Technical Submission

Project	Sunlight House, Manchester	Project Ref.	1394
Tech Sub Ref.	TS-M- 0012	Issued By	Lee Holland
Date	17/09/2024	Authorised	David Wilson

Technical Submission		WC Grilles and louvres Rev 1
SPECIFICATION COMPLIANCE	✓	**In compliance with Drawing 1298-CSD-XX-00-DR-M-5700 series**
DEROGATIONS	✓	**N/A**
CALCULATIONS PROVIDED	✓	**N/A**

This technical submission has been issued by G&H Building Services Ltd for the approval of WC grilles and louvres

Grilles - Series av & Series 43 SF PM
Louvres - Flanged external and Recessed 1638

All as per schedules

Information Required From	Myco
Latest Date Required	01/10/2024

Acceptance/Refusal

1. Confirm make/manufacturer - Grilles HVC, Louvres Advanced Air
2. Pressure drops can't all be the same; differing flow rates, duct sizes etc. Pressure drops stated on schedule are maximums for supplier to select against.
3. Transfer grilles - assume none are required to be fire rated? We can confirm the air paths do not pass any fire lines.
4. Is ECG within ERs? Don't believe the ER's are specific on this. Alternative proposed as per anomoly comments

WC extract approved as ceiling mounted/ within the bulkhead. Final Setting out and positions to be agreed. - Agreed in meetings
Please could we review the egg crate design - we are unsure where this would be perceived? new proposal Koolair 43SFPM teapoint extract is not approved as per DTM conversations. Extract to be smaller and incorporated into bulkhead joinery design. Schedule updated to suit

STATUS A	STATUS B	STATUS C

Response From	
Response Date	

EXTRACT GRILLE SCHEDULE

Project:	Sunlight House - Manchester
Project No:	CSD1298
Revision:	Rev 2 (Egg Crates replaced with circular diffuser on transfer grilles)
Schedule No:	1298-CSD-ZZ-ZZ-SH-M-57005
Date:	17.09.2024

	LOCATION	AIR FLOW (litres/second)	MAX PRESSURE DROP	TYPE	THROW	AIR TEMPS	GRILLE SIZE	DUCT CONNECTION	DUCT VELOCITY	TOP/SIDE PLENUM	INTEGRAL VCD	CEILING TYPE	COLOUR	dBA
EV0/01	RECEPTION WC	18	7 Pa	AIR VALVE	N/A	19	125 Dia	150	1.02	N/A	N/A	MF	RAL 9010	
EV1/01	BOH ACCESSIBLE WC	18	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.47	N/A	N/A	MF	RAL 9010	
EV1/02	BOH MALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV1/03	BOH MALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV1/04	BOH FEMALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV1/05	BOH FEMALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV1/07	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV1/08	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV1/09	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV1/10	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV1/11	FOH ACCESSIBLE WC	13	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.06	N/A	N/A	MF	RAL 9010	
EV1/12	TEA POINT	15	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.22	N/A	N/A	WALL MOUNTED	RAL 9010	
EV1/13	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV1/14	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV1/15	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV1/16	CLEANERS	8	7 Pa	AIR VALVE	N/A	19	100 Dia	100	1.02	N/A	N/A	MF	RAL 9010	
TG05	FOH MALE WC	56	7 Pa	CIRCULAR	N/A	19	287 Dia	200	1.78	SIDE	N	MF	RAL 9010	
TG06	FOH FEMALE WC	68	7 Pa	CIRCULAR	N/A	19	287 Dia	200	2.16	SIDE	N	MF	RAL 9010	
EV2/01	BOH ACCESSIBLE WC	18	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.47	N/A	N/A	MF	RAL 9010	
EV2/02	BOH MALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV2/03	BOH MALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV2/04	BOH FEMALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV2/05	BOH FEMALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV2/07	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV2/08	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV2/09	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV2/10	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV2/11	FOH ACCESSIBLE WC	13	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.06	N/A	N/A	MF	RAL 9010	
EV2/13	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV2/14	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV2/15	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV2/16	CLEANERS	8	7 Pa	AIR VALVE	N/A	19	100 Dia	100	1.02	N/A	N/A	MF	RAL 9010	
TG05	FOH MALE WC	56	7 Pa	CIRCULAR	N/A	19	287 Dia	200	1.78	SIDE	N	MF	RAL 9010	
TG06	FOH FEMALE WC	68	7 Pa	CIRCULAR	N/A	19	287 Dia	200	2.16	SIDE	N	MF	RAL 9010	
EV3/01	BOH ACCESSIBLE WC	18	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.47	N/A	N/A	MF	RAL 9010	
EV3/02	BOH MALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV3/03	BOH MALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV3/04	BOH FEMALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV3/05	BOH FEMALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV3/07	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV3/08	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV3/09	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV3/10	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV3/11	FOH ACCESSIBLE WC	13	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.06	N/A	N/A	MF	RAL 9010	
EV3/13	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV3/14	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV3/15	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV3/16	CLEANERS	8	7 Pa	AIR VALVE	N/A	19	100 Dia	100	1.02	N/A	N/A	MF	RAL 9010	
EV3/17	TEA POINT	15	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.22	N/A	N/A	IN JOINERY	RAL 9010	
EV3/18	TEA POINT	15	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.22	N/A	N/A	IN JOINERY	RAL 9010	
EV3/19	TEA POINT	15	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.22	N/A	N/A	IN JOINERY	RAL 9010	
EV3/20	TEA POINT	15	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.22	N/A	N/A	MF	RAL 9010	
TG05	FOH MALE WC	56	7 Pa	CIRCULAR	N/A	19	287 Dia	200	1.78	SIDE	N	MF	RAL 9010	
TG06	FOH FEMALE WC	68	7 Pa	CIRCULAR	N/A	19	287 Dia	200	2.16	SIDE	N	MF	RAL 9010	
EV6/01	BOH ACCESSIBLE WC	18	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.47	N/A	N/A	MF	RAL 9010	
EV6/02	BOH MALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV6/03	BOH MALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV6/04	BOH FEMALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV6/05	BOH FEMALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV6/07	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV6/08	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV6/09	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV6/10	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV6/11	FOH ACCESSIBLE WC	13	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.06	N/A	N/A	MF	RAL 9010	
EV6/13	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV6/14	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV6/15	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV6/16	CLEANERS	8	7 Pa	AIR VALVE	N/A	19	100 Dia	100	1.02	N/A	N/A	MF	RAL 9010	
TG05	FOH MALE WC	56	7 Pa	CIRCULAR	N/A	19	287 Dia	200	1.78	SIDE	N	MF	RAL 9010	
TG06	FOH FEMALE WC	68	7 Pa	CIRCULAR	N/A	19	287 Dia	200	2.16	SIDE	N	MF	RAL 9010	
EV7/01	BOH ACCESSIBLE WC	18	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.47	N/A	N/A	MF	RAL 9010	
EV7/02	BOH MALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV7/03	BOH MALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV7/04	BOH FEMALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV7/05	BOH FEMALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV7/07	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV7/08	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV7/09	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV7/10	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV7/11	FOH ACCESSIBLE WC	13	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.06	N/A	N/A	MF	RAL 9010	
EV7/13	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV7/14	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV7/15	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV7/16	CLEANERS	8	7 Pa	AIR VALVE	N/A	19	100 Dia	100	1.02	N/A	N/A	MF	RAL 9010	
TG05	FOH MALE WC	56	7 Pa	CIRCULAR	N/A	19	287 Dia	200	1.78	SIDE	N	MF	RAL 9010	

EXTRACT GRILLE SCHEDULE

Project:	Sunlight House - Manchester
Project No:	CSD1298
Revision:	Rev 2 (Egg Crates replaced with circular diffuser on transfer grilles)
Schedule No:	1298-CSD-ZZ-ZZ-SH-M-57005
Date:	17.09.2024

