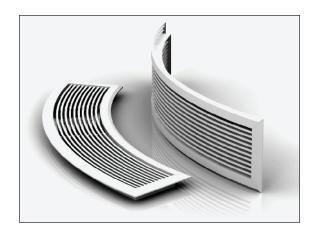
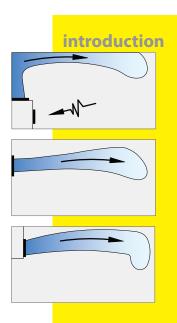
CURVED LINEAR BAR GRILLES



The F1B and F1N type Linear grilles are both available in curved sections. These may be either ceiling/cill curved or sidewall curved units.

Grilles can be supplied in modular units or, for continuous applications, in single sections up to 2.5m.



F1B - F1N (Note: only available with 0 ° defection blades) **C**

Dampers in the plenum box or duct.

control

type

For all additional available options, fixings, finishes and plenums see document $\boldsymbol{\mathsf{PART}}\;\boldsymbol{\mathsf{L}}$

options

Standard fixing method is by countersunk screw through the flange - SC

fixings

Standard finish is powder coated - PC

finish

Linear grilles are available in standard heights ranging from 40 mm up to 600 mm and in single section lengths of up to 2.5m, depending on the height.

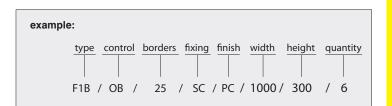
sizes

Note that grille heights less than 50 mm cannot be fitted with OB dampers.

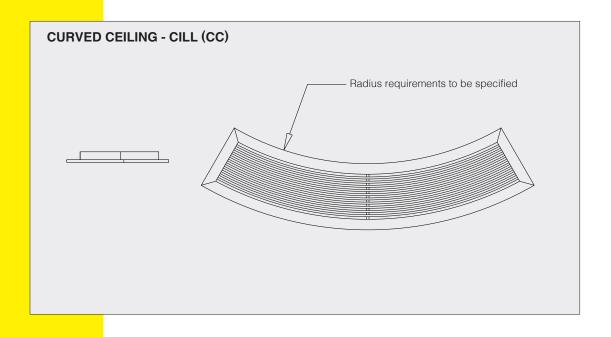
flange

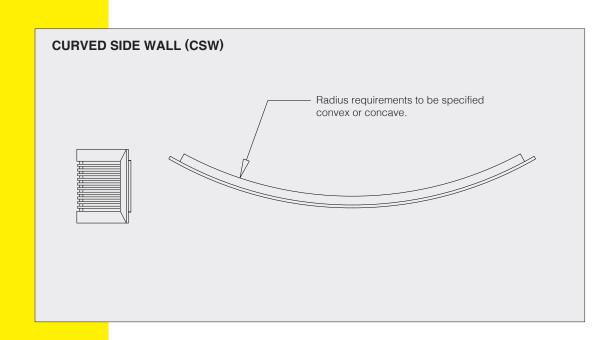
Flange size 25mm square edge.

