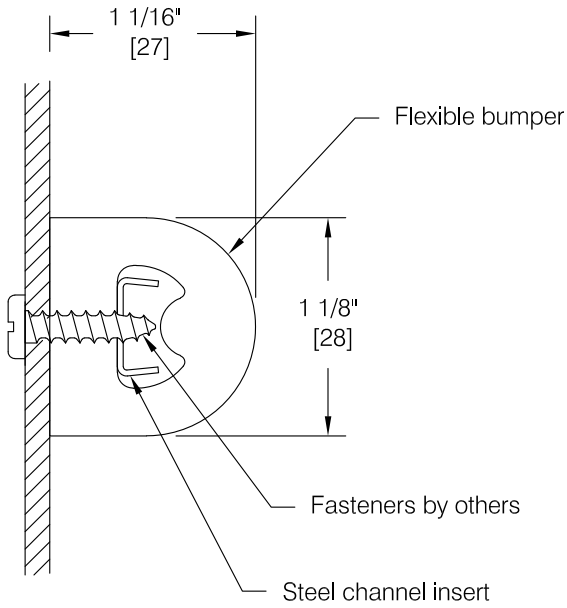
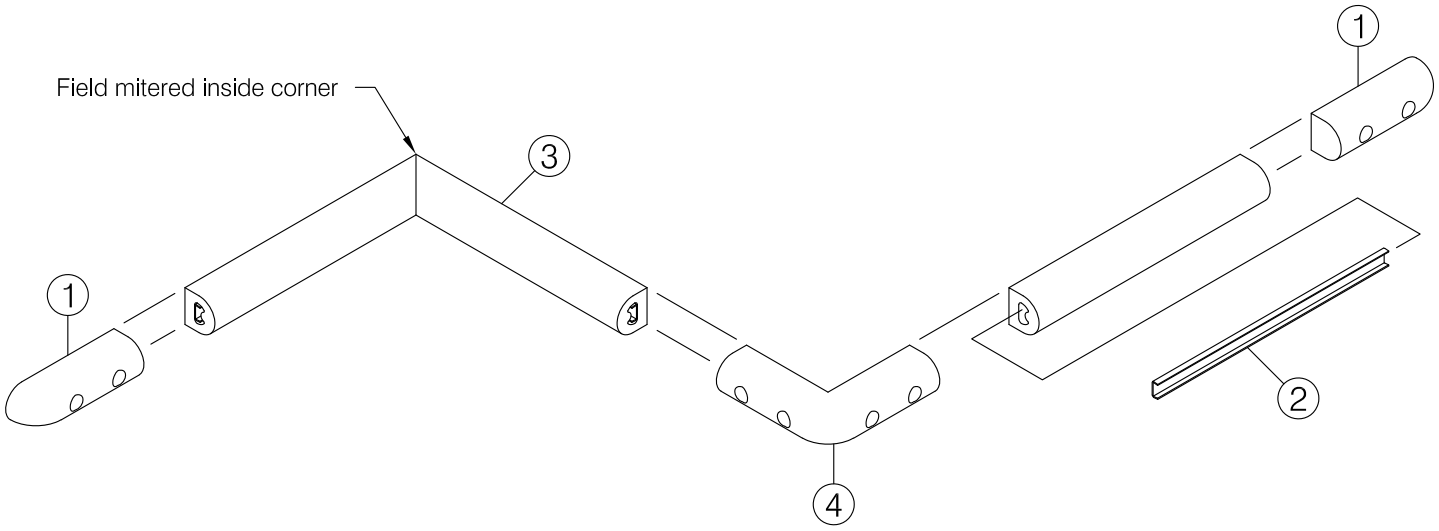
Protector Series 2256



This installation instruction is applicable to:

2256



Component Part Numbers:

1) End cap
2) Steel channel
3) Flexible bumper
4) Outside corner

Step 1: Determine top of bumper guard and snap a chalk line at that height. Snap a second chalk line 9/16” below to mark the centerline of mounting hardware, see **fig 1**.

Important: Store material in a clean dry place where the temperature is maintained between 50°F (10°C) and 100°F (38°C). Walls and rooms should be maintained at a minimum of 65°F (18°C) for at least 48 hours prior to installation. Acclimate materials to normal building conditions for at least 24 hours before cutting and installing.

