



## Report of Materials and Equipment Acceptance Division

NYC Department of Buildings  
280 Broadway, New York, NY 10007  
Patricia Lancaster, FAIA, Commissioner  
(212) 566-5000, TTY: (212) 566-4769

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use subject to the terms and conditions contained herein.

### MEA 372-07-M

**Manufacturer:** Perfect Air Control, Inc., 896 Rutherford Road,  
Marion, NC 28752

**Trade Name(s):** Prefco

**Product:** Fire & smoke and combination fire & smoke dampers.

**Pertinent Code Section(s):** 27-327, 27-343, 27-771 through 27-779, RS 13

**Prescribed Test(s):** RS 13 (Fire Endurance – UL 555; Leakage – UL 555S)

**Laboratory:** Underwriters Laboratories, Inc.

**Test Report(s):** UL File R6189, Vol. 1, Section 3 and Vol. 5, Section 3.

**Description:** The Prefco 5000 Series of Fire and Combination Fire and Smoke Dampers and Prefco's 5100 series of Smoke dampers are multi-blade style, galvanized steel dampers evaluated in accordance with the details of UL555 and or UL555S. They are intended for use in static or dynamic, ducted and non-ducted systems in order to maintain the fire and or leakage rating of a rated barrier. For leakage rated products, they are available with a variety of approved electric actuators that are intended for use as part of a buildings smoke control system. These approved actuators include the Honeywell ML and MS series of fire-smoke damper actuators and the Belimo FS series of fire-smoke damper actuators, all available in 24 VAC, 120VAC or 230VAC. All actuators are provided factory mounted as per the requirements of UL555S. Dampers are available with standard rectangular finish, or with oval or round transitions. The blades are linked together and operated from full open to full closed position be either rotating the extended shaft 90° or by directly lifting the right or left blade brackets in the model 5000 and 5003. For fire rated products, the blades will be locked shut by either a stainless steel or bi-metal locking clip or the knee-lock action of the jackshaft operating mechanism. All fire dampers are provided with a listed heat responsive device (fusible link, electro-thermal link or resettable bimetal (McCabe) link.) or, in the case of the 5050 series, a model series 36TXE16 Thermodisc, resettable thermal switch.

The dampers can be mounted vertically or horizontally, in accordance with their UL listings. Dampers exceeding the maximum single section size of any model will be provided in multiple sections up to the UL maximum allowed assembly sizes. Multiple sections, actuated products will be coupled and or wired to assure simultaneous operation of the entire assembly. The models size limitations and UL555 & UL555S ratings are as follows:

### Fire Dampers for Use in Static Systems (UL555)

Model	Hr. Class	Damper Mounting Position	Single Damper Section Size (Inc.)		Multiple Damper Section Size (Inc.)	
			W	H	W	H
5000, 5010, 5015, 5020, 5020-1	1-1/2	V	36	45	72	45
					120	84
		H	26	42	52	42
			36	45	144	90
5003, 5013, 5023, 5023-1	3	V	30	30	---	---
5050	1-1/2	V	36	45	120	84
		H	36	45	144	90
		H	26	42	52	42
5053	3	V	30	30	---	---
5050G	1-1/2	V	36	36	---	---

### Fire Dampers for Use in Dynamic Systems (UL555)

Model	Hr. Class	Damper Mounting Position	Single Damper Section Size (Inc.)		Multiple Damper Section Size (Inc.)	
			W	H	W	H
5000	1-1/2	V	36	45	72	45
					36	84
5000	1-1/2	H	36	45	72	45
					36	90
5010, 5015, 5020, 5020-1	1-1/2	V	36	45	---	---
		H	36	45	---	---
5003, 5013, 5023, 5023-1	3	V	30	30	---	---
5050	1-1/2	V	36	45	120	84
		H	36	45	144	90
		H	26	42	52	42
5053	3	V	30	30	---	---
5050G	1-1/2	V	36	36	---	---

### Smoke Dampers (UL 555S)

Model	Leakage Class	Damper Mounting Position	Single Damper Section Size (Inc.)				Multiple Damper Section Size (Inc.)	
			W		H		W	H
			Min.	Max.	Min.	Max.		
5150-1	I-350	V, H	14	36	6	48	144	96
							288	48
	I-250	V, H	10	36	6	48	144	96
							288	48
	I-350	V, H	6	24	6	24	96	48
							288	24
5150-2	II-350	V, H	6	36	6	48	144	96
							288	48
5150-3	III-350	V, H	6	36	6	48	144	96
							288	48

### Combination Fire and Smoke Dampers (UL 555 & UL 555S)

Model	Hr. Class	Leakage Class	Damper Mounting Position	Single Damper Section Size (Inc.)				Multiple Damper Section Size (Inc.)	
				W		H		W	H
				Min.	Max.	Min.	Max.		
5050-1	1-1/2	I-350	V	14	36	6	45	120	84
			H	14	36	6	45	144	90
			H	14	26	6	42	52	42
5053-1	3	I-350	V	14	30	6	30	--	---
5050-1	1-1/2	I-250	V	10	36	6	45	120	84
			H	10	36	6	45	144	90
			H	10	26	6	42	52	42
5053-1	3	I-250	V	10	30	6	30	---	---
5050-1	1-1/2	I-350	V	6	24	6	24	96	24
			H	6	24	6	24	96	24

### Combination Fire and Smoke Dampers (UL 555 & UL 555S)

Model	Hr. Class	Leakage Class	Damper Mounting Position	Single Damper Section Size (Inc.)				Multiple Damper Section Size (Inc.)	
				W		H		W	H
				Min.	Max.	Min.	Max.		
5053-1	3	I-350	V	6	24	6	24	--	--
5050-2	1-1/2	II-350	V	6	36	6	45	120	84
			H	6	26	6	42	52	42
				6	36	6	45	144	90
5053-2	3	II-350	V	6	30	6	30	--	---
5050-3	1-1/2	III-350	V	6	36	6	45	120	84
			H	6	36	6	45	144	90
			H	6	26	6	42	52	42
5053-3	3	III-350	V	6	30	6	30	---	---
5050G(-1)	1-1/2	I-350	V	14	36	6	36	--	--
	1-1/2	I-250	V	10	36	6	36	--	--
	1-1/2	I-350	V	6	24	6	24	--	--
5050G(-2)	1-1/2	II-350	V	6	36	6	36	--	--
5050G(-3)	1-1/2	III-350	V	6	36	6	36	--	--

**Terms and Conditions:** The above combination fire and smoke dampers are accepted with the following conditions:

1. Dampers shall be installed in accordance with their Underwriters Laboratories, Inc.'s rating as shown in the above Tables.
2. All uses, locations and installations shall comply with the New York City Building Code and the manufacturer's installation instructions.
3. All shipments and deliveries of such equipment shall be provided with a metal tag, suitably placed, certifying that the equipment shipped or delivered is equivalent to that tested and accepted for use, as provided for in Section 27-131 of the New York City Building Code.

NOTE: In accordance with Section 27-131(d), all materials tested and accepted for use shall be subject to periodic retesting as determined by the Commissioner; and any material which upon retesting is found not to comply with Code requirements or the requirements set forth in the approval of the Commissioner shall cease to be acceptable for the use intended. During the period for such retesting, the Commissioner may require the use of such material to be restricted or discontinued if necessary to secure safety.

Final Acceptance November 14, 2007

Examined By Suen Derkhdam