	LOCATION	AIR FLOW (litres/second)	MAX PRESSURE DROP	TYPE	THROW	AIR TEMPS	GRILLE SIZE	DUCT CONNECTION	DUCT VELOCITY	TOP/SIDE PLENUM	INTEGRAL VCD	CEILING TYPE	COLOUR	dBA
TG06	FOH FEMALE WC	68	7 Pa	CIRCULAR	N/A	19	287 Dia	200	2.16	SIDE	N	MF	RAL 9010	
EV8/01	BOH ACCESSIBLE WC	18	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.47	N/A	N/A	MF	RAL 9010	
EV8/02	BOH MALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV8/03	BOH MALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV8/04	BOH FEMALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV8/05	BOH FEMALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV8/07	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV8/08	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV8/09	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV8/10	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV8/11	FOH ACCESSIBLE WC	13	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.06	N/A	N/A	MF	RAL 9010	
EV8/13	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV8/14	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV8/15	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV8/16	CLEANERS	8	7 Pa	AIR VALVE	N/A	19	100 Dia	100	1.02	N/A	N/A	MF	RAL 9010	
TG05	FOH MALE WC	56	7 Pa	CIRCULAR	N/A	19	287 Dia	200	1.78	SIDE	N	MF	RAL 9010	
TG06	FOH FEMALE WC	68	7 Pa	CIRCULAR	N/A	19	287 Dia	200	2.16	SIDE	N	MF	RAL 9010	
EV9/01	BOH ACCESSIBLE WC	18	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.47	N/A	N/A	MF	RAL 9010	
EV9/02	BOH MALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV9/03	BOH MALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV9/04	BOH FEMALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV9/05	BOH FEMALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV9/07	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV9/08	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV9/09	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV9/10	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV9/11	FOH ACCESSIBLE WC	13	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.06	N/A	N/A	MF	RAL 9010	
EV9/13	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV9/14	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV9/15	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV9/16	CLEANERS	8	7 Pa	AIR VALVE	N/A	19	100 Dia	100	1.02	N/A	N/A	MF	RAL 9010	
TG05	FOH MALE WC	56	7 Pa	CIRCULAR	N/A	19	287 Dia	200	1.78	SIDE	N	MF	RAL 9010	
TG06	FOH FEMALE WC	68	7 Pa	CIRCULAR	N/A	19	287 Dia	200	2.16	SIDE	N	MF	RAL 9010	
EV10/01	BOH ACCESSIBLE WC	18	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.47	N/A	N/A	MF	RAL 9010	
EV10/02	BOH MALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV10/03	BOH MALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV10/04	BOH FEMALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV10/05	BOH FEMALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV10/07	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV10/08	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV10/09	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV10/10	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV10/11	FOH ACCESSIBLE WC	13	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.06	N/A	N/A	MF	RAL 9010	
EV10/13	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV10/14	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV10/15	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV10/16	CLEANERS	8	7 Pa	AIR VALVE	N/A	19	100 Dia	100	1.02	N/A	N/A	MF	RAL 9010	
TG05	FOH MALE WC	56	7 Pa	CIRCULAR	N/A	19	287 Dia	200	1.78	SIDE	N	MF	RAL 9010	
TG06	FOH FEMALE WC	68	7 Pa	CIRCULAR	N/A	19	287 Dia	200	2.16	SIDE	N	MF	RAL 9010	
EV11/01	BOH ACCESSIBLE WC	18	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.47	N/A	N/A	MF	RAL 9010	
EV11/02	BOH MALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV11/03	BOH MALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV11/04	BOH FEMALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV11/05	BOH FEMALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV11/07	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV11/08	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV11/09	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV11/10	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV11/11	FOH ACCESSIBLE WC	13	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.06	N/A	N/A	MF	RAL 9010	
EV11/13	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV11/14	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV11/15	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV11/16	CLEANERS	8	7 Pa	AIR VALVE	N/A	19	100 Dia	100	1.02	N/A	N/A	MF	RAL 9010	
TG05	FOH MALE WC	56	7 Pa	CIRCULAR	N/A	19	287 Dia	200	1.78	SIDE	N	MF	RAL 9010	
TG06	FOH FEMALE WC	68	7 Pa	CIRCULAR	N/A	19	287 Dia	200	2.16	SIDE	N	MF	RAL 9010	
EV12/01	BOH ACCESSIBLE WC	18	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.47	N/A	N/A	MF	RAL 9010	
EV12/02	BOH MALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV12/03	BOH MALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV12/04	BOH FEMALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV12/05	BOH FEMALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV12/07	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV12/08	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV12/09	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV12/10	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV12/11	FOH ACCESSIBLE WC	13	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.06	N/A	N/A	MF	RAL 9010	
EV12/13	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV12/14	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV12/15	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV12/16	CLEANERS	8	7 Pa	AIR VALVE	N/A	19	100 Dia	100	1.02	N/A	N/A	MF	RAL 9010	
TG05	FOH MALE WC	56	7 Pa	CIRCULAR	N/A	19	287 Dia	200	1.78	SIDE	N	MF	RAL 9010	
TG06	FOH FEMALE WC	68	7 Pa	CIRCULAR	N/A	19	287 Dia	200	2.16	SIDE	N	MF	RAL 9010	
EV13/07	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV13/08	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV13/09	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	
EV13/10	FOH FEMALE WC	17	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.39	N/A	N/A	MF	RAL 9010	

EXTRACT GRILLE SCHEDULE

Project:	Sunlight House - Manchester
Project No:	CSD1298
Revision:	Rev 2 (Egg Crates replaced with circular diffuser on transfer grilles)
Schedule No:	1298-CSD-ZZ-ZZ-SH-M-57005
Date:	17.09.2024

	LOCATION	AIR FLOW (litres/second)	MAX PRESSURE DROP	TYPE	THROW	AIR TEMPS	GRILLE SIZE	DUCT CONNECTION	DUCT VELOCITY	TOP/SIDE PLENUM	INTEGRAL VCD	CEILING TYPE	COLOUR	dBA
EV13/11	FOH ACCESSIBLE WC	13	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.06	N/A	N/A	MF	RAL 9010	
EV13/12	TEA POINT	15	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.22	N/A	N/A	WALL MOUNTED	RAL 9010	
EV13/13	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV13/14	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV13/15	FOH MALE WC	19	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.55	N/A	N/A	MF	RAL 9010	
EV13/16	CLEANERS	8	7 Pa	AIR VALVE	N/A	19	100 Dia	100	1.02	N/A	N/A	MF	RAL 9010	
EV13/17	TEA POINT	15	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.22	N/A	N/A	EXPOSED	RAL 9010	
EV13/18	TEA POINT	15	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.22	N/A	N/A	EXPOSED	RAL 9010	
EV13/19	TEA POINT	15	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.22	N/A	N/A	EXPOSED	RAL 9010	
EV13/20	TEA POINT	15	7 Pa	AIR VALVE	N/A	19	125 Dia	125	1.22	N/A	N/A	EXPOSED	RAL 9010	

NOTES:

43-SF

Catalogue Series 40.1

Circular diffuser with multiple fixed cones

Product description

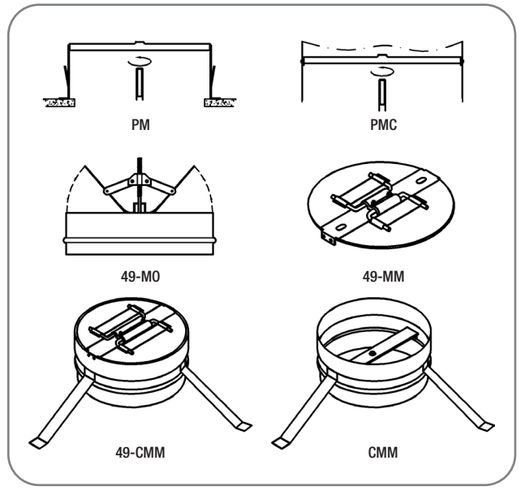
Circular diffuser, with multiple cones, KOOLAIR, model **43-SF** size _ mm (neck's connection diameter).
It can incorporate volume control damper **(-49MM)** and mounting accessories upon request.
Finished in anodised aluminium or any RAL colour upon request.
Recommended height installation between 2.5 and 3 m.

Mounting

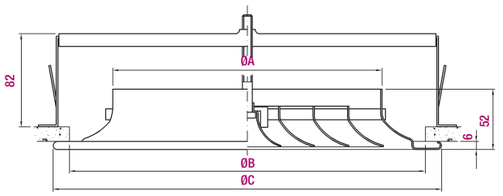
PM. With mounting bridge for sheet ducts.
PMC. With mounting bridge for circular sheet ducts.
49CMM. Mounting neck with flap damper for diffuser **43-SF**.
PCDS. Top connection circular plenum in galvanized steel sheet. (**-A.** internally insulated)
PCDL. Lateral connection circular plenum in galvanized steel sheet. (**-A.** internally insulated)

Other models

43-SF-Q. Circular diffuser with fixed cones integrated in a plate of 595x595, to be installed in a modular false ceiling.



