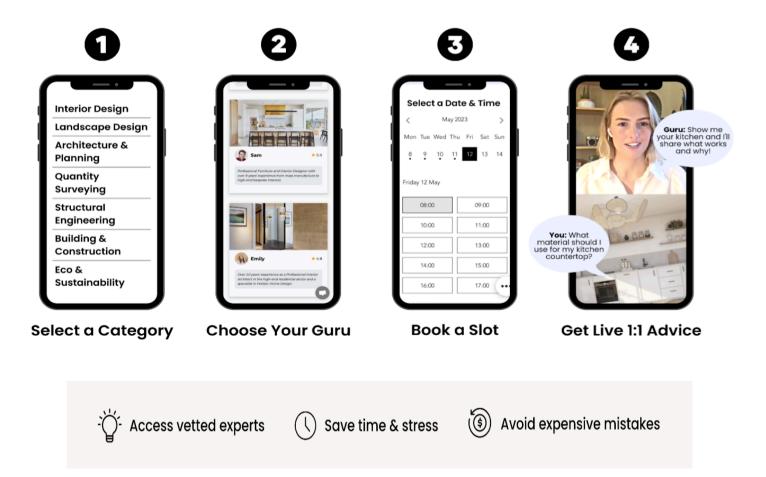


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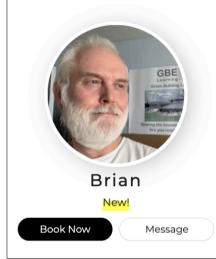
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Award-winning Professional Eco-Home Advisor with over 45 years' experience in Architecture & Construction and over 23 years' experience in Sustainable & Environmental design.

Areas of expertise

- Green construction choices
- Environmental specifications
- Sustainable materials
- Energy, carbon & cost efficiency calculations

Qualifications

 BSc Degree (Hons) & PG Diploma (Distinction) in Architecture from London Metropolitan University — ONC & HNC Construction from Peterborough Regional College

30-Minute Video Chat- Environmental Design &



Construction Advisor

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Brian Murphy

- •
- •
- Technician and Architect by training
- Specification Writer by choice (e.g. British Library)
- Environmentalist by action
- Educator by calling
- Carbon Counter by necessity
- Building Tour Guide for Fun (E.g. British Library)

- •
- •
- •

British Library £511m

1st Freelance commission

Contract Specification writing



8 years^{2020-23 GBC Green BuildingRetroft Calc}

Aberystwyth University Arts centre & Dance School extensions: Specifications



BCT & RSPB RIBA Publishing 1st & 2nd editions **BRM Wrote 50%** of book **10 Future proof** construction methods **3D cutaways 2D Sections Details and Specifications Product Critique**

Biodiversity for Low and Zero Carbon Buildings

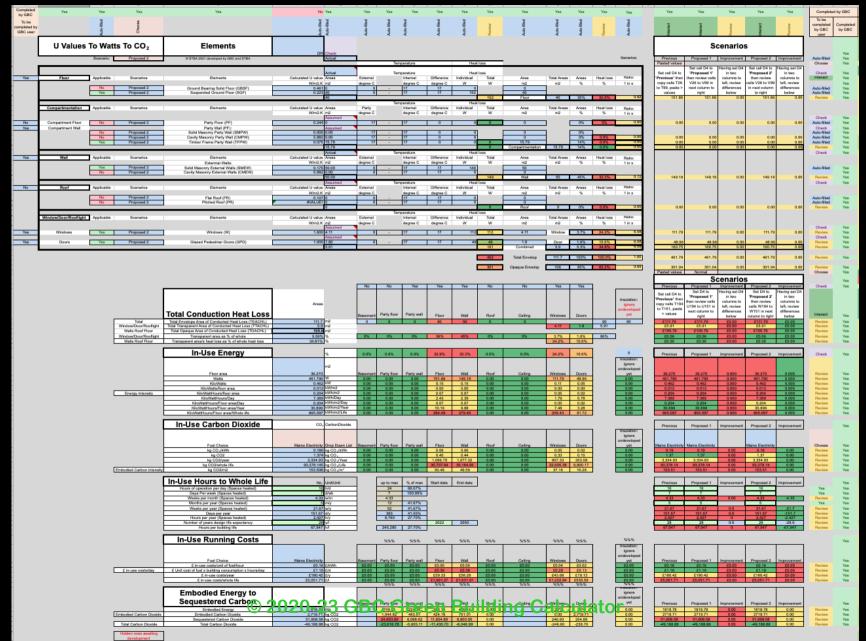
Dr Carol Williams of the Bat Conservation Trust

RIBA # Publishing

Green Apple Award 2020 International Silver for Carbon Reduction



Green Retrofit Calculator







What did you do during COVID?

