

Ratio definitions Version
1.0 Produced 2021-10-29

Section	Ratio ID	Ratio name	Formula	No of DP	Unit	Numerator description	Numerator	Denominator description	Denominator	Is it Key?
Key Ratios										
Linking property to business	042C01S03R09	HEP income per metre ² ; of net internal area	A/(B-C)	0	£	Finance.Income.HESA supplied total income	F_FIIT	SpaceMeasurement.NetInternalArea.Total NIA <i>minus</i> SpaceMeasurement.NetInternalArea.Total NIA commercial space	F_XUP_SMNIAT - F_XUP_SMNIACT	Y
Analysis of maintenance	042C01S06R18	Maintenance costs per metre ² ; of gross internal area	A/(B-C)	2	£	Finance.RepairsandMaintenanceCosts.Total repairs and maintenance costs	F_FRMCT	SpaceMeasurement.GrossInternalArea.Total GIA <i>minus</i> SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIAT - F_SMGIACT	Y
Energy costs, consumption and emissions	042C01S07R16	Energy costs per metre ² ; of gross internal area	A/(B-C)	2	£	Finance.EnergyCosts.Total energy costs	F_FECTOT	SpaceMeasurement.GrossInternalArea.Total GIA <i>minus</i> SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIAT - F_SMGIACT	Y
Water costs and consumption	042C01S08R05	Water consumption per student and staff FTE	A/(B+(CD))	2		EnvironmentEnergyEmissionsandWaste.WaterConsumption.Total water consumption	F_EWCONTOT	StudentStaffCounts.StudentFTE.Total student FTE <i>plus</i> (StudentStaffCounts.StaffFTE.Total staff FTE <i>minus</i> StudentStaffCounts.StaffFTE.Residential staff FTE)	(F_STFTET + (F_SFFTET - F_SFRFTET))	Y
Water costs and consumption	042C01S08R08	Water consumption per HE student and staff FTE	A/(B+C+(D-E))	2		EnvironmentEnergyEmissionsandWaste.WaterConsumption.Total water consumption	F_EWCONTOT	StudentStaffCounts.StudentFTE.HESA supplied teaching student FTE <i>plus</i> StudentStaffCounts.StudentFTE.HESA supplied research student FTE <i>plus</i> (StudentStaffCounts.StaffFTE.Total staff FTE <i>minus</i> StudentStaffCounts.StaffFTE.Residential staff FTE)	(F_STFTETE + F_STFTERE + (F_SFFTET - F_SFRFTET))	Y
Waste	042C01S09R04	Waste mass per student and staff FTE	A/(B+(CD))	3		EnvironmentEnergyEmissionsandWaste.WasteMass.Total waste mass	F_EWMT	StudentStaffCounts.StudentFTE.Total student FTE <i>plus</i> (StudentStaffCounts.StaffFTE.Total staff FTE <i>minus</i> StudentStaffCounts.StaffFTE.Residential staff FTE)	(F_STFTET + (F_SFFTET - F_SFRFTET))	Y
Waste	042C01S09R06	Waste mass per HE student and staff FTE	A/(B+C+(D-E))	3		EnvironmentEnergyEmissionsandWaste.WasteMass.Total waste mass	F_EWMT	StudentStaffCounts.StudentFTE.HESA supplied teaching student FTE <i>plus</i> StudentStaffCounts.StudentFTE.HESA supplied research student FTE <i>plus</i> (StudentStaffCounts.StaffFTE.Total staff FTE <i>minus</i> StudentStaffCounts.StaffFTE.Residential staff FTE)	(F_STFTETE + F_STFTERE + (F_SFFTET - F_SFRFTET))	Y

Space allocation	042C13S02R12	Gross internal area in metre ² per student and staff full-time equivalent (FTE)	A/(B+(CD))	1	m ²	SpaceMeasurement.GrossInternalArea.Non-residential GIA	F_SMGIANR	StudentStaffCounts.StudentFTE.Total student FTE plus (StudentStaffCounts.StaffFTE.Total staff FTE minus StudentStaffCounts.StaffFTE.Residential staff FTE)	(F_STFTET + (F_SFFTET - F_SFRFTET))	Y
------------------	--------------	--	------------	---	----------------	--	-----------	--	-------------------------------------	---

Space allocation	042C13S02R13	Gross internal area in metre ² per HE student and staff full-time equivalent (FTE)	A/(B+C+(D-E))	1	m ²	SpaceMeasurement.GrossInternalArea.Non-residential GIA	F_SMGIANR	StudentStaffCounts.StudentFTE.HESA supplied teaching student FTE plus StudentStaffCounts.StudentFTE.HESA supplied research student FTE plus (StudentStaffCounts.StaffFTE.Total staff FTE minus StudentStaffCounts.StaffFTE.Residential staff FTE)	(F_STFTETE + F_STFTERE + (F_SFFTET - F_SFRFTET))	Y
Condition and suitability	042C13S03R01	Building condition as percentage of gross internal area Condition A and B	A+B	1	%	BuildingsandFunctionality.ConditionAssessmentDefinition.Nonresidential Building Condition Assessment Condition A plus BuildingsandFunctionality.ConditionAssessmentDefinition.Nonresidential Building Condition Assessment Condition B	F_BNRADCA + F_BNRADCB	 	 	Y
Condition and suitability	042C13S03R07	Proportion of space with functional suitability grades 1 and 2	A+B	1	%	BuildingsandFunctionality.FunctionalSuitability.Non-residential functional suitability grade 1 plus BuildingsandFunctionality.FunctionalSuitability.Non-residential functional suitability grade 2	F_BNRFSG1 + F_BNRFSG2	 	 	Y
Condition and suitability	042C13S03R08	Cost to upgrade condition C and D to B as a proportion of total non-residential income	(100*(A+B))/C	1	%	BuildingsandFunctionality.ConditionAssessmentUpgradeCost.Nonresidential building Condition Assessment cost to upgrade Condition D to B plus BuildingsandFunctionality.ConditionAssessmentUpgradeCost.Nonresidential Building Condition Assessment cost to upgrade Condition C to B	F_BNRAUDB + F_BNRAUCB	Finance.Income.HESA supplied non-residential income total	F_FINRIT	Y
Linking property to business	042C13S05R01	Ratio of total Property costs to HEP income	A/B	3		Finance.PropertyCosts.Nonresidential property costs	F_FNRPCO	Finance.Income.HESA supplied non-residential income total	F_FINRIT	Y
Linking property to business	042C13S05R17	Insurance replacement value as a percentage of Non-residential income	(100*A)/B	1	%	BuildingsandFunctionality.InsuranceReplacementValue.Nonresidential insurance replacement value	F_BNRIRV	Finance.Income.HESA supplied non-residential income total	F_FINRIT	Y
Utilisation ratios	042C13S06R01	Total non-residential net internal area per student FTE	A/(B+C+D)	1		SpaceMeasurement.NetInternalArea.Non-residential NIA total	F_XUP_SMNIANRT	StudentStaffCounts.StudentFTE.HESA supplied teaching student FTE plus StudentStaffCounts.StudentFTE.HESA supplied research student FTE plus StudentStaffCounts.StudentFTE.FE student FTE	F_STFTETE + F_STFTERE + F_STFTEFE	Y
Total property costs	042C13S07R01	Total property costs per metre ² of net internal area	A/B	2	£	Finance.PropertyCosts.Nonresidential property costs	F_FNRPCO	SpaceMeasurement.NetInternalArea.Non-residential NIA total	F_XUP_SMNIANRT	Y

Total property costs	042C13S07R03	Total property costs per student FTE	$A/(B+C+D)$	2	£	Finance.PropertyCosts.Nonresidential property costs	F_FNRPCO	StudentStaffCounts.Student FTE.HESA supplied teaching student FTE <i>plus</i> StudentStaffCounts.Student FTE.HESA supplied research student FTE <i>plus</i> StudentStaffCounts.Student FTE.FE student FTE	$F_STFTETE + F_STFTERE + F_STFTEFE$	Y
Analysis of maintenance	042C13S09R15	Expenditure on major and minor capital works and recurrent repairs and maintenance as a percentage of insurance replacement value	$(100*(A+B)/C)$	2	%	Finance.CapitalExpenditureBuildings.HESA supplied nonresidential capital expenditure buildings <i>plus</i> Finance.RepairsandMaintenance Costs.HESA supplied repairs and maintenance costs other operating expenses	$F_FNRCEX + F_FRMCOOE$	BuildingsandFunctionality.InsuranceReplacementValue.Non-residential insurance replacement value	F_BNRRIV	Y
Energy costs, consumption and emissions	042C13S10R13	Scope 1 and 2 carbon emissions per HEP total non-residential income	$A/(10*B)$	2		EnvironmentEnergyEmissionsand Waste.Scope1and2CarbonEmissions.Nonresidential scope 1 and 2 carbon emissions total	F_E12CENRT	Finance.Income.HESA supplied non-residential income total	F_FINRIT	Y

