

QFT Quiet Flow Acoustic Louvres

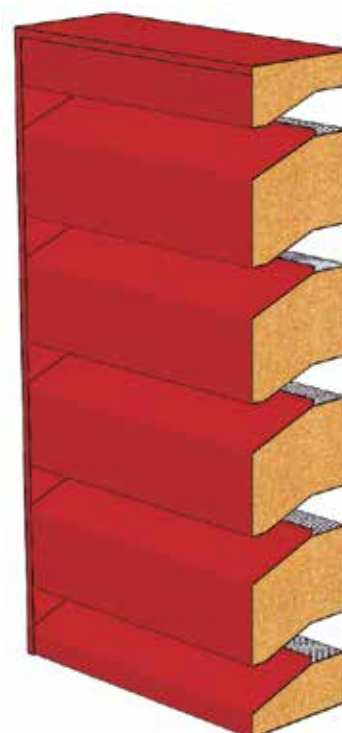
Broad blade design for economy



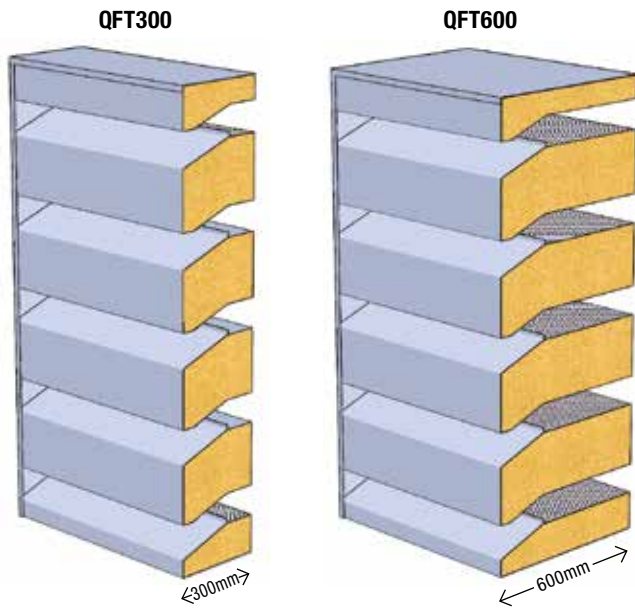
QFT Quiet Flow Louvres allow the passage of air through the facade of a structure while reducing noise levels.

QFT Quiet Flow Louvres are a variant of the QF models with broad blades for enhanced acoustic performance and lower pressure loss. Made from high quality, durable materials.

- An economical option.
- 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.
- Broad profile blades.



QFT Quiet Flow Louvres come in two depths; QFT300 - 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; QF are classic louvres for standard acoustic performance and pressure loss and QFS with horizontal rear splitters, providing increased acoustic performance and lower pressure loss. See specific brochures for more information.

QFT ACOUSTIC PERFORMANCE (dB)

Model	Octave Band Centre Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
QFT300	TL	3	6	9	11	15	16	15	12
	SRI	9	12	15	17	21	22	21	18
QFT600	TL	5	9	15	21	28	28	25	20
	SRI	11	15	21	27	34	34	31	26

The acoustic performance figures are transmission loss (TL) or sound reduction index (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.

