

## Dampers for Fire Barrier and Smoke Applications

### COMPANY

#### BETEC CAD INDUSTRIES (FZC)

Plot of Land P4-02,03 & 04 Saif Zone  
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R21925

### Fire Dampers for Use in Static Systems

| Model                           | Hr<br>Class | Damper<br>Mounting<br>Position | Single Section<br>Damper Size, in. |        | Multiple Section<br>Damper Size, in. |    |
|---------------------------------|-------------|--------------------------------|------------------------------------|--------|--------------------------------------|----|
|                                 |             |                                | W                                  | H      | W                                    | H  |
| FD-GB-20-A/AS/B/BS/AF/BF/R      | 1-1/2       | V                              | 39 1/2                             | 39 1/2 | 72                                   | 72 |
|                                 |             | H                              | 36                                 | 36     | —                                    | —  |
| FD-GB/SB/GSB/SGB-22-A/B/AS/BS/R | 1-1/2       | V                              | 30                                 | 48     | 60                                   | 48 |
| FD-GB-20-A/AS/B/BS/R            | 1-1/2       | V/H                            | 30                                 | 48     | 144                                  | 96 |
| FD-GB-30-A/AS/B/BS/AF/BF/R      | 3           | V                              | 39 1/2                             | 39 1/2 | 72                                   | 72 |
| FD-GB-30-A/AS/B/BS/R            | 3           | V                              | 30                                 | 48     | 144                                  | 96 |
| FD-GB-21-A/AS/B/BS/R            | 1-1/2       | V/H                            | 30                                 | 48     | 144                                  | 96 |
| FD-GB-31-A/AS/B/BS/R            | 3           | V                              | 30                                 | 48     | 144                                  | 96 |
|                                 |             |                                |                                    |        |                                      |    |
| MFD-GB -20-A/R                  | 1-1/2       | V                              | 36                                 | 36     | 72                                   | 72 |
|                                 |             | H                              | 36                                 | 36     | —                                    | —  |
| MFD-SB -20-A/R                  | 1-1/2       | V/H                            | 36                                 | 36     | —                                    | —  |
| MFD-GSB-20-A/R                  | 1-1/2       | V/H                            | 36                                 | 36     | —                                    | —  |
| MFD-SGB-20-A/R                  | 1-1/2       | V/H                            | 36                                 | 36     | —                                    | —  |
| MFD/QFD-GB/SB/GSB/SGB-F-20-A/R  | 1-1/2       | H                              | 36                                 | 36     | —                                    | —  |
| MFD-GB -30-A/R                  | 3           | V                              | 36                                 | 36     | 72                                   | 72 |
|                                 |             | H                              | 36                                 | 36     | —                                    | —  |

|                                |       |     |    |    |     |    |
|--------------------------------|-------|-----|----|----|-----|----|
| MFD-SB-30-A/R                  | 3     | V/H | 36 | 36 | —   | —  |
| MFD-GSB-30-A/R                 | 3     | V/H | 36 | 36 | —   | —  |
| MFD-SGB-30-A/R                 | 3     | V/H | 36 | 36 | —   | —  |
| MFD/QFD-GB/SB/GSB/SGB-F-30-A/R | 3     | H   | 36 | 36 | —   | —  |
| MFD-GB-31-A/R                  | 3     | V   | 24 | 48 | 144 | 96 |
| MFD-GB-21-A/R                  | 1-1/2 | V/H | 24 | 48 | 144 | 96 |
| MFD-GB-31-A/R                  | 3     | V   | 36 | 48 | 72  | 48 |
| MFD-GB-21-A/R                  | 1-1/2 | V   | 36 | 48 | 72  | 48 |
| MFD-GB/SB/GSB/SGB-22-B         | 1-1/2 | V   | 30 | 48 | 120 | 48 |
| MFD-GB/SB/GSB/SGB-22-B         | 1-1/2 | V   | 30 | 48 | 60  | 96 |
| MFD-GB/SB/GSB/SGB-22-B         | 1-1/2 | H   | 30 | 48 | 120 | 96 |