Energy costs, consumption and emissions	042C13S10R14	Scope 1 and 2 carbon emissions per student and staff full-time equivalent (FTE)	$A/(1000*(B+C+D))$	1		EnvironmentEnergyEmissionsand Waste.Scope1and2CarbonEmissions.Non-residential scope 1 and 2 carbon emissions total	F_E12CENRT	StudentStaffCounts.Student FTE.Total student FTE <i>plus</i> (StudentStaffCounts.StaffFTE.Total staff FTE <i>minus</i> StudentStaffCounts.StaffFTE.Residential staff FTE)	$(F_STFTET + (F_SFFTET - F_SFRFTET))$	Y
Energy costs, consumption and emissions	042C13S10R18	Scope 1 and 2 carbon emissions per HE student and staff full-time equivalent (FTE)	$A/(1000*(B+C+(D-E)))$	1		EnvironmentEnergyEmissionsand Waste.Scope1and2CarbonEmissions.Non-residential scope 1 and 2 carbon emissions total	F_E12CENRT	StudentStaffCounts.Student FTE.HESA supplied teaching student FTE <i>plus</i> StudentStaffCounts.Student FTE.HESA supplied research student FTE <i>plus</i> (StudentStaffCounts.StaffFTE.Total staff FTE <i>minus</i> StudentStaffCounts.StaffFTE.Residential staff FTE)	$(F_STFTETE + F_STFTERE + (F_SFFTET - F_SFRFTET))$	Y
Linking property to business	042C14S04R05	HEP income per bedspace	$(A+B)/C$	2	£	Finance.Income.HESA supplied residences income <i>plus</i> Finance.Income.HESA supplied catering income	$F_FIRESI + F_FICATI$	SpaceMeasurement.Number ofBedSpaces.Residential number of bed spaces	F_SMRNBS	Y
Utilisation ratios	042C14S05R06	Total property costs per bedspace	A/B	2	£	Finance.PropertyCosts.Residential property costs	F_FRPCO	SpaceMeasurement.Number ofBedSpaces.Residential number of bed spaces	F_SMRNBS	Y
Total HEP										
Estate structure										
Estate structure	042C01S01R04	Total non-residential net internal area as percentage of total net internal area	$(100*A)/B$	1	%	SpaceMeasurement.NetInternalArea.Non-residential NIA total	F_XUP_SMNIA NRT	SpaceMeasurement.NetInternalArea.Total NIA	F_XUP_SMNIAIAT	N
Estate structure	042C01S01R07	Ratio of net internal area commercial space to gross internal area commercial space	A/B	3		SpaceMeasurement.NetInternalArea.Total NIA commercial space	F_XUP_SMNIA CT	SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIACT	N
Estate structure	042C01S01R08	Listed building coverage as percentage of gross internal area commercial space	$(100*A)/B$	1	%	BuildingsandFunctionality.ListedBuilding Coverage.Total listed building coverage	F_BLBCT	SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIACT	N

Estate structure	042C01S01R09	Ratio of net internal area to gross internal area	(A-B)/(C-D)	3		SpaceMeasurement.NetInternalArea.Total NIA <i>minus</i> SpaceMeasurement.NetInternalArea.Total NIA commercial space	F_XUP_SMNIAT - F_XUP_SMNIACT	SpaceMeasurement.GrossInternalArea.Total GIA <i>minus</i> SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIAT - F_SMGIACT	N
Capital expenditure and value										
Capital expenditure and value	042C01S02R07	Insurance replacement value per metre ² ; of gross internal area commercial space	A/B	2	£	BuildingsandFunctionality.InsuranceReplacementValue.Total insurance replacement value	F_BTIRV	SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIACT	N
Linking property to business										
Linking property to business	042C01S03R01	Ratio of total property costs to HEP income	A/B	3		Finance.PropertyCosts.Total property costs	F_FTPCO	Finance.Income.HESA supplied total income	F_FIIT	N
Linking property to business	042C01S03R02	Ratio of total property costs to HEP Expenditure	A/B	3		Finance.PropertyCosts.Total property costs	F_FTPCO	Finance.Expenditure.HESA supplied total expenditure	F_FEXPT	N

Linking property to business	042C01S03R06	Total backlog affordability score	A/(B+C+D+E)	2		Finance.Income.HESA supplied total income	F_FIIT	Buildingsandfunctionality.ConditionAssessmentUpgradeCost.Non-residential building condition assessment cost to upgrade condition D to B <i>plus</i> Buildingsandfunctionality.ConditionAssessmentUpgradeCost.Non-residential building condition assessment cost to upgrade condition C to B <i>plus</i> Buildingsandfunctionality.ConditionAssessmentUpgradeCost.Residential building condition assessment cost to upgrade condition D to B <i>plus</i> Buildingsandfunctionality.ConditionAssessmentUpgradeCost.Residential building condition assessment cost to upgrade condition C to B	F_BNRAUDB + F_BNRAUCB + F_BRAUDB + F_BRAUCB	N
Linking property to business	042C01S03R08	Capital expenditure as % of HEP Income	(100*A)/B	1	%	Finance.CapitalExpenditureBuildings.HESA supplied total capital expenditure buildings	F_FCEXT	Finance.Income.HESA supplied total income	F_FIIT	N
Linking property to business	042C01S03R10	Total income per metre ² ; of gross internal area	A/(B-C)	2	£	Finance.Income.HESA supplied total income	F_FIIT	SpaceMeasurement.GrossInternalArea.Total GIA <i>minus</i> SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIAT - F_SMGIACT	N
Total property costs										
Total property costs	042C01S04R03	Total property costs per student FTE	A/(B+C+D)	0	£	Finance.PropertyCosts.Total property costs	F_FTPCO	StudentStaffCounts.Student FTE.HESA supplied teaching student FTE <i>plus</i> StudentStaffCounts.Student FTE.HESA supplied research student FTE <i>plus</i> StudentStaffCounts.Student FTE.FE student FTE	F_STFTETE + F_STFTERE + F_STFTEFE	N
Total property costs	042C01S04R09	Total property costs per metre ² ; of net internal area	A/(B-C)	0	£	Finance.PropertyCosts.Total property costs	F_FTPCO	SpaceMeasurement.NetInternalArea.Total NIA <i>minus</i> SpaceMeasurement.NetInternalArea.Total NIA commercial space	F_XUP_SMNIAT - F_XUP_SMNIACT	N

Total property costs	042C01S04R10	Total property costs per metre#178; of gross internal area	A/(B-C)	2	£	Finance.PropertyCosts.Total property costs	F_FTPCO	SpaceMeasurement.GrossInternalArea.Total GIA <i>minus</i> SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIAI - F_SMGIACT	N
----------------------	--------------	--	---------	---	---	--	---------	---	----------------------	---

Component revenue costs

Component revenue costs	042C01S05R02	Operating costs per student FTE	$(A+B+C+D+E+F)/(G+H+I)$	0	£	Finance.InsurancePremiumsandContributions.Total insurance premiums and contributions <i>plus</i> Finance.NetServiceChargeandMiscellaneousPFIandPPPCosts.Total net service charge and miscellaneous PFI and PPP costs <i>plus</i> Finance.EnergyCosts.Total energy costs <i>plus</i> Finance.WaterandSewerageCosts.Total water and sewerage costs <i>plus</i> Finance.RepairsandMaintenanceCosts.Total repairs and maintenance costs <i>plus</i> Finance.CleaningCosts.Total cleaning costs	F_FIPCOT + F_FNSCTM + F_FECTOT + F_FWSCT + F_FRMCT + F_FCCT	StudentStaffCounts.StudentFTE.HESA supplied teaching student FTE <i>plus</i> StudentStaffCounts.StudentFTE.HESA supplied research student FTE <i>plus</i> StudentStaffCounts.StudentFTE.FE student FTE	F_STFTETE + F_STFTERE + F_STFTEFE	N
-------------------------	--------------	---------------------------------	-------------------------	---	---	--	---	--	-----------------------------------	---

