



Designation: F3683 – 24

Standard Terminology Relating to Commercially Installed Basketball Equipment, Volleyball Equipment, Practice Cages and Divider Curtains for Indoor Public Venues¹

This standard is issued under the fixed designation F3683; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This terminology covers definitions related to commercially installed basketball equipment, volleyball equipment, practice cages and gymnasium divider curtains for use in public venues such as gymnasium spaces in schools, health clubs, recreation centers, churches and similar facilities available for use by the general public. Terminology may also be used for home gyms or other private use facilities.

1.2 *Units*—The values stated in inch-pound units are commonly regarded as the standard. The values given in parentheses are typically mathematical conversions to SI units that are provided as additional information.

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.4 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Significance and Use

2.1 This terminology is appropriate for use by gymnasium equipment development professionals, owners and institutions, installers and contractors, specifiers, and other practitioners in matters concerning commercially installed indoor basketball equipment, volleyball equipment, practice cages and divider curtains evaluation, specifications, maintenance, and installation.

3. Terminology

3.1 Definitions:

¹ This terminology is under the jurisdiction of ASTM Committee F08 on Sports Equipment, Playing Surfaces, and Facilities and is the direct responsibility of Subcommittee F08.69 on Commercially-Installed Sports-Specific Equipment for Use in Public Venues.

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backboard, *n*—synonym for basketball backboard; see **basketball backboard**.

backboard edge padding, *n*—cushion on bottom edge and 15 in. (38 cm) up each side of a rectangular-shaped basketball backboard to provide player protection.

DISCUSSION—Required by National Federation of State High School Associations (NFHS), National Collegiate Athletics Association (NCAA), and International Basketball Federation (FIBA) rules.

backstop, *n*—a synonym for basketball backstop; see **basketball backstop**.

backstop hoist, *n*—mechanism to wrap or unwrap cable or belt that causes a basketball backstop mast to fold or lower to playing position.

DISCUSSION—The backstop hoist may be manually or electrically operated.

backstop winch, *n*—synonym for backstop hoist; see **backstop hoist**.

bank, *n*—synonym for basketball backboard; see **basketball backboard**.

basketball backboard, *n*—rigid vertical surface to which the goal attaches and may be rectangular or fan shaped and constructed of glass, fiberglass, wood, steel, aluminum, or other rigid material.

DISCUSSION—Backboard, size, material, and shape are determined by the governing body that sanctions play at a facility.

basketball backstop, *n*—complete system consisting of a rigid structure, basketball backboard, basketball goal, lifting system (if folding), goal height adjustment mechanism (if present) and other accessory items.

DISCUSSION—Basketball backstops are considered permanently installed systems and attached to a building ceiling, floor, or wall, or a combination thereof.

basketball goal, *n*—horizontal circular metal ring through which players try to throw the basketball and may be rigid (stationary) or moveable (breakaway) and will have a method to attach a basketball goal net.

DISCUSSION—Basketball goal size and style is set by the governing body that sanctions play at a facility.

basketball rim, *n*—synonym for basketball goal; see **basketball goal**.

batten, *n*—tube, pipe, or shaft for a gym divider curtain that is intended to help the curtain maintain shape.

DISCUSSION—The batten tube also provides weight to allow for proper curtain operation. Batten is typically enclosed in a pocket or wrapped in divider curtain fabric.

beam clamp, *n*—structural fitting that connects the backstop structure to a building roof support member.

breakaway goal, *n*—basketball goal with a mechanism that allows the goal to hinge or flex or both during play.

DISCUSSION—Breakaway goals reduce stress and strain on other basketball backstop components, especially during slam dunks or when players hang from the rim.

bridge pipe, *n*—synonym for bridge tube; see **bridge tube**.

bridge tube, *n*—support tube in the overhead superstructure that has been reinforced with a truss to allow it to remain rigid over longer spans.

ceiling suspended backstop, *n*—complete basketball system attached to a building ceiling structure.

