

Hinged Bar Grilles

Description

For supply or return air, suitable for wall or ceiling mounting. Hinged Bar Grilles are available with or without filter and with a zero or 15 degree deflection.

Construction

From extruded aluminium sections. Hairline mitred joints mechanically held. Blades are spaced at 12.5mm as standard, however also available in 6mm, 9.1mm and 10.4mm upon request. Ceiling mounted hinged bar grilles are manufactured with screw in knobs for added safety.

Selection Data

Throws are based at Isothermal conditions to a terminal velocity of 0.5m/s and 0.25m/s respectively for a 1 meter active length with a room height of 2.7m. The diffuser is mounted flush in a side wall no further than 400mm down from the ceiling. Throw factors are for throws in one direction only. Noise Ratings are based on a room absorption level of 10db. For 15 Deg deflection add 20% to pressure drops and 3NC to the new value.



Airflow l/s Per m	Grille Size 1000 x	Pressure Pa	Face Velocity m/s	Throw m	NC
100	100	12	1.2	2.4-4.5	16
	150	6	0.8	2.2-3.5	<15
	200	4	0.6	2.0-3.0	<15
	250	2	0.5	1.8-2.7	<15
	300	1	0.4	1.6-2.4	<15
200	100	18	2.4	4.1-6.7	34
	150	8	1.7	3.6-5.8	15
	200	6	1.2	3.1-4.9	<15
	250	4	1.0	2.7-3.8	<15
	300	2	0.8	2.2-3.4	<15
300	100	30	3.7	5.5-9.2	40
	150	10	2.5	4.8-7.1	25
	200	8	1.9	4.1-6.0	15
	250	6	1.5	3.6-5.2	<15
	300	3	1.2	3.0-4.6	<15
400	100	34	4.9	6.6-10.5	44
	150	12	3.3	5.8-8.4	31
	200	9	2.5	5.1-7.1	19
	250	7	2.0	4.5-6.2	<15
	300	4	1.6	3.7-5.3	<15
500	100	38	6.1	7.5-12.0	46
	150	14	4.2	6.3-9.5	36
	200	10	3.1	5.6-8.0	24
	250	8	2.5	4.3-6.7	<15
	300	6	2.1	4.1-6.1	<15