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Agricultural Field Equipment Braking — Part 3: Requirements for Self-Propelled and Special Self-Propelled Machines



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Developed with the assistance of the members of the Association of Equipment Manufacturers (AEM), members of the Farm Equipment Manufacturers Association (FEMA) and members of the Agricultural Manufacturers of Canada (AMC). Approved as an ASABE and American National (ANSI) standard March 2020; Revised December 2022.

Keywords: Brake, Definitions, Safety, Test, Tractor, Trailers

1 Purpose

The purpose of this part of ANSI/ASABE S648, when used in conjunction with ANSI/ASABE S648-1, is to establish specific requirements, minimum performance criteria and performance test procedures that are common to self-propelled and special self-propelled agricultural machines.

2 Scope

This part of ANSI/ASABE S648 establishes test procedures and performance requirements for braking of self-propelled machines (SPM) and special self-propelled machines (SSP).

The requirements and minimum performance criteria are directed to operation and parking of agricultural equipment having a maximum design ground speed greater than 6 km/h (3.7 mile/h).

3 Normative References

The following referenced documents are indispensable for the application 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.

ANSI/ASABE S648-1, Agricultural Field Equipment Braking — Part 1: General Requirements

ANSI/ASABE S648-4, Agricultural Field Equipment Braking — Part 4: Requirements for Towed Vehicles

ANSI/ASABE S648-5, Agricultural Field Equipment Braking — Part 5: Requirements for the Interface between Towing Vehicle and Towed Vehicles

4 Terms and Definitions

For the purposes of this document, the terms and definitions found in ANSI/ASABE S648-1 apply.