Ratio definitions

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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 metre² of net internal area	A/(B-C)	0	£	Finance.Income.HESA supplied total income	F_FIIT	SpaceMeasurement.NetInternalArea.Total NIA *minus* SpaceMeasurement.NetInternalArea.Total NIA commercial space	F_XUP_SMNIAT - F_XUP_SMNIACT	Y
Analysis of maintenance	042C01S06R18	Maintenance costs per metre² of gross internal area	A/(B-C)	2	£	Finance.RepairsandMaintenanceCosts.Total repairs and maintenance costs	F_FRMCT	SpaceMeasurement.GrossInternalArea.Total GIA *minus* SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIAT - F_SMGIACT	Y
Energy costs, consumption and emissions	042C01S07R16	Energy costs per metre² of gross internal area	A/(B-C)	2	£	Finance.EnergyCosts.Total energy costs	F_FECTOT	SpaceMeasurement.GrossInternalArea.Total GIA *minus* 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+(C-D))	2		EnvironmentEnergyEmissionsandWaste.WaterConsumption.Total water consumption	F_EWCONTOT	StudentStaffCounts.StudentFTE.Total student FTE *plus* (StudentStaffCounts.StaffFTE.Total staff FTE *minus* StudentStaffCounts.StaffFTE.Residential staff FTE)	(F_STFTET + (F_SFFTET - F_SRFTET))	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 *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_SRFTET))	Y
Waste	042C01S09R04	Waste mass per student and staff FTE	A/(B+(C-D))	3		EnvironmentEnergyEmissionsandWaste.WasteMass.Total waste mass	F_EWMT	StudentStaffCounts.StudentFTE.Total student FTE *plus* (StudentStaffCounts.StaffFTE.Total staff FTE *minus* StudentStaffCounts.StaffFTE.Residential staff FTE)	(F_STFTET + (F_SFFTET - F_SRFTET))	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 *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_SRFTET))	Y
Space allocation	042C13S02R12	Gross internal area in metre² per student and staff full-time equivalent (FTE)	A/(B+(C-D))	1	m²	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_SRFTET))	Y
Space allocation	042C13S02R13	Gross internal area in metre² per HE student and staff full-time equivalent (FTE)	A/(B+C+(D-E))	1	m²	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_SRFTET))	Y

Category	Code	Description	Formula	#	Unit	A definition	A code	B definition	B code	Flag
Condition and suitability	042C13S03R01	Building condition as percentage of gross internal area Condition A and B	A+B	1	%	BuildingsandFunctionality.ConditionAssessmentDefinition.Non-residential Building Condition Assessment Condition A *plus* BuildingsandFunctionality.ConditionAssessmentDefinition.Non-residential 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.Non-residential building Condition Assessment cost to upgrade Condition D to B *plus* BuildingsandFunctionality.ConditionAssessmentUpgradeCost.Non-residential 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.Non-residential 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.Non-residential 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 metre² of net internal area	A/B	2	£	Finance.PropertyCosts.Non-residential 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.Non-residential property costs	F_FNRPCO	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
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 non-residential capital expenditure buildings *plus* Finance.RepairsandMaintenanceCosts.HESA supplied repairs and maintenance costs other operating expenses	F_FNRCEX + F_FRMCOOE	BuildingsandFunctionality.InsuranceReplacementValue.Non-residential insurance replacement value	F_BNRIRV	Y
Energy costs, consumption and emissions	042C13S10R13	Scope 1 and 2 carbon emissions per HEP total non-residential income	A/(10*B)	2		EnvironmentEnergyEmissionsandWaste.Scope1and2CarbonEmissions.Non-residential 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		EnvironmentEnergyEmissionsandWaste.Scope1and2CarbonEmissions.Non-residential scope 1 and 2 carbon emissions total	F_E12CENRT	StudentStaffCounts.StudentFTE.Total student FTE *plus* (StudentStaffCounts.StaffFTE.Total staff FTE *minus* StudentStaffCounts.StaffFTE.Residential staff FTE)	(F_STFTET + (F_SFFTET - F_SRFTET))	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		EnvironmentEnergyEmissionsandWaste.Scope1and2CarbonEmissions.Non-residential scope 1 and 2 carbon emissions total	F_E12CENRT	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_SRFTET))	Y

