BRUKL Output Document



Compliance with England and Wales Building Regulations Part L 2010

Project name

Regent High School

As built

Date: Fri Oct 13 13:31:21 2017

Administrative information

Building Details

Address: LONDON, NW1 1RX

Certification tool

Calculation engine: Apache

Calculation engine version: 6.4.0.15

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 6.4.0.15

BRUKL compliance check version: v4.1.g.0

Owner Details

Name: Regent High School

Telephone number: 020 7387 0126

Address: Charlton Street, London, NW1 1RX

Certifier details

Name: David Richard Kingstone Telephone number: Phone

Address: Street Address, City, Postcode

Criterion 1: The calculated CO₂ emission rate for the building should not exceed the target

1.1	CO ₂ emission rate from the notional building, kgCO ₂ /m ² .annum	18.9
1.2	Target CO ₂ emission rate (TER), kgCO ₂ /m ² .annum	18.9
1.3	Building CO ₂ emission rate (BER), kgCO ₂ /m ² .annum	15.7
1.4	Are emissions from the building less than or equal to the target?	BER =< TER
1.5	Are as built details the same as used in the BER calculations?	Separate submission

Criterion 2: The performance of the building fabric and the building services should achieve reasonable overall standards of energy efficiency

The building does not follow guidance in England and Wales Building Regulations Part L 2010

2.a Building fabric

0.35			
0.55	0.39	0.86	DG000000:Surf[3]
0.25	0.22	1.38	DGF10001:Surf[0]
0.25	0.15	0.16	HF000005:Surf[10]
2.2	1.77	2.21	FCRC0007:Surf[1]
2.2	0.61	0.61	GBNS0000:Surf[4]
1.5	-	-	No Vehicle access doors in building
3.5	-	-	No High usage entrance doors in building
	0.25 2.2 2.2 1.5	0.25	0.25 0.15 0.16 2.2 1.77 2.21 2.2 0.61 0.61 1.5 - - 3.5 - -

Ja-Limit = Limiting area-weighted average U-values [W/(m²K)]

Ua-Calc = Calculated area-weighted average U-values [W/(m²K)]

U_{i-Calc} = Calculated maximum individual element U-values [W/(m²K)]

N.B.: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air Permeability	Worst acceptable standard	This building
m ³ /(h.m ²) at 50 Pa	10	5

^{*} There might be more than one surface where the maximum U-value occurs.

^{*} Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

^{***} Display windows and similar glazing are excluded from the U-value check.

2.b Building services

The building services parameters listed below are expected to be checked by the BCO against guidance. No automatic checking is performed by the tool.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	0.9 to 0.95

1-03 NV UFH and C

Heating seasonal efficiency	Cooling nominal efficiency	SFP [W/(I/s)]	HR seasonal e	efficiency
5.24	7.91	0	-	
				YES

2- 07 AHU302 UFH and C

Heating seasonal efficiency	Cooling nominal efficiency	SFP [W/(I/s)]	HR seasonal e	efficiency
5.24	7.91	0.6	0.77	
Automatic monitoring & targe	eting with alarms for out-of-ran	ge values for this H	IVAC system	YES

3-02 AHU304 RAD

Heating seasonal efficiency	Cooling nominal efficiency	SFP [W/(I/s)]	HR seasonal e	efficiency
0.97	-	0	0.5	
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system				YES

4- 08 AHU303 UFH and C

Heating seasonal efficiency	Cooling nominal efficiency	SFP [W/(I/s)]	HR seasonal e	efficiency
5.24	7.91	0.85	0.75	
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system				YES

5-06 AHU301 CV

Heating seasonal efficiency	Cooling nominal efficiency	SFP [W/(I/s)]	HR seasonal e	efficiency
5.24	7.91	1.96	0.76	
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system				YES

6-01 NVRAD

Heating seasonal efficiency	Cooling nominal efficiency	SFP [W/(I/s)]	HR seasonal efficiency	
0.97	-	0	-	
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system				YES

7- 10 AHU202 Rad

Heating seasonal efficiency	Cooling nominal efficiency	SFP [W/(I/s)]	HR seasonal e	efficiency
0.97	-	0	0.5	
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system				YES

8-05 AHU203 Rad

Heating seasonal efficiency	Cooling nominal efficiency	SFP [W/(I/s)]	HR seasonal	efficiency
0.97	-	0	-	
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system				YES

9-04 AHU304 UFH and C

Heating seasonal efficiency	Cooling nominal efficiency	SFP [W/(I/s)]	HR seasonal e	efficiency
5.24	7.91	3	0.5	
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system			YES	

10-09 AHU201 UFH and C

Heating seasonal efficiency	Cooling nominal efficiency	SFP [W/(I/s)]	HR seasonal e	efficiency
5.24	7.91	1.38	0.77	
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system			YES	

1- Medburn Solar DHW

Heating seasonal efficiency	Hot water storage loss factor [kWh/litre per day]
0.9	0.037

2- Sailsbury electric WH

Heating seasonal efficiency	Hot water storage loss factor [kWh/litre per day]
1	0.05

3- Science Block electric WH

Heating seasonal efficiency	Hot water storage loss factor [kWh/litre per day]	
1	0.05	

Local mechanical ventilation and exhaust

Zone	Supply/extract SFP [W/(I/s)]	HR seasonal efficiency	Exhaust SFP [W/(I/s)]
CAFF02 Arts College Manager	M0/975 AD	-	-
CAFF03 Pastoral Leader MVR	D .95	-	-
CAGF 01 theatre Dis Change	-	-	1.12
ADGF02 Print room repro MVR	A © 95	-	-
SDGF13 meeting room NVRAD	0.95	-	-
ADGF12 Info Manager MVRAD	0.95	-	-
ADGF13 Busar Office MVRAD	0.95	-	-
ADGF15 Data Exam Team MV	RAI95	-	-
ADGF14 Meeting MVRAD	0.95	-	-
ADGF16 Prem manager MVRA	D0.95	-	-
F MFF05 Hub	2.64	-	-
F cleaners	0.95	-	-
FMGF07 Kitchen MVRAD	1.5	-	1.12
MFF17 store	2.64	-	-
F store	2.64	-	-
F wc MVRAD	-	-	1.5
F wc MVRAD	-	-	1.5
F wc MVRAD	-	-	1.5
F wc	-	-	1.12
F wc	-	-	1.12
F wc MVRAD	-	-	1.5
F wc	-	-	1.35
ADGF05	0.95	-	•
ADGF07	0.95	-	•
FMGF16	1.5	-	•
G WC access	-	-	1.5
G WC F	-	-	1.5
G toilet MVRAD	-	-	1.5
G wc NVUF	-	-	1.35
HFF03 Dining Hub MVRAD	0.95	-	-
HFF03 Dining Hub MVRAD	0.95	-	-

Local mechanical ventilation and exhaust

Zone	Supply/extract SFP [W/(I/s)]	HR seasonal efficiency	Exhaust SFP [W/(I/s)]
HFF08 Pastoral Leader MVRAD	0.95	-	-
MFF09 Security MVRAD	2.64	-	-
ELSF15 Wrk Exo	0.95	-	-
ELSF08 Meeting	0.95	-	-
ELSF15 D of L Past Leader	0.95	-	-
CR125 Pastoral leader MVRAD	2.64	-	-
F SLT office MVRAD	2.64	-	-
F meeting room MVRAD	2.64	-	-
MFF14 ICT Rich Class NVRAD	2.64	-	-
SDGF11 councelling room NVR	ADD95	-	-
G Meeting	0.95	-	-
S cleaners	0.95	-	-
F Staff prep MVRAD	2.64	-	-
S wc	-	-	1.12
S wc	-	-	1.12
S wc MVRAD	-	-	1.5

