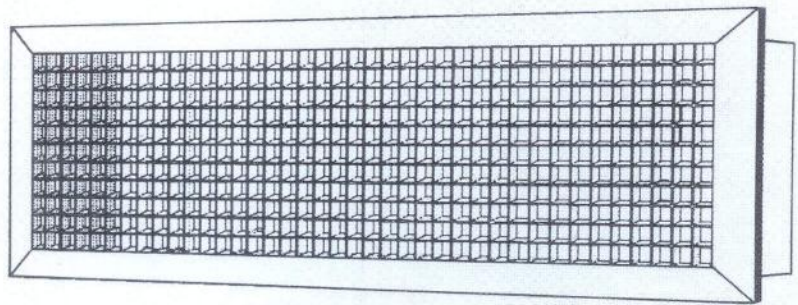
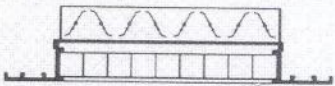
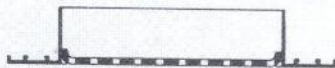


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CHAPTER - 06 EGG - CRATE / PERFORTED GRILLES



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EGG CRATE / PERFORATED GRILLES

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SILENT FEATURES

"AIRTRON" Egg Crate Grilles and Perforated core Grilles are manufactured to highest Standards and designed for both Supply and Return Air applications with the following attributes.

- #.....Rigid and strong construction provides noiseless performance.
- #.....Grilles with Opposed Blade Volume Control Damper and Filter gives positive and clean air control.
- #.....Frame and aluminium core are manufactured from high quality Extruded aluminium and sheets respectively.
- #.....Perforated core sheet is of high quality mild steel and Powder coated finish.
- #.....Counter sunk screw holes for flush heads with border frame.
- #.....Grilles with Polystyrene Egg Crate Core is available in two Standard sizes only, i.e. 600mmx600mm and 600mmx1200mm

AVAILABLE STANDARD SIZES

L	200	300	400	500	600	800	1000	1200
W	75	100	150	200	300	400	500	

"AIRTRON" External louvres are also available in 50mm increments.

AVAILABLE STANDARD TYPES & MODELS

MODEL	NOMENCLATURE	ACCESSORIES
GEC	"GEC"	Standard Grille
	"B"	Bird Screen
	"S"	Insect Screen
	"V"	Volume Control Damper
	"F"	12.5mm/25mm Filter
	"FV"	Combine Filter and Volume Control Damper
	"GP"	Perforated Core



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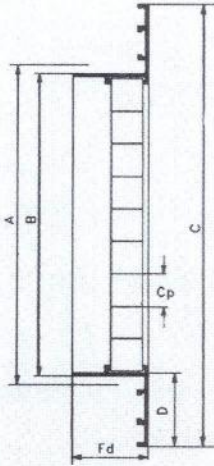
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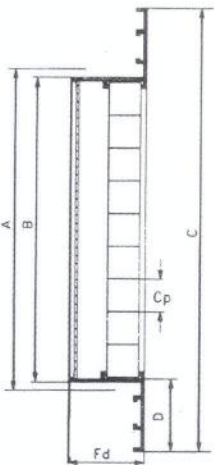
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DIMENSIONAL DETAILS

MODEL: GEC

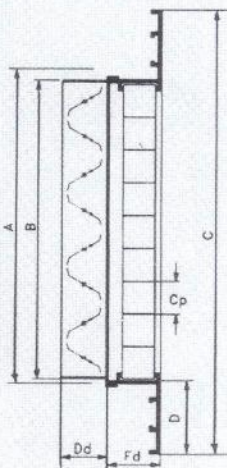
"AIRTRON" Models GEC is a return or exhaust air grille having EGG CRATE core for maximum free area. The EGG CRATE square core pattern is available in Aluminium and Polystyrene construction.

MODEL: GEC - B & GEC - S

"AIRTRON" Model GEC-B & GEC-S are Return or Exhaust air grilles same as GEC model but with Bird Screen or Insect Screen respectively as accessory.

