

A national cost benchmarking study undertaken by Hampshire County Council in conjunction with East Riding of Yorkshire Council and the Department for Education

Supported By



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Authority

June 2019

Version 6

Mill Chase Secondary School Academy, Hampshire County Council















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Part One | Report Context

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This publication is split into five distinct sections, namely; report context, primary schools, secondary schools, SEN schools and further information. These sections are shown below along with their key outputs.

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Wyton Primary School, Cambridgeshire County Council

845 projects submitted

















Part One | Report Context

Study Background

This document publishes the results of a national cost benchmarking exercise undertaken by Hampshire County Council in partnership with East Riding of Yorkshire Council on new build, extended and refurbished primary, secondary and SEN schools.

This report provides a useful reference point for Local Authorities when establishing their school building costs. As part of the initiative the Local Government Association (LGA) is seeking to encourage greater collaboration between Local Authorities to drive down new and refurbished school costs. A benchmarking workshop was held on 6 October 2017 to discuss the output of the 2017 study and the presentation of information included and analysed in that report. As a result some additional features have been included this time. It is also intended to further develop the data following the workshop and publish any additional findings.

The findings contained within this report have been shared with the Infrastructure and Projects Authority (IPA) which is part of the Cabinet Office, and Department for Education (DfE). This report is the seventh publication produced for the public sector and is a valuable tool to understand the total costs associated with providing new school places across the country.

This study has been undertaken with funding from the LGA and has been conducted in conjunction with the following organisations:

- Education Building and Development Officers Group (EBDOG).
- National Association of Construction Frameworks (NACF).

The project sample used in this report comprises 819 projects from across England, consisting of:

- ♦ 601 primary school projects
- 159 secondary school projects
- 10 All-Through school projects
- ♦ 49 SEN school projects
- 26 projects not used (due to poor or inconsistent data)

Common Standard

A common standard of cost analysis has been used to capture cost data, ensuring a high level of consistency across the sample, while including detailed cost and background information on each project – allowing the costs to be fully understood on an individual project basis. The data has then been collated at a common price base,

The following criteria were used to select projects for this study:

- Primary, secondary or SEN school projects.
- Permanent new build, extended or refurbished school projects.
- Contract formed since 2012.

Full details of how the data has been adjusted can be found on page 31.

Industry Summary

Recent commentary from the Royal Institution of Chartered Surveyors (RICS) Building Cost Information Service (BCIS) are predicting a 29% rise in construction costs over the next 5 years. A modest growth in work output this year and output picking up in 2020, in the next 5 years new work output is expected to rise by 23%.

335,000 school places £4.96 billion

combined project capital value

















Part One | Report Context

Contributing Authorities

We are grateful to all Local Authorities who have contributed projects to this study. In addition to data submitted directly from authorities, we are also grateful to have received a new sample from the Department for Education (DfE) of DfE capital programme schemes. The list below shows the areas covered by the study.

Amber Valley Borough Council Birmingham City Council

Bracknell Forest Council

Bradford Metropolitan District Council Brighton and Hove City Council

Bristol City Council

Buckinghamshire County Council Bury Metropolitan Borough Council

Calderdale Metropolitan Borough Council

Cambridge City Council

Cambridgeshire County Council Central Bedfordshire Council

Cheshire West and Chester Council

Chichester District Council

City of York Council

Cornwall Council (Unitary)

Coventry City Council

Cumbria County Council **Daventry District Council**

Derby City Council

Devon County Council

Doncaster Metropolitan Borough Council

Dorset County Council Dover District Council

Durham County Council

East Riding of Yorkshire Council East Sussex County Council

Elmbridge Borough Council

Epsom and Ewell Borough Council

Erewash Borough Council

Essex County Council

Gateshead Metropolitan Borough Council

Gloucestershire County Council

Halton Borough Council Hampshire County Council

Hartlepool Borough Council

Hertfordshire County Council

Isle of Wight Council

Kent County Council

Kingston-Upon-Hull City Council

Kirklees Council

Lancashire County Council

Leeds City Council

Leicester City Council

Lewes District Council

Lincolnshire County Council

Liverpool City Council

London Borough of Barking and Dagenham

London Borough of Barnet

London Borough of Brent

London Borough of Bromley

London Borough of Camden

London Borough of Crovdon London Borough of Ealing

London Borough of Enfield

London Borough of Hammersmith & Fulham

London Borough of Harrow

London Borough of Havering

London Borough of Hillingdon London Borough of Hounslow

London Borough of Islington

London Borough of Kensington and Chelsea

London Borough of Lambeth London Borough of Lewisham

London Borough of Merton London Borough of Newham

London Borough of Redbridge

London Borough of Richmond upon Thames

London Borough of Southwark London Borough of Sutton

London Borough of Tower Hamlets London Borough of Waltham Forest

London Borough of Wandsworth

London Borough of Westminster Luton Borough Council

Manchester City Council

Medway Council

Norfolk County Council North East Lincolnshire Council

North Lincolnshire Council

North Somerset Council

North Tyneside Metropolitan Borough Council

North Yorkshire County Council Northampton Borough Council

Northamptonshire County Council

Northumberland Council Unitary

Norwich City Council Nottingham City Council

Nottinghamshire County Council

Oldham Metropolitan Borough Council

Oxfordshire County Council Peterborough City Council Plymouth City Council

Portsmouth City Council Reading Borough Council

Redcar and Cleveland Council Reigate and Banstead Borough Council Rotherham Metropolitan Borough Council Royal Borough of Greenwich

Royal Borough of Kensington and Chelsea Royal Borough of Windsor and Maidenhead

Salford City Council

Sandwell Metropolitan Borough Council

Sefton Metropolitan Borough Council

Sheffield City Council

Shropshire Council (Unitary)

Slough Borough Council

Somerset County Council South Gloucestershire Council

Southampton City Council

Spelthorne Borough Council

St Helens Metropolitan Borough Council

Stafford Borough Council Staffordshire County Council

Stockport Metropolitan Borough Council

Stockton-on-Tees Borough Council

Stoke-on-Trent City Council

Suffolk County Council Sunderland City Council

Surrey County Council

Swindon Borough Council

Tameside Metropolitan Borough Council

Thanet District Council Thurrock Council

Torbay Council

Trafford Metropolitan Borough Council Tunbridge Wells Borough Council

Wakefield Metropolitan District Council

Warrington Borough Council

Warwickshire County Council West Berkshire Council

West Sussex County Council

Wigan Metropolitan Borough Council

Wiltshire Council (Unitary)

Windsor and Maidenhead Council

Wirral Council

Woking Borough Council Wokingham Borough Council

Wolverhampton City Council Worthing Borough Council



covered across England













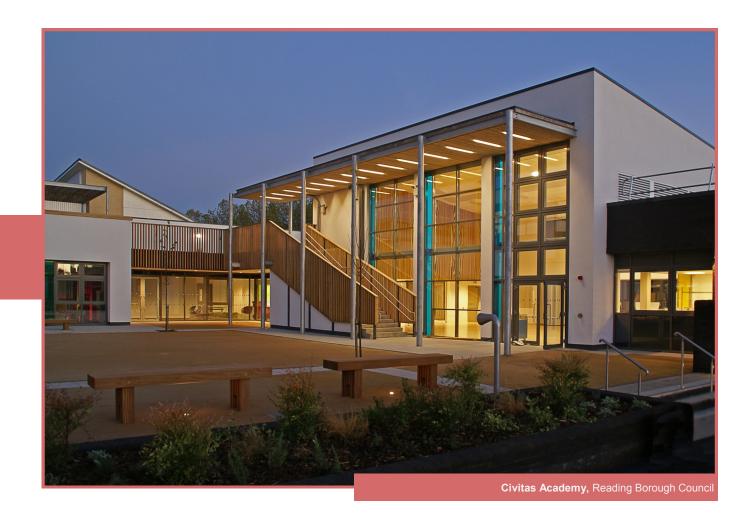




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Part Two
Primary Schools



















Part Two | Primary Schools

Overview

The primary school sample consists of 601 projects which are split into three school categories as shown in the pie chart (right). This sample features projects from 2012 to 2019 with a total combined capital value of £2.25 billion, comprising:

