

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



May 2021

Version 12

Mill Chase Secondary School Academy, Hampshire Council













National

Association Construction

rameworks



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Part One | Report Context

Contents

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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Property Services



Wyton Primary School, Cambridgeshire County Council

1008 projects submitted

1





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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 1008 projects from across England, consisting of:

- 690 primary school projects
- 205 secondary school projects
- 12 All-Through school projects
- 63 SEN school projects
- 38 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. in order to compare projects with each other on level terms.







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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

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The July 2020 quarterly briefing from the Royal Institution of Chartered Surveyors (RICS) Building Cost Information Service (BCIS) have recently advised that they anticipate construction output to rise by 16% over the next five years, with construction costs rising by 17% and tender prices increasing by 21%.

384,000

school places £5.57 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 Bath & North East Somerset Council **Birmingham City Council** Bolton Metropolitan Borough Council Bracknell Forest Council Bradford Metropolitan District Council Brighton & Hove 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 East Council (Unitary) 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 Harrow 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 Bexley London Borough of Brent London Borough of Bromley London Borough of Camden London Borough of Croydon 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 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 Metropolitan 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 & Cleveland Council

Reigate and Banstead Borough Council Rotherham Metropolitan Borough Council Roval Borough of Greenwich Royal Borough of Kensington and Chelsea Royal Borough of Windsor and Maidenhead Rutland County Council 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 South Lakeland District Council South Tyneside 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 Taunton Deane Thanet District Council Thurrock Council **Torbay Council** Trafford Metropolitan Borough Council Tunbridge Wells Borough Council Wakefield Metropolitan Borough Council Wakefield Metropolitan District Council Walsall Warrington Borough Council Warwickshire County Council West Berkshire Council West Sussex County Council

Wigan Metropolitan Borough Council Wiltshire Council (Unitary) Wirral Council Woking Borough Council Wokingham Borough Council Wolverhampton City Council Worcestershire County Council Worthing Borough Council

> **Local Authority Areas** covered across England







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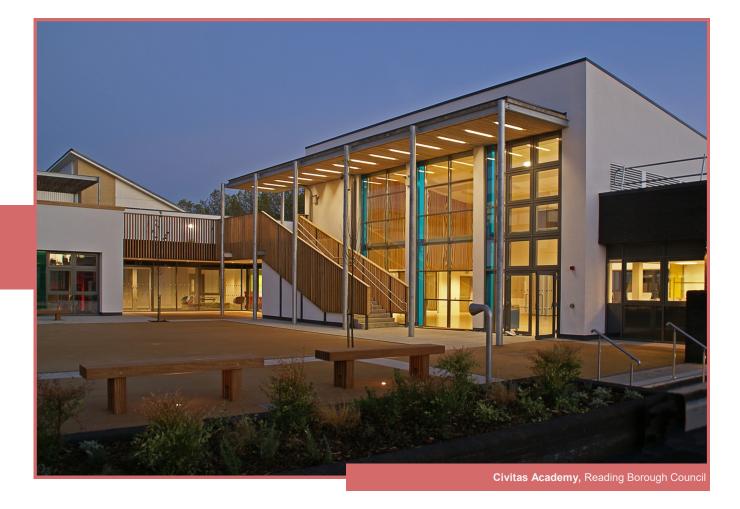
Local Infrastructure Government and Projects Authority Association





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Part Two Primary Schools





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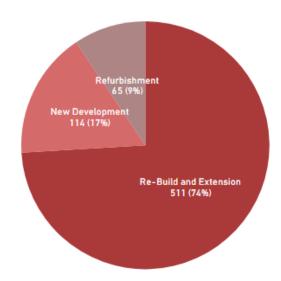
Part Two | Primary Schools Overview

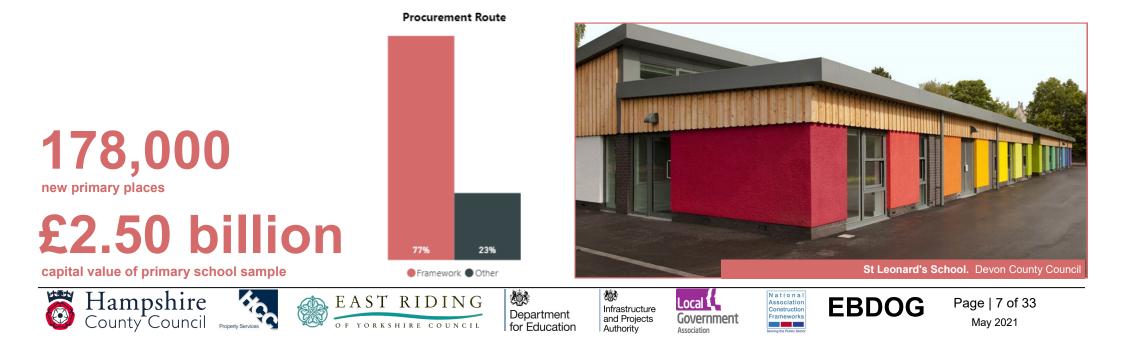
The primary school sample consists of 690 projects which are split into three school categories as shown in the pie chart (right). This sample features projects from 2012 to 2019 with a total combined capital value of £2.50 billion, comprising:

- 114 New Development projects
- ◆ 511 Re-Build & Extension projects
- ♦ 65 Refurbishment projects



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 20% 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.





