

Overview

**12 Months
Warranty**

MANUFACTURED RANGE Half Chevrons

Description

For exhaust or return air, the HC25 manufactured range offers a blade spacing of 25mm fixed at 45 deg. Available as either fixed, removable core or hinged. Quick release removable core and hinged models provide easy access to rear and concealed fixing facility and are available with or without filter. Suitable for wall mounting.

Construction

From high quality aluminium extrusion in a variety of custom sizes. Blades are spaced at 25mm and at 45 deg. Available in natural anodised and white.

PRODUCT CODE	DESCRIPTION
HC25	Fixed Core Half Chevron with blades set at 25mm spacing and 25mm flange
RCHC25/RCHC25F	Removable Core Half Chevron with blades set at 25mm spacing and 25mm flange
HHC25/HHCF25	Hinged Core Half Chevron with blades set at 25mm spacing and 25mm flange

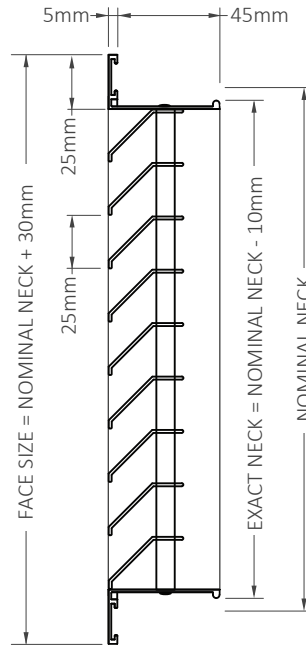
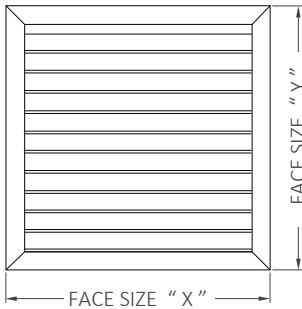
Note:

- Made to order, custom sizes and colours are available
- (The "F" Suffix denotes a filter to be supplied)
- Half Chevrons HC25 and RCHC25 are available with 40mm or 50mm flange upon request
- [For product performance data, see page 325](#)



QAE strive to provide products that best suit the market's requirements. As such, QAE reserve the right to supply products which may differ slightly from those shown in this and other publications. For product warranties please refer to our standard terms and conditions.

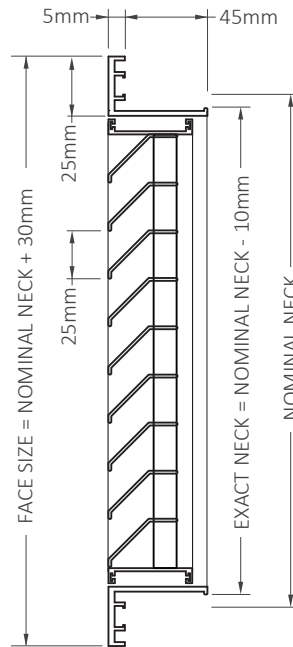
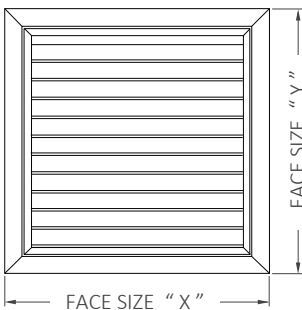
Half Chevron: HC25



FIELDS REQUIRED PRIOR TO ORDERING

Quantity	
Width (W) (Blade length)	
Height (H)	
Exact Neck Size	Choose One
Nominal Neck/ Cut Out Size	
Face Size	
White	Choose One
Natural Anodised	
Special Colour	
Mill Finish	

