16
4.5.2 Engine start 16
4.5.3 Controls activation 16
4.5.4 Inadvertent activation 17
4.5.5 Pedals 17
4.5.6 Emergency loading equipment lowering 17
4.5.7 Uncontrolled motion 17
4.5.8 Multiple operating positions 17
4.5.9 Reversible operating position 17
4.5.10 Visual displays, control panels, indicators and symbols 17
4.6 Steering systems 18
4.6.1 General 18
4.6.2 Wheeled SLMs 18
4.7 Brake systems 18
4.8 Visibility 18
4.8.1 Operator's field of view 18
4.8.2 Lighting, signalling and marking lights, and reflex-reflector devices 19
4.9 Warning devices 19
4.10 Tyres and rims 19
4.11 Stability 19
4.12 Noise 20
4.12.1 Requirements for noise reduction 20
4.12.2 Noise emission measurement 20

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SIST EN 18142:2027 • https://standards.iteh.ai/catalog/standards/sist/2c9fc4a6-b3f3-4d76-870c-9fae59d3516f/sist-en-18142-2027

SIST EN 18142:2027

4.13 Protective measures and devices 21
4.13.1 Hot parts 21
4.13.2 Moving parts 21
4.13.3 Guards 21
4.13.4 Articulated frame lock 21
4.13.5 Sharp edges and acute angles 21
4.13.6 Fenders 21
4.14 Retrieval, transportation, lifting and towing 22
4.14.1 Common use 22
4.14.2 Retrieval 22
4.14.3 Tying-down 22
4.14.4 Lifting 22
4.14.5 Off-road towing 22
4.14.6 Transportation 22
4.15 Electromagnetic compatibility 22
4.16 Electrical and electronic systems 22
4.16.1 General 22
4.16.2 Degree of protection 23
4.16.3 Electrical connections 23
4.16.4 Over-current protective devices 23
4.16.5 Batteries 23
4.16.6 Battery disconnection 23
4.16.7 Electrical connectors for auxiliary starting aids 24
4.16.8 Electric sockets for lighting 24
4.17 Hydraulic systems 24
4.17.1 General requirements 24
4.17.2 Hydraulic lines 24
4.17.3 Hydraulic hose assemblies 24
4.18 Fuel tanks, DEF/urea tanks, hydraulic tanks and pressure vessels 24
4.18.1 General 24
4.18.2 Filler openings 24
4.18.3 Fuel tanks 25
4.18.4 Simple pressure vessels 25
4.19 Fire protection 25
4.19.1 Fire resistance 25
4.19.2 Fire extinguisher 25
4.20 Rotating drum and related equipment 25
4.20.1 Rotating drum 25
4.20.2 Rollers 25
4.20.3 Loading equipment 25
4.20.4 Discharging chute 26
4.20.5 Cleaning system 26
4.21 Maintenance 26
4.21.1 General 26
4.21.2 Routine maintenance 26
4.21.3 Support devices 27
4.21.4 Access to the engine compartment 27
4.22 Underground operation in non-explosive atmospheres 27
4.22.1 General 27
4.22.2 Lighting, signalling and marking lights, and reflex-reflector devices 27
4.22.3 Engine exhaust emission and fuel 27
4.23 Safety functions 28

5 Verification of safety requirements and/or protective/risk reduction measure 30

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SIST EN 18142:2027

6 Information for use 34
6.1 General 34
6.2 Safety labels 34
6.3 Operator's manual 34
6.3.1 General 34
6.3.2 Information concerning airborne noise emission 35
6.3.3 Information concerning hand-arm and whole-body vibration emission 36
6.3.4 Information concerning the rotating drum and materials related to the work cycle 37
6.4 Maintenance manual 37
6.5 Marking 38

Annex A (informative) List of significant hazards 39

Annex ZA (informative) Relationship between this European Standard and the essential requirements of Regulation (EU) 2023/1230 aimed to be covered 47

Bibliography 51

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European foreword

This document (EN 18142:2026) has been prepared by Technical Committee CEN/TC 151 “Construction equipment and building material machines - Safety”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2027 and conflicting national standards shall be withdrawn at the latest by May 2027.

