

GRAPHIC SCALE 1/8"=1'-0"

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RUSKIN

3500 W. Greentree Pike, Charlotte, NC 28217
1-800-361-7364

1 1/2 HOUR UL CLASSIFIED
CHARTRAY TYPE FIRE DAMPERS
MODELS 50-5820, 5821, 5821A, 5821B, 5821C, 5821D, 5821E, 5821F, 5821G, 5821H, 5821I, 5821J, 5821K, 5821L, 5821M, 5821N, 5821O, 5821P, 5821Q, 5821R, 5821S, 5821T, 5821U, 5821V, 5821W, 5821X, 5821Y, 5821Z

For fire damper application, see RUSKIN literature. For fire damper application, see RUSKIN literature.

APPLICABLE
For fire damper application, see RUSKIN literature.

CHARTRAY TYPE FIRE DAMPERS
MODELS 50-5820, 5821, 5821A, 5821B, 5821C, 5821D, 5821E, 5821F, 5821G, 5821H, 5821I, 5821J, 5821K, 5821L, 5821M, 5821N, 5821O, 5821P, 5821Q, 5821R, 5821S, 5821T, 5821U, 5821V, 5821W, 5821X, 5821Y, 5821Z

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1. Compliance
This fire damper shall comply with the requirements of the International Building Code (IBC) for fire dampers.

2. Materials and Workmanship
The fire damper shall be constructed of materials and workmanship as detailed on these drawings.

3. Installation
The fire damper shall be installed in accordance with the manufacturer's instructions and the requirements of the International Building Code (IBC).

4. Testing
The fire damper shall be tested in accordance with the requirements of the International Building Code (IBC).

5. Maintenance
The fire damper shall be maintained in accordance with the manufacturer's instructions.

6. Painting
The fire damper shall be painted in accordance with the manufacturer's instructions.

7. Access
The fire damper shall be accessible in accordance with the requirements of the International Building Code (IBC).

8. Protection
The fire damper shall be protected in accordance with the requirements of the International Building Code (IBC).

9. Replacement
The fire damper shall be replaced in accordance with the requirements of the International Building Code (IBC).

10. Notes
See RUSKIN literature for additional information.

11. Details
See RUSKIN literature for additional information.

12. Schedules
See RUSKIN literature for additional information.

13. Specifications
See RUSKIN literature for additional information.

14. Notes
See RUSKIN literature for additional information.

15. Details
See RUSKIN literature for additional information.

16. Schedules
See RUSKIN literature for additional information.

17. Specifications
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18. Notes
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22. Schedules
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23. Specifications
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32. Schedules
See RUSKIN literature for additional information.

33. Specifications
See RUSKIN literature for additional information.

34. Notes
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35. Details
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36. Schedules
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37. Specifications
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38. Notes
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39. Details
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40. Schedules
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42. Schedules
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43. Specifications
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44. Notes
See RUSKIN literature for additional information.

45. Details
See RUSKIN literature for additional information.

46. Schedules
See RUSKIN literature for additional information.

47. Specifications
See RUSKIN literature for additional information.

48. Notes
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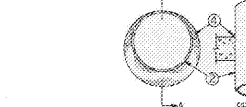
49. Details
See RUSKIN literature for additional information.