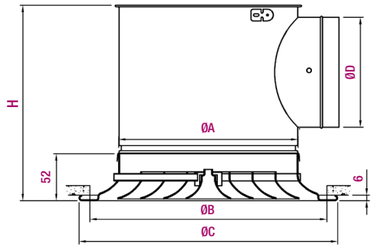
General dimensions



Diffuser	Ø A	Ø B	Ø C
160	159	213	247
200	199	264	287
250	249	315	337
315	314	366	402
355	354	417	442
400	399	468	487

Unit mm

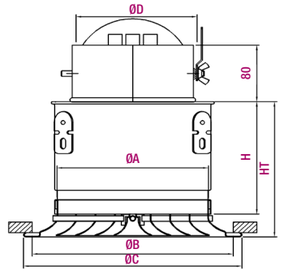
43-SF-PM



Diffuser	Ø A	Ø B	Ø C	Ø D	H
160	159	213	247	159	262
200	199	264	287	199	302
250	249	315	337	249	352
315	314	366	402	314	417
355	354	417	442	354	457
400	399	468	487	399	502

Unit mm

43-SF+PC



Diffuser	Ø A	Ø B	Ø C	Ø D	H	HT
160	163	213	247	159	155	187
200	203	264	287	199	175	207
250	253	315	337	249	200	264
315	318	366	402	314	232	264
355	358	417	442	354	252	284
400	403	468	487	399	275	307

Unit mm

43-SF+PCS

Selection table

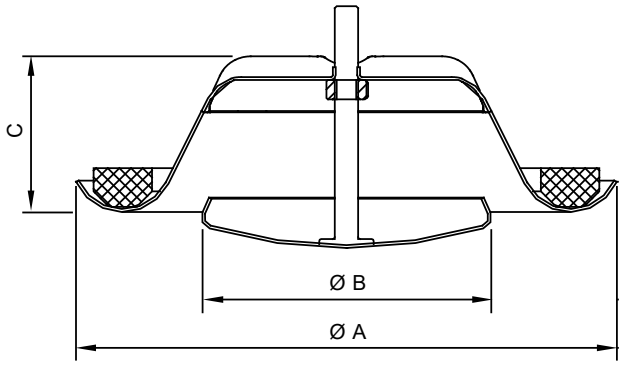
Dimension	Ø nominal	Q (m^3/h)	L_{wA} [dB(A)]	ΔP_t (Pa)	X (m)	V_k (m/s)
6	160	200	24	14	1.8	5.9
		250	32	22	2.3	7.5
		310	40	34	2.9	9.4
8	200	260	24	11	2.0	5.3
		330	32	17	2.5	6.6
		410	40	27	3.1	8.3
10	250	350	24	8	2.1	4.7
		430	32	13	2.7	5.9
		550	40	21	3.4	7.4
12	315	460	24	7	2.3	4.1
		580	32	10	2.9	5.2
		730	40	17	3.7	6.5
14	355	540	24	6	2.4	3.9
		670	32	9	3.0	4.9
		850	40	15	3.8	6.1
16	400	670	24	5	2.5	3.6
		780	32	8	3.2	4.6
		990	40	13	4.0	5.7

LEGEND

Q (m^3/h): Air flow.
L_{wA} [dB(A)]: Sound power level.
ΔP_t (Pa): Total pressure loss.
X (m): Throw for a maximum velocity of 0.25 m/s at the occupied zone $\Delta T = -10$ ºC (cold), installed at a height of 3 m, with ceiling effect.
V_k (m/s): Effective velocity.

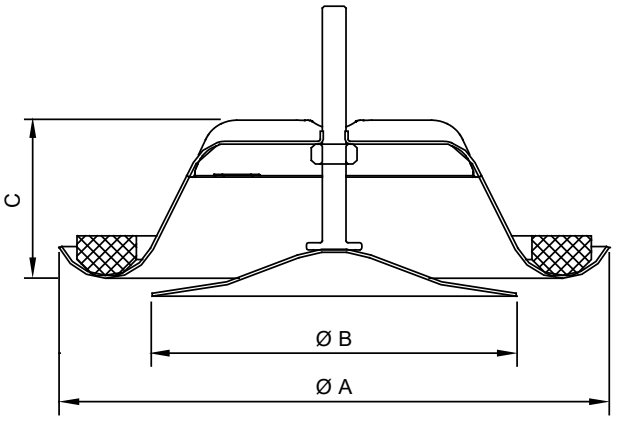
Technical drawings

GEV - Metal extract air valve



Size	A (mm)	B (mm)	C (mm)
100	140	75	40
125	170	99	46
150	202	119	54
160	202	119	54
200	254	157	64

GSV - Metal supply air valve



Size	A (mm)	B (mm)	C (mm)
100	140	92	40
125	170	111	46
150	202	135	54
160	202	194	54
200	254	194	64

Technical drawings

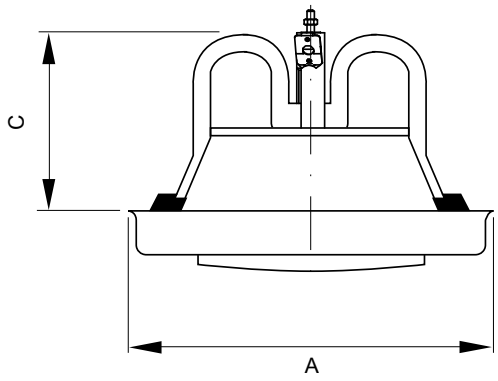
GEFV-CE - CE marked fire rated extract air valve

A fully certified CE marked air valve, assessed against the requirements of EN 15650:2010, and with fire resistance as follows:

Installation in flexible wall: Integrity: E 60
Smoke leakage: E 45 S

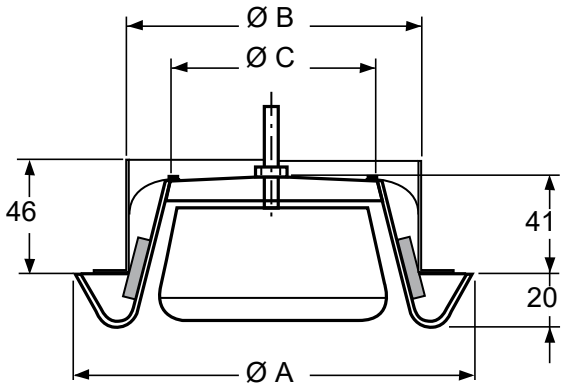
Installation in rigid wall: Integrity: E 120
Smoke leakage: E 120 S

Installation in rigid floor: Integrity: E 120
Smoke leakage: E 60 S



Size	A (mm)	C (mm)
100	134	74
125	160	85
150	191	89
160	191	89
200	241	107

PAV - Plastic extract air valve



Size	A (mm)	B (mm)	C (mm)
100	145	100	70
125	160	125	95
150	190	150	116
160	200	160	125
200	243	200	170

LOUVRE SCHEDULE

Project:	Sunlight House - Manchester
Project No:	CSD1298
Revision:	Rev 2 (Tea Point flowrates amended)
Schedule No:	1298-CSD-ZZ-ZZ-SH-M-57008
Date:	04.09.2024