- 84 New Development projects
- ◆ 454 Re-Build & Extension projects
- 63 Refurbishment projects

601 primary schools

The majority of the primary school sample consists of Re-Build & Extension projects. continuing the trend that Local Authorities are expanding existing school sites to meet the increasing demand for pupil places. However, New Development projects on greenfield sites have seen a 19% increase in number since the last report. This rise tends to reflect the growth in new school places associated with major developments and reduced viability of providing new school places on existing sites.

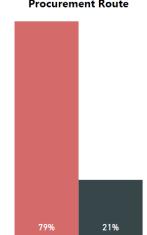
The majority of schemes are procured via framework arrangements either at a national, regional or local level. It has not been possible to draw sufficient trends relating to the cost benefits of these different procurement routes due to the significant variations in the framework arrangements.

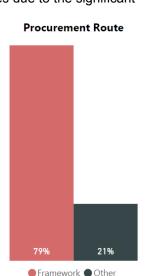
Over the next pages further commentary is provided for each project category which details cost variations and observations on drivers for costs between projects.

160,000 new primary places

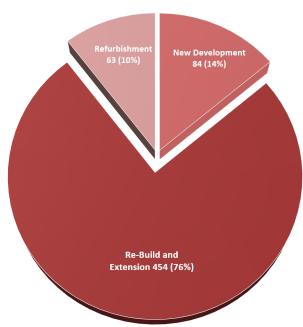
£2.25 billion

capital value of primary school sample

























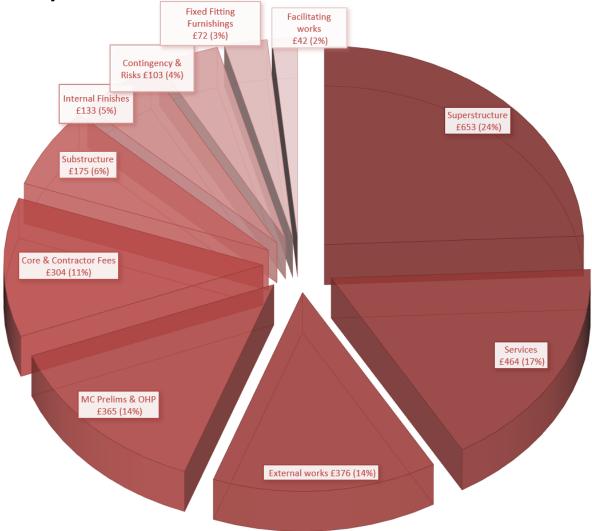


Overview

New Development Primary Schools

Gross and nett rates plus average elemental cost breakdown have been provided this year for new build developments. This provides a cost per m² of the main building elements and the percentage of the cost each element represents drawn from the entire whole sample.

Average Elemental Costs per m² for Primary Schools



















Part Two | Primary Schools

Annual Cost Trajectory

Primary school gross costs as a whole sample have decreased by 6.16% since 2012, after indexing, The sample size of 2017 projects has increased from the 2019 data capture giving more confidence to the figures. The graph indicates that 2014 and 2015 represented the lowest point of the gross costs trends which has since increased to a high point in 2016 before dropping back in 2017 and 2018. There are a number of reasons for the fluctuations evidenced in the cost trajectory over the last six years (Graph 1, right) which are outlined below.

New Development

Projects built on greenfield sites with 100% of the works being new build saw a steady reduction in gross costs from 2012 to 2018, although there was a spike in costs in 2016. The costs for 2018 are now back to the similar levels achieved in 2014/15. Overall in the last six years costs have reduced by 11%. The positive trend indicated is likely to be as a result of the adoption of a standardised approach to design; more delivery through collaborative arrangements and adopting a more cost driven approach.

In 2016 the new build gross cost rose which is considered to be a reflection of the market conditions, Brexit and the impact of the increase in housing output on prevailing prices.

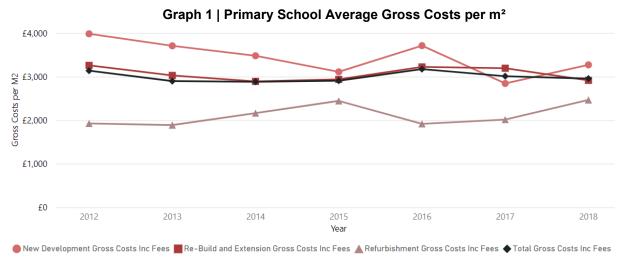
The costs dropped between 2016 and 2017 by 23% and then rose by 14.94% between 2017 and 2018, whilst the equivalent cost adjustment across the whole sample was only 5% and 0.23% respectively. The overall cost trajectory from 2015 until 2018 is 5%.

Re-Build & Extension

Extensions to existing school buildings, new teaching blocks and re-built schools on existing sites have seen a downward trajectory for cost, albeit with a spike in 2016 much as can be seen with the New Development costs. A number of factors influence this trend (N.B. page 10 dataset used as comparator).

Refurbishment

Due to the varying nature of refurbishment projects it is difficult to draw conclusive results from the cost trajectory. Due to a small sample size in 2016, there is a lower level of confidence in the data.



Figur	e 1 Primary	School Gross	s Costs per i	m²					
	New Dev	velopment	Re-Build &	Extension		Refurbi	shment	Whole	Sample
Year	Gross Cost	Sample Size	Gross Cost	Sample Size		Gross Cost	Sample Size	Gross Cost	Sample Size
2012	£3,992	3	£3,268	29		£1,932	5	£3,146	37
2013	£3,716	6	£3,036	72		£1,896	14	£2,907	92
2014	£3,488	13	£2,899	112		£2,171	12	£2,891	137
2015	£3,118	19	£2,946	103		£2,452	15	£2,916	137
2016	£3,720	14	£3,231	76		£1,924	9	£3,181	99
2017	£2,852	20	£3,243	37		£2,022	4	£3,018	61
2018	£3,278	9	£2,888	20] [£2,473	4	£3,025	33

















Re-Build & Extension projects are formed from a combination of new blocks, extensions to existing schools and re-build projects on the existing site. The sample used for comparing Local Authority with DfE procured schemes has been restricted to projects with a GIFA of over 750m² as none of the DfE projects are less than 1FE within the sample.

Graph 2 (right) displays a cost trajectory for the DfE projects alongside those from Local Authorities. The total samples size has increased by a large number of projects since 2012.

