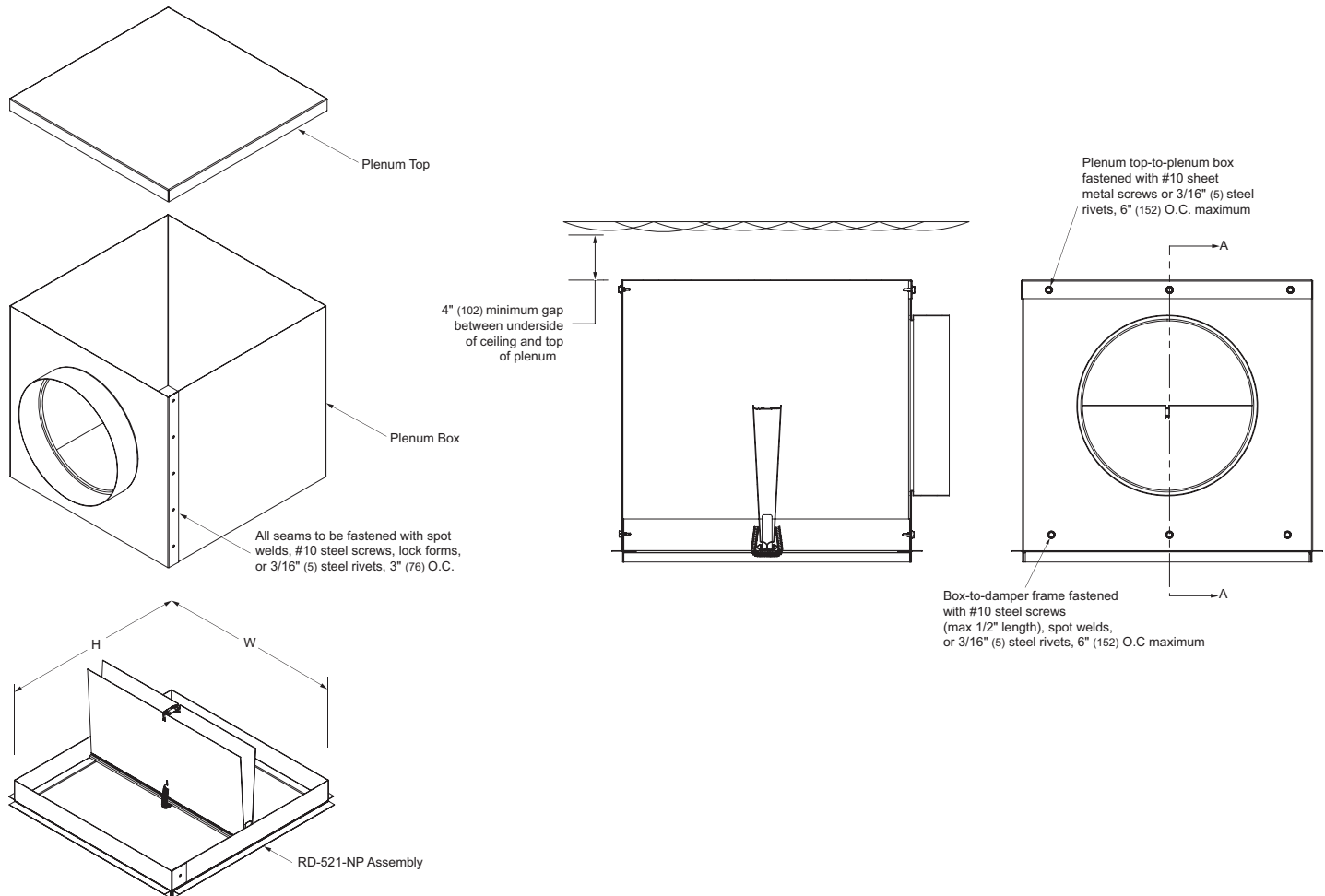




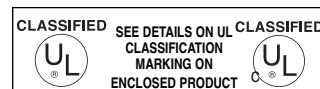
ceiling radiation damper with steel plenum

supplemental installation instructions

The following installation details apply to model **RD-521-NP**



- A. Construct the steel plenum box utilizing the instructions above. RD-521-NP square box size limited to 16" I.D. (406) wide x 16" I.D. (406) deep. Height limited to a minimum 4" (102) gap between top of plenum box and lowest point of underside of finished ceiling. Box to be constructed from minimum 20 ga galvanized steel.
- B. For field installation of steel plenum box, damper blades must close a maximum of 1/8" (3) above the top of the gypsum wallboard.
- C. Install plenum top to plenum box with No. 10 steel screws, lock forms, spot welds, or 3/16" (5) steel rivets at 6" (152) O.C.
- D. Install the plenum box so that it fits tightly around the damper sleeve. No gaps are allowed between the plenum box and the damper sleeve. Secure the plenum box to the damper using No. 10 steel screws, lock forms, spot welds, 3/16" (5) steel rivets, or UL 181 rated aluminum tape.
- E. The plenum box must fit flush with the steel plaster flanges. Gaps between the flanges and the plenum are not allowed.
- F. All box seams to be secured with spot welds, No. 10 steel screws, lock forms, or 3/16" (5) steel rivets, 3" (76) O.C.
- G. Duct collar to be constructed of minimum 26 ga galvanized steel. The duct collar hole when mounted on the side panels of the plenum box must maintain proper clearance on the top of the damper and must not interfere with the dampers operation. Trim the collar where needed. Openings may be placed on all sides and top of the plenum box. Number of openings is unlimited. In lieu of duct collar, duct can be connected directly to the top of the damper sleeve.
- H. Refer to the RD-521-NP Installation Instructions for boot rail installation details.
- I. Before installing the plenum box, test that the damper operates as intended. The plenum box, duct collars and fasteners must not interfere with the damper operation in any way.
- Note: Install Ceiling Radiation Damper/Plenum Box assemblies according to C&S Air Products installation instructions for the damper type being installed. Refer to UL Fire Resistance Directory for details on floor/ceiling and roof/ceiling designs.



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