ROSSI
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HVAC HARDWARE

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Rossi Damper Hardware

Guide Spec

Note to Specifying Engineer:

The below paragraphs can be inserted into any Ductwork Accessory Damper and Damper Hardware specification. This Guide Spec is for use when Rossi HVAC Hardware products are used as the basis-of-design for ductwork accessories and damper hardware.

"EVERLOCK" self locking Damper handle (or self locking Quadrant handle)

Basis Of Design: *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 0f 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. Finished 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)

Basis of Design: *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 handle 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: 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)

Basis of Design: *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: 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: Cold Rolled Steel (ASTM A-1008), 18 gauge nominal thickness 0f 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. Finished with a white Chromate plating process which provides durable corrosion resistance.

Damper Blades (or Discs) & Bars

Basis of Design: *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, 2 2 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

Basis of Design: *Rossi bearings are designed to save time in assembly and reduce the leakage area nearly to zero. Rossi Snap-In Bearings click into a ¾" 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: 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.