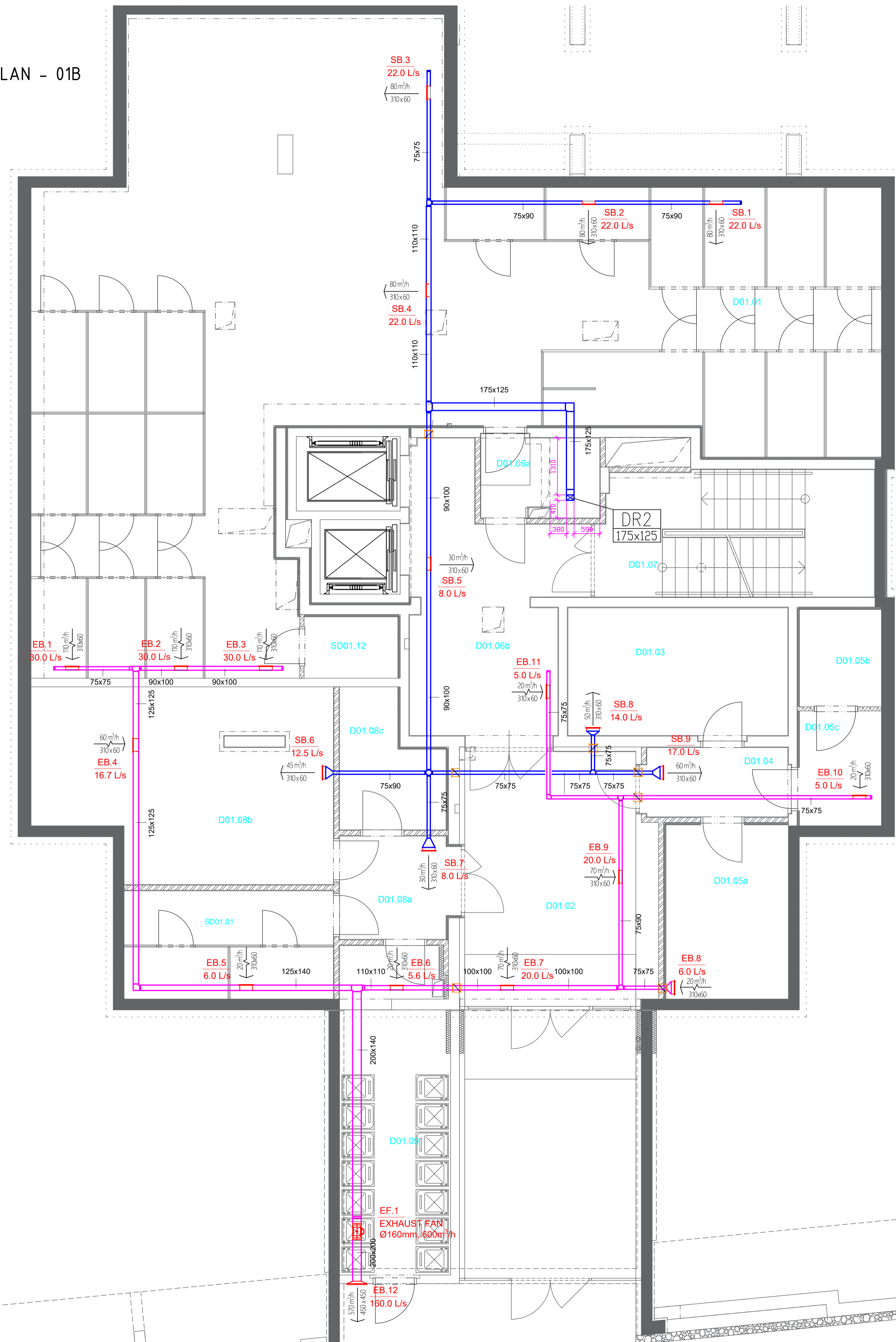


FLOOR PLAN - 01B



LEGEND OF MATERIALS

- S4.23**
13.9 L/s | 70 m³/h
310x60 → AIR SUPPLY QUANTITY, LABEL
DISTRIBUTION ELEMENT DIMENSION
- E4.3**
19.4 L/s | 70 m³/h
Ø 240 → EXHAUST AIR QUANTITY, LABEL
DISTRIBUTION ELEMENT DIMENSION
- DIGESTER
SEPARATED CONNECTION
- DOOR WITHOUT THRESHOLDS, DR UNDERCUT WITH GAP OF 10-15 mm
- DUCTS WITH FIRE INSULATION / HEAT INSULATION
- DR1**
75x75 → DUCT RISERS LABEL
DIMENSIONS OF DUCT RISERS
- L 2660** → DISTANCE OF LOWER EDGE OF AIR-CONDITIONING DEVICE / CEILING FROM CLEAN FLOOR
- REFRIGERANT DISTRIBUTION - RETURN PIPE
- REFRIGERANT DISTRIBUTION - SUPPLY PIPE
- EDGE OF CEILING
- FIRE DAMPER
- AIR SUPPLY DUCT
- AIR SUPPLY DUCT + THERMAL INSULATION
- AIR EXHAUST DUCT
- 125ø
ROUND DUCT DIMENSION
- R4** → PIPE RISERS WITH LABEL
- AHU 2.03** → AIR HANDLING UNIT
NUMBER OF UNIT
- EF.1**
SF.1 → EXHAUST FAN
- OUTDOOR COOLING UNIT