Linking property to business	042C14S04R05	HEP income per bedspace	(A+B)/C	2	£	Finance.Income.HESA supplied residences income *plus* Finance.Income.HESA supplied catering income	F_FIRESI + F_FICATI	SpaceMeasurement.NumberofBedSpaces.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.NumberofBedSpaces.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_SMNIANRT	SpaceMeasurement.NetInternalArea.Total NIA	F_XUP_SMNIAT	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_SMNIACT	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.Listed Building 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 *minus* SpaceMeasurement.NetInternalArea.Total NIA commercial space	F_XUP_SMNIAT - F_XUP_SMNIACT	SpaceMeasurement.GrossInternalArea.Total GIA *minus* SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIAT - F_SMGIACT	N

Capital expenditure and value

Capital expenditure and value	042C01S02R07	Insurance replacement value per metre² 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 *plus* Buildingsandfunctionality.ConditionAssessmentUpgradeCost.Non-residential building condition assessment cost to upgrade condition C to B *plus* Buildingsandfunctionality.ConditionAssessmentUpgradeCost.Residential building condition assessment cost to upgrade condition D to B *plus* 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 metre² of gross internal area	A/(B-C)	2	£	Finance.Income.HESA supplied total income	F_FIIT	SpaceMeasurement.GrossInternalArea.Total GIA *minus* 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.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	N

