



### LEGEND

- UNINSULATED DUCTWORK. DUCT SIZES ARE SHEET METAL SIZES.
- G.S.S. DUCTWORK WITH 40mm THICK INTERNAL PERF FOIL FACED INSULATION. (R=1.2)
- G.S.S. DUCTWORK WITH 40mm THICK EXTERNAL FOIL FACED INSULATION. (R=1.2)
- G.S.S. DUCTWORK WITH 75mm THICK INTERNAL PERF FOIL FACED INSULATION. (R=2.0)
- G.S.S. DUCTWORK WITH 75mm THICK EXTERNAL FOIL FACED INSULATION. (R=2.0)
- G.S.S. DUCTWORK WITH 40mm THICK EXTERNAL FLYRE WRAP & 40mm THICK INTERNAL PERF FOIL FACED INSULATION. (R=1.2)
- G.S.S. DUCTWORK WITH 100mm THICK INTERNAL PERF FOIL FACED INSULATION. (R=3.0)
- FLEXIBLE DUCTWORK WITH 38mm THICK EXTERNAL INSULATION AND VAPOUR BARRIER. (R=1.0) MAXIMUM DUCTWORK LENGTH: 3 METRES.
- AIR DIFFUSION SYMBOL. REFER SCHEDULE.
- HEIGHT OF DUCT ABOVE AFL.
- DUCT NUMBER.
- CONTROL STATION MOUNTED AT 1500 AFL.
- TEMPERATURE SENSOR MOUNTED AT 1500 AFL. CW WITH 10M OF COIL LEFT ON TOP OF VAV. PUSH BUTTON MOUNTED AT 1500 AFL.
- DRAINED TUNDISH BY OTHER TRADES.
- 600x600 ACCESS PANEL UNLESS NOTED OTHERWISE.

- ### DUCT CONSTRUCTION NOTES.
- ALL DUCTWORK SIZES ARE SHEETMETAL SIZES.
  - ALL RADIUS BENDS AND TRANSITIONS SHALL HAVE THE FOLLOWING MINIMUM STRAIGHTS: BARE AND EXTERNAL INSULATION - 50mm. 50 INTERNAL INSULATION - 50mm. 75 INTERNAL INSULATION - 75mm. 100 INTERNAL INSULATION - 100mm.
  - ALL THROATS ON SQUARE BENDS SHALL BE 100 LONG UNLESS NOTED OTHERWISE.
  - DUCT ID LABELS ON TOP OF THE DUCT (NOT TO BE SEEN WHEN INSTALLED).
  - REFER TO REFLECTED CEILING PLAN FOR SET OUT LOCATIONS OF DIFFUSERS.
  - EXPOSED DUCTWORK TO BE HUNG WITH 'Z' BRACKET.
  - SPIRAL DUCTWORK SERVING C/H'S TO BE 200mm LONGER TO ALLOW FOR ON SITE ADJUSTMENTS.

FOR CONTINUATION REFER DWG M-L7-201

**LEVEL 7 PART LAYOUT - M - 200**  
1:50

#### RADIAL SWIRL DIFFUSER SCHEDULE - DWG...

QTY	TAG	DESCRIPTION	SWIRL NECK DIA	SWIRL FACE DIA
18	SW1	TROX TCS 450	350	475

#### SUPPLY AIR DIFFUSION SCHEDULE - DWG ENV-M-L7-200

QTY	TAG	DESCRIPTION	CH HEIGHT	NECK LENGTH	NECK WIDTH	SPIGOT SIZE	COMMENTS
1	LB4	2 SLOT LINEAR BOOT ONLY	250	700	100	200	
1	LS4	2 SLOT LINEAR SLOT ONLY		700	96		

