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# QAS™ Flex Duct Acoustical Flexible Air Duct

## Key Advantages and Markets

Quietflex has now put the Quiet in flex duct. QAS™ Acoustical Flex Duct from Quietflex reduces the overall noise associated with your system. By reducing the noise transmitted through the duct from the HVAC unit along with the noise generated by the air flow QAS™ Acoustical Flex Duct reduces the noise coming out of the register.

The key technology is the perforated inner core which allows the noise to be absorbed by the thermal insulation. In addition, QAS features Johns Manville formaldehyde-free™ insulation which reduces the risk of formaldehyde exposure.

## Advantages

- **GREENGUARD® Certified**
- **-1/2 inch W.C. Negative and +4" W.C. Positive Static Pressure**
- **Available in R-8.0**
- **Galvanized Metal Core Reinforcing**
- **Collared lengths available in 7'**
- **25' available in Weather Resistant Bag Packaging**
- **7'collared flex available in Box Packaging**
- **Oversized Core to Fit on Collars and Register Boxes**
- **UL Listed/Approved**



### Insertion Loss (dB) in Forward Flow Conditions for 10' Length

| MODEL #           | CENTER FREQUENCY (HZ) | FLOW |     |     |     |      |      |      |      |
|-------------------|-----------------------|------|-----|-----|-----|------|------|------|------|
|                   |                       | 63   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 6" Diameter Flex  | 0 FPM                 | 12   | 30  | 36  | 41  | 43   | 47   | 48   | 41   |
|                   | 400 FPM               | 12   | 30  | 37  | 42  | 43   | 47   | 49   | >42  |
|                   | 1000 FPM              | 12   | 30  | 37  | 42  | 43   | 47   | 49   | >45  |
|                   | 2000 FPM              | 12   | >30 | >36 | >38 | >39  | >43  | >50  | >45  |
|                   | 2500 FPM              | >11  | >28 | >29 | >33 | >33  | >38  | >46  | >42  |
|                   | 3000 FPM              | >10  | >27 | >26 | >28 | >28  | >33  | >40  | >37  |
| 8" Diameter Flex  | 0 FPM                 | 17   | 30  | 35  | 43  | 41   | 44   | 38   | 32   |
|                   | 400 FPM               | 18   | 30  | 35  | 43  | 41   | 44   | 38   | 32   |
|                   | 1000 FPM              | 17   | 30  | 35  | 43  | 41   | 44   | 40   | 34   |
|                   | 2000 FPM              | 16   | 31  | >35 | >39 | >41  | 44   | 42   | 39   |
|                   | 2500 FPM              | 16   | >30 | >34 | >34 | >39  | >43  | >43  | >42  |
|                   | 3000 FPM              | >15  | >28 | >29 | >30 | >33  | >38  | >41  | >35  |
| 12" Diameter Flex | 0 FPM                 | 22   | 28  | 26  | 32  | 37   | 37   | 28   | 28   |
|                   | 400 FPM               | 22   | 28  | 26  | 32  | 37   | 38   | 30   | 29   |
|                   | 1000 FPM              | 21   | 28  | 25  | 32  | 37   | 38   | 31   | 31   |
|                   | 2000 FPM              | >18  | 28  | 27  | 32  | 37   | 39   | 32   | 35   |
|                   | 2500 FPM              | >15  | >28 | 27  | >32 | 37   | 39   | 33   | >37  |
|                   | 3000 FPM              | >13  | >24 | >27 | >27 | >35  | >40  | >34  | >33  |

