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.



Designation: F552 – 14 (Reapproved 2023)

Standard Terminology Relating to Chain Link Fencing¹

This standard is issued under the fixed designation F552; 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.

This standard has been approved for use by agencies of the U.S. Department of Defense.

- **aluminized**—*in chain link fabric*, describes fabric woven from steel wire that is coated with aluminum before weaving (see Specification A491²).
- **barb**—as related to barbed wire- a short length of wire, with exposed ends cut on a bias to produce sharp points. See Specifications F1665 and A121.²
- **barbed tape**—strip of metal, machined to produce clusters of sharp points (see Terminology F1379² for further information).
- **barbed wire**—a fabricated wire product consisting of two line wires twisted to form a two-wire strand, into which 2–point or 4–point barbs are tightly wrapped and locked into place at specific intervals. (*Syn.* barbwire). See Specifications F1665 and A121.²
- **barbed wire arm**—a post fitting used to hold barbed wire in place. May be vertical or angled to hold three or more strands of barbed wire, or "V" shaped to hold six or more strands of barbed wire.

barbed wire arm base—a casting of aluminum, malleable iron, or steel, used in combination with one or two barbed wire extension arms held in place by a bolt and nut.

- **barbed wire extension arm**—pressed aluminum or pressed galvanized steel used in combination with barbed wire arm base to hold three strands of barbed wire either vertically or angled in or out from the fence line. Also used in pairs in a "V" configuration to hold 6 strands of barbed wire.
- **bottom protective plate**—a safety device installed on a Type II, Class 1, cantilever slide gate with external rollers to isolate the lower roller mechanism to reduce the possibility

of contact with the roller mechanism by a person. See Specification F1184.²

- **bottom rail**—horizontal member of the framework running continuously along the bottom edge of the fence.
- **boulevard clamp**—a two piece clamp with carriage bolts and nuts designed for 180° horizontal rail connections to a line post (also called *line rail clamp*).
- **brace band**—a symmetrically formed strip of metal shaped to fit around a post and used with a carriage bolt and nut to attach the rail end or brace rail end truss rod tightener to the post (see Fig. 1). Also used for attaching barbed wire, tension wire, and other items to a terminal post.

brace rail—a compression member at terminal posts or corner posts.

- **brace rail end**—a cup-shaped fitting similar to a rail end with provision for attaching a truss rod.
- **cantilever slide gate**—any horizontal slide gate spanning an opening lacking a top or bottom support within that opening (see Specification F1184²).
- **center stop**—a device to receive and hold the drop bar on a double gate.
- **commercdially available**—a manufactured item or product that once produced is held in inventory COS status (commercial off the shelf), ready for delivery once ordered by a consumer or other end user.
- **corner barbed wire arm**—a combination post cap and fitting used to hold barbed wire in place on a corner post. May be angled in or out from the fence line to hold three or more strands of barbed wire, or "V" shaped to hold six or more strands of barbed wire.
- **corner post**—a terminal post, at which the direction of the line of fence changes in two or more directions (see Fig. 2).
- **corner rail clamp**—a two-piece clamp with carriage bolts and nuts designed for horizontal rail connections to a 90° corner post.
- **diamond**—the opening formed by the woven wires in chain link fence fabric.

¹ This terminology is under the jurisdiction of ASTM Committee F14 on Fences and is the direct responsibility of Subcommittee F14.40 on Chain Link Fence and Wire Accessories.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

🕼 F552 – 14 (2023)

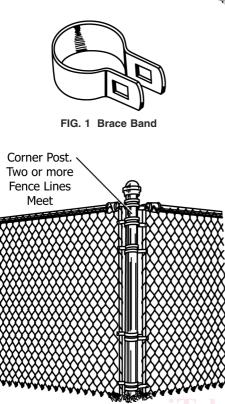


FIG. 2 Corner Post

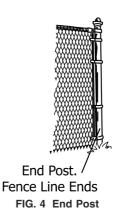
diamond count—the number of diamond openings from one edge of fabric to the other. The count of a given fabric shall begin at the first completed diamond at one edge and continue to the unfinished (half) or full opening at the other edge (see Fig. 3).

double drive gate—a gate comprised of two gate leaves which

- is used to close a gate opening through which vehicles are intended to pass. While often referring to a swing gate (that is, double swing gate), the gate may be any double leaf gate intended for vehicular (that is, slide gate or others). See specifications F654, F900, and F1184.²
- **drop bar**—component of a double gate latch assembly (sometimes called *drop rod*) (see Specification $F900^2$).
- **end post**—the terminal post at the end of a line of fence (see Fig. 4).