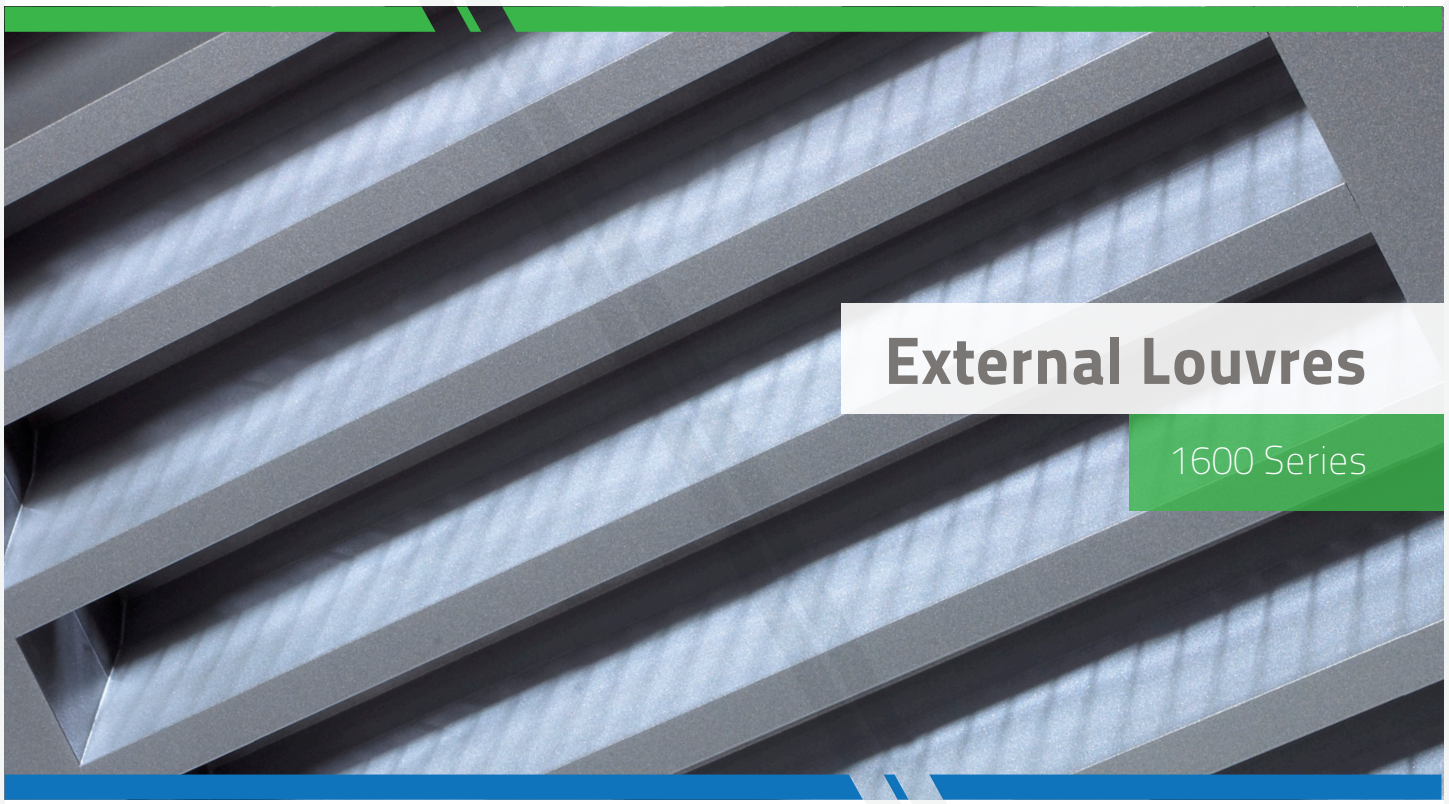
	LOCATION	SYSTEM	SIZE	AIR FLOW (l/s)	MAX PRESSURE DROP (Pa)	FREE AREA	CLASS	INSECT SCREEN	BIRD GUARD	PLENUM	COLOUR
EL1/01	BOH Male WC	Male & DDA WC Extract	250x250	52	10	38%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL1/02	BOH Female WC	Female WC Extract	200x200	38	10	38%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL1/03	FOH Male WC	Tea Point Extract	255x315 (to suit window pane)	15	10	42%	B	No	Yes	by ductwork specialist (125dia conn)	TBC by architect
EL1/04	FOH Male WC	Male WC Extract	255x315 (to suit window pane)	56	10	42%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL1/05	FOH Female WC	Female & DDA WC Extract	255x315 (to suit window pane)	89	10	42%	B	No	Yes	by ductwork specialist (200dia conn)	TBC by architect
EL2/01	BOH Male WC	Male & DDA WC Extract	250x250	52	10	38%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL2/02	BOH Female WC	Female WC Extract	200x200	38	10	38%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL2/04	FOH Male WC	Male WC Extract	255x315 (to suit window pane)	56	10	42%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL2/05	FOH Female WC	Female & DDA WC Extract	255x315 (to suit window pane)	89	10	42%	B	No	Yes	by ductwork specialist (200dia conn)	TBC by architect
EL3/01	BOH Male WC	Male & DDA WC Extract	250x250	52	10	38%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL3/02	BOH Female WC	Female WC Extract	200x200	38	10	38%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL3/03	BOH Male WC	Tea Point Extract	150x150	15	10	42%	B	No	Yes	by ductwork specialist (125dia conn)	TBC by architect
EL3/04	FOH Male WC	Male WC Extract	255x315 (to suit window pane)	56	10	42%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL3/05	FOH Female WC	Female & DDA WC Extract	255x315 (to suit window pane)	89	10	42%	B	No	Yes	by ductwork specialist (200dia conn)	TBC by architect
EL3/06	BOH Female WC	Tea Point Extract	150x150	15	10	38%	B	No	Yes	by ductwork specialist (125dia conn)	TBC by architect
EL3/07	FOH Male WC	Tea Point Extract	255x315 (to suit window pane)	15	10	42%	B	No	Yes	by ductwork specialist (125dia conn)	TBC by architect
~~**EL3/08**~~	~~FOH Male WC~~	~~Tea Point Extract~~	~~255x315 (to suit window pane)~~	~~15~~	~~10~~	~~42%~~	~~B~~	~~No~~	~~Yes~~	~~by ductwork specialist (125dia conn)~~	~~TBC by architect~~
EL6/01	BOH Male WC	Male & DDA WC Extract	250x250	52	10	38%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL6/02	BOH Female WC	Female WC Extract	200x200	38	10	38%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL6/04	FOH Male WC	Male WC Extract	255x315 (to suit window pane)	56	10	42%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL6/05	FOH Female WC	Female & DDA WC Extract	255x315 (to suit window pane)	89	10	42%	B	No	Yes	by ductwork specialist (200dia conn)	TBC by architect
EL7/01	BOH Male WC	Male & DDA WC Extract	250x250	52	10	38%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL7/02	BOH Female WC	Female WC Extract	200x200	38	10	38%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL7/04	FOH Male WC	Male WC Extract	255x315 (to suit window pane)	56	10	42%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL7/05	FOH Female WC	Female & DDA WC Extract	255x315 (to suit window pane)	89	10	42%	B	No	Yes	by ductwork specialist (200dia conn)	TBC by architect
EL8/01	BOH Male WC	Male & DDA WC Extract	250x250	52	10	38%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL8/02	BOH Female WC	Female WC Extract	200x200	38	10	38%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL8/04	FOH Male WC	Male WC Extract	255x315 (to suit window pane)	56	10	42%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL8/05	FOH Female WC	Female & DDA WC Extract	255x315 (to suit window pane)	89	10	42%	B	No	Yes	by ductwork specialist (200dia conn)	TBC by architect
EL9/01	BOH Male WC	Male & DDA WC Extract	250x250	52	10	38%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL9/02	BOH Female WC	Female WC Extract	200x200	38	10	38%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL9/04	FOH Male WC	Male WC Extract	255x315 (to suit window pane)	56	10	42%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL9/05	FOH Female WC	Female & DDA WC Extract	255x315 (to suit window pane)	89	10	42%	B	No	Yes	by ductwork specialist (200dia conn)	TBC by architect
EL10/01	BOH Male WC	Male & DDA WC Extract	250x250	52	10	38%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL10/02	BOH Female WC	Female WC Extract	200x200	38	10	38%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL10/04	FOH Male WC	Male WC Extract	255x315 (to suit window pane)	56	10	42%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL10/05	FOH Female WC	Female & DDA WC Extract	255x315 (to suit window pane)	89	10	42%	B	No	Yes	by ductwork specialist (200dia conn)	TBC by architect
EL11/01	BOH Male WC	Male & DDA WC Extract	250x250	52	10	38%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL11/02	BOH Female WC	Female WC Extract	200x200	38	10	38%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL11/04	FOH Male WC	Male WC Extract	255x315 (to suit window pane)	56	10	42%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL11/05	FOH Female WC	Female & DDA WC Extract	255x315 (to suit window pane)	89	10	42%	B	No	Yes	by ductwork specialist (200dia conn)	TBC by architect
EL12/01	BOH Male WC	Male & DDA WC Extract	250x250	52	10	38%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL12/02	BOH Female WC	Female WC Extract	200x200	38	10	38%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL12/04	FOH Male WC	Male WC Extract	255x315 (to suit window pane)	56	10	42%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL12/05	FOH Female WC	Female & DDA WC Extract	255x315 (to suit window pane)	89	10	42%	B	No	Yes	by ductwork specialist (200dia conn)	TBC by architect
EL13/03	FOH Male WC	Tea Point Extract	255x315 (to suit window pane)	15	10	42%	B	No	Yes	by ductwork specialist (125dia conn)	TBC by architect
EL13/04	FOH Male WC	Male WC Extract	255x315 (to suit window pane)	56	10	42%	B	No	Yes	by ductwork specialist (150dia conn)	TBC by architect
EL13/05	FOH Female WC	Female & DDA WC Extract	255x315 (to suit window pane)	89	10	42%	B	No	Yes	by ductwork specialist (200dia conn)	TBC by architect
				-							

NOTES:

1. Any unused area of louvre to be sealed and thermally insulated by ductwork specialist

ADVANCEDAIR

INNOVATION IN ACTION



External Louvres

1600 Series

General Product Overview

External Louvres

Advanced Air External Louvres feature an architecturally appealing straight blade design with smooth, clean lines that visually compliment any structure's exterior styling. Available in flanged or optional recessed frame, the frame installs easily in most common wall configurations. Suitable for use in exhaust and low to medium velocity intake applications, the blade design features a rear water baffle and provides reasonable protection against general weather conditions. The models exhibit low pressure drop characteristics and a high free area. Reinforcing bosses run the full length of each blade for superior strength. Advanced Air External Louvres are engineered to be architecturally appealing as well as mechanically enduring.

