#### FINAL DRAFT

## AMENDMENT

## ISO 3164:2013 FDAM 1

ISO/TC 127/SC 2

Secretariat: ANSI

Voting begins on: 2023-09-12

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### Earth-moving machinery — Laboratory evaluations of protective structures — Specifications for deflection-limiting volume

## AMENDMENT 1

Engins de terrassement — Étude en laboratoire des structures de protection — Spécifications pour le volume limite de déformation

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This document was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*, Subcommittee SC 2, *Safety, ergonomics and general requirements*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 151, *Construction equipment and building material machines - Safety*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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# Earth-moving machinery — Laboratory evaluations of protective structures — Specifications for deflection-limiting volume

#### **AMENDMENT 1**

4.4

Replace the paragraph with the following:

The DLV may be constructed so that the upper portion of the DLV can be rotated laterally and/ or longitudinally about the SIP up to 16°. The portion of the DLV below the SIP does not rotate. See examples of rotation of the DLV given in Figure 4.

NOTE During TOPS and ROPS testing, it is permissible for the upper portion of the DLV to be rotated in accordance with the requirements of the applicable TOPS and ROPS test document (e.g. ISO 3471, ISO 12117, ISO 12117-2, ISO 13459).

4.4, Table 1

Delete Table 1.

<u>ISO 3164:2013/FDAmd 1</u>

Bibliography Bibliography

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Add Bibliography as follows:

#### **Bibliography**

[1] ISO 3471, Earth-moving machinery — Roll-over protective structures — Laboratory tests and performance requirements

[2] ISO 12117, Earth-moving machinery — Tip-over protection structure (TOPS) for compact excavators — Laboratory tests and performance requirements

[3] ISO 12117-2, Earth-moving machinery — Laboratory tests and performance requirements for protective structures of excavators — Part 2: Roll-over protective structures (ROPS) for excavators of over 6 t

[4] ISO 13459, Earth-moving machinery — Trainer seat — Deflection limiting volume, space envelope and performance requirements

#### Annex ZA

(informative)

# Relationship between this European Standard and the essential requirements of Directive2006/42/EC aimed to be covered

This European Standard has been prepared under a Commission's standardization request "M/396 Mandate to CEN and CENELEC for Standardisation in the field of machinery" to provide one voluntary means of conforming to essential requirements of Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC (recast).

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive, and associated EFTA regulations.

## Table ZA.1 — Correspondence between this European Standard and Annex I of Directive 2006/42/EC

The relevant Essential Require- ments of Directive 2006/42/EC	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
3.4.3 Roll-over and tip-over	4.1; 4.2; 4.3; 4.4; 4.5; 5.1; 5.2; 5.3; 5.4	
3.4.4 Falling Objects	4.1; 4.2; 4.3; 4.5; 5.1; 5.2; 5.3; 5.4	ai)

WARNING 2 Other Union legislation may be applicable to the product(s) falling within the scope of this standard.

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