### Airflow Generated Sound Power Level (dB re: 10<sup>-12</sup> W) Forward Flow Conditions for 10' Length

| MODEL #           | CENTER FREQUENCY (HZ) | FLOW  |     |     |     |      |      |      |      |
|-------------------|-----------------------|-------|-----|-----|-----|------|------|------|------|
|                   |                       | 63    | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 6" Diameter Flex  | 0 FPM                 | 66*   | 49* | 37* | 25* | 20*  | 16*  | 20*  | 24*  |
|                   | 1000 FPM              | 66*   | 50* | 38* | 28* | 22*  | 16*  | 20*  | 24*  |
|                   | 2000 FPM              | 75    | 63  | 55  | 47  | 42   | 36   | 28   | 24*  |
|                   | 2500 FPM              | 79    | 67  | 60  | 53  | 48   | 42   | 36   | 31   |
|                   | 3000 FPM              | 82    | 71  | 64  | 58  | 53   | 47   | 42   | 39   |
|                   | 8" Diameter Flex      | 0 FPM | 64* | 46* | 37* | 24*  | 20*  | 16*  | 20*  |
| 1000 FPM          |                       | 64*   | 47* | 37* | 28* | 21*  | 17*  | 20*  | 24*  |
| 2000 FPM          |                       | 71    | 59  | 52  | 48  | 42   | 35   | 30   | 25*  |
| 2500 FPM          |                       | 76    | 64  | 57  | 54  | 48   | 41   | 38   | 34   |
| 3000 FPM          |                       | 81    | 70  | 61  | 59  | 53   | 46   | 44   | 43   |
| 12" Diameter Flex |                       | 0 FPM | 61* | 46* | 35* | 23*  | 20*  | 17*  | 20*  |
|                   | 1000 FPM              | 61*   | 46* | 36* | 25* | 21*  | 18*  | 20*  | 24*  |
|                   | 2000 FPM              | 77    | 65  | 55  | 48  | 41   | 37   | 38   | 37   |
|                   | 2500 FPM              | 83    | 70  | 61  | 55  | 48   | 43   | 44   | 45   |
|                   | 3000 FPM              | 87    | 76  | 66  | 61  | 54   | 49   | 49   | 51   |

Note: Sound power level data denoted with an asterisk (\*) has reached ambient levels in the test room or is determined by instrument limitations. Actual levels are less than or equal to the levels indicated.

This data was derived by testing in accordance with ASTM E 477 and the ADC test Code FD 72-R1.

### Radiated Noise Reduction for 10' Length

| MODEL #           | CENTER FREQUENCY (HZ) | FLOW |     |     |     |      |      |      |      |
|-------------------|-----------------------|------|-----|-----|-----|------|------|------|------|
|                   |                       | 63   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 6" Diameter Flex  | 0 FPM                 | 1    | 2   | 3   | 5   | 8    | 10   | 12   | 17   |
|                   | 2500 FPM              | 2    | 4   | 5   | 6   | 8    | 10   | 12   | 17   |
| 8" Diameter Flex  | 0 FPM                 | 2    | 2   | 3   | 5   | 7    | 8    | 12   | 17   |
|                   | 2500 FPM              | 3    | 2   | 4   | 5   | 7    | 9    | 11   | 17   |
| 12" Diameter Flex | 0 FPM                 | 1    | 2   | 3   | 4   | 6    | 8    | 11   | 17   |
|                   | 2500 FPM              | 2    | 4   | 4   | 5   | 6    | 8    | 11   | 17   |

### WARNING!!!

Textile glass fibers are used to manufacture this fiberglass insulation product. Handling, installing, or removing the product may result in some fiberglass contact. Users of this product are therefore advised to wear appropriate personal protective equipment so as not to experience skin, eye, or respiratory irritation. Gloves and eye protection, long sleeved, loose fitting clothing are recommended when installing or otherwise handling the product. Avoid breathing fiberglass dust and avoid contact with skin or eyes. A NIOSH approved (N95 or higher) disposable or reusable dust respirator properly fitted is recommended whenever the product is handled. Respiratory protection is mandatory when the dust levels in the workplace exceed OSHA permissible exposure limits or if worker irritation occurs. Work clothes should be washed separately and the washer rinsed after use.

### FIRST AID MEASURES

If dust gets into eyes flush eyes with water to remove the fiber dust. If symptoms persist seek medical attention. Fibers can be removed by washing the skin with soap and warm water after handling this product. Further product safety information is available from your employer. The Material Safety Data Sheet is available from your distributor, directly from Quietflex or on the Quietflex website [www.quietflex.com](http://www.quietflex.com)

The physical and chemical properties of Quietflex Semi-Cured Blanket represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. The data is supplied as a technical service and is subject to change without notice. Check with Quietflex Manufacturing Company, L.P. to obtain current information.



QUALITY MANAGEMENT SYSTEM  
CERTIFIED BY DNV  
ISO 9001:2000  
Houston Facility



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