



AFRICA AIRCONDITIONING & INSULATION SYSTEMS

YOUR ONE STOP HVAC SUPPLIER

TECHNICAL CATALOGUE

Floor Grille

(TYPE FGS & FGT) Aluminium

FLOOR GRILLE



INTRODUCTION

These grills are manufactured from extruded aluminium sections with a single row of fixed blades. There are two options for the blades, one is a FGT straight discharge blade spaced at 15mm centers and the other is a FGS 15° offset discharge blade spaced at 15mm centers. The core of the floor grills can be fixed or removable and the

Due to the specific nature of the grill there is only 1 option with regards to the flange. The standard size is as per the drawings and dimensions below. The grills can be finished in natural anodized colour or powder coated to suit requirements where the colour is available. We also offer

wet spray to a specific colour however the cost on an individual basis is prohibitive. Opposed blade dampers can be fitted as an option. They are manufactured from extruded aluminium in a standard mill finish but we can have them painted black if required.

SELECTION

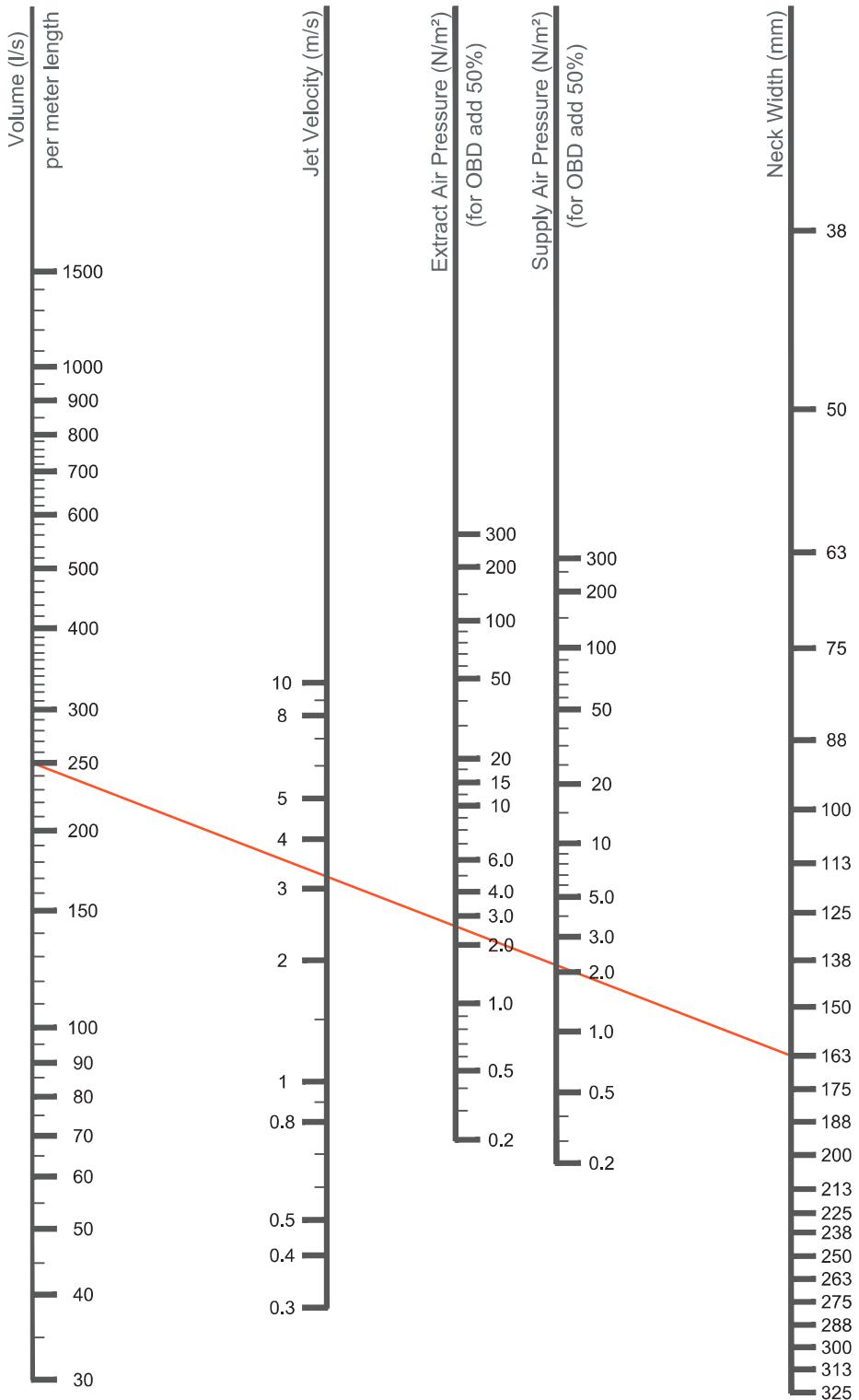
- These grills can be used for return / extract air as well as supply / fresh air purposes.
- Using the required air flow (l/s) as calculated and the jet air velocity (m/s), plot a straight line from the air flow (l/s) through the required jet air velocity until it intersects the line of the opening width. It is important to remember that the selection is based on 1 linear meter of the grill.
- From this line where it intersects with the relevant lines for pressure drop one can read off the pressure drop.