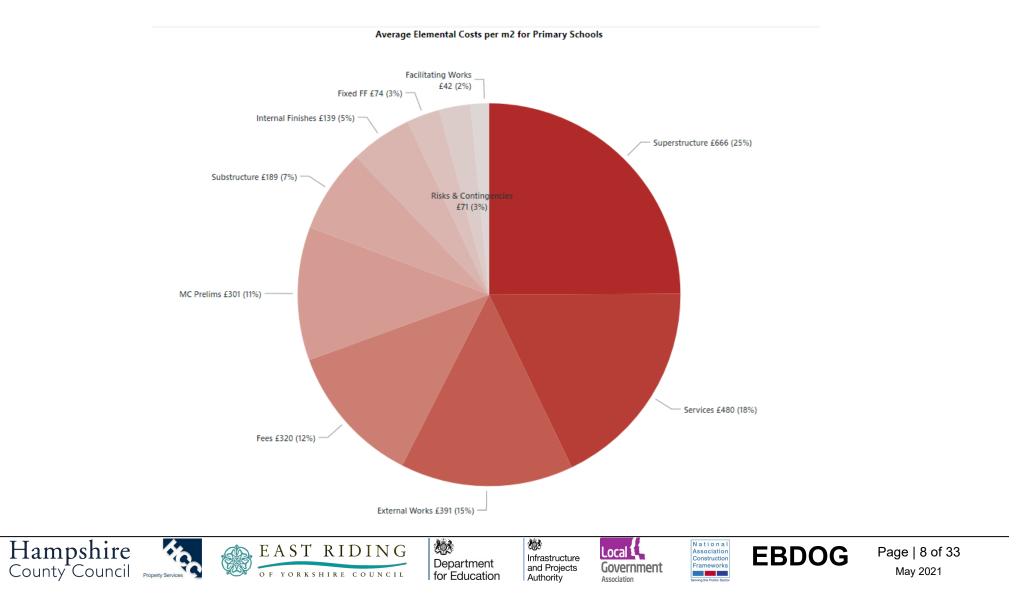
Project Categories

Part Two | Primary Schools 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 Alternative Delivery Model Cost Trajectory

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

Graph 2 (right) displays a cost trajectory for the DfE projects alongside those from Local Authorities. The total sample size has continued to increase year on year with 8 years of data now available. The graph illustrates that gross costs differences between DfE and Local Authority projects have been narrowing over time. The difference between the Local Authority and DfE figures over the last 4 years have reduced to an average of 11.8%, in comparison to the first 4 years of the study where the average difference was 29.9%. Over the duration of the study the difference between the Local Authority and DfE costs has reduced by just over half. 2018 did see the difference widen slightly in that one year but the 2019 data indicates it reducing again to around 9.4%. The DfE sample size is extremely small for 2019 and so, at this stage, this figure cannot be relied upon.

There are a number of factors influencing the lower costs of DfE projects including projects being generally larger, benefitting from economies of scale and batching into programmes of work.

Early indications from the data suggest that market costs are rising in 2019 but future data in the next annual report will better assess if this trend is confirmed. The impact of the pandemic on procurement and delivery has not yet fed through to the data as project costs are reported on completion.

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



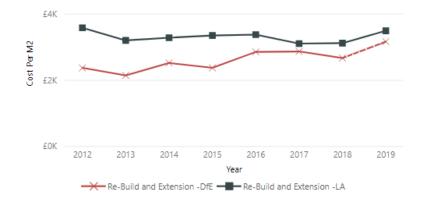


Figure 2 F	rimary Sch	ool Costs -	Re-Build an	d Extension					
	Gross Costs per m ²								
Year	Local A	uthority	D	fE					
	Average	Sample Size	Average	Sample Size					
2012	£3,574	27	£2,363	2					
2013	£3,194	62	£2,136	10					
2014	£3,276	80	£2,512	33					
2015	£3,342	70	£2,364	36					
2016	£3,368	55	£2,847	27					
2017	£3,097	48	£2,859	6					
2018	£3,112	27	£2,661	12					
2019	£3,484	14	£3,157	2					







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Part Two | Primary Schools Annual Cost Trajectory

Primary school gross costs as a whole sample have increased by 1.5% since 2012, after indexing. The sample size of projects has

increased from the 2019 data capture increasing the level of confidence to the figures. The graph indicates that 2017 represented the lowest point of the gross costs trends which has since increased slightly in 2019 and 2020. There are a number of reasons for the fluctuations evidenced in the cost trajectory over the last eight 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 2017, although there was a spike in costs in 2016. The costs since 2018 have shown an increase of 4.9%. Overall in the last eight years costs have reduced by 23.7%. 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.

