



INSTALLATION INSTRUCTIONS MODELS: 241FRD, 243FRD, 505RD, 507RD, 509RD

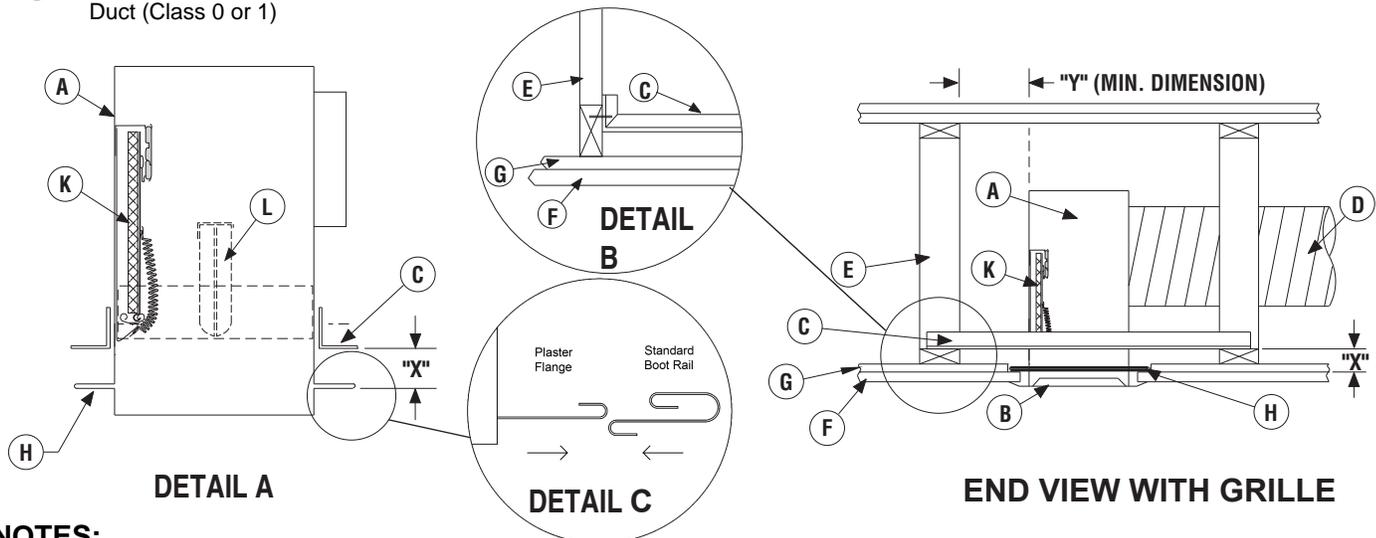
ETL CLASSIFIED UL263/E119 * INCORPORATES ETL CLASSIFIED UL555C DAMPER FOR USE IN WOOD TRUSS ASSEMBLIES-FLOOR/CEILING OR ROOF/CEILING UL DESIGN NO: L521, L528, L546, L550, L558, L562, L563, L570, L574, L579, L585, L586, M503, P522, P531, P533, P538, P545, P547, P548, or P552.



Intertek

- (A) Steel Register box (boot), Max. 24 GA insulated.
- (B) Steel frame Grille / Register, 26 GA minimum, see note 6
- (C) STD boot rails (see page 2) or 1-1/2" x 1-1/2" 22 GA Support Angle (2 sides), see notes 2 & 3
- (D) Flex Duct ETL/UL Classified Air Duct (Class 0 or 1)
- (E) Wood Truss (refer to specific UL Design No.)
- (F) 5/8" Gypsum Wallboard (refer to specific UL Design No.)
- (G) RC Channel
- (H) Plaster Flange
- (K) Ceiling Damper (1 blade)
- (L) Alternate Ceiling Damper (2 blades)

Model	"Y"
241FRD	2"
243FRD	2"
505RD	2"
507RD	2"
509	2"



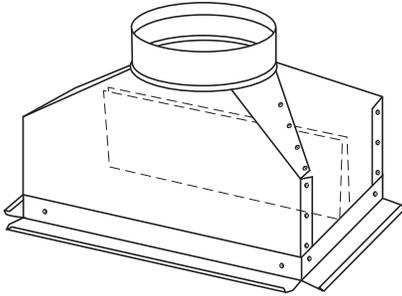
NOTES:

- Before installing, open damper blades and install link between spring loaded wire clips. Do not bend or deform clips after assembly. If dampers are provided with link tabs instead of wire clips, install link and bend tabs to secure link in position.
- Attach 26 GA boot rails or 1-1/2" x 1-1/2" x 22 GA support angles to steel register box with a minimum of two #8 screws or 3/16" (5) diameter steel pop rivets or spot welds each side. Distance from bottom of angle to bottom of plaster flange (X) should be the combined thickness of the wood truss member and the RC channel (See Detail A). STD Boot Rail attached #8 Screws. **When Std. Boot rail is used, flange of boot is to be snapped in boot rail. No additional screws are required. Make sure fasteners do not interfere with damper operation.**
- Install assembly between trusses as shown in End View and attach support angles to truss lower members using minimum 1" long type S steel screws or similar. See Detail B for alternate support angle attachment method.
- Ceiling penetrations should be located between adjacent trusses and RC channels. If required, a maximum of one RC channel may be cut or notched to enable proper damper location. The clearance between the damper assembly and the cutout in the ceiling material shall be a maximum of 1/8" on any side.
- Flex duct shall be Classified Air Duct Class 0 or Class 1 and shall be attached to the plenum collar with steel clamps, plastic straps, or minimum 18 gauge steel wire.
- The grille/register frame shall be 26 gauge minimum steel and shall be attached with a minimum of two #8 x 1 1/4" min. screws through the ceiling material and into the plaster flange.
- Refer to UL Fire Resistance Directory for details on UL Floor/Ceiling Design Nos. L521, L528, L546, L550, L558, L562, L563, L570, L574, L579, L585, L586, M503 and UL Roof/Ceiling Design Nos. P522, P531, P533, P538, P545, P547, P548, and P522. 1 Hour Fire Rating.

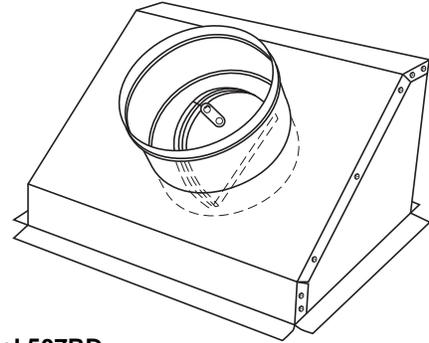
Dimensions are in inches

MODELS: 241FRD, 243FRD, 505RD, 507RD AND 509

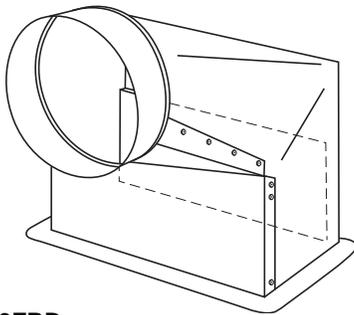
MODELS:



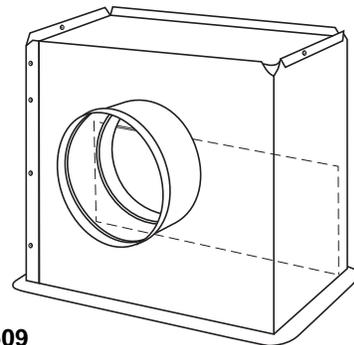
Model 241FRD
Top Inlet. Tapered Register Box
Rectangular ceiling damper.



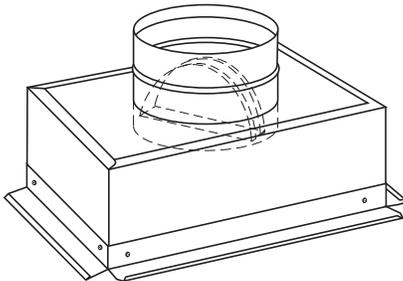
Model 507RD
45° Inlet. Insulated Register Box
Round ceiling damper in inlet collar.
Max 10" dia. inlet.



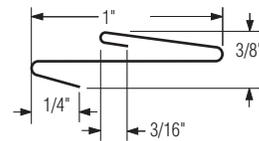
Model 243FRD
90° Side Inlet. Tapered Register
Box Rectangular ceiling damper.



Model 509
90° Side Inlet. Insulated Register
Box Rectangular ceiling damper.



Model 505RD
Top Inlet. Insulated Register Box
Round ceiling damper in inlet collar.
Max 10" dia. inlet.



Standard Boot Rail

Alternate installation using standard boot rail.
Model 505RD, 507RD, 243FRD, 241FRD, 509 only.
Damper may be installed using standard boot rail.
Rails to be installed on opposite sides of boot and attached to the bottom cord of the truss using 16D nails or screws a minimum of 1" long.

NOTES:

1. Models 241FRD, 243FRD and 509 incorporate a rectangular ceiling damper recessed a maximum of 2 1/2" from the plaster flange.
2. Models 505RD and 507RD incorporate a round ceiling damper recessed in the inlet collar.
3. Internally insulated models 505RD, 507RD and 509 use R6 1 1/2" and R8 2" duct liner.



Temple, GA
Tel: 678-563-0003
Fax: 678-563-0093

Dimensions are in inches