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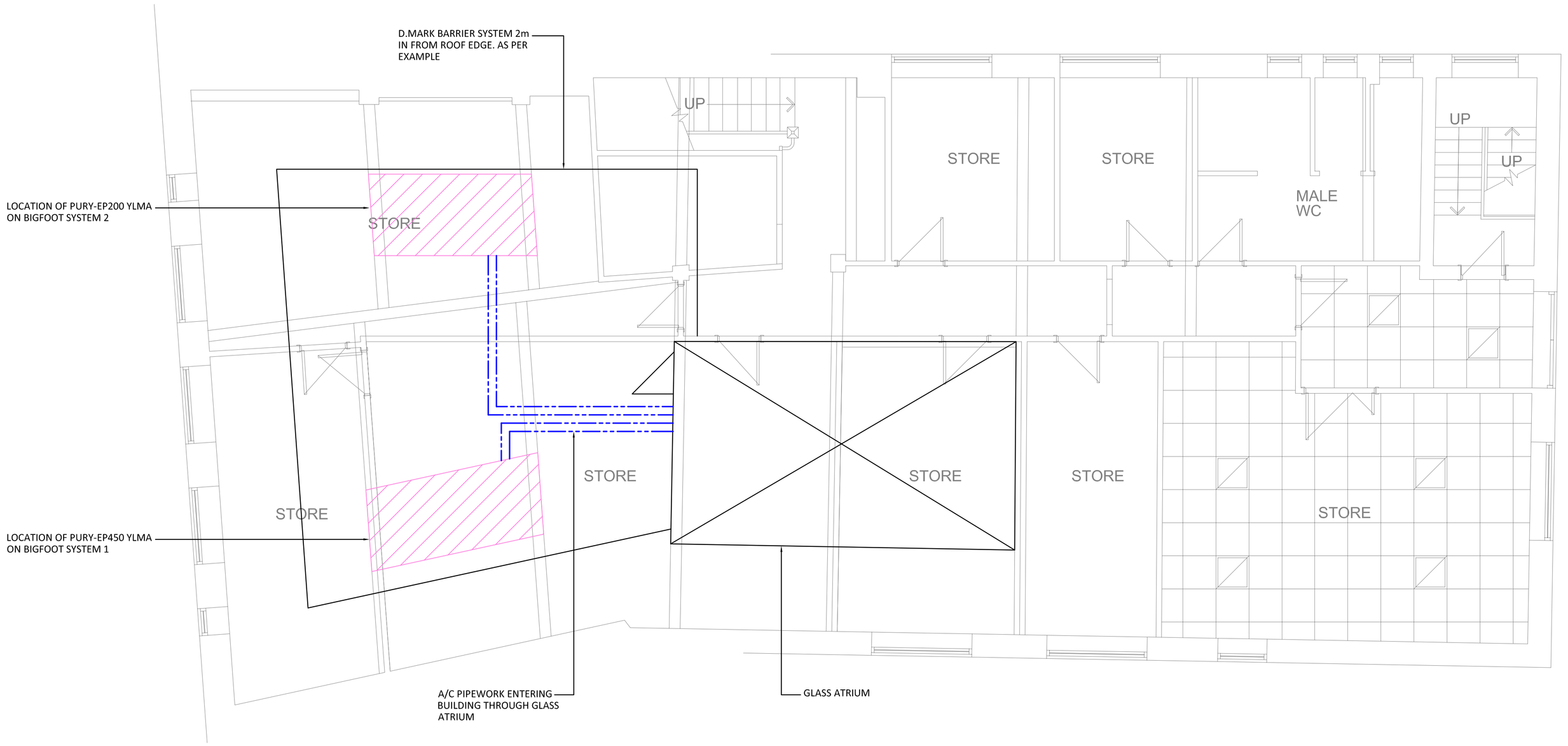
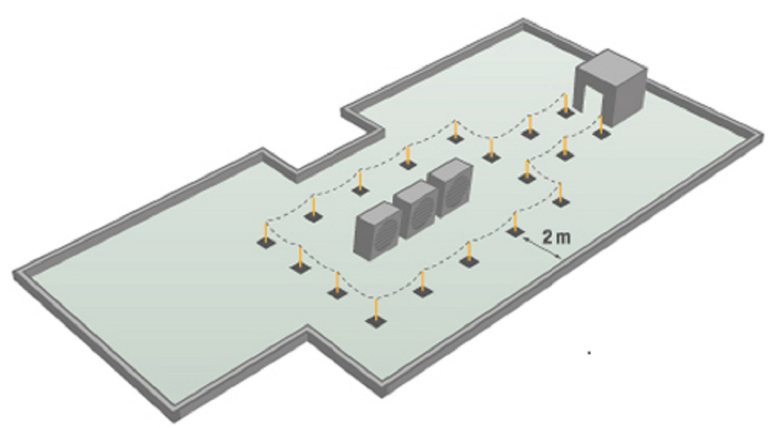