Features & Benefits of Advanced Air Louvres:

- Extruded aluminium blades and frames for high durability and quality fit and finish.
- Reinforcing bosses run the full length of each blade for superior strength.
- Low pressure drop characteristics require less fan energy and contribute to efficient system operation.
- Selection of finishes.
- Bird Mesh fitted as standard, Insect mesh optional.
- Flange frame and recessed frame options.
- Available in multi section modules for site assembly giving continuous blade appearance.

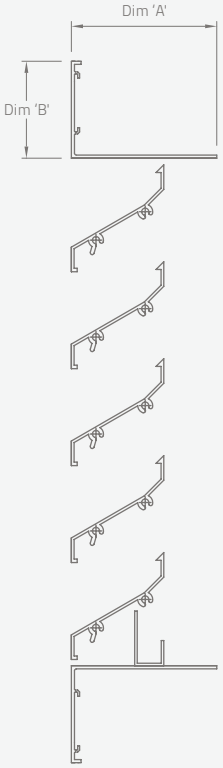
- **Standard Blade Style**
- **Weather Resistant**
- **Clean Architectural Appearance**
- **Extruded Aluminium**

External Louvres

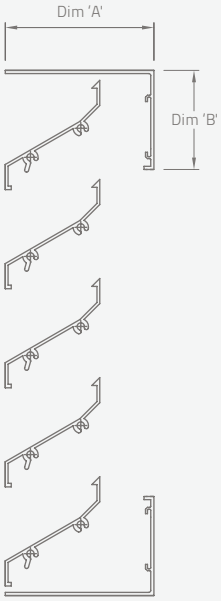
1600 Series ▪ Standard Blade Type

The Advanced Air 1600 Series is an architecturally styled louvre designed with smooth, clean lines that visually compliment any structure's exterior styling. It is ideal for use in both standard and thin wall applications or a/c units. Suitable for use in exhaust and low to medium velocity intake applications, the J-style blade design features a rear water baffle and provides good protection against general weather conditions, with low pressure drop characteristics. Reinforcing bosses run the full length of each blade for superior strength. Available with flanged or recessed frames, the 1600 series design is styled to please and engineered to perform.

Standard Flanged Frame



Optional Recessed Frame



Models:

1638	38mm Blade Pitch	40mm Deep
1650	50mm Blade Pitch	80mm Deep
1675	75mm Blade Pitch	108mm Deep

Model	Dim A	Dim B
1638	40mm	30mm
1650	80mm	50mm
1675	108mm	50mm

1600 Series Construction

Frame:	Type 6063-T6 extruded aluminium.
Nominal wall thickness	Model 1638: 1.3mm
	Model 1650: 1.6mm
	Model 1675: 1.8mm
Blades:	Type 6063-T6 extruded aluminium.
Nominal wall thickness	Model 1638: 1.3mm
	Model 1650: 1.4mm
	Model 1675: 1.6mm
Effective Blade Angle:	45 degrees.
Blade Spacing:	Model 1638: 38mm
	Model 1650: 50mm
	Model 1675: 75mm
Blade Support Brackets:	On models 1650 and 1675 only, Concealed type, factory installed on rear of louvre on maximum 1000mm centres. Reinforced with extruded mullion.
Mullions:	Concealed architectural type.
Screen:	13mm x 13mm x 1.0mm ga. galvanised bird screen.
Finish:	Mill. Special Finishes are available.
Minimum Size:	Model 1638: 100mm wide x 100mm high
	Model 1650,1675: 200mm wide x 200mm high.
Maximum Size:	Model 1638: 1000mm wide x 1000mm High
	Model 1650, 1675: 2000mm wide x 2000mm high.

Larger sizes will be manufactured in sections with hidden architectural style rear mullions for assembly in the site.

Performance Data

Models: 1638SB, 1650SB & 1675SB ▪ Free Area (m2)

Model: 1638SB

Height (m)	Width (m)									
	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00
0.20	0.02	0.03	0.05	0.06	0.08	0.09	0.11	0.12	0.14	0.15
0.40	0.03	0.07	0.10	0.14	0.17	0.21	0.24	0.27	0.31	0.34
0.60	0.05	0.11	0.16	0.21	0.27	0.32	0.37	0.43	0.48	0.53
0.80	0.08	0.15	0.23	0.30	0.38	0.46	0.53	0.61	0.68	0.76
1.00	0.10	0.19	0.29	0.38	0.48	0.57	0.67	0.76	0.86	0.95
1.20	0.11	0.23	0.34	0.46	0.57	0.68	0.80	0.91	1.03	1.14
1.40	0.13	0.27	0.40	0.53	0.67	0.80	0.93	1.06	1.20	1.33
1.60	0.16	0.31	0.47	0.62	0.78	0.93	1.09	1.25	1.40	1.56
1.80	0.17	0.35	0.52	0.70	0.87	1.05	1.22	1.40	1.57	1.75
2.00	0.19	0.39	0.58	0.78	0.97	1.16	1.36	1.55	1.74	1.94

Model: 1650SB

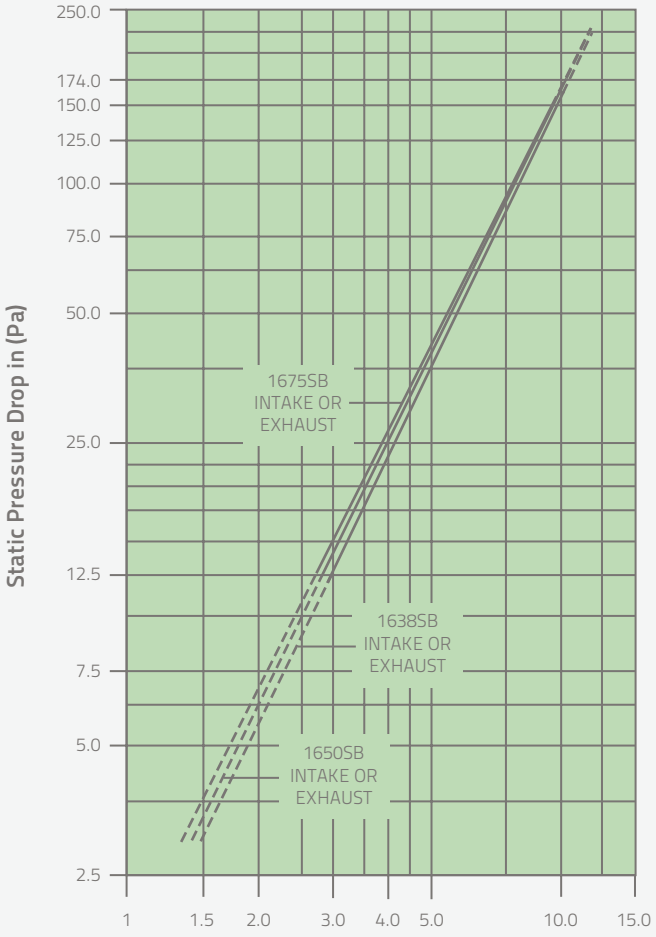
Height (m)	Width (m)									
	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00
0.20	0.01	0.03	0.04	0.06	0.07	0.09	0.10	0.12	0.13	0.15
0.40	0.03	0.07	0.10	0.14	0.17	0.20	0.24	0.27	0.31	0.34
0.60	0.05	0.11	0.16	0.21	0.27	0.32	0.38	0.43	0.48	0.54
0.80	0.07	0.15	0.22	0.29	0.37	0.44	0.51	0.59	0.66	0.73
1.00	0.09	0.19	0.28	0.37	0.46	0.56	0.65	0.74	0.83	0.93
1.20	0.11	0.22	0.34	0.45	0.56	0.67	0.79	0.90	1.01	1.12
1.40	0.13	0.26	0.40	0.53	0.66	0.79	0.92	1.05	1.19	1.32
1.60	0.15	0.30	0.45	0.61	0.76	0.91	1.06	1.21	1.36	1.51
1.80	0.17	0.34	0.51	0.68	0.85	1.02	1.20	1.37	1.54	1.71
2.00	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.90

Model: 1675SB

Height (m)	Width (m)									
	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00
0.20	0.01	0.02	0.03	0.03	0.04	0.05	0.06	0.07	0.08	0.08
0.40	0.03	0.07	0.10	0.13	0.17	0.20	0.24	0.27	0.30	0.34
0.60	0.06	0.12	0.18	0.24	0.29	0.35	0.41	0.47	0.53	0.59
0.80	0.08	0.15	0.23	0.30	0.38	0.45	0.53	0.60	0.68	0.76
1.00	0.10	0.20	0.30	0.40	0.50	0.60	0.71	0.81	0.91	1.01
1.20	0.13	0.25	0.38	0.50	0.63	0.76	0.88	1.01	1.13	1.26
1.40	0.14	0.29	0.43	0.57	0.71	0.86	1.00	1.14	1.29	1.43
1.60	0.17	0.34	0.50	0.67	0.84	1.01	1.18	1.34	1.51	1.68
1.80	0.19	0.39	0.58	0.77	0.97	1.16	1.35	1.55	1.74	1.93
2.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10

Performance Data

Models: 1638SB, 1650SB & 1675SB
Pressure Drop



Face Velocity (m/s)
Louvre test size: 1220mm x 1220 mm.
Standard air density @ 1.20 kg/m3.