Re-Build & Extension

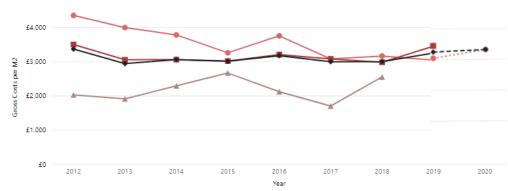
Extensions to existing school buildings, new teaching blocks and

re-built schools on existing sites have seen a downward trajectory for cost up to 2018. The costs since 2018 have shown an increase of 15.8% (no data available for 2020) Overall in the last eight years costs have decreased by 1.3%. 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 no projects being submitted for 2019 & 2020, there is a lower level of confidence in the data.

Figure 1 (right) displays the average costs per year alongside the number of projects in each year banding.



Graph 1 | Primary School Average Gross Costs per m²

New Development Gross Costs Inc Fees Re-Build and Extension Gross Costs Inc Fees A Refurbishment Gross Costs Inc Fees Total Gross Costs Inc Fee

Figure 1	Primary So	chool Gross	Costs pe	r m²					
	New Dev	velopment	Re-Build	& Extension	Refurbi	ishment	Whole Sample		
Year	Gross Cost	Sample Size	Gross Sample Cost Size		Gross Cost	Sample Size	Gross Cost	Sample Size	
2012	£4,341	3	£3,490	29	£2,021	5	£3,360	37	
2013	£3,987	6	£3,047	72	£1,095	14	£2,935	92	
2014	£3,772	13	£3,053	113	£2,284	12	£3,054	138	
2015	£3,250	19	£3,010	106	£2,660	15	£3,005	140	
2016	£3,744	14	£3,197	82	£2,115	10	£3,167	106	
2017	£3,071	25	£3,071	54	£1,696	5	£2,989	84	
2018	£3,156	16	£2,973	39	£2,545	4	£2,994	59	
2019	£3,039	16	£3,444	16	-	-	£3,241	32	
2020	£3,312	2	-	-	-	-	£3,312	2	







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Part Two | Primary Schools **New Development Summary**

Graph 3 | New Development Gross & Nett Costs per m²

New Development projects are new schools built on greenfield sites, which include significant infrastructure and external work costs. There are 114 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.



Stoneham Park Primary Acadamy. Hampshire County Council

1,962m² 5.70m² average floor area

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 2020.

wks

average contract period

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

average GIFA per pupil place







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£3,357

203

average gross cost /m²

Local Government

Inflation



inflation. VAT is excluded throughout.

£2,257

All costs have been updated to the latest Building Cost Information

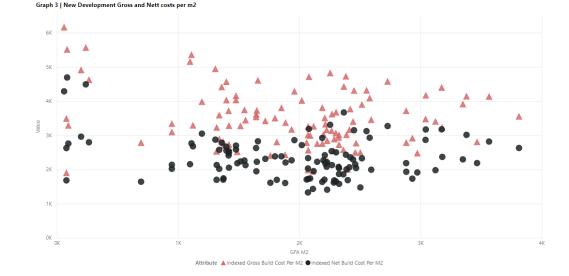
Service (BCIS) ALL-IN Tender Price Index (TPI) of 1st Quarter 2020 of 336. Index taken from April 2020 data forecasts. This adjusts costs for

average nett cost /m²

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£23,886

average cost per pupil place



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.

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	/ Developn	nent Average Co	ost Summar	y				
	Gross	Cost per m ²	Nett C	Cost per m²	Cost Per			
GIFA (m²)	A	20th Percentile	A	20th Percentile	A	20th Percentile	Sample Size	
	Average	80th Percentile	Average	80th Percentile	Average	80th Percentile	Size	
0 4 500	C2 020	£2,840	50.004	£2,143	coo ooc	£15,048		
0 - 1,500	£3,939	£4,928	£2,624	£2,835	£22,226	£28,889	23	
1,500 - 3,000	£3,194	£2,565	£1,728	£25,333	£13,412	52		
1,300 - 3,000	£3, 194	£3,802	£2,174	£2,590	125,333	£26,382	53	
	co. 000	£2,736	00.454	£1,661	000.070	£13,231		
Above 3,000	£3,233	£4,057	£2,151	£2,780	£22,872	£23,703	38	
Whole		£2,726		£1,716		£14,305		
Sample All GIFA Bands	£3,357	£4,138	£2,257	£2,771	£23,886	£26,568	114	

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 using regional location factors published by BCIS to accord with the UK and external works.

