

Earth-moving machinery — Safety

Part 7: Requirements for scrapers

National foreword

This British Standard is the UK implementation of EN 474-7:2022. It supersedes BS EN 474-7:2006+A1:2009, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee B/513/1, Earth moving machinery (International).

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

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Amendments/corrigenda issued since publication

Date

Text affected

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Earth-moving machinery - Safety - Part 7: Requirements for scrapers

Engins de terrassement - Sécurité - Partie 7 :
Prescriptions applicables aux décapeuses

Erdbaumaschinen - Sicherheit - Teil
7: Anforderungen für Scraper

This European Standard was approved by CEN on 14 February 2022.

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Annex ZA (informative)

Relationship between this European Standard and the essential requirements of Directive 2006/42/EC machinery, and amending Directive 95/16/EC (recast) [2006 L157] aimed to be covered

This European Standard has been prepared under a Commission's standardization request M/396 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) [2006 L157].

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 Directive 2006/42/EC [2006 L157]

The relevant Essential Requirements of Directive 2006/42/EC	Clause(s)/subclause(s) of this EN	Remarks/Notes
1.1.2 (a)	4 , 5 , 6	
1.1.2 (c)	4 , 5 , 6	
1.1.2 (d)	4 , 5 , 6	
1.1.2 (e)	4 , 5 , 6	
1.1.3 Materials and products	4.1.2	
1.1.4 Lighting	4.1.2	
1.1.5 Design of machinery to facilitate its handling	4.5 , 5	
1.1.6 Ergonomics	4.2 , 4.3.1 , 5	
1.1.7 Operating positions	4.1.2	
1.1.8 Seating	4.2 , 5	
1.2.1 Safety and reliability of control systems	4.3.1 , 5	The document does not provide performance requirements for the safety related parts of control systems
1.2.2 Control devices	4.3.1 , 5	
1.2.3 Starting	4.3.1 , 5	
1.2.4.1 Normal stop	4.3.1 , 5	
1.2.6 Failure of the power supply	4.3.1 , 5	
1.3.1 Risk of loss of stability	4.5 , 5 , 6.2	
1.3.2 Risk of break-up during operation	6.2	
1.3.3 Risks due to falling or ejected objects	4.1.2	
1.3.4 Risks due to surfaces, edges or angles	4.4 , 5	

The relevant Essential Requirements of Directive 2006/42/EC	Clause(s)/subclause(s) of this EN	Remarks/Notes
1.3.6 Risks related to variations in operating conditions	4.2 , 4.3.2 , 5	
1.3.7 Risks related to moving parts	4.4 , 5	
1.3.8 Coice of protection against risks arising from moving parts	4.4 , 5	
1.3.8.1 Moving transmission parts	4.4 , 5	
1.3.9 Risks of uncontrolled movements	4.3.2 , 5	
1.4.1 General requirements	4.4 , 5	
1.4.2.1 Fixed guards	4.4 , 5	
1.4.2.2 Interlocking movable guards	4.4 , 5	
1.4.2.3 Adjustable guards restricting access	4.4 , 5	
1.4.3 Special requirements for protective devices	4.4 , 5	
1.5.1 Electricity supply	4.1.2	
1.5.3 Energy supply other than electricity	4.1.2	
1.5.4 Errors of fitting	4.1.2	
1.5.5 Extreme temperatures	4.1.2	Not applicable for this type of machinery in the scope
1.5.6 Fire	4.1.2	
1.5.7 Explosion	4.1.2	
1.5.8 Noise	4.1.2	
1.5.9 Vibrations	4.2 , 5	
1.5.11 External radiation	4.1.2	
1.5.12 Laser radiation		Not covered
1.5.13 Emissions of hazardous materials and substances	4.1.2	
1.5.14 Risk of being trapped in a machine	4.1.2	Not applicable for this type of machinery in the scope
1.5.15 Risk of slipping, tripping or falling	4.1.2	
1.5.16 Lightning		Not covered
1.6.1 Machinery maintenance	4.4 , 5	
1.6.2 Access to operating positions and servicing points	4.4 , 5	
1.6.3 Isolation of energy sources	4.3 , 4.4 , 5	
1.6.4 Operator intervention	4.1.2	
1.7.1 Information and warnings on the machinery	4.1.2	
1.7.1.1 Information and information devices	4.3 , 5	
1.7.2 Warning of residual risks	6	
1.7.3 Marking of machinery	4.5 , 5 , 6.2	
1.7.4 Instructions	6.2	
1.7.4.1 General principles for the drafting of instructions	6.2	