Step 2: Install molded end caps and outside corners. Refer to **Minimum Layout Configurations** for information on installation limitations. Align the midpoint of the molded accessory with the centerline chalk line provided in **step 1**, see **fig 2**. While holding the accessory firmly in place, mark the center point of mounting holes. A transfer punch is an accurate way to locate the center point of mounting holes, see **fig 3**. Remove molded part and drill holes for mounting hardware as described below. Position molded caps and secure in place with hardware selected. Tighten carefully with a screwdriver. Over tightening may deform part or pull head of fastener beyond counterbore surface.

Important: Molded accessories may be installed with hardware screwed directly into the equipment or with hardware that passes through the equipment for use with a nut and washer. Drill a pilot hole for mounting directly to the equipment, or drill a clearance hole for pass-through mounting. Choose a drill size suitable for the fastener diameter being used.

Suggested hardware :

- #10, 3/16”, or 1/4” diameter pan head.
- Sheet metal screw, wood screw, or similar type fastener for securing directly to equipment.
- Machine screw with nut and washer for passing through equipment.

Note: The body of a 1/4” diameter fastener will be snug in the mounting hole and the head diameter of a 1/4" pan head will be pulled into the slightly smaller diameter counterbore as the fastener is tightened. This fastener diameter provides no tolerance for adjusting final position of the molded cap, accurate location of mounting holes is critical.

Step 3: Measure between molded caps and cut flexible bumper accordingly. A snug fit between molded caps is desirable. Bumper should be mitered to accommodate outside corners that are not 90° and all inside corners. See **Cutting Adjustment Diagrams and Schedule** and **Minimum Layout Configurations** for additional information. All cuts must be square and deburred.
Note: Flexible bumper may be cut with a cut-off saw using a fine tooth carbide tip blade.

Caution: Make sure steel liner is removed from bumper before cutting bumper. Do not cut steel with cut-off saw that is used to cut flexible bumper. Instruction for cutting steel liner is provided in **step 4**.

Step 4: Cut steel liner. Cut length should be slightly shorter than flexible bumper. See **Cutting Adjustment Diagrams and Schedule** for additional information. Pay special attention to cut length at mitered inside corners. Cut steel liner with a portable bandsaw, hacksaw, or cut-off saw with an abrasive blade suitable for cutting steel. Deburr for safe handling.

Important: Plan cutting of steel liner to ensure steel spans butt-joints in flexible bumper, see **fig 4**.

Step 5: Drill pilot holes for mounting hardware along the centerline chalk line placed in **step 1**. Use a #21 (.159”) bit for #10 hardware and space holes a maximum of 16” on center, see **fig 5**.
Note: For standard installation the bumper mounting hardware is installed from behind the mounting surface. The holes drilled in this step will be used in a later step to drill pilot holes in the steel liner while the bumper is held in place.

Step 6: Slide steel liner in bumper as planned, measured, and cut in **step 4**. Position bumper with liner on mounting surface making sure to align top of bumper with upper chalk line placed in **step 1**. With the bumper held in place use the same drill diameter (#21 bit) used in **step 5** to drill through back of bumper and steel liner from behind the mounting surface. Drill through pilot holes provided in **step 5**, see **fig 6**.

Caution: Use a drill stop or similar method to ensure drill cannot pass through bumper. Use caution when holding bumper in place to ensure drill cannot pass through and cause injury to anyone holding bumper.

Step 7: Use a larger drill, #7 (.201”) to enlarge pilot hole in equipment for fastener clearance, see **fig 7**. Install fastener and tighten bumper in place. This will prevent steel from moving inside bumper while additional holes are drilled. Continue in this manner until all fasteners and bumpers are in place.
Note: A #10 diameter sheet metal screw is recommended for use with steel liner pilot holes provided in **step6**. Use of self-drilling hardware is not recommended.