Total property costs	042C01S04R09	Total property costs per metre² of net internal area	A/(B-C)	0	£	Finance.PropertyCosts.Total property costs	F_FTPCO	SpaceMeasurement.NetInternalArea.Total NIA *minus* SpaceMeasurement.NetInternalArea.Total NIA commercial space	F_XUP_SMNIAT - F_XUP_SMNIACT	N
Total property costs	042C01S04R10	Total property costs per metre² of gross internal area	A/(B-C)	2	£	Finance.PropertyCosts.Total property costs	F_FTPCO	SpaceMeasurement.GrossInternalArea.Total GIA *minus* SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIAT - 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 *plus* Finance.NetServiceChargeandMiscellaneousPFIandPPPCosts.Total net service charge and miscellaneous PFI and PPP costs *plus* Finance.EnergyCosts.Total energy costs *plus* Finance.WaterandSewerageCosts.Total water and sewerage costs *plus* Finance.RepairsandMaintenanceCosts.Total repairs and maintenance costs *plus* Finance.CleaningCosts.Total cleaning costs	F_FIPCOT + F_FNSCTM + F_FECTOT + F_FWSCT + F_FRMCT + F_FCCT	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	N
Component revenue costs	042C01S05R10	Operating costs per metre² of net internal area	(A+B+C+D+E+F)/(G-H)	0	£	Finance.InsurancePremiumsandContributions.Total insurance premiums and contributions *plus* Finance.NetServiceChargeandMiscellaneousPFIandPPPCosts.Total net service charge and miscellaneous PFI and PPP costs *plus* Finance.EnergyCosts.Total energy costs *plus* Finance.WaterandSewerageCosts.Total water and sewerage costs *plus* Finance.RepairsandMaintenanceCosts.Total repairs and maintenance costs *plus* Finance.CleaningCosts.Total cleaning costs	F_FIPCOT + F_FNSCTM + F_FECTOT + F_FWSCT + F_FRMCT + F_FCCT	SpaceMeasurement.NetInternalArea.Total NIA *minus* SpaceMeasurement.NetInternalArea.Total NIA commercial space	F_XUP_SMNIAT - F_XUP_SMNIACT	N
Component revenue costs	042C01S05R11	Cleaning costs per metre² of net internal area	A/(B-C)	2	£	Finance.CleaningCosts.Total cleaning costs	F_FCCT	SpaceMeasurement.NetInternalArea.Total NIA *minus* SpaceMeasurement.NetInternalArea.Total NIA commercial space	F_XUP_SMNIAT - F_XUP_SMNIACT	N
Component revenue costs	042C01S05R12	Total cleaning costs per metre² of gross internal area	A/(B-C)	2	£	Finance.CleaningCosts.Total cleaning costs	F_FCCT	SpaceMeasurement.GrossInternalArea.Total GIA *minus* SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIAT - 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 metre² 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*A)/B	1	%	Finance.RepairsandMaintenanceCosts.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 *plus* Finance.RepairsandMaintenanceCosts.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*A)/B	2	£	Finance.EnergyCosts.Total energy costs	F_FECTOT	EnvironmentEnergyEmissionsandWaste.EnergyConsumption.Total energy consumption	F_EECTOT	N
Energy costs, consumption and emissions	042C01S07R03	Electricity costs per 100 kWh consumption	(100*A)/(B+C+D)	2	£	Finance.EnergyCosts.Total energy costs electricity	F_FECELET	EnvironmentEnergyEmissionsandWaste.EnergyConsumption.Energy consumption grid electricity *plus* EnvironmentEnergyEmissionsandWaste.EnergyConsumption.Energy consumption electricity consumed from onsite CHP *plus* EnvironmentEnergyEmissionsandWaste.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*A)/(B+C+D+E)	2	£	Finance.EnergyCosts.Total energy costs gas	F_FECGAST	EnvironmentEnergyEmissionsandWaste.EnergyConsumption.Energy consumption compressed natural gas *plus* EnvironmentEnergyEmissionsandWaste.EnergyConsumption.Energy consumption liquefied natural gas *plus* EnvironmentEnergyEmissionsandWaste.EnergyConsumption.Energy consumption natural gas excluding that used as input for a CHP unit *plus* EnvironmentEnergyEmissionsandWaste.EnergyConsumption.Energy consumption natural gas used as input for a CHP unit	F_EECCNGAS + F_EECLNGAS + F_EECNGSEX + F_EECNGCHP	N
Energy costs, consumption and emissions	042C01S07R05	Energy costs gas as percentage of total energy costs	(100*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*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.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	N
Energy costs, consumption and emissions	042C01S07R11	Notional energy emissions (kg CO$_2$e) per student FTE	A/(B+C+D)	0		EnvironmentEnergyEmissionsandWaste.Scope1and2CarbonEmissions.Total scope 1 and 2 carbon emissions	F_E12CET	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	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_SMGIACT	N
Energy costs, consumption and emissions	042C01S07R14	Notional energy emissions (kg CO$_2$e) per metre^2 of gross internal area commercial space	A/B	0		EnvironmentEnergyEmissionsandWaste.Scope1and2CarbonEmissions.Total scope 1 and 2 carbon emissions	F_E12CET	SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIACT	N
Energy costs, consumption and emissions	042C01S07R15	Energy consumption kWh per metre^2 of gross internal area commercial space	A/B	0		EnvironmentEnergyEmissionsandWaste.EnergyConsumption.Total energy consumption	F_EECTOT	SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIACT	N
Energy costs, consumption and emissions	042C01S07R17	Energy consumption kWh per metre^2 of gross internal area	A/(B-C)	0		EnvironmentEnergyEmissionsandWaste.EnergyConsumption.Total energy consumption	F_EECTOT	SpaceMeasurement.GrossInternalArea.Total GIA *minus* SpaceMeasurement.GrossInternalArea.Total GIA commercial space	F_SMGIAT - F_SMGIACT	N

Energy costs, consumption and emissions	042C01S07R18	Notional energy emissions (kg CO$_2$e) per metre² of gross internal area	A/(B-C)	0		EnvironmentEnergyEmissionsand Waste.Scope1and2CarbonEmissi ons.Total scope 1 and 2 carbon emissions	F_E12CET	SpaceMeasurement.GrossIn ternalArea.Total GIA *minus* SpaceMeasurement.GrossIn ternalArea.Total GIA commercial space	F_SMGIAT - F_SMGIACT	N