#### VAV SCHEDULE - DWG ENV-M-L7-200

TAG	MAKE	MODEL	MAX FLOW	MIN FLOW	MAX INTLET VELOCITY	MIN INTLET VELOCITY	HEATING kW	COMMENTS
VV-L7-C1	JOHNSON	TSS-7T-000-00-12-R-30A	465 L/s	186 L/s	7	3	-	
VV-L7-C2	JOHNSON	TSS-7T-000-00-10-R-30A	320 L/s	128 L/s	6	3	-	
VV-L7-S1	JOHNSON	TSS-7T-000-E1-10-R-30A	360 L/s	144 L/s	7	3	1.50	
VV-L7-S2	JOHNSON	TSS-7T-000-E1-10-R-30A	350 L/s	140 L/s	7.1	2.8	1.50	

#### DOOR GRILLE SCHEDULE - DWG ENV-M-L7-200

QTY	TAG	DESCRIPTION	NECK WIDTH	NECK HEIGHT	DOOR THICKNESS
1	DG1	DOOR GRILLE	450	150	TBC
1	DG2	DOOR GRILLE	600	200	TBC

#### MSD SCHEDULE - DWG ENV-M-L7-200

TAG	MAKE	MODEL	STYLE	WIDTH	HEIGHT	LENGTH	COMMENTS
MSD.L7.06	BULLOCK	6700	BLADE	250	200	165	
MSD.L7.07	BULLOCK	6700	BLADE	375	300	165	
MSD.L7.08	BULLOCK	6700	BLADE	1400	600	165	

#### FIRE DAMPER SCHEDULE - DWG ENV-M-L7-200

TAG	MAKE	MODEL	TYPE	STYLE	WIDTH	HEIGHT	COMMENTS
FDL7.05	BULLOCK	4900	DUCT - DUCT	CURTAIN	300	250	WALL THICKNESS TBC
FDL7.06	BULLOCK	4900	DUCT - DUCT	CURTAIN	250	200	WALL THICKNESS TBC
FDL7.07	BULLOCK	4900	DUCT - DUCT	CURTAIN	300	250	WALL THICKNESS TBC
FDL7.08	BULLOCK	4900	DUCT - DUCT	CURTAIN	375	300	WALL THICKNESS TBC

#### EXHAUST AIR DIFFUSION SCHEDULE - DWG ENV-M-L7-200

QTY	TAG	DESCRIPTION	CH HEIGHT	FACE LENGTH	FACE WIDTH	NECK LENGTH	NECK WIDTH	SPIGOT SIZE	COMMENTS
1	TE1	HALF CHEVRON GRILLE	300	245	245	200	200	150	CW WITH OBD
1	TE2	HALF CHEVRON GRILLE	350	295	295	250	250	200	CW WITH OBD
1	TE3	HALF CHEVRON GRILLE ONLY	294	294	294	250	250		CW WITH OBD

NO	REV	L/S	DATE	BY	CHK
8		AS CONSTRUCTED	8.11.19	IW	PC
7		ISSUED FOR CONSTRUCTION	30.07.19	CO	PC
6		SCHEDULE REVISIONS	19.07.19	CO	PC
5		DUCT AND BOOTS DETAILS ADDED	18.07.19	IW	PC
4		REVISED DUCT SIZES	04.07.19	CO	PC
3		ISSUED FOR CONSTRUCTION	1.07.19	IW	PC
2		AREA ON HOLD EXTENDED	24.06.19	CO	PC
1		ISSUED FOR CONSTRUCTION	21.06.19	CO	PC

CONTRACTOR:

**ENVAR**  
Engineers and Contractors Pty. Ltd.  
ACN 009 407 630 ABN 35 009 407 630  
47 Furnace Road  
Welshpool W.A. 6106  
Tel: (08) 9350 5377  
Fax: (08) 9458 7484  
envar@envargroup.com.au

TITLE:  
**125 MURRAY STREET  
125 MURRAY STREET, PERTH  
LEVEL 7 PART LAYOUT  
MECHANICAL SERVICES**

DATE	SCALE	DRAWING NO.	REV.
8.11.19	AS NOTED @		
DRAWN: CO	CHECKED: PC/NB	<b>ENV-M-L7-200</b>	<b>8</b>