Zone	General lighting [W]	Display lamps efficacy [lm/W]
CFF02 The Arcade Void NVUF	3200	-
CAFF06 Media Studies	700	-
CAFF02 Arts College Manager MVR/	A 12 50	-
CAFF03 Pastoral Leader MVRAD	120	-
CAFF07 Media Studies	670	-
CAFF07 Meeting MVRAD	60	-
CAFF01Creative Arts Home Base M\	/ RAT 0	-
CAFF08 Drama Studio 1	720	-
CAFF09 Drama Studio 2	720	-
CAFF10 ICT Rich Room	600	-
CGF12 Theatre Entrance	280	-
CAGF 01 theatre	2550	-
CAGF 01 theatre store	80	-
CAGF 01 theatre green room	340	-
CAGF 01 theatre circulation	290	-
CAGF 01 theatre change	170	-
CAGF 01 theatre store	430	-
CAGF 01 theatre store	110	-
CAGF 01 theatre cleaners	60	-
CAGF 01 theatre circulation	110	-
CAGF 01 theatre store	50	-
CAGF 01 theatre Dis Change	30	-
CAGF 01 theatre change	170	-
CGF12 Theatre Entrance void	330	-
CGF12 Theatre Entrance int	390	-
CGF12 Theatre Entrance void	490	-
CGF02 The Arcade NVUF	2970	-
CASF17 General Art Room 1	630	-

Zone	General lighting [W]	Display lamps efficacy [lm/W]
CASF16 Large Art Room	630	-
CASF18 General Art Room 2	630	-
CASF09 Prac	60	-
CASF08 Prac	110	-
CASF04 Music Ensemble	110	-
CASF03 Music Recital	1140	-
CASF07 Prac	60	-
CASF06 Prac	60	-
CASF05 Recording	110	-
CASF02 Music Class 2	600	-
CASF01 Music Class 1	600	-
CASF15 General Art Room 3	630	-
CASF11 Prac	60	-
CASF10 Prac	60	-
CASF22 Meeting	110	-
ADGF01 Reception Admin NVRAD	120	-
ADGF17 Conference room NVRAD	230	-
ADGF08 Sfl Office NVRAD	180	-
ADGF02 Print room repro MVRAD	120	-
SDGF13 meeting room NVRAD	60	-
ADGF11 data exams team	180	-
ADGF12 Info Manager MVRAD	60	
ADGF13 Busar Office MVRAD	60	-
ADGF15 Data Exam Team MVRAD	120	-
ADGF14 Meeting MVRAD	60	-
ADGF16 Prem manager MVRAD	60	-
ADGF18 SLT Safer School NVRAD	110	-
ADGF19 Reception NVUF	170	96
F circulation MVRAD	240	-
F MFF05 Hub	40	-
F store	20	-
F circulation MVRAD	70	-
F circulation MVRAD	50	-
F circulation MVRAD	140	-
F circulation NVRAD	1200	-
F circulation MVRAD	250	-
F circulation MVRAD	30	-
F cleaners	60	-
F hubroom	40	-
F hub MVRAD	170	<u> </u>
FMGF04 Dining	3700	-
FMGF07 Kitchen MVRAD	3290	-
MFF17 store	110	-
FMGF12 Work Area MVRAD	110	-
F store	30	-
F store	60	-
F escape stair?	180	-
i escape stall !	100	

Zone	General lighting [W]	Display lamps efficacy [lm/W]
F escape stair ?	120	-
LRFF05 Post 16 NVUF	60	-
F store MVRAD	110	-
F store MVRAD	60	-
F store MVRAD	340	-
F theatre void ???	1940	-
F wc MVRAD	570	-
F wc MVRAD	110	-
F wc MVRAD	510	-
Fwc	570	-
Fwc	570	-
F wc MVRAD	460	-
Fwc	460	-
G bit	110	-
G unheated plant	220	-
G bin store MVRAD	220	-
G circulation	230	-
G circulation	20	-
SDGF10 safer schools officer	120	-
ADGF03	60	-
G circulation	340	-
ADGF04	120	-
ADGF05	180	-
ADGF07	120	-
FMGF16	60	-
G circulation	170	-
G circulation	60	-
G circulation	70	-
G circulation	40	-
G circulation	30	-
G circulation MVRAD	60	-
G circulation	250	-
G store	40	-
G circulation MVRAD	160	-
G Plant room MVRAD	320	-
G WC access	60	-
G WC F	290	-
G circulation	290	-
G circulation	290	-
G LV Switch MVRAD	160	-
G store	170	-
G corridor	50	-
G hub	30	-
G Plant room MVRAD	540	-
G Hub Room	30	-
G unheated entrance	130	-
G CGF6 Room	180	-

	Display lamps efficacy [lm/W]
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30	-
490	-
550	-
110	-
860	-
000	
	60 370 370 370 370 30 490 550 110

Zone	General lighting [W]	Display lamps efficacy [lm/W]
ELSF10 Staff Prep NVUF	180	-
ELSF11 Seminar room NVRAD	370	-
S Store	110	-
ELSF19 Seminar Room Class 2	360	-
ELSF18 Large Class 63	540	-
ELSF17 Standard Class	540	_
ELSF16 Standard Class	360	_
ELSF15 D of L Past Leader	120	_
ELSF23 SLT Admin	180	_
ELSF22 Standard Class	360	-
ELSF21 Standard Class	540	-
ELSF20 Standard Class	540	-
Medburn top	1640	-
CR125 Pastoral leader MVRAD	120	-
MFF13 Group Area MVRAD	990	-
F SLT office MVRAD	60	-
MFF08 Maths ICT Rich Class 2 NVR		-
MFF07 Maths Standard Class 4 NVR		-
MFF06 Maths Standard Class 3 NVR		_
MFF05 Maths Standard Class 2 NVR		-
MFF04 Maths Standard Class 1 MVR		-
MFF01 Store	20	
MFF16 Maths ICT Rich Class 3 NVR.	-	_
F meeting room MVRAD	60	_
MFF14 ICT Rich Class NVRAD	690	_
MGF04 Maths ICT Rich Class 1 NVR		_
MGF03 Maths ICT Rich Class 3 NVR		-
MGF02 Maths Large Class 2 NVRAD		_
MGF01 Maths Large Class 1 NVRAD		
Roof	1120	-
G WC medburn	690	-
G archive store	50	- -
G circulation MVRAD	50	
S circulation MVRAD S circulation above arcade MVRAD	170	- -
	540	-
SCGF10 Product Design Room SCFF10 Serviced Lab 4	720	
S circulation above arcade MVRAD	3850	- -
SCFF02 Serviced Lab 2		-
	720	-
SCFF04 Multiuse Lab 1	720	-
SCFF06 Prep Instruments	240	-
SCFF07 Paired Multi Use lab 2	720	-
SCFF08 Serviced Lab 3	720	-
SCFF09 Prep Room	300	-
SCFF11 Science Studio 3	540	-
SCFF13 Pastoral Leader Admin	40	-
SCFF03 Prep	120	-
SCFF05 Breakout	230	-

Zone	General lighting [W]	Display lamps efficacy [lm/W]
SCFF01 Science Studio 4	540	-
SCFF03 Prep	120	-
SCFF14 circulation	10	-
SCFF14 meeting	20	-
SCGF05 Science Studio 2	540	-
SCGF06 Sevice Lab 1	720	-
SCGF07 Science Studio 1	540	-
SCGF08 Prep Room	180	-
SCGF09 Interactive Theatre	720	-
SCGF10 Product Design Room	180	_
SCGF11 Graphics Room 1	540	_
SCGF13 Materials Prep	360	_
SCGF14 Resistant Materials	720	_
SCGF18 Graphics Room 2	480	_
SCGF01 Homebase NVUF	1090	-
SCGF02 Staff Work Prep	360	-
SCGF04 Prep room	120	-
SCGF09 Interactive Theatre void	0	
SCGF19 Construction Textiles NVRA		-
SCGF20 Food Room MVRAD	620	-
SCGF21 Food Prep Tech MVRAD	230	-
S circulation above arcade MVRAD	90	_
S circulation above arcade MVRAD	110	
S circulation MVRAD	600	
S stair	70	-
S circulation MVRAD	880	
SDGF12 Staff Room NVRAD	370	
SDGF06 SFL therapy	120	-
SDGF11 councelling room NVRAD	60	_
SDGF01 Staff Work Area NVRAD	370	_
SDGF04 SFL Office NVRAD	120	_
SDGF09 meeting room	120	_
SDGF05 Counselling room NVRAD	60	
SDGF07 LSU Classroom NVUF	370	-
SDGF08 Teaching Room NVUF	370	_
SDGF18 Mentoring MVRAD	110	-
SDGF02 SFL Admin office NVRAD	240	-
G Meeting	110	
S hub room	20	
S cleaners	60	-
S store	110	
S stairs	70	
S escape stair MVRAD	90	
S escape stair MVRAD	180	-
S store	60	-
S store	170	-
F Staff prep MVRAD	240	- -
1 Gian prop WWINAD	<u> </u>	