Water costs and consumption

Water costs and consumption	042C01S08R06	Water and sewerage costs per metre² of gross internal area commercial space	A/B	2	£	Finance.WaterandSewerageCost s.Total water and sewerage costs	F_FWSCT	SpaceMeasurement.GrossIn ternalArea.Total GIA commercial space	F_SMGIACT	N
Water costs and consumption	042C01S08R07	Water consumption (metre³) per metre² of gross internal area commercial space	A/B	1		EnvironmentEnergyEmissionsand Waste.WaterConsumption.Total water consumption	F_EWCONTOT	SpaceMeasurement.GrossIn ternalArea.Total GIA commercial space	F_SMGIACT	N
Water costs and consumption	042C01S08R09	Water and sewerage costs per metre² of gross internal area	A/(B-C)	2	£	Finance.WaterandSewerageCost s.Total water and sewerage costs	F_FWSCT	SpaceMeasurement.GrossIn ternalArea.Total GIA *minus* SpaceMeasurement.GrossIn ternalArea.Total GIA commercial space	F_SMGIAT - F_SMGIACT	N
Water costs and consumption	042C01S08R10	Water consumption (metre³) per metre² of gross internal area	A/(B-C)	1		EnvironmentEnergyEmissionsand Waste.WaterConsumption.Total water consumption	F_EWCONTOT	SpaceMeasurement.GrossIn ternalArea.Total GIA *minus* SpaceMeasurement.GrossIn ternalArea.Total GIA commercial space	F_SMGIAT - F_SMGIACT	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	%	EnvironmentEnergyEmissionsand Waste.WasteMass.Total waste mass recycled	F_EWMRECT	EnvironmentEnergyEmission sandWaste.WasteMass.Tot al waste mass	F_EWMT	N
Waste	042C01S09R05	Waste mass (tonnes) per metre² gross internal area commercial space	A/B	3		EnvironmentEnergyEmissionsand Waste.WasteMass.Total waste mass	F_EWMT	SpaceMeasurement.GrossIn ternalArea.Total GIA commercial space	F_SMGIACT	N
Waste	042C01S09R07	Waste mass (tonnes) per metre² gross internal area	A/(B-C)	3		EnvironmentEnergyEmissionsand Waste.WasteMass.Total waste mass	F_EWMT	SpaceMeasurement.GrossIn ternalArea.Total GIA *minus* SpaceMeasurement.GrossIn ternalArea.Total GIA commercial space	F_SMGIAT - F_SMGIACT	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.ExternallyProvidedPrope rtyManagementCosts.Total externally-provided property management costs	F_FEPPMCT	Finance.InternallyIncurredPr opertyManagementCosts.T otal Internally-incurred property management costs *plus* Finance.ExternallyProvidedP ropertyManagementCosts.T otal 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.NetInternal Area.Non-residential NIA total	F_XUP_SMNIA NRT	SpaceMeasurement.GrossIn ternalArea.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 *plus* 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.Constr uctionDate.Non-residential construction date 1915-1939 *plus* BuildingsandFunctionality.Constr uctionDate.Non-residential construction date 1840-1914 *plus* BuildingsandFunctionality.Constr uctionDate.Non-residential construction date before 1840	F_BNRD1915 + F_BNRD1840 + F_BNRB1840			N

Category	Code	Description	Formula		Unit	A		B		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 *plus* 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.PercentageofNetInternalAreaUsedForTimeTabledTeaching.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_SMNIATET	SpaceMeasurement.NetInternalArea.Non-residential NIA total	F_XUP_SMNIANRT	N
Space allocation	042C13S02R02	Research net internal area as percentage of total net internal area	(100*A)/B	1	%	SpaceMeasurement.NetInternalArea.Research NIA total	F_XUP_SMNIARET	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*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*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*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*(A+B+C))/D	1	%	SpaceMeasurement.NetInternalArea.Teaching offices NIA *plus* SpaceMeasurement.NetInternalArea.Research offices NIA *plus* SpaceMeasurement.NetInternalArea.Support offices NIA	F_XUP_SMNIATEO + F_XUP_SMNIAREO + F_XUP_SMNIASO	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*A)/(B+C)	1	%	SpaceMeasurement.SpecialistAcademicArea.Total specialist academic area	F_XUP_SMSAA	SpaceMeasurement.NetInternalArea.Research not offices NIA *plus* 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*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*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*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.Non-residential 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*(A+B))/C	1	%	BuildingsandFunctionality.ConditionAssessmentUpgradeCost.Non-residential building condition assessment cost to upgrade condition D to B *plus* BuildingsandFunctionality.ConditionAssessmentUpgradeCost.Non-residential 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 non-residential income total	F_FINRIT	BuildingsandFunctionality.ConditionAssessmentUpgradeCost.Non-residential building condition assessment cost to upgrade condition C to B *plus* BuildingsandFunctionality.ConditionAssessmentUpgradeCost.Non-residential building condition assessment cost to upgrade condition D to B	F_BNRAUCB + F_BNRAUDB	N
Capital expenditure and value										

