

LEGEND OF SYMBOLS

DUCTING

DUCT COMPLETE WITH DUCT TAG

AIRSIDE DIMENSION. VIEWED SURFACE SHOWN AS FIRST DIMENSION

DUCT CONSTRUCTION TYPE.

DUCT AIR STREAM TYPE.

01

02

03

04

05

06

07

08

09

10

11

12

UNLINED/UNINSULATED DUCTWORK

INTERNALLY LINED DUCTWORK (ACOUSTIC) - R0.8 (MAX 25mm)

INTERNALLY LINED DUCTWORK (ACOUSTIC) - R1.2 (MAX 40mm)

INTERNALLY LINED DUCTWORK (ACOUSTIC) - R2.0 (MAX 75mm)

INTERNALLY LINED DUCTWORK (ACOUSTIC) - R3.0 (MAX 100mm)

EXTERNALLY INSULATED DUCTWORK (THERMAL) - R0.8 (MAX 25mm)

EXTERNALLY INSULATED DUCTWORK (THERMAL) - R1.2 (MAX 40mm)

EXTERNALLY INSULATED DUCTWORK (THERMAL) - R2.0 (MAX 75mm)

EXTERNALLY INSULATED DUCTWORK (THERMAL) - R3.0 (MAX 100mm)

EXTERNALLY FIRE WRAPPED DUCTWORK (MAX 40mm) - R2.0, FR 2hr

EXTERNALLY FIRE WRAPPED (MAX 40mm) AND INTERNALLY LINED (ACOUSTIC) (MAX 25mm) DUCTWORK - R2.0, FR 2hr

EXTERNALLY FIRE WRAPPED (MAX 40mm) AND INTERNALLY LINED (ACOUSTIC) (MAX 40mm) DUCTWORK - R3.0, FR 2hr

CIRCULAR SPIRAL WOUND DUCTWORK

DUCTWORK RISER

DUCTWORK DROPPER

NCC COMPLIANT INSULATED FLEXIBLE DUCTING

600x600x100mm PANEL FILTER

OPPOSED BLADE DAMPER (P & S)

STREAM SPLITTER DAMPER

FIRE DAMPER

BRANCH TAKE OFF

PROPRIETARY BRANCH TAKE OFF (90°) (COMPLETE WITH BUTTERFLY BALANCING DAMPER)

BACKDRAFT DAMPER

MOTORISED VOLUME CONTROL DAMPER

DIRECTION OF AIR FLOW

AIR CONDITIONING CONTROL PANEL MOUNTED 1500mm ABOVE FLOOR LEVEL. CONFIRM EXACT LOCATION WITH ARCHITECTS

AIR CONDITIONING CONTROL PANEL COMPLETE WITH INTEGRAL TEMPERATURE SENSOR MOUNTED 1500mm ABOVE FLOOR LEVEL. CONFIRM EXACT LOCATION WITH ARCHITECTS

TEMPERATURE SENSOR. (1500mm ABOVE FLOOR LEVEL. CONFIRM FINAL LOCATION ON SITE UNLESS NOTED OTHERWISE)

CARBON MONOXIDE SENSOR

300x300/450x450/600x600 CEILING ACCESS PANEL

DOOR RELIEF GRILLE BY BUILDER

0.05 - 600x150mm

0.1 - 600x250mm

0.15 - 600x400mm

0.2 - 600x500mm

0.25 - 600x1000mm

U - 40mm UNDERCUT TO DOOR

REGISTERS

REGISTER TAG

REGISTER DUCT SYSTEMS (SEE BELOW FOR DESIGNATION)

REGISTER TYPE (SEE BELOW FOR DESIGNATION)

REGISTER DIMENSION (SEE BELOW FOR CLARIFICATION)

AIR FLOW RATE

DUCTING SYSTEMS

S - SUPPLY AIR DUCTWORK

R - RETURN AIR DUCTWORK

O - OUTSIDE AIR DUCTWORK

E - KITCHEN EXHAUST DUCTWORK

E - GENERAL EXHAUST DUCTWORK

E - TOILET EXHAUST DUCTWORK

E - OTHER EXHAUST DUCTWORK

T - TRANSFER AIR DUCTWORK

REGISTER TYPES

GRILLE TYPE 1 - LOUVRE FACE DIFFUSER

GRILLE TYPE 3 - LINEAR BAR GRILLE (4 - DOUBLE DEFLECTION GRILLE, 6 - HALF CHEVRON GRILLE, 7 - WEATHERPROOF LOUVRE ETC)

GRILLE TYPE 5 - EGGCRATE TYPE GRILLE

GRILLE TYPE 8 TO 12 - LINEAR SLOT DIFFUSER (1 SLOT TO 5 SLOT)

WALL MOUNTED GRILLE

DIMENSIONS

300/600

NECK DIMENSION x FACE DIMENSION APPLIES TO GRILLE TYPE 1

600x600

FACE (WIDTH) DIMENSION x FACE (LENGTH) DIMENSION APPLIES TO GRILLE TYPE 2-7

1x1200

No. of SLOTS x LENGTH DIMENSION APPLIES TO GRILLE TYPE 8-12

ø450

SWIRL NECK DIAMETER DIMENSION APPLIES TO GRILLE TYPE 13-14

FLEXIBLE DUCTWORK SCHEDULE (UNLESS OTHERWISE STATED)	
FLOW L/s	SIZE (mm)
55-95	Ø200
100-150	Ø250
155-210	Ø300
215-290	Ø350
295-375	Ø400
380-480	Ø450
485-550	Ø500