Zone	General lighting [W]	Display lamps efficacy [lm/W]
S wc	570	-
S wc	570	-
S wc MVRAD	460	-

Criterion 3: The spaces in the building should have appropriate passive control measures to limit solar gains

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
CFF02 The Arcade Void NVUF	NO (-83.6%)	NO
CAFF06 Media Studies	NO (-46.3%)	NO
CAFF02 Arts College Manager MVR	ADIO (-99.6%)	NO
CAFF03 Pastoral Leader MVRAD	NO (-97.1%)	NO
CAFF07 Media Studies	NO (-45.6%)	NO
CAFF07 Meeting MVRAD	N/A	N/A
CAFF01Creative Arts Home Base M	/RVAD(-31.7%)	NO
CAFF08 Drama Studio 1	NO (-64.6%)	NO
CAFF09 Drama Studio 2	NO (-68.1%)	NO
CAFF10 ICT Rich Room	YES (+41.6%)	NO
CAGF 01 theatre	N/A	N/A
CAGF 01 theatre green room	N/A	N/A
CAGF 01 theatre change	N/A	N/A
CAGF 01 theatre store	N/A	N/A
CAGF 01 theatre change	N/A	N/A
CGF02 The Arcade NVUF	NO (-22.8%)	NO
CASF17 General Art Room 1	NO (-10.1%)	NO
CASF16 Large Art Room	NO (-71.4%)	NO
CASF18 General Art Room 2	NO (-15.8%)	NO
CASF09 Prac	NO (-34.4%)	NO
CASF08 Prac	NO (-60.1%)	NO
CASF04 Music Ensemble	NO (-37.4%)	NO
CASF03 Music Recital	NO (-51.1%)	NO
CASF07 Prac	N/A	N/A
CASF06 Prac	N/A	N/A
CASF05 Recording	N/A	N/A
CASF02 Music Class 2	YES (+24.7%)	NO
CASF01 Music Class 1	YES (+38.1%)	NO
CASF15 General Art Room 3	NO (-68.3%)	NO
CASF11 Prac	NO (-28.7%)	NO
CASF10 Prac	NO (-33%)	NO
CASF22 Meeting	N/A	N/A
ADGF01 Reception Admin NVRAD	NO (-82.9%)	NO
ADGF17 Conference room NVRAD	NO (-87.9%)	NO
ADGF08 Sfl Office NVRAD	NO (-41.9%)	NO
ADGF02 Print room repro MVRAD	NO (-96.6%)	NO
SDGF13 meeting room NVRAD	N/A	N/A
ADGF11 data exams team	NO (-56.6%)	NO
ADGF12 Info Manager MVRAD	NO (-89.6%)	NO

Solar gain limit exceeded? (%)	Internal blinds used?
NO (-90.9%)	NO
NO (-99%)	NO
N/A	N/A
NO (-96.6%)	NO
NO (-91.2%)	NO
NO (-75.8%)	NO
NO (-55.7%)	NO
NO (-96.5%)	NO
NO (-34.5%)	NO
N/A	N/A
NO (-95.8%)	NO
N/A	N/A
NO (-90.5%)	NO
NO (-95.5%)	NO
NO (-93.3%)	NO
NO (-63.8%)	NO
N/A	N/A
N/A	N/A
N/A	N/A
NO (-98.5%)	NO
NO (-97.9%)	NO
YES (+56.2%)	NO
NO (-48.5%)	NO
NO (-55%)	NO
NO (-33.6%)	NO
NO (-60.9%)	NO
NO (-38.9%)	NO
NO (-53.7%)	NO
NO (-66.3%)	NO
NO (-99.2%)	NO
NO (-60%)	NO
NO (-46.1%)	NO
YES (+49.1%)	NO
YES (+28.4%)	NO
YES (+34%)	NO
YES (+31.6%)	NO
YES (+28.3%)	NO
YES (+29.2%)	NO
YES (+46.5%)	NO
NO (-61.6%)	NO
NO (-52.7%)	NO
YES (+56.8%)	NO
YES (+145.8%)	NO
NO (-47.8%)	NO
	NO (-90.9%) NO (-99%) N/A NO (-96.6%) NO (-91.2%) NO (-55.7%) NO (-55.7%) NO (-34.5%) N/A N/A N/A N/A N/A N/A N/A N/A N/A N/O (-95.8%) NO (-95.8%) NO (-95.5%) NO (-93.3%) NO (-63.8%) N/A