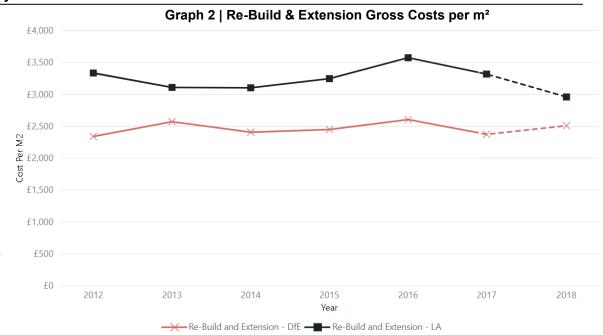
Local Authority costs fell steadily between 2012 and 2015, but costs rose in 2016 and before falling back in 2017. The rate for 2017 is back to levels of 2012.

DfE average gross costs are lower than Local Authorities but the gap is reducing, this is in part due to the collaborative working between the DfE, LA's and EBDOG on understanding cost differences and sharing best practice. DfE project costs/m² are currently 28.49% lower in the 2017 sample of projects in comparison to the LA costs, but with the LA costs on a downward trajectory. The trend line indicates an approximate 15% difference at the end of 2018 between LA and DfE costs. There are a number of factors influencing these costs:

- DfE projects are generally much larger than Local Authority schemes and therefore benefit from economies of scale.
- The DfE has a focus on efficiencies through standardisation of design and purchasing at scale via the DfE Construction Frameworks.

Due to the data set collected by this study a large percentage of projects submitted for the year 2016 are smaller in size than those in 2015. This is evidenced in Figure 2 (right) which shows an increase in Local Authority costs for 2016 then costs easing in 2017.

Figure 2 (right) displays the average costs per year alongside the number of projects in each year banding.



















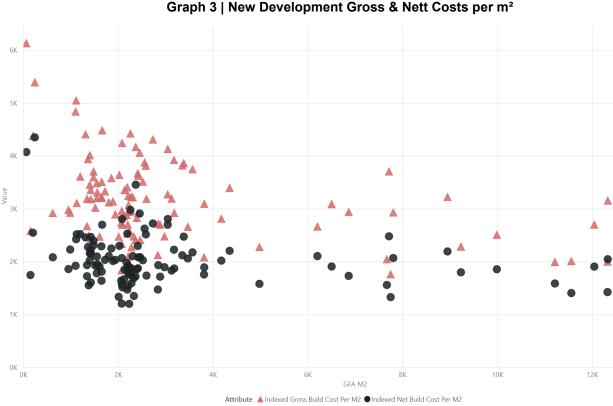


Part Two | Primary Schools

New Development Summary

New Development projects are new schools built on greenfield sites, which include significant infrastructure and external work costs. There are 84 such projects in this study. Graph 3 (right) displays the gross and nett costs per m² for these projects. A detailed breakdown is shown on page 12.





Barton Farm School. Hampshire County Council

2,008m² 5.85m² average floor area

average GIFA per pupil place

average contract period

£3,303

£2,124 £16,874 average cost per pupil place

Key Definitions

New Development

Any project where 100% of the works being undertaken are new build and the site used is a greenfield site. Includes significant infrastructure and external works.

Location Factor

All costs have been normalised to a common UK average price level using regional location factors published by BCIS to accord with the UK Mean 100. Index taken at March 2019.

Inflation

All costs have been updated to the latest Building Cost Information Service (BCIS) ALL-IN Tender Price Index (TPI) of 1st Quarter 2018 of 317. Index taken from March 2019 data forecasts. This adjusts costs for inflation. VAT is excluded throughout.

Further definitions of key terms and footnotes outlining how the data has been treated can be found on page 31.

















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Part Two | Primary Schools

New Development Summary

A detailed breakdown of average costs by GIFA bands is shown in the table below.

Some key analysis from this data set is summarised below:

Procurement

The study has demonstrated that the majority of New Development projects are procured via two stage open book tendering.

Form of Construction

The majority of projects use a steel frame with a composite cladding system. A small number of schemes use modular forms of construction, which on average reduce contract periods by about 15% on a typical school build when compared to an equivalent sample of steel frame projects, with an average cost saving of 7%.

Infrastructure

Due to the nature of these projects a significant investment in infrastructure and external works is evidenced throughout the sample. On average this infrastructure cost is 10% higher than seen throughout an equivalent sample of Re-Build & Extension projects where the existing site is used.

	Figure 3 New D	evelopment	Average Cost Sumi	nary				
		Gros	s Cost per m²	Nett	Cost per m²	Cost F	er Pupil Place	Commis
	GIFA (m²)	Average	20th Percentile	Average	20th Percentile	Averege	20th Percentile	Sample Size
		Average	80th Percentile	Average	80th Percentile	Average	80th Percentile	0.20
	0. 750	04.007	£2,860	00.004	£2,138	040 404	£4,657	
	0 - 750	£4,287	£5,545	£2,994	£4,133	£10,461	£13,831	5
	750 4 500	02.402	£2,799	00.445	£1,889	040.055	£14,386	18
1	750 - 1,500	£3,462	£3,988	£2,145	£2,449	£19,655	£23,202	
	1,500 - 2,250	£3,049	£2,701	C4 024	£1,644	C1E 002	£11,407	31
	1,300 - 2,230	£3,049	£3,409	£1,921	£2,109	£15,093	£18,810	
	2,250 - 3,000	£3,228	£2,481	£2,154	£1,737	£19.084	£12,468	20
	2,230 - 3,000	13,220	£3,918	£2,154	£2,649	19,004	£24,305	
•	3,000 - 3,750	£3.508	£3,089	£2,256	£1,989	£16,329	£14,838	9
	3,000 - 3,730	£3,300	£3,892	£2,230	£2,568	£10,329	£17,681	9
	Above 3,750	£3,099	£3,099	£1,897	£1,897	£14,806	£14,806	1
	Above 3,730	25,099	£3,099	£1,097	£1,897	£14,000	£14,806	
	Whole Sample	£3,303	£2,691	£2,124	£1,747	£16.874	£11,935	84
	All GIFA Bands	23,303	£3,874	42,124	£2,474	£16,874 £21,671	04	

Key Definitions

New Development

Any project where 100% of the works being undertaken are new build and the site used is a greenfield site. Includes significant infrastructure and external works.

Location Factor

All costs have been normalised to a common UK average price level using regional location factors published by BCIS to accord with the UK Mean 100. Index taken at March 2019.

Inflation

All costs have been updated to the latest Building Cost Information Service (BCIS) ALL-IN Tender Price Index (TPI) of 1st Quarter 2018 of 317. Index taken from March 2019 data forecasts. This adjusts costs for inflation. VAT is excluded throughout.

Further definitions of key terms and footnotes outlining how the data has been treated can be found on page 31.

















Part Two | Primary Schools

Re-Build & Extension Summary

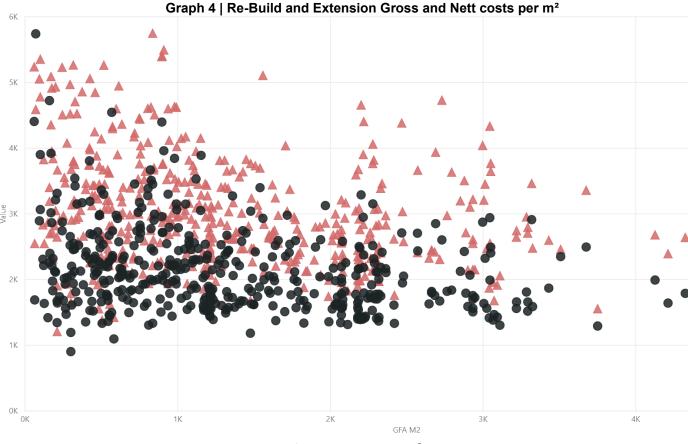
Re-Build & Extension projects are formed from a combination of new blocks, extensions to existing schools and re-build projects on the existing site. In most cases there are elements of demolition and some projects include refurbishment work to existing buildings.