EXAMPLE

- The selection for a floor grill 0.25m³/s/m or 250 l/s/m at a jet velocity of 3.6m/s.
- Using the nomogram below, draw a straight line from the air volume 250 Vs through the required jet velocity of 3.6m/s until it intersects the Opening width selection line.
- The intersection is at around 165mm making this the required width per 1 meter of floor grille.
- From the points of intersection with the supply air pressure Of extract air pressure line we can see that the pressure drops would be 2.7 N/m² on the extract air selection and 2.2 N/m for a supply air grill selection.
- It is important to note that the air flow used to determine the jet velocity and pressure drops must always be done per linear meter of grill.

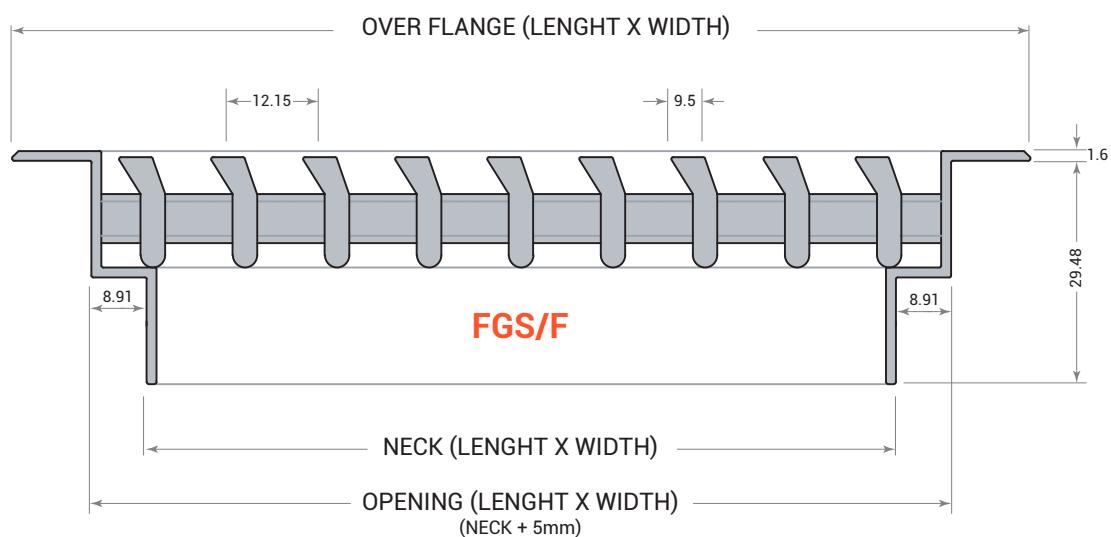
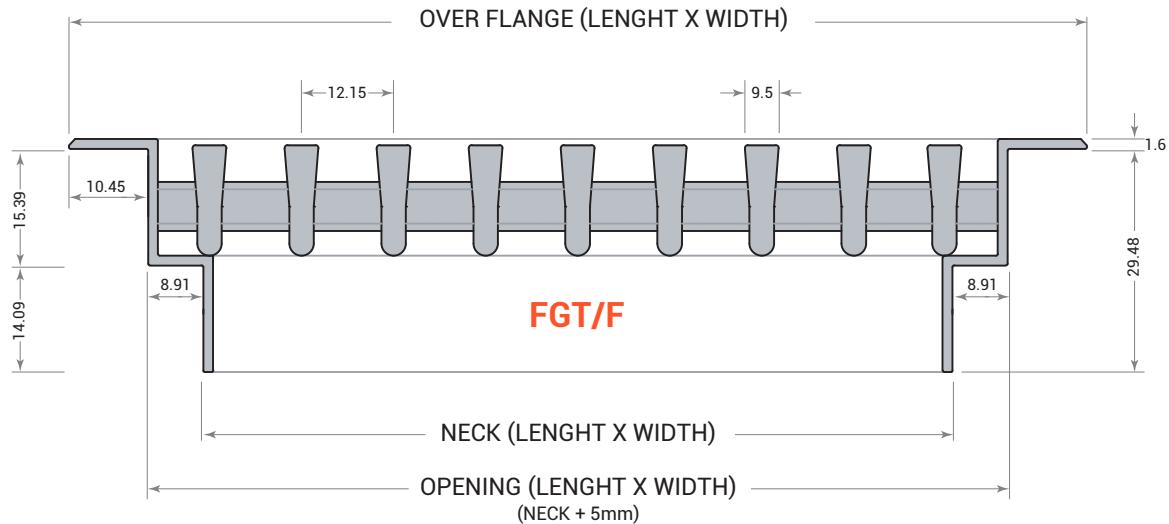