ordering details

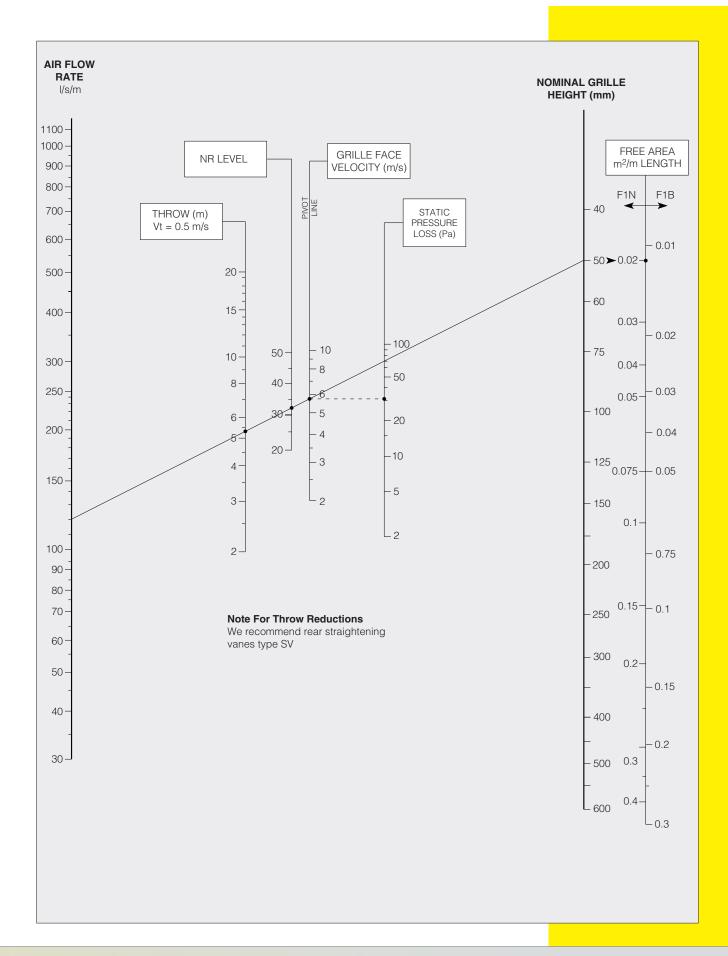


DIMENSIONS





SELECTION NOMOGRAM



BASIS OF DATA

Throw data is for a 1.2m sidewall grille positioned within 250mm of a ceiling surface and is based on a terminal velocity (Vt) of 0.5m/s and a cooling differential of 10°C. For mounting distances greater than this reduce the throws by a factor of 0.7.

Additional factors can be applied for other temperature differentials. Acoustic data is presented in terms of NR levels based on a room absorption factor of 8dB.

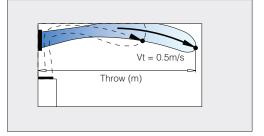
note

NOMOGRAM DATA IS BASED
ON FIB AND F15B GRILLE
TYPES. FOR FIN, F15N
AND F40N GRILLES, THE
FOLLOWING CORRECTION
FACTORS SHOULD BE
APPLIED

	F1N, F15N	F40N
THROW (m)	x0.9	x0.75
NR LEVEL	-3	0
FACE VELOCITY	x0.85	x0.85
PRESSURE LOSS	x0.8	0

correction factors

CORRECTIONS FOR LATERAL JET SPREAD 30° 45° THROW FACTOR 0.75 0.55 NR ADDITION +4 +8 Ps FACTOR 1.25 1.5



CORRECTION FACTORS FOR GRILLE LENGTHS				
LENGTH (m)	0.5	2.0	2.5	3.0+
THROW CORRECTION	0.9	1.0	1.1	1.1
NR CORRECTION	-3	+4	+3	+5

TEMPERATURE CORRECTION FACTORS				
DIFFERENTIAL TEMPERATURE	0°C	+10°C		
SIDEWALL THROW FACTOR	1.1	1.15		
CILL THROW FACTOR	1.1	1.2		

exhaust

EXHAUST APPLICATIONS				
FOR EXHAUST GRILLES, APPLY THE FOLLOWING CORRECTION FACTORS TO THE SUPPLY GRILLE DATA.		F1B / F15B	F1N / F15N	F40N
	Pse	Ps x 1.3	Ps x 1.2	Ps x 1.3
	NRe	NR + 5	NR + 7	NR + 7

example

SELECTION EXAMPLE				
1200mm WIDE SUPPLY	GRILL TYPE	THROW (m)	NR	Ps (Pa)
GRILLE 50mm HIGH, PASSING AN AIR FLOW	F1B, F15B	5.4	32	32
RATE OF 120I/s/m	F1N, F15N	4.9	29	26
(144 l/s total)	F40N	4.0	32	32
F1N FREE AREA = 1.2 × 0.02 = 0.024m ² F1B FREE AREA = 1.2 × 0.012 = 0.014m ²				