50. Schedules
See RUSKIN literature for additional information.



System No. CAJ1001
(Formerly System No. 48)
Rating - 2 Hr
Flow - 150 CFM

System No. CAJ5001
(Formerly System No. 49)
Rating - 1 1/2 Hr
Flow - 150 CFM



System No. CAJ1001
(Formerly System No. 48)
Rating - 2 Hr
Flow - 150 CFM



System No. CAJ5001
(Formerly System No. 49)
Rating - 1 1/2 Hr
Flow - 150 CFM

- Floor or Wall Assembly** - See detail. This assembly shall be tested in accordance with the requirements of the International Building Code (IBC).
- Fire Damper** - See detail. This fire damper shall be tested in accordance with the requirements of the International Building Code (IBC).
- Penetration** - See detail. This penetration shall be tested in accordance with the requirements of the International Building Code (IBC).
- Roof Penetration** - See detail. This roof penetration shall be tested in accordance with the requirements of the International Building Code (IBC).
- Through-Roof Penetration** - See detail. This through-roof penetration shall be tested in accordance with the requirements of the International Building Code (IBC).
- Through-Wall Penetration** - See detail. This through-wall penetration shall be tested in accordance with the requirements of the International Building Code (IBC).
- Through-Floor Penetration** - See detail. This through-floor penetration shall be tested in accordance with the requirements of the International Building Code (IBC).
- Through-Ceiling Penetration** - See detail. This through-ceiling penetration shall be tested in accordance with the requirements of the International Building Code (IBC).
- Through-Partition Penetration** - See detail. This through-partition penetration shall be tested in accordance with the requirements of the International Building Code (IBC).
- Through-Door Penetration** - See detail. This through-door penetration shall be tested in accordance with the requirements of the International Building Code (IBC).
- Through-Window Penetration** - See detail. This through-window penetration shall be tested in accordance with the requirements of the International Building Code (IBC).
- Through-Ramp Penetration** - See detail. This through-ramp penetration shall be tested in accordance with the requirements of the International Building Code (IBC).
- Through-Slope Penetration** - See detail. This through-slope penetration shall be tested in accordance with the requirements of the International Building Code (IBC).
- Through-Beam Penetration** - See detail. This through-beam penetration shall be tested in accordance with the requirements of the International Building Code (IBC).
- Through-Joist Penetration** - See detail. This through-joist penetration shall be tested in accordance with the requirements of the International Building Code (IBC).
- Through-Raft Penetration** - See detail. This through-raft penetration shall be tested in accordance with the requirements of the International Building Code (IBC).
- Through-Deck Penetration** - See detail. This through-deck penetration shall be tested in accordance with the requirements of the International Building Code (IBC).
- Through-Slab Penetration** - See detail. This through-slab penetration shall be tested in accordance with the requirements of the International Building Code (IBC).
- Through-Footing Penetration** - See detail. This through-footing penetration shall be tested in accordance with the requirements of the International Building Code (IBC).
- Through-Foundation Penetration** - See detail. This through-foundation penetration shall be tested in accordance with the requirements of the International Building Code (IBC).
- Through-Basement Penetration** - See detail. This through-basement penetration shall be tested in accordance with the requirements of the International Building Code (IBC).
- Through-Attic Penetration** - See detail. This through-attic penetration shall be tested in accordance with the requirements of the International Building Code (IBC).
- Through-Roof Penetration** - See detail. This through-roof penetration shall be tested in accordance with the requirements of the International Building Code (IBC).

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NOTE: DETAILS ARE FOR REFERENCE ONLY. DAMPERS TO BE INSTALLED PER MANUFACTURER'S UL APPROVED INSTALLATION INSTRUCTIONS FOR THE DAMPER FURNISHED. DAMPERS TO BE BY RUSKIN, PREFCO, SAFE AIR, NATIONAL CONTROLLED AIR, UNITED AIR, OR NAILOR. FIRESTOPPING PRODUCTS TO BE BY 3M, DOW CORNING, OR CERTIFIED.

NOTE: INSTALL FIRE DAMPER IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION DETAILS. DO NOT VARY FROM THOSE INSTRUCTIONS IN ANY WAY. DO NOT FIRESTOP THE GAP BETWEEN THE FIRE DAMPER SLEEVE AND THE PENETRATION UNLESS SPECIFICALLY REQUIRED BY THE DAMPER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

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NOTE: THIS TYPICAL FIRE/SMOKE DAMPER DETAIL IS GENERIC GUIDANCE ONLY. INSTALL FIRE/SMOKE DAMPER IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION DETAILS. DO NOT VARY FROM THOSE INSTRUCTIONS IN ANY WAY. DO NOT FIRESTOP THE GAP BETWEEN THE FIRE/SMOKE DAMPER SLEEVE AND THE PENETRATION UNLESS SPECIFICALLY REQUIRED BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

No.	Flow (cfm)	Rating (hr)	Weight (lbs)	Net Weight (lbs)	Volume (cu ft)	Area (sq ft)	Perimeter (ft)	Flow (cfm)	Rating (hr)
1	150	1 1/2	10	10	0.5	1.5	4.5	150	1 1/2
2	150	2	15	15	0.5	1.5	4.5	150	2
3	150	3	20	20	0.5	1.5	4.5	150	3
4	150	4	25	25	0.5	1.5	4.5	150	4
5	150	5	30	30	0.5	1.5	4.5	150	5
6	150	6	35	35	0.5	1.5	4.5	150	6
7	150	7	40	40	0.5	1.5	4.5	150	7
8	150	8	45	45	0.5	1.5	4.5	150	8
9	150	9	50	50	0.5	1.5	4.5	150	9
10	150	10	55	55	0.5	1.5	4.5	150	10

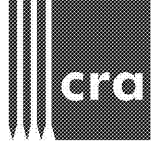
3M Fire Protection Products

3M Fire Protection Products

Order Plans @

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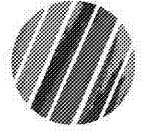
222 cloister court
chapel hill, nc 27514
919.401.8586
www.cra-nc.com



Reece, Noland & McElrath, Inc.
Carrington, North Carolina 28716



Cedar Ridge High School
Classroom Addition
Orange County Schools
1125 New Grady Brown School Road
Hillsborough, North Carolina



no.	revisions
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drawn checked
DIM MRM
U.L.
Details

sheet
M4.5

project no. 1716

date 4/25/19