NOTES

- MAXIMUM HINGE SPACING 3 m
- UNITS AND FANS SAVE FLEXIBLE
- DUCTS ARE ROUTED FREELY UNDER THE CEILING

3D VIEW

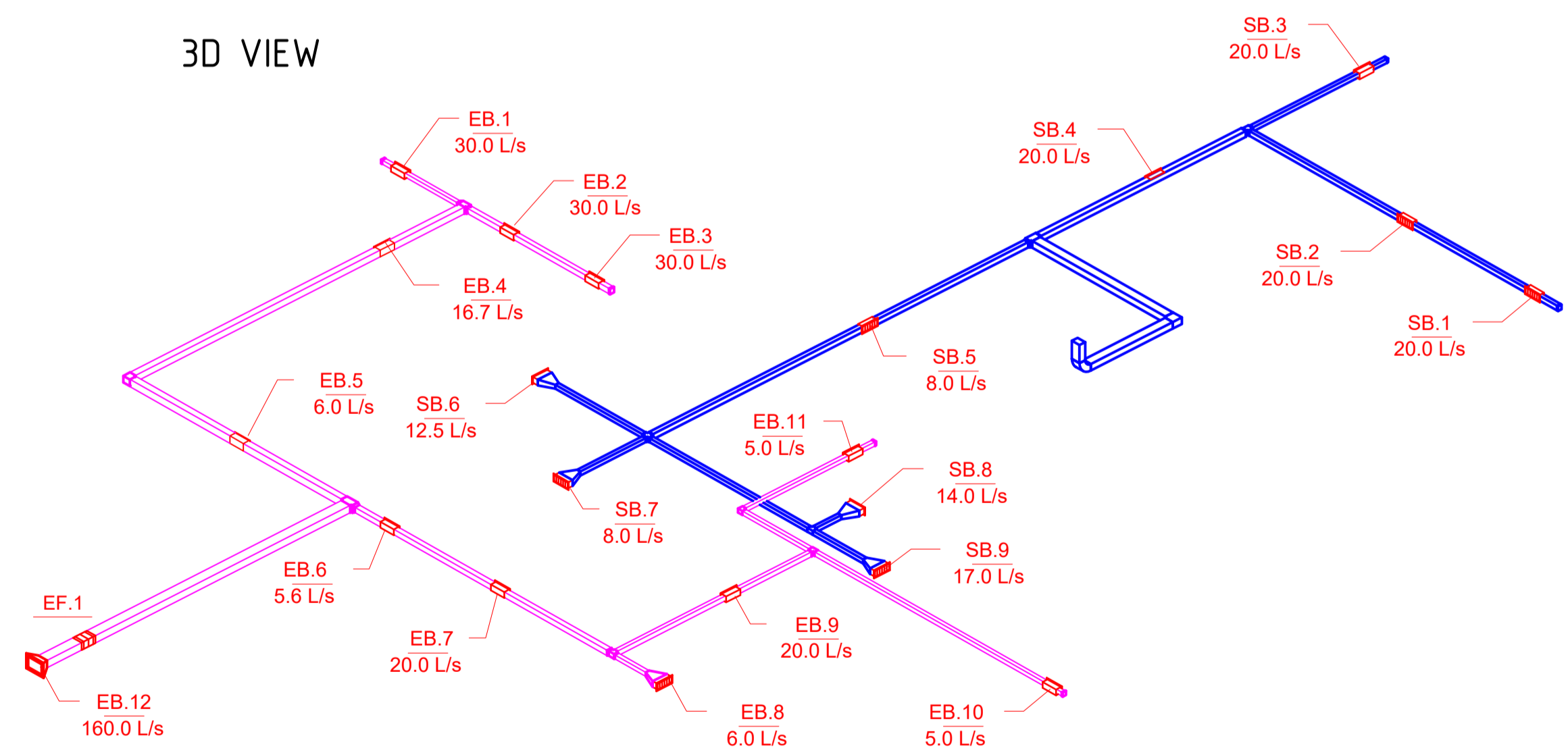
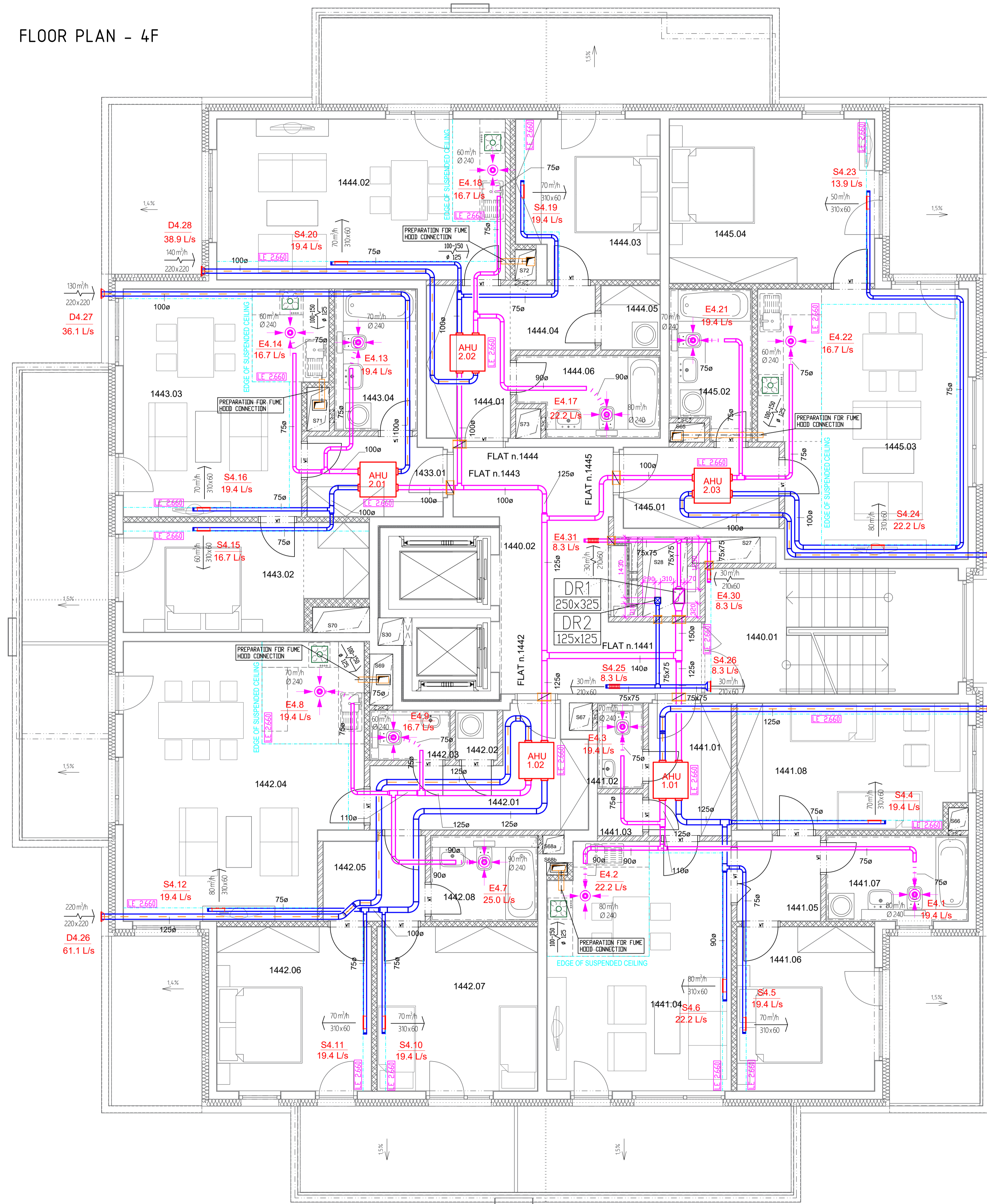