### Fire Dampers for Use in Dynamic Systems

Dampers rated 2000 fpm / 4.0 in. WC:

| Model                          | Hr Class | Damper Mounting Position | Single Section Damper Size, in. |    | Multiple Section Damper Size, in. |    |
|--------------------------------|----------|--------------------------|---------------------------------|----|-----------------------------------|----|
|                                |          |                          | W                               | H  | W                                 | H  |
| FD-GBD-20-AS/BS/AF/BF/A/B/R    | 1-1/2    | V                        | 36                              | 36 | —                                 | —  |
| FD-GBD-30-AS/BS/ AF/BF/A/B/R   | 3        | V                        | 36                              | 36 | —                                 | —  |
| MFD-GB/SB/GSB/SGB-D-20-A/R     | 1-1/2    | V/H                      | 36                              | 36 | —                                 | —  |
| MFD-GB/SB/GSB/SGB-D-30-A/R     | 3        | V/H                      | 36                              | 36 | —                                 | —  |
| MFD-GB-F-30-A                  | 3        | H                        | 36                              | 36 | —                                 | —  |
| MFD-GB-D -20-A/R               | 1-1/2    | V                        | 36                              | 36 | 72                                | 72 |
| MFD-GB-D -20-A/R               | 1-1/2    | H                        | 36                              | 36 | —                                 | —  |
| MFD-SB-D-20-A/R                | 1-1/2    | V/H                      | 36                              | 36 | —                                 | —  |
| MFD-GSB-D-20-A/R               | 1-1/2    | V/H                      | 36                              | 36 | —                                 | —  |
| MFD-SGB-D-20-A/R               | 1-1/2    | V/H                      | 36                              | 36 | —                                 | —  |
| MFD/QFD-GB/SB/GSB/SGB-D-20-A/R | 1-1/2    | H                        | 36                              | 36 | —                                 | —  |
| MFD-GB -D-30-A/R               | 3        | V                        | 36                              | 36 | 72                                | 72 |
| MFD-GB -D-30-A/R               | 3        | H                        | 36                              | 36 | —                                 | —  |
| MFD-SB-D-30-A/R                | 3        | V/H                      | 36                              | 36 | —                                 | —  |
| MFD-GSB-D-30-A/R               | 3        | V/H                      | 36                              | 36 | —                                 | —  |
| MFD-SGB-D-30-A/R               | 3        | V/H                      | 36                              | 36 | —                                 | —  |

|                                |       |     |    |    |     |    |
|--------------------------------|-------|-----|----|----|-----|----|
| MFD/QFD-GB/SB/GSB/SGB-D-30-A/R | 3     | H   | 36 | 36 | —   | —  |
| MFD-GB-D-31-A/R                | 3     | V   | 24 | 48 | 144 | 96 |
| MFD-GB-D-21-A/R                | 1-1/2 | V/H | 24 | 48 | 144 | 96 |
| MFD-GB-D-31-A/R                | 3     | V   | 36 | 48 | 72  | 48 |
| MFD-GB-D-21-A/R                | 1-1/2 | V   | 36 | 48 | 72  | 48 |
| MFD-GB/SB/GSB/SGB-22-B         | 1-1/2 | V/H | 30 | 48 | —   | —  |

**Combination Fire and Smoke Dampers**

Dampers rated 2000 fpm / 4.0 in. WC:

| Model                 | Hr Class | Leakage Class    | Damper Mounting Position | Single Section Damper Size, in. |     |     |     | Multiple Section Damper Size, in. |    |
|-----------------------|----------|------------------|--------------------------|---------------------------------|-----|-----|-----|-----------------------------------|----|
|                       |          |                  |                          | W                               |     | H   |     | W                                 | H  |
|                       |          |                  |                          | Min                             | Max | Min | Max |                                   |    |
| MSFD-GBD-20C2-A/R     | 1-1/2    | II-250           | V                        | 9                               | 24  | 9   | 24  | —                                 | —  |
| MSFD-GB-20C2-A/R      | 1-1/2    | II-250           | V                        | 9                               | 36  | 9   | 36  | 72                                | 36 |
|                       |          |                  | H                        | 9                               | 36  | 9   | 36  | —                                 | —  |
| MSFD-GSB/SGB-20C2-A/R | 1-1/2    | II-250           | V                        | 9                               | 36  | 9   | 36  | 72                                | 36 |
|                       |          |                  | H                        | 9                               | 36  | 9   | 36  | —                                 | —  |
| MSFD-GB-20C1-A/R      | 1-1/2    | I-250            | V                        | 6                               | 36  | 6   | 36  | 72                                | 36 |
|                       |          |                  | H                        | 6                               | 36  | 6   | 36  | —                                 | —  |
| MSFD-GSB/SGB-20C1-A/R | 1-1/2    | I-250            | V                        | 6                               | 36  | 6   | 36  | 72                                | 36 |
|                       |          |                  | H                        | 6                               | 36  | 6   | 36  | —                                 | —  |
| MSFD-GB-30C2-A/R      | 3        | II-250           | V                        | 9                               | 36  | 9   | 36  | 72                                | 36 |
|                       |          |                  | H                        | 9                               | 36  | 9   | 36  | —                                 | —  |
| MSFD-GSB/SGB-30C2-A/R | 3        | II-250           | V                        | 9                               | 36  | 9   | 36  | 72                                | 36 |
|                       |          |                  | H                        | 9                               | 36  | 9   | 36  | —                                 | —  |
| MSFD-GB-30C1-A/R      | 3        | I-250            | V                        | 6                               | 36  | 6   | 36  | 72                                | 36 |
|                       |          |                  | H                        | 6                               | 36  | 6   | 36  | —                                 | —  |
| MSFD-GSB/SGB-30C1-A/R | 3        | I-250            | V                        | 6                               | 36  | 6   | 36  | 72                                | 36 |
|                       |          |                  | H                        | 6                               | 36  | 6   | 36  | —                                 | —  |
| MSFD-GB-21C1-A/R      | 1-1/2    | I-350<br>I-250   | V/ H                     | 6                               | 24  | 9   | 48  | 144                               | 96 |
| MSFD-GB-21C2-A/R      | 1-1/2    | II-350<br>II-250 | V/ H                     | 6                               | 24  | 9   | 48  | 144                               | 96 |

|                             |       |                    |      |   |    |   |    |     |    |
|-----------------------------|-------|--------------------|------|---|----|---|----|-----|----|
| MSFD-GB-21C3-A/R            | 1-1/2 | III-350<br>III-250 | V/ H | 6 | 24 | 9 | 48 | 144 | 96 |
| MSFD-GB-31C1-A/R            | 3     | I-350<br>I-250     | V    | 6 | 24 | 9 | 48 | 144 | 96 |
| MSFD-GB-31C2-A/R            | 3     | II-350<br>II-250   | V    | 6 | 24 | 9 | 48 | 144 | 96 |
| MSFD-GB-31C3-A/R            | 3     | III-350<br>III-250 | V    | 6 | 24 | 9 | 48 | 144 | 96 |
| MSFD-GB-21C1-A/R            | 1-1/2 | I-250              | V    | 6 | 36 | 9 | 48 | 72  | 48 |
| MSFD-GB-21C2-A/R            | 1-1/2 | II-250             | V    | 6 | 36 | 9 | 48 | 72  | 48 |
| MSFD-GB-21C3-A/R            | 1-1/2 | III-250            | V    | 6 | 36 | 9 | 48 | 72  | 48 |
| MSFD-GB-31C1-A/R            | 3     | I-250              | V    | 6 | 36 | 9 | 48 | 72  | 48 |
| MSFD-GB-31C2-A/R            | 3     | II-250             | V    | 6 | 36 | 9 | 48 | 72  | 48 |
| MSFD-GB-31C3-A/R            | 3     | III-250            | V    | 6 | 36 | 9 | 48 | 72  | 48 |
| MSFD-GB-F-20C2-A/R          | 1-1/2 | II-250             | H    | 6 | 36 | 8 | 36 | —   | —  |
| MSFD-GB-F-30C2-A/R          | 3     | II-250             | H    | 6 | 36 | 8 | 36 | —   | —  |
| MSFD-GB/SB/GSB/SGB-22C2-B/R | 1-1/2 | II-250             | V/H  | 6 | 30 | 9 | 48 | —   | —  |
| MSFD-GB/SB/GSB/SGB-22C3-B/R | 1-1/2 | III-250            | V/H  | 6 | 30 | 9 | 48 | —   | —  |