Component revenue costs	042C01S05R10	Operating costs per metre#178; of net internal area	$(A+B+C+D+E+F)/(G+H)$	0	£	Finance.InsurancePremiumsandContributions.Total insurance premiums and contributions <i>plus</i> Finance.NetServiceChargeandMiscellaneousPFIandPPPCosts.Total net service charge and miscellaneous PFI and PPP costs <i>plus</i> Finance.EnergyCosts.Total energy costs <i>plus</i> Finance.WaterandSewerageCosts.Total water and sewerage costs <i>plus</i> Finance.RepairsandMaintenanceCosts.Total repairs and maintenance costs <i>plus</i> Finance.CleaningCosts.Total cleaning costs	F_FIPCOT + F_FNSCTM + F_FECTOT + F_FWSCT + F_FRMCT + F_FCCT	SpaceMeasurement.NetInternalArea.Total NIA <i>minus</i> SpaceMeasurement.NetInternalArea.Total NIA commercial space	F_XUP_SMNIAT - F_XUP_SMNIACT	N
-------------------------	--------------	---	-----------------------	---	---	--	---	---	------------------------------	---

Component revenue costs	042C01S05R11	Cleaning costs per metre#178; of net internal area	A/(B-C)	2	£	Finance.CleaningCosts.Total cleaning costs	F_FCCT	SpaceMeasurement.NetInternalArea.Total NIA <i>minus</i> SpaceMeasurement.NetInternalArea.Total NIA commercial space	F_XUP_SMNIAT - F_XUP_SMNIACT	N
-------------------------	--------------	--	---------	---	---	--	--------	---	------------------------------	---

Component revenue costs	042C01S05R12	Total cleaning costs per metre#178; of gross internal area	A/(B-C)	2	£	Finance.CleaningCosts.Total cleaning costs	F_FCCT	SpaceMeasurement.GrossInternalArea.Total GIA <i>minus</i> SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIAI - F_SMGIACT	N
-------------------------	--------------	--	---------	---	---	--	--------	---	----------------------	---

Analysis of maintenance

Analysis of maintenance	042C01S06R08	Grounds maintenance costs per grounds area	A/B	0	£	Finance.RepairsandMaintenanceCosts.Total repairs and maintenance costs grounds	F_FRMCGT	SpaceMeasurement.GroundsArea.Total grounds area	F_SMGAT	N
Analysis of maintenance	042C01S06R09	Playing fields maintenance costs per playing fields area	A/B	0	£	Finance.RepairsandMaintenanceCosts.Total repairs and maintenance costs playing fields	F_FRMCPFT	SpaceMeasurement.PlyingFieldsArea.Total playing fields area	F_SMPFAT	N
Analysis of maintenance	042C01S06R15	Maintenance costs per metre#178; of gross internal area commercial space	A/B	2	£	Finance.RepairsandMaintenanceCosts.Total repairs and maintenance costs	F_FRMCT	SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIACT	N

Analysis of maintenance	042C01S06R16	% of HEPs' income spent on repairs and maintenance	$(100 \times A)/B$	1	%	Finance.RepairsandMaintenance Costs.Total repairs and maintenance costs	F_FRMCT	Finance.Income.HESA supplied total income	F_FIIT	N
Analysis of maintenance	042C01S06R17	Ratio of maintenance costs and capital expenditure to insurance replacement value	$(A+B)/C$	1		Finance.CapitalExpenditureBuildings.HESA supplied total capital expenditure buildings <i>plus</i> Finance.RepairsandMaintenance Costs.Total repairs and maintenance costs	F_FCEXT + F_FRMCT	BuildingsandFunctionality.InsuranceReplacementValue.Total insurance replacement value	F_BTIRV	N
Energy costs, consumption and emissions										
Energy costs, consumption and emissions	042C01S07R02	Energy costs per 100 kWh consumption	$(100 \times A)/B$	2	£	Finance.EnergyCosts.Total energy costs	F_FECTOT	EnvironmentEnergyEmission sandWaste.EnergyConsumption.Total energy consumption	F_EECTOT	N
Energy costs, consumption and emissions	042C01S07R03	Electricity costs per 100 kWh consumption	$(100 \times A)/(B+C+D)$	2	£	Finance.EnergyCosts.Total energy costs electricity	F_FECELET	EnvironmentEnergyEmission sandWaste.EnergyConsumption.Energy consumption grid electricity <i>plus</i> EnvironmentEnergyEmission sandWaste.EnergyConsumption.Energy consumption electricity consumed from onsite CHP <i>plus</i> EnvironmentEnergyEmission sandWaste.EnergyConsumption.Energy consumption onsite photovoltaic	F_EEGELEC + F_EECELCHP + F_EECONPHO	N

Energy costs, consumption and emissions	042C01S07R04	Gas costs per 100 kWh consumption	$(100 \times A)/(B+C+D+E)$	2	£	Finance.EnergyCosts.Total energy costs gas	F_FECGAST	EnvironmentEnergyEmission sandWaste.EnergyConsumption.Energy consumption compressed natural gas <i>plus</i> EnvironmentEnergyEmission sandWaste.EnergyConsumption.Energy consumption liquefied natural gas <i>plus</i> EnvironmentEnergyEmission sandWaste.EnergyConsumption.Energy consumption natural gas excluding that used as input for a CHP unit <i>plus</i> EnvironmentEnergyEmission sandWaste.EnergyConsumption.Energy consumption natural gas used as input for a CHP unit	F_EECCNGAS + F_EECLNGAS + F_EECCNGSEX + F_EECCNGCHP	N
Energy costs, consumption and emissions	042C01S07R05	Energy costs gas as percentage of total energy costs	$(100 \times A)/B$	1	%	Finance.EnergyCosts.Total energy costs gas	F_FECGAST	Finance.EnergyCosts.Total energy costs	F_FECTOT	N
Energy costs, consumption and emissions	042C01S07R06	Energy costs electricity as percentage of total energy costs	$(100 \times A)/B$	1	%	Finance.EnergyCosts.Total energy costs electricity	F_FECELET	Finance.EnergyCosts.Total energy costs	F_FECTOT	N
Energy costs, consumption and emissions	042C01S07R08	Energy consumption kWh per student FTE	$A/(B+C+D)$	0		EnvironmentEnergyEmissionsandWaste.EnergyConsumption.Total energy consumption	F_EECTOT	StudentStaffCounts.Student FTE.HESA supplied teaching student FTE <i>plus</i> StudentStaffCounts.Student FTE.HESA supplied research student FTE <i>plus</i> StudentStaffCounts.Student FTE.FE student FTE	F_STFTETE + F_STFTERE + F_STFTEFE	N