FIG. 3 Diamond Count



- end rail clamp—a two-piece clamp with carriage bolt and nut designed for horizontal rail connections to an end post.
- **fabric (chain link fence)**—a fencing material made from wire helically wound and interwoven in such a manner as to provide a continuous mesh without knots or ties except in the form of knuckling or of twisting the ends of the wires to form the selvages of the fabric (see Fig. 5).
- **flange**—in chain link fencing, a plate or casting for securing a post to a floor or a horizontal rail to a wall.

frame hinge—a fitting that attaches to the gate frame and functions with the post hinge.

- **framework**—the basic structure supporting installed fabric, namely the posts, rails, and tension wire.
- galvanized—pertaining to zinc-coated articles.
- **galvanized after weaving**—*in chain link fabric*, describes steel fabric that is hot-dip coated with zinc after weaving $(2 \text{(see Specification A392}^2).$
- galvanized before weaving—in chain link fabric, describes fabric that is woven from steel wire galvanized before weaving.
- **gate**—a moveable barrier placed in a fence opening (gate opening) which allows the opening to be closed. See Specifications F654, F900, and F1184.²
- **gate clip**—a galvanized pressed steel or pressed aluminum fitting designed to secure chain link fabric to the vertical sides of a gate frame.



FIG. 5 Chain Link Fence Fabric

- gate frame—the structural member(s) of the gate.
- **gate holdback or keeper**—a device to receive and hold the gate leaf in an open position.
- gate latch—a fitting to hold the gate in place when closed.
- **gate leaf**—a component of a swing gate which consists of a gate frame covered with chain link fabric and/or other material. See Specifications F654 and F900.²
- gate opening—the clear distance between the gate posts.
- **gate post**—the post to which a gate is attached via hinges. It may also be used as a terminal post.
- **gate transom**—a panel of chain link fabric over the top of a gate opening, framed with top and bottom rail. Typically used in tennis court fence (see Practice F969²).
- **height**—the distance before stretching from one outer edge of a knuckle or twist to the outer edge of the knuckle or twist on the opposite edge of fabric.
- **hinge pin**—an upright pivot used to connect the gate frame hinge to the post hinge, allowing a swing gate to open or close. See **frame hinge** and **post hinge**.
- **hog ring**—a preformed open wire clip designed to close up into a ring to secure chain link fabric to horizontal tension wire (see Specification F626²).
- **intermediate rail**—horizontal member of the framework running continuously at any point between the top and bottom of the fence (sometimes called *middle rail*).
- knuckle—the selvage obtained by interlocking adjacent pairs of wire ends and bending the wire back into a loop (see Fig. 6).
- **line post**—the intermediate post in a fence line supporting the top rail or tension wire and barb arm where applicable (see Fig. 7).
- **line post cap**—a cap or top with a loop used to position the top rail or tension wire on top of the line posts (see Fig. 8).

line rail clamp—See boulevard clamp.

loop cap—See line post cap.

- **marcelling**—a process whereby either a uniform helix or a series of waves put in a wire to facilitate tensioning the wire when installed to support the top or bottom, or both, of the chain link fence fabric (that is, marcelled tension wire). See **tension wire** and Specification A824.
- **mesh**—*in chain link fabric*, the clear distance between parallel wires forming a diamond.



FIG. 6 Knuckle

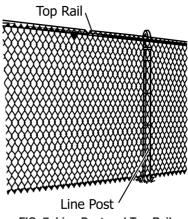


FIG. 7 Line Post and Top Rail



FIG. 8 Line Post Cap

middle rail-See intermediate rail.

- **offset hinge**—a swing gate hinge that permits the gate to swing 180° from the closed to the open position (see Specification F900²).
- **overhead slide gate**—any horizontal slide gate supported only from above (see Specification F1184²).
- **pedestrian gate**—a gate, usually comprised of a single leaf, which is used to close a gate opening through which pedestrians are intended to pass. While often referring to a swing gate, the gate may be of any single leaf gate intended for pedestrian use (that is, slide gate or others). See Specifications F654, F900, and F1184.²
- **panel clamp**—a two-piece clamp with carriage bolt and nut, designed to secure prefabricated panels on free standing enclosures.
- **picket**—a helically formed steel wire interwoven in the manufacture of chain link fabric or used for field splicing rolls of fabric into continuous chain link mesh from terminal post to terminal post.
- **polymer coating**—a term used to describe color coatings such as PVC (poly(vinyl chloride)), polyester, and clear coatings such as polyurethane and acrylic urethane (see Specifications F668, F934, and F1234²).
- **post cap**—a fitting atop a post usually to exclude water from tubular posts.
- **post hinge**—a fitting that attaches to the gate post, the pintle of which fits the frame hinge permitting the gate to swing (see Fig. 9).