SELECTION DATA

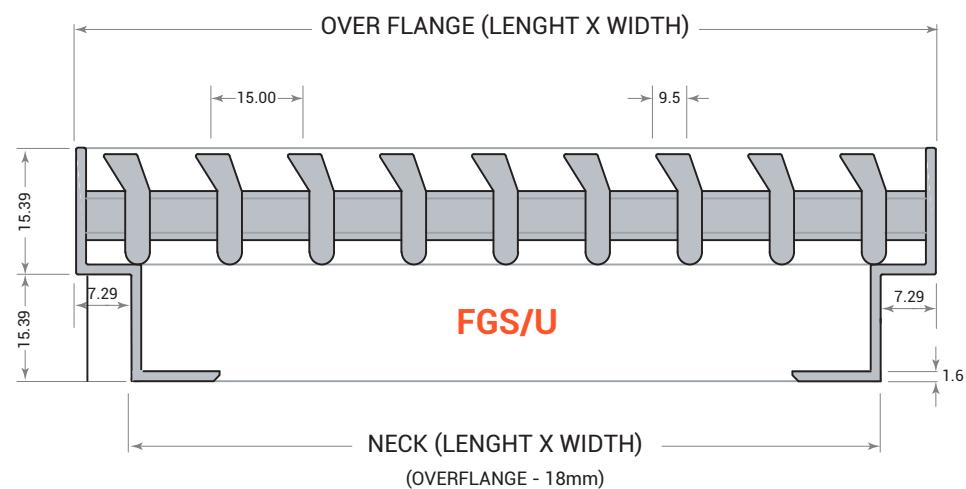
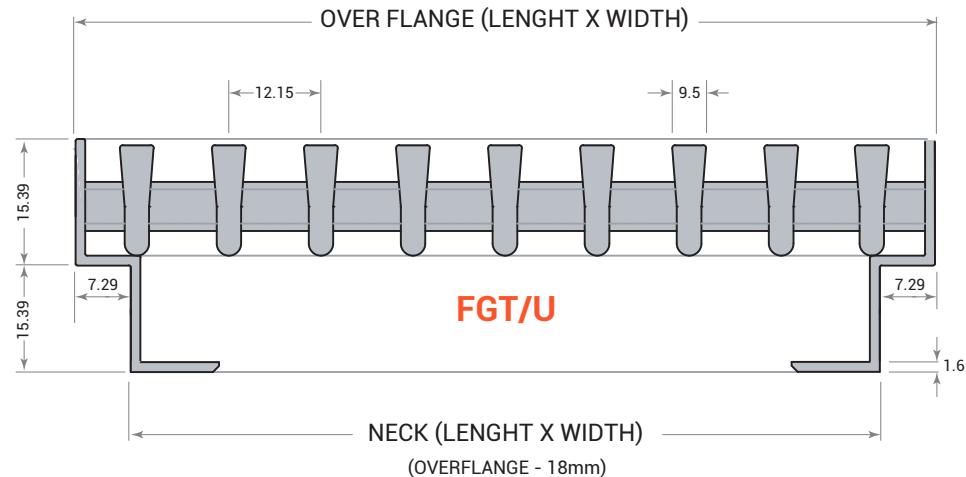


THE ABOVE NOMOGRAM IS BASED ON 1 LINEAR METER LENGTH OF GRILLE

CONSTRUCTION & DIMENSIONS (FLANGED)

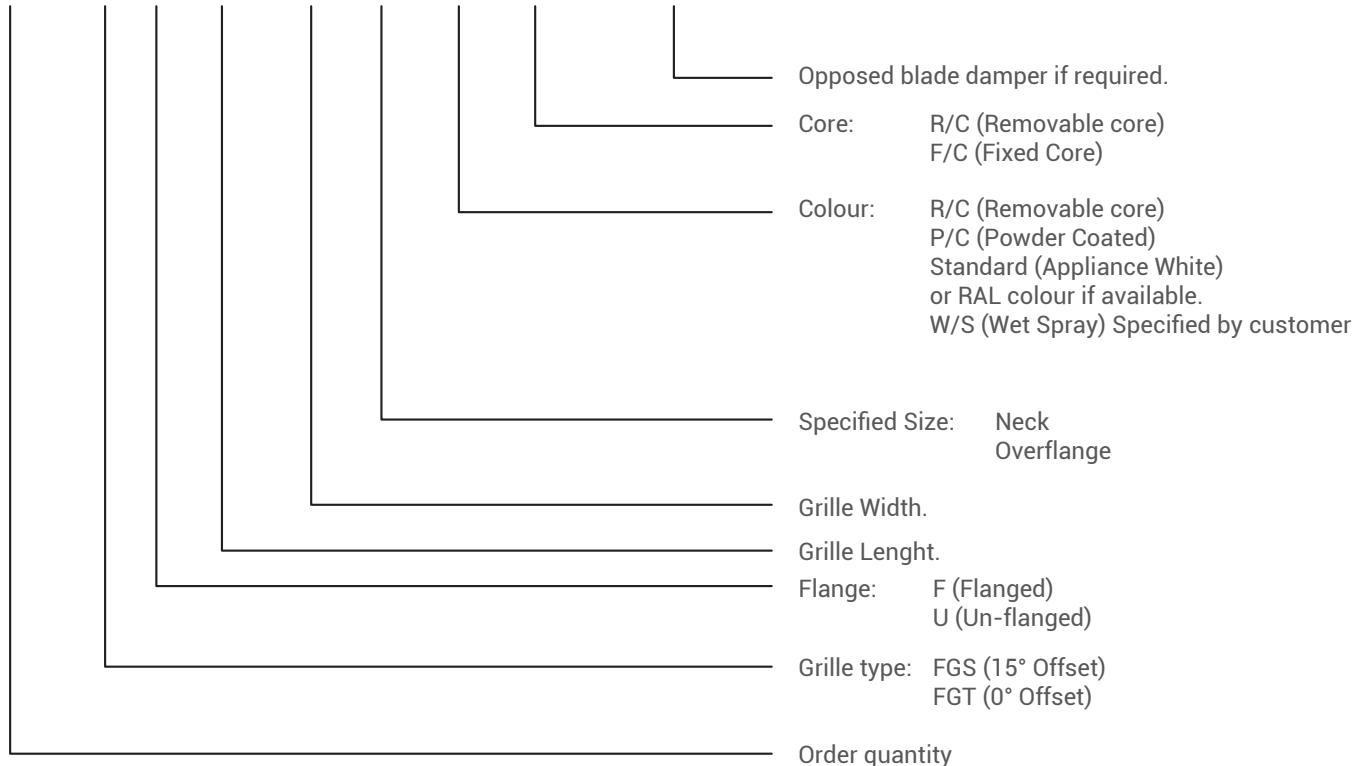


CONSTRUCTION & DIMENSIONS (UN-FLANGED)

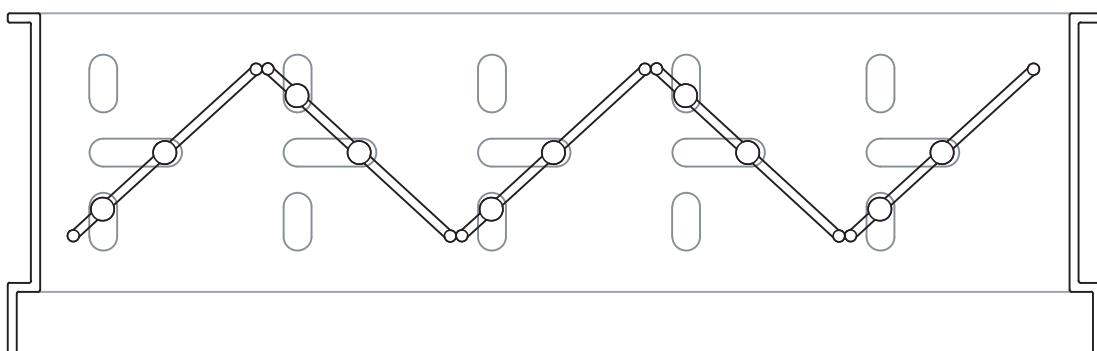


ORDERING FORMAT

1 of FGT/F - 375 x 350 neck, N/A, R/C with OBD



OPTIONAL OBD



NB : All dimensions for preparation of apertures must be confirmed with your sales representative prior to the work being done to avoid disappointments.

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