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

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

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

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

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Introduction

This document is a type-C standard as stated in EN ISO 12100.

This document is of relevance, in particular, for the following stakeholder groups representing the market players with regard to machinery safety:

— machine manufacturers (small, medium and large enterprises);

— health and safety bodies (regulators, accident prevention organizations, market surveillance, etc.).

Others can be affected by the level of machinery safety achieved with the means of the document by the above-mentioned stakeholder groups:

— machine users/employers (small, medium and large enterprises);

— machine users/employees (e.g. trade unions, organizations for people with special needs);

— service providers, e.g. for maintenance (small, medium and large enterprises);

— consumers (in the case of machinery intended for use by consumers).

The above-mentioned stakeholder groups have been given the possibility to participate at the drafting process of this document.

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The machinery concerned and the extent to which hazards, hazardous situations or hazardous events are covered are indicated in the Scope of this document.

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When requirements of this type-C standard are different from those which are stated in type-A or type-B standards, the requirements of this type-C standard take precedence over the requirements of the other standards for machines that have been designed and built according to the requirements of this type-C standard.

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1 Scope

This document specifies general safety requirements for self-loading mobile concrete mixers (here-after referred to as “SLMs”) as defined in ISO 18650-1:2021, with rigid or articulated wheeled chassis.

This document applies to SLMs which are designed for front or rear loading and can be provided with a slewing and/or tilting frame where the rotating drum and the self-loading equipment (lift arms and bucket) are mounted on. SLMs can also be fitted with accessories such as water dosing means and a weighing system.

This document is not applicable to the following:

— machines designed primarily for earth moving, such as loaders or dumpers (see applicable parts of the EN 474 series);

— truck mixers (see EN 12609).

This document deals with all significant hazards, hazardous situations and events relevant to SLMs, whether used as intended and under conditions foreseen or under conditions of misuse reasonably foreseeable by the manufacturer (see Annex A).

This document does not provide performance levels required for safety related functions of control systems.

NOTE A document providing detailed description of safety functions for SLMs and related performance levels required is under development.

This document does not address hazards that can occur:

— during manufacture;

— when using SLMs on public roads, where specific local road regulations can apply;

— when operating in potentially explosive atmospheres.

This document does not address hazards specifically related to:

— SLMs designed to operate with varying levels of autonomy or when SLMs have embedded safety-systems with fully or partially self-evolving behaviour or logic using machine learning approaches, including collaborative applications;

— SLMs when intended to be connected to the internet or to an external network or device that communicates with it (protection against corruption).

This document is not applicable to SLMs manufactured before the date of its publication.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1032:2003+A1:2008, *Mechanical vibration — Testing of mobile machinery in order to determine the vibration emission value*

EN 60204-1:2018,[1] *Safety of machinery — Electrical equipment of machines — Part 1: General requirements*

[1] As impacted by EN 60204-1:2018/A1:2025.

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EN 60529:1991,[2] *Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989)*

EN ISO 2860:2008, *Earth-moving machinery — Minimum access dimensions (ISO 2860:1992)*

EN ISO 2867:2011, *Earth-moving machinery — Access systems (ISO 2867:2011)*

EN ISO 3164:2013,[3] *Earth-moving machinery — Laboratory evaluations of protective structures — Specifications for deflection-limiting volume*

EN ISO 3411:2007, *Earth-moving machinery — Physical dimensions of operators and minimum operator space envelope (ISO 3411:2007)*

EN ISO 3449:2008, *Earth-moving machinery — Falling-object protective structures — Laboratory tests and performance requirements (ISO 3449:2005)*

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)*

EN ISO 3457:2008, *Earth-moving machinery — Guards — Definitions and requirements (ISO 3457:2003)*

EN ISO 3471:2008, *Earth-moving machinery — Roll-over protective structures — Laboratory tests and performance requirements (ISO 3471:2008)*