In total, 454 Re-Build & Extension projects were submitted to the study, Graph 4 (right) displays the gross and nett costs per m² for these projects. A detailed breakdown is shown on page 14.

The sample includes 191 DfE schemes submitted by the DfE, these projects include local authority contributions where applicable.



Whitehouse Primary School, Suffolk County Council



Attribute Andexed Gross Build Cost Per M2 Indexed Net Build Cost Per M2

1,356m² 5.24m²

41wks

£3,038

£2,148 £14,189

average floor area

average GIFA per pupil place

average contract period

average gross cost /m²

average nett cost /m²

average cost per pupil place

Key Definitions

Re-Build & Extension

Any project where over 50% of the works being undertaken are new build, where the site used is adjacent to or the same as the existing site. using regional location factors published by BCIS to accord with the UK Including new build blocks, extensions to existing buildings and rebuilds Mean 100. Index taken at March 2019. which include elements of demolition.

Location Factor

All costs have been normalised to a common UK average price level

Further definitions of key terms and footnotes outlining how the data has been treated can be found on page 31.

Inflation

All costs have been updated to the latest Building Cost Information Service (BCIS) ALL-IN Tender Price Index (TPI) of 1st Quarter 2018 of 317. Index taken from March 2019 data forecasts. This adjusts costs for inflation. VAT is excluded throughout.

















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Part Two | Primary Schools

Re-Build & Extension Summary

A detailed breakdown of average costs by GIFA bands is shown in the table below.

Some key analysis from this data set is summarised below.

Procurement

The study demonstrates that the Re-Build & Extension projects are procured via a number of different methods which include single stage and two stage tendering.

Form of Construction

The majority of projects use a steel frame with a composite cladding system. A small number of schemes use modular forms of construction, which on average reduce contract periods by 15% when compared to an equivalent sample of steel frame projects., with an average cost saving of 7%.

Infrastructure

Due to the nature of Re-Build & Extension projects, where the existing site is maintained, the costs associated with infrastructure are low, representing 15% of the total project cost on average across the sample. and therefore do not form part of the construction cost for the school.

On average the infrastructure cost for a new development is 10% higher than seen throughout an equivalent sample of Re-Build & Extension projects where the existing site is used.

	Figure 4 Re-Bu	ild & Extens	ion Average Cost S	ummary				
		Gross	s Cost per m²	Nett	Cost per m²	Cost F	er Pupil Place	
	GIFA (m²)	A	20th Percentile	A	20th Percentile	A	20th Percentile	Sample Size
1		Average	80th Percentile	Average	80th Percentile	Average	80th Percentile	3126
4	0.750	00.000	£2,568	00.074	£1,765	040.040	£7,208	405
	0 - 750	£3,330	£4,124	£2,371	£2,882	£13,346	£16,513	165
	750 4 500	00.044	£2,404	00.405	£1,635	045.050	£10,971	407
	750 - 1,500	£3,011	£3,609	£2,165	£2,581	£15,652	£17,622	137
	4 500 2 250	02.725	£2,220	04.007	£1,539	040.755	£10,209	00
	1,500 - 2,250	£2,735	£3,152	£1,897	£2,244	£13,755	£17,430	82
	2.2522.002	00.040	£2,301	04.005	£1,626	044.040	£9,894	45
	2,250 - 3,000	£2,812	£3,254	£1,935	£2,200	£14,248	£18,161	45
	2.000 2.750	00.700	£1,958	04.000	£1,428	640,000	£9,408	24
3	3,000 - 3,750	£2,702	£3,359	£1,800	£2,323	£12,868	£14,851	21
	41 0.750	00.500	£2,353	04.774	£1,659	040.000	£11,118	4
	Above 3,750	£2,502	£2,657	£1,774	£1,871	£13,886	£16,750	
	Whole Sample	62.026	£2,327	62.446	£1,629	044400	£9,451	154
	All GIFA Bands	£3,038	£3,676	£2,148	£2,578	£14,189	£17,283	454

Key Definitions

Re-Build & Extension

Any project where over 50% of the works being undertaken are new build, where the site used is adjacent to or the same as the existing site. using regional location factors published by BCIS to accord with the UK Including new build blocks, extensions to existing buildings and rebuilds Mean 100. Index taken at March 2019. which include elements of demolition.

Location Factor

All costs have been normalised to a common UK average price level

Inflation

All costs have been updated to the latest Building Cost Information Service (BCIS) ALL-IN Tender Price Index (TPI) of 1st Quarter 2018 of 317. Index taken from March 2019 data forecasts. This adjusts costs for inflation. VAT is excluded throughout.

Further definitions of key terms and footnotes outlining how the data has been treated can be found on page 31.

















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Part Two | Primary Schools

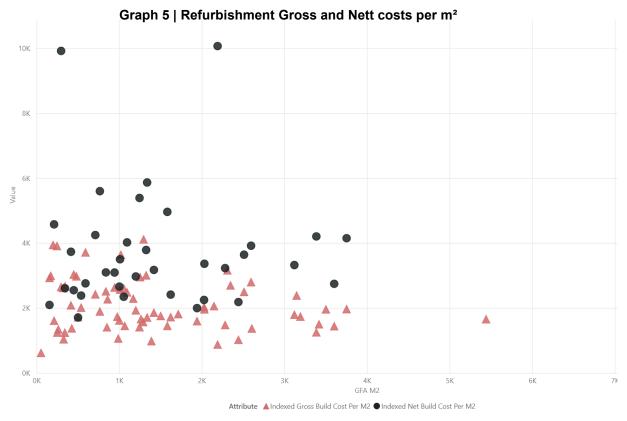
Refurbishment Summary

Refurbishment projects vary considerably in nature which makes trends and benchmarking difficult. We have split these schemes into three types of refurbishment project, namely light, medium and heavy to try and limit the variations.

In total, 63 refurbishment projects were submitted to the study, Graph 5 (right) displays the gross costs per m² for these projects. A detailed breakdown is shown on page 16.

Full definitions of light, medium and heavy refurbishment used for this study can be found on page 31.





Wilson Primary School, Reading Borough Council

1,480m² 6.25m² average floor area

average GIFA per pupil place average contract period

36wks £2,132 £11,885

average cost per pupil place

Key Definitions Refurbishment

Any project which contains significant alterations or less than 50% new build to existing buildings. The works are further categorised as light, medium and heavy refurbishment. See further definitions for these levels Mean 100. Index taken at March 2019. on page 29.

Location Factor

All costs have been normalised to a common UK average price level using regional location factors published by BCIS to accord with the UK

Inflation

All costs have been updated to the latest Building Cost Information Service (BCIS) ALL-IN Tender Price Index (TPI) of 1st Quarter 2018 of 317. Index taken from March 2019 data forecasts. This adjusts costs for inflation. VAT is excluded throughout.

Further definitions of key terms and footnotes outlining how the data has been treated can be found on page 31.

















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Part Two | Primary Schools

Refurbishment Summary

A detailed breakdown of average costs by GIFA bands is shown in the table below.