Energy costs, consumption and emissions	042C01S07R11	Notional energy emissions (kg CO ₂ per student FTE)	A/(B+C+D)	0		EnvironmentEnergyEmissionsand Waste.Scope1and2CarbonEmissions.Total scope 1 and 2 carbon emissions	F_E12CET	StudentStaffCounts.Student FTE.HESA supplied teaching student FTE plus StudentStaffCounts.Student FTE.HESA supplied research student FTE plus StudentStaffCounts.Student FTE.FE student FTE	F_STFTETE + F_STFTERE + F_STFTEFE	N
Energy costs, consumption and emissions	042C01S07R13	Energy costs per metre ² ; of gross internal area commercial space	A/B	2	£	Finance.EnergyCosts.Total energy costs	F_FECTOT	SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIAC	N
Energy costs, consumption and emissions	042C01S07R14	Notional energy emissions (kg CO ₂ per metre ² ; of gross internal area commercial space	A/B	0		EnvironmentEnergyEmissionsand Waste.Scope1and2CarbonEmissions.Total scope 1 and 2 carbon emissions	F_E12CET	SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIAC	N
Energy costs, consumption and emissions	042C01S07R15	Energy consumption kWh per metre ² ; of gross internal area commercial space	A/B	0		EnvironmentEnergyEmissionsand Waste.EnergyConsumption.Total energy consumption	F_EECTOT	SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIAC	N
Energy costs, consumption and emissions	042C01S07R17	Energy consumption kWh per metre ² ; of gross internal area	A/(B-C)	0		EnvironmentEnergyEmissionsand Waste.EnergyConsumption.Total energy consumption	F_EECTOT	SpaceMeasurement.GrossInternalArea.Total GIA minus SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIAT - F_SMGIAC	N
Energy costs, consumption and emissions	042C01S07R18	Notional energy emissions (kg CO ₂ per metre ² ; of gross internal area	A/(B-C)	0		EnvironmentEnergyEmissionsand Waste.Scope1and2CarbonEmissions.Total scope 1 and 2 carbon emissions	F_E12CET	SpaceMeasurement.GrossInternalArea.Total GIA minus SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIAT - F_SMGIAC	N
Water costs and consumption										
Water costs and consumption	042C01S08R06	Water and sewerage costs per metre ² ; of gross internal area commercial space	A/B	2	£	Finance.WaterandSewerageCosts.Total water and sewerage costs	F_FWSCT	SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIAC	N
Water costs and consumption	042C01S08R07	Water consumption (metre ³); per metre ² ; of gross internal area commercial space	A/B	1		EnvironmentEnergyEmissionsand Waste.WaterConsumption.Total water consumption	F_EWCONTOT	SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIAC	N
Water costs and consumption	042C01S08R09	Water and sewerage costs per metre ² ; of gross internal area	A/(B-C)	2	£	Finance.WaterandSewerageCosts.Total water and sewerage costs	F_FWSCT	SpaceMeasurement.GrossInternalArea.Total GIA minus SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIAT - F_SMGIAC	N
Water costs and consumption	042C01S08R10	Water consumption (metre ³); per metre ² ; of gross internal area	A/(B-C)	1		EnvironmentEnergyEmissionsand Waste.WaterConsumption.Total water consumption	F_EWCONTOT	SpaceMeasurement.GrossInternalArea.Total GIA minus SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIAT - F_SMGIAC	N
Waste										
Waste	042C01S09R01	Waste mass (tonnes) per student FTE	A/(B+C+D)	3		EnvironmentEnergyEmissionsand Waste.WasteMass.Total waste mass	F_EWMT	StudentStaffCounts.Student FTE.HESA supplied teaching student FTE plus StudentStaffCounts.Student FTE.HESA supplied research student FTE plus StudentStaffCounts.Student FTE.FE student FTE	F_STFTETE + F_STFTERE + F_STFTEFE	N

Waste	042C01S09R03	Recycled waste proportion	(100*A)/B	1	%	EnvironmentEnergyEmissionsandWaste.WasteMass.Total waste mass recycled	F_EWMRECT	EnvironmentEnergyEmission sandWaste.WasteMass.Total waste mass	F_EWMT	N
Waste	042C01S09R05	Waste mass (tonnes) per metre ² ; gross internal area commercial space	A/B	3		EnvironmentEnergyEmissionsandWaste.WasteMass.Total waste mass	F_EWMT	SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIAC	N
Waste	042C01S09R07	Waste mass (tonnes) per metre ² ; gross internal area	A/(B-C)	3		EnvironmentEnergyEmissionsandWaste.WasteMass.Total waste mass	F_EWMT	SpaceMeasurement.GrossInternalArea.Total GIA <i>minus</i> SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIAT - F_SMGIAC	N

Property management costs

Property Management costs	042C01S10R02	External Property Management costs as percentage of Total Property Management costs	(100*A)/(B+C)	1	%	Finance.ExternallyProvidedPropertyManagementCosts.Total externally-provided property management costs	F_FEPPMCT	Finance.InternallyIncurredPropertyManagementCosts.Total Internally-incurred property management costs <i>plus</i> Finance.ExternallyProvidedPropertyManagementCosts.Total Externally-provided property management costs	F_FIIPMCT + F_FEPPMCT	N
---------------------------	--------------	---	---------------	---	---	---	-----------	---	-----------------------	---

Total non-residential

Estate structure

Estate structure	042C13S01R03	Ratio of net internal area to gross internal area	A/B	3		SpaceMeasurement.NetInternalArea.Non-residential NIA total	F_XUP_SMNIA NRT	SpaceMeasurement.GrossInternalArea.Non-residential GIA	F_SMGIANR	N
Estate structure	042C13S01R07	Tenure as percentage of gross internal area freehold/long-leasehold	A+B	1	%	BuildingsandFunctionality.Tenure .Non-residential tenure freehold <i>plus</i> BuildingsandFunctionality.Tenure .Non-residential tenure long leasehold	F_BNRTF + F_BNRTLL	 	 	N
Estate structure	042C13S01R08	Construction date as percentage of gross internal area Pre-1940	A+B+C	1	%	BuildingsandFunctionality.ConstructionDate.Non-residential construction date 1915-1939 <i>plus</i> BuildingsandFunctionality.ConstructionDate.Non-residential construction date 1840-1914 <i>plus</i> BuildingsandFunctionality.ConstructionDate.Non-residential construction date before 1840	F_BNRD1915 + F_BNRD1840 + F_BNRB1840	 	 	N
Estate structure	042C13S01R09	Construction date as percentage of gross internal area built since 1980	A+B	1	%	BuildingsandFunctionality.ConstructionDate.Non-residential construction date 1980-1999 <i>plus</i> BuildingsandFunctionality.ConstructionDate.Non-residential construction date since 2000	F_BNRD1980 + F_BNRD2000	 	 	N
Estate structure	042C13S01R10	Proportion of teaching area centrally timetabled	A	1	%	BuildingsandFunctionality.Percen tageofNetInternalAreaUsedForTimeTabledTeaching.Teaching not offices percentage of all NIA used for time-tabled teaching	F_BNIATE	 	 	N

Estate structure	042C13S01R11	Listed building coverage as percentage of gross internal area	(100*A)/B	1	%	BuildingsandFunctionality.ListedBuildingCoverage.Non-residential listed building coverage	F_BNRLBC	SpaceMeasurement.GrossInternalArea.Non-residential GIA	F_SMGIANR	N
------------------	--------------	---	-----------	---	---	---	----------	--	-----------	---

Space allocation

Space allocation	042C13S02R01	Teaching net internal area as percentage of total net internal area	(100*A)/B	1	%	SpaceMeasurement.NetInternalArea.Teaching NIA total	F_XUP_SMNIA TET	SpaceMeasurement.NetInternalArea.Non-residential NIA total	F_XUP_SMNIA NR T	N
------------------	--------------	---	-----------	---	---	---	-----------------	--	------------------	---

Space allocation	042C13S02R02	Research net internal area as percentage of total net internal area	$(100 \times A)/B$	1	%	SpaceMeasurement.NetInternalArea.Research NIA total	F_XUP_SMNIA RET	SpaceMeasurement.NetInternalArea.Non-residential NIA total	F_XUP_SMNIANRT	N
Space allocation	042C13S02R03	Support net internal area as percentage of total net internal area	$(100 \times A)/B$	1	%	SpaceMeasurement.NetInternalArea.Support NIA total	F_XUP_SMNIAST	SpaceMeasurement.NetInternalArea.Non-residential NIA total	F_XUP_SMNIANRT	N
Space allocation	042C13S02R04	Other net internal area as percentage of total net internal area	$(100 \times A)/B$	1	%	SpaceMeasurement.NetInternalArea.Non-residential NIA other	F_XUP_SMNIANRO	SpaceMeasurement.NetInternalArea.Non-residential NIA total	F_XUP_SMNIANRT	N
Space allocation	042C13S02R05	Vacant net internal area as percentage of total net internal area	$(100 \times A)/B$	1	%	SpaceMeasurement.NetInternalArea.Non-residential NIA vacant	F_XUP_SMNIANRV	SpaceMeasurement.NetInternalArea.Non-residential NIA total	F_XUP_SMNIANRT	N
Space allocation	042C13S02R06	Office net internal area as percentage of total net internal area	$(100 \times (A+B+C))/D$	1	%	SpaceMeasurement.NetInternalArea.Teaching offices NIA <i>plus</i> SpaceMeasurement.NetInternalArea.Research offices NIA <i>plus</i> SpaceMeasurement.NetInternalArea.Support offices NIA	F_XUP_SMNIA TEO + F_XUP_SMNIA REO + F_XUP_SMNIA SO	SpaceMeasurement.NetInternalArea.Non-residential NIA total	F_XUP_SMNIANRT	N
Space allocation	042C13S02R08	Specialist academic area as percentage of all academic net internal area	$(100 \times A)/(B+C)$	1	%	SpaceMeasurement.SpecialistAcademicArea.Total specialist academic area	F_XUP_SMSAA	SpaceMeasurement.NetInternalArea.Research not offices NIA <i>plus</i> SpaceMeasurement.NetInternalArea.Teaching not offices NIA	F_XUP_SMNIARE + F_XUP_SMNIATE	N
Space allocation	042C13S02R09	Specialist teaching net internal area as percentage of core teaching space	$(100 \times A)/B$	1	%	SpaceMeasurement.SpecialistAcademicArea.Teaching not offices specialist academic area	F_XUP_SMTESAA	SpaceMeasurement.NetInternalArea.Teaching not offices NIA	F_XUP_SMNIATE	N
Space allocation	042C13S02R10	Specialist research net internal area as percentage of core research space	$(100 \times A)/B$	1	%	SpaceMeasurement.SpecialistAcademicArea.Research not offices specialist academic area	F_XUP_SMRESAA	SpaceMeasurement.NetInternalArea.Research not offices NIA	F_XUP_SMNIARE	N
Space allocation	042C13S02R11	Learning centre net internal area as percentage of support net internal area	$(100 \times A)/B$	1	%	SpaceMeasurement.NetInternalArea.Support NIA learning centre space	F_XUP_SMNIALC	SpaceMeasurement.NetInternalArea.Support NIA total	F_XUP_SMNIAST	N

