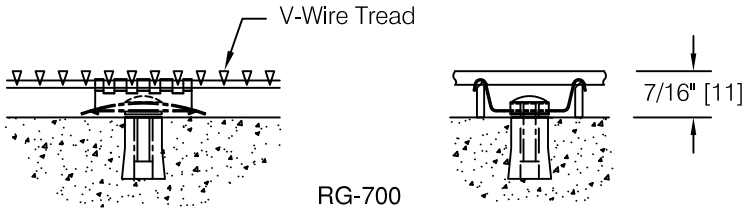
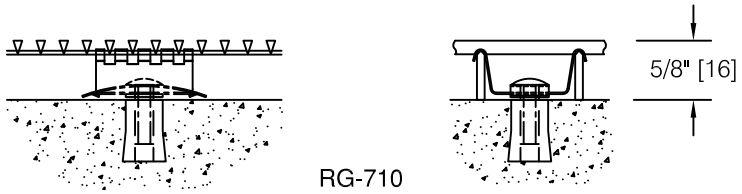
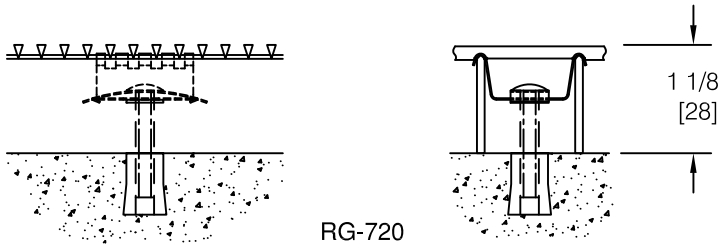
RG-700 Series Hidden Hold-Downs

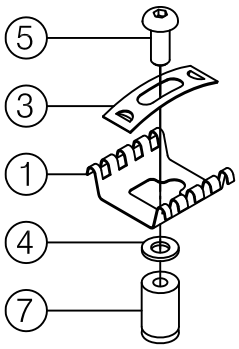




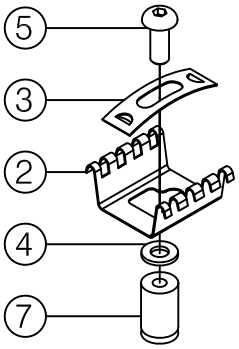


This installation instruction is applicable to hidden hold-downs for:

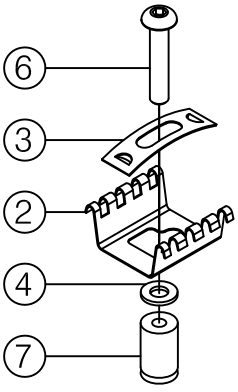
RG-700
RG-710
RG-720



RG-700 Hidden Hold-Down



RG-710 Hidden Hold-Down



RG-720 Hidden Hold-Down

Component Part Numbers:

1) Clip RG-700HD-R2B
2) Clip RG-710HD-R2B
3) Spring RG-710HD-R2S
4) Fiber Washer ABFW-1-0-0
5) Button Head Machine Screw ABMS-146-0-184
6) Button Head Machine Screw ABMS-144-0-184
7) Expansion Anchor ABCK-10-24-1

RG-700 Series Hidden Hold-Down Installation Instructions

Step 1: The RG-700 Series "hidden" hold-downs are the standard method of installation for RG-700, RG-710, and RG-720 stainless steel grilles. The hold-downs prevent shifting of grille panels and minimize the possibility of rattle between grille sections, perimeter framing, and flooring substrate. The cover sheet of this installation instruction provides detailed information pertaining to the hold-downs applicable to each grille. Note that some components are common to more than one hold-down.

Important: This installation instruction is specific to the installation of hidden hold-downs. It does not include installation of perimeter framing or preparation of the recess opening for grille installation. Follow the manufacturer's instructions for installation of these items.