TABLE OF ROOMS - 01B

NUMBER OF ROOM	NAME OF ROOM	AREA (m²)
D01.01	CELLAR CUBICLE	1102,54
D01.02	BASEMENT CORRIDOR 2	23,31
D01.03	TECHNICAL ROOM BOILER ROOM	14,74
D01.04	PANTRY	5,83
D01.05a	TECHNICAL ROOM ELECTRO	11,50
D01.05b	TECHNICAL ROOM ELECTRO	4,41
D01.05c	TECHNICAL ROOM ELECTRO	15,27
D01.06a	PANTRY	5,16
D01.06b	BASEMENT CORRIDOR 1.1	21,94
D01.07	STAIRCASE	16,60
D01.08a	PANTRY	6,80
D01.08b	COMMON ROOM	28,67
D01.08c	TECHNICAL ROOM - HTI	6,52
SD01.01	CELLAR	2,86
SD01.02	CELLAR	2,88
V01	LIFT	-
V02	LIFT	-

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Category Name CZECHIA Air Ventilation and Cooling System Design			
Title FLOOR PLAN - 01B	Drawing Number B1.1	Date 05/2019	Drawing Scale 1:50

FLOOR PLAN - 4F



LEGEND OF MATERIALS

- S4.23 13.9 L/s $\left[\begin{array}{l} 70 \text{ m}^3/\text{h} \\ 310 \times 60 \end{array} \right]$ AIR SUPPLY QUANTITY, LABEL
DISTRIBUTION ELEMENT DIMENSION
- E4.3 19.4 L/s $\left[\begin{array}{l} 70 \text{ m}^3/\text{h} \\ \varnothing 240 \end{array} \right]$ EXHAUST AIR QUANTITY, LABEL
DISTRIBUTION ELEMENT DIMENSION
- DIGESTER SEPARATED CONNECTION
- DOOR WITHOUT THRESHOLDS, OR UNDERCUT WITH GAP OF 10-15 mm
- DUCTS WITH FIRE INSULATION / HEAT INSULATION
- DUCT RISERS LABEL
DIMENSIONS OF DUCT RISERS
- DISTANCE OF LOWER EDGE OF AIR-CONDITIONING DEVICE / CEILING FROM CLEAN FLOOR
- REFRIGERANT DISTRIBUTION - RETURN PIPE
REFRIGERANT DISTRIBUTION - SUPPLY PIPE
- EDGE OF SUSPENDED CEILING
- FIRE DAMPER
- AIR SUPPLY DUCT
- AIR SUPPLY DUCT + THERMAL INSULATION
- AIR EXHAUST DUCT
- ROUND DUCT DIMENSION
- PIPE RISERS WITH LABEL
- AIR HANDLING UNIT
NUMBER OF UNIT
- EXHAUST FAN
- OUTDOOR COOLING UNIT

NOTES

MAXIMUM HINGE SPACING 3 m
 UNITS AND FANS SAVE FLEXIBLE
 SANITARY FACILITIES AND CORRIDORS ARE FULLY PROVIDED
 WITH SUSPENDED CEILING, OTHER OCCUPIED SPACES HAVE
 JUST LOCAL SUSPENDED CEILING (KITCHENETTE) OR
 CORNER CHANNELS FOR DUCTS