Category	Code	Description	Formula		Unit	Numerator	Num Code	Denominator	Den Code	
Capital expenditure and value	042C13S04R01	Insurance replacement value per metre² of gross internal area	A/B	2	£	BuildingsandFunctionality.InsuranceReplacementValue.Non-residential insurance replacement value	F_BNRIRV	SpaceMeasurement.GrossInternalArea.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.PropertyCosts.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	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	N
Linking property to business	042C13S05R04	HEP income per metre² of net internal area	A/B	2	£	Finance.Income.HESA supplied non-residential income total	F_FINRIT	SpaceMeasurement.NetInternalArea.Non-residential NIA total	F_XUP_SMNIANRT	N
Linking property to business	042C13S05R05	Teaching HEP income per metre² of net internal area	A/B	2	£	Finance.Income.HESA supplied teaching income	F_FITEI	SpaceMeasurement.NetInternalArea.Teaching NIA total	F_XUP_SMNIATET	N
Linking property to business	042C13S05R06	Research HEP income per metre² of net internal area	A/B	2	£	Finance.Income.HESA supplied research income	F_FIREI	SpaceMeasurement.NetInternalArea.Research NIA total	F_XUP_SMNIARET	N
Linking property to business	042C13S05R07	Other HEP income per metre² of net internal area	A/B	2	£	Finance.Income.HESA supplied other non-residential income	F_FINRIO	SpaceMeasurement.NetInternalArea.Non-residential NIA other	F_XUP_SMNIANRO	N
Linking property to business	042C13S05R13	Non-residential income per metre² of gross internal area	A/B	2	£	Finance.Income.HESA supplied non-residential income total	F_FINRIT	SpaceMeasurement.GrossInternalArea.Non-residential GIA	F_SMGIANR	N
Linking property to business	042C13S05R14	Teaching income per metre² of gross internal area	A/B	2	£	Finance.Income.HESA supplied teaching income	F_FITEI	SpaceMeasurement.GrossInternalArea.Non-residential GIA	F_SMGIANR	N
Linking property to business	042C13S05R15	Research income per metre² of gross internal area	A/B	2	£	Finance.Income.HESA supplied research income	F_FIREI	SpaceMeasurement.GrossInternalArea.Non-residential GIA	F_SMGIANR	N
Linking property to business	042C13S05R16	Other non-residential income per metre² of gross internal area	A/B	2	£	Finance.Income.HESA supplied other non-residential income	F_FINRIO	SpaceMeasurement.GrossInternalArea.Non-residential GIA	F_SMGIANR	N
Linking property to business	042C13S05R18	Capital expenditure as % of HEP Income	(100*A)/B	1	%	Finance.CapitalExpenditureBuildings.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		SpaceMeasurement.NetInternalArea.Teaching NIA total *plus* SpaceMeasurement.NetInternalArea.Research NIA total	F_XUP_SMNIATET + F_XUP_SMNIARET	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	N
Utilisation ratios	042C13S06R03	Core teaching space per taught student FTE	A/B	1		SpaceMeasurement.NetInternalArea.Teaching not offices NIA	F_XUP_SMNIATE	StudentStaffCounts.StudentFTE.HESA supplied teaching student FTE	F_STFTETE	N
Utilisation ratios	042C13S06R04	Academic office net internal area per academic staff FTE	(A+B)/(C)	1		SpaceMeasurement.NetInternalArea.Teaching offices NIA *plus* SpaceMeasurement.NetInternalArea.Research offices NIA	F_XUP_SMNIATEO + F_XUP_SMNIAREO	StudentStaffCounts.StaffFTE.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_SMNIASO	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 *multiplied by* 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_SMNIATE	N

