

LINEAR BAR GRILLE



The Polyaire Linear Bar Grilles are suitable for all supply or return ceiling, sidewall, floor and cill applications providing both functionality and an aesthetically pleasing result.

- The Linear Bar Grilles are made from high quality extruded aluminium.
- Available with either 0°, 15° or 45° blades pitched
- Free Area: Approx 90%
- Fixed core, hinged and removable core available.
- Can be supplied with or without damper.
- Can be supplied with or without fixing holes.
- Standard finish: Mill finish
Also available powder coated in any colour to suit your requirements.

Design Features

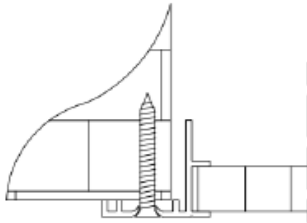
Material	Extruded aluminium
Frame	Standard: 30FE - 30mm flat Optional: 31F - 31mm flat TF - Tray frame SML - Surface mounted large PLG - Plaster-in
Sizes	Minimum: 100mm x 50mm Maximum: 2900mm x 2900mm
Fixings	Standard: None Optional: Countersunk fixing holes, Push-in clip method, Concealed fixings
Finish	Standard: Mill finish Optional: Powder Coated in RAL colours or primed
Free Area	Approx 90%

POLYAIRE UK

Units 3 & 4, Torridge Close,
Telford Way Business Park,
Kettering, Northants,
ENGLAND, NN16 8PY
Telephone: 01536 519922
sales@polyaire.co.uk

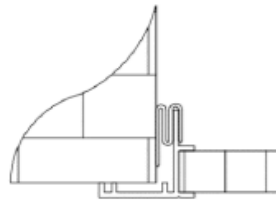
Countersunk fixing holes

For extremely simple fitting, countersunk fixing holes can be punched into the outer frame. Self-tapping screws in the same finish as the grille are provided as standard.



Push-in clip method

These sprung clips are compressed when the grille is pushed into place. The outward force provided then holds the grille securely in place. This fixing method is not suitable for use in ceilings.

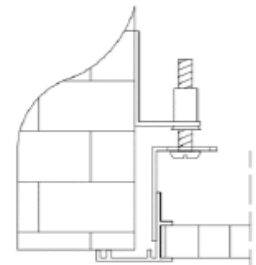


Concealed fixings

Recently redesigned, concealed fixings comprise two small lengths of aluminium angle, one with a punched slot, the other with a factory fitted nutsert.

The punched bracket should be fitted to the grille neck, and the bracket with nutsert fixed to the inside of the plenum, duct or builderswork opening.

Factory supplied bolts can then be used to pull the grille securely into place.



Technical Drawings

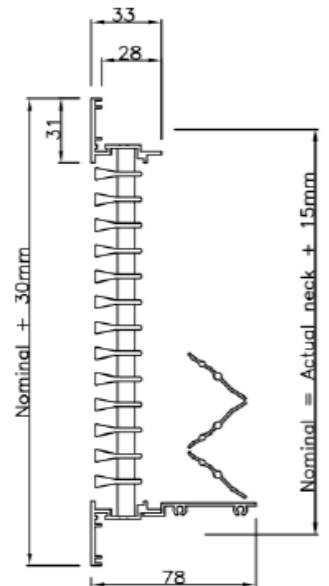
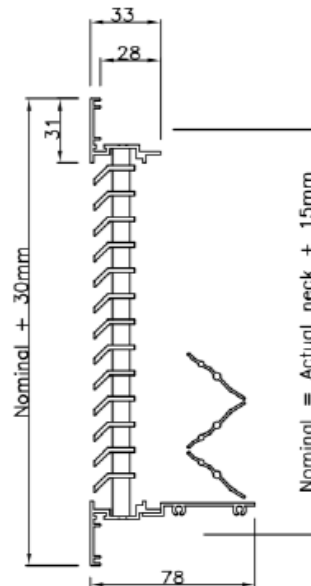
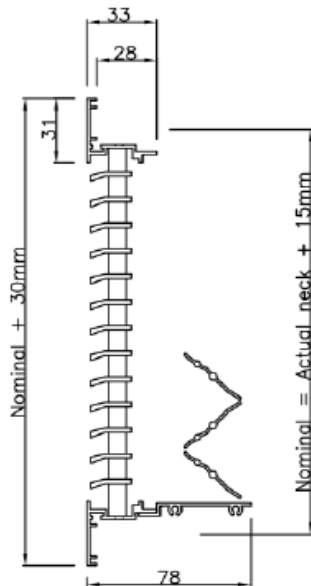
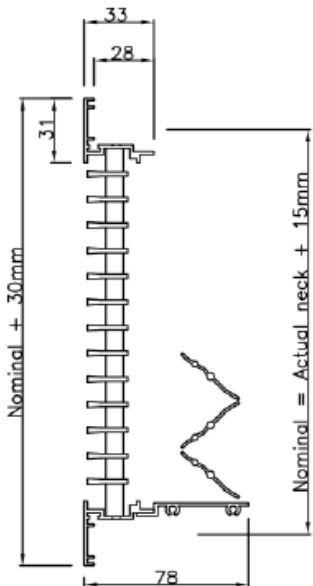
Grilles only