Some key analysis from this data set is summarised below:

This study has demonstrated that heavy refurbishment projects which typically extend the economic life of a building by approximately 15 - 25 years, have an average gross cost per m^2 of £3,113, this compares favourably with a cost per m2 of £3,411 for an equivalent demolition and new build solution. The heavy refurbishment costs represents a 24% increase when compared to a sample of equivalent medium refurbishment projects, typically refurbishment will increase the economic life of a building by up to 15 years for Medium refurbishment and by upto 25 years for heavy refurbishment. Given that heavy refurbishment projects include significant structural alterations and may also include the replacement of facades and roof finishes, this additional cost would be expected. The above is indicative as the majority of the sample (42 in number) comprise medium refurbishment projects. The sample of heavy and light refurbishment projects is 7 and 5 projects respectively.

Projects within the dataset vary considerably, as is the nature of refurbishment schemes and therefore it is difficult to draw any firm trends across the sample.

	Figure 5 Refurb	ishment Av	erage Cost Summar	у					
		Gros	s Cost per m²	Nett	t Cost per m²	Cost P	Cost Per Pupil Place		
-	GIFA (m²)	Average	20th Percentile	Average	20th Percentile	Average	20th Percentile	Sample Size	
ٔ		Average	80th Percentile	Average	80th Percentile	Average	80th Percentile	0.20	
	0 - 750	00.074	£1,622			040.667	£5,944	27	
	0 - 750	£2,374	£2,978			£10,667	£13,850	27	
١.	750 - 1,500	£2,026	£1,461				£5,701	21	
	730 - 1,300	£2,020 £2,299			£10,365	£15,415			
	1,500 - 2,250	£1,681	£1,032	7		£13,393	£9,721	6	
	1,300 - 2,230	£1,001	£2,070	Not I	Benchmarked	£13,393	£19,041		
	2,250 - 3,000	£1,994	£1,356	NOU	Delicililarkeu	£19,216	£6,415	5	
	2,230 - 3,000	1,994	£2,800			£19,210	£24,069	٥	
	3,000 - 3,750	£1,652			£16,657	£10,890	1		
	3,000 - 3,730	£1,905	£2,140		£10,057	£21,187	4		
	Whole Sample	+2132	£1,433			£11,885	£6,089	63	
	All GIFA Bands		£2,768				£16,270		

Key Definitions

Refurbishment

Any project which contains significant alterations or less than 50% new build to existing buildings. The works are further categorised as light, medium and heavy refurbishment. See further definitions for these levels on page 29.

Location Factor

All costs have been normalised to a common UK average price level using regional location factors published by BCIS to accord with the UK Mean 100. Index taken at March 2019.

Further definitions of key terms and footnotes outlining how the data has been treated can be found on page 31.

Inflation

All costs have been updated to the latest Building Cost Information Service (BCIS) ALL-IN Tender Price Index (TPI) of 1st Quarter 2018 of 317. Index taken from March 2019 data forecasts. This adjusts costs for inflation. VAT is excluded throughout.

















Part Three Secondary Schools



Robert Mays School, Hampshire County Counc

















Part Three | Secondary Schools

Overview

The secondary school sample consists of 169 projects which are split into three school categories as shown in the pie chart (right). This sample features projects from 2012 to 2018 with a total combined capital value of £2.29 billion, comprising:

- ◆ 20 New Development projects (3 All Through schools)
- ◆ 147 Re-Build & Extension projects (7 All Through schools)
- 2 Refurbishment projects

169 secondary schools

The majority of the secondary school sample consists of Re-Build & Extension projects, demonstrating that Local Authorities are starting to expand existing school sites to meet the considerable forecast demand for pupil places. The sample has seen a 53% increase in schemes since last year.

The majority of schemes are procured via a framework arrangement, be that at a national, regional or local level. It has not been possible to draw sufficient trends relating to the cost benefits of the different procurement routes due to the significant variations in the framework arrangements.

Over the next pages, further commentary is provided for each project category which details cost variations and observations on drivers for costs between

projects.

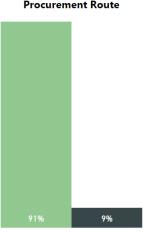
A small sample of New Development and Refurbishment projects has been obtained. It is not possible to draw any conclusions or provide further commentary, but this information is given to show the emergence of the sample.

158,000 secondary places provided

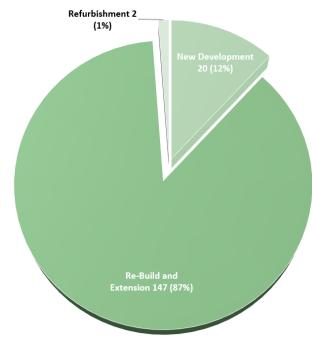
£2.29 billion

capital value of secondary school sample

Procurement Route









Starbank All Through School, Birmingham City Council









● Framework ● Other









Part Three | Secondary Schools Annual Cost Trajectory

Secondary school gross costs as a whole sample have decreased over the last two years. This has been driven by the small data sets available within the study for New Development and Refurbishment Projects. This study has demonstrated a number of reasons for the fluctuations evidenced in the cost trajectory over the last five years (Graph 6, right) which are outlined below.

New Development

A small sample of New Development projects has been obtained. It is not possible to draw any conclusions or provide further commentary, but this information is given to show the emergence of the sample.

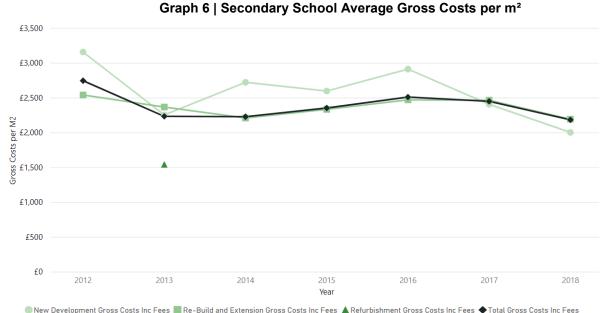
Re-Build & Extension

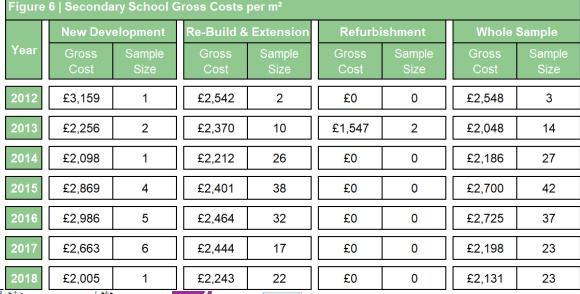
Extensions to existing school sites, new teaching blocks and re-built schools on existing sites have seen a steady decrease in gross costs over the last 24 months shown. It should be noted that the sample size for 2012 is small and therefore greater certainty can be placed in the 2013 - 2016 trajectory, which saw a 3.97% increase in gross costs. The overall trend from 2016 has been downwards with a reduction of 8.97% between 2016 and 2018.

Refurbishment

A small sample of Refurbishment projects has been obtained. It is not possible to draw any conclusions or provide further commentary.

Figure 6 (right) displays the average costs per year alongside the number of projects in each year. It should be noted that the secondary school sample for New Development and Refurbishment is small and therefore average costs displayed are indicative only.





