Category	Code	Description	Formula	Dec	Unit	A definition	A code	B definition	B code	Flag
Utilisation ratios	042C13S06R11	Catering net internal area per student FTE	A/(B+C+D)	1		SpaceMeasurement.NetInternalArea.Support NIA associated with catering	F_XUP_SMNIACS	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	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_SMNIALC	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	N

Total property costs

Category	Code	Description	Formula	Dec	Unit	A definition	A code	B definition	B code	Flag
Total property costs	042C13S07R10	Non-residential property costs per metre² of gross internal area	A/B	2	£	Finance.PropertyCosts.Non-residential property costs	F_FNRPCO	SpaceMeasurement.GrossInternalArea.Non-residential GIA	F_SMGIANR	N

Component revenue costs

Category	Code	Description	Formula	Dec	Unit	A definition	A code	B definition	B code	Flag
Component revenue costs	042C13S08R01	Non-residential operating costs per metre² of net internal area	(A+B+C+D+E+F)/G	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.RepairsandMaintenanceCosts.Non-residential repairs and maintenance costs total *plus* Finance.CleaningCosts.Non-residential 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.RepairsandMaintenanceCosts.Non-residential repairs and maintenance costs total *plus* Finance.CleaningCosts.Non-residential cleaning costs total	F_FNRIPCO + F_FNRNSCM + F_FNRECTOT + F_FNRWSCT + F_FNRRMCT + F_FNRCCT	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	N
Component revenue costs	042C13S08R10	Cleaning costs per metre² 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 metre² 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_FNRRP	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.RepairsandMaintenanceCosts.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 metre² 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 metre² of gross internal area	A/B	2	£	Finance.RepairsandMaintenanceCosts.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.RepairsandMaintenanceCosts.Non-residential repairs and maintenance costs total	F_FNRRMCT	Finance.Income.HESA supplied non-residential 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 non-residential capital expenditure buildings *plus* Finance.RepairsandMaintenanceCosts.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 metre² 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	EnvironmentEnergyEmissionsandWaste.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.Non-residential energy costs oil *plus* Finance.EnergyCosts.Non-residential energy costs coal (industrial) *plus* Finance.EnergyCosts.Non-residential energy costs steam and hot water *plus* Finance.EnergyCosts.Non-residential energy costs other	F_FNRECOIL + F_FNRECCOA + F_FNRECSHW + F_FNRECOTH	Finance.EnergyCosts.Non-residential energy costs total	F_FNRECTOT	N
Energy costs, consumption and emissions	042C13S10R06	Energy consumption kWh per metre² of gross internal area	A/B	0		EnvironmentEnergyEmissionsandWaste.EnergyConsumption.Non-residential 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		EnvironmentEnergyEmissionsandWaste.EnergyConsumption.Non-residential energy consumption total	F_ENRECT	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	N
Energy costs, consumption and emissions	042C13S10R10	Notional energy emissions (kg CO$_2$e) per metre² of gross internal area	A/B	0		EnvironmentEnergyEmissionsandWaste.Scope1and2CarbonEmissions.Non-residential 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$_2$e) per student FTE	A/(B+C+D)	0		EnvironmentEnergyEmissionsandWaste.Scope1and2CarbonEmissions.Non-residential scope 1 and 2 carbon emissions total	F_E12CENRT	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	N
Water costs and consumption										
Water costs and consumption	042C13S11R01	Water and sewerage costs per metre² of gross internal area	A/B	2	£	Finance.WaterandSewerageCosts.Non-residential 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 metre³ of consumption	A/B	2	£	Finance.WaterandSewerageCosts.Non-residential water and sewerage costs total	F_FNRWSCT	EnvironmentEnergyEmissionsandWaste.WaterConsumption.Non-residential water consumption	F_ENRWCON	N
Water costs and consumption	042C13S11R03	Water consumption metre³ per metre² of gross internal area	A/B	1		EnvironmentEnergyEmissionsandWaste.WaterConsumption.Non-residential water consumption	F_ENRWCON	SpaceMeasurement.GrossInternalArea.Non-residential GIA	F_SMGIANR	N
Water costs and consumption	042C13S11R05	Water consumption metre³ per student FTE	A/(B+C+D)	1		EnvironmentEnergyEmissionsandWaste.WaterConsumption.Non-residential water consumption	F_ENRWCON	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	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 *plus* BuildingsandFunctionality.Tenure.Residential tenure long leasehold	F_BRTF + F_BRTLL			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 *plus* BuildingsandFunctionality.ConstructionDate.Residential construction date 1840-1914 *plus* 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 *plus* 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 *plus* 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 *plus* 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 *plus* Finance.Income.HESA supplied catering income	F_FIRESI + F_FICATI	BuildingsandFunctionality.ConditionAssessmentUpgradeCost.Residential building condition assessment cost to upgrade condition C to B *plus* 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 *plus* Finance.Expenditure.HESA supplied catering expenditure	F_FERESEXP + 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 *plus* Finance.Income.HESA supplied catering income	F_FIRESI + F_FICATI	Finance.Expenditure.HESA supplied residences expenditure *plus* Finance.Expenditure.HESA supplied catering expenditure	F_FERESEXP + F_FECATEXP	N
Linking property to business	042C14S04R04	HEP income per metre² of net internal area	(A+B)/C	2	£	Finance.Income.HESA supplied residences income *plus* 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 metre² of gross internal area	(A+B)/C	2	£	Finance.Income.HESA supplied residences income *plus* Finance.Income.HESA supplied catering income	F_FIRESI + F_FICATI	SpaceMeasurement.GrossInternalArea.Residential GIA	F_SMGIAR	N