CONSTRUCTIONAL DETAILS

A	Nominal size (L x W)
B	Neck size (L-10) x (W-10)
C	Over all size (B+60)
D	Frame width = 30mm
Cp	Egg Crate Core pitch = 12.5mm/14.5mm
Fd	frame depth = 25mm
Dd	damper depth = 42mm

MODEL: GEC - V

"AIRTRON" Models GEC-V is a Supply/Return air grille same as GEC model but with an Opposed Blade Volume Control Damper which can be operated from the face with a key or screw driver.

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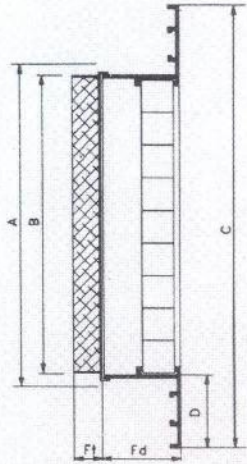
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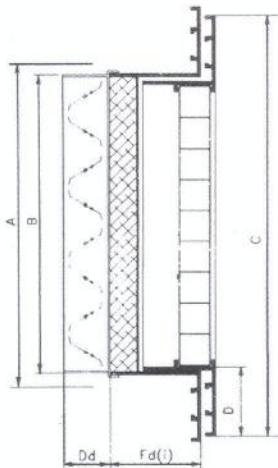
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DIMENSIONAL DETAILS

MODEL: GEC - F

"AIRTRON" Models GEC-F is a Supply or Return air grille same as GEC model but with a Washable Aluminium filter.

The Filter thickness available is 12.5mm. & 25mm also available in Double Frame.

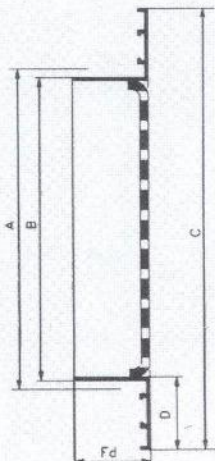
MODEL: GEC - FV

"AIRTRON" Models GEC-F is a Supply or Return air grille with double frame and a Opposed Blade Volume Control Damper.

the Double Frame fixed by a screwed knob enables easy access to filter and Volume Control Damper.

CONSTRUCTIONAL DETAILS

A	Nominal size (L x W)
B	Neck size (L-10) x (W-10)
C	Over all size (B+60)
D	Frame width = 30mm
Cp	Egg Crate Core pitch = 12.5mm/14.5mm
Fd	frame depth = 25mm
Fd(i)	Internal frame depth=50mm
Dd	damper depth = 42mm

MODEL: GP

"AIRTRON" Models GP is a Supply or Return air grille with perforated M.S. sheet core having 3.3mm dia perforation at 5mm pitch.

Also available for supply air application model GP-V with opposed blade volume control damper.



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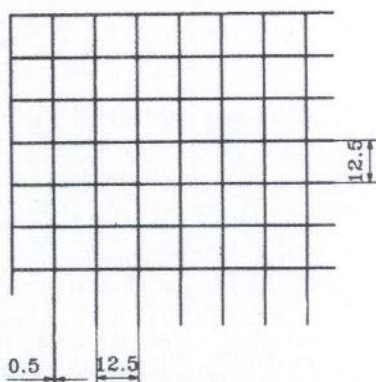
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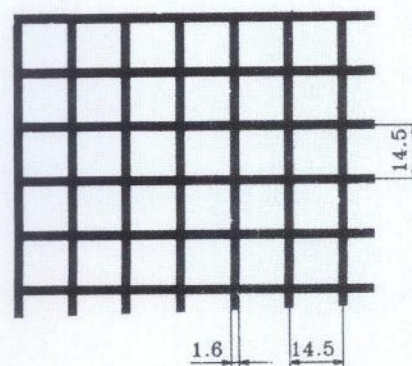
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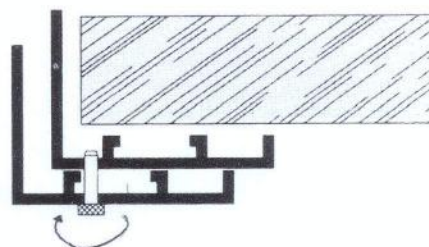
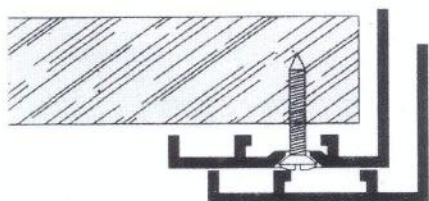
CORE STYLES & FIXING DETAILS



Aluminium Egg Crate Core suffix "A"
size 12.5mm x 12.5mm x 0.5mm
free area = 90%



Polystyrene Egg Crate Core suffix "P"
size 14.5mm x 14.5mm x 1.6mm
free area = 80%



FIXING DETAILS

#.....Counter sunk screw fixing type "S" is standard and recommended for side wall or sill fixing.