LRFF02 Conn Career NVUF	Zone	Solar gain limit exceeded? (%)	Internal blinds used?
LRGF02 office	LRFF03 Post NVUF	NO (-43.8%)	NO
ELSF15 Urik Exo LISF14 Large Class NVRAD N/A ELSF16 Large Class NVRAD NO (-38.1%) NO ELSF05 Large Class NVRAD NO (-38.9%) NO ELSF05 Large Class NVRAD NO (-34.9%) NO ELSF06 Standard Class NVRAD NO (-34.9%) NO ELSF06 Standard Class NVRAD NO (-34.9%) NO ELSF06 Standard Class NVRAD NO (-34.9%) NO ELSF08 Standard Class NVRAD NO (-53.4%) NO ELSF08 Meeting LSF08 Meeting LSF09 Slandard Class NVFAD N/A ELSF01 Staff Prep NVUF NO (-53.4%) NO ELSF03 Dining Hub MVRAD N/A ELSF01 Staff Prep NVUF NO (-45.6%) NO ELSF19 Seminar Room VRAD NO (-45.6%) NO ELSF19 Seminar Room Class 2 YES (+54.3%) NO ELSF18 Large Class 63 YES (+54.2%) NO ELSF16 Standard Class YES (+55.1%) NO ELSF15 D of L Past Leader N/A ELSF15 D of L Past Leader N/A ELSF21 Standard Class YES (+55.1%) NO ELSF12 Standard Class YES (+55.9%) NO ELSF12 Standard Class YES (+55.9%) NO ELSF13 D T Past Leader N/A ELSF21 Standard Class YES (+55.9%) NO ELSF15 D ON ELSF16 Standard Class YES (+55.9%) NO ELSF17 Standard Class YES (+55.9%) NO ELSF18 Standard Class YES (+55.9%) NO ELSF19 Seminar Room VRAD N/A ELSF21 Standard Class YES (+55.9%) NO ELSF10 NO ELSF10 NO ELSF10 NO ELSF10 Standard Class YES (+55.9%) NO ELSF10 NO ELSF10 NO ELSF10 Standard Class YES (+55.9%) NO ELSF10 Standard Class YES (+55.9%) NO MF13 Group Area MVRAD N/A N/A N/A N/A N/A N/A N/A N	LRFF02 Conn Career NVUF	NO (-49.9%)	NO
ELSF16 Wrk Exo N/A N/A N/A ELSF06 Large Class NVRAD NO (-38.1%) NO ELSF06 Standard Class NVRAD NO (-34.9%) NO ELSF06 Standard Class NVRAD NO (-49.2%) NO ELSF06 Standard Class NVRAD NO (-34.9%) NO ELSF08 Large Class NVRAD NO (-34.9%) NO ELSF08 Meeting N/A N/A ELSF01 English Homebase YES (+1518.2%) NO ELSF01 English Homebase YES (+1518.2%) NO ELSF10 Staff Prep N/UF NO (-34.1%) NO ELSF11 Seminar room NVRAD NO (-45.6%) NO ELSF12 Seminar Room Class 2 YES (+53.9%) NO ELSF18 Large Class 63 YES (+54.3%) NO ELSF18 Standard Class YES (+54.12%) NO ELSF15 D of L Past Leader N/A N/A ELSF22 Standard Class YES (+55.1%) NO ELSF23 Standard Class YES (+55.9%) NO ELSF22 Standard Class YES (+56.6%) NO ELSF22 Standard Class YES (+56.9%) <td>LRGF02 office</td> <td>NO (-77.6%)</td> <td>NO</td>	LRGF02 office	NO (-77.6%)	NO
ELSF14 Large Class NVRAD NO (-38.1%) NO ELSF12 Standard Class NVRAD YES (+78.9%) NO ELSF12 Standard Class NVRAD NO (-49.2%) NO ELSF06 Standard Class NVRAD NO (-49.2%) NO ELSF09 Standard Class NVRAD NO (-34%) NO ELSF09 Standard Class NVUF NO (-53.4%) NO ELSF08 Meeting NA N/A N/A ELSF01 English Homebase YES (+1518.2%) NO ELSF03 Dining Hub MVRAD N/A N/A ELSF10 Standard Class NO (-45.6%) NO ELSF11 Seminar Room Class 2 YES (+54.3%) NO ELSF19 Seminar Room Class 2 YES (+53%) NO ELSF18 Large Class 63 YES (+53%) NO ELSF18 Standard Class YES (+55.1%) NO ELSF19 Seminar Room Class 2 YES (+55.1%) NO ELSF19 Standard Class YES (+53.1%) NO ELSF19 Standard Class YES (+55.1%) NO ELSF25 Standard Class 1 VER (+50.4%) NO NO ELSF25 Standard	ELSF13 Large Class NVRAD	NO (-63.3%)	NO
ELSF05 Large Class NVRAD YES (+78.9%) NO ELSF06 Standard Class NVRAD NO (-34.9%) NO ELSF06 Standard Class NVRAD NO (-49.2%) NO ELSF09 Standard Class NVLF NO (-53.4%) NO ELSF09 Standard Class NVLF NO (-53.4%) NO ELSF09 Meeting N/A N/A ELSF01 English Homebase YES (+1518.2%) NO ELSF03 Dining Hub MVRAD N/A N/A ELSF10 Staff Prep NVLF NO (-34.1%) NO ELSF11 Seminar room NVRAD NO (-45.6%) NO ELSF18 Large Class 63 YES (+54.3%) NO ELSF18 Standard Class YES (+54.3%) NO ELSF18 Standard Class YES (+55.9%) NO ELSF15 D of L Past Leader N/A N/A ELSF23 SLT Admin YES (+25.7%) NO ELSF21 Standard Class YES (+55.9%) NO ELSF22 Standard Class YES (+55.9%) NO ELSF20 Standard Class YES (+56.9%) NO ELSF20 Standard Class YES (+56.9%) NO	ELSF15 Wrk Exo	N/A	N/A
ELSF12 Standard Class NVRAD NO (-34.9%) NO ELSF06 Standard Class NVRAD NO (-49.2%) NO ELSF04 Large Class NVRAD NO (-34%) NO ELSF08 Meeting N/A N/A N/A ELSF01 English Homebase YES (+1518.2%) NO ELSF02 Dining Hub MVRAD N/A N/A ELSF10 Staff Prep NVUF NO (-34.1%) NO ELSF11 Seminar room NVRAD NO (-45.6%) NO ELSF11 Seminar room NVRAD NO (-45.6%) NO ELSF11 Seminar room NVRAD NO (-45.6%) NO ELSF15 Large Class 63 YES (+54.3%) NO ELSF16 Large Class 63 YES (+54.3%) NO ELSF17 Standard Class YES (+41.2%) NO ELSF16 Standard Class YES (+55.1%) NO ELSF15 D of L Past Leader N/A N/A ELSF21 Standard Class YES (+55.1%) NO ELSF21 Standard Class YES (+38.8%) NO ELSF21 Standard Class YES (+56%) NO MF703 Pastoral leader MVRAD YES (+56%)	ELSF14 Large Class NVRAD	NO (-38.1%)	NO
ELSF06 Standard Class NVRAD NO (-34%) NO ELSF09 Standard Class NVUF NO (-34%) NO ELSF09 Standard Class NVUF NO (-53.4%) NO ELSF08 Meeting N/A N/A ELSF01 English Homebase YES (+1518.2%) NO ELSF03 Dining Hub MVRAD N/A N/A ELSF10 Staff Prep NVUF NO (-34.1%) NO ELSF11 Seminar Rom NVRAD NO (-45.6%) NO ELSF19 Seminar Room Class 2 YES (+54.3%) NO ELSF19 Seminar Room Class 2 YES (+54.3%) NO ELSF18 Large Class 63 YES (+55.9%) NO ELSF19 Standard Class YES (+55.9%) NO ELSF16 Standard Class YES (+55.1%) NO ELSF15 D of L Past Leader N/A N/A ELSF2 Standard Class YES (+57.2%) NO ELSF22 Standard Class YES (+57.2%) NO ELSF22 Standard Class YES (+55%) NO ELSF22 Standard Class YES (+55%) NO ELSF22 Standard Class YES (+56%) NO <td>ELSF05 Large Class NVRAD</td> <td>YES (+78.9%)</td> <td>NO</td>	ELSF05 Large Class NVRAD	YES (+78.9%)	NO
ELSF04 Large Class NVRAD NO (-34%) NO ELSF09 Standard Class NVUF NO (+53.4%) NO ELSF08 Meeting N/A N/A ELSF01 English Homebase YES (+1518.2%) NO ELSF03 Dining Hub MVRAD N/A N/A ELSF10 Staff Prep NVUF NO (-34.1%) NO ELSF11 Seminar room NVRAD NO (-45.6%) NO ELSF19 Seminar Room Class 2 YES (+54.3%) NO ELSF19 Seminar Room Class 2 YES (+54.2%) NO ELSF18 Large Class 63 YES (+54.2%) NO ELSF19 Standard Class YES (+55.4%) NO ELSF10 T Standard Class YES (+55.1%) NO ELSF10 T Standard Class YES (+57.2%) NO ELSF23 SLT Admin YES (+57.2%) NO ELSF22 Standard Class YES (+37.2%) NO ELSF22 Standard Class YES (+37.2%) NO ELSF22 Standard Class YES (+39.8%) NO ELSF22 Standard Class YES (+55%) NO CR125 Pastoral leader MVRAD YES (+55%) NO	ELSF12 Standard Class NVRAD	NO (-34.9%)	NO
ELSF09 Standard Class NVUF NO (-53.4%) NO ELSF08 Meeting N/A N/A ELSF01 English Homebase YES (+1518.2%) NO ELSF03 Dining Hub MVRAD N/A N/A ELSF10 Staff Prep NVUF NO (-34.1%) NO ELSF19 Seminar room NVRAD NO (-45.6%) NO ELSF19 Seminar Room Class 2 YES (+54.3%) NO ELSF19 Seminar Room Class 2 YES (+55.9%) NO ELSF18 Large Class 63 YES (+55.1%) NO ELSF19 Standard Class YES (+55.1%) NO ELSF15 Standard Class YES (+55.1%) NO ELSF23 SLT Admin YES (+25.7%) NO ELSF23 Standard Class YES (+37.2%) NO ELSF22 Standard Class YES (+39.8%) NO ELSF29 Standard Class YES (+55.6%) NO GR125 Pastoral leader MVRAD YES (+56.6%) NO MF13 Group Area MVRAD NO (-22.7%) NO MF713 Group Area MVRAD NO (-22.7%) NO MF713 Group Area MVRAD NO NO	ELSF06 Standard Class NVRAD	NO (-49.2%)	NO