Linking property to business	042C14S04R09	HEP expenditure per bedspace	(A+B)/C	2	£	Finance.Expenditure.HESA supplied residences expenditure *plus* 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 *plus* Finance.CapitalExpenditureBuildings.HESA supplied catering capital expenditure buildings	F_FRESCEX + F_FCATCEX	Finance.Income.HESA supplied residences income *plus* 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.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	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 metre² 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 metre² of gross internal area	A/B	2	£	Finance.CleaningCosts.Residential cleaning costs total	F_FRCCT	SpaceMeasurement.GrossInternalArea.Residential GIA	F_SMGIAR	N

Analysis of maintenance

Analysis of maintenance	042C14S07R01	Maintenance costs per metre² of gross internal area	A/B	2	£	Finance.RepairsandMaintenanceCosts.Residential repairs and maintenance costs total	F_FRRMCT	SpaceMeasurement.GrossInternalArea.Residential GIA	F_SMGIAR	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 *plus* 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 *plus* Finance.CapitalExpenditureBuildings.HESA supplied catering capital expenditure buildings *plus* Finance.RepairsandMaintenanceCosts.Residential repairs and maintenance costs total	F_FRESCEX + F_FCATCEX + F_FRRMCT	BuildingsandFunctionality.InsuranceReplacementValue.Residential insurance replacement value	F_BRIRV	N

Energy costs, consumption and emissions

Energy costs, consumption and emissions	042C14S08R01	Energy costs per metre² 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	EnvironmentEnergyEmissionsandWaste.EnergyConsumption.Residential energy consumption total	F_ERECTOT	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 metre² of gross internal area	A/B	0		EnvironmentEnergyEmissionsandWaste.EnergyConsumption.Residential energy consumption total	F_ERECTOT	SpaceMeasurement.GrossInternalArea.Residential GIA	F_SMGIAR	N
Energy costs, consumption and emissions	042C14S08R08	Notional energy emissions (kg CO_2e) per metre² 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 metre² of gross internal area	A/B	2	£	Finance.WaterandSewerageCosts.Residential water and sewerage costs total	F_FRWSCT	SpaceMeasurement.GrossInternalArea.Residential GIA	F_SMGIAR	N

Water costs and consumption	042C14S09R03	Water consumption metre³ per metre² of gross internal area	A/B	1		EnvironmentEnergyEmissionsand Waste.WaterConsumption.Resid ential water consumption	F_ERWCON	SpaceMeasurement.GrossIn ternalArea.Residential GIA	F_SMGIAR	N
Total property costs										
Total property costs	042C14S10R01	Residential property costs per metre² of gross internal area	A/B	2	£	Finance.PropertyCosts.Residenti al property costs	F_FRPCO	SpaceMeasurement.GrossIn ternalArea.Residential GIA	F_SMGIAR	N