EN ISO 3744:2026, *Acoustics — Determination of sound power levels of noise sources using sound pressure — Engineering methods for an essentially free field over a reflecting plane (ISO 3744:2025, including corrected version 2026-01)*

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EN ISO 4413:2010, *Hydraulic fluid power — General rules and safety requirements for systems and their components (ISO 4413:2010)*

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EN ISO 4871:2009, *Acoustics — Declaration and verification of noise emission values of machinery and equipment (ISO 4871:1996)*

EN ISO 5010:2019, *Earth-moving machinery — Wheeled machines — Steering requirements (ISO 5010:2019)*

EN ISO 6682:2008, *Earth-moving machinery — Zones of comfort and reach for controls (ISO 6682:1986, including Amd 1:1989)*

EN ISO 6683:2025, *Earth-moving machinery — Seat-belt assemblies and seat-belt anchorages — Performance requirements and tests (ISO 6683:2025)*

EN ISO 7096:2020, *Earth-moving machinery — Laboratory evaluation of operator seat vibration (ISO 7096:2020)*

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)*

EN ISO 12100:2010, *Safety of machinery — General principles for design — Risk assessment and risk reduction (ISO 12100:2010)*

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[2] As impacted by EN 60529:1991/A1:2000, EN 60529:1991/A2:2013, EN 60529:1991/AC:2016-12, EN 60529:1991/corrigendum May 1993 and EN 60529:1991/A2:2013/AC:2019-02.

[3] As impacted by EN ISO 3164:2013/A1:2024.

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EN ISO 13766-1:2018, *Earth-moving and building construction machinery — Electromagnetic compatibility (EMC) of machines with internal electrical power supply — Part 1: General EMC requirements under typical electromagnetic environmental conditions (ISO 13766-1:2018)*

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)*

EN ISO 13850:2015, *Safety of machinery — Emergency stop function — Principles for design (ISO 13850:2015)*

EN ISO 13857:2019, *Safety of machinery — Safety distances to prevent hazard zones being reached by upper and lower limbs (ISO 13857:2019)*

EN ISO 14119:2025, *Safety of machinery - Interlocking devices associated with guards - Principles for design and selection (ISO 14119:2024)*

EN ISO 14120:2015, *Safety of machinery — Guards — General requirements for the design and construction of fixed and movable guards (ISO 14120:2015)*

EN ISO 19014-1:2018, *Earth-moving machinery — Functional safety — Part 1: Methodology to determine safety-related parts of the control system and performance requirements (ISO 19014-1:2018, Corrected version 2019-02)*

EN ISO 19014-2:2022, *Earth-moving machinery — Functional safety — Part 2: Design and evaluation of hardware and architecture requirements for safety-related parts of the control system (ISO 19014-2:2022)*

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ISO 3776-1:2006, *Tractors and machinery for agriculture — Seat belts — Part 1: Anchorage location requirements*

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ISO 3776-2:2013, *Tractors and machinery for agriculture — Seat belts — Part 2: Anchorage strength requirements*

ISO 3776-3:2009, *Tractors and machinery for agriculture — Seat belts — Part 3: Requirements for assemblies*

ISO 3795:1989, *Road vehicles, and tractors and machinery for agriculture and forestry — Determination of burning behaviour of interior materials*

ISO 5006:2017, *Earth-moving machinery — Operator's field of view — Test method and performance criteria*

ISO 6011:2023, *Earth-moving machinery — Visual display of machine operation*

ISO 6750-1:2019, *Earth-moving machinery — Operator's manual — Part 1: Contents and format*

ISO 7000:2019, *Graphical symbols for use on equipment — Registered symbols*

ISO 9244:2008,[4] *Earth-moving machinery — Machine safety labels — General principles*

ISO 9533:2010, *Earth-moving machinery — Machine-mounted audible travel alarms and forward horns — Test methods and performance criteria*

[4] As impacted by ISO 9244:2008/Amd 1:2016.