PIPEWORK

REFRIGERANT PIPEWORK (INSULATED)

CONDENSATE DRAIN

PIPEWORK RISER

PIPEWORK DROPPER

TUNDISH

IN-WALL TUNDISH

ABBREVIATIONS

ACC

ARG

BD

DDG

EAC

EAG

EAL

ECG

FCU

FD

GEF

LBG

LDF

LSD

MDO

OAC

OAF

OAG

OAL

PAC

RAG

SAD

SAG

SSD

TEF

VCD

WPL

(B)

FA/TB

FB/TA

AIR COOLED CONDENSER

AIR RELIEF GRILLE

BUTTERFLY DAMPER

DOUBLE DEFLECTION GRILLE

EXHAUST AIR COWL

EXHAUST AIR GRILLE

EXHAUST AIR LOUVRE

EGGCRATE GRILLE

FAN COIL UNIT

FIRE DAMPER

GENERAL EXHAUST FAN

LINEAR BAR GRILLE

LOUVRE FACED DIFFUSER

LINEAR SLOT SUPPLY AIR DIFFUSER

MULTIPLE DIFFUSER OUTLET

OUTSIDE AIR COWL

OUTSIDE AIR FAN

OUTSIDE AIR GRILLE

OUTSIDE AIR LOUVRE

PACKAGED AIR CONDITIONING UNIT

RETURN AIR GRILLE

SUPPLY AIR DIFFUSER

SUPPLY AIR GRILLE

STREAM SPLITTER DAMPER

TOILET EXHAUST FAN

VOLUME CONTROL DAMPER

WEATHERPROOF LOUVRE

BLANKED OFF DUCTWORK

DENOTES FROM ABOVE, TO BELOW

DENOTES FROM BELOW, TO ABOVE

GENERAL NOTES

1.

THE MECHANICAL SERVICES DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS, DETAILS AND OTHER ENGINEERING DRAWINGS AND SPECIFICATION AND WITH OTHER SUCH WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.
2.

IF ANY DISCREPANCY OCCURS ON THE ENGINEERS DRAWINGS OR BETWEEN DRAWING AND SPECIFICATION, THE CONTRACTOR SHALL DURING TENDERING ASSUME THE LARGER/GREATER. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
3.

SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER AND BE INCLUDED IN ANY TENDER.
4.

UNLESS NOTED OTHERWISE ALL DIMENSIONS ARE IN MILLIMETRES. ALL DUCTWORK SIZES SHOWN ARE CLEAR INTERNAL DIMENSIONS ONLY.
5.

ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE RELEVANT AUSTRALIAN STANDARDS, CODES AND THE CONTRACT SPECIFICATION.
6.

ALL DUCTWORK SHALL CONFORM TO THE STANDARDS OF THE SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (S.M.A.C.N.A.).
7.

ALL ROUTES, INCLUDING CONDENSATE AND REFRIGERATION PIPEWORK ARE SHOWN INDICATIVE AND ARE FOR PRICING PURPOSES ONLY. FINAL ROUTES ARE TO BE CONFIRMED AND COORDINATED ON SITE WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
8.

DO NOT SCALE OFF DRAWINGS, ALL DIMENSIONS SHALL BE VERIFIED FROM THE ARCHITECTS DRAWINGS AND BY ACTUAL SITE MEASUREMENTS PRIOR TO MANUFACTURING AND INSTALLING MECHANICAL SERVICES.
9.

THE MECHANICAL TRADE SHALL BE RESPONSIBLE FOR SETTING OUT OF THEIR WORKS BY COORDINATING WITH ALL ASSOCIATED TRADES AND SERVICES.
10.

ALL REFRIGERATION PIPEWORK HAS BEEN DRAWN AS A SINGLE PIPE LINE FOR CLARITY ONLY.
11.

ALL REFRIGERANT AND CONDENSATE PIPEWORK HAS BEEN DRAWN INDICATIVELY ONLY. ALL PIPEWORK ROUTES SHALL BE COORDINATED ON SITE.

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TENDER ISSUE

TO BE PRINTED IN COLOUR

THE PURPOSE OF THIS DOCUMENT IS INTENDED TO BE VIEWED OR PRINTED IN COLOUR FOR THE FULL EXTENT OF THE SCOPE OF WORKS TO BE SHOWN.



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PROJECT

HYDE PARK PLACE

248 UNLEY ROAD, HYDE PARK

MECHANICAL SERVICES

DRAWING

GENERAL NOTES AND LEGEND OF SYMBOLS

NOT FOR CONSTRUCTION PURPOSES UNLESS STAMPED FOR CONSTRUCTION. VERIFY DIMENSIONS AND LEVELS ON SITE BEFORE SETTING OUT. DO NOT SCALE. REFER TO FIGURED DIMENSIONS - IN mm UNLESS OTHERWISE STATED.

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NTS	Drawn: JD	2 of 15	MAY 2019
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