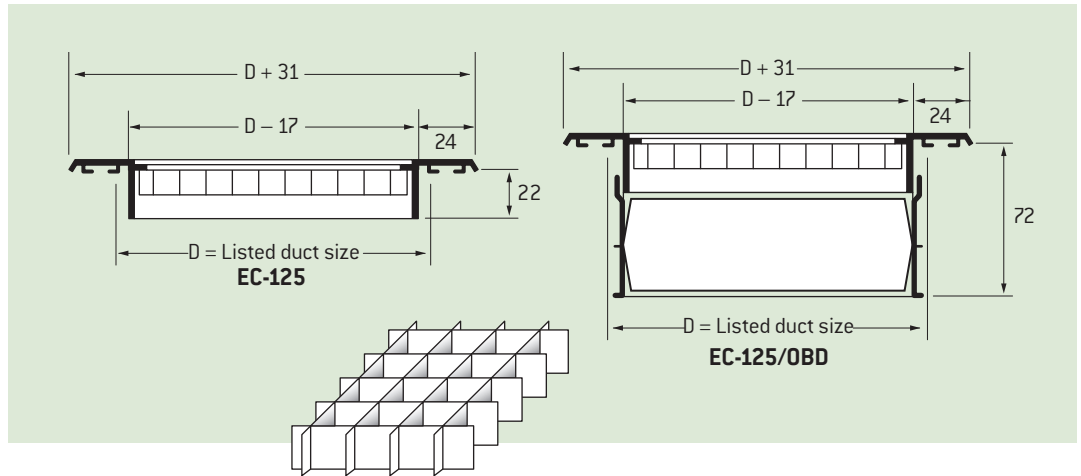


# EC & HI – Exhaust & Return Grilles

## Model: EC-125

Features 12.5 x 12.5 x 12.5mm aluminium core. Provides maximum free area.

Guide Product Weights		
Approximate Weight in Kg.		
Size	EC125	HI35
200 x 200	0.40	0.50
300 x 300	0.58	0.74
400 x 400	0.80	1.03
500 x 500	1.05	1.35
595 x 595	1.70	2.18

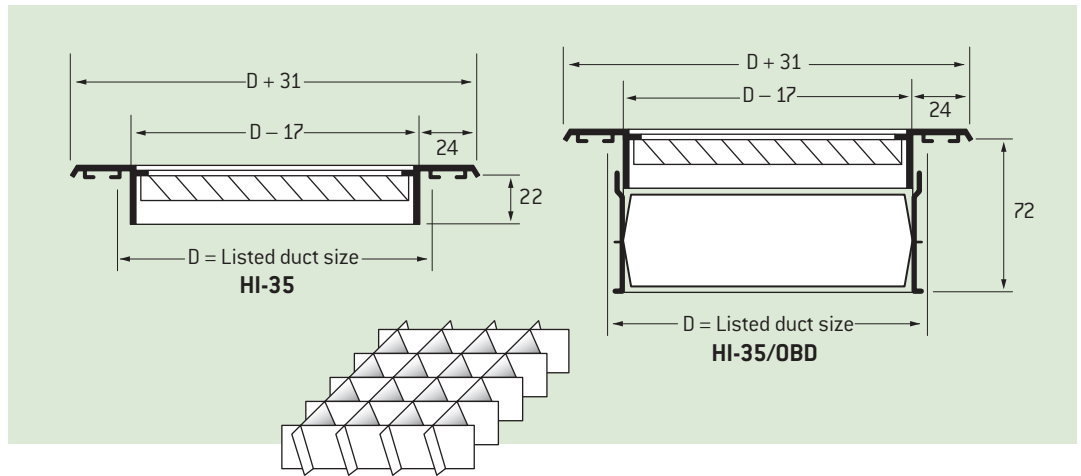


## Model: HI-35

Features diagonal blades at 9.5mm centres and 35° pitch, vertical mullion at 12.5mm centres and 0° pitch. Aluminium core.

