



**WEAVER CONSTRUCTION MANAGEMENT, INC.**  
 3679 S. Huron St., Suite 404  
 Englewood, CO 80110  
 Phone: (303) 789-4111 FAX: (303) 789-4310

**SUBMITTAL TRANSMITTAL**

December 15, 2011

**WGC Submittal No: 15820-001**

PROJECT: **Harold Thompson Regional WRF**  
 Birdsall Rd.  
 Fountain, CO 80817  
 Job No. 2908

ENGINEER: **GMS, Inc.**  
 611 No. Weber St., #300  
 Colorado Springs, CO 80903  
 719-475-2935 Roger Sams

OWNER: **Lower Fountain Metropolitan  
 Sewage Disposal District**  
 901 S. Santa Fe Ave.  
 Fountain, CO 80817  
 719-382-5303 James Heckman

CONTRACTOR: **Kuck Mechanical Contractors, LLC.**  
 395 West 67<sup>th</sup> Street  
 Loveland, CO 80593  
 970-461-3553 Melanie Peterson

SUBJECT: Manual Balancing Damper (MBD-15)

SPEC SECTION: 15820 - Duct Accessories

PREVIOUS SUBMISSION DATES:

DEVIATIONS FROM SPEC: \_\_\_ YES  X  NO

CONTRACTOR'S STAMP: This submittal has been reviewed by Weaver General Construction and approved with respect to the means, methods, techniques, & safety precautions & programs incidental thereto. Weaver General Construction also warrants that this submittal complies with contracted documents and comprises on deviations thereto:

<p>Contractor's Stamp:</p> <p>Date: 12/15/11          Reviewed by: H.C. Myers  <input checked="" type="checkbox"/> Reviewed Without Comments  <input type="checkbox"/> Reviewed With Comments</p> <p>ENGINEER'S          COMMENTS:</p>	<p>Engineer's Stamp:</p>
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395 West 67th Street  
P.O. Box 388  
Loveland, CO 80539-0388  
Phone: (970) 461-3553  
Fax: (970) 461-3443

**DATE:** 08/10/11

**SENT TO:** Weaver General Contractors

**Attn:** John Jacob

**JOB:** Harold D. Thompson WRF (#01135)  
CO

**SUBMITTAL NO.:** 00002

**SUBMITTAL DUE:**

**PACKAGE:** n/a

**VENDOR NAME:** CFM

**SPECIFICATION #:** 15820

**SUBJECT:** Steel Manual Dampers

**REVIEW DETAILS:**

<b>Review #:</b> 1	<b>Received:</b> 08/10/11	<b>Priority:</b> Normal
<b>Desc:</b> Steel Manual Dampers	<b>Sent:</b> 08/10/11	<b>Status:</b> Open
<b>Reviewer:</b> John Jacob	<b>Returned:</b>	<b>Sepias:</b> 0
Weaver General Contractors	<b>Forwarded:</b>	<b>Prints:</b> 0

**Sent for the following action(s):**

- For Approval**
                    
  **For Distribution**
                    
  **For Your Use/Files**
                    
  **As Req'd per**

**Action Needed:**

Sincerely,  
Melanie Peterson  
  
Kuck Mechanical Contractors  
PM Assistant  
395 W. 67th Street  
Loveland, CO 80538

# ***SUBMITTAL***

*Job Title:* **Wastewater Treatment Plant**

*Engineer:* Plant Engineering Consultant

*Consultant:* Mr. Chris Freer

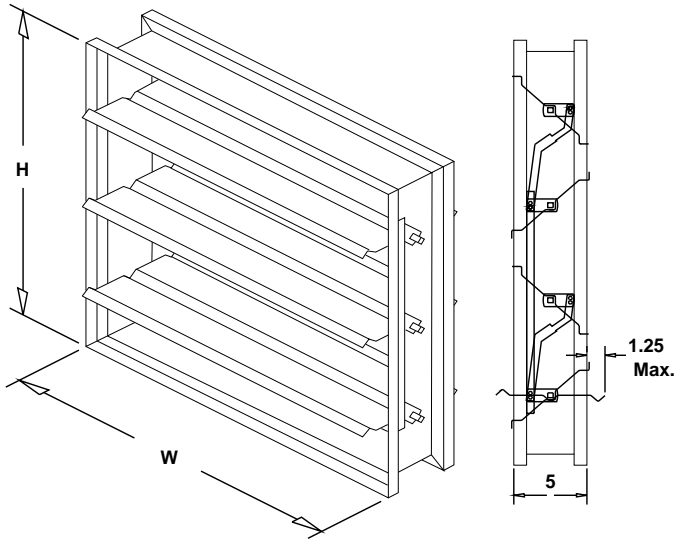
*Elevation: (ft)* 6,000

*Date:* 08/04/11

CFM COMPANY  
413D NORTH HWY 287  
FORT COLLINS , CO 80524-1346  
US  
Phone: (970)493-7293  
Fax: (970)493-7297  
Email Address: samh@cfmcompany.com



P.O. Box 410 Schofield, WI 54476 (715) 359-6171 FAX (715) 355-2399 [www.greenheck.com](http://www.greenheck.com)



# MBD-15

## Manual Balancing Damper

### Application & Design

The model MBD-15 is a manual balancing damper designed to regulate the flow of air in an HVAC system. They are not intended to be used in applications as a positive shut off or for automatic control. Design incorporates heavy gauge galvanized steel construction for durability and longevity. MBD-15 meets SMACNA's recommended construction requirements for manual balancing dampers.

- Operator: 0.5 in dia. locking manual quadrant.

Notes: All dimensions shown are in units of inches.

W & H furnished approximately 0.25 in undersized and only refer to damper dimensions (sleeve thickness is not included).

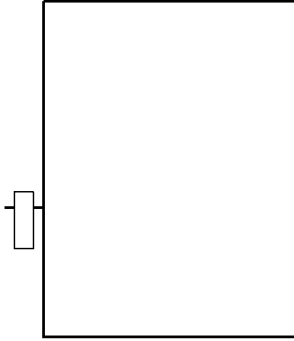
### CONSTRUCTION FEATURES

<b>Blade Action:</b>	Opposed	<b>Linkage Material:</b>	Steel
<b>Material:</b>	Galvanized	<b>Sizing:</b>	Nominal
<b>Axle Material:</b>	Steel	<b>Standoff Bracket (in):</b>	1.5
<b>Axle Bearings:</b>	Synthetic	<b>Extension Pins:</b>	Steel

ID #	Tag	Qty	W (in)	H (in)	Drive Arr.
1-1		1	24.000	28.000	11-1FEL-0
Tags:					
1-2		1	22.000	38.000	11-1FEL-0
Tags:					
1-3		1	8.000	8.000	11-1FEL-0
Tags:					
1-4		10	20.000	12.000	11-1FEL-0
Tags:					
1-5		1	30.000	12.000	11-1FEL-0
Tags:					

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### Damper Drive Arrangements



11-1FEL-0 or 11CEL-0