ELSF08 Meeting N/A N/A N/A ELSF01 English Homebase YES (+1518.2%) NO ELSF03 Dining Hub MVRAD N/A N/A ELSF10 Staff Prep NVUF NO (-34.1%) NO ELSF11 Staff Prep NVUF NO (-34.5%) NO ELSF11 Seminar room NVRAD NO (-45.6%) NO ELSF19 Seminar Room Class 2 YES (+54.3%) NO ELSF19 Seminar Room Class 3 YES (+55.3%) NO ELSF16 Standard Class 4 YES (+45.5%) NO ELSF16 Standard Class 5 YES (+45.5%) NO ELSF15 D of L Past Leader 6 N/A N/A ELSF12 Standard Class 7 YES (+25.7%) NO ELSF22 Standard Class 7 YES (+39.2%) NO ELSF21 Standard Class 7 YES (+39.8%) NO ELSF20 Standard Class 7 YES (+5.6%) NO CR125 Pastoral leader MVRAD 7 YES (+5.6%) NO MFF13 Group Area MVRAD 7 YES (+5.6%) NO MFF13 Group Area MVRAD NO (-22.7%) NO NO MFF08 Maths ICT Rich Class 3 NVRAD NO (ELSF04 Large Class NVRAD	NO (-34%)	NO
ELSF01 English Homebase YES (+1518.2%) NO ELSF03 Dining Hub MVRAD N/A N/A ELSF10 Staff Prep NVUF NO (-34.1%) NO ELSF11 Seminar room NVRAD NO (-45.6%) NO ELSF19 Seminar Room Class 2 YES (+54.3%) NO ELSF19 Seminar Room Class 2 YES (+53%) NO ELSF16 Standard Class 5 YES (+55.9%) NO ELSF16 Standard Class YES (+55.1%) NO NO ELSF15 D of L Past Leader N/A N/A N/A N/A ELSF23 SLT Admin YES (+25.7%) NO NO ELSF22 Standard Class YES (+39.9%) NO NO ELSF21 Standard Class YES (+39.9%) NO NO ELSF22 Standard Class YES (+39.9%) NO NO ELSF21 Standard Class YES (+55%) NO NO MF13 Group Area MVRAD YES (+5.6%) NO NO MF13 Group Area MVRAD NO (-22.7%) NO NO MF707 Maths Standard Class 2 NVRADO (-32.3%) NO NO MF708 Maths Standard Class 3 NVRADO (-30.2%) NO NO MF709 Maths Standard	ELSF09 Standard Class NVUF	NO (-53.4%)	NO
ELSF03 Dining Hub MVRAD N/A ELSF10 Staff Prep NVUF NO (-34.1%) NO NO ELSF11 Seminar room NVRAD NO (-45.6%) ELSF19 Seminar Room Class 2 YES (+54.3%) ELSF18 Large Class 63 YES (+54.3%) NO NO ELSF17 Standard Class YES (+41.2%) ELSF16 Standard Class YES (+55.1%) ELSF15 D of L Past Leader N/A ELSF23 SLT Admin YES (+55.7%) ELSF22 Standard Class YES (+37.2%) ELSF21 Standard Class YES (+39.8%) NO ELSF21 Standard Class ELSF20 Standard Class YES (+55%) NO CR125 Pastoral leader MVRAD YES (+56%) NO MFF13 Group Area MVRAD NO (-22.7%) MFF08 Maths ICT Rich Class 2 NVR ADD (-32.3%) NO MFF07 Maths Standard Class 4 NVR ADD (-32.3%) NO MFF08 Maths Standard Class 3 NVR ADD (-42.8%) NO MFF08 Maths Standard Class 1 NVR ADD (-68.6%) NO MFF06 Maths Standard Class 1 NVR ADD (-68.6%) NO MFF06 Maths ICT Rich Class 1 NVR ADD (-68.6%)	ELSF08 Meeting	N/A	N/A
ELSF10 Staff Prep NVUF NO (-34.1%) NO ELSF11 Seminar room NVRAD NO (-45.6%) NO ELSF19 Seminar Room Class 2 YES (+54.3%) NO ELSF18 Large Class 63 YES (+54.3%) NO ELSF17 Standard Class YES (+41.2%) NO ELSF15 Standard Class YES (+55.1%) NO ELSF15 D of L Past Leader N/A N/A ELSF23 SLT Admin YES (+25.7%) NO ELSF22 Standard Class YES (+37.2%) NO ELSF21 Standard Class YES (+39.8%) NO ELSF21 Standard Class YES (+55.6%) NO CR125 Pastoral leader MVRAD YES (+5.6%) NO MFF13 Group Area MVRAD NO (-22.7%) NO MFF13 Group Area MVRAD N/A N/A MFF08 Maths ICT Rich Class 2 NVRADO (-32.3%) NO MFF08 Maths Standard Class 4 NVRADO (-23.6%) NO MFF08 Maths Standard Class 3 NVRADO (-30.2%) NO MFF05 Maths Standard Class 1 NVRADO (-42.8%) NO MFF06 Maths Standard Class 1 NVRADO (-42.8%) NO MFF01 Ma	ELSF01 English Homebase	YES (+1518.2%)	NO
ELSF11 Seminar room NVRAD	ELSF03 Dining Hub MVRAD	N/A	N/A
ELSF19 Seminar Room Class 2 YES (+54.3%) NO ELSF18 Large Class 63 YES (+53%) NO ELSF17 Standard Class YES (+41.2%) NO ELSF16 Standard Class YES (+55.1%) NO ELSF15 D of L Past Leader N/A N/A ELSF23 SLT Admin YES (+25.7%) NO ELSF22 Standard Class YES (+37.2%) NO ELSF21 Standard Class YES (+39.8%) NO ELSF20 Standard Class YES (+55%) NO CR125 Pastoral leader MVRAD YES (+5.6%) NO MFF13 Group Area MVRAD N/A N/A MFF13 Group Area MVRAD N/A N/A MFF08 Maths ICT Rich Class 2 NVR ABDO (-32.3%) NO MFF07 Maths Standard Class 4 NVR/ABDO (-32.3%) NO MFF08 Maths Standard Class 2 NVR ABDO (-32.8%) NO MFF05 Maths Standard Class 1 NVR ABDO (-42.8%) NO MFF04 Maths Standard Class 3 NVR ABDO (-42.8%) NO MFF01 Store NO (-85.5%) NO MFF04 Maths ICT Rich Class 3 NVR ABDO (-82.6%) NO MFF16 Maths ICT Rich Class 3	ELSF10 Staff Prep NVUF	NO (-34.1%)	NO
ELSF18 Large Class 63	ELSF11 Seminar room NVRAD	NO (-45.6%)	NO
ELSF17 Standard Class	ELSF19 Seminar Room Class 2	YES (+54.3%)	NO
ELSF16 Standard Class YES (+55.1%) NO ELSF15 D of L Past Leader N/A N/A ELSF23 SLT Admin YES (+25.7%) NO ELSF22 Standard Class YES (+37.2%) NO ELSF21 Standard Class YES (+39.8%) NO ELSF20 Standard Class YES (+55%) NO CR125 Pastoral leader MVRAD YES (+56%) NO MFF13 Group Area MVRAD NO (-22.7%) NO MFF13 Group Area MVRAD N/A N/A MFF08 Maths ICT Rich Class 2 NVR ADO (-32.3%) NO MFF08 Maths Standard Class 4 NVR ADO (-32.3%) NO MFF06 Maths Standard Class 3 NVR ADO (-30.2%) NO MFF05 Maths Standard Class 3 NVR ADO (-42.8%) NO MFF05 Maths Standard Class 1 MVR ADO (-42.8%) NO MFF06 Maths Standard Class 1 MVR ADO (-68.6%) NO MFF16 Maths ICT Rich Class 3 NVR ADE (-68.6%) NO MFF11 Store NO (-85.5%) NO MFF16 Maths ICT Rich Class 3 NVR ADO (-68.6%) NO MFF14 ICT Rich Class 1 NVR ADO (-82.6%) NO MGF03 Maths ICT Rich Class 1 NVR ADO (-30.2%)	ELSF18 Large Class 63	YES (+53%)	NO
ELSF15 D of L Past Leader N/A N/A ELSF23 SLT Admin YES (+25.7%) NO ELSF22 Standard Class YES (+37.2%) NO ELSF21 Standard Class YES (+39.8%) NO ELSF20 Standard Class YES (+55%) NO CR125 Pastoral leader MVRAD YES (+5.6%) NO MF713 Group Area MVRAD NO (-22.7%) NO MF713 Group Area MVRAD N/A N/A MF708 Maths ICT Rich Class 2 NVRADO (-32.3%) NO MFF07 Maths Standard Class 4 NVRADO (-30.2%) NO MFF06 Maths Standard Class 3 NVRADO (-23.6%) NO MFF05 Maths Standard Class 1 MVRADO (-42.8%) NO MFF06 Maths Standard Class 1 MVRADO (-68.6%) NO MFF06 Maths ICT Rich Class 3 NVRADO (-68.6%) NO MFF16 Maths ICT Rich Class 3 NVRADE (+96.4%) NO F meeting room MVRAD N/A MFF14 ICT Rich Class NVRAD NO (-61.1%) MGF03 Maths ICT Rich Class 1 NVRADO (-82%) NO MGF03 Maths LCT Rich Class 1 NVRADO (-39.4%) NO MGF01 Maths Large Class 1 NVRAD NO (-37.9%) NO	ELSF17 Standard Class	YES (+41.2%)	NO
ELSF23 SLT Admin YES (+25.7%) NO ELSF22 Standard Class YES (+37.2%) NO ELSF21 Standard Class YES (+39.8%) NO ELSF20 Standard Class YES (+55%) NO CR125 Pastoral leader MVRAD YES (+5.6%) NO MFF13 Group Area MVRAD NO (-22.7%) NO MFF13 Group Area MVRAD NO (-22.7%) NO F SLT office MVRAD N/A N/A MFF08 Maths ICT Rich Class 2 NVRADO (-32.3%) NO MFF07 Maths Standard Class 2 NVRADO (-32.6%) NO MFF05 Maths Standard Class 3 NVRADO (-30.2%) NO MFF05 Maths Standard Class 3 NVRADO (-42.8%) NO MFF01 Store NO (-85.5%) NO MFF01 Store NO (-85.5%) NO MFF16 Maths ICT Rich Class 3 NVRADES (+96.4%) NO F meeting room MVRAD N/A N/A MGF04 Maths ICT Rich Class 1 NVRAD NO (-61.1%) NO MGF03 Maths ICT Rich Class 3 NVRAD NO (-31.7%) NO MGF01 Maths Large Class 1 NVRAD NO (-39.4%) NO MGF01 Maths Large Class 1 NVRAD NO (-37.9%) NO <td>ELSF16 Standard Class</td> <td>YES (+55.1%)</td> <td>NO</td>	ELSF16 Standard Class	YES (+55.1%)	NO
ELSF22 Standard Class YES (+37.2%) NO ELSF21 Standard Class YES (+39.8%) NO ELSF20 Standard Class YES (+55%) NO CR125 Pastoral leader MVRAD YES (+5.6%) NO MFF13 Group Area MVRAD NO (-22.7%) NO MFF13 Group Area MVRAD N/A N/A MFF08 Maths ICT Rich Class 2 NVRADO (-32.3%) NO MFF08 Maths Standard Class 4 NVRADO (-30.2%) NO MFF06 Maths Standard Class 3 NVRADO (-30.2%) NO MFF05 Maths Standard Class 2 NVRADO (-42.8%) NO MFF04 Maths Standard Class 1 MVRADO (-68.6%) NO MFF01 Store NO (-85.5%) NO MFF16 Maths ICT Rich Class 3 NVRADES (+96.4%) NO F meeting room MVRAD N/A N/A MFF14 ICT Rich Class 1NVRAD NO (-61.1%) NO MGF04 Maths ICT Rich Class 1 NVRADO (-82%) NO NO MGF03 Maths ICT Rich Class 3 NVRADO (-39.4%) NO NO MGF01 Maths Large Class 2 NVRAD NO (-31.7%) NO NO SCGF10 Product Design Room NO (-4.9%) NO	ELSF15 D of L Past Leader	N/A	N/A