Removable Core Half Chevron: RCHC25



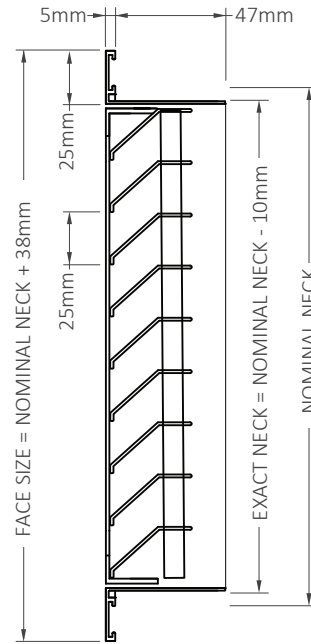
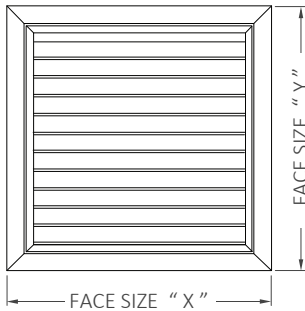
FIELDS REQUIRED PRIOR TO ORDERING

Quantity	
Width (W) (Blade length)	
Height (H)	
Exact Neck Size	Choose One
Nominal Neck/ Cut Out Size	
Face Size	
White	Choose One
Natural Anodised	
Special Colour	
Mill Finish	