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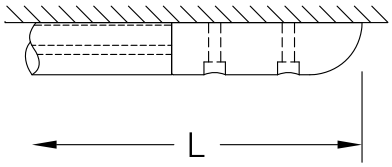
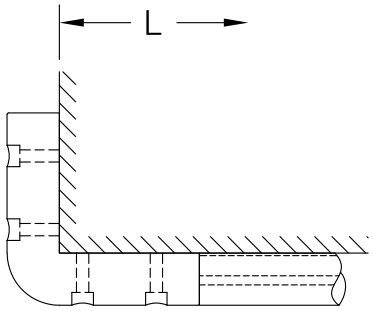
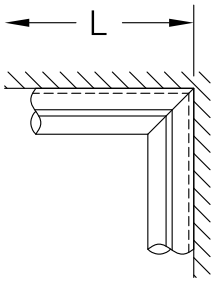
Cutting Adjustment Diagrams and Schedule



End Cap



Outside Corner

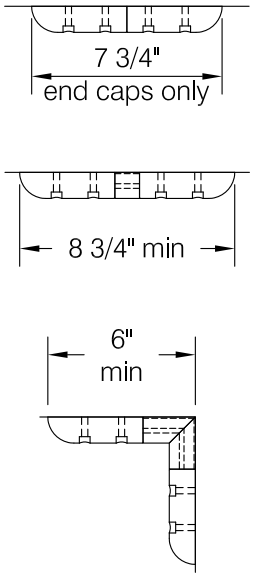


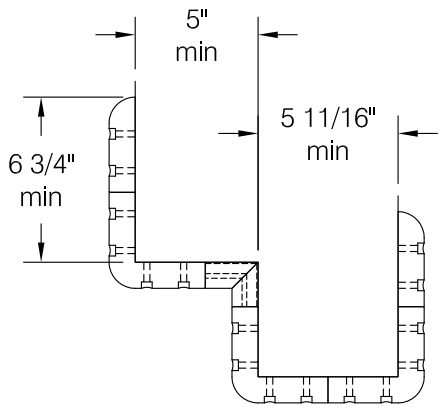
Inside Corner

	Aluminum Retainer	Flexible Bumper
End Cap	L - 3 5/8"	L - 3 7/8"
Outside Corner	L - 3"	L - 2 7/8"
Inside Corner	L - 1/2"	L - 0" (field miter)

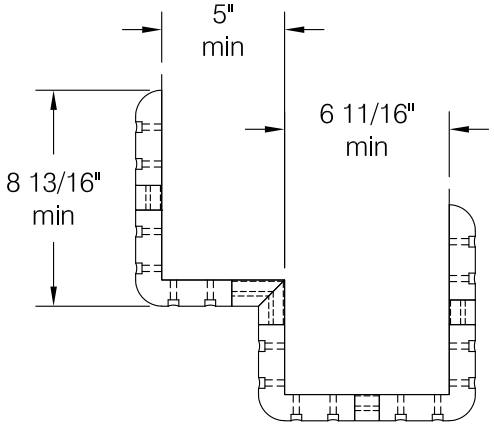
Important: install molded accessories before cutting the flexible bumper.

Minimum Layout Configurations





Configuration with molded caps butting end-to-end at all locations except inside corner



Configuration with minimum length rail between molded caps

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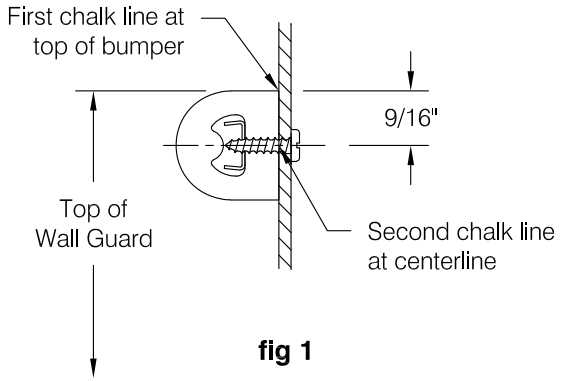