3D VIEW

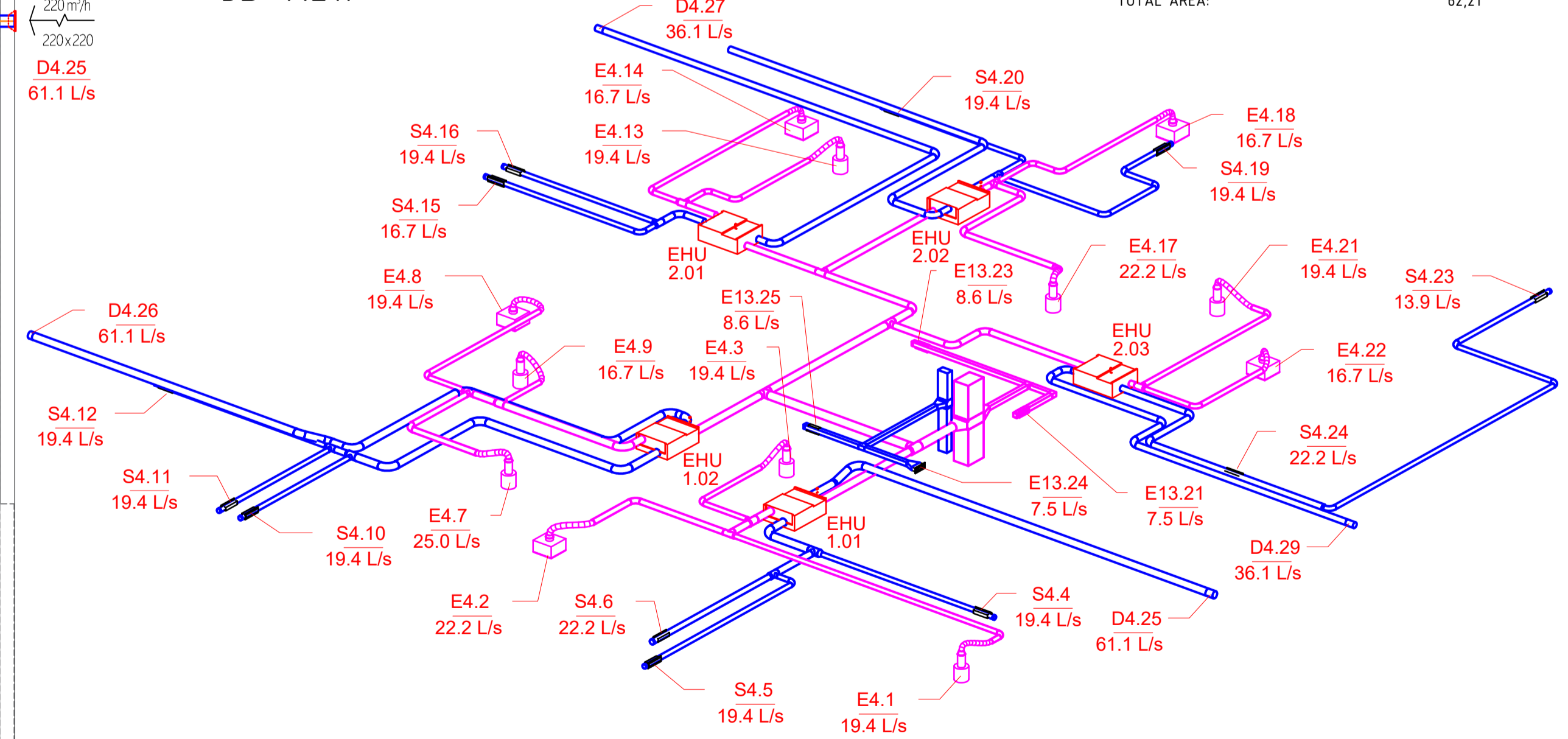


TABLE OF ROOMS - 4F

FLAT n. 1441		
NUMBER OF ROOM	NAME OF ROOM	AREA (m ²)
1441.01	HALL	6,21
1441.02	WC	2,19
1441.03	PANTRY	1,12
1441.04	LIVING ROOM + KITCHENETTE	25,09
1441.05	CORRIDOR	4,13
1441.06	BEDROOM	12,68
1441.07	BATHROOM	6,65
1441.08	BEDROOM	15,73
TOTAL AREA:		73,80
FLAT n. 1442		
NUMBER OF ROOM	NAME OF ROOM	AREA (m ²)
1442.01	HALL	10,37
1442.02	PANTRY	1,22
1442.03	WC	2,26
1442.04	LIVING ROOM + KITCHENETTE	34,88
1442.05	CORRIDOR	4,94
1442.06	BEDROOM	14,09
1442.07	BEDROOM	14,69
1442.08	BATHROOM	5,00
TOTAL AREA:		87,45
FLAT n. 1443		
NUMBER OF ROOM	NAME OF ROOM	AREA (m ²)
1443.01	HALL	6,04
1443.02	BEDROOM	13,82
1443.03	LIVING ROOM + KITCHENETTE	24,09
1443.04	BATHROOM	6,41
TOTAL AREA:		50,36
FLAT n. 1444		
NUMBER OF ROOM	NAME OF ROOM	AREA (m ²)
1444.01	HALL	7,34
1444.02	LIVING ROOM + KITCHENETTE	25,74
1444.03	BEDROOM	12,34
1444.04	CORRIDOR	3,12
1444.05	PANTRY	2,18
1444.06	BATHROOM	5,94
TOTAL AREA:		56,66
FLAT n. 1445		
NUMBER OF ROOM	NAME OF ROOM	AREA (m ²)
1445.01	HALL	7,23
1445.02	BATHROOM	6,37
1445.03	LIVING ROOM + KITCHENETTE	29,87
1445.04	BEDROOM	18,74
TOTAL AREA:		62,21

