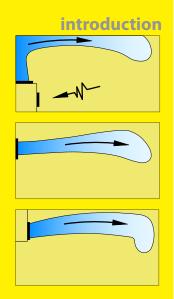
#### **LINEAR BAR GRILLES**



The FB and FN type Linear grille offers a wide range of blade formats to meet both architectural and system requirements and is ideally suited to sidewall, bulkhead or cill applications.

Grilles can be supplied in modular units or, for continuous applications, in single sections up to 3m. All core types are optionally available as removable items, or alternatively, can be supplied



without frames. Hinged core sections can also be supplied to provide access to concealed control valves, thermostats or switches.

For continuous applications, make-up sections can be manufactured to suit internal or external corner details. Grilles can also be curved to suit architectural features.

type

FB-FN

control

Opposed blade volume control damper - OB Adjustable vertical rear blades - SV

options

For all additional available options, border styles, fixings, finishes and plenums see document  ${\bf PART}\;{\bf L}$ 

fixings

Standard fixing method is by countersunk screw through the flange - SC Recommended secret fixing method is by removable core - RC

finish

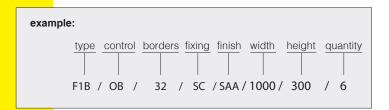
Standard finish is satin anodised aluminium - SAA

sizes

Linear grilles are available in standard heights ranging from 40 mm up to 600 mm and in single section lengths of up to 3m, depending on the height.

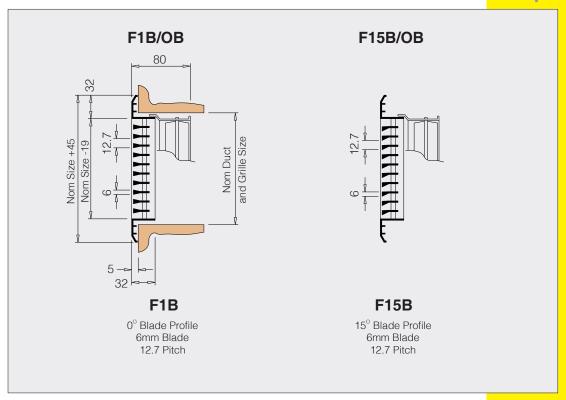
Note that grille heights less than 50 mm cannot be fitted with OB dampers.

