

Diagram illustrating the heater assembly with the following specifications and callouts:

- Dimensions:**
 - Overall width: 900 NOMINAL
 - Heater width: 250
 - Access side width: 250
- Callouts:**
 - MIN 250 AS PER AS/NZS 3102:2002
 - HIGH LIMIT THERMOSTAT TO BE MOUNTED AT THE TOP OF THE HEATER OR AS PER TMSD-13.6
 - DENOTES HEATER CONNECTION & ACCESS SIDE FOR SERVICE
 - AIR FLOW
 - AFS (AIR FLOW SWITCH)
 - DUCT LINED INTERNALLY WITH NON COMBUSTIBLE MAT'L WITH A THERMAL CONDUCTANCE OF NOT GREATER THAN $30\text{W/m}^2\text{K}$ AND 100°C (SIMILAR TO KA0BOARD)
 - S (Sensor)
- Standards:**
 - AIR FLOW SWITCH IN ACCORDANCE WITH CLAUSE 7.3 OF AS/NZS 3102:2002.

Figure 1 consists of two diagrams: a horizontal duct elevation and a top view. The elevation view shows a duct with a heater element, keyboard, and thermostat. The keyboard is labeled "KEYBOARD OR SIMILAR" and has a width of "250mm MIN". The heater element is labeled "HEATER ELEMENT" and has a height of "1/3 D". The thermostat is labeled "HEATER SAFETY THERMOSTAT" and is offset by "X mm" from the heater element. The direction of airflow is indicated by an arrow labeled "AFS". The top view shows the duct's cross-section with dimensions "D" and "1/3 D", and a heater safety thermostat.

[illegible]

ACTUATOR IS OPTIONAL. VCD SHAFT IS TO EXTEND PAST PLATE COVERING LINKAGES.

NOTE:
WHERE ACTUATORS ARE REQUIRED, THESE ARE INSTALLED BY BMCS SUBCONTRACTOR

FIX VCD TO DUCT AT TDC FLANGES

INTERNAL INSULATION PROTECTED WITH PERFORATED METAL

300

300

INTERNAL INSULATION PROTECTED WITH PERFORATED METAL

INSULATE GAP

MATCHING FLANGE TO BE STANDARD TDC SEAL.

M

Diagram illustrating the connection of a VAV discharge duct to a VAV box. The diagram shows a side view of the duct assembly, including the TDC (Top Duct Connection), the VAV BOX, and the discharge duct. The duct is labeled with dimensions 25.00-50.00 INT. A note specifies: "SIZE OF VAV DISCHARGE DUCT SHALL BE THE SAME SIZE AS VAV DISCHARGE CONNECTION FOR THE FIRST 1440 LENGTH. FOR MAINTENANCE S/A VOLUME & VELOCITY TRANSITION AFTER INSULATED LENGTH".

Diagram illustrating the connection of a VAV discharge duct to a VAV box, showing two cross-sectional views. The duct is labeled with dimensions 38mm "DUCTMATE" FLANGE and 50. The VAV BOX is labeled with dimensions 38mm "DUCTMATE" FLANGE and 50. The duct is labeled with dimensions 25.00-50.00 INT.

TO SUIT BULKHEAD CONSTRUCTION CONC. FLOOR SLAB

700

350

ON CONNECTION TYPE SIZE AND CONFIGURATION

ALTERNATE CONNECTION TO PLENUM

PREFERRED CONNECTION TO PLENUM

ROUND OR OVAL SPIGOT C/W VOLUME CONTROL DAMPER

FLEXIBLE DUCTWORK MUST NOT BE COMPRESSED OR SQUASHED OUT OF ROUND BY MORE THAN 50mm

13mm FOAM INSULATION

PLASTERBOARD CEILING AND BULKHEAD LINING. BY OTHERS

SUPPLY AIR GRILLE

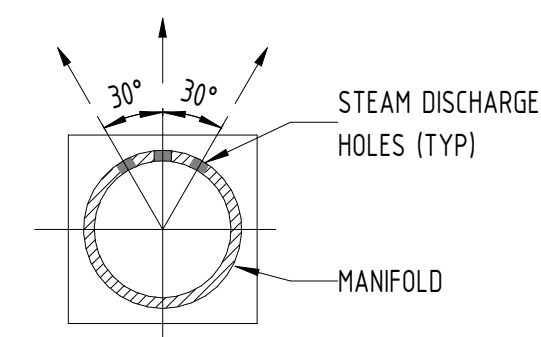
GRILLE TO BE LOCATED IN THE BULKHEAD VERTICAL FACE MID-WAY BETWEEN THE LOWER CEILING AND THE LOWEST EDGE OF THE CORNICE, THEN GRILLE IS TO BE LOCATED MID-WAY BETWEEN THE TWO CEILING LEVELS.

EQ. DIM. 251

NICK

EQ. DIM. 252

NOTE:
BULKHEAD FRAMING IS TO BE CONSTRUCTED TO ENABLE GRILLE TO BE LOCATED
IN THE DESIRED LOCATION IN THE DESIRED POSITION. BOTH VERTICALLY AND
HORIZONTALLY



EXHAUST FAN TO SCHEDULE

UPSTAND SUPPORT FRAMING AND UNDER FLASHING BY ROOFING CONTRACTOR, OVER FLASHING BY 'TRIPLE-M'

SEAL DUCT TO FAN WITH CELL FOAM TAPE

DUCT TO FINISH 25mm BELOW ROOF LINE

SHEETMETAL DUCT FIXED TO UNDERSIDE OF ROOF STRUCTURE VIA ANGLE FIXED TO BOTH

DUCTS TO BE FIXED TOGETHER AND SEALED AIR TIGHT

MAIN DUCT SIZE AS PER DRAWING

DUCT SIZE 10mm SMALLER THAN MAIN DUCT & TO BE MADE FROM 18 OR 20 GAUGE SHEETMETAL

50mm RETURN ON DUCT

25mm MINIMUM

ROOF

EXHAUST FAN

75mm TURNOUT ON
END OF DUCT

75mm WIDE UPSTAND TO
SUPPORT FAN WEIGHT BY
OTHERS

ROOF LINE

PURLINS

ROOF BEAMS

FAN UPSTAND SUPPORTED
FROM ROOF BEAMS

SEAL DUCT TO FAN WITH
CELL FOAM TAPE
OVERLAPPING

FAN BASE PROVIDES
UNDERLASHING
BY OTHERS

UN LAGGED DUCT
SLEEVE

LAGGED TRANSITION TO
HAVE RAW EDGE RETURN
AND TO SLIDE OVER
UNLAGGED DUCT SLEEVE
THEN SEALED AIR TIGHT.

KEY PLAN

The diagram shows a site layout with a building footprint, parking spaces, and a shaded area labeled 'S1'. The plan includes a grid with columns labeled A, D, G, I, K and rows labeled 01, 03, 05. A north arrow is present in the top right corner.

[illegible]

CAD FILE NAME: _____

ARCHITECT _____

CLIENT

BUILDER

PROJECT

OES SAMPLE

Enter address here

MECHANICAL SERVICES

TITLE
MECHANICAL SERVICES
DETAIL SHEET 03

APP'N	DATE	DSGN CHECK	DATE
Approver		Designer	
DRAWN	DATE	DRG CHECK	DATE
Author		Checker	
PROJECT NUMBER			SCALE@A1
-			NTS
DRAWING NUMBER			ISSUE
MES-XXXX-00-004			