ELSF21 Standard Class YES (+39.8%) NO ELSF20 Standard Class YES (+55%) NO CR125 Pastoral leader MVRAD YES (+5.6%) NO MFF13 Group Area MVRAD NO (-22.7%) NO MFF13 Group Area MVRAD N/A N/A MFF08 Maths ICT Rich Class 2 NVRADO (-32.3%) NO MFF08 Maths ICT Rich Class 2 NVRADO (-23.6%) NO MFF07 Maths Standard Class 4 NVRADO (-23.6%) NO MFF08 Maths Standard Class 3 NVRADO (-30.2%) NO MFF05 Maths Standard Class 2 NVRADO (-42.8%) NO MFF04 Maths Standard Class 1 NVRADO (-85.5%) NO MFF01 Store NO MFF16 Maths ICT Rich Class 3 NVRADES (+96.4%) NO MFF16 Maths ICT Rich Class 3 NVRADD NO (-81.1%) NO MFF14 ICT Rich Class NVRAD NO (-61.1%) NO MGF04 Maths ICT Rich Class 1 NVRADD (-82%) NO MGF02 Maths Large Class 2 NVRAD NO (-31.7%) NO MGF01 Maths Large Class 1 NVRAD NO (-37.9%) NO SCGF10 Product Design Room NO (-4.9%) NO SCFF10 Serviced Lab 4 NO (-28.2%) NO	ELSF23 SLT Admin	YES (+25.7%)	NO
ELSF20 Standard Class YES (+55%) NO CR125 Pastoral leader MVRAD YES (+5.6%) NO MFF13 Group Area MVRAD NO (-22.7%) NO F SLT office MVRAD N/A N/A MFF08 Maths ICT Rich Class 2 NVRADO (-32.3%) NO MFF07 Maths Standard Class 4 NVRADO (-23.6%) NO MFF06 Maths Standard Class 3 NVRADO (-30.2%) NO MFF05 Maths Standard Class 1 NVRADO (-42.8%) NO MFF04 Maths Standard Class 1 MVRADO (-86.6%) NO MFF01 Store NO (-85.5%) NO MFF16 Maths ICT Rich Class 3 NVRADES (+96.4%) NO F meeting room MVRAD N/A N/A MFF14 ICT Rich Class NVRAD NO (-61.1%) NO MGF04 Maths ICT Rich Class 1 NVRADO (-82%) NO NO MGF02 Maths Large Class 2 NVRAD NO (-31.7%) NO NO MGF01 Maths Large Class 1 NVRAD NO (-37.9%) NO NO SCGF10 Product Design Room NO (-4.9%) NO SCFF10 Serviced Lab 4 NO (-28.7%) NO SCFF02 Serviced Lab 2 NO (-21.5%) NO	ELSF22 Standard Class	YES (+37.2%)	NO
CR125 Pastoral leader MVRAD YES (+5.6%) NO MFF13 Group Area MVRAD NO (-22.7%) NO F SLT office MVRAD N/A N/A MFF08 Maths ICT Rich Class 2 NVRADO (-32.3%) NO MFF07 Maths Standard Class 4 NVRADO (-23.6%) NO MFF06 Maths Standard Class 3 NVRADO (-30.2%) NO MFF05 Maths Standard Class 2 NVRADO (-42.8%) NO MFF04 Maths Standard Class 1 MVRADO (-68.6%) NO MFF01 Store NO (-85.5%) NO MFF16 Maths ICT Rich Class 3 NVRADO (-82.5%) NO MFF14 ICT Rich Class NVRAD NO (-61.1%) NO MGF04 Maths ICT Rich Class 1 NVRADO (-82%) NO MGF03 Maths ICT Rich Class 3 NVRADO (-39.4%) NO MGF02 Maths Large Class 2 NVRAD NO (-31.7%) NO MGF01 Maths Large Class 1 NVRAD NO (-37.9%) NO SCGF10 Product Design Room NO (-4.9%) NO SCFF10 Serviced Lab 4 NO (-28.7%) NO SCFF02 Serviced Lab 2 NO (-21.5%) NO SCFF04 Multiuse Lab 1 NO (-1.4%) NO	ELSF21 Standard Class	YES (+39.8%)	NO
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F SLT office MVRAD N/A N/A MFF08 Maths ICT Rich Class 2 NVRADO (-32.3%) NO MFF07 Maths Standard Class 4 NVRADO (-23.6%) NO MFF06 Maths Standard Class 3 NVRADO (-30.2%) NO MFF05 Maths Standard Class 2 NVRADO (-42.8%) NO MFF04 Maths Standard Class 1 MVRADO (-68.6%) NO MFF01 Store NO (-85.5%) NO MFF16 Maths ICT Rich Class 3 NVRADES (+96.4%) NO F meeting room MVRAD N/A N/A MFF14 ICT Rich Class NVRAD NO (-61.1%) NO MGF04 Maths ICT Rich Class 1 NVRADO (-82%) NO MGF03 Maths ICT Rich Class 3 NVRADO (-39.4%) NO MGF02 Maths Large Class 2 NVRAD NO (-31.7%) NO MGF01 Maths Large Class 1 NVRAD NO (-37.9%) NO SCGF10 Product Design Room NO (-4.9%) NO SCFF10 Serviced Lab 4 NO (-28.7%) NO SCFF02 Serviced Lab 2 NO (-21.5%) NO SCFF04 Multiuse Lab 1 NO (-21.4%) NO	CR125 Pastoral leader MVRAD	YES (+5.6%)	NO
MFF08 Maths ICT Rich Class 2 NVR ADO (-32.3%) NO MFF07 Maths Standard Class 4 NVR ADO (-23.6%) NO MFF06 Maths Standard Class 3 NVR ADO (-30.2%) NO MFF05 Maths Standard Class 2 NVR ADO (-42.8%) NO MFF04 Maths Standard Class 1 MVR ADO (-68.6%) NO MFF01 Store NO (-85.5%) NO MFF16 Maths ICT Rich Class 3 NVR ADES (+96.4%) NO F meeting room MVRAD N/A N/A MFF14 ICT Rich Class NVRAD NO (-61.1%) NO MGF04 Maths ICT Rich Class 1 NVR ADO (-82%) NO MGF03 Maths ICT Rich Class 3 NVR ADD (-39.4%) NO MGF02 Maths Large Class 2 NVRAD NO (-31.7%) NO MGF01 Maths Large Class 1 NVRAD NO (-37.9%) NO SCGF10 Product Design Room NO (-4.9%) NO SCFF10 Serviced Lab 4 NO (-28.7%) NO SCFF02 Serviced Lab 2 NO (-21.5%) NO SCFF04 Multiuse Lab 1 NO (-1.4%) NO	MFF13 Group Area MVRAD	NO (-22.7%)	NO
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MFF06 Maths Standard Class 3 NVR ADD (-30.2%) NO MFF05 Maths Standard Class 2 NVR ADD (-42.8%) NO MFF04 Maths Standard Class 1 MVR ADD (-68.6%) NO MFF01 Store NO (-85.5%) NO MFF16 Maths ICT Rich Class 3 NVR ADES (+96.4%) NO F meeting room MVRAD N/A N/A MFF14 ICT Rich Class NVRAD NO (-61.1%) NO MGF04 Maths ICT Rich Class 1 NVRADD (-82%) NO MGF03 Maths ICT Rich Class 3 NVRADD (-39.4%) NO MGF02 Maths Large Class 2 NVRAD NO (-31.7%) NO MGF01 Maths Large Class 1 NVRAD NO (-37.9%) NO SCGF10 Product Design Room NO (-4.9%) NO SCFF10 Serviced Lab 4 NO (-28.7%) NO S circulation above arcade MVRAD NO (-82.2%) NO NO SCFF02 Serviced Lab 2 NO (-21.5%) NO SCFF04 Multiuse Lab 1 NO (-1.4%) NO	MFF08 Maths ICT Rich Class 2 NVR	ADO (-32.3%)	NO
MFF05 Maths Standard Class 2 NVRAIDO (-42.8%) NO MFF04 Maths Standard Class 1 MVRAIDO (-68.6%) NO MFF01 Store NO (-85.5%) NO MFF16 Maths ICT Rich Class 3 NVRAIDES (+96.4%) NO F meeting room MVRAD N/A N/A MFF14 ICT Rich Class NVRAD NO (-61.1%) NO MGF04 Maths ICT Rich Class 1 NVRAIDO (-82%) NO MGF03 Maths ICT Rich Class 3 NVRAIDO (-39.4%) NO MGF02 Maths Large Class 2 NVRAD NO (-31.7%) NO MGF01 Maths Large Class 1 NVRAD NO (-37.9%) NO SCGF10 Product Design Room NO (-4.9%) NO SCFF10 Serviced Lab 4 NO (-28.7%) NO S circulation above arcade MVRAD NO (-82.2%) NO SCFF02 Serviced Lab 2 NO (-21.5%) NO SCFF04 Multiuse Lab 1 NO (-1.4%) NO	MFF07 Maths Standard Class 4 NVR	ANDO (-23.6%)	NO
MFF04 Maths Standard Class 1 MVR AND (-68.6%) NO MFF01 Store NO (-85.5%) NO MFF16 Maths ICT Rich Class 3 NVR ANDES (+96.4%) NO F meeting room MVRAD N/A N/A MFF14 ICT Rich Class NVRAD NO (-61.1%) NO MGF04 Maths ICT Rich Class 1 NVRANDO (-82%) NO MGF03 Maths ICT Rich Class 3 NVRANDO (-39.4%) NO MGF02 Maths Large Class 2 NVRAD NO (-31.7%) NO MGF01 Maths Large Class 1 NVRAD NO (-37.9%) NO SCGF10 Product Design Room NO (-4.9%) NO SCFF10 Serviced Lab 4 NO (-28.7%) NO S circulation above arcade MVRAD NO (-82.2%) NO SCFF02 Serviced Lab 2 NO (-21.5%) NO SCFF04 Multiuse Lab 1 NO (-1.4%) NO	MFF06 Maths Standard Class 3 NVR	ANDO (-30.2%)	NO
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SCFF04 Multiuse Lab 1 NO (-1.4%) NO	S circulation above arcade MVRAD	NO (-82.2%)	NO
SCFF04 Multiuse Lab 1 NO (-1.4%) NO	SCFF02 Serviced Lab 2	NO (-21.5%)	NO
	SCFF04 Multiuse Lab 1	, ,	NO
	SCFF06 Prep Instruments	NO (-18%)	NO
SCFF07 Paired Multi Use lab 2 YES (+9.5%) NO	· · · · · · · · · · · · · · · · · · ·	, ,	NO
SCFF08 Serviced Lab 3 YES (+13.4%) NO	SCFF08 Serviced Lab 3	, ,	NO