How To Specify or To Order

Extruded Aluminium Louvres ▪ Models 1638SB, 1650SB, 1675SB

1638SB - 1200 x 900 - FL - BSG - MI - CM - —

Model
- 1638SB
- 1650SB
- 1675SB

Nominal Width
mm

Nominal Height
mm

Frame
- Flanged (default) FL
- Recessed RE

Screen
- Galvanised Bird Screen (default) BSG
- Aluminium Insect Screen ISA
- No Screen Required

Finish
- Mill Finish (default) MI
- Polyester Powder PP
- Special SPL

Mullion Type
- Concealed (default) CM

Other Options
- None (default) —

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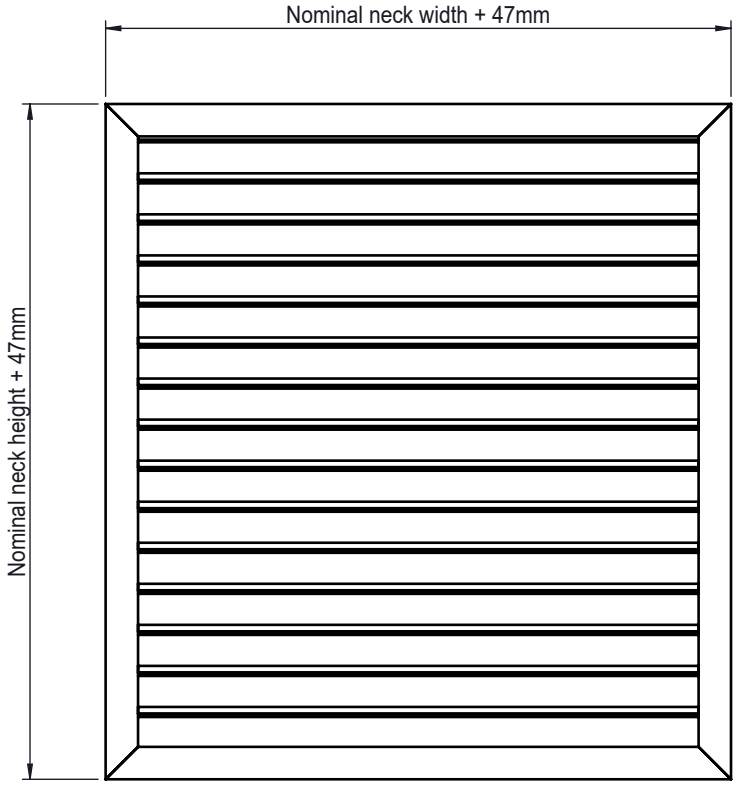
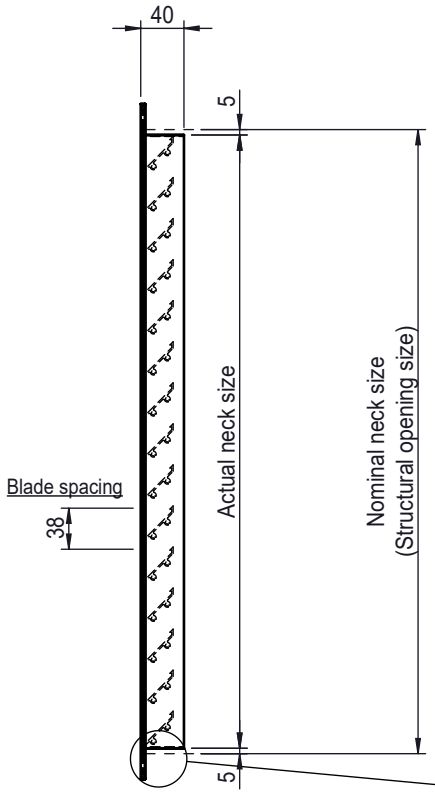
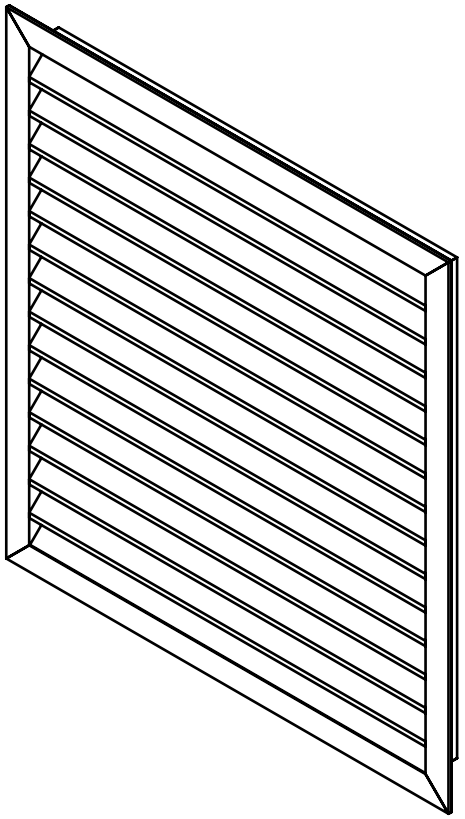
Dwg. No. : **D1600 CD001**

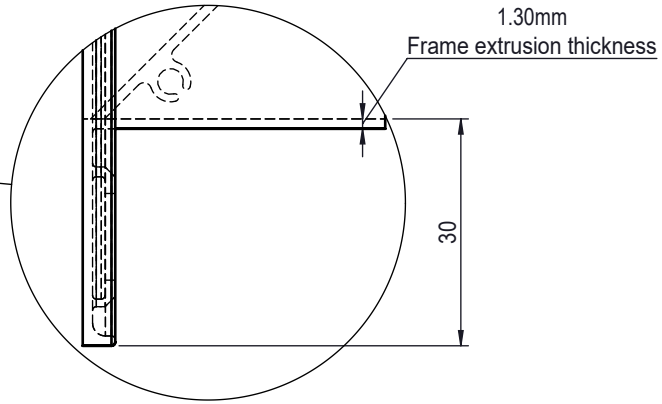
(Dim.) - Inspection/Critical Dimension

1638 Flanged external louvre grille assembly









Note:
Minimum nominal neck size: 100mm wide x 100mm high.
Maximum nominal neck size: 1000mm wide x 1000mm high.

Revision Table				
Rev	Date	Description	DRN	CHKD
A	03/02/2021	First issue	BG	CJC

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Tolerances to ISO 2768-m All dimensions in mm (unless otherwise stated)	
0.5 up to 6	±0.1
over 6 up to 30	±0.2
over 30 up to 120	±0.3
over 120 up to 400	±0.5
over 400 up to 1000	±0.8
over 1000 up to 2000	±1.2

Title:
D1600 Series
External louvre grille assembly
1638 - 1650 - 1675
Customer Drawing

Material: **Type 6063-T6 extruded aluminium**

Scale: **1:7** | Format: **A4**
Sheet: **1 of 3** | Mass [g]: **N/A**
Finish: **Mill. Special finishes available**
Dwg. No. : **D1600 CD001**

