Hoistway Obstruction Shield System (HOSS™) Installation Kit

The Hoistway Obstruction Shield System (HOSS) is used to prevent elevator traveling cable from repeatedly striking obstructions in the hoistway and from crossing over into adjoining hoistways. Its use will help avoid possible interference, extend the life span of the installed elevator cables, and assist in meeting NEC Rule 620.43.

Step 1: For BIG-HOSS kits, assemble the upper hitch. Unroll one foot of wire mesh and fold back over four inches of the mesh for strength. Sandwich the fold between two flat brackets. Secure the brackets and mesh with bolts, nuts, and washers in bracket holes A, C and E.

NOTE: Use LIL-HOSS kits to extend length of BIG-HOSS screening. The lower end of LIL-HOSS attaches to the upper end of BIG-HOSS using flat brackets.

Step 2: The upper hitch may be installed either in the hoistway wall or I-beam.

For a wall installation

Drill two holes into the wall, 10 inches apart, between bracket holes A/C and C/E. Center the holes where the HOSS will hang. Place a washer onto the concrete anchor. Use 3/8" x 1-3/4" coupling nuts to secure the anchors into position.

Thread a nut onto the concrete anchor so that it is tight against the coupling nut. Place one washer adjacent to the second nut. See diagram Step 2 Wall for details. Mount the assembled upper hitch onto the wall anchors through upper bracket holes B and D. Secure with a nut and washer.

For an I-beam installation

Drill two holes through the beam, 10 inches apart, between bracket holes A/C and C/E. Place a 3/8" x 3" bolt through each hole from the bottom of the beam. Secure with a nut. See diagram Step 2 I-beam for details. Make sure that the bolt ends do not obstruct traveling cable operation.

Mount the assembled upper hitch onto the bolts through upper bracket holes B and D. Secure each bolt with a nut and washer.

Step 3: Attach the lower hitch. Measure and cut wire mesh so that it comes within 12 to 14 inches from the floor. Fold over four to six inches of the mesh and sandwich the fold between the flat and angle bracket as done in Step 1.

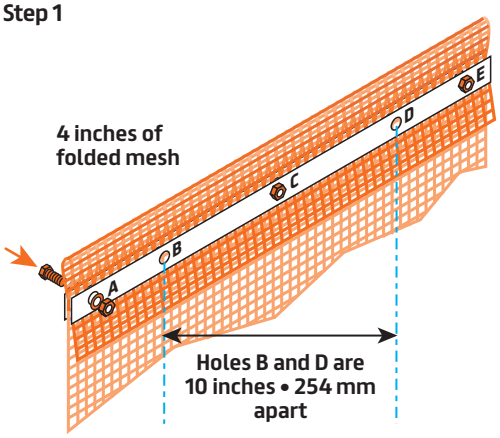
Place a nut on one side of two 3/8" threaded rod and place them in holes B and D. Thread a 3/8" x 1-3/4" coupling nut half way onto the bottom of these rods. Use these rods to locate the drilling locations.

Drill a hole and secure the concrete anchor in it and secure the rod with a nut and washer. Tighten the anchor's coupling nut to join the threaded rod. Repeat this step for the second hole.

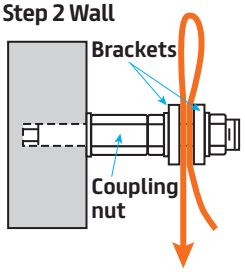
Step 4: Tighten the adjusting nuts on the top of the threaded rod so the wire mesh is taut.

A routine inspection program should be implemented to maximize product safety and performance.

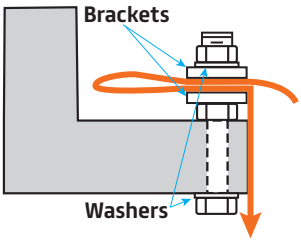
Step 1



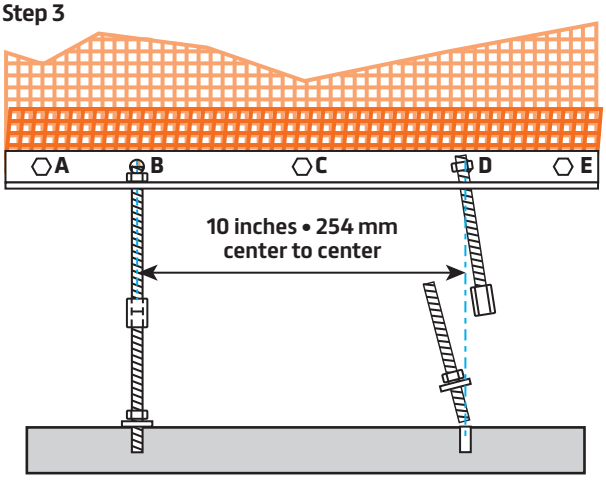
Step 2 Wall



Step 2 I-beam



Step 3



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