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
SCFF09 Prep Room	NO (-34.2%)	NO
SCFF11 Science Studio 3	NO (-48.5%)	NO
SCFF13 Pastoral Leader Admin	NO (-74.3%)	NO
SCFF03 Prep	NO (-67.7%)	NO
SCFF05 Breakout	NO (-29.5%)	NO
SCFF01 Science Studio 4	NO (-62.7%)	NO
SCFF03 Prep	NO (-87%)	NO
SCFF14 meeting	NO (-68.9%)	NO
SCGF05 Science Studio 2	NO (-71.2%)	NO
SCGF06 Sevice Lab 1	NO (-26.6%)	NO
SCGF07 Science Studio 1	YES (+2.5%)	NO
SCGF08 Prep Room	NO (-44.7%)	NO
SCGF09 Interactive Theatre	YES (+133.8%)	NO
SCGF10 Product Design Room	NO (-22.7%)	NO
SCGF11 Graphics Room 1	YES (+10.4%)	NO
SCGF13 Materials Prep	YES (+12.3%)	NO
SCGF14 Resistant Materials	NO (-10.7%)	NO
SCGF18 Graphics Room 2	NO (-81.9%)	NO
SCGF01 Homebase NVUF	NO (-34.8%)	NO
SCGF02 Staff Work Prep	NO (-78.8%)	NO
SCGF04 Prep room	NO (-70%)	NO
SCGF09 Interactive Theatre void	YES (+24.8%)	NO
SCGF19 Construction Textiles NVRA	DNO (-15.2%)	NO
SCGF20 Food Room MVRAD	NO (-44.3%)	NO
S circulation above arcade MVRAD	NO (-67.8%)	NO
S circulation MVRAD	YES (+92.7%)	NO
SDGF12 Staff Room NVRAD	NO (-40.5%)	NO
SDGF06 SFL therapy	NO (-45.1%)	NO
SDGF11 councelling room NVRAD	N/A	N/A
SDGF01 Staff Work Area NVRAD	NO (-68.7%)	NO
SDGF04 SFL Office NVRAD	NO (-43.9%)	NO
SDGF09 meeting room	NO (-41.1%)	NO
SDGF05 Counselling room NVRAD	N/A	N/A
SDGF07 LSU Classroom NVUF	NO (-23.7%)	NO
SDGF08 Teaching Room NVUF	NO (-30.6%)	NO
SDGF18 Mentoring MVRAD	NO (-91.6%)	NO
SDGF02 SFL Admin office NVRAD	NO (-74.9%)	NO
G Meeting	N/A	N/A
F Staff prep MVRAD	NO (-78.4%)	NO