### Options:

1. Removeable core frame (RC), (see page 228E).
2. 14 mm Flanged Surround.
3. 40mm flanged surround.
4. Filter Return (FR), (see page 227E).



## Models: EC-125 and HI-35

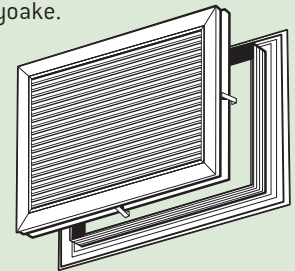
CORE AREA m <sup>2</sup>	NOMINAL SIZE(mm)	CORE VEL. m/s	NC 20				NC 30				NC 40				NC 50					
			1.53	2.04	2.55	3.06	3.57	4.08	5.10	6.12	7.14	8.16	10	16	23	31	40	50	63	80
			VEL. PRESS	2	3	4	6	8	10	16	23	31	40	50	63	80	100	125	160	200
		NEG. SP	3	5	8	12	16	20	31	45	54	80	100	125	160	200	250	315	400	
0.014	175 x 100	m <sup>3</sup> /s	0.021	0.028	0.035	0.043	0.050	0.057	0.071	0.085	0.099	0.113								
	150 x 125	NC					11	15	22	27	32	36								
0.017	200 x 100 150 x 150	m <sup>3</sup> /s	0.026	0.033	0.043	0.052	0.059	0.068	0.085	0.102	0.118	0.137								
	175 x 125	NC					12	16	23	28	33	37								
0.020	250 x 100 175 x 150	m <sup>3</sup> /s	0.031	0.043	0.052	0.061	0.073	0.083	0.104	0.125	0.146	0.165								
	200 x 125 200 x 125	NC					13	17	24	29	34	38								
0.024	300 x 100 200 x 150	m <sup>3</sup> /s	0.038	0.050	0.061	0.073	0.085	0.099	0.123	0.146	0.172	0.196								
	250 x 125	NC					14	18	25	30	35	39								
0.028	350 x 100	m <sup>3</sup> /s	0.043	0.057	0.071	0.085	0.099	0.113	0.142	0.170	0.198	0.227								
		NC				10	15	19	26	31	36	40								
0.032	400 x 100 250 x 150	m <sup>3</sup> /s	0.047	0.064	0.080	0.097	0.113	0.127	0.161	0.194	0.224	0.257								
	300 x 125	NC				11	16	20	27	32	37	41								
0.036	450 x 100 300 x 150	m <sup>3</sup> /s	0.054	0.073	0.092	0.111	0.130	0.146	0.184	0.222	0.251	0.295								
	350 x 125 200 x 200	NC				12	17	21	28	33	38	42								
0.043	500 x 100 350 x 150	m <sup>3</sup> /s	0.066	0.087	0.109	0.130	0.151	0.175	0.217	0.260	0.300	0.347								
	400 x 125 250 x 200	NC				13	18	22	29	34	39	43								
0.048	600 x 100 400 x 150	m <sup>3</sup> /s	0.073	0.099	0.123	0.146	0.172	0.196	0.245	0.295	0.345	0.392								
	450 x 125	NC				14	19	23	30	35	40	44								
0.056	700 x 100 450 x 150 250 x 250	m <sup>3</sup> /s	0.085	0.113	0.142	0.170	0.198	0.227	0.283	0.340	0.397	0.453								
	500 x 125 300 x 200	NC				15	20	24	31	36	41	45								
0.064	750 x 100 500 x 150 300 x 250	m <sup>3</sup> /s	0.097	0.130	0.163	0.196	0.229	0.260	0.326	0.392	0.456	0.519								
	600 x 125 350 x 200	NC				15	20	24	31	36	41	45								
0.075	900 x 100 550 x 150 350 x 250	m <sup>3</sup> /s	0.116	0.153	0.191	0.229	0.267	0.307	0.382	0.458	0.533	0.614								
	700 x 125 400 x 200	NC			10	16	21	25	32	37	42	46								
0.084	1000 x 100 650 x 150 400 x 250	m <sup>3</sup> /s	0.127	0.170	0.212	0.255	0.297	0.340	0.425	0.510	0.595	0.680								
	750 x 125 450 x 200 300 x 300	NC			11	17	22	26	33	38	43	47								
