

Rossi Damper Hardware

Guide Spec – “Contractor’s Option”

Note to Specifying Engineer:

The below paragraphs can be inserted into any Ductwork Accessory Damper and Damper Hardware specification. A “Contractors Option” type of guide spec allows the engineer to let the contractor look at Rossi Damper hardware as an option (as an acceptable voluntary alternate bid). Rossi Damper hardware will likely meet the intent of the contract document specifications as all Rossi damper hardware products are suitable for most any HVAC applications. Please visit <http://www.RossiHardware.com> to see “Who’s Using Rossi.”

“EVERLOCK” self locking Damper handle (or self locking Quadrant handle)

Note to Contractor: *The Everlock (patent pending) is the first self locking damper (quadrant) handle on the market. It is designed for use with both 1.5" and 2" standoff applications. The Everlock was created to replace the friction locks on the market with a more reliable positive (absolute) lock. Friction locks (e.g. wing nuts & other bolts) can often vibrate loose over time, causing unwanted variations in the position of the damper handle and the regulation of air flow. The Everlock uses a positive lock mechanism which guards against this. The Everlock is fully hand-operational so that there are no tools needed for adjusting or readjusting the damper blade position on site. A balancing engineer simply presses the thumb trigger and slides the handle into the desired position. Releasing the thumb trigger causes the spring activated lock to click into place. The Everlock makes sure that a balanced air flow system stays balanced for good. And the attractive design of this handle is great for all exposed systems. Please visit <http://www.RossiHardware.com> for videos on products, “90 Second Assembly” instructions and more.*

Bracket: Cold Rolled Steel (ASTM A-1008), 18 gauge nominal thickness of 0.0478 with tolerance range of 0.0438 to 0.0518. Single cut and formed bracket for use with 1.5" or 2.0" insulation wrapping or any other such stand-off applications. Completed with a white Chromate plating process which provides durable corrosion resistance. Auto Planting ASTM B-633 Type II (white) class FE/ZN8 or SC2 Thickness of 0.0003.

Handle and Thumb Trigger: Polyamide 66 (PA66), Flame Retardant, Glass Reinforced, “Zytel,” the engineering polymer by Dupont. PA66 is the material outlined for use in all Non-Metallic Components as specified in the UL 1995 Standards Code for Heating & Cooling (CSA-C22.2 No. 238 UL 1995) with the required flammability rating of 5VA.

Compression Spring: Stainless Steel Type 302-OD 0.25 wire 0.026 free length of 7/8" (0.875")

Retaining Ring: Ext. Self-Lock TX-75ST-ZF Carbon Steel SAE 1074 with Zink Bright Plating. C-Scale Rockwell Hardness 47 to 51.

TwistKnob Damper Handle (Flat) (or Flat Quadrant Handle)

Note to Contractor: *Usually, during air flow balancing, a tool is needed to unlock, adjust and re-lock the quadrant handle into position. But not with Rossi damper handles. The Rossi TwistKnob hand allows for fully hand operational air flow balancing to be done on site without the need for any tools. The TwistKnob flat handle includes a built-in bearing for insertion into fittings or duct, further cutting down assembly time. The attractive design of this handle is great for all exposed systems. The securing knob is made from a specially designed engineering polymer with an increased surface*

area resulting in the strongest friction lock on the market. The bright orange knobs make the damper handles easy to spot on site. Please visit <http://www.RossiHardware.com> for videos on products, "90 Second Assembly" instructions and more.

Handle, Bearing & Securing Knob: Dual function one piece handle & bearing as well as the securing knob are all made of Polyamide 66 (PA66), Flame Retardant, Glass Reinforced, "Zytel," the engineering polymer by Dupont. PA66 is the material outlined for use in all Non-Metallic Components as specified in the UL 1995 Standards Code for Heating & Cooling (CSA-C22.2 No. 238 UL 1995) with the required flammability rating of 5VA.

Twistknob Damper Handle (1.5" or 2" Standoff) (or Standoff Quadrant Handle)

Note to Contractor: Usually, during air flow balancing, a tool is needed to unlock, adjust and re-lock the quadrant handle into position. That was until Rossi introduced the TwistKnob handle. This handle allows for fully hand operational air flow balancing to be done on site without the need for any tools. The knob is made from a specially designed engineering polymer with an increased surface area resulting in the strongest friction lock on the market. The bright orange knobs make the damper handles easy to spot on site. The TwistKnob hand is available in 1.5", 2" or for virtually all standoff applications. Please visit <http://www.RossiHardware.com> for videos on products, "90 Second Assembly" instructions and more.

Handle, Bearing & Securing Knob: Dual function one piece handle & bearing as well as the securing knob are all made of Polyamide 66 (PA66), Flame Retardant, Glass Reinforced, "Zytel," the engineering polymer by Dupont. PA66 is the material outlined for use in all Non-Metallic Components as specified in the UL 1995 Standards Code for Heating & Cooling (CSA-C22.2 No. 238 UL 1995) with the required flammability rating of 5VA.

Bracket: 18 gauge prime galvanized steel ASTM A527 LFG G90

Damper Blades (or Discs) & Bars

Note to Contractor: Sheet Metal Duct Manufacturers often cut discs out of metal and go through a time consuming process simply to attach the disc to a bar. This involves drilling holes and using u bolts. That was until Rossi introduced the first discs with a built in channel for the bar to pass through. This saves significant manufacturing time and labor. And Rossi discs (or blades) are the only ones designed to be stackable. One hundred and fifty Rossi damper discs stacked together come to less than 10" high, significantly reducing inventory space. Please visit <http://www.RossiHardware.com> for videos of the discs stacking, "90 Second Assembly" instructions and more.

Blades: (4" to 16" diameter) Single blade (or disc). ASTM-A527 LFO G90, 22 gauge reinforced to equal the strength of 20 gauge material. 3/8" full length bar fits through formed channel in center of damper blade.

Bars: 3/8" square Aluminum bar

Bearings

Note to Contractor: Rossi bearings are designed to save time in assembly and reduce the leakage area nearly to zero. Rossi Snap-In Bearings click into a 3/4" hole and lock into place. These come in regular size or long form for use with fittings insulated on the inside. For higher pressure jobs, Rossi's Clip-On Bearings add the use of an e-clip on the inside of the duct to further secure the bearing into place. All Rossi bearings reduce the usual leakage area nearly to zero. Please visit <http://www.RossiHardware.com> for videos on products, "90 Second Assembly" instructions and more.

Bearings: All Rossi Bearings are made of Polyamide 66 (PA66), Flame Retardant, Glass Reinforced, "Zytel," the engineering polymer by Dupont. PA66 is the material outlined for use in all Non-Metallic Components as specified in the UL 1995 Standards Code for Heating & Cooling (CSA-C22.2 No. 238 UL 1995) with the required flammability rating of 5VA.