Location Factor

All costs have been normalised to a common UK average price level Mean 100. Index taken at March 2020.

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







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All costs have been updated to the latest Building Cost Information Service (BCIS) ALL-IN Tender Price Index (TPI) of 1st Quarter 2020 of 336. Index taken from April 2020 data forecasts. This adjusts costs for inflation. VAT is excluded throughout.





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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, 511 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 128 DfE schemes submitted by the DfE, these projects include local authority contributions where applicable.



Whitehouse Primary School, Suffolk County Council

1,285m² 5.26m²

average floor area

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 2020. which include elements of demolition.

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

average GIFA per pupil place



Hampshire County Council Property Services



Department

for Education

average contract period

Location Factor

30wks £3,099

Infrastructure and Projects Authority

average gross cost /m²

Local L Government Association



Inflation

average nett cost /m²

inflation. VAT is excluded throughout.

EBDOG

£2,110 £17,650

All costs have been updated to the latest Building Cost Information

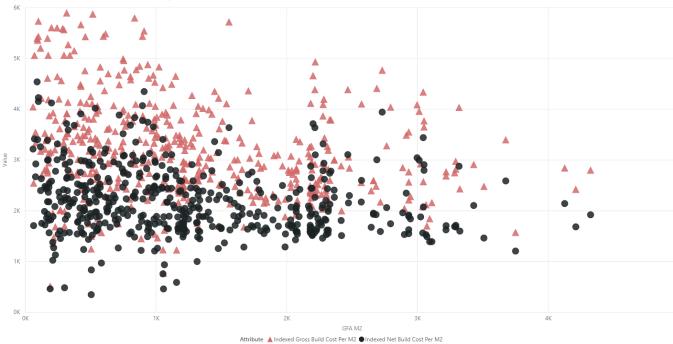
Service (BCIS) ALL-IN Tender Price Index (TPI) of 1st Quarter 2020 of <u>336. Index taken from April 2020 data forecasts</u>. This adjusts costs for

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average cost per pupil place

Graph 4 | Re-Build and Extension Gross and Nett costs per m²

Graph 4 | Re-Build and Extension Gross and Nett costs per m2



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 11% when compared to an equivalent sample of steel frame projects.

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.

Figure 4 Re-l	Build & Ext	ension Average	Cost Sumn	nary			
	Gross	Cost per m ²	Nett C	Cost per m ²	Cost Per	C	
GIFA (m²)	Average	20th Percentile 80th Percentile	Average 20th Percentile 80th Percentile		Average	20th Percentile 80th Percentile	Sample Size
0 - 1,500	£3,351	£2,551 £4,114	£2,245	£1,714 £2,805	£18,056	£10,709 £22,317	303
1,500 - 3,000	£2,748	£2,250 £3,375	£1,956	£1,590 £2,420	£15,844	£11,471 £21,383	126
Above 3,750	£2,707	£1,764 £3,538	£1,848	£1,307 £2,475	£18,925	£8,965 £18,553	83
Whole Sample All GIFA Bands	£3,099	£2,392 £3,911	£2,110	£1,622 £2,669	£17,650	£10,688 £21,705	511

Key Definitions

Re-Build & Extension

All costs have been normalised to a common UK average price level 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 2020. which include elements of demolition.

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









Location Factor

Ŵ Department for Education 203

Authority

Local Infrastructure Government and Projects Association



inflation. VAT is excluded throughout.

Inflation



All costs have been updated to the latest Building Cost Information

Service (BCIS) ALL-IN Tender Price Index (TPI) of 1st Quarter 2020 of 336. Index taken from April 2020 data forecasts. This adjusts costs for

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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, 65 refurbishment projects were submitted to the study, Graph 5 (right) displays the gross and net 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

1,302m²

average floor area

5.99

average GIFA per pupil place

36wks average contract period £2,214 average gross cost /m²

£14,713 average cost per pupil place

inflation. VAT is excluded throughout.

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 2020. on page 31

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









Location Factor

X) Department for Education 203

Authority

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

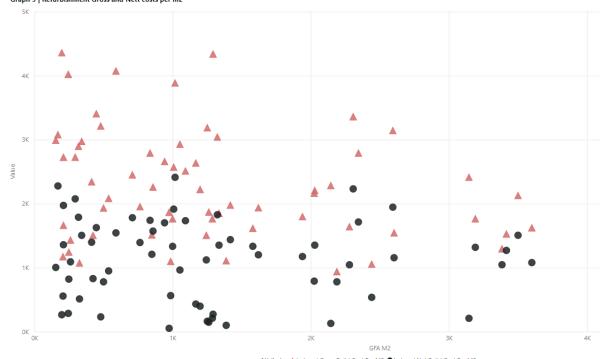
Service (BCIS) ALL-IN Tender Price Index (TPI) of 1st Quarter 2020 of

336. Index taken from April 2020 data forecasts. This adjusts costs for

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Graph 5 | Refurbishment Gross and Net costs per m²

Graph 5 | Refurbishment Gross and Nett costs per m2



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

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 m² of £3,006. This represents a 22.5% increase when compared to a sample of equivalent medium refurbishment projects which typically increase the economic life of a building by up to 15 years. 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 (53 in number) comprise medium refurbishment projects.

The sample of heavy and light refurbishment projects is 8 and 4 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 Refurbishm	_	Cost per m ²		r Pupil Place		
GIFA (m²)	Average	20th Percentile 80th Percentile	Average	20th Percentile 80th Percentile	Sample Size	
0 - 1,500	£2,351	£1,644 £3,011	£13,567	£7,403 £20,294	49	
1,500 - 3,000	£1,789	£1,056 £2,791	£18,676	£8,348 £23,316	11	
3,000 and above	£1,801	£1,456 £2,185	£17,216	£10,460 £21,547	5	
Whole Sample All GIFA Bands	£2,214	£1,511 £2,977	£14,713	£7,983 £21,372	65	

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 31

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







Location Factor

Mean 100. Index taken at March 2020.

Ŵ Department for Education 103

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 2020 of 336. Index taken from April 2020 data forecasts. This adjusts costs for inflation. VAT is excluded throughout.





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Robert Mays School, Hampshire County Council





Department for Education







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Part Three | Secondary Schools Overview

The secondary school sample consists of 217 projects which are split into three school categories as shown in the pie chart (right). This sample features projects from 2012 to 2020 with a total combined capital value of £2.72 billion, comprising:

- 31 New Development projects (4 All Through schools)
- 182 Re-Build & Extension projects (8 All Through schools)
- 4 Refurbishment projects

217 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 27% 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 be-**Procurement Route** tween 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.

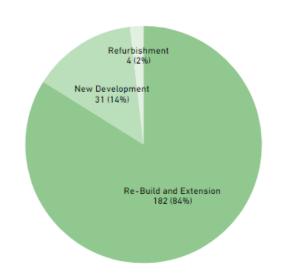
000,000secondary places provided



capital value of secondary school sample







Project Categories



Framework Other

203 Department for Education

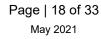
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Authority

Local Infrastructure Government and Projects Association





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 decrease in gross costs in 2018 with a rise in 2019. Costs have reduced from a high in 2012 by 2.4%. It should be noted that the sample size for 2012 is small and therefore greater certainty can be placed in the 2013 - 2019 trajectory, which has seen a 7.7% increase in gross costs. This study has shown a number of factors influencing this trend:

Smaller projects have continued to be procured over the last 12 months, with the average project GIFA over this period being 6,300m². This is considerably smaller than the 7,500m² average GIFA seen prior to 2015, which reduces the cost benefits experienced by larger schemes.

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.

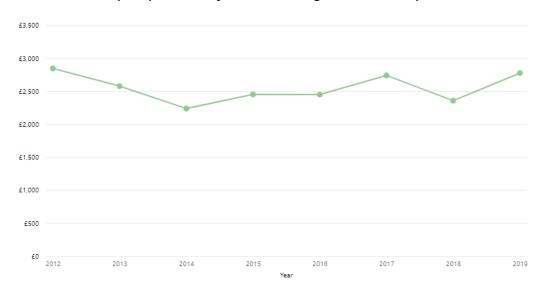


Figure 6	Secondary School Gr	oss Costs per m ²
	Re-Build & E	xtension
Year	Gross Cost	Sample Size
		-
2012	£2,844	2
2013	£2,577	10
2014	£2,237	26
2015	£2,452	38
2016	£2,448	32
2017	£0 720	18
2017	£2,739	10
2018	£2,356	36
2019	£2,775	19
2020	Insufficent Data	1



Hampshire County Council



Department for Education

Infrastructure and Projects Authority Association

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Local Association Government Association



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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, 182 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 break- Graph & J Re-Build & Extension Gross & Nett Costs per m² down is shown on page 21.