Condition and suitability

Condition and suitability	042C13S03R02	Building condition as percentage of gross internal area Condition D	A	1	%	BuildingsandFunctionality.ConditionAssessmentDefinition.Nonresidential building condition assessment condition D	F_BNRADCD	 	 	N
Condition and suitability	042C13S03R04	Cost to upgrade condition C and D to B as percentage of insurance replacement value	$(100 \times (A+B))/C$	1	%	BuildingsandFunctionality.ConditionAssessmentUpgradeCost.Nonresidential building condition assessment cost to upgrade condition D to B <i>plus</i> BuildingsandFunctionality.ConditionAssessmentUpgradeCost.Nonresidential building condition assessment cost to upgrade condition C to B	F_BNRAUDB + F_BNRAUCB	BuildingsandFunctionality.InsuranceReplacementValue.Non-residential insurance replacement value	F_BNRIRV	N
Condition and suitability	042C13S03R06	Non residential backlog affordability score	A/(B+C)	1		Finance.Income.HESA supplied nonresidential income total	F_FINRIT	BuildingsandFunctionality.ConditionAssessmentUpgradeCost.Non-residential building condition assessment cost to upgrade condition C to B <i>plus</i> BuildingsandFunctionality.ConditionAssessmentUpgradeCost.Non-residential building condition assessment cost to upgrade condition D to B	F_BNRAUCB + F_BNRAUDB	N

Capital expenditure and value

Capital expenditure and value	042C13S04R01	Insurance replacement value per metre ² of gross internal area	A/B	2	£	Buildings and Functionality. Insurance Replacement Value. Non-residential insurance replacement value	F_BNRIRV	Space Measurement. Gross Internal Area. Non-residential GIA	F_SMGIANR	N
Linking property to business										
Linking property to business	042C13S05R02	Ratio of total property costs to HEP expenditure	A/B	3		Finance. Property Costs. Non-residential property costs	F_FNRPCO	Finance. Expenditure. HESA supplied non-residential expenditure	F_FENREXP	N

Linking property to business	042C13S05R03	HEP income per student FTE	A/(B+C+D)	2	£	Finance. Income. HESA supplied non-residential income total	F_FINRIT	Student Staff Counts. Student FTE. HESA supplied teaching student FTE <i>plus</i> Student Staff Counts. Student FTE. HESA supplied research student FTE <i>plus</i> Student Staff Counts. Student FTE. FE student FTE	F_STFTETE + F_STFTERE + F_STFTEFE	N
Linking property to business	042C13S05R04	HEP income per metre ² ; of net internal area	A/B	2	£	Finance. Income. HESA supplied non-residential income total	F_FINRIT	Space Measurement. Net Internal Area. Non-residential NIA total	F_XUP_SMNIANR T	N
Linking property to business	042C13S05R05	Teaching HEP income per metre ² ; of net internal area	A/B	2	£	Finance. Income. HESA supplied teaching income	F_FITEI	Space Measurement. Net Internal Area. Teaching NIA total	F_XUP_SMNIATE T	N
Linking property to business	042C13S05R06	Research HEP income per metre ² ; of net internal area	A/B	2	£	Finance. Income. HESA supplied research income	F_FIREI	Space Measurement. Net Internal Area. Research NIA total	F_XUP_SMNIARE T	N
Linking property to business	042C13S05R07	Other HEP income per metre ² ; of net internal area	A/B	2	£	Finance. Income. HESA supplied other non-residential income	F_FINRIO	Space Measurement. Net Internal Area. Non-residential NIA other	F_XUP_SMNIANR O	N
Linking property to business	042C13S05R13	Non-residential income per metre ² ; of gross internal area	A/B	2	£	Finance. Income. HESA supplied non-residential income total	F_FINRIT	Space Measurement. Gross Internal Area. Non-residential GIA	F_SMGIANR	N
Linking property to business	042C13S05R14	Teaching income per metre ² ; of gross internal area	A/B	2	£	Finance. Income. HESA supplied teaching income	F_FITEI	Space Measurement. Gross Internal Area. Non-residential GIA	F_SMGIANR	N
Linking property to business	042C13S05R15	Research income per metre ² ; of gross internal area	A/B	2	£	Finance. Income. HESA supplied research income	F_FIREI	Space Measurement. Gross Internal Area. Non-residential GIA	F_SMGIANR	N
Linking property to business	042C13S05R16	Other non-residential income per metre ² ; of gross internal area	A/B	2	£	Finance. Income. HESA supplied other non-residential income	F_FINRIO	Space Measurement. Gross Internal Area. Non-residential GIA	F_SMGIANR	N
Linking property to business	042C13S05R18	Capital expenditure as % of HEP income	(100*A)/B	1	%	Finance. Capital Expenditure Buildings. HESA supplied non-residential capital expenditure buildings	F_FNRCEX	Finance. Income. HESA supplied non-residential income total	F_FINRIT	N

Utilisation ratios										
Utilisation ratios	042C13S06R02	Academic space per student FTE	(A+B)/(C+D+E)	1		Space Measurement. Net Internal Area. Teaching NIA total <i>plus</i> Space Measurement. Net Internal Area. Research NIA total	F_XUP_SMNIATE T + F_XUP_SMNIARE T	Student Staff Counts. Student FTE. HESA supplied teaching student FTE <i>plus</i> Student Staff Counts. Student FTE. HESA supplied research student FTE <i>plus</i> Student Staff Counts. Student FTE. FE student FTE	F_STFTETE + F_STFTERE + F_STFTEFE	N
Utilisation ratios	042C13S06R03	Core teaching space per taught student FTE	A/B	1		Space Measurement. Net Internal Area. Teaching not offices NIA	F_XUP_SMNIATE	Student Staff Counts. Student FTE. HESA supplied teaching student FTE	F_STFTETE	N
Utilisation ratios	042C13S06R04	Academic office net internal area per academic staff FTE	(A+B)/(C)	1		Space Measurement. Net Internal Area. Teaching offices NIA <i>plus</i> Space Measurement. Net Internal Area. Research offices NIA	F_XUP_SMNIATEO + F_XUP_SMNIAREO	Student Staff Counts. Staff FTE. Total teaching and research staff FTE	F_SFTERET	N

Utilisation ratios	042C13S06R05	Support office net internal area per support office staff FTE	A/B	1		SpaceMeasurement.NetInternalArea.Support offices NIA	F_XUP_SMNIA SO	StudentStaffCounts.StaffFTE. Support offices staff FTE	F_SSFTEOF	N
Utilisation ratios	042C13S06R06	Frequency rate teaching space	A	1	%	SpaceMeasurement.FrequencyRate.Teaching not offices frequency rate percentage	F_SMTEFRP	 	 	N
Utilisation ratios	042C13S06R07	Occupancy rate teaching space	A	1	%	SpaceMeasurement.OccupancyRate.Teaching not offices occupancy rate percentage	F_SMORTEP	 	 	N
Utilisation ratios	042C13S06R08	Utilisation rate teaching space	(A*B)/10000	3		Teaching not offices frequency rate percentage <i>multiplied by</i> Teaching not offices occupancy rate percentage	F_SMTEFRP * F_SMORTEP		10000	N
Utilisation ratios	042C13S06R09	Frequency rate coverage as percentage of core teaching net internal area	(100*A)/B	1	%	SpaceMeasurement.SpaceUtilisationSurveyAreaCovered.Teaching area covered by the Space Utilisation Survey	F_SMTESUS	SpaceMeasurement.NetInternalArea.Teaching not offices NIA	F_XUP_SMNIAATE	N

Utilisation ratios	042C13S06R11	Catering net internal area per student FTE	A/(B+C+D)	1		SpaceMeasurement.NetInternalArea.Support NIA associated with catering	F_XUP_SMNIA CS	StudentStaffCounts.Student FTE.HESA supplied teaching student FTE <i>plus</i> StudentStaffCounts.Student FTE.HESA supplied research student FTE <i>plus</i> StudentStaffCounts.Student FTE.FE student FTE	F_STFTETE + F_STFTERE + F_STFTEFE	N
Utilisation ratios	042C13S06R15	Learning centre net internal area per student FTE	A/(B+C+D)	1		SpaceMeasurement.NetInternalArea.Support NIA learning centre space	F_XUP_SMNIA LC	StudentStaffCounts.Student FTE.HESA supplied teaching student FTE <i>plus</i> StudentStaffCounts.Student FTE.HESA supplied research student FTE <i>plus</i> StudentStaffCounts.Student FTE.FE student FTE	F_STFTETE + F_STFTERE + F_STFTEFE	N

Total property costs

Total property costs	042C13S07R10	Non-residential property costs per metre ² ; of gross internal area	A/B	2	£	Finance.PropertyCosts.Nonresidential property costs	F_FNRPCO	SpaceMeasurement.GrossInternalArea.Non-residential GIA	F_SMGIANR	N
----------------------	--------------	--	-----	---	---	---	----------	--	-----------	---

Component revenue costs

Component revenue costs	042C13S08R01	Non-residential operating costs per metre ² ; of net internal area	(A+B+C+D+E+F)/G	2	£	Finance.InsurancePremiumsandContributions.Non-residential insurance premiums and contributions <i>plus</i> Finance.NetServiceChargeandMiscellaneousPFIandPPPCosts.Nonresidential net service charge and miscellaneous PFI and PPP costs <i>plus</i> Finance.EnergyCosts.Nonresidential energy costs total <i>plus</i> Finance.WaterandSewerageCosts.Nonresidential water and sewerage costs total <i>plus</i> Finance.RepairsandMaintenance Costs.Non-residential repairs and maintenance costs total <i>plus</i> Finance.CleaningCosts.Nonresidential cleaning costs total	F_FNRIPCO + F_FNRNSCM + F_FNRECTOT + F_FNRWSCT + F_FNRRMCT + F_FNRCCT	SpaceMeasurement.NetInternalArea.Non-residential NIA total	F_XUP_SMNIANRT	N
-------------------------	--------------	---	-----------------	---	---	---	--	--	----------------	---

Component revenue costs	042C13S08R02	Non residential operating costs per student FTE	$(A+B+C+D+E+F)/(G+H+I)$	2	£	Finance.InsurancePremiumsandContributions.Non-residential insurance premiums and contributions plus Finance.NetServiceChargeandMiscellaneousPFIandPPPCosts.Non-residential net service charge and miscellaneous PFI and PPP costs plus Finance.EnergyCosts.Non-residential energy costs total plus Finance.WaterandSewerageCosts.Non-residential water and sewerage costs total plus Finance.RepairsandMaintenance Costs.Non-residential repairs and maintenance costs total plus Finance.CleaningCosts.Non-residential cleaning costs total	F_FNRIPCO + F_FNRNSCM + F_FNRRECTOT + F_FNRWSCOT + F_FNRRMCT + F_FNRCCT	StudentStaffCounts.Student FTE.HESA supplied teaching student FTE plus StudentStaffCounts.Student FTE.HESA supplied research student FTE plus StudentStaffCounts.Student FTE.FE student FTE	F_STFTETE + F_STFTERE + F_STFTEFE	N
Component revenue costs	042C13S08R10	Cleaning costs per metre ² ; of net internal area	A/B	2	£	Finance.CleaningCosts.Non-residential cleaning costs total	F_FNRCCT	SpaceMeasurement.NetInternalArea.Non-residential NIA total	F_XUP_SMNIANRT	N
Component revenue costs	042C13S08R11	Internal cleaning costs per metre ² ; of area cleaned	A/B	2	£	Finance.CleaningCosts.Non-residential cleaning costs internal	F_FNRCCIN	SpaceMeasurement.GrossInternalArea.Non-residential GIA cleaned	F_SMNRGIAC	N
Component revenue costs	042C13S08R14	Rates paid as percentage of total property costs	$(100*A)/B$	1	%	Finance.RatesPaid.Non-residential rates paid	F_FNRPP	Finance.PropertyCosts.Non-residential property costs	F_FNRPCO	N
Component revenue costs	042C13S08R15	Net service charges as percentage of total property costs	$(100*A)/B$	1	%	Finance.NetServiceChargeandMiscellaneousPFIandPPPCosts.Non-residential net service charge and miscellaneous PFI and PPP costs	F_FNRNSCM	Finance.PropertyCosts.Non-residential property costs	F_FNRPCO	N

Component revenue costs	042C13S08R16	Maintenance costs as percentage of total property costs	$(100*A)/B$	1	%	Finance.RepairsandMaintenance Costs.Non-residential repairs and maintenance costs total	F_FNRRMCT	Finance.PropertyCosts.Non-residential property costs	F_FNRPCO	N
Component revenue costs	042C13S08R17	Non-residential cleaning costs per metre ² ; of gross internal area	A/B	2	£	Finance.CleaningCosts.Non-residential cleaning costs total	F_FNRCCT	SpaceMeasurement.GrossInternalArea.Non-residential GIA	F_SMGIANR	N

Analysis of maintenance

Analysis of maintenance	042C13S09R01	Maintenance costs per metre ² ; of gross internal area	A/B	2	£	Finance.RepairsandMaintenance Costs.Non-residential repairs and maintenance costs total	F_FNRRMCT	SpaceMeasurement.GrossInternalArea.Non-residential GIA	F_SMGIANR	N
Analysis of maintenance	042C13S09R12	% of HEP's income spent on repairs and maintenance	$(100*A)/B$	1	%	Finance.RepairsandMaintenance Costs.Non-residential repairs and maintenance costs total	F_FNRRMCT	Finance.Income.HESA supplied nonresidential income total	F_FINRIT	N
Analysis of maintenance	042C13S09R14	Ratio of maintenance costs and capital expenditure to insurance replacement value	$(A+B)/C$	1		Finance.CapitalExpenditureBuildings.HESA supplied nonresidential capital expenditure buildings plus Finance.RepairsandMaintenance Costs.Non-residential repairs and maintenance costs total	F_FNRCEX + F_FNRRMCT	BuildingsandFunctionality.InsuranceReplacementValue.Non-residential insurance replacement value	F_BNRIRV	N

Energy costs, consumption and emissions

Energy costs, consumption and emissions	042C13S10R01	Non-residential energy costs per metre ² ; of gross internal area	A/B	2	£	Finance.EnergyCosts.Non-residential energy costs total	F_FNRECTOT	SpaceMeasurement.GrossInternalArea.Non-residential GIA	F_SMGIANR	N
Energy costs, consumption and emissions	042C13S10R02	Average Energy costs per 100 kWh consumption	$(100*A)/B$	2	£	Finance.EnergyCosts.Non-residential energy costs total	F_FNRECTOT	EnvironmentEnergyEmissionandWaste.EnergyConsumption.Non-residential energy consumption total	F_ENRECT	N
Energy costs, consumption and emissions	042C13S10R04	Energy costs electricity as percentage of total energy costs	$(100*A)/B$	1	%	Finance.EnergyCosts.Non-residential energy costs electricity	F_FNRECELE	Finance.EnergyCosts.Non-residential energy costs total	F_FNRECTOT	N