I combined two whole building calculators

- I made Green Building Calculator
- Working on Green Retrofit Calculator
 - Regen '22 Liverpool)
- Built in Bill of Quantities to carryout:
 - Green cost planning
 - Collecting sub-contract pricing
 - Tenders
 - Intelligent value engineering

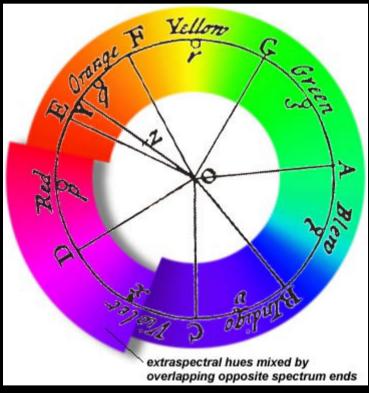




Eco

Green

Sustainable Environmental



© 2020-23 GBC Green Building Calculator

Violet Violent Violate





Materials

- ' ' meaning:
- 'any material, construction product, construction method or building
 - or adjacent materials
- whose performance diminishes in use or over time
- might sum them up but many_© <u>'normal' materials</u> are violet





' Industry

- designers, Quantity Surveyors, contractors, manufacturers, applicators/installers, advisory organisations, manufacturer associations
- anyone that does not care about the environment
- or anyone that does not act on its behalf
- Virtually the whole industry
- It has been changing, slowly driven by legislation
- But far too slowly, until XR, Greta, David A,
- Watch out post-Brexit diminishing legislation
- And a Government that has not got a clue how





Violet Materials

- Non-renewable, finite
 - - Paints
 - Plastics (from hydrocarbons)
- Unsustainable
 - _
- High embodied energy: e.g. energy intensive manufacture
- - _
- Hazardous materials and hazardous waste:
 - resins, paints, sealants, chemicals,
- -Octobell
- Ozone depleting & Global Warming
 - **Aluminium production PFCs**

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Green: Environmentally Sustainable Materials

- Renewable: timber,
- Rapidly renewable: Plant based materials
- Abundant: Site subsoil, rocks, sand, gravel, stone
- Recycled & Recyclable:
 - post consumer content,
- Reclaimed & Reused:
 - on site materials, timber as timber not chipboard
- Carbon already out there:
 - reclaimed bricks, slates, stone
- Carbon sequestration: low, neutral or Carbon negative:
 - Plant and timber based
 - Grown aggregate by carbonation C8Systems
- Low embodied energy: Plant based, minerals
- Local: low transport miles, fuel, emissions and congestion





Deleterious Materials

- materials to builders and occupants and demolition
- materials
- Materials that are incompatible or incompetent within an application
- Materials that are not effective in their role





Healthy Materials

- Low VOC Volatile Organic Compounds:
- No hazardous materials in application and use
- No hazardous waste
- (ignored by BRE GG)
- Low to Zero toxicity
- Good IAQ Indoor air quality – (ignored by BRE GG)





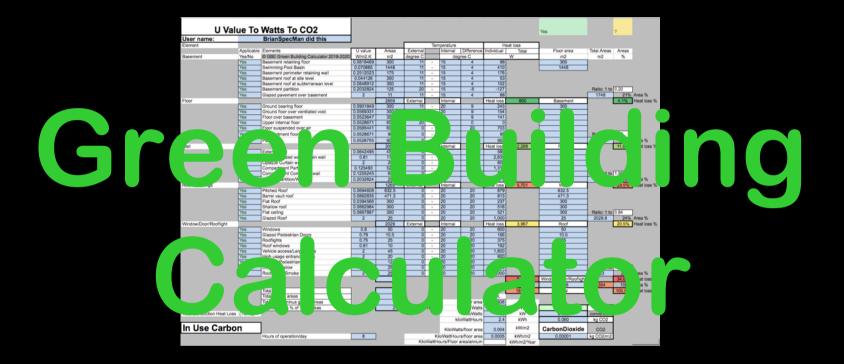
Self-build Self-manage Custom-build











I want.. I want.. I want..

Why did I start making GBC?

- lity Surveyors: to do VE not Cost cutting, WLC not cheap; carbon & costs
- Procurement: to focus on management of competency of end result
- Manufacturers: to provide all important data, multi-functional products
- Environmental Assessors: to guide designers with facts and figures
- Building Designers: to do their own cost planning & technical analysis
- Enable non-BIMers to do BIM app type analysis outside of BIM
- Tenderers: to price a proper job and aim to claim no extras

.