The sample includes 124 DfE schemes submitted by the DfE, these projects include local authority contributions where applicable.



Branston Road High School, Staffordshire County Counci

5,594m² 5.95m² average floor area

average GIFA per pupil place

average contract period

average gross cost /m²

Inflation

23wks £2,491 £1,777 £17,321 average nett cost /m²

All costs have been updated to the latest Building Cost Information

336. Index taken from April 2020 data forecasts. This adjusts costs for

average cost per pupil place

Kev Definitions

Re-Build & Extension

ncluding new build blocks, extensions to existing buildings and rebuilds Mean 100. Index taken at March 2020.

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



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

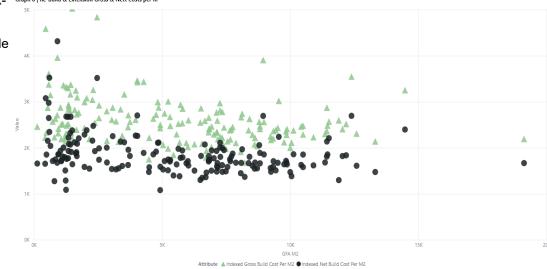






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Graph 8 | Re-Build & Extension Gross & Nett Costs per m²



Part Three | Secondary Schools Re-Build & Extension Summary

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

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.

Figure 7 Re-Build	& Extension A	verage Cost Summ	ary				
	Gross	Cost per m ²	Nett	Cost per m ²	Cost Per		
GIFA (m ²)	Austana	20th Percentile	Average	20th Percentile	Average	20th Percentile	Sample Size
	Average	80th Percentile	Average	80th Percentile	Average	80th Percentile	
Below 5,000	£2,803	£2,315	£1,989	£1,626	£18,697	£3,961	81
Delow 3,000	22,005	£3,243	21,303	£2,266	210,037	£23,522	
5,000 - 10,000	£2,208	£2,034	£1,721	£1,560	£19,398	£15,670	81
5,000 - 10,000	£2,200	£2,596	£1,721	£1,915	£ 19,590	£24,442	
Above 10,000	£2,373	£2,221	£1,580	£1,484	£15,431	£12,710	20
Above 10,000	12,313	£2,572	£1,500	£1,824	£15,451	£18,955	20
Whole Sample	£2,491	£2,181	£1,777	£1,541	£17,321	£9,202	192
All GIFA Bands	£ 2 ,431	£2,873	£1,111	£2,083	£17,5 2 1	£20,989	182

Kev 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 2020. which include elements of demolition.

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







Location Factor

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Inflation

All costs have been updated to the latest Building Cost Information 336. Index taken from April 2020 data forecasts. This adjusts costs for





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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	Figure 8 New Development Average Cost Summary							Figure 9 Who	le Sample	Average Cost Sun	nmary				
	Gross	Cost per m²	Nett	Nett Cost per m ²		r Pupil Place	Somple	Semale		s Cost per m²	Net	t Cost per m²	Cost P	er Pupil Place	C
GIFA (m²)	Average	20th Percentile	Average	20th Percentile	Average	20th Percentile	Sample Size	GIFA (m²)	Average	20th Percentile	Average	20th Percentile	Average	20th Percentile	Sample Size
		80th Percentile		80th Percentile		80th Percentile			7 Workinge	80th Percentile	7 Weitage	80th Percentile	/ Workingo	80th Percentile	
		£2,689		£1,797		£13,522				£2,311		£1,610		£6,322	·
- Below 5,000	£2,739	£3,303	£2,031	£2,529	£32,531	£34,593	12	- Below 5,000	£2,744	£3,226	£1,950	£2,316	£20,302	£26,471	97
										~~,===				~,	
- 5,000 - 10,000	£2,676	£2,303	£1,881	£1,707	£20,622	£17,548	14	- 5.000 - 10.000	£2,277	£2,057	£1,624	£1,487	£16,196	£12,814	95
5,000 - 10,000	~2,010	£3,418	~1,001	£2,363		£27,009		5,000 - 10,000	~2,211	£2,674	~1,024	£1,934	210,150	£20,226	55
- Above 10,000	£2,510	£2,004	£1,799	£1,556	£19,176	£14,766	5	- Above 10,000	£2,400	£2,180	£1,737	£1,560	£19,353	£15,443	25
		£2,934		£2,101		£23,750				£2,633		£2,058		£24,442	
Whole	£2,673	£2,267	£1,926	£1,705	£24,999	£14,584	31	Whole	C2 500	£2,169	C4 702	£1,541	C40 205	£9,930	247
Sample All GIFA Bands	22,013	£3,389	£1,920	£2,445	₹2 4,999	£27,344	31	Sample All GIFA Bands	£2,500	£2,932	£1,783	£2,120	£18,395	£23,215	217

Key Definitions New Development & Refurbishment Category definitions can be found on page

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 2020.

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







Department for Education

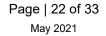




All costs have been updated to the latest Building Cost Information Service (BCIS) ALL-IN Tender Price Index (TPI) of 1st Quarter 2020 of 336. Index taken from April 2020 data forecasts. This adjusts costs for inflation. VAT is excluded throughout.









Part Four SEN Schools

Portesbury SEN School, Surrey County Council





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Part Four | SEN Schools

Overview

The SEN school sample consists of 63 projects which are split into three school categories as shown in the pie chart (right). This sample features projects from 2012 to 2020 with a total combined capital value of £351 million, comprising:

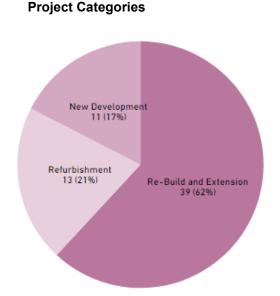
- 11 New Development projects.
- ◆ 39 Re-Build & Extension projects.
- 13 Refurbishment projects.

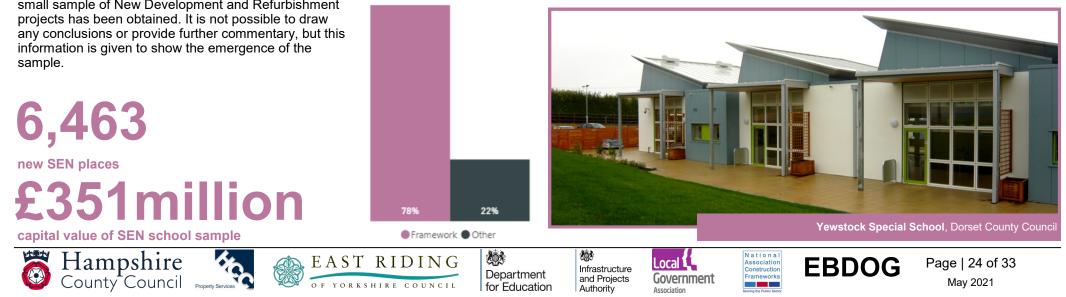
While significant demand for school capacity is being seen across the country, this increases the need for specialist teaching facilities and therefore Local Authorities are starting to increase the capacity within SEN school stock. This study evidences that the majority of provision is being made within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

Procurement Route





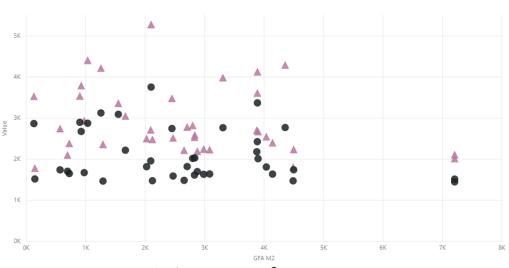
Part Four | SEN Schools Re-Build & Extension Summary

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, 39 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 18 DfE schemes submitted by the DfE, these projects include local authority contributions where applicable.





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

The Base, Blessed Hugh Farringdon, Reading Borough Council

2,634m²

23m²

average GIFA per pupil place

29wks average contract period

Location Factor

£2,834 average gross cost /m² **£2,058** average nett cost /m²

Inflation

£76,184 average cost per pupil place

average floor area Key Definitions

Re-Build & Extension

Any project where over 50% of the works being undertaken are new MI 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 2020.

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



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inflation. VAT is excluded throughout.



All costs have been updated to the latest Building Cost Information

Service (BCIS) ALL-IN Tender Price Index (TPI) of 1st Quarter 2020 of <u>336. Index taken from April 2020 data forecasts</u>. This adjusts costs for

Part Four | SEN Schools

Re-Build & Extension Summary

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

	Gros	s Cost per m²	Net	t Cost per m²	Cost Pe		
GIFA (m²)	A	20th Percentile	A	20th Percentile	A	20th Percentile	Sample Size
	Average	80th Percentile	Average	80th Percentile	Average	80th Percentile	3126
		£2,586		£1,752		£50,088	
Below 2,250	£3,377	£4,047	£2,473	£3,016	£71,839	£104,322	- 13
		~1,011		20,010		2104,022	
2,250 - 3,750	£2,690	£2,232	£1,914	£1,615	£74,862	£62,183	11
2,230 - 3,130	22,050	£2,821	21,314	£2,031	214,002	£87,880	
Above 3,750	£2.470	£1,974	£1,803	£1,473	£80,919	£36,914	- 15
	~2,	£2,886	~1,000	£2,231	~~~~~	£122,600	
Whole	£2,834	£2,227	£2,058	£1,563	676 184	£50,095	39
Sample All GIFA Bands	₹∠ ,034	£3,567	₹2 ,030	£2,770	£76,184	£103,476	39

Key Definitions

Re-Build & Extension

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 2020. which include elements of demolition.

