



Lvl 01 - First Floor - Block E  
SCALE : 1 : 100

First Floor Extract Air Fans							
Item No.	QTY	Description	Size Ø	Airflow (l/s)	Static Pressure (Pa)	Speed (RPM)	Phase
EAF-01	2	Expelair PX6 Ceiling Extract Fan	200 mm	68	10 Pa	1	35 W

First Floor Constant Volume Terminals					
Item No.	QTY	Description	Nominal Size LxW / Ø	Flexible Size Ø	Air Volume
T1	8	METAL EXTRACT AIR DISC VALVE	Ø 200	-	-
T4	28	RAG 45°	600x600	-	400 max
T3	0	METAL SUPPLY AIR DISC VALVE	600x600	150	60
T5	19	METAL SUPPLY AIR DISC VALVE	600x600	200	88
T6	1	METAL SUPPLY AIR DISC VALVE	600x600	200	120
T7	41	METAL SUPPLY AIR DISC VALVE	600x600	250	140

Block E First Floor In-Ceiling Fan Coil Units				
Item No	QTY	Description	Supply Air (l/s)	Cooling Capacity (kW)
IU.E.1.1	1	Concealed ceiling mounted	140 l/s	4.8 kW
IU.E.1.2	1	Concealed ceiling mounted	140 l/s	4.8 kW
IU.E.1.3	1	Concealed ceiling mounted	140 l/s	4.8 kW
IU.E.1.4	1	Concealed ceiling mounted	87 l/s	3.0 kW
IU.E.1.5	1	Concealed ceiling mounted	140 l/s	4.8 kW
IU.E.1.6	1	Concealed ceiling mounted	87 l/s	3.0 kW
IU.E.1.7	1	Concealed ceiling mounted	140 l/s	4.8 kW
IU.E.1.8	1	Concealed ceiling mounted	175 l/s	6.8 kW
IU.E.1.9	1	Concealed ceiling mounted	140 l/s	4.8 kW
IU.E.1.10	1	Concealed ceiling mounted	140 l/s	4.8 kW
IU.E.1.11	1	Concealed ceiling mounted	140 l/s	4.8 kW
IU.E.1.12	1	Concealed ceiling mounted	140 l/s	4.8 kW
IU.E.1.13	1	Concealed ceiling mounted	87 l/s	3.0 kW
IU.E.1.14	1	Concealed ceiling mounted	140 l/s	4.8 kW
IU.E.1.15	1	Concealed ceiling mounted	140 l/s	4.8 kW
IU.E.1.16	1	Concealed ceiling mounted	175 l/s	6.8 kW
IU.E.1.17	1	Concealed ceiling mounted	140 l/s	4.8 kW
IU.E.1.18	1	Concealed ceiling mounted	175 l/s	6.8 kW
IU.E.1.19	1	Concealed ceiling mounted	140 l/s	4.8 kW
IU.E.1.20	1	Concealed ceiling mounted	140 l/s	4.8 kW
IU.E.1.21	1	Concealed ceiling mounted	140 l/s	4.8 kW
IU.E.1.22	1	Concealed ceiling mounted	140 l/s	4.8 kW
IU.E.1.23	1	Concealed ceiling mounted	87 l/s	3.0 kW
IU.E.1.24	1	Concealed ceiling mounted	140 l/s	4.8 kW
IU.E.1.25	1	Concealed ceiling mounted	140 l/s	4.8 kW
IU.E.1.26	1	Concealed ceiling mounted	87 l/s	3.0 kW
IU.E.1.27	1	Concealed ceiling mounted	140 l/s	4.8 kW
IU.E.1.28	1	Concealed ceiling mounted	87 l/s	3.0 kW

1. GENERAL NOTES:

- THIS DRAWING FORMS PART OF THE SPECIFICATION AND MUST BE READ IN CONJUNCTION WITH THE SAME.
- ALL DUCTWORK TO BE MANUFACTURED IN ACCORDANCE WITH SANS-1238-2005 & ANS-10173-2003. LOW VELOCITY DUCT STANDARDS.
- ALL DUCT SIZES SHOWN ARE ACTUAL SHEETMETAL SIZES.
- ALL SUPPLY & RERURN DUCTS TO BE EXTERNALLY INSULATED WITH 25mm FRK.INSULATION. UNLESS OTHERWISE SPECIFIED.
- ALL VENTILATION DUCTS TO BE UNINSULATED UNLESS SPECIFIED.
- ALL EXPOSED DUCTS TO BE PAINTED TO SPECIFICATIONS.
- ALL BENDS TO HAVE MINIMUM INTERNAL RADIUM 150mm, AND SPLITTERS UNLESS OTHERWISE SPECIFIED.
- ALL ROUND DUCT BENDS UP TO Ø500mm - RADIUS 200mm AND OVER Ø500mm - RADIUS 300mm.
- ALL DUCT SHOES TO BE 150mm LONG @ 45°.
- ALL SPIGOTS TO BE 100mm LONG, UNLESS OTHERWISE STATED.
- REFRIGERANT PIPING TO BE COPPER AND INSULATED.
- ALL REFRIGERANT PIPING TO BE NEATLY ROUTED AND INSTALLED ON GALVANIZED CABLE TRAYS, UNLESS OTHERWISE SPECIFIED.
- ALL DRAINS TO BE Ø32mm RIGID PVC WITH A 1:100 MINIMUM FALL.
- ALL SMOKE EXTRACT DUCTING TO BE 1mm MINIMUM THICKNESS.
- ALL DUCTING ENTERING THE BUILDING WILL BE LEVELED IN SUCH A WAY THAT THE DUCTING SLOPES AWAY FROM THE BUILDING AT A FALL OF 1:100.

2. BUILDERSWORK NOTES:

- ALL OPENINGS TO BE 100mm BIGGER THAN DUCT SIZES SHOWN AND TO BE MADE GOOD AFTER DUCTING HAS BEEN INSTALLED - BY BUILDER.
- ALL OPENINGS TO BE 50mm BIGGER THAN GRILLE SIZES WHICH INCLUDES A 20mm THICK TIMBER FRAME ALL ROUND OPENING - BY BUILDER.
- SLEEVES IN WALLS, IN SLABS AND BEAMS FOR REFRIGERANT PIPES AND DRAINS TO BE MADE GOOD AFTER SERVICES HAVE BEEN INSTALLED - BY BUILDER.
- ALL PLANTROOMS TO HAVE FLOOR DRAIN AND WATER POINT.

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LEGEND:

- CASSETTE
- MIDWALL
- INVERTER TYPE OUTDOOR UNIT
- INLINE TUBE FAN
- CEILING FAN
- DISC VALVE
- DOOR GRILLE
- COLD WATER SUPPLY PIPING
- WARM WATER SUPPLY PIPING

REVISIONS				
Rev	Date	By	Description	App
1	2022/09/07	W.DK	ISSUED FOR TENDER	K.DJ

DRAWING STATUS: FOR TENDER

**PLANTECH**  
ELECTRICAL, MECHANICAL & FIRE CONSULTING ENGINEERS

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BROOKLYN  
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0181

PROJECT: BROOKLYN SARS HVAC SERVICES

TITLE: BLOCK E - FIRST FLOOR HVAC LAYOUT

PROJECT No. A2121  
DWG No. MH- 010- E- L1C  
REV: 1  
SHEET SIZE: A1

SCALE: N.T.S.  
DESIGNED: K. DE JAGER  
DRAWN: W. DE KLERK  
CHECKED: K. DE JAGER  
DATE: 2022/08/11  
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SHEET: 1 OF 1