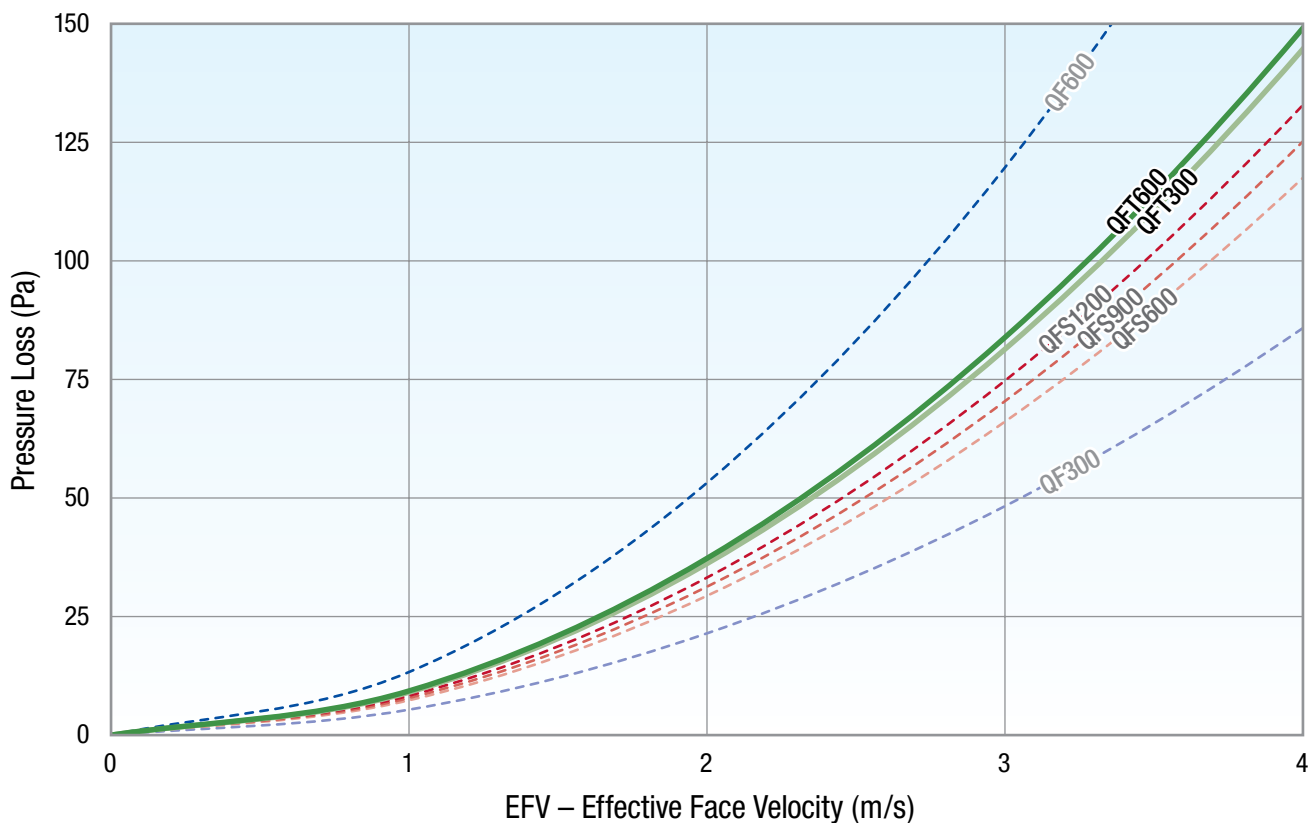
PRESSURE LOSS

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

$$EFV \text{ (m/s)} = \frac{\text{Airflow (m}^3\text{/s)}}{\text{Width (m)} \times \{\text{Height (m)} - 0.300\}}$$

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.



QFT MASS (kg)								
Model	Height (mm)	Width (mm)						
		600	900	1200	1500	1800	2100	2400
QFT300	300	12	17	22	26	31	36	40
	600	21	29	36	44	51	59	67
	900	31	41	51	61	71	83	93
	1200	40	53	65	78	91	106	119
	1500	49	65	80	96	111	129	145
	1800	58	77	95	113	131	153	171
	2100	68	88	109	130	151	176	197
	2400	77	100	124	148	171	200	223
QFT600	300	21	29	37	45	54	62	70
	600	37	49	61	74	86	99	112
	900	53	69	85	102	118	137	154
	1200	68	89	109	130	150	175	196
	1500	84	109	133	158	183	213	238
	1800	99	128	157	186	215	251	280
	2100	115	148	181	214	247	289	322
	2400	131	168	205	242	279	326	363



CONSTRUCTION

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

QFT Quiet Flow Acoustic Louvres feature thicker blades than QF and QFS models. Specially designed low profile blades are set to a pitch of 300mm and at an angle.

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.

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

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.

We offer installation, testing, monitoring and maintenance services.



Got a question? Call us to discuss with an experienced engineer:

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Or visit our website for more information:

www.ncsacoustics.co.nz

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