



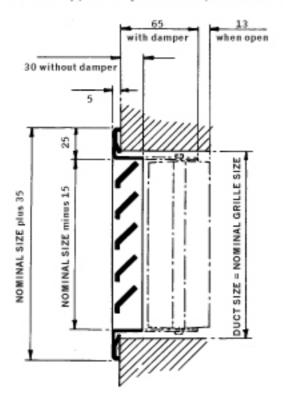
Return Air Grilles Type RIL & RPL

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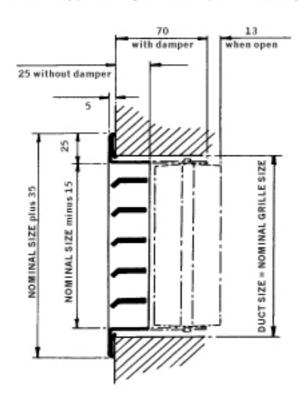
All products are manufactured in the UK at the above address



Grille Type RIL [with damper RIL/EF]



Grille Type RPL [with damper RPL/EF]



The Type RIL plastic faced ñ steel Air Return Grilles consist of a single set of horizontally fixed louvres arranged with an inclination of 45o at 25 mm centres. If placed below eye level the grille becomes sight proof.

The Type RPL is similar, using the same section of louvre at 25mm centres, but with the louvres arranged on a parallel plane.

Both types of grille utilising a spot welded casing in zinc coated steel, over which self-coloured plastic extruded sections are assembled.

Both are produced in standard sizes of 50mm size increments from 100x 100 upto and including 1200 x 600, but can be produced in any intermediate size both on length and height, mullions being provided to limit the maximum span of louvres to 600mm

When specifying a grille size the length dimension must be stated first, i.e. Length x Height, thereby ensuring the louvres will be horizontal when the grille is fitted.

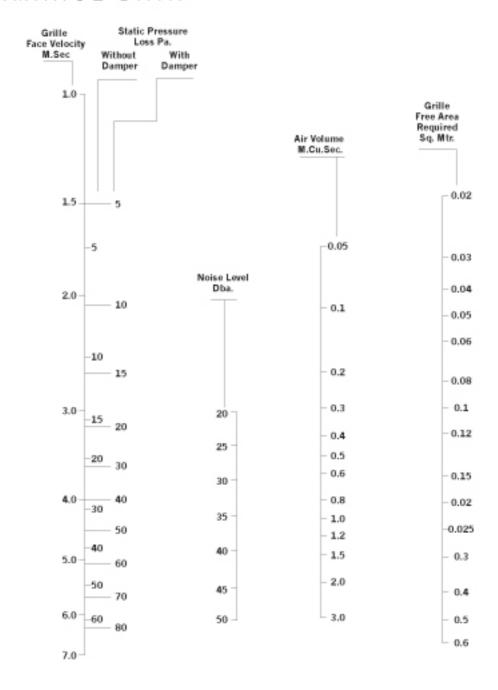
Standard Colours White Grey Cream Black.

Volume control dampers can be fitted behind each grille, should his be required 'EF' should be added to the grille designation chosen, type 'RIL' would become 'RIL/EF' when fitted with a damper.

Although possessing excellent non-corrosive properties in their standard form, this can be enhanced further when grilles are to be installed in corrosion causing atmospheres, by polyester powder coating the zinc coated frames prior to the assembly of the plastic extruded sections and the damper unit (if fitted) similarly treated with all moving parts manufactured in stainless steel.



PERFORMANCE DATA



Assuming the Air Volume and Face Velocity required are the known factors of the grille in question then from the above nomogram, place a rule intersecting these values and the Free Area of the grille required to fulfill those conditions can be read off

Having determined the Free Area it is necessary that the type of grille is known before this can be converted into its respective length and height dimensions.

References should be made to the sizing nomogram overleaf for the appropriate grille type selected.



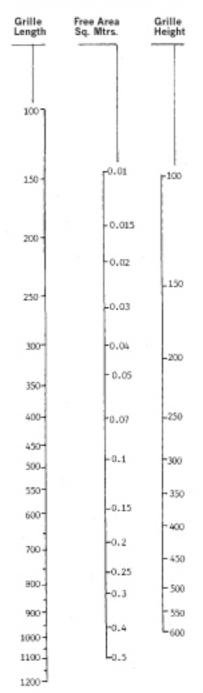
SIZE SELECTION

Grille Type RIL & RIL/EF AVERAGE FREE AREA 60%

Free Area Sq. Mtrs. Grille Grille Height Length 100-200 150 -0.01 0.015 200 150 0.02 250 0.03 -200300 0.04 0.05 250 350 400 0.07 300 450 0.1 500 350 550 400 600 0.15 450 2000 0.2 500 0.25 -550 800 -0.3 900 -0.4 1000 L0.45 1100

1200

Grille Types RPL & RPL/EF AVERAGE FREE AREA 72%



Having determined the Free Area of the grille to fulfill the conditions of volume and velocity from the Return Air Grille selection nomogram, this can be converted into its respective length and height dimensions by referring to the appropriate nomogram above.

The same Free Area value should be selected and by placing a rule so as to intersect this value and pivoting it about this point, a suitable grille length and height dimension can be read off.