Energy costs, consumption and emissions	042C13S10R05	Energy costs (oil, coal, steam and hot water, other) as percentage of total energy costs	$(100 * (A+B+C+D)) / E$	1	%	Finance.EnergyCosts.Nonresidential energy costs oil <i>plus</i> Finance.EnergyCosts.Nonresidential energy costs coal (industrial) <i>plus</i> Finance.EnergyCosts.Nonresidential energy costs steam and hot water <i>plus</i> Finance.EnergyCosts.Nonresidential energy costs other	F_FNRECOIL + F_FNRECCOA + F_FNRECSHW + F_FNRECOH	Finance.EnergyCosts.Nonresidential energy costs total	F_FNRECTOT	N
Energy costs, consumption and emissions	042C13S10R06	Energy consumption kWh per metre ² ; of gross internal area	A/B	0		EnvironmentEnergyEmissionsand Waste.EnergyConsumption.Nonresidential energy consumption total	F_ENRECT	SpaceMeasurement.GrossInternalArea.Non-residential GIA	F_SMGIANR	N
Energy costs, consumption and emissions	042C13S10R08	Energy consumption kWh per student FTE	A/(B+C+D)	0		EnvironmentEnergyEmissionsand Waste.EnergyConsumption.Nonresidential energy consumption total	F_ENRECT	StudentStaffCounts.Student FTE.HESA supplied teaching student FTE <i>plus</i> StudentStaffCounts.Student FTE.HESA supplied research student FTE <i>plus</i> StudentStaffCounts.Student FTE.FE student FTE	F_STFTETE + F_STFTERE + F_STFTEFE	N
Energy costs, consumption and emissions	042C13S10R10	Notional energy emissions (kg CO ₂ per metre ² ; of gross internal area	A/B	0		EnvironmentEnergyEmissionsand Waste.Scope1and2CarbonEmissions.Nonresidential scope 1 and 2 carbon emissions total	F_E12CENRT	SpaceMeasurement.GrossInternalArea.Non-residential GIA	F_SMGIANR	N
Energy costs, consumption and emissions	042C13S10R11	Notional energy emissions (kg CO ₂ per student FTE	A/(B+C+D)	0		EnvironmentEnergyEmissionsand Waste.Scope1and2CarbonEmissions.Nonresidential scope 1 and 2 carbon emissions total	F_E12CENRT	StudentStaffCounts.Student FTE.HESA supplied teaching student FTE <i>plus</i> StudentStaffCounts.Student FTE.HESA supplied research student FTE <i>plus</i> StudentStaffCounts.Student FTE.FE student FTE	F_STFTETE + F_STFTERE + F_STFTEFE	N

Water costs and consumption

Water costs and consumption	042C13S11R01	Water and sewerage costs per metre ² ; of gross internal area	A/B	2	£	Finance.WaterandSewerageCosts.Nonresidential water and sewerage costs total	F_FNRWSCT	SpaceMeasurement.GrossInternalArea.Non-residential GIA	F_SMGIANR	N
Water costs and consumption	042C13S11R02	Water and sewerage costs per metre ² ; of consumption	A/B	2	£	Finance.WaterandSewerageCosts.Nonresidential water and sewerage costs total	F_FNRWSCT	EnvironmentEnergyEmission sandWaste.WaterConsumption on.Non-residential water consumption	F_ENRWCON	N

Water costs and consumption	042C13S11R03	Water consumption metre ³ ; per metre ² ; of gross internal area	A/B	1		EnvironmentEnergyEmissionsand Waste.WaterConsumption.Nonresidential water consumption	F_ENRWCON	SpaceMeasurement.GrossInternalArea.Non-residential GIA	F_SMGIANR	N
Water costs and consumption	042C13S11R05	Water consumption metre ³ ; per student FTE	A/(B+C+D)	1		EnvironmentEnergyEmissionsand Waste.WaterConsumption.Nonresidential water consumption	F_ENRWCON	StudentStaffCounts.Student FTE.HESA supplied teaching student FTE <i>plus</i> StudentStaffCounts.Student FTE.HESA supplied research student FTE <i>plus</i> StudentStaffCounts.Student FTE.FE student FTE	F_STFTETE + F_STFTERE + F_STFTEFE	N

Total residential Estate structure

Estate structure	042C14S01R04	Tenure as percentage of gross internal area, freehold/long-leasehold	A+B	1	%	BuildingsandFunctionality.Tenure.Residential tenure freehold <i>plus</i> BuildingsandFunctionality.Tenure.Residential tenure long leasehold	F_BRTF + F_BRLL	 	 	N
Estate structure	042C14S01R05	Construction date as percentage of gross internal area Pre-1940	A+B+C	1	%	BuildingsandFunctionality.ConstructionDate.Residential construction date 1915-1939 <i>plus</i> BuildingsandFunctionality.ConstructionDate.Residential construction date 1840-1914 <i>plus</i> BuildingsandFunctionality.ConstructionDate.Residential construction date before 1840	F_BRD1915 + F_BRD1840 + F_BRB1840	 	 	N
Estate structure	042C14S01R06	Construction date as percentage of gross internal area built since 1980	A+B	1	%	BuildingsandFunctionality.ConstructionDate.Residential construction date 1980-1999 <i>plus</i> BuildingsandFunctionality.ConstructionDate.Residential construction date since 2000	F_BRD1980 + F_BRD2000	 	 	N
Estate structure	042C14S01R07	Listed building coverage as percentage of gross internal area	(100*A)/B	1	%	BuildingsandFunctionality.ListedBuildingCoverage.Residential listed building coverage	F_BRLBC	SpaceMeasurement.GrossInternalArea.Residential GIA	F_SMGIAR	N
Condition and suitability										
Condition and suitability	042C14S02R01	Building condition as percentage of gross internal area Condition A and B	A+B	1	%	BuildingsandFunctionality.ConditionAssessmentDefinition.Residential building condition assessment condition A <i>plus</i> BuildingsandFunctionality.ConditionAssessmentDefinition.Residential building condition assessment condition B	F_BRADCA + F_BRADCB	 	 	N
Condition and suitability	042C14S02R02	Building condition as percentage of gross internal area Condition D	A	1	%	BuildingsandFunctionality.ConditionAssessmentDefinition.Residential building condition assessment condition D	F_BRADCD	 	 	N
Condition and suitability	042C14S02R05	Functional suitability as percentage of gross internal area Grade 1 and 2	A+B	1	%	BuildingsandFunctionality.FunctionalSuitability.Residential functional suitability grade 1 <i>plus</i> BuildingsandFunctionality.FunctionalSuitability.Residential functional suitability grade 2	F_BRFSG1 + F_BRFSG2	 	 	N
Condition and suitability	042C14S02R06	Residential backlog affordability score	(A+B)/(C+D)	1		Finance.Income.HESA supplied residences income <i>plus</i> Finance.Income.HESA supplied catering income	F_FIRESI + F_FICATI	BuildingsandFunctionality.ConditionAssessmentUpgradeCost.Residential building condition assessment cost to upgrade condition C to B <i>plus</i> BuildingsandFunctionality.ConditionAssessmentUpgradeCost.Residential building condition assessment cost to upgrade condition D to B	F_BRAUCB + F_BRAUDB	N
Linking property to business										
Linking property to business	042C14S04R02	Ratio of total property costs to HEP Expenditure	A/(B+C)	3		Finance.PropertyCosts.Residential property costs	F_FRPCO	Finance.Expenditure.HESA supplied residences expenditure <i>plus</i> Finance.Expenditure.HESA supplied catering expenditure	F_FEREEXP + F_FECATEXP	N