R2 Series High COP (8-20hp)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit

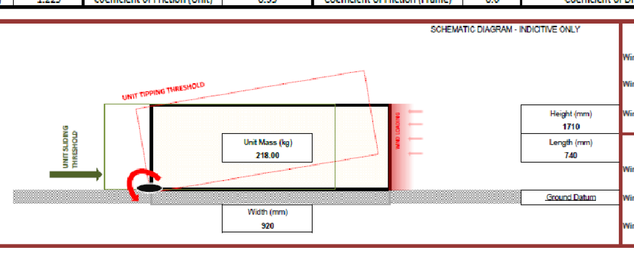
OUTDOOR UNITS			PURY-EP200YLM-A	PURY-EP450YLM-A
CAPACITY (kW)		Heating (nominal)	31.5	56.0
		Cooling (nominal)	28.0	50.0
		High Performance Heating (LA)	31.5	50.7
		COP Priority Heating (LA)	28.1	49.7
		Cooling (LA)	25.0	44.4
POWER INPUT (kW)		Heating (nominal)	8.40	15.86
		Cooling (nominal)	7.25	14.83
		High Performance Heating (LA)	10.58	18.10
		COP Priority Heating (LA)	8.46	14.50
		Cooling (LA)	3.11	6.84
COP / EER (nominal)			3.73 / 3.86	3.53 / 3.37
SCOP / SEER (system)			5.36 / 6.20	4.89 / 7.05
MAX No. OF CONNECTABLE INDOOR UNITS			25	45
MAX CONNECTABLE CAPACITY			50~150% OU Capacity	50~150% OU Capacity
AIRFLOW (m³/min)		High	185	320
PIPE SIZE mm (in)		Gas	19.05 (3/4")	22.2 (7/8")
		Liquid	22.2 (7/8")	28.58 (1-1/8")
SOUND PRESSURE LEVEL (dBA)			60	62.5
SOUND POWER LEVEL (dBA)			83.1	85
WEIGHT (kg)			218	306
DIMENSIONS (mm)		Width	920	1150
		Depth	740	740
(1650mm without legs)		Height	1710	1710
ELECTRICAL SUPPLY *			380-415v, 50Hz	380-415v, 50Hz
PHASE*			Three	Three
STARTING CURRENT (A)			8	8 / 8
NOMINAL SYSTEM RUNNING CURRENT (A)*		Heating/Cooling (MAX)	13.0 / 11.2 [16.9]	24.5 / 22.9 [37.4]
GUARANTEED OPERATING RANGE (°C)		Heating / Cooling	-20~15.5 / 5~46	-20~15.5 / 5~46
FUSE RATING (MCB class B3 EN 60947-2) - (A)*			1 x 20	1 x 40
MAINS CABLE No. Cores*			4	4



Project Reference	Barnsley Building Society		Engineer	Miles Hardy		
Unit Reference	BF5233/1 - 920 Unit		Checked By			
Air Density @ 15° (kg/m³)	1.225	Coefficient of Friction (Unit) 0.35	Coefficient of Friction (Frame)	0.6	Coefficient of Drag (Cube)	0.8