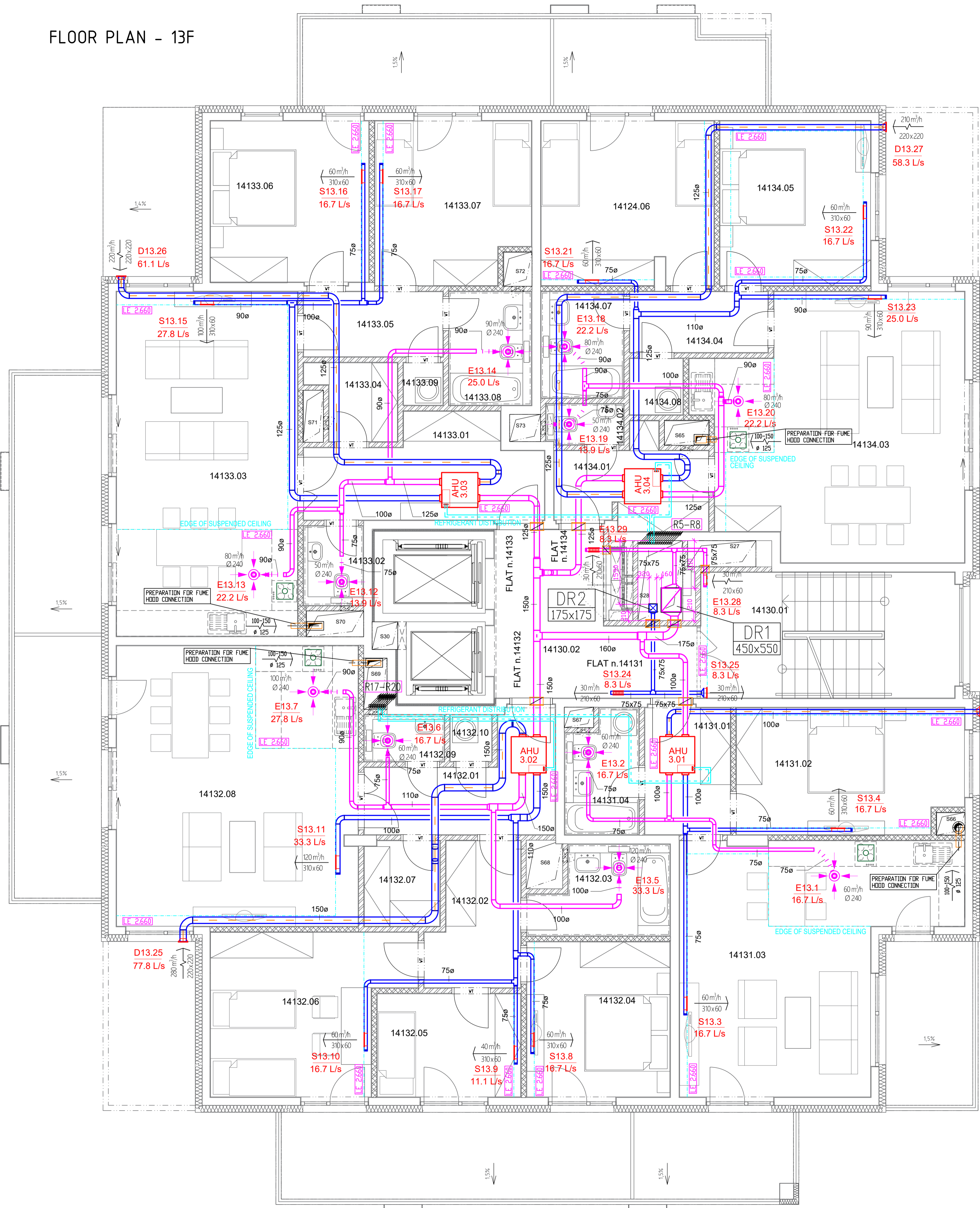
COMMON AREA

NUMBER OF ROOM	NAME OF ROOM	AREA (m ²)
1440.01	STAIRCASE, CORRIDOR	17,28
1440.02	CORRIDOR	21,70
V01	LIFT	-
V02	LIFT	-
TOTAL AREA:		38,98

* 4F REPRESENTS 1F-11F INCLUDING 1F, WHICH IS ALMOST EXACT WITH OTHER FLOORS

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Category Name CZECHIA Air Ventilation and Cooling System Design			
Title FLOOR PLAN - 4F (1-11F)*		Drawing Number B1.2	Date 05/2019 Drawing Scale 1:50

FLOOR PLAN - 13F



LEGEND OF MATERIALS

- S4.23 $\left[\begin{array}{l} 70 \text{ m}^3/\text{h} \\ 13.9 \text{ L/s} \end{array} \right]$ AIR SUPPLY QUANTITY, LABEL
DISTRIBUTION ELEMENT DIMENSION
- E4.3 $\left[\begin{array}{l} 70 \text{ m}^3/\text{h} \\ 19.4 \text{ L/s} \end{array} \right]$ EXHAUST AIR QUANTITY, LABEL
DISTRIBUTION ELEMENT DIMENSION
- DIGESTER SEPARATED CONNECTION
- DOOR WITHOUT THRESHOLDS, OR UNDERCUT WITH GAP OF 10-15 mm
- DUCTS WITH FIRE INSULATION / HEAT INSULATION
- DUCT RISERS LABEL
DIMENSIONS OF DUCT RISERS
- LE 2.650 DISTANCE OF LOWER EDGE OF AIR-CONDITIONING DEVICE / CEILING FROM CLEAN FLOOR
- REFRIGERANT DISTRIBUTION - RETURN PIPE
 REFRIGERANT DISTRIBUTION - SUPPLY PIPE
- EDGE OF CEILING
- FIRE DAMPER
- AIR SUPPLY DUCT
- AIR SUPPLY DUCT + THERMAL INSULATION
- AIR EXHAUST DUCT
- ROUND DUCT DIMENSION
- PIPE RISERS WITH LABEL
- AIR HANDLING UNIT
NUMBER OF UNIT
- EXHAUST FAN
- OUTDOOR COOLING UNIT

NOTES

MAXIMUM HINGE SPACING 3 m
UNITS AND FANS SAVE FLEXIBLE
SANITARY FACILITIES AND CORRIDORS ARE FULLY PROVIDED WITH SUSPENDED CEILING, OTHER OCCUPIED SPACES HAVE JUST LOCAL SUSPENDED CEILING (KITCHENETTE) OR CORNER CHANNELS FOR DUCTS

COMMON AREA

NUMBER OF ROOM	NAME OF ROOM	AREA (m ²)
14130.01	STAIRCASE	17,28
14130.02	CORRIDOR	14,90
V01	LIFT	-
V02	LIFT	-
TOTAL AREA:		32,18

TABLE OF ROOMS - 13F

FLAT n. 14131

NUMBER OF ROOM	NAME OF ROOM	AREA (m ²)
14131.01	HALL	6,36
14131.02	BEDROOM	15,35
14131.03	LIVING ROOM + KITCHENETTE	31,38
14131.04	BATHROOM	4,66
TOTAL AREA:		57,75

FLAT n. 14132

NUMBER OF ROOM	NAME OF ROOM	AREA (m ²)
14132.01	HALL	9,17
14132.02	CORRIDOR	7,13
14132.03	BATHROOM	6,03
14132.04	BEDROOM	12,34
14132.05	BEDROOM	8,29
14132.06	BEDROOM	16,10
14132.07	CHANGING ROOM	3,50
14132.08	LIVING ROOM + KITCHENETTE	37,54
14132.09	WC	2,13
14132.10	PANTRY	1,15
TOTAL AREA:		103,38