**Smoke Dampers**

**Dampers rated 2000 fpm/4.0 in. WC:**

| Model                | Leakage Class | Damper Mounting Position | Single Section Damper Size, in. |     |     |     | Multiple Section Damper Size, in. |    |
|----------------------|---------------|--------------------------|---------------------------------|-----|-----|-----|-----------------------------------|----|
|                      |               |                          | W                               |     | H   |     | W                                 | H  |
|                      |               |                          | Min                             | Max | Min | Max |                                   |    |
| MSD-GBD-20C2-A/R     | II-250        | V/H                      | 9                               | 24  | 9   | 24  | —                                 | —  |
| MSD-GB-20C2-A/R      | II-250        | V/H                      | 9                               | 36  | 9   | 36  | 72                                | 36 |
| MSD-GSB/SGB-20C2-A/R | II-250        | V/H                      | 9                               | 36  | 9   | 36  | 72                                | 36 |
| MSD-GB-20C1-A/R      | I-250         | V/H                      | 6                               | 36  | 6   | 36  | 72                                | 36 |
| MSD-GSB/SGB-20C1-A/R | I-250         | V/H                      | 6                               | 36  | 6   | 36  | 72                                | 36 |
| MSD-GB-30C1-A/R      | I-250         | V/H                      | 6                               | 36  | 6   | 36  | 72                                | 36 |
| MSD-GB-21C1-A/R      | I-250         | V/H                      | 6                               | 36  | 9   | 48  | 144                               | 96 |
|                      |               |                          |                                 |     |     |     | 288                               | 48 |
| MSD-GB-21C2-A/R      | II-250        | V/H                      | 6                               | 36  | 9   | 48  | 144                               | 96 |
|                      |               |                          |                                 |     |     |     | 288                               | 48 |

|                            |         |     |   |    |   |    |     |    |
|----------------------------|---------|-----|---|----|---|----|-----|----|
| MSD-GB-21C3-A/R            | III-250 | V/H | 6 | 36 | 9 | 48 | 144 | 96 |
|                            |         |     |   |    |   |    | 288 | 48 |
| MSD-GB-21C1-A/R            | I-350   | V/H | 6 | 24 | 9 | 48 | 96  | 48 |
| MSD-GB-21C2-A/R            | II-350  | V/H | 6 | 24 | 9 | 48 | 96  | 48 |
| MSD-GB-21C3-A/R            |         | V/H | 6 | 24 | 9 | 48 | 96  | 48 |
| MSD-SB-30C1-A/R            | I-250   | V/H | 9 | 36 | 9 | 36 | 72  | 36 |
| MSD-SB-30C2-A/R            | II-250  | V/H | 9 | 36 | 9 | 36 | 72  | 36 |
| MSD-SB-30C3-A/R            | III-250 | V/H | 9 | 36 | 9 | 36 | 72  | 36 |
| MSD-GB/SB/GSB/SGB-22C2-B/R | II-250  | V/H | 6 | 30 | 9 | 48 | —   | —  |
| MSD-GB/SB/GSB/SGB-22C3-B/R | III-250 | V/H | 6 | 30 | 9 | 48 | —   | —  |

**Dampers rated 3000 fpm/6.0 in. WC:**


| Model                        | Leakage Class | Damper Mounting Position | Single Section Damper Size, in. |     |     |     | Multiple Section Damper Size, in. |    |
|------------------------------|---------------|--------------------------|---------------------------------|-----|-----|-----|-----------------------------------|----|
|                              |               |                          | W                               |     | H   |     | W                                 | H  |
|                              |               |                          | Min                             | Max | Min | Max |                                   |    |
| MSD-B-40C2-BG, TVD-B-40C2-BG | II-350        | V/H                      | 8                               | 40  | 8   | 48  | 160                               | 48 |
| MSD-B-40C3-BG, TVD-B-40C3-BG | III-350       | V/H                      | 8                               | 40  | 8   | 48  | 160                               | 48 |

For Curtain type fire damper

A: Blades in air stream, B: Blades above air stream, S: with sleeve, F: with mounting frame, R: with Round spigot & D: for dynamic application.

For Motorized fire damper

GB: GI Frame / GI Blade, SB: SS Frame / SS Blade, GSB: GI Frame / SS Blade, SGB: SS Frame / GI Blade & R: Round Spigot & D: for dynamic application

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