#.....Dual frame mounted on hinges and fixed by screwed knob fixing type "K"



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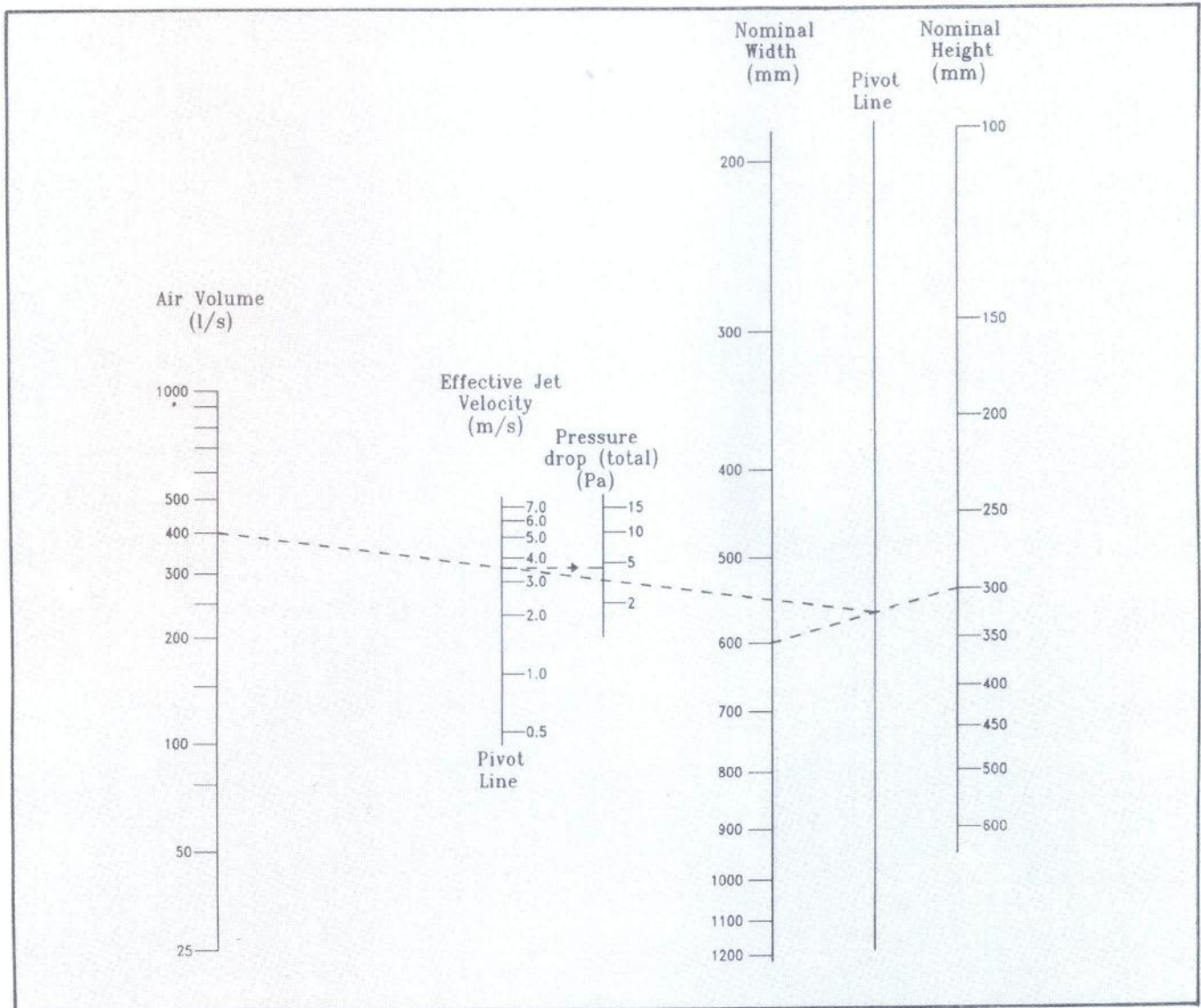
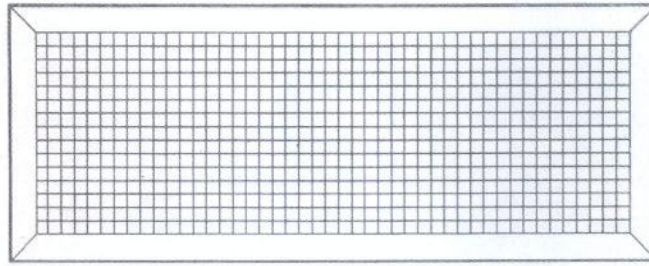
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QUICK SELECTION