Criterion 4: The performance of the building, as built, should be consistent with the BER

Separate submission

Criterion 5: The necessary provisions for enabling energy-efficient operation of the building should be in place

Separate submission

EPBD (Recast): Consideration of alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Area [m²]	13666.4	13666.4
External area [m²]	20801.3	20801.3
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	5	5
Average conductance [W/K]	10134.2	8693.52
Average U-value [W/m²K]	0.49	0.42
Alpha value* [%]	8.86	10

^{*} Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area Building Type

A1/A2 Retail/Financial and Professional services

A3/A4/A5 Restaurants and Cafes/Drinking Est./Takeaways

B1 Offices and Workshop businesses

B2 to B7 General Industrial and Special Industrial Groups

B8 Storage or Distribution

C1 Hotels

C2 Residential Inst.: Hospitals and Care Homes

C2 Residential Inst.: Residential schools

C2 Residential Inst.: Universities and colleges

C2A Secure Residential Inst.

Residential spaces

D1 Non-residential Inst.: Community/Day Centre

D1 Non-residential Inst.: Libraries, Museums, and Galleries

100 D1 Non-residential Inst.: Education

D1 Non-residential Inst.: Primary Health Care Building D1 Non-residential Inst.: Crown and County Courts

D2 General Assembly and Leisure, Night Clubs and Theatres

Others: Passenger terminals Others: Emergency services

Others: Miscellaneous 24hr activities

Others: Car Parks 24 hrs Others - Stand alone utility block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	9.28	8.05
Cooling	0.71	1.9
Auxiliary	6.06	13.29
Lighting	12.87	11.42
Hot water	15.71	14.45
Equipment*	25.66	25.66
TOTAL**	44.64	49.11

^{*} Energy used by equipment does not count towards the total for calculating emissions.

** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	1.38	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	1.01	0

Energy & CO₂ Emissions Summary

	Actual	Indicative Target
Heating + cooling demand [MJ/m ²]	74.76	66.83
Primary energy* [kWh/m²]	91.26	105.82
Total emissions [kg/m²]	15.7	18.9

^{*} Primary energy is net of any electrical energy displaced by CHP generators, if applicable.

Sys	stem Type	Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Central he	eating using	water: rad	iators, [HS]	LTHW boil	ler, [HFT] N	atural Gas,	[CFT] Elec	tricity	
	Actual	101.9	0	31.1	0	2.2	0.91	0	0.97	0
	Notional	71.9	0	24	0	1	0.83	0		
ST] Chilled ce	ilings or pa	ssive chille	d beams a	nd displace	ment venti	lation, [HS]	Heat pump	(electric):	ground or
	Actual	67.4	29.2	4.2	1.1	5	4.45	7.46	5.24	7.91
	Notional	27.5	41.4	3	3	19	2.56	3.79		
[ST] Central he	eating using	water: rad	iators, [HS]	LTHW boil	ler, [HFT] N	atural Gas,	[CFT] Elec	tricity	
	Actual	94.7	0	28.9	0	3.9	0.91	0	0.97	0
	Notional	43.6	0	14.5	0	3	0.83	0		
[ST] Chilled ce	ilings or pa	ssive chille	d beams a	nd displace	ment venti	lation, [HS]	Heat pump	(electric):	ground or
	Actual	88.6	16	5.2	0.6	10.7	4.75	6.98	5.24	7.91
	Notional	63.4	28.5	6.9	2.1	10.3	2.56	3.79		
[ST] Constant	volume sys	tem (fixed f	resh air rat	e), [HS] He	at pump (el	ectric): gro	und or wate	er source, [HFT] Elect
	Actual	27.7	16.9	1.6	1.3	16.9	4.87	3.73	5.24	7.91
	Notional	49.7	22	5.4	1.6	16.4	2.56	3.79		
ST] Chilled ce	ilings or pa	ssive chille	d beams a	nd displace	ment venti	ation, [HS]	Heat pump	(electric):	ground or
	Actual	41.7	21.8	2.6	0.8	5.5	4.51	7.37	5.24	7.91
	Notional	54.3	37.6	5.9	2.8	19.1	2.56	3.79		
ST] Chilled ce	ilings or pa	ssive chille	d beams a	nd displace	ment venti	ation, [HS]	Heat pump	(electric):	ground or
	Actual	37.5	43.3	2.3	1.6	7	4.54	7.33	5.24	7.91
	Notional	41.1	49.7	4.5	3.6	24.9	2.56	3.79		
[ST] Chilled ce	ilings or pa	ssive chille	d beams a	nd displace	ment venti	lation, [HS]	Heat pump	(electric):	ground or
	Actual	51.4	29	3.1	1.1	8.2	4.59	7.24	5.24	7.91
	Notional	42.7	46.9	4.6	3.4	21.7	2.56	3.79		
[ST] Central he	eating using	water: rad	iators, [HS]	LTHW boil	ler, [HFT] N	atural Gas,	[CFT] Elec	tricity	-
	Actual	58.5	0	17.9	0	12.7	0.91	0	0.97	0
	Notional	44.2	0	14.7	0	4.7	0.83	0		
[ST] Central he	eating using	water: rad	iators, [HS]	LTHW boi	ler, [HFT] N	atural Gas,	[CFT] Elec	tricity	1
	Actual	24.2	0	7.4	0	38.6	0.91	0	0.97	0
	Notional	6	0	2	0	16.3	0.83	0		
[ST] No Heatin	g or Coolin	g		•	•				
	Actual	0	0	0	0	0	0	0	0	0

Key to terms

Heat dem [MJ/m2] = Heating energy demand

Cool dem [MJ/m2] = Cooling energy demand

Heat con [kWh/m2] = Heating energy consumption

Cool con [kWh/m2] = Cooling energy consumption

Aux con [kWh/m2] = Auxiliary energy consumption

Heat SSEFF = Heating system seasonal efficiency (for notional building, value depends on activity glazing class)

Cool SSEER = Cooling system seasonal energy efficiency ratio
Heat gen SSEFF = Heating generator seasonal efficiency

Cool gen SSEER = Cooling generator seasonal energy efficiency ratio

ST = System type
HS = Heat source
HFT = Heating fuel type
CFT = Cooling fuel type

Key Features

The BCO can give particular attention to items with specifications that are better than typically expected.

Building fabric

Element	U i-Typ	U _{i-Min}	Surface where the minimum value occurs*	
Wall	0.23	0.25	CF000001:Surf[3]	
Floor	0.2	0.15	CG000000:Surf[0]	
Roof	0.15	0.15	CF000001:Surf[1]	
Windows, roof windows, and rooflights	1.5	1.3	CF000001:Surf[0]	
Personnel doors	1.5	0.61	GBNS0000:Surf[4]	
Vehicle access & similar large doors	1.5	-	No Vehicle access doors in building	
High usage entrance doors	1.5	-	No High usage entrance doors in building	
U _{i-Typ} = Typical individual element U-values [W/(m²K)	j		U _{i-Min} = Minimum individual element U-values [W/(m²K)]	
* There might be more than one surface where the minimum U-value occurs.				

Air Permeability	Typical value	This building
m ³ /(h.m ²) at 50 Pa	5	5