ordering details

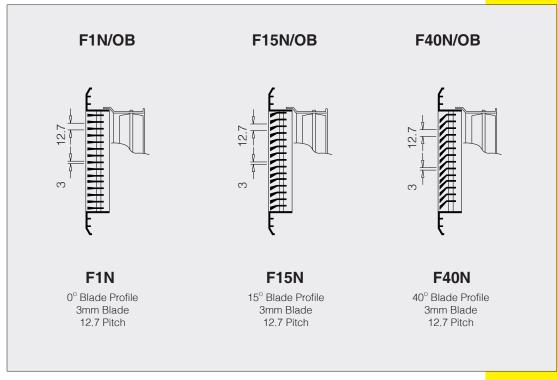


#### **DIMENSIONS**

6mm blade 12.7 pitch

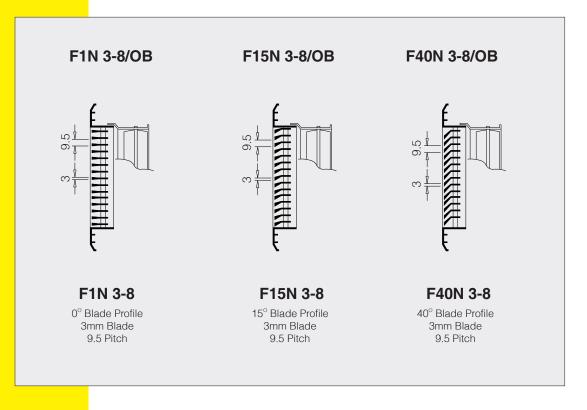


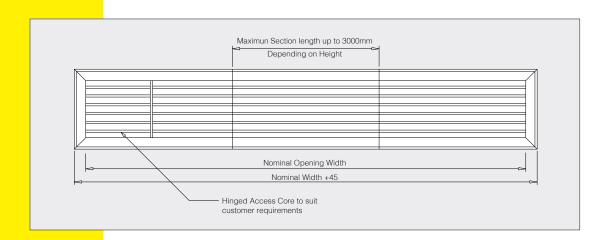
3mm blade 12.7 pitch



#### **DIMENSIONS**

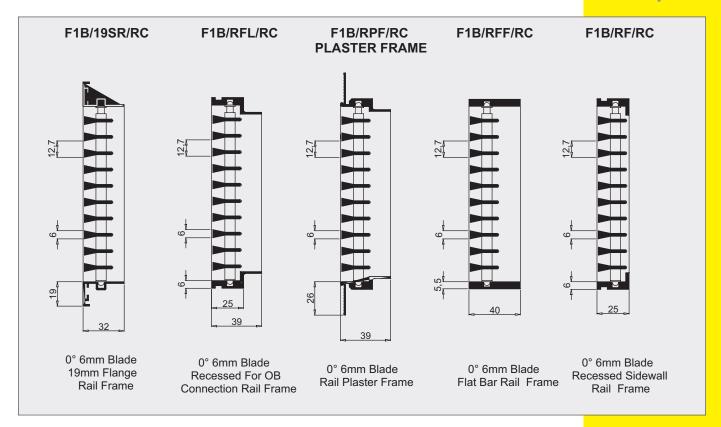
#### 9.5mm pitch 3mm blade



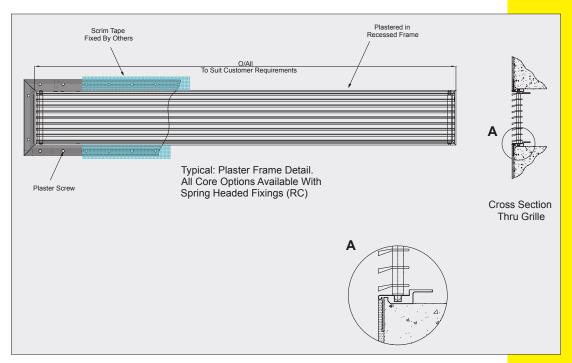


#### **DIMENSIONS**

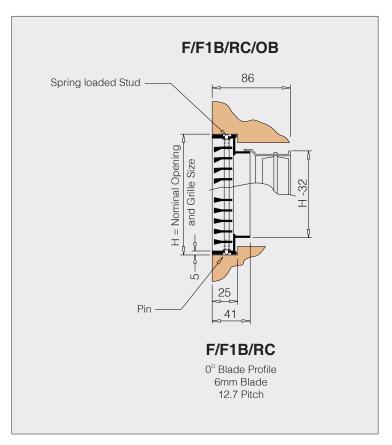
recessed frame options



#### **All Core Options Available**

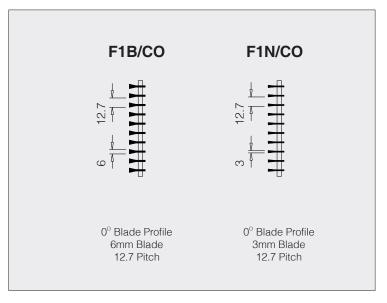


#### recessed frame



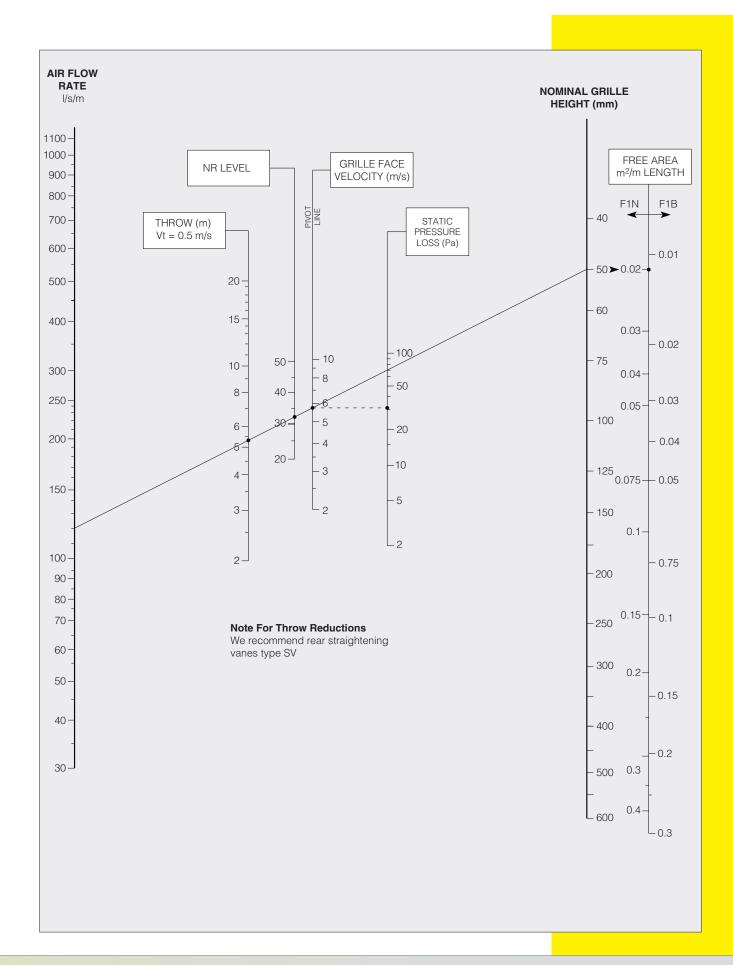
**F/** Recessed Frame. All core types. Spring loaded removable core fixings. Ideal for sidewall applications.

#### core only



All blade types available as Core Only: **CO**Available with spring loaded stud: **RC** 

#### **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.

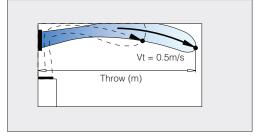
#### note

NOMOGRAMDATAISBASED
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	
		REA = 1.2 x 0.02 REA = 1.2 x 0.01			