Step 2: Position each grille upside-down with cross-supports facing up. Use protective materials under the grille to prevent damage to the finish of the walking surface. Using factory supplied drawings as a guide, determine the location of hidden hold-downs. Mark cross-supports to show locations in a manner that will not be visible in the finished installation.
Hint: A small piece of painter's masking tape adjacent to the hold-down location may be removed after the hold-down is installed.
Important: Although exact location is not critical and hold-downs are primarily concealed, care should be taken to align clips in a symmetrical and intentional pattern. This provides a consistent appearance in the finished installation to the degree hold-downs are visible from above.

Step 3: Install the clip portion of the hold-down so cut-outs in the clip align with the wires and the "teeth" snap-fit over the cross-supports, see **fig 1**.
Important: The unique design of this system allows the clip to be positioned in place before hardware is installed. This greatly simplifies the installation process allowing the machine screw, spring, and fiber washer to be installed with the clip in place after the substrate is marked for expansion anchors.

Step 4: Position the entire grille in the recess opening with wires up and cross supports down (as they will be when installation is complete). Align sections to maximize the appearance of the installation. When the grilles are in the desired position mark the substrate at each clip location using a small diameter masonry drill that will pass between the wires without significant contact with the wires. Mark the substrate in the center of the rectangular portion of the opening in the clip, see **fig 2**. The clip is designed to align this portion of the opening with a gap between the wires above.
Caution: Do not bend the wires for any reason. Doing so may cause irreparable damage that will void the warranty.

Step 5: Remove the grilles from the recess opening and drill each marked location for an expansion anchor using a 3/8" masonry bit. Mark the drill bit to ensure hole depth is consistent and accurate. Hole depth must match the the length of the expansion anchor so the top of the anchor is flush with the surrounding floor. Thoroughly clean each hole to remove dust and particles from the drilling operation. Place an expansion anchor in each hole.

Step 6: Expand the anchor in place using the setting tool provided, see **fig 3**. Use a firm hammer strike on the on the setting tool to "Set" the anchor in place. This action causes the top of the anchor to drop roughly 3/32" from its pre-set depth.
Note: The expansion anchor consists of a lead sleeve around an internally threaded zinc core. Use of the setting tool expands the lead sleeve, securing it in place.

Step 7: Place a machine screw through the slotted opening in the the hold-down spring, see **fig 4a**. Thread a fiber washer on the machine screw to prevent screw from falling out of the spring. Leave a gap between the spring and washer to allow screw to move upward during the **step 8** installation process, see **fig 4**. Position the grille sections to provide access to the bottom of the previously installed hold-down clip. Slide the spring and machine screw assembly through the opening in the base of the clip, see **fig 5**. The opening in the clip has an elongated extension that provides clearance for the body of the screw allowing the spring to be installed without removing the clip. With the spring in position inside the clip, pull down on the fastener to engage the spring retainers over the edge of the clip, see **fig 6**.

Step 8: Reposition the grilles to align with expansion anchors. Using a 1/8" hex key passed between wires, thread machine screws into the expansion anchors. Tighten firmly with finger pressure only, do not over tighten.