- Advisory Bodies: To be able to give more robust guidance
- decisions

- Evidence Based Design
- Competent as was intended





I want I want I want I am reminded to Be the change you want to see in the world

Mahatma Gandhi









https://GreenBuildingCalculator.uk

GBC V2+GBC V12 Cell colour codes & symbols Excel and BIM

- Was on every page
- Now on it own page
- Updated by GBC B2 Bespoke developments
- Brown not yet deployed

Legend	In Excel	GBC V2	In BIM
Cell colour code/content	Explanation	Examples	
Orange	Row or Column titles	Complete	n/a
Pale Green	Multiple cells require different responses by user	Multiple	
Green	User Input cell, feeds into calculations throughout GBC	Yes	From Bill of Materials
Green with Red text	User input cells with sample entries to populate calculations (replace as required)	0,00	By User if required
Red	User to select option from drop down list GBC will apply choice to calculations	Choose	From Bill of Materials?
Blue	GBC calculated results, applying user inputs in other cells or sheets	0	From Bill of Materials
Brown	GBC delivers results from Look Up Tables triggered by choice from Drop Down Lists		
Turquoise	GBC calculated results, that the user can overwrite. e.g. for variables	0	From Model?
Turquoise with red text	GBC example calculated results, that the user can overwrite. e.g. for variables, can be ow	0	By User if required
Violet	GBC totals up, User to check if correct OR use the information elsewhere in the calculate	Check	By User if required
Yellow	Information to be collected if readily available quickly		n/a
Yes/No	User input cell requiring user choice from drop down list		By User from list
No	Not complete by GBC OR Users to ignore this row's cells. 'No' will turn red automatically		n/a
Review	GBC awaiting information OR User to interrogate this row's cells and review decisions so	far	User to interrogate result
Yes	Started by GBC OR To be completed by Users. 'Yes' will turn Green Automatically		By User if required
%%%	In development incomplete		GBC Aide memoir
	Pending development		GBC Aide memoir
>>>	Date related update		GBC Aide memoir
***	Seperator in Drop Down Lists		GBC Aide memoir
Grey cell no text	Cells not containing calculations nor containing text or other information		





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GBC V2.3 Buildings

Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Auto filled								
	Multiple	Multiple	Multiple	Multiple	Multiple	Multiple	Multiple	Multiple
User name:	Over-type with User name							
	Over-type with Practice name							
Client Name:	Over-type with Client name							
Project Reference:	Over-type with Project reference							
Project name:	Over-type with Project name							
	Over-type with Project address							
	Over-type with Building User Activity or	Purpose						
GBC V2.3 %%%	Schedule of Accommo	dation						
Whole Bu	ilding	No.	No.	m	m	m2	m	m3
	One or many						Internal	
Building(s)		Number of buildings	Number of floors	Internal Length(s)	Internal Width(s)	Floor Area Ceiling Area	Room height	Volumes
	Tall or short	balangs		Congui(s)	widen(s)	Roof Area	(average)	
© GBE Green Building Ca	iculator 2011-2023	1 to 1000	1 to 50	1 to 1000	1 to 1000	1 to 1 million	2.4 to 10	1 to 10 million
Whole Building	All rooms	1	1	7.2	4	29	2.7	78
Terrace(s)	One or many	Number of	Number of units in terrace	Depth front to back in	Party wall	Position of single unit in	Number of	Number of end
()	-	terraces		terrace	to party wall	terrace	party walls	walls
© GBE Green Building Ca	lculator 2011-2023	1 to 1000	1 to 100	1 to 25	1 to 10	N/A, End or Mid End	0	0
Gridded Building	1	Number of X	Spacing of X spans	X overall	Number of	Spacing of Y	Y overall	
Ť.	the same and a statistic same as a large to a still water	Spans		Length	Y Spans	spans 1 to 20	length	X x Y area
ed text in Turquois cells is reproducing building-wide information but	the user can over write it with room or element specific values	1 to 1000 4	1 to 20 8	1 to 20,000 32	1 to 1000	1 to 20	1 to 20,000 24	1 to 40,000,000 768
Other Geometry Roofs	Other Geometry Roofs							
Building Plan Shapes	Building Plan Shapes							
Circular Geometry	To be developed (prompted by the Video V0)							
Form Factor	Form Factor:							
Option Switches	OptionSwitches:							





GBC V2.3 Option Switched

Option Switches	Option switches from simple to more detailed buildings To be developed in later stages	Drop Down List	
Rooms v Multiple Rooms	Schedule of Accommodation: Room Functions v Room by Room Heat losses	Pending	Schedule of Accommodation: Room Functions v Room by Room Heat losses
Singular v Multiple sizes	When for example there are windows of a 'Singular' size or 'Multiple' sizes choose the appropriate item in the lists against each work section. They can be edited individually later.	Pending	Building Areas: Singