# PRODUCT SPECIFICATION GUIDE

## MODEL: STATIC FIRE DAMPERS - SLIMLINE

# DIVISION - Heating, Ventilation, and Air Conditioning (HVAC)

1. **GENERAL**
   * + 1. **SECTION INCLUDES**
          1. Slimline static fire dampers with curtain style blades meeting the requirements of the latest edition of UL Standard 555.
       2. **SUMMARY**
          1. Section – HVAC Ducts and Casings.
       3. **REFERENCES**
2. IBC – International Building Code.
3. NFPA 90A - Installation of Air Conditioning and Ventilating Systems.
4. NFPA 101 – Life Safety Code.
5. UL 555 - Standard for Safety; Fire Dampers.
   * + 1. **SUBMITTALS**
6. Comply with requirements of Submittal Section.
7. Product Data: Submit manufacturer's product data.
   1. Include UL ratings, fire resistance, size limitations, and mounting orientation.
   2. Indicate materials, construction, dimensions, and installation details.
   3. Verify conformance to NFPA, UL, and applicable building code.
   4. Include a copy of UL approved installation instructions.
      * 1. **QUALITY ASSURANCE**
           1. Dampers shall be warranted against manufacturing defects for a period of 1 years.
           2. Dampers shall be tested, rated and labeled in accordance with the latest UL-555 requirements.
           3. Comply with NFPA 90A, "Installation of Air Conditioning and Ventilating Systems," and with NFPA 90B, "Installation of Warm Air Heating and Air Conditioning Systems."
        2. **DELIVERY, STORAGE, AND HANDLING**
           1. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly indicating manufacturer, material, and location of installation.
           2. Storage: Store materials in a dry area indoor and protected from damage and in accordance with manufacturer’s instructions.
           3. Handling: Handle and lift dampers by sleeve or frame only. Do not lift damper by blades or jackshaft. Protect materials and finishes during handling and installation to prevent damage.
8. **PRODUCTS**
   * + 1. **MANUFACTURER**
          1. Slimline static fire dampers with curtain style blades shall be in compliance and labelled to UL 555 standard with the specific model reflecting on the UL certificate of the supplier, e.g., Central Ventilation Systems (R27700), and approved by Civil Defense.
       2. **STATIC FIRE DAMPERS**
          1. Model: FD-SL slimline static curtain fire dampers.
          2. Ratings:

Fire Rating:

* 1½ hours in accordance with UL-555
* 3 hours in accordance with UL-555
  + - * 1. Construction:

Frame:

Minimum 20-gauge (1 mm) roll formed, galvanized steel for Integral sleeve fire damper

Minimum 22-gauge (0.85 mm) roll formed, galvanized steel for external sleeve fire damper

Frame Depth: 2-3/18” (55 mm).

Blades: Minimum 22-gauge (0.85 mm) roll formed, galvanized steel, curtain type.

Closure Spring: Stainless steel negator type (horizontal only).

Fire Closure Device: UL listed fusible link.

Release Temperature:

* 165 ºF (74 ºC).
* 212 ºF (100 ºC).

Mounting: Vertical or Horizontal

Duct Transition Connection:

Type A – Blades and frame in the air stream, rectangular connection.

Type B – Blades out of the air stream, rectangular connection.

Type C – Blades and frame out of the air stream, square/rectangular/round/oval connection.

**Accessories:**

1. Sleeve: Minimum 20-gauge (1.0 mm), integral to frame for single section dampers and externally attached for multi-section dampers.
2. Retaining Angles:
   1. Model:

* Provided in field
* 1 sided - frame retaining angles 1 ½ x 1 ½ inches x 16-gauge (38 x 38 x 1.5 mm)
* 2 sided - frame retaining angles 1 ½ x 1 ½ inches x 16-gauge (38 x 38 x 1.5 mm)

1. Micro-Switches:
   1. UL recognized micro-switch factory installed for blade’s position feedback.
2. **EXECUTION**
   * + 1. **EXAMINATION**
          1. Examine areas to receive dampers. Notify the Engineer of conditions that would adversely affect installation or subsequent utilization of dampers. Do not proceed with installation until unsatisfactory conditions are corrected
       2. **INSTALLATION**
          1. Install dampers at locations as indicated on the drawings and in accordance with manufacturer’s UL approved installation instructions.
          2. Install dampers square and free from racking with the blades running horizontally. DO NOT compress or stretch damper sleeve or frame into the duct or opening.
          3. Contractor shall furnish and install duct access door adjacent to dampers for inspection and maintenance. Where duct size permits, install minimum 12 inches x 12 inches (305 x 305 mm) duct access doors.
          4. Handle dampers using the frame or sleeve. Do not lift or move damper using blades or jackshaft.

**END OF SECTION**