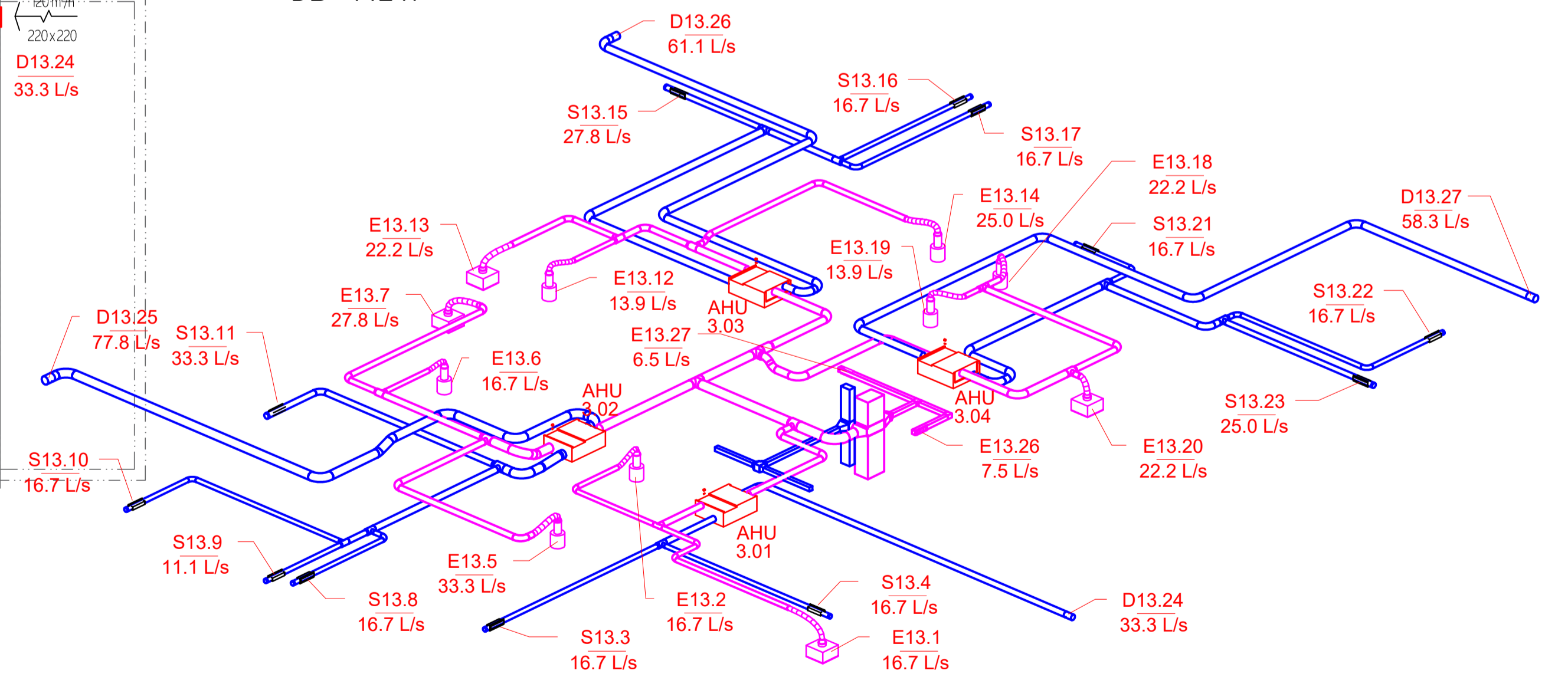
FLAT n. 14133

NUMBER OF ROOM	NAME OF ROOM	AREA (m ²)
14133.01	HALL	11,69
14133.02	WC	2,58
14133.03	LIVING ROOM + KITCHENETTE	35,07
14133.04	CHANGING ROOM	3,26
14133.05	CORRIDOR	5,29
14133.06	BEDROOM	14,17
14133.07	BEDROOM	13,58
14133.08	BATHROOM	5,12
14133.09	PANTRY	1,01
TOTAL AREA:		91,77

FLAT n. 14134

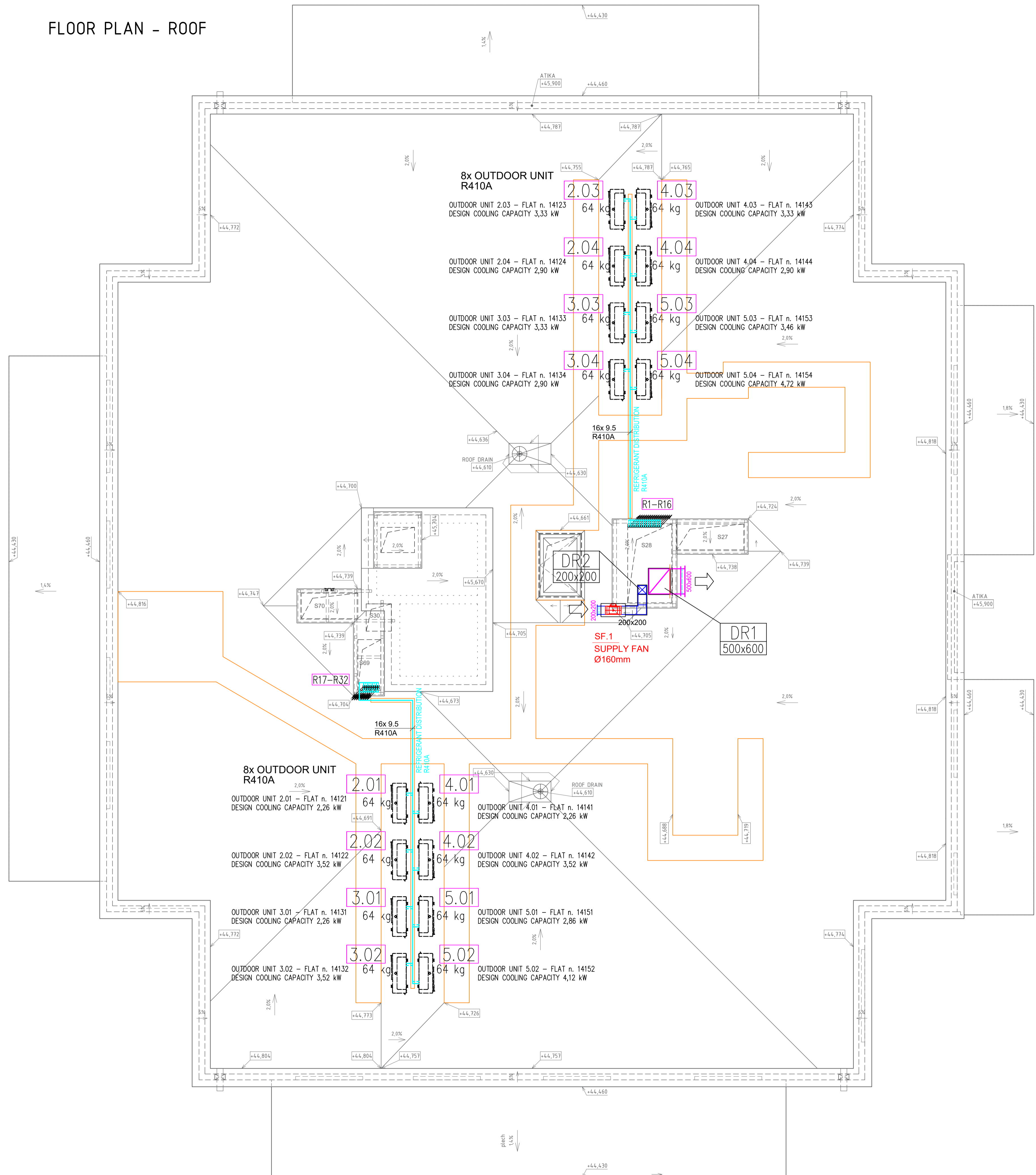
NUMBER OF ROOM	NAME OF ROOM	AREA (m ²)
14134.01	HALL	6,93
14134.02	WC	1,81
14134.03	LIVING ROOM + KITCHENETTE	35,13
14134.04	CORRIDOR	4,93
14134.05	BEDROOM	13,59
14134.06	BEDROOM	15,58
14134.07	BATHROOM	4,80
14134.08	PANTRY	1,74
TOTAL AREA:		84,51