By limiting effective jet velocity to 7 m/s all grille sizes shown meet NC 35 assuming 8 db room attenuation (Selection based without damper or damper fully open)



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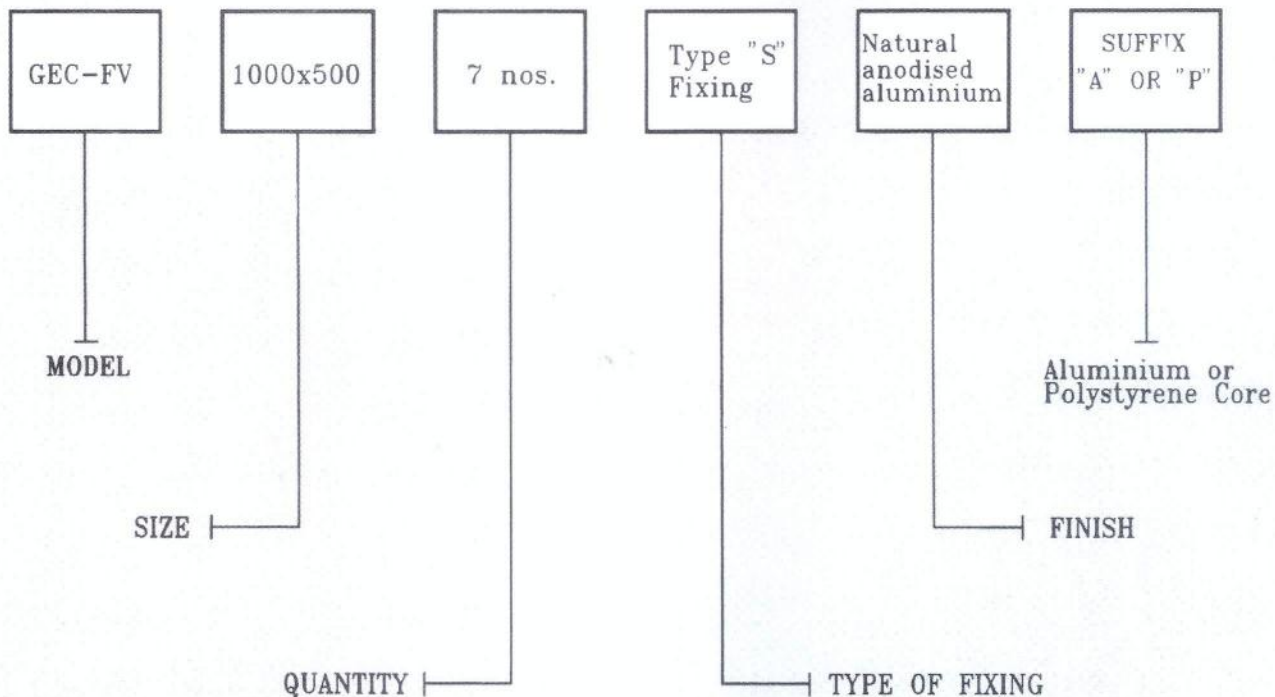
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ORDERING PROCEDURES

AVAILABLE FINISH

- *.....Powder Coated colour Finish
- *.....Natural Anodised Aluminium
- *.....Mill finish Aluminium
- *.....Bronze Anodised

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