

## **FIRE/SMOKE DAMPER NOTES:**

DAMPERS SHALL BE CONSTRUCTED, TESTED, AND LABELED AS FOLLOWS:

1: APPROVING AGENCIES AND STANDARDS BY UL 555, UL 555-S, NFPA 90A, NFPA 92A

2: LEAKAGE RATINGS - CLASS II:

3: FIRE ENDURANCE - 1 ½ HOUR

4: DAMPER CONSTRUCTION, TRIPLE-VEE BLADE (#16 GAUGE STEEL)

5: MATERIALS - GALVANIZED STEEL

7: BUSHINGS – FLANGED DESIGN, SS OILLITE.

8: SIDE JAMB SEALS – COMPRESSIBLE SS.

9: BLADE EDGE SEALS – SILICONE RATED TO 350° F.

10: HEAT RESPONSIVE DEVICE SHALL BE MECHANICAL FUSIBLE LINK, ELECTRIC HEAT SENSOR (SINGLE TEMPERATURE OR DUAL TEMPERATURE AS REQUIRED BY THE ENGINEER)

11: ALL ACTUATORS SHALL BE 120V (UNLESS SPECIFIED OTHERWISE), BELIMO MODEL #FSNF-120 WITH THE FOLLOWING APPROVALS– UL 873, UL 555, AND UL 555-S.

12: FACTORY SLEEVE TO BE 24” LENGTH UNLESS OTHERWISE SPECIFIED.

13: SLEEVE GAUGE, TERMINATIONS, AND RETAINING ANGLES – SHALL BE AS REQUIRED AND COMPLY WITH UL 555, NFPA 90A, and the SMACNA HVAC DUCT CONSTRUCTION STANDARD

14: ACCESSORIES –BLADE POSITION INDICATORS FACTORY INSTALLED.

15: INSTALLATION - EXPANSION SPACE MUST NOT BE FILLED WITH CAULKING, FILL OR FIREPACKING MATERIALS; THIS SPACE MUST BE LEFT FOR THERMAL EXPANSION.

16: MAXIMUM OPENING – THE MAXIMUM OPENING THAT MAY BE PROTECTED WITH A SINGLE DAMPER ASSEMBLY – WHETHER SINGLE OR MULTI SECTION -- MAY NOT EXCEED THE LIMITS SHOWN IN THE UL ONLINE CERTIFICATIONS DIRECTORY.

17: MANUFACTURER SHALL BE POTTORFF OR APPROVED EQUAL.

18: SPECIFICATION FOR SMOKE DAMPER SHALL BE AS ABOVE EXCEPT DELETE NOTE NUMBER 10 AND HEAT RESPONSIVE DEVICE FROM DETAIL.