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ISO 10263-3:2009, *Earth-moving machinery — Operator enclosure environment — Part 3: Pressurization test method*

ISO 10263-4:2009, *Earth-moving machinery — Operator enclosure environment — Part 4: Heating, ventilating and air conditioning (HVAC) test method and performance*

ISO 10264:1990, *Earth-moving machinery — Key-locked starting systems*

ISO 10532:1995,[5] *Earth-moving machinery — Machine-mounted retrieval device — Performance requirements*

ISO 10533:1993,[6] *Earth-moving machinery — Lift-arm support devices*

ISO 10570:2004, *Earth-moving machinery — Articulated frame lock — Performance requirements*

ISO 10968:2020, *Earth-moving machinery — Operator's controls*

ISO 11112:1995,[7] *Earth-moving machinery — Operator's seat — Dimensions and requirements*

ISO 11862:1993, *Earth-moving machinery — Auxiliary starting aid electrical connector*

ISO 12508:1994, *Earth-moving machinery — Operator station and maintenance areas — Bluntness of edges*

ISO 12509:2023, *Earth-moving machinery and rough-terrain trucks — Lighting, signalling and marking lights, and reflex reflectors*

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ISO 14990-1:2016, *Earth-moving machinery — Electrical safety of machines utilizing electric drives and related components and systems — Part 1: General requirements*

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ISO 14990-2:2016, *Earth-moving machinery — Electrical safety of machines utilizing electric drives and related components and systems — Part 2: Particular requirements for externally-powered machines*

ISO 14990-3:2016, *Earth-moving machinery — Electrical safety of machines utilizing electric drives and related components and systems — Part 3: Particular requirements for self-powered machines*

ISO 15817:2012, *Earth-moving machinery — Safety requirements for remote operator control systems*

ISO 15818:2017, *Earth-moving machinery — Lifting and tying-down attachment points — Performance requirements*

ISO 21507:2010, *Earth-moving machinery — Performance requirements for non-metallic fuel tanks*

[5] As impacted by ISO 10532:1995/Amd 1:2004 and ISO 10532:1995/Cor 1:2006.
[6] As impacted by ISO 10533:1993/Amd 1:2005.
[7] As impacted by ISO 11112:1995/Amd 1:2001.

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3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN ISO 12100:2010 and the following apply.

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

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

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

3.1
self-loading equipment
integral mounted bucket-supporting structure and linkage permanently fitted to the SLM, enabling it to fill its own rotating drum with material

3.2
rated capacity
volume in cubic metres of ready concrete, produced per each cycle, declared by the manufacturer, in working conditions on flat ground with slump class S1 according to EN 206:2013+A2:2021, measured in non-vibrated formwork

3.3
operating mass
mass of the SLM, with rotating drum and self-loading equipment (3.1) empty, and with the operator (75 kg), full fuel tank and all fluid systems (i.e. hydraulic oil, transmission oil, engine oil, engine coolant) at the levels specified by the manufacturer and with empty water tank(s)

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3.4
Compact SLM
SLM with a rated capacity less than 2,5 m^3

3.5
operator's station(s)
area from which the operator can control all or specific SLM functions

3.5.1
operator's station on the SLM
operator's station located on the SLM from which the seated operator can control at least the travelling function

3.5.2
operator's station on the ground
operator's station located on the SLM from which the operator standing on the ground can control specific SLM functions other than the travelling function

3.6
operator's manual
document that identifies SLM covered and containing information describing and illustrating the safe operation, maintenance, and safety precautions applicable to the machine and addressed to the operator

Note 1 to entry: This is correlating to the term Instruction handbook used in EN ISO 12100:2010.

[SOURCE: ISO 6750-1:2019, 3.13, modified — Added "and addressed to the operator".]