DISCUSSION—It includes the horizontal and vertical structure and supports, backboard, goal, accessories, and lifting system (if folding). The backstop may be stationary or folding.

ceiling suspended volleyball system, *n*—complete volleyball system consisting of a rigid steel structure, volleyball uprights, volleyball net, safety padding, and referee stand (if required).

DISCUSSION—Ceiling suspended volleyball systems are considered permanently installed systems and attach to a building ceiling structure.

cradle, *n*—part of an overhead superstructure that is generally used to provide a level attachment for the gymnasium equipment apparatus and/or drop the attachment point for a gymnasium equipment apparatus below obstructions such as heating, ventilation, and air conditioning (HVAC) ducts, lights, or anything else that might interfere with installation.

DISCUSSION—It may be full- or half-cradle assemblies depending on the building conditions.

curtain lock, *n*—safety device for drive-tube-operated equipment such as divider curtains, overhead batting/practice cages, or overhead throwing cages.

DISCUSSION—Designed to stop freefall of equipment in the event of mechanical failure by stopping the rotation of the drive tube.

direct goal attachment, *n*—mechanism or method or both of attaching a basketball goal with hardware passing through the basketball backboard to the rigid support structure behind the backboard.

DISCUSSION—This reduces stress on the backboard and decreases the likelihood of breaking a backboard.

divider curtain hoist, *n*—synonym for divider curtain winch; see **divider curtain winch**.

divider curtain winch, *n*—motorized device coupled to a drive tube used to raise or lower a divider curtain, overhead batting/practice cage, overhead throwing cage, and so forth.

drive pipe, *n*—synonym for drive tube; see **drive tube**.

drive tube, *n*—tube connected to divider curtain, overhead batting/practice cages, throwing cages or equipment with similar mechanism that rotates to make vertically lifting device lift or drop.

DISCUSSION—Typically, cable, belt, or fabric is wrapped on the drive tube to make the curtain operate.

face of bank, *n*—distance between the front of the backboard to the wall behind it.

full cradle, *n*—cradle assembly (see **cradle**) that vertically drops all attachment points.

DISCUSSION—Normally used to work around obstructions such as HVAC ducts, lights, or something else that may interfere with installation or system operation.

gym divider curtain, *n*—hanging fabric that separates a gymnasium area.

DISCUSSION—May be operable or stationary; electrically or manually operated; lift vertically or draw horizontally; and made of a combination of solid vinyl and polyvinyl chloride (PVC)-coated mesh, all vinyl, all mesh, a combination of vinyl and netting, or all netting.

half cradle, *n*—cradle assembly (see **cradle**) that vertically drops only a portion of attachment points.

DISCUSSION—Normally used to level attachment points but may also work around obstructions that may interfere with installation or system operation.

height adjuster, *n*—mechanism to allow goal height to be moved from the normal 10 ft (3 m) playing height.

DISCUSSION—May be operated manually with a screw rod mechanism or electrically.

hinge assembly, *n*—mechanical assembly consisting of bracket(s) and hardware used to allow structure and tubing to hinge and rotate.

hinged brace, *n*—synonym for jackknife; see **jackknife**.

jackknife, *n*—brace that is used to secure the backstop in the playing position.

DISCUSSION—The jackknife will typically fold, telescope, or slide to allow the basketball backstop to fold to the stored position.

knuckle, *n*—synonym for jackknife; see **jackknife**.

limit switch, *n*—switch that stops upper and lower travel of electrically operated gymnasium equipment products such as basketball backstops, height adjusters, gym divider curtains, and ceiling suspended volleyball systems.

line shaft, *n*—synonym for drive tube; see **drive tube**.

mast, *n*—vertical drop assembly for a basketball backstop.

DISCUSSION—Mast may be single post or dual post designs and often includes sway braces and a top member. Mast is often the folding portion of a basketball backstop, but a mast may also be non-folding.

overhead batting cage, *n*—ceiling suspended enclosed net and operating system for use to hit baseballs or softballs in an indoor space.

DISCUSSION—Net openings are typically sized at about 1½ in. (12.5 mm) to stop baseballs, softballs, and similar sized objects. Not for use with golf. Typically includes a winch, net, and support frame but may also include a drive tube and cable guides/pulleys.