Linking property to business	042C14S04R03	Ratio of residential HEP income to HEP Expenditure	$(A+B)/(C+D)$	3		Finance.Income.HESA supplied residences income <i>plus</i> Finance.Income.HESA supplied catering income	F_FIRESI + F_FICATI	Finance.Expenditure.HESA supplied residences expenditure <i>plus</i> Finance.Expenditure.HESA supplied catering expenditure	F_FERESEXP + F_FECATEXP	N
Linking property to business	042C14S04R04	HEP income per metre ² ; of net internal area	$(A+B)/C$	2	£	Finance.Income.HESA supplied residences income <i>plus</i> Finance.Income.HESA supplied catering income	F_FIRESI + F_FICATI	SpaceMeasurement.NetInternalArea.Residential NIA	F_XUP_SMNIAR	N
Linking property to business	042C14S04R08	Residential and catering income per metre ² ; of gross internal area	$(A+B)/C$	2	£	Finance.Income.HESA supplied residences income <i>plus</i> Finance.Income.HESA supplied catering income	F_FIRESI + F_FICATI	SpaceMeasurement.GrossInternalArea.Residential GIA	F_SMGJAR	N
Linking property to business	042C14S04R09	HEP expenditure per bedspace	$(A+B)/C$	2	£	Finance.Expenditure.HESA supplied residences expenditure <i>plus</i> Finance.Expenditure.HESA supplied catering expenditure	F_FERESEXP + F_FECATEXP	SpaceMeasurement.NumberofBedSpaces.Residential number of bed spaces	F_SMRNBS	N
Linking property to business	042C14S04R10	Capital expenditure as % of HEP Income	$(100*(A+B))/(C+D)$	1	%	Finance.CapitalExpenditureBuildings.HESA supplied residences capital expenditure buildings <i>plus</i> Finance.CapitalExpenditureBuildings.HESA supplied catering capital expenditure buildings	F_FRESECEX + F_FCATEX	Finance.Income.HESA supplied residences income <i>plus</i> Finance.Income.HESA supplied catering income	F_FIRESI + F_FICATI	N
Utilisation ratios										
Utilisation ratios	042C14S05R02	Residential net internal area per bedspace	A/B	1		SpaceMeasurement.NetInternalArea.Residential NIA	F_XUP_SMNIAR	SpaceMeasurement.NumberofBedSpaces.Residential number of bed spaces	F_SMRNBS	N
Utilisation ratios	042C14S05R03	Average provision of bedspaces per student FTE	$A/(B+C+D)$	2		SpaceMeasurement.NumberofBedSpaces.Residential number of bed spaces	F_SMRNBS	StudentStaffCounts.Student FTE.HESA supplied teaching student FTE <i>plus</i> StudentStaffCounts.Student FTE.HESA supplied research student FTE <i>plus</i> StudentStaffCounts.Student FTE.FE student FTE	F_STFTETE + F_STFTERE + F_STFTEFE	N
Utilisation ratios	042C14S05R04	Occupancy rate residential	A	1	%	SpaceMeasurement.OccupancyRate.Residential occupancy rate percentage	F_SMORRP	 	 	N
Component revenue costs										
Component revenue costs	042C14S06R07	Cleaning costs per metre ² ; of net internal area	A/B	2	£	Finance.CleaningCosts.Residential cleaning costs total	F_FRCCT	SpaceMeasurement.NetInternalArea.Residential NIA	F_XUP_SMNIAR	N
Component revenue costs	042C14S06R08	Net service charges as percentage of total property costs	$(100*A)/B$	1	%	Finance.NetServiceChargeandMiscellaneousPFIandPPPCosts.Residential net service charge and miscellaneous PFI and PPP costs	F_FRNSCM	Finance.PropertyCosts.Residential property costs	F_FRPCO	N
Component revenue costs	042C14S06R09	Maintenance costs as percentage of total property costs	$(100*A)/B$	1	%	Finance.RepairsandMaintenanceCosts.Residential repairs and maintenance costs total	F_FRRMCT	Finance.PropertyCosts.Residential property costs	F_FRPCO	N
Component revenue costs	042C14S06R10	Residential cleaning costs per metre ² ; of gross internal area	A/B	2	£	Finance.CleaningCosts.Residential cleaning costs total	F_FRCCT	SpaceMeasurement.GrossInternalArea.Residential GIA	F_SMGJAR	N
Analysis of maintenance										
Analysis of maintenance	042C14S07R01	Maintenance costs per metre ² ; of gross internal area	A/B	2	£	Finance.RepairsandMaintenanceCosts.Residential repairs and maintenance costs total	F_FRRMCT	SpaceMeasurement.GrossInternalArea.Residential GIA	F_SMGJAR	N

Analysis of maintenance	042C14S07R12	% of HEP's income spent on repairs and maintenance	$(100 * A) / (B + C)$	1	%	Finance.RepairsandMaintenanceCosts.Residential repairs and maintenance costs total	F_FRRMCT	Finance.Income.HESA supplied residences income <i>plus</i> Finance.Income.HESA supplied catering income	F_FIRESI + F_FICATI	N
-------------------------	--------------	--	-----------------------	---	---	--	----------	---	---------------------	---

Analysis of maintenance	042C14S07R13	Ratio of maintenance costs and capital expenditure to insurance replacement value	$(A+B+C)/D$	1		Finance.CapitalExpenditureBuildings.HESA supplied residences capital expenditure buildings <i>plus</i> Finance.CapitalExpenditureBuildings.HESA supplied catering capital expenditure buildings <i>plus</i> Finance.RepairsandMaintenanceCosts.Residential repairs and maintenance costs total	F_FRECEX + F_FCACEX + F_FRRMCT	BuildingsandFunctionality.InsuranceReplacementValue.R residential insurance replacement value	F_BRIRV	N
-------------------------	--------------	---	-------------	---	--	--	--------------------------------	---	---------	---

Energy costs, consumption and emissions

Energy costs, consumption and emissions	042C14S08R01	Energy costs per metre ² ; of gross internal area	A/B	2	£	Finance.EnergyCosts.Residential energy costs total	F_FRECTOT	SpaceMeasurement.GrossInternalArea.Residential GIA	F_SMGIAR	N
Energy costs, consumption and emissions	042C14S08R02	Energy costs per 100 kWh consumption	$(100 * A) / B$	2	£	Finance.EnergyCosts.Residential energy costs total	F_FRECTOT	EnvironmentEnergyEmissionandWaste.EnergyConsumption.Residential energy consumption total	F_FRECTOT	N
Energy costs, consumption and emissions	042C14S08R03	Energy costs gas as percentage of total energy costs	$(100 * A) / B$	1	%	Finance.EnergyCosts.Residential energy costs gas	F_FRECGAS	Finance.EnergyCosts.Residential energy costs total	F_FRECTOT	N
Energy costs, consumption and emissions	042C14S08R04	Energy costs electricity as percentage of total energy costs	$(100 * A) / B$	1	%	Finance.EnergyCosts.Residential energy costs electricity	F_FRECELE	Finance.EnergyCosts.Residential energy costs total	F_FRECTOT	N
Energy costs, consumption and emissions	042C14S08R05	Energy consumption kWh per metre ² ; of gross internal area	A/B	0		EnvironmentEnergyEmissionsandWaste.EnergyConsumption.Residential energy consumption total	F_FRECTOT	SpaceMeasurement.GrossInternalArea.Residential GIA	F_SMGIAR	N
Energy costs, consumption and emissions	042C14S08R08	Notional energy emissions (kg CO ₂ e) per metre ² ; of gross internal area	A/B	0		EnvironmentEnergyEmissionsandWaste.Scope1and2CarbonEmissions.Residential scope 1 and 2 carbon emissions total	F_E12CERT	SpaceMeasurement.GrossInternalArea.Residential GIA	F_SMGIAR	N

Water costs and consumption

Water costs and consumption	042C14S09R01	Water and sewerage costs per metre ² ; of gross internal area	A/B	2	£	Finance.WaterandSewerageCosts.Residential water and sewerage costs total	F_FRWSCCT	SpaceMeasurement.GrossInternalArea.Residential GIA	F_SMGIAR	N
Water costs and consumption	042C14S09R03	Water consumption per metre ² ; of gross internal area	A/B	1		EnvironmentEnergyEmissionsandWaste.WaterConsumption.Residential water consumption	F_ERWCON	SpaceMeasurement.GrossInternalArea.Residential GIA	F_SMGIAR	N

Total property costs

Total property costs	042C14S10R01	Residential property costs per metre ² ; of gross internal area	A/B	2	£	Finance.PropertyCosts.Residential property costs	F_FRPCO	SpaceMeasurement.GrossInternalArea.Residential GIA	F_SMGIAR	N
----------------------	--------------	--	-----	---	---	--	---------	--	----------	---