

ANSI/ASABE S648-5.2 DEC2022

## Agricultural Field Equipment Braking — Part 5: Requirements for the Interface between Towing Vehicle and Towed Vehicles



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# **Agricultural Field Equipment Braking — Part 5: Requirements for the Interface between Towing Vehicle and Towed Vehicles**

*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 November 2021, December 2022.*

**Keywords:** Brake, Definitions, Implements, Safety, Test, Tractor, Trailers, Vehicle

## **1 Purpose**

The purpose of this standard, when used in conjunction with ANSI/ASABE S648-1, is to define the requirements for interfacing towing vehicle service and parking brakes with towed vehicles with a service brake system, a parking brake system or both.

## **2 Scope**

This part of ANSI/ASABE S648 establishes the minimum requirements for interfacing the service brake system and parking brake system on towing agricultural field equipment with the service brake system and parking brake system on towed agricultural field equipment.

The requirements of this part of ANSI/ASABE S648 are applicable to dual line hydraulic and pneumatic systems but does not preclude the use of other equivalent systems.

These requirements and minimum performance criteria are directed to the operation and parking of agricultural field 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

ISO 1708:2003, Road vehicles — Braking connections between motor vehicles and towed vehicles — Interchangeability

ISO 583:1984, Road vehicles — Pressure test connection for compressed-air pneumatic braking equipment

ANSI/ASABE AD5675:2008, Agricultural tractors and machinery — General purpose quick-action hydraulic couplers

ISO 5676:1983, Tractors and machinery for agriculture and forestry — Hydraulic coupling — Braking circuit

ISO 15171-1:1999, Connections for fluid power and general use — Hydraulic couplings for diagnostic purposes — Part 1: Coupling not for connection under pressure