Related Products for Half Chevron Grilles

UB	RN	ALPBM	ALPBF
see pg.265	see pg.274	see pg.227	see pg.226

Hinged Half Chevron: HHC25

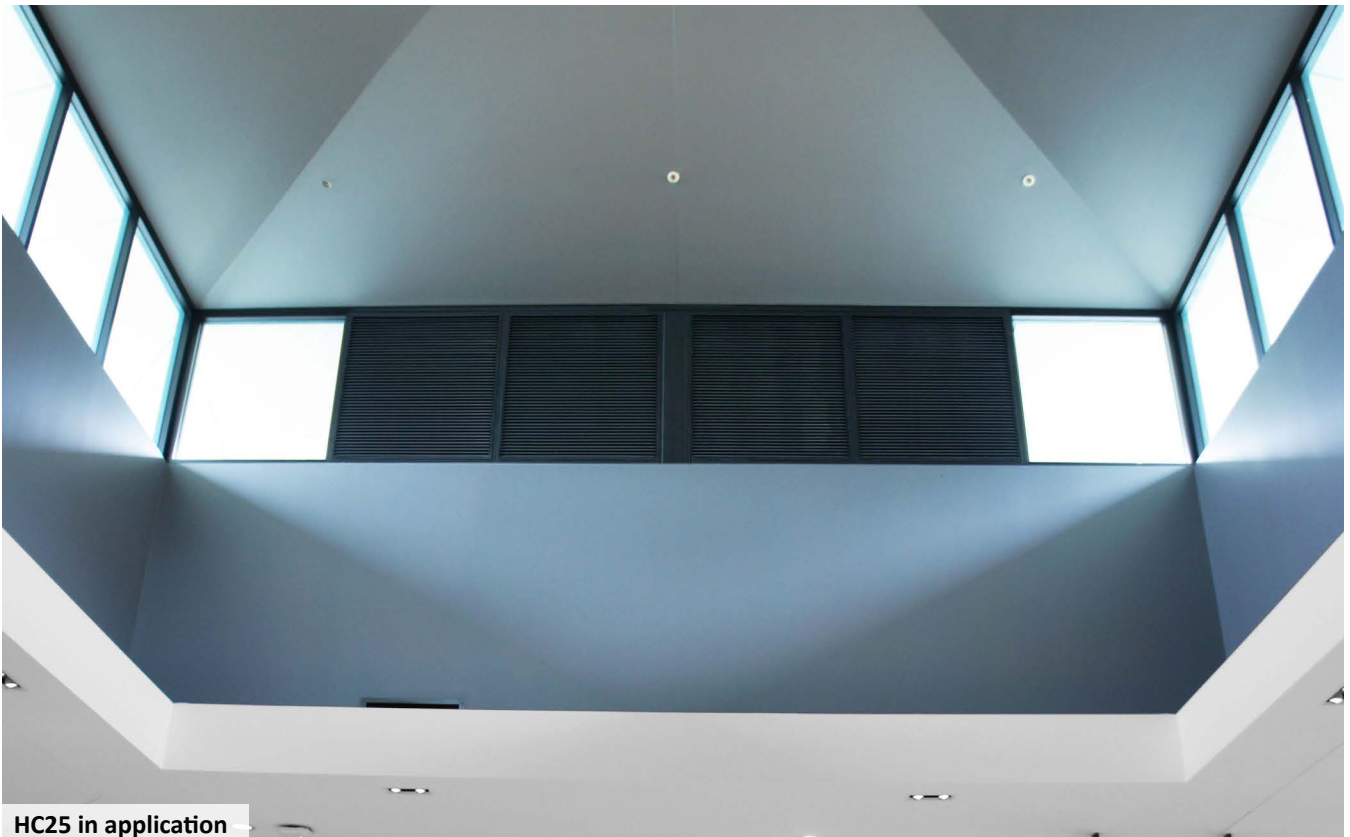


FIELDS REQUIRED PRIOR TO ORDERING

Quantity	
Width (W) (Blade Length)	
Height (H)	
Exact Neck Size	Choose One
Nominal Neck/ Cut Out Size	
Face Size	Choose One
Wall Mount (No Knobs)	
Ceiling Mount (With Knobs)	Choose One
With Filter	
Without Filter	Choose One
White	
Natural Anodised	
Special Colour	
Mill Finish	

Note:

- Wall mounted will not have knobs fitted as standard.
- Hinging on long or short side must be advised at the time of ordering.



HC25 in application

Half Chevron Grilles 25mm Spacing: HC25/RHC25/HHC25

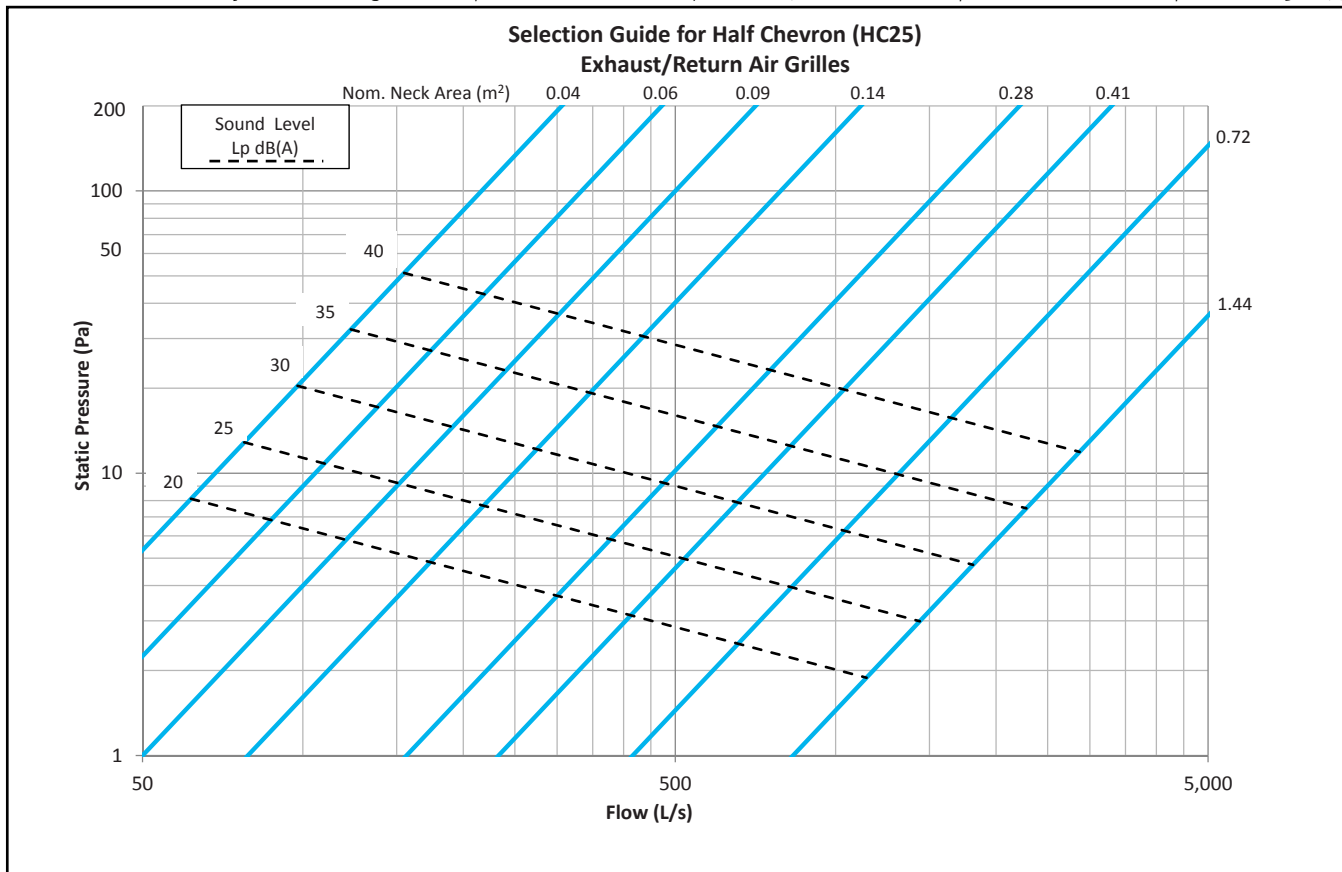
Test Conditions:

Data is based on grilles installed in the wall not more than 600mm below a flat ceiling. Terminal velocities are based on 0.25m/s. NC levels and pressure drops are given for grilles with no filter or damper installed.

Note: Please refer to the table "Comparing Noise Criteria" on the page no. 297 when evaluating sound pressure level dB(A).

Free Area: HC25/RHC25/HHC25	200 x 200	300 x 200	300 x 300	400 x 350	550 x 500	900 x 450	1200 x 600	1200 x 1200
Nominal Neck Width (mm)	200	300	300	400	550	900	1200	1200
Nominal Neck Height (mm)	200	200	300	350	500	600	600	1200
Nominal Neck Area (m ²)	0.04	0.06	0.09	0.14	0.28	0.41	0.72	1.44
No. of Blades	8	8	12	14	20	18	24	48
Blades Pitch (mm)	25	25	25	25	25	25	25	25
Face Free Width (mm)	185	285	285	385	535	885	1185	1185
Face Free Height (mm)	185	185	285	335	485	435	585	1185
Free Area (m ²)	0.033	0.050	0.075	0.119	0.235	0.350	0.626	1.251
Free Area	81%	84%	84%	85%	86%	87%	87%	87%

Half Chevron - HC25 Example Selection: A grille with square nominal neck of 0.14m² at 200 l/s will have a static pressure of 6Pa & Sound pressure of 23 dB(A).



These graphs are for selection only and should not be used for commissioning.

Nominal Neck (mm)	Equivalent Sizes (mm)	Free Area (m ²)	Flow Rate (L/s)	Flow Rate (L/s)													
				50	75	100	150	200	250	300	400	500	1000	1500	2000	3000	
200 x 200	350 x 125	0.033	Pressure Drop (Pa)	5	12	21	48	85	133								
			Lp dB(A)	<20	24	30	39	46	50								
300 x 200	350 x 175	0.050	Pressure Drop (Pa)	2	5	9	20	36	56	81	144						
			Lp dB(A)	<20	<20	23	32	38	43	47	53						
300 x 300	350 x 250	0.075	Pressure Drop (Pa)		2	4	9	16	25	36	64	100					
			Lp dB(A)		<20	<20	25	31	36	40	46	51					
400 x 350	550 x 250	0.119	Pressure Drop (Pa)			2	4	6	10	14	26	40					
			Lp dB(A)			<20	<20	23	28	32	38	43					
550 x 500	600 x 450	0.235	Pressure Drop (Pa)					2	3	4	7	10	41	92			
			Lp dB(A)					<20	<20	<20	26	31	46	55			
900 x 450	1000 x 400	0.350	Pressure Drop (Pa)						1	2	3	5	18	41	74		
			Lp dB(A)						<20	<20	<20	24	39	48	54		
1200 x 600		0.626	Pressure Drop (Pa)								1	1	6	13	23	52	
			Lp dB(A)									<20	<20	29	38	44	53
1200 x 1200		1.251	Pressure Drop (Pa)										1	3	6	13	
			Lp dB(A)											<20	26	32	41