QF Quiet Flow Louvres allow the passage of air through the facade of a structure while reducing noise levels.

An attractive and very effective design, proven over time. Made from high quality, durable materials.

- Wide range of standard sizes or custom made.
- Galvanized sheet steel construction standard or can be made in aluminum or stainless steel.
- Powder-coated or epoxy paint finishes, available in a range of colours.
- Melinex lining and vermin mesh guards available.
- Low profile blades to prevent line of sight.
- QF600 is weather protected on both sides for exterior screening applications.
QF Quiet Flow Louvres come in two depths; QF300 - 300mm and QF600 - 600mm. Greater depth increases acoustic performance and pressure loss.

Available in a single unit up to sizes of 2400mm wide by 2400mm high. Larger openings can be accommodated by multiple units. A maximum height of 3600mm is recommended. Custom sizes can be made.

Other models available; QFS with horizontal rear splitters and the economical QFT with broad blades, providing increased acoustic performance and lower pressure loss. See specific brochures for more information.

**QF ACOUSTIC PERFORMANCE (dB)**

<table>
<thead>
<tr>
<th>Model</th>
<th>Octave Band Centre Frequency (Hz)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>63</td>
</tr>
<tr>
<td>QF300</td>
<td>TL</td>
</tr>
<tr>
<td></td>
<td>SRI</td>
</tr>
<tr>
<td>QF600</td>
<td>TL</td>
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<td></td>
<td>SRI</td>
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</tbody>
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The acoustic performance figures are transmission loss (TL) or sound transmission loss (SRI) as defined by ISO140-3:1995: Acoustics – Measurement of sound insulation in buildings and of building elements – Part 3: Laboratory measurements of airborne sound insulation of building elements.

**PRESSURE LOSS**

The pressure loss through the louvre is based on the Effective Face Velocity (EFV) and is calculated with the following formula.

\[ EFV (m/s) = \frac{\text{Airflow (m}^3/\text{s)}}{\text{Width (m) x (Height (m) - 0.300)}} \]

Use the graph below and the EFV to find the pressure loss through the louvre.

The selection of an inlet louvre with face velocity greater than 2m/s may compromise weather protection.
### CONSTRUCTION

QF Quiet Flow Acoustic Louvres are constructed from pre-galvanised sheet steel components throughout. Optional powdercoat finish is available to the colour of your choice. Aluminium or stainless steel construction is also available.

Specially designed low profile blades are set to a pitch of 150mm and at an angle to prevent line of sight through the louvre.

Louvres can be supplied with vermin mesh guards fixed to the inside face.

### INSTALLATION

In most applications, the louvre is installed after the construction of walls. A 10mm clearance is to be left on all sides. Flush mounting with the building exterior provides the best appearance and acoustic performance.

All perimeter gaps are to be packed and sealed with a suitable sealant. A thin bead of sealant is to be applied between mating faces of multiple louvre installations.

A range of mullions, support frames and flashing details are available to allow installation in various facades.

We offer installation, testing, monitoring and maintenance services.

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