3D VIEW



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Category Name CZECHIA Air Ventilation and Cooling System Design			
Title FLOOR PLAN - 13F (12-15F)	Drawing Number B1.3	Date 05/2019	Drawing Scale 1:50

FLOOR PLAN - ROOF



LEGEND OF MATERIALS

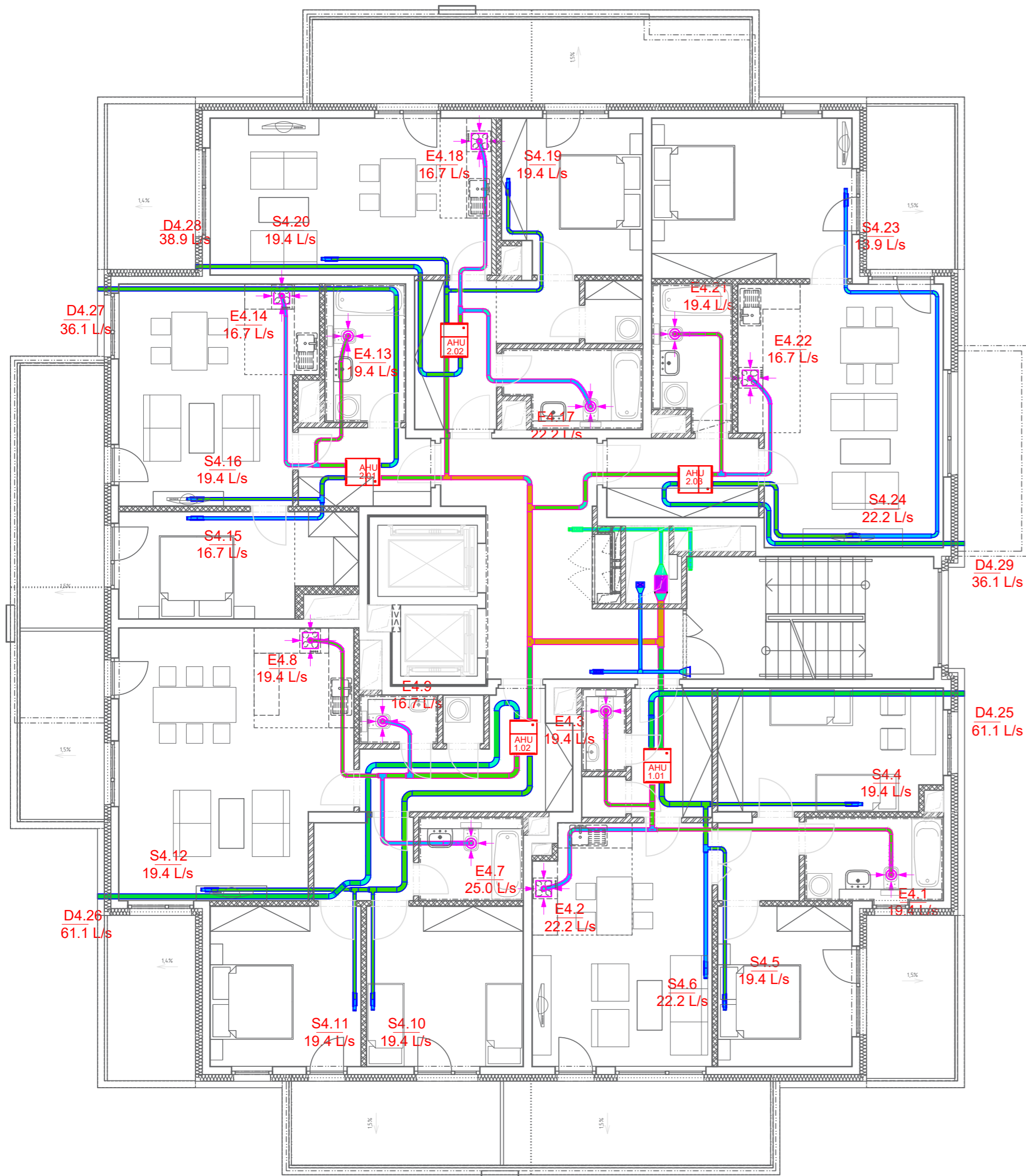
- S4.23 13.9 L/s 70m³/h
310x60 AIR SUPPLY QUANTITY, LABEL
DISTRIBUTION ELEMENT DIMENSION
- E4.3 19.4 L/s 70m³/h
Ø 240 EXHAUST AIR QUANTITY, LABEL
DISTRIBUTION ELEMENT DIMENSION
- DIGESTER
SEPARATED CONNECTION
- ◡ DOOR WITHOUT THRESHOLDS, OR UNDERCUT WITH GAP OF 10-15 mm
- ◉ DUCTS WITH FIRE INSULATION / HEAT INSULATION
- DR1
75x75 DUCT RISERS LABEL
DIMENSIONS OF DUCT RISERS
- LE 2,660 DISTANCE OF LOWER EDGE OF AIR-CONDITIONING DEVICE / CEILING FROM CLEAN FLOOR
- REFRIGERANT DISTRIBUTION - RETURN PIPE
 REFRIGERANT DISTRIBUTION - SUPPLY PIPE
- EDGE OF CEILING
- ◻ FIRE DAMPER
- AIR SUPPLY DUCT
- AIR SUPPLY DUCT + THERMAL INSULATION
- AIR EXHAUST DUCT
- 125ø ROUND DUCT DIMENSION
- R4 PIPE RISERS WITH LABEL
- AHU
2.03 AIR HANDLING UNIT
NUMBER OF UNIT
- EF.1
SF.1 EXHAUST/SUPPLY FAN
- ◻ OUTDOOR COOLING UNIT
- REFRIGERANT DISTRIBUTION IN CHANNEL FOR MULTIPLE PIPING