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3.7
maintenance manual
document that identifies SLM covered and containing information describing and illustrating the safe maintenance, and safety precautions applicable to the SLM and not addressed to the operator

3.8
reusable fitting
hose fitting that is so designed that it can be disassembled from a hose assembly and reassembled to another hose assembly without losing its function

[SOURCE: ISO 8330:2022, 3.6.3.6]

3.9
crab steering mode
steering mode where all wheels of the SLM steer in the same direction

4 Safety requirements and/or protective/risk reduction measures

4.1 General

SLMs shall comply with the safety requirements and/or protective/risk reduction measures of this clause. In addition, the SLM shall be designed according to the principles of EN ISO 12100:2010 for relevant but not significant hazards which are not dealt with by this document.

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4.2 Access systems

4.2.1 General requirements

Access systems shall be provided to the operator's station on the SLM and to routine maintenance points. Access systems shall conform to EN ISO 2867:2011.

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4.2.2 Access to articulated SLMs

On SLMs with articulated frames and in the fully articulated steering position, a minimum clearance of 150 mm shall be provided between firm structures and components with relative movement in the path of the access systems to the operator's station on the SLM, as illustrated in Figure 1.

Dimensions in millimetres

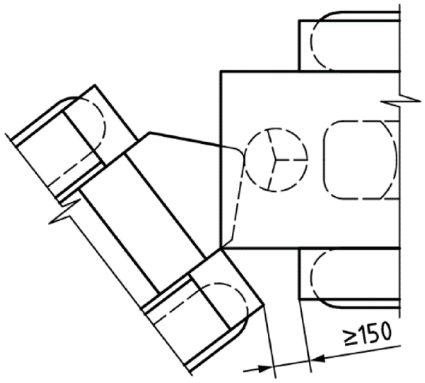


Figure 1 — Minimum clearance for access to operator's station on the SLM with articulated frame

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4.3 Operator's station on the SLM

4.3.1 General requirements

4.3.1.1 Fitting of a cab

SLMs excluding compact SLMs shall have provisions for fitting an enclosed cab.

4.3.1.2 Minimum space

The minimum space available to the operator shall be as defined in EN ISO 3411:2007, with the following exceptions:

— dimension R_1 as defined in EN ISO 3411:2007, Table 1, may be reduced to a minimum of 920 mm;

— the internal operator's space envelope width from the lower end of upper side walls of enclosure as defined in EN ISO 3411:2007 may be reduced to a minimum of 650 mm.

The minimum space and location of the controls at the operator's station shall meet the requirements of EN ISO 6682:2008.

4.3.1.3 Moving parts

The SLM shall be designed so as to avoid accidental contact from the operating position with moving parts (e.g. wheels, tracks, working equipment, attachments) in accordance with 4.13.2.

4.3.1.4 Engine exhaust

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The engine exhaust system shall release the exhaust gas away from the operator and the air inlet of the cab.

4.3.1.5 Instruction storage

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A space intended for operator´s manual safekeeping shall be provided in the cab. If no cab is fitted, the space shall be provided near the operator's station.

4.3.1.6 Sharp edges

The operator's working space within the operator's station (e.g. ceiling, inner walls, instrument panels, access to the operator's station) shall not present any sharp exposed edges or acute angles/corners. The radius of corners and the bluntness of edges shall conform to ISO 12508:1994, in order to avoid sharp edges.

4.3.2 Operator's station equipped with a cab

4.3.2.1 Climatic conditions

The cab shall protect the operator against foreseeable adverse climatic conditions. Provisions shall be made to install a ventilation system, an adjustable heating system and a system for defrosting windows. For details, see 4.3.2.5 to 4.3.2.7.

4.3.2.2 Pipes and hoses

Pipes and hoses that contain fluids at pressures exceeding 5 MPa or temperatures above 60 °C located inside the cab shall be guarded in accordance with EN ISO 3457:2008, Clause 9. See also 4.17.3.

Parts or components placed between pipes or hoses and the operator, which divert a hazardous spray of fluid, may be considered as a sufficient protection device.

4.3.2.3 Primary opening

A primary access opening shall be provided. The dimensions shall be in accordance with EN ISO 2867:2011.

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