0.099	1225 x 100 750 x 150 350 x 300	m <sup>3</sup> /s	0.151	0.203	0.253	0.302	0.354	0.404	0.505	0.604	0.708	0.807								
	900 x 125 450 x 250	NC			12	18	23	27	34	39	44	48								
0.118	850 x 150 500 x 250 350 x 350	m <sup>3</sup> /s	0.168	0.222	0.279	0.335	0.389	0.446	0.557	0.670	0.779	0.892								
	600 x 200 400 x 300	NC			13	19	24	28	35	40	45	49								
0.125	1525 x 100 900 x 150 400 x 350	m <sup>3</sup> /s	0.189	0.253	0.316	0.380	0.447	0.505	0.633	0.760	0.887	1.010								
	1225 x 125 450 x 300	NC			14	20	25	29	36	41	46	50								
0.149	1825 x 100 600 x 250 450 x 350	m <sup>3</sup> /s	0.227	0.302	0.378	0.453	0.529	0.604	0.755	0.906	1.060	1.210								
	750 x 200 550 x 300 400 x 400	NC			15	21	26	30	37	42	47	51								
0.167	1525 x 125 900 x 200 450 x 400 600 x 300	m <sup>3</sup> /s	0.255	0.340	0.425	0.510	0.595	0.680	0.850	1.020	1.190	1.360								
	1225 x 150 750 x 250 500 x 350	NC			15	21	26	30	37	42	47	51								
0.193	1825 x 125 1000 x 200 750 x 300 500 x 400	m <sup>3</sup> /s	0.295	0.392	0.491	0.590	0.689	0.784	0.982	1.180	1.370	1.570								
	1525 x 150 900 x 250 600 x 350 450 x 450	NC		10	16	22	27	31	38	43	48	52								
0.228	1825 x 150 800 x 300 600 x 400	m <sup>3</sup> /s	0.347	0.463	0.576	0.694	0.812	0.925	1.160	1.390	1.620	1.850								
	1225 x 200 650 x 350 500 x 450	NC		11	17	23	28	32	39	44	49	53								
0.258	900 x 300 650 x 400 550 x 500	m <sup>3</sup> /s	0.394	0.524	0.656	0.788	0.920	1.050	1.310	1.580	1.840	2.100								
	750 x 350 600 x 450	NC		12	18	24	29	33	40	45	50	54								
0.289	1525 x 200 1000 x 300 750 x 400 600 x 500	m <sup>3</sup> /s	0.441	0.586	0.734	0.883	1.030	1.180	1.470	1.760	2.050	2.350								
	1225 x 250 900 x 350 650 x 450 550 x 550	NC		13	19	25	30	34	41	46	51	55								
0.335	1825 x 200 1225 x 300 750 x 450	m <sup>3</sup> /s	0.510	0.680	0.850	1.020	1.190	1.360	1.700	2.040	2.380	2.730								
	1525 x 250 900 x 400 600 x 600	NC		13	19	25	30	34	41	46	51	55								
0.399	1225 x 350 800 x 500	m <sup>3</sup> /s	0.609	0.812	1.010	1.210	1.420	1.620	2.030	2.430	2.840	3.240								
	900 x 450 700 x 600	NC		14	20	26	31	35	42	47	52	56								
0.432	1825 x 250 900 x 500	m <sup>3</sup> /s	0.661	0.878	1.100	1.320	1.540	1.760	2.200	2.630	3.070	3.510								
	1225 x 400 750 x 600	NC		15	21	27	32	36	43	48	53	57								
0.518	1825 x 300 1225 x 450	m <sup>3</sup> /s	0.788	1.050	1.320	1.580	1.850	2.110	2.630	3.160	3.690	4.220								
	1525 x 350 900 x 600	NC		16	22	28	33	37	44	49	54	58								
0.581	1825 x 350 1225 x 500	m <sup>3</sup> /s	0.887	1.180	1.470	1.770	2.070	2.360	2.950	3.540	4.130	4.720								
	1525 x 400	NC		10	17	23	29	34	38	45	50	55	59							