Condition 1 - Unit Only

SCHEMATIC DIAGRAM - INDICITIVE ONLY

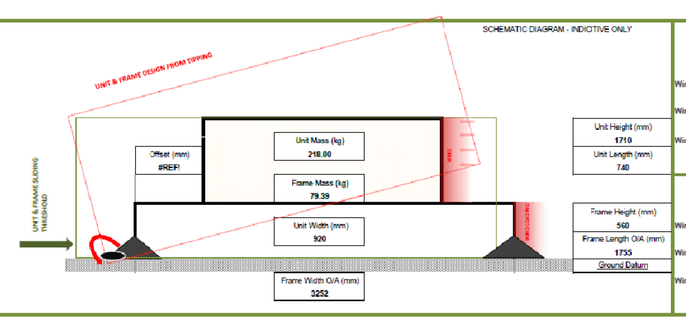


Unit Sliding Threshold			
Wind Pressure	P_{S1}	720	N/m2
Wind Velocity	V_{S1}	35	m/s
Wind Velocity	V_{S1}	78	mph

Unit Tipping Threshold			
Wind Pressure	P_{S1}	1137	N/m2
Wind Velocity	V_{S1}	43	m/s
Wind Velocity	V_{S1}	96	mph

Condition 2 - Unit and Frame

SCHEMATIC DIAGRAM - INDICITIVE ONLY



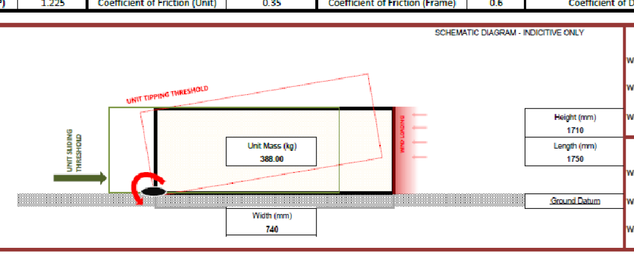
Unit & Frame Sliding Threshold			
Wind Pressure	P_{S1}	1229	N/m2
Wind Velocity	V_{S1}	53	m/s
Wind Velocity	V_{S1}	119	mph

Unit & Frame Tipping Threshold			
Wind Pressure	P_{S1}	3675	N/m2
Wind Velocity	V_{S1}	74	m/s
Wind Velocity	V_{S1}	165	mph

Project Reference	Barnsley Building Society		Engineer	Miles Hardy		
Unit Reference	BF5233/2 - 1750 Unit		Checked By			
Air Density @ 15° (kg/m³)	1.225	Coefficient of Friction (Unit) 0.35	Coefficient of Friction (Frame)	0.6	Coefficient of Drag (Cube)	0.8

Condition 1 - Unit Only

SCHEMATIC DIAGRAM - INDICITIVE ONLY

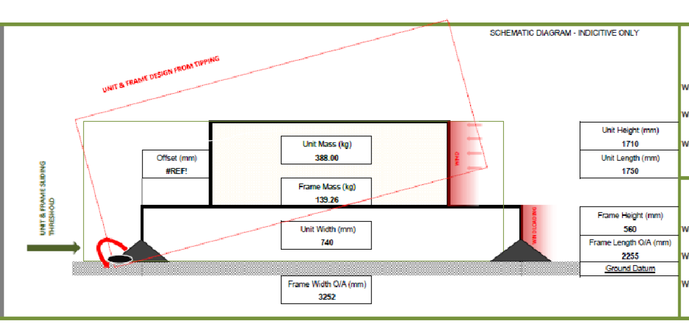


Unit Sliding Threshold			
Wind Pressure	P_{S1}	596	N/m2
Wind Velocity	V_{S1}	30	m/s
Wind Velocity	V_{S1}	67	mph

Unit Tipping Threshold			
Wind Pressure	P_{S1}	688	N/m2
Wind Velocity	V_{S1}	34	m/s
Wind Velocity	V_{S1}	75	mph

Condition 2 - Unit and Frame

SCHEMATIC DIAGRAM - INDICITIVE ONLY



Unit & Frame Sliding Threshold			
Wind Pressure	P_{S1}	1296	N/m2
Wind Velocity	V_{S1}	46	m/s
Wind Velocity	V_{S1}	103	mph

Unit & Frame Tipping Threshold			
Wind Pressure	P_{S1}	2736	N/m2
Wind Velocity	V_{S1}	64	m/s
Wind Velocity	V_{S1}	143	mph

Rev	Revision Note	Int	Date

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Client YBS GROUP

Job Name BBS BARNSLEY

Title PROPOSED ROOF LAYOUT

Arch

Drawn AJ | Scale @ A1 1:50

Checked AJ | Date JAN '16

Drawing Number M5133–M002 | Rev –