The relevant Essential Requirements of Directive 2006/42/EC	Clause(s)/subclause(s) of this EN	Remarks/Notes
1.7.4.2 Contents of the instructions	6.2	
1.7.4.3 Sales literature		Not covered
2.2.1 General		Not applicable for this type of machinery in the scope
2.2.1.1 Instructions		Not applicable for this type of machinery in the scope
3.2.1 Driving position	6.2	
3.2.2 Seating	4.2, 5	
3.2.3 Positions for other persons	4.2, 5	
3.3 Control systems	4.3, 5	
3.3.1 Control devices	4.3.1, 5	
3.3.2 Starting/moving	4.3.1, 4.5.1, 5	
3.3.3 Travelling function	4.3.1, 4.3.2, 5	
3.3.4 Movement of pedestrian-controlled machinery	4.1.2	Not applicable for this type of machinery in the scope
3.3.5 Control circuit failure	4.1.2	
3.4.1 Uncontrolled movements	4.1.2	
3.4.2 Moving transmission parts	4.4, 5	
3.4.3 Roll-over and tip-over	4.2, 5	
3.4.4 Falling objects	4.2, 5	
3.4.5 Means of access	4.1.2	
3.4.6 Towing devices	4.5.2, 5	
3.4.7 Transmission of power between self-propelled machinery (or tractor) and recipient machinery		Not covered
3.5.1 Batteries	4.1.2	
3.5.2 Fire	4.1.2	
3.6.1 Signs, signals and warnings	4.3, 5	
3.6.2 Marking	4.1.2	
3.6.3.1 Vibrations	6.2	
3.6.3.2 Multiple uses	4.1.2	Not applicable for this type of machinery in the scope
4.1.2.1 Risks due to lack of stability	4.1.2	Not applicable for this type of machinery in the scope
4.1.2.3 Mechanical strength	4.1.2	Not applicable for this type of machinery in the scope
4.1.2.6 Control of movements	4.1.2	Not applicable for this type of machinery in the scope
4.1.2.7 Movements of loads during handling	4.1.2	Not applicable for this type of machinery in the scope
4.1.3 Fitness for purpose	4.1.2	Not applicable for this type of machinery in the scope
4.2.1 Control of movements	4.1.2	Not applicable for this type of machinery in the scope
4.2.2 Loading control	4.1.2	Not applicable for this type of machinery in the scope
4.3.3 Lifting machinery	4.1.2	Not applicable for this type of machinery in the scope

The relevant Essential Requirements of Directive 2006/42/EC	Clause(s)/subclause(s) of this EN	Remarks/Notes
4.4.2 Lifting machinery	4.1.2	Not applicable for this type of machinery in the scope
5.5 Fire	4.1.2	Not applicable for this type of machinery in the scope
5.6 Exhaust emissions	4.1.2	Not applicable for this type of machinery in the scope
6.1.1 Mechanical strength	4.1.2	Not applicable for this type of machinery in the scope
6.2 Control devices	4.1.2	Not applicable for this type of machinery in the scope
6.3.1 Risks due to movements of the carrier	4.1.2	Not applicable for this type of machinery in the scope
6.3.2 Risk of persons falling from the carrier	4.1.2	Not applicable for this type of machinery in the scope
6.3.3 Risk due to objects falling on the carrier	4.1.2	Not applicable for this type of machinery in the scope
6.5 Markings	4.1.2	Not applicable for this type of machinery in the scope

WARNING 1 Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

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