fig 1

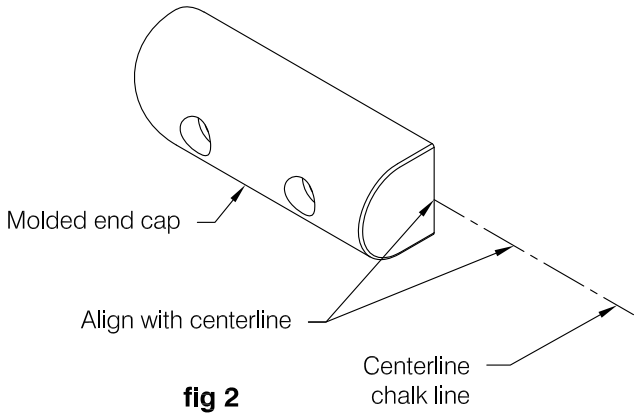

fig 2

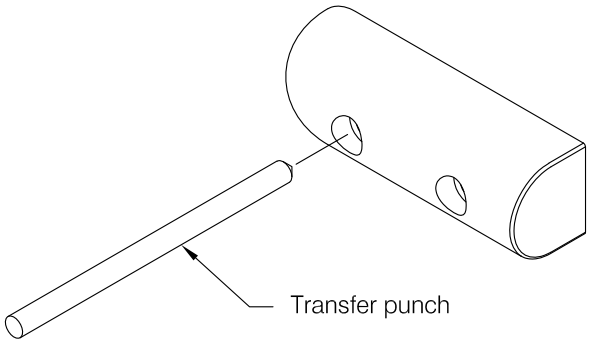

fig 3

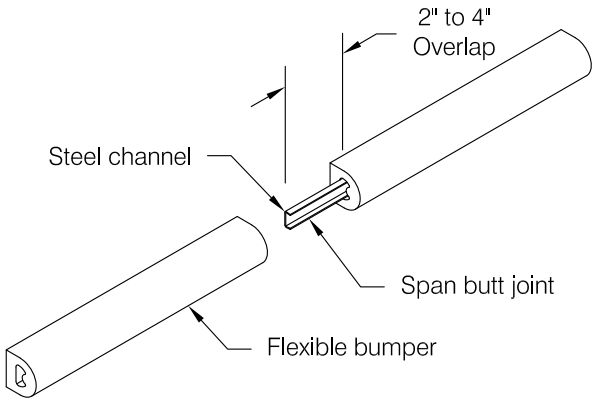

fig 4

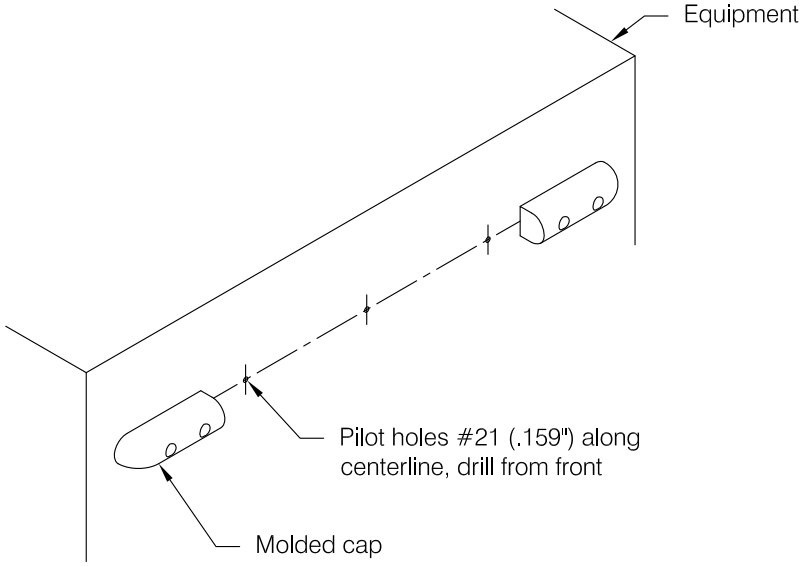

fig 5

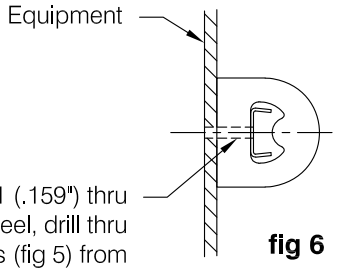

fig 6

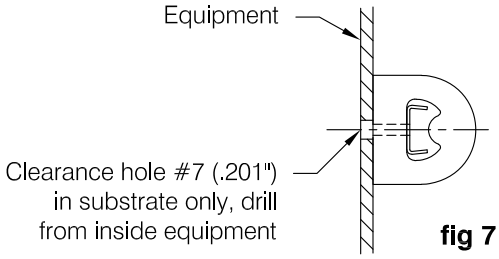

fig 7