LG0 - 3 - 12.5 - 31F

LG15 - 12.5 - 31F

LG45 - 12.5 - 31F

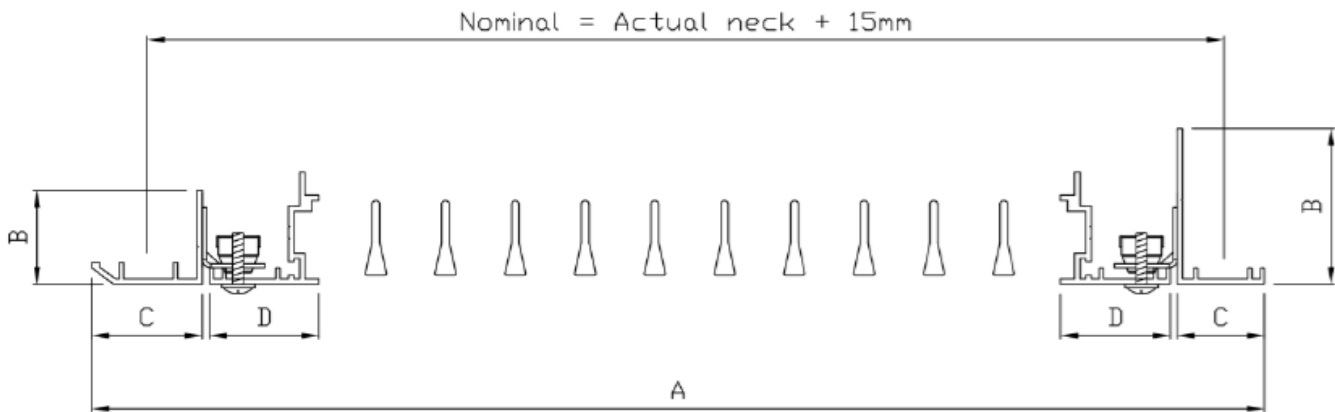
LG0 - 6 - 12.5 - 31F



Removable Core – Twin Frame

Replacing quarter turn brackets, cage nut brackets are now standard with removable core grilles. Comprising a steel bracket with fitted floating cage nut, allowing easier removal and replacement of the removable core.

The inner removable frame holds the M4 flanged head machine screw, for removal with a pozi screwdriver, as standard.
Outer frame will be either 32mm frame or 25F 25mm flat, inner frame will be 31F 31mm flat.



Removable Core -Tube Clips

Sprung tube clips are mounted on mullions running behind the blade pack.

To install the core, align the blade tubes with the clips and push the core into place.

32mm frame or 25F 25mm flat frames only.

For wall mounting use only.
Not recommended for use in ceilings.



Removable Core- Quick Release

Quick release removable core grilles have spring loaded pins in one end of the core tubes, with a locator pin at the other end.

While fitted the springs force the pins into locating holes in the frame, holding the core in place.

To remove the core, compress the springs, pulling the locator pins out of the holes, and pull the core away.

32mm frame or 25F 25mm flat frames only.

Safety cord fitted as standard.

Not available on grilles of nominal height less than

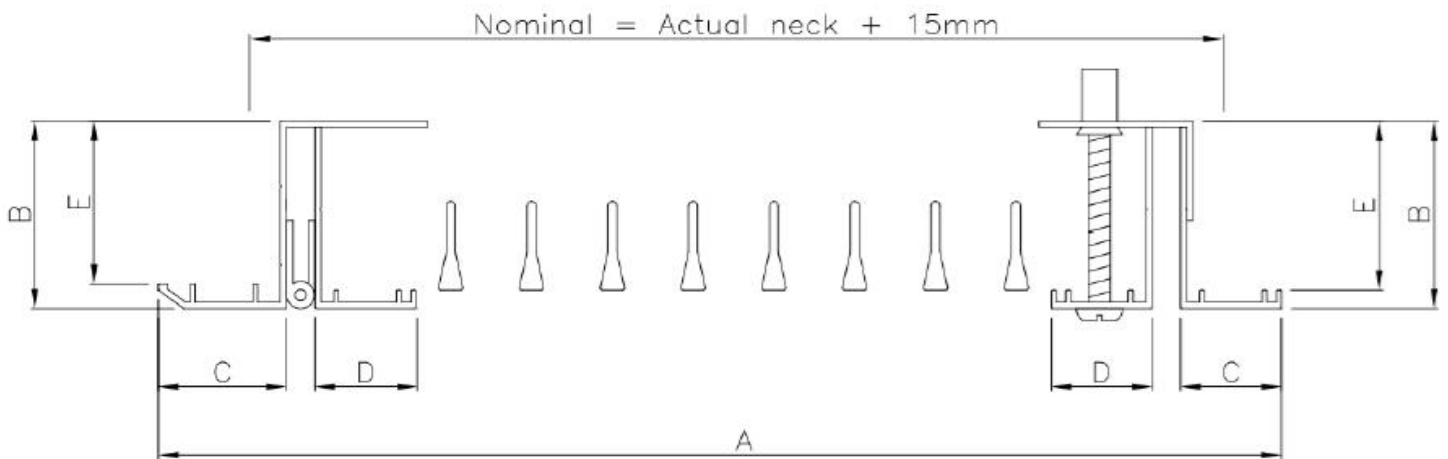


Hinged Core

Enabling the core to hinge outwards may be preferable to it being fully removable.

The full length piano hinge at one side is discreet, and gives minimal loss of core area.

The inner core is held in place by one or more M6 panhead bolts mating with nutserts mounted to a concealed rear frame extension.



Selection Data

Figures based on 1m wide LG0-3-12.5 fitted with OBD.

10°C cooling application with grille not more than 0.5m below ceiling.

For 6mm blade multiply throw and pressure by 1.2 and increase sound by 2db.

For 20mm pitch multiply throw and pressure by 0.8 and reduce sound by 2db.

For grilles without OBD multiply pressure by 0.9 and reduce sound power level by 2