Part Three | Secondary Schools | Re-Build & Extension Summary

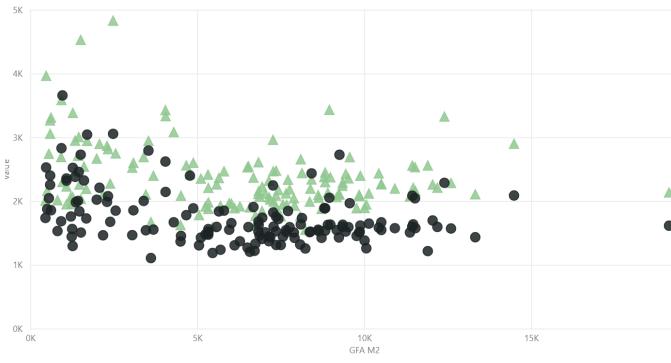
Re-Build & Extension projects are formed from a combination of new blocks, extensions to existing schools and re-build projects on the existing site. In most cases there are elements of demolition and some projects include refurbishment work to existing buildings.

In total, 147 Re-Build & Extension projects were submitted to the study, Graph 8 (right) displays the gross and nett costs per m² for these projects. A detailed breakdown is shown on page 21.



Branston Road High School, Staffordshire County Counci

Graph 8 | Re-Build & Extension Gross & Nett Costs per m²



Attribute ▲ Indexed Gross Build Cost Per M2 ● Indexed Net Build Cost Per M2

6,255m² 6.74m²

average GIFA per pupil place

£2,363 £1,751

Key Definitions

Re-Build & Extension

ncluding new build blocks, extensions to existing buildings and rebuilds Mean 100. Index taken at March 2019.

Location Factor

All costs have been normalised to a common UK average price level using regional location factors published by BCIS to accord with the UK

Inflation

All costs have been updated to the latest Building Cost Information Service (BCIS) ALL-IN Tender Price Index (TPI) of 1st Quarter 2018 of

Further definitions of key terms and footnotes outlining how the data has been treated can be found on page 31.

















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Part Three | Secondary Schools Re-Build & Extension Summary

A detailed breakdown of average costs by GIFA bands is shown in the table

Some key analysis from this data set is summarised below:

Procurement

The study has demonstrated that the majority of local authority Re-Build & Extension projects are procured via two stage open book tendering. DfE projects are let via an DfE procurement process.

Infrastructure

Due to the nature of Re-Build & Extension projects, where the existing site is maintained, the costs associated with infrastructure are low, representing 15% of the total project cost on average across the sample.

On average the infrastructure cost for a new development is 10% higher than seen throughout an equivalent sample of Re-Build & Extension projects where the existing site is used.

	Gros	s Cost per m²	Nett	Cost per m²	Cost Per Pupil Place		Sample
GIFA (m²)	Average	20th Percentile 80th Percentile	Average	20th Percentile 80th Percentile	Average	20th Percentile 80th Percentile	Size
0 - 2,500	£2,722	£2,074 £3,062	£2,142	£1,690 £2,528	£17,120	£6,502 £24,098	36
2,500 - 5,000	£2,504	£2,504 £2,109 £3,338		£1,548 £2,406	£14,776	£14,389 £23,947	16
5,000 - 7,500	£2,140 £1,908 £2,373		£1,557	£1,322 £1,741	£14,109	£10,821 £17,338	42
7,500 - 10,000	£2,199 £1,953 £2,396		£1,578	£1,452 £1,637	£13,963	£11,942 £16,527	33
10,000 - 12,500	£2,333	£2,125 £2,538	£1,663	£1,553 £1,702	£16,386	£13,742 £16,623	16
12,500 - 15,000	£2,436	£2,184 £2,659	£1,703	£1,494 £1,886	£19,490	£17,267 £22,018	3
15,000 - 17,500				No Data			
Above 17,500	£2,141 Insufficient Data		£1,619	Insufficient Data	£12,956	Insufficient Data	1
Whole Sample All GIFA Bands	£2,363	£1,996 £2.653	£1,751	£1,453 £2.024	£15,239	£10,637 £17,659	147

Key Definitions

Re-Build & Extension

build, where the site used is adjacent to or the same as the existing site. ncluding new build blocks, extensions to existing buildings and rebuilds Mean 100. Index taken at March 2019. which include elements of demolition.

Location Factor

using regional location factors published by BCIS to accord with the UK

All costs have been updated to the latest Building Cost Information Service (BCIS) ALL-IN Tender Price Index (TPI) of 1st Quarter 2018 of

Further definitions of key terms and footnotes outlining how the data has been treated can be found on page 31.

















Part Three | Secondary Schools New Development Refurbishment Summary

A small sample of New Development and Refurbishment projects has been obtained. It is not possible to draw any conclusions or provide further commentary, but this information is given to show the emergence of the sample.

Figure 8 New Deve	igure 8 New Development Average Cost Summary							
	Gros:	s Cost per m²	Nett	Cost per m²	Cost P	er Pupil Place	Sample	
GIFA (m²)	Average	20th Percentile 80th Percentile	Average	20th Percentile 80th Percentile	Average	20th Percentile 80th Percentile	Size	
0 - 2,500	£2,842	£2,623 £3,061	£1,850	£1,811 £1,889	£16,861	£10,633 £23,088	2	
2,500 - 5,000	£2,503	£2,370 £2,636	£1,761	£1,655 £1,867	£17,971	£16,817 £19,124	2	
5,000 - 7,500	£3,019	£2,975 £3,063	£1,824	£1,771 £1,877	£21,709	£21,177 £22,241	2	
7,500 - 10,000	£2,464	£2,050 £2,935	£1,805	£1,563 £2,074	£18,174	£13,687 £22,293	6	
10,000 - 12,500	£2,376	£2,004 £2,795	£1,678	£1,425 £1,938	£16,156	£13,386 £19,583	5	
12,500 - 15,000		No Data						
Whole Sample All GIFA Bands	£2,552	£2,022 £3,063	£1,770	£1,567 £1,933	£17,818	£13,552 £21,999	17	

Figure 9 Whole Sar	mple Avera	ge Cost Summary					
	Gross	s Cost per m²	Nett	Cost per m²	Cost P	er Pupil Place	Sample
GIFA (m²)	Average	20th Percentile 80th Percentile	Average	20th Percentile 80th Percentile	Average	20th Percentile 80th Percentile	Size
0 - 2,500	£2,686	£2,103 £3,091	£2,126	£1,725 £2,476	£15,469	£6,429 £24,470	35
2,500 - 5,000	£2,393	£1,925 £2,737	£1,857	£1,517 £2,191	£15,506	£10,814 £18,951	19
5,000 - 7,500	£2,177	£1,909 £2,453	£1,572	£1,326 £1,754	£14,454	£10,910 £17,821	43
7,500 - 10,000	£2,235	£1,952 £2,438	£1,616	£1,450 £1,790	£14,490	£11,923 £16,650	37
10,000 - 12,500	£2,343	£2,077 £2,563	£1,667	£1,514 £1,910	£16,331	£13,519 £19,315	21
12,500 - 15,000	£2,436	£2,184 £2,659	£1,703	£1,494 £1,886	£19,490	£17,267 £22,018	3
15,000 - 17,500	£2,141	£1,992 £2,696	£1,619	£1,460 £2,016	£12,956	£10,728 £18,333	1
Whole Sample All GIFA Bands	£2,355	£1,992 £2,696	£1,753	£1,460 £2,016	£15,143	£10,728 £18,333	159

Key Definitions New Development & Refurbishment

Location Factor

using regional location factors published by BCIS to accord with the UK

All costs have been updated to the latest Building Cost Information

Further definitions of key terms and footnotes outlining how the data has been treated can be found on page 31.

















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Part Four SEN Schools

Portesbury SEN School, Surrey County Council

















Part Four | SEN Schools

Overview

The SEN school sample consists of 49 projects which are split into three school categories as shown in the pie chart (right). This sample features projects from 2012 to 2018 with a total combined capital value of £316 million, comprising:

- 7 New Development projects.
- 35 Re-Build & Extension projects.
- 7 Refurbishment projects.

49 SEN schools

While significant demand for school capacity is being seen across the country, this increases the need for specialist teaching facilities and therefore Local Authorities are starting to increase the capacity within SEN school stock. This study evidences that the majority of provision is being made within existing schools, namely Re-Build & Extension projects.

The majority of schemes are procured via framework arrangements either at a national, regional or local level. It has not been possible to draw sufficient trends relating to the

cost benefits of these different procurement routes due significant variations in the

framework arrangements.

Over the next pages further commentary is provided for each project category which details cost variations and observations on drivers for costs between projects. A small sample of New Development and Refurbishment projects has been obtained. It is not possible to draw any conclusions or provide further commentary, but this information is given to show the emergence of the

5,500

new SEN places

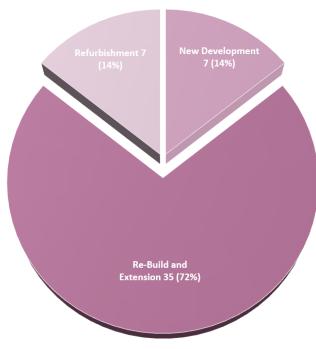
£316 million

capital value of SEN school sample

Procurement Route



















to the







Part Four | SEN Schools

Re-Build & Extension Summary

Re-Build & Extension projects are formed from a combination of new blocks. extensions to existing schools and re-build projects on the existing site. In most cases there are elements of demolition and some projects include refurbishment work to existing buildings.

In total, 35 Re-Build & Extension projects were submitted to the study, Graph 9 (right) displays the gross and nett costs per m² for these projects. A detailed breakdown is shown on page 26.

The sample includes 12 DfE schemes submitted by the DfE, these projects include local authority contributions where applicable.



The Base, Blessed Hugh Farringdon, Reading Borough Council

2K 1 K 0K 1K 2K 5K 7K GFA M2

Graph 9 | Re-Build & Extension Gross & Nett Costs per m²

2,856m² 24m² average floor area

average GIFA per pupil place

£2,821

average nett cost /m2

Attribute ▲Indexed Gross Build Cost Per M2 ●Indexed Net Build Cost Per M2

£2,007 £65,739

Key Definitions

Re-Build & Extension

Location Factor

Any project where over 50% of the works being undertaken are new All costs have been normalised to a common UK average price level build, where the site used is adjacent to or the same as the existing site. using regional location factors published by BCIS to accord with the UK Including new build blocks, extensions to existing buildings and rebuilds Mean 100. Index taken at March 2019 which include elements of demolition.

Inflation

All costs have been updated to the latest Building Cost Information Service (BCIS) ALL-IN Tender Price Index (TPI) of 1st Quarter 2018 of 317. Index taken from March 2019 data forecasts. This adjusts costs for inflation. VAT is excluded throughout.

Further definitions of key terms and footnotes outlining how the data has been treated can be found on page 31.

















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Part Four | SEN Schools

Re-Build & Extension Summary

A detailed breakdown of average costs by GIFA bands is shown in the table below.

Figure 10 Rebi	uild & Exter	nsion Average Cost	Summary				
	Gross	s Cost per m²	Nett	Cost per m²	Cost F	er Pupil Place	Communic
GIFA (m²)	Avorago	20th Percentile	Average	20th Percentile	Avorago	20th Percentile	Sample Size
	Average	80th Percentile	Average	80th Percentile	Average	80th Percentile	Olze
0. 750	CO 0C4	£2,487	C2 407	£2,029	022.050	£1,912	3
0 - 750	£2,861	£3,320	£2,497	£2,999	£23,058	£40,051	<u> </u>
750 4 500	00.745	£3,389	00.000	£2,142	050.044	£43,639	
750 - 1,500	£3,715	£4,129	£2,396	£2,720	£56,041	£65,330	4
4.500.0050	00.000	£2,461	00.040	£1,892	070.000	£42,992	
1,500 - 2,250	£3,068	£2,957	£2,218	£2,476	£76,698	£88,441	6
0.050 0.000	00.440	£2,044	04.704	£1,461	000 000	£56,685	
2,250 - 3,000	£2,442	£2,628	£1,721	£1,902	£62,202	£68,989	9
2 222 2 752	00.054	£2,396	04.005	£1,662	057.070	£48,528	
3,000 - 3,750	£2,954	£3,512	£1,965	£2,269	£57,872	£67,215	2
0 0.750	00.007	£2,610	04.050	£1,967	070.054	£73,889	44
Over 3,750	£2,637	£4,147	£1,858	£2,649	£79,251	£112,029	11
Whole Sample	62 024	£2,068	62 007	£1,483	CCE 720	£42,854	35
All GIFA Bands	£2,821	£3,468	£2,007	£2,553	£65,739	£80,466	

Key Definitions

Re-Build & Extension

Any project where over 50% of the works being undertaken are new build, where the site used is adjacent to or the same as the existing site. using regional location factors published by BCIS to accord with the UK Including new build blocks, extensions to existing buildings and rebuilds Mean 100. Index taken at March 2019. which include elements of demolition.

Location Factor

All costs have been normalised to a common UK average price level

Further definitions of key terms and footnotes outlining how the data has been treated can be found on page 31.

Inflation

All costs have been updated to the latest Building Cost Information 317. Index taken from March 2019 data forecasts. This adjusts costs for inflation. VAT is excluded throughout.

















Part Four | SEN Schools

New Development & Refurbishment Summary

A small sample of New Development and Refurbishment projects has been obtained. It is not possible to draw any conclusions or provide further commentary, at this stage.

Figure 11 New	Developme	velopment Average Cost Summary							
	Gross	s Cost per m²	Nett	Cost per m²	Cost P	er Pupil Place			
GIFA (m²)	Average	20th Percentile 80th Percentile	Average	20th Percentile 80th Percentile	Average	20th Percentile 80th Percentile	Sample Size		
0 - 750	£2,925	£2,925 £2,925	£2,086	£2,086 £2,086	£64,354	£64,354 £64,354	1		
750 - 1,500				No Data					
1,500 - 2,250		No Data							
2,250 - 3,000	£2,202	£2,158 £2,247	£1,536	£1,501 £1,572	£66,441	£62,785 £70,097	2		
3,000 - 3,750				No Data					
Over 3,750	£2,741	£2,435 £3,048	£2,026	£1,919 £2,150	£98,518	£55,389 £129,022	4		
Whole Sample All GIFA Bands	£2,613	£2,158 £2,903	£1,895	£1,629 £2,105	£84,473	£57,530 £76,174	7		

Figure 12 Refu	rbishment	Average Cost Sum	mary		
	Gross	s Cost per m²	Cost P	er Pupil Place	Sample
GIFA (m²)	Average	20th Percentile 80th Percentile	Average	20th Percentile 80th Percentile	Size
0 - 750	£628	Insufficient Data	£2,530	Insufficient Data	1
750 - 1,500	£1,911	£1,582 £2,211	£39,529	£25,559 £51,194	3
1,500 - 2,250	£1,824	Insufficient Data	£31,695	Insufficient Data	1
2,250 - 3000	£1,977	Insufficient Data	£35,941	Insufficient Data	1
Other	£1,666	Insufficient Data	£109,375	Insufficient Data	1
Whole Sample All GIFA Bands	£1,690	£1,501 £1,946	£42,590	£24,742 £60,508	7

Key Definitions

New Development & Refurbishment
Category definitions can be found on page 31.

Location Factor

All costs have been normalised to a common UK average price level using regional location factors published by BCIS to accord with the UK Mean 100. Index taken at March 2019.

Inflation

All costs have been updated to the latest Building Cost Information Service (BCIS) ALL-IN Tender Price Index (TPI) of 1st Quarter 2018 of 317. Index taken from March 2019 data forecasts. This adjusts costs for inflation. VAT is excluded throughout.

Further definitions of key terms and footnotes outlining how the data has been treated can be found on page 31.

















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Further Information



















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Part Five | Further Information

Future Publications

We are keen to receive projects for our next publication planned for February 2020 and welcome project submissions from any Local Authority in the United Kingdom.

Participating Authorities will be listed in the published report (see page 5), however any data supplied will be treated as commercially confidential and will not be shared with third parties without the submitting Authority providing written approval and / or written acknowledgement. All data submitted remains the property of the submitting Authority.

We are keen to obtain further Primary, Secondary and SEN school cost data in particular. All submissions must use our standard form of cost analysis. For further information or to register your interest for the next study please contact Peter Robinson using the details found at the





Summary of Publications

Report

April 2013*

November 2013

June 2014

January 2015

February 2016

February 2017

February 2018

March 2019

Images | Current & Previous Reports

Contributing

Authorities

42

63

108

126

140

|--|

















Sample

Size

45

39

70

122

343

546

660

845



Sample Type

Primary & Secondary

Primary

Primary Primary & Secondary

Primary, Secondary & SEN

Primary, Secondary & SEN

Primary, Secondary & SEN

Primary, Secondary & SEN

National Cost Benchmarking

November 2013

National School Projects

Data Collection Summar

National School Delivery Cost Benchmarking | Primary, Secondary & SEN Schools Regional Snapshot for Primary Schools

Part Five | Further Information

Definitions of Kev Terms

Key terms used throughout this publication and an outline of how data has been adjusted for inflation and regional cost variations are defined here.

New Development

Any project where 100% of the works being undertaken are new build and the site used is a greenfield site. Includes significant infrastructure and external works.

Re-Build & Extension

Any project where over 50% of the works being undertaken are new build, where the site used is adjacent to or the same as the existing site. Including new build blocks, extensions to existing buildings and rebuilds which include elements of demolition.

Refurbishment

Any project which contains significant alterations or less than 50% new build to existing buildings. The works are further categorised as light, medium and heavy refurbishment. See further definitions for these

Refurbishment Level - Light Refurbishment

Investment focused on common areas and essential repairs only. Extension of economic life is approximately 5 years. Works include strip out of existing space, shell and core refurbishment including cosmetic upgrades. Assumes existing main plant, existing floors and ceilings are retained.

Refurbishment Level - Medium Refurbishment

Investment involves full upgrade of the existing building services and finishes but stops short of major structural alterations. Extension of economic life is approximately 15 years. Works include strip out of existing space, shell and core refurbishment including cosmetic upgrades. No major structural or substructural alterations. Existing floors and ceilings are retained and minor repairs only to facade.

Refurbishment Level - Heavy Refurbishment

Investment includes significant structural alterations and may also include the replacement of facades and roof finishes. The complete renewal of internal fittings, finishes and MEP systems. The building is typically unoccupied. Extension of economic life is approximately 15 - 25 years. Works include strip out of existing space, shell and core refurbishment including cosmetic upgrades. Replacement to raised floors, ceilings and new services.

Spatial Measures (GIFA)

Encompass the most common formats used by clients and industry to benchmark total construction costs, which in the case of schools has been taken as £/m² of the Gross Internal Floor Area (GIFA). This is related to throughout and is the total m² of accommodation delivered by a project. For Refurbishment projects the GIFA refers to the percentage of new build floor area only.

Total Project Cost

Represents the overall project cost at tender stage, inclusive of fees, external works, abnormal costs, including minor building works and fittings and fixtures. It is inclusive of additions for preliminaries, contingency, overheads and profit.

Nett Cost per m²

Represents the tendered cost per m² of GIFA, exclusive of fees, abnormals, external works, minor building works and alterations. It is inclusive of additions for preliminaries, contingency, overheads and profit. Fixed fittings and furnishings are included.

Gross Cost per m²

Represents the tendered Total Project Cost per m² of GIFA.

Cost Per Pupil Place

Represents the Total Project Cost, divided by the number of additional pupil places being created by the works in the school. Where this data has not been available for refurbishment projects, the Total Project Cost has been divided by the total number of pupils in the school.

20th and 80th Percentiles

The 20th percentile is the value below which 20% of the observations may be found, while the 80th percentile is the value below which 80% are found.

Abnormals

These encompass substructure cost above normalised base cost and demolitions. The normalised base cost for substructures used was £120 per m² of GIFA. This value has been derived using the worked example for calculating substructure abnormals published by the former Department for Education and Employment (DFEE) within their document entitled "Education Building Projects: Information on Costs and Performance Data". This calculation used within this report recognises the impact of timing (tender factor), location and size of projects.

Fees

All professional (client) fee costs have been included where provided within the sample data. These fees include project management, cost management and other professional services associated to the project. In house architectural service fees are also included where applicable. If fee information was not available a standardised professional fee allowance of 12% has been included on all projects where the unadjusted tendered Contract Sum is £10m or less. A standardised professional fee allowance of 10% has been included on all projects where the unadjusted Contract Sum is in excess of £10m. A professional (client) fee of 3% has been applied to all centrally funded projects submitted by the DfE as agreed with the DfE.

Excluded Cost Elements

Statutory fees, survey costs, loose furniture and equipment, client department costs including programme management, legal and land acquisition costs are excluded from all figures shown herein.

Preliminaries, Contingency, Overheads & Profit

Included in all figures herein as a percentage cost of GIFA. In the case of Refurbishment projects the GIFA refers to the percentage of new build floor area only.

Location Factor

All costs have been normalised to a common UK average price level using regional location factors published by BCIS to accord with the UK Mean 100. Index taken at March 2019.

Inflation

All costs have been updated to the latest Building Cost Information Service (BCIS) ALL-IN Tender Price of Index (TPI) of 1st Quarter 2018 of 317 Index taken at March 2019. This adjusts costs for inflation. VAT is excluded throughout.

Please Note

All cost data contained within this report relates to Tender Stage (Gateway 3, Contract Let) costs, unless otherwise identified as Outturn figures.

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Part Five | Further Information

Publication Contacts

For further information relating to this study or for details regarding future publications and how to participate please contact the individuals below.

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Peter Robinson | Study Lead Officer

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Mike Raven | Study Co-Ordinating Officer

Interim Principal Project Manager East Riding of Yorkshire Council michael.raven@eastriding.gov.uk

For Quantity Surveying queries relating to costs, formulas used, the standard cost form and rationale please contact the individuals below.

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Pete Skinner

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