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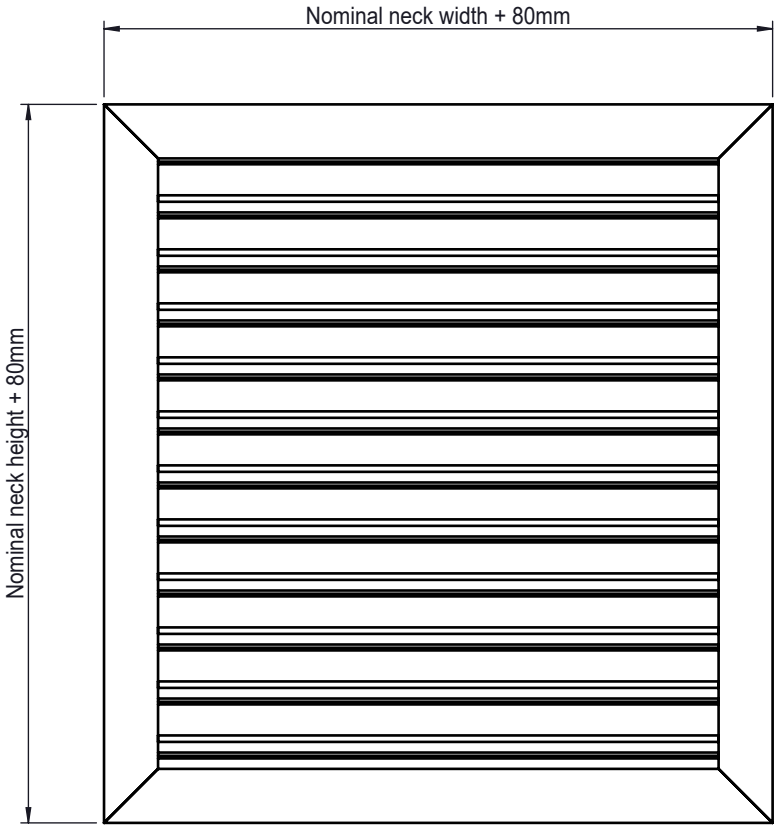
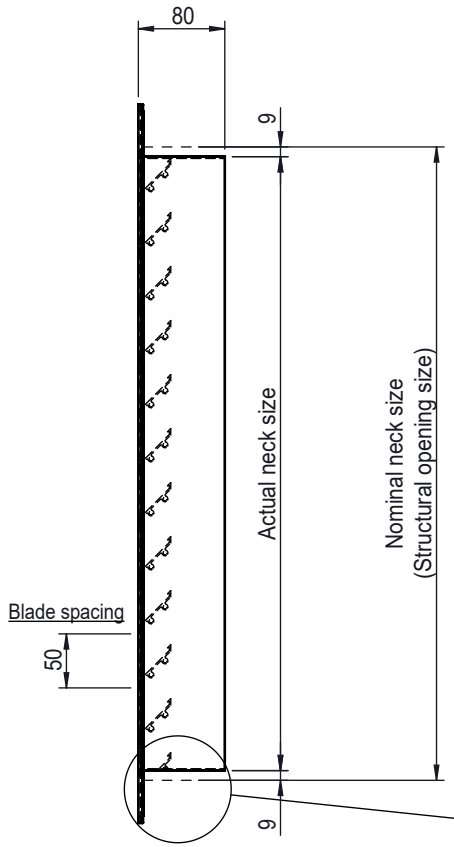
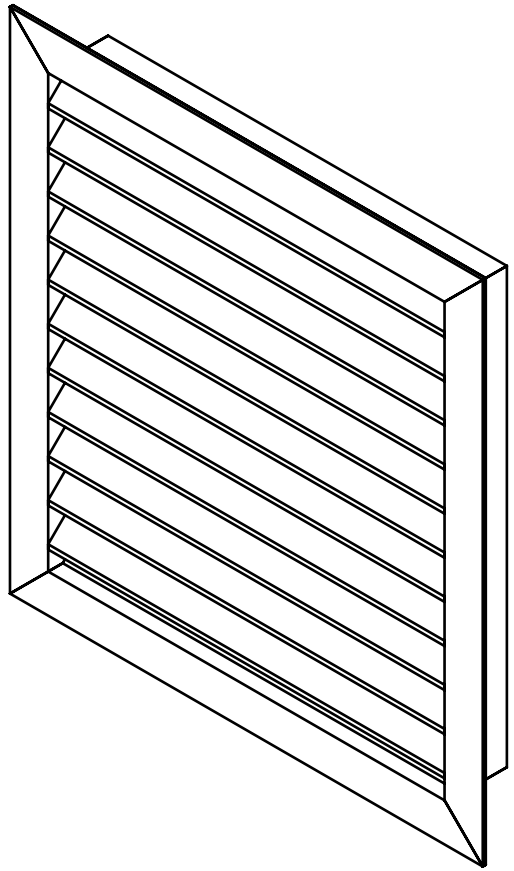
Dwg. No. : **D1600 CD001**

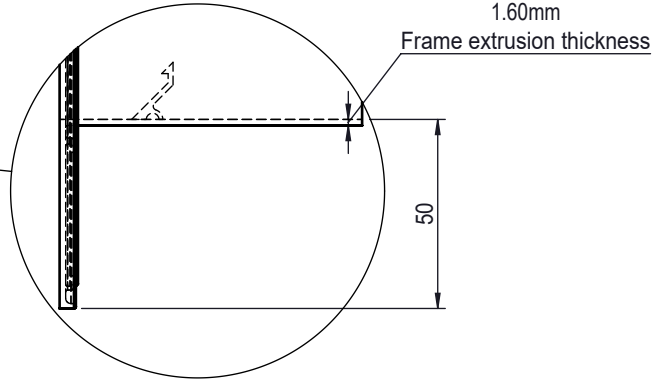
(Dim.) - Inspection/Critical Dimension

1650 Flanged external louvre grille assembly









Note:
Minimum nominal neck size: 200mm wide x 200mm high.
Maximum nominal neck size: 2000mm wide x 2000mm high.

Revision Table				
Rev	Date	Description	DRN	CHKD
A	03/02/2021	First issue	BG	CJC

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over 6 up to 30	±0.2
over 30 up to 120	±0.3
over 120 up to 400	±0.5
over 400 up to 1000	±0.8
over 1000 up to 2000	±1.2

Title:
D1600 Series
External louvre grille assembly
1638 - 1650 - 1675
Customer Drawing

Material: **Type 6063-T6 extruded aluminium**

Scale: **1:7** | Format: **A4**
Sheet: **2 of 3** | Mass [g]: **N/A**
Finish: **Mill. Special finishes available**
Dwg. No. : **D1600 CD001**

G:\PRODUCTS\ADE - 1600 Series External Weather Louvres\02 Engineering\Drawings\D1600 Customer Drawings\D1600 CD001 - Flanged external louvre grille\D1600 CD001 A - Flanged external louvre grille

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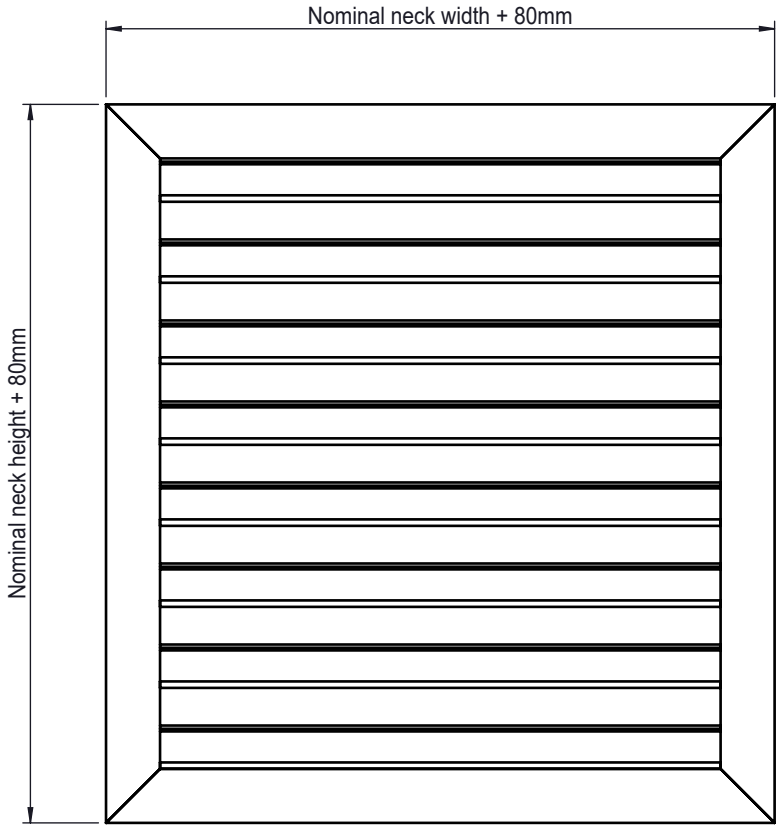
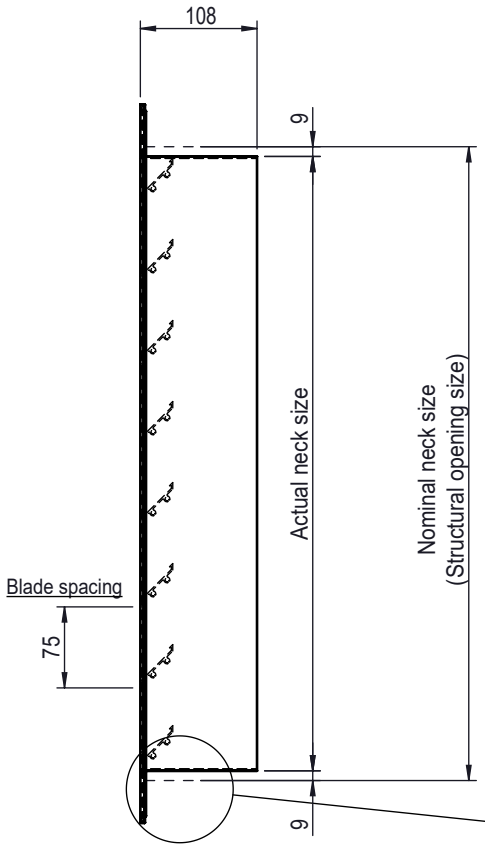
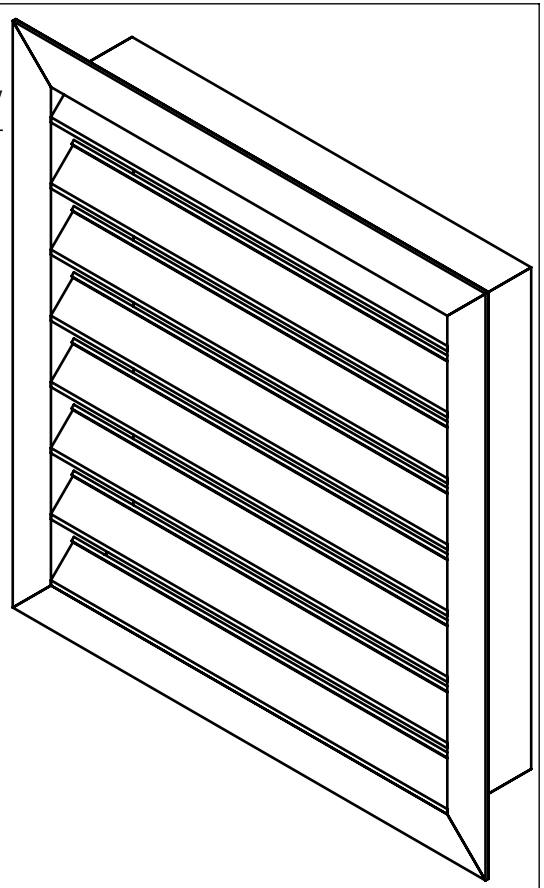
Dwg. No. : **D1600 CD001**

