



## SPECIFICATIONS

### General Specifications

Furnish and install where shown on all plans/drawings, Sterling Guardian Security Finned Tube Assemblies as described in the Specifications below or approved equal quality and capacity.

### ENCLOSURE AND ACCESSORIES

Finned tube enclosures are to be of style and size as shown on plans. Material will be 14 or 12 gauge cold rolled steel with baked powder coat primer suitable for field painting. Air discharge and inlet perforated openings are to be based on IPA Standard Pattern 113 with 1/8" (.125) diameter holes on 3/16" (.1875) staggered centers. The bottom of the enclosure shall return to the wall and have a one inch vertical flange with pre-punched holes on 12" centers for fasteners (by others) to attach the enclosure to the wall. The full wrap-around design allows complete engagement at the wall so that unauthorized material cannot be inserted inside the enclosure. 14 gauge underlapping joiner strip applied at right hand end on partial perforated enclosures. All bends (lateral) on enclosure are to be formed on bottoming dies to ensure continuity of all adjoining enclosures and accessories. Accessories will be die-formed 14 gauge, cold rolled steel with a baked prime finish suitable for field painting. Overlapping accessories will provide for make-up required in runs where partitions and/or walls may vary from bay to bay. Accessories shall fit between wall and back plate at top and extend back to wall at bottom for securing with fastener by others.

### BACK PLATE

All partial height or full height back plates (as specified) will be one piece construction, made from 14 or 12 gauge C.R.S. and will have a powder coat prime painted finish. Self-adhesive sponge air seal gasket to be provided when specified (loose or factory installed).

### ELEMENT SUPPORT HANGERS

All hangers are to be die-formed 14 gauge galvanized steel with channel type wiped edge construction for rigidity. Nickel chromium plated ball bearings inserted into a nylon isolator insert are to be used in conjunction with an 18 gauge galvanized die-formed element support cradle to provide friction free lateral movement during expansion and contraction.

### ACCESS DOORS

Access Doors are only recommended when located in a controlled access area. Access doors will be 6" x 9" (or 5" x 6") and are secured with two tamper resistant fasteners located at the top and bottom of the door. The fasteners shall require a special tool for opening (factory supplied).

### DAMPERS

NOT AVAILABLE

## HEATING ELEMENTS

All copper/aluminum heating elements shall be manufactured with seamless copper tubing mechanically expanded into the diameter of the equally spaced aluminum fins. The ends of the copper tube shall be of finished O.D. (male) and finished I.D. (female, swaged) as to allow the use of standard domestic copper fittings. All steel heating elements shall be manufactured with steel pressure tubing mechanically expanded into the diameter of the equally spaced steel (.024, .032) fins. The ends of the steel tube shall be threaded to accept all domestic NPT threaded fittings or cut square and chamfered for welding in field. All steel element fins shall be painted black enamel finish.

### ENCLOSURES "GUARDIAN" Security Style.

<b>Styles:</b>	Slope Top – Flat Top Partial Perforated or Fully Perforated Outlet.
<b>Lengths:</b>	2' thru 8' in 6" increments.
<b>Materials:</b>	Cold rolled steel or optional stainless steel
<b>Gauges:</b>	14 or 12 Gauge C.R.S., 14 or 12 Gauge SS (Consult factory for SS).
<b>Finish:</b>	Baked powder primer standard, baked powder enamel optional. All electrostatic applied.
<b>Back Plates:</b>	
<b>Types:</b>	Partial height or full height optional.
<b>Lengths:</b>	Partial 8', Full 2' thru 8', in 6" increments.
<b>Material:</b>	Partial height or optional Full height in 14 gauge C.R.S. or 12 gauge C.R.S. baked powder coat prime finish.
<b>Hangers:</b>	14 gauge, die-formed channel type galvanized steel construction.
<b>Elements:</b>	Mechanically expanded.
<b>Types:</b>	Copper tube with aluminum fins, Steel tube with steel fins.
<b>Lengths:</b>	3/4" Cu tube = 2'-0" thru 8'-0" 1", 1-1/4" Cu tube = 2'-0" thru 12'-6" 1", 1-1/4" & 2" Steel pipe = 2'-0" thru 12'-0" All are available in 1" increments. RØ1 thru RØ5 = 2' thru 8' in 1'-0" increments.
<b>Tube ends:</b>	CU/AL - swaged (flared) one end. Swaged (flared) both ends optional. Steel Pipe - NPT threads standard. Chamfered ends for field welding optional.
<b>Dampers:</b>	Not Available
<b>Accessories:</b>	Overlapping type, die-formed with bottom return bend with pre-punched mounting holes for securing to wall after overlapping the enclosure.
<b>Air Seal:</b>	Optional air seal, factory or field installed, on back of back plate (as specified). Material is 1/8" x 3/8" closed cell with adhesive back.