RG-700 Series Hidden Hold-Down Installation Instructions

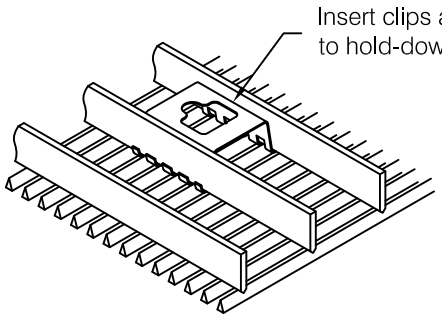


fig 1

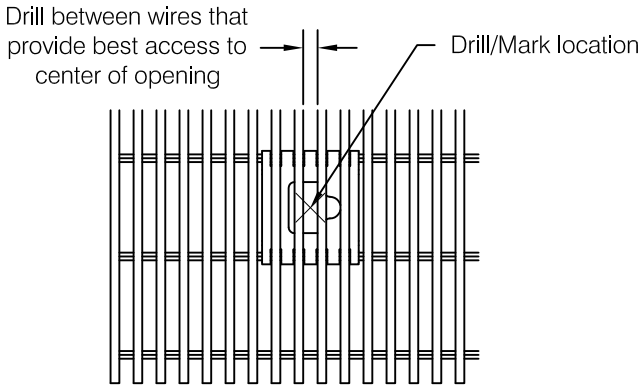


fig 2

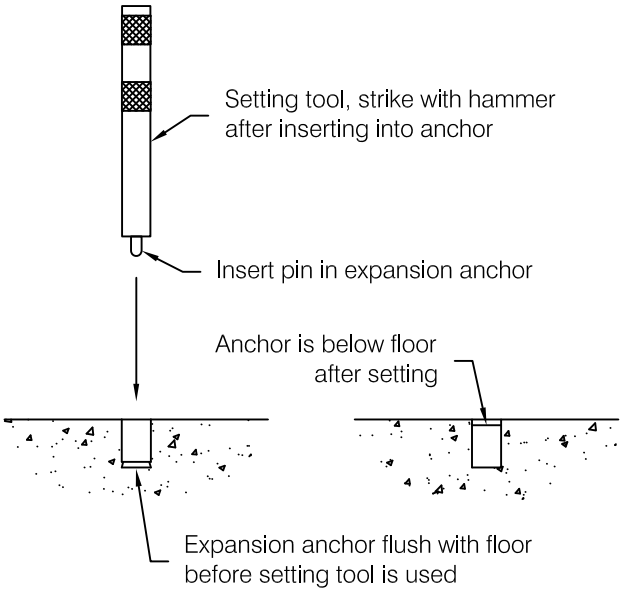


fig 3

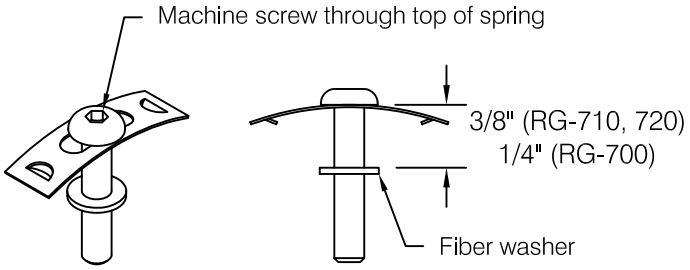


fig 4

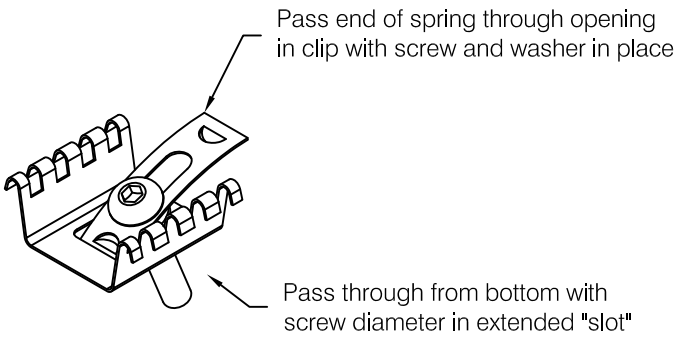


fig 5

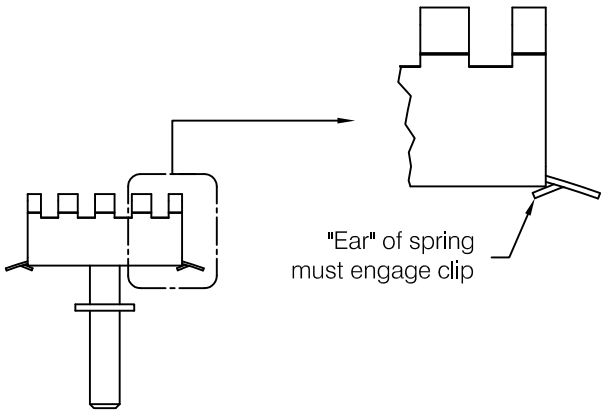


fig 6