NOTES

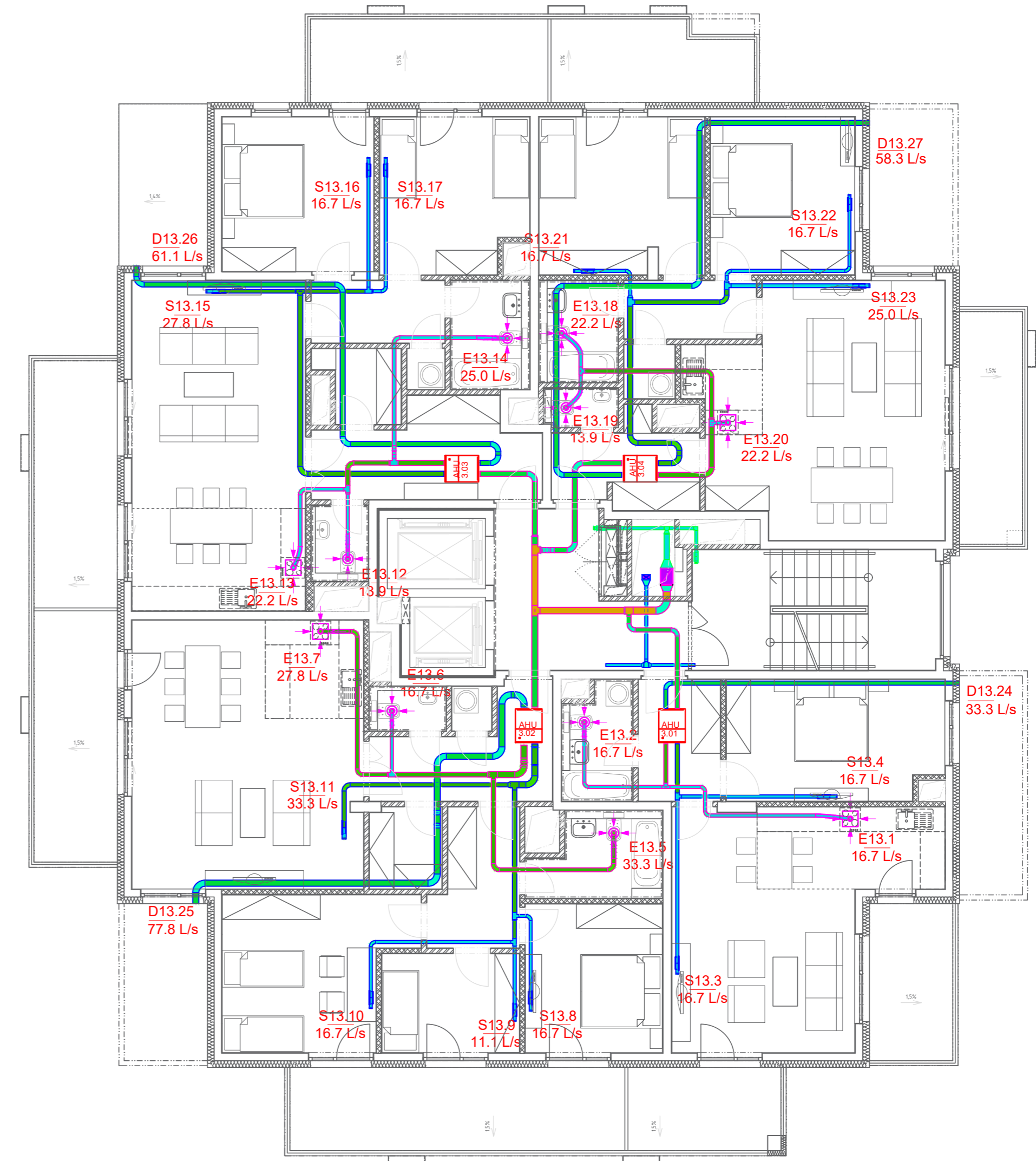
- MAXIMUM HINGE SPACING 3 m
- UNITS AND FANS SAVE FLEXIBLE

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125DPM - Master Thesis			
Category Name CZECHIA Air Ventilation and Cooling System Design		Department of Indoor Environmental and Building Services Engineering	
Title FLOOR PLAN - ROOF	Drawing Number B1.4	Date 05/2019	Drawing Scale 1:50

DUCTS FLOW SPEED - 4F



DUCTS FLOW SPEED - 13F



LEGEND OF FLOW SPEED

- Less than 4.0 m/s
- 4.0 m/s - 6.0 m/s
- 6.0 m/s - 9.0 m/s
- 9.0 m/s - 12.5 m/s
- 12.5 m/s or more

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Category Name CZECHIA Air Ventilation and Cooling System Design			
Title DUCTS FLOW SPEED: 4F + 13F		Drawing Number B1.5	Date 05/2019
		Drawing Scale 1:100	