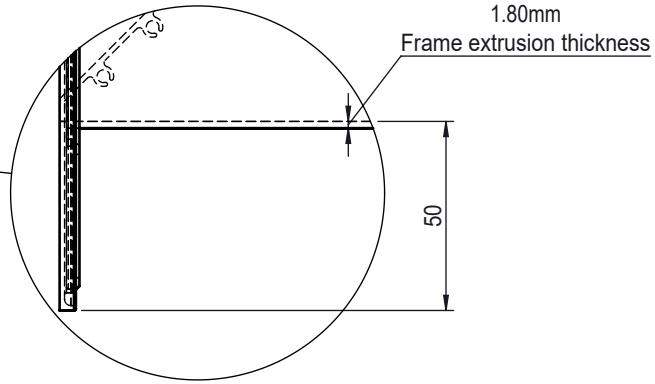
(Dim.) - Inspection/Critical Dimension

1675 Flanged external louvre grille assembly









Note:
Minimum nominal neck size: 200mm wide x 200mm high.
Maximum nominal neck size: 2000mm wide x 2000mm high.

Revision Table				
Rev	Date	Description	DRN	CHKD
A	03/02/2021	First issue	BG	CJC

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Tolerances to ISO 2768-m All dimensions in mm (unless otherwise stated)	
0.5 up to 6	±0.1
over 6 up to 30	±0.2
over 30 up to 120	±0.3
over 120 up to 400	±0.5
over 400 up to 1000	±0.8
over 1000 up to 2000	±1.2

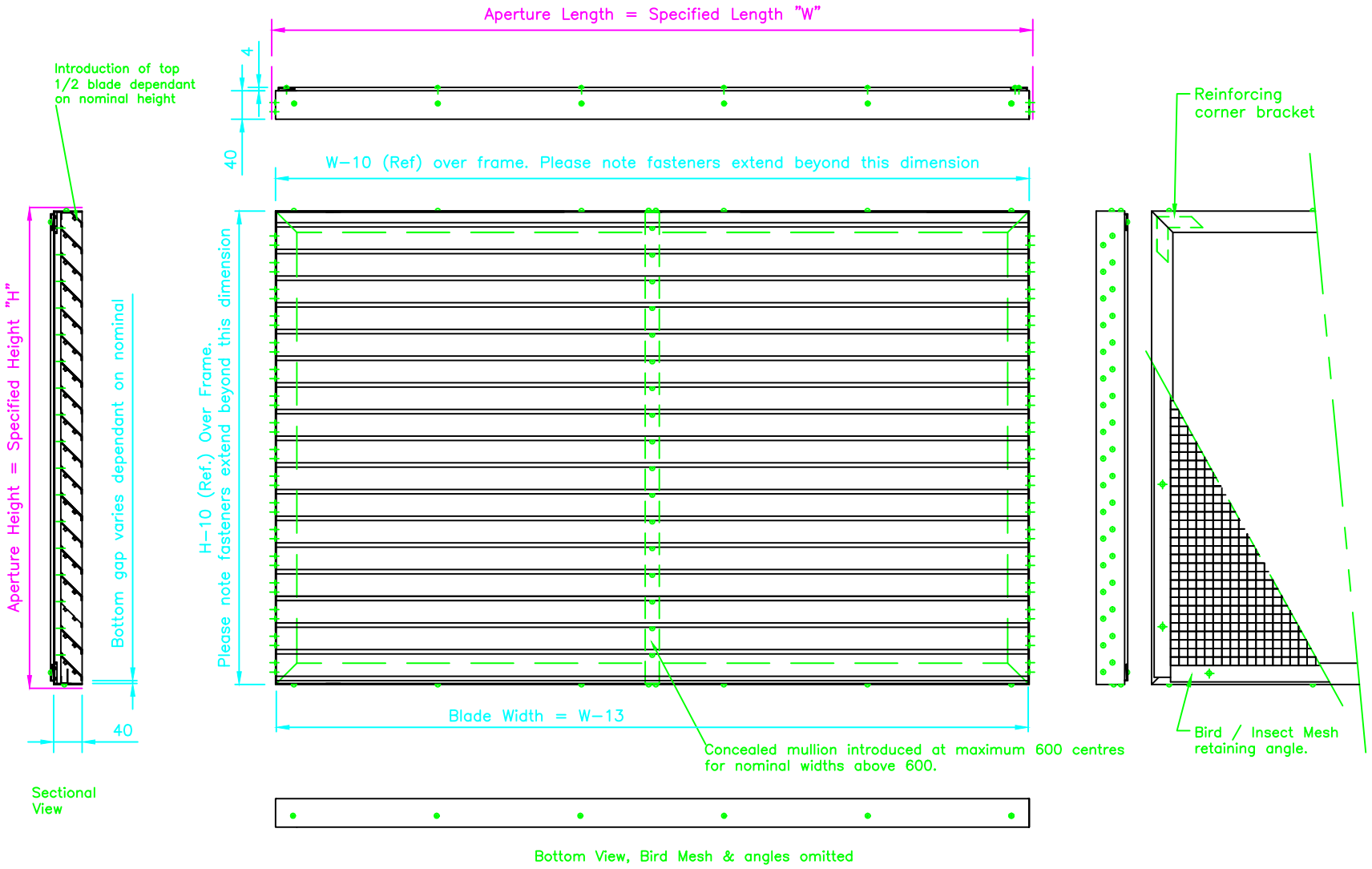
Title:
D1600 Series
External louvre grille assembly
1638 - 1650 - 1675
Customer Drawing

Material: **Type 6063-T6 extruded aluminium**

Scale: **1:7** | Format: **A4**
Sheet: **3 of 3** | Mass [g]: **N/A**
Finish: **Mill. Special finishes available**
Dwg. No. : **D1600 CD001**

DRG. No. 1638–008	DO NOT SCALE	Projection	IF IN DOUBT, ASK

ISSUE	DATE	REVISION
		First Issue
A	18:09:12	H Dim Added
B	11:07:13	Redrawn



General Construction
Frame & blades 1.3 Thick Extrusion.

Mitred Frame corners reinforced by corner bracket.

Blades supported by internal pressed steel mullions at widths greater than 600.

Bird mesh mounted to rear of louvre frame, additional Insect Mesh is Optional.

Finish– Polyester Powder coat to specified colour.

Minimum recommended size = 200 x 200.
Maximum size in single section is 1800 x 600, or 1200 x 1200.

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TOLERANCES *(Unless Otherwise Stated)*
0.0mm ± 0.5 mm
0.00mm ± 0.2 mm
0.000mm ± 0.1 mm
ANGLES ± 0.5 Degrees

Advanced Air (U.K.) Limited
Reg'd Office: Burrell Way, PO BOX 153
Thetford, Norfolk, IP24 3WB, ENGLAND
Telephone : (01842) 765657 Fax : (01842) 753493

TITLE :

1638 Louvre Recessed Frame
Generic Drawing
Single Section Construction

Submittal Drawing

Drawn : DBs	Checked :
Scale : 1:6	Date : 11:07:13
Drg. No. : 1638–008	A3