



---

**Miami Tech Inc.**

**MODEL US3**  
**ROUND FIRE DAMPER**  
INSTALLATION INSTRUCTIONS



The City of New York 909-89-SM  
California State Fire Marshall 3225-1382:100

**Stock ID: IOM-US3**  
January, 2001  
©2005 Miami Tech Inc  
Miami, FL

---

5/2005

## Foreword

This publication details the installation requirements for dynamic or static application fire dampers as manufactured by Miami Tech. Use of this manual for systems or products not manufactured or supplied by Miami Tech shall not be applicable.

All products covered by this manual have been tested in accordance with UL555 and are authorized to bear the UL classification mark for fire dampers. Specific Fire Damper model numbers and their corresponding UL file numbers may be found in UL's Fire Resistance Directory.

For specific fire damper location requirements, duct construction and connection or installation practices, refer to the following codes or standards:

**NFPA Publications:**

NFPA 90A - Standard for the Installation of Air-Conditioning and Ventilation Systems

**UL Publications:**

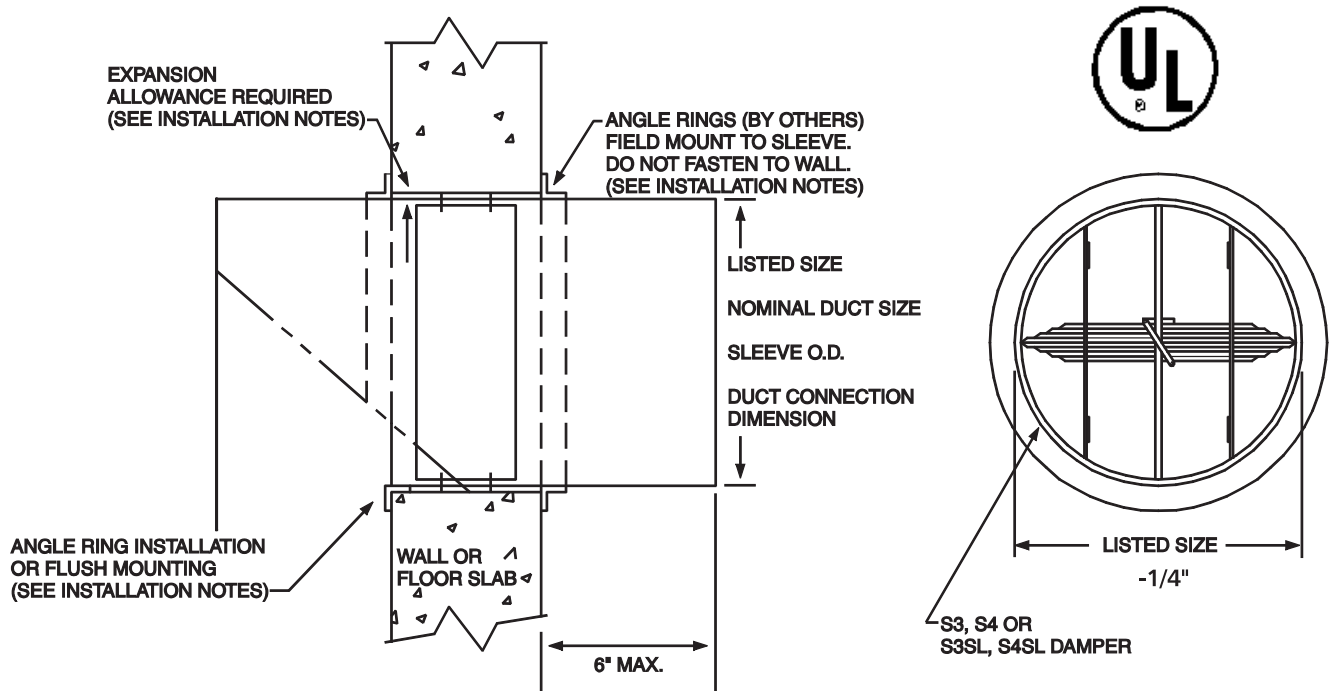
UL555 - Standard for Safety, Fire Dampers

**SMACNA Publications:**

Fire, Smoke and Radiation Damper Installation Guide for HVAC Systems Guide  
HVAC Duct Construction Standards - Metal and Flexible

The Installation Instructions found within this manual have been specifically drawn and detailed to meet the requirements of UL555. Some jurisdictions may require additional or different installation methods; therefore, consult with the authority having jurisdiction for specific differences. For these cases, the requirements defined by the authority having jurisdiction will take precedence over the documents contained herein.

## Model US3 • 1.5 Hour Round Fire Damper, Dynamic or Static Applications



Fusible Link – 165°F, 212°F Alternate

### NOTES:

1. Secure the damper to the steel sleeve with 1/4" diameter steel bolts and nuts, or by track welding with beads 1/2" minimum in length, or with No. 10 steel sheetmetal screws, or with 3/16" steel pop rivets. Fasteners or weld beads should be maximum 8" on centers.
2. The sleeve shall be of the same gauge or heavier than duct to which it is attached. Gauges shall conform to SMACNA or ASHRAE duct standards. Sleeve shall be 16 gauge steel or thicker, not to exceed 10 gauge. Duct connections can be rigid or a 4" drawband connection as shown in the SMACNA Fire, Smoke and Radiation Damper Installation Guide can also be used. Connecting ducts shall not be continuous, but shall terminate at the sleeve.
3. Sleeves shall be installed so the damper is within the masonry, block or gypsum wallboard fire barrier so that the length of the sleeve extending beyond the wall shall not exceed 6" on each side.
4. Sleeves must be installed so damper blade locks are uppermost in horizontal installation and toward the access door in all cases. Blade locks found on size 13" diameter and larger.
5. The opening diameter to be 3/4" larger than the actual diameter of the damper.
6. Secure steel mounting angle rings to the sleeve only, so as to frame both faces of the opening. Mounting angle rings shall be a minimum of 1" x 1" x 16 gauge. Fasten rings to the sleeve using the same means as required for fastening the damper to the sleeve. In place of mounting angle rings, a series of not less than 12 gauge steel angle clips may be used. Angle clips attached to the sleeve maximum 8" on centers. For installations requiring flush mounting, angle rings may be mounted facing into the opening. Ends of rings can be welded or unwelded. Mounting angle rings and angle clips supplied by others.