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







Location Factor

鯋 Department for Education

Local Infrastructure Government and Projects Authority Association

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Inflation

All costs have been updated to the latest Building Cost Information Service (BCIS) ALL-IN Tender Price Index (TPI) of 1st Quarter 2020 of 336. Index taken from April 2020 data forecasts. This adjusts costs for inflation. VAT is excluded throughout.





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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 Development Average Cost Summary											
GIFA (m²)	Gross Cost per m ²		Nett Cost per m ²		Cost Per Pupil Place						
	Average	20th Percentile	Average	20th Percentile	Average	20th Percentile	Sample Size				
		80th Percentile		80th Percentile		80th Percentile					
0 - 2,250	£1,761	£1,009	£1,103	£469	£41,411	£21,544	2				
		£2,513		£1,737		£61,278					
2,250 - 3,750	£2,375	£2,303	£1,690	£1,644	£81,965	£77,916	2				
2,230 - 3,130	22,010	£2,446		£1,736		£86,014					
Above 3,750	£2,971	£2,827	£2,152	£1,903	£95,828	£61,452	7				
		£3,169		£2,313		£89,859					
Whole	£2,643	£2,256	£1,877	£1,767	£83,413	£60,132	11				
Sample All GIFA Bands		£3,052		£2,312		£88,713					

Figure 12 Refurbishment Average Cost Summary										
	Gros	s Cost per m²	Cost P	Comula						
GIFA (m²)	Average	20th Percentile	Average	20th Percentile	Sample Size					
		80th Percentile	Average	80th Percentile	0120					
Below 2,250	£1,678	£1,326	£36,623	£22,851	5					
Delow 2,230	21,070	£1,997	230,023	£47,391	3					
2,250 - 3,750	£2,247	£2,247	£46,813	£46,813	1					
2,230 - 3,130	2,241	£2,247	240,015	£46,813	· · ·					
Above 3,750	£1,179	£452	£40.376	£6,323	7					
ADOVE 3,130	21,113	£1,705	240,570	£54,082	'					
Whole	C4 452	£761	C20 429	£8,764	12					
Sample All GIFA Bands	£1,453	£2,090	£39,428	£53,116	13					

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 2020.

Inflation

All costs have been updated to the latest Building Cost Information Service (BCIS) ALL-IN Tender Price Index (TPI) of 1st Quarter 2020 of 336. Index taken from April 2020 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 Five Further Information





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Part Five | Further Information **Future Publications** We are keen to receive projects for our next publication planned for June 2021 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 National Cost Benchmarking National School Projects with third parties without the submitting Authority providing written approval and / or Data Collection Summar written acknowledgement. All data submitted remains the property of the submitting Authority. We are particularly keen to obtain further Primary, Secondary and SEN school cost data. 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 end of this publication. November 2013 ndog January 20 A EAST RIDI? EBDOG Images | Current & Previous Reports All Transform Transform Local C. Ration of Control of C EBDOG EAST RIDING EBDOG une 2019 Summary of Publications 505 EBDOG Hampshire <u>Sample</u> Contributing Sample Type Report **Authorities** Size April 2013* Primary & Secondary 45 _ 39 November 2013 Primary -June 2014 70 Primary Primary & Secondary January 2015 122 42 63 Primary, Secondary & SEN February 2016 343 546 108 Primary, Secondary & SEN February 2017 10 Primary, Secondary & SEN February 2018 660 126 0 (21) 1 Primary, Secondary & SEN March 2019 845 140 Loddiswell Primary School, Devon County Council May 2021 1008 150 Primary, Secondary & SEN **\$\$\$** 203 Hampshire County Council National EAST RIDING **EBDOG** Page | 30 of 33 Local L Association Infrastructure Construction Department Government Frameworks and Projects May 2021 OF YORKSHIRE COUNCIL for Education Authority

Association

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

Definitions of Key Terms **Part Five |** Further Information

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 levels.

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 2020.

Inflation

All costs have been updated to the latest Building Cost Information Service (BCIS) ALL-IN Tender Price of Index (TPI) of 1st Quarter 2020 of 336 Index taken at April 2020. This adjusts costs for inflation. VAT is excluded throughout.

Please Note

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Authority

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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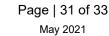




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Part Five | Further Information Publication Contacts

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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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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Wimborne First School, Dorset County Counci







Department for Education







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Department for Education







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