- Neg. SP is negative static pressure.
- NC values are based on room absorption of 10 db, re 10<sup>-12</sup> watts.

- All pressures are in pascals.
- Heavy dividing lines denote ranges of NC values.

## Grille Description Code Examples and Suggested Specifications

Door grilles shall be of rattle-free, all aluminium construction, with sight proof blades of Chevron design, assembled in either a flanged, or channel type frame, presenting a similar appearance from both sides. Purpose made back flanges shall be available for flanged units, standard models shall be available to suit any door thickness from 28mm to 52mm. All shall be as manufactured by Holyoake.



DG – [ 52 / 17 / \*1700 ] – [ BFL / BFS / AL / AS / BL / BS ] – W x H – FINISH

Door Grille. Model (Including Blade Configuration). Frame Style. Width x Height 'Nominal Opening Dimensions'. Satin Anodised (DG52 Only). Holyoake White. Mill Aluminium. Powder Coat.

\*Model 1700 is a double thickness Model 17, suitable for light proof applications. It is available with a Matt Black Finish.

[ RLL – RLS ] – [ 23 / 25 ] – [ RC / FR ] – OBD – W x H – FINISH

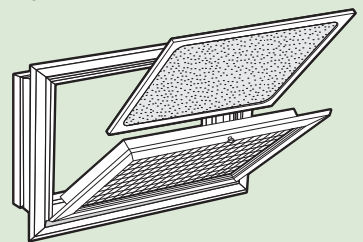
Return Louver, Long Blades. Blade Spacing/Shape Code (23 = 20mm, 25 = 12.5mm/Set at 30°). Opposed Blade Damper. Width x Height 'Nominal Size' (Duct, or Trimmed Hole). Holyoake White. Mill Aluminium. Powder Coat.

Return and/or exhaust louvers shall be of extruded aluminium, rattle-free construction, of the model shown on the drawings, or elsewhere in this specification. Blades shall be mechanically locked to mullions and frames. Frames shall have close mitred corners, reinforced and secured with aluminium gussets. Filter returns, where specified, shall be of similar construction, mounted in a hinged subframe and held closed with a positive latch. Filters are 'EU2' washable type.

All shall be as manufactured by Holyoake.

[ RLHL – RLHS ] – [ RC / FR ] – OBD – W x H – FINISH

Return Louver, Long Blades (20mm spacing, set at 45°). Return Louver, Short Blades (20mm spacing, set at 45°). Frame Style (Removeable Core, or Filter Return). Opposed Blade Damper. Width x Height 'Nominal Size' (Duct, or Trimmed Hole). Holyoake White. Mill Aluminium. Powder Coat.



\*\*Suitable for Passive Ventilation (Do not exceed core velocity of 2.5m/sec).

[ RLP ] – [ RC / FR ] – OBD – W x H – FINISH

EC-125  
HI-35

Return Louver Model (Perforated, Egg-Crate, or Obscured Egg-Crate). Frame Style (Removeable Core, or Filter Return). Opposed Blade Damper. Width x Height 'Nominal Size' (Duct, or Trimmed Hole). Holyoake White. Mill Aluminium. Powder Coat.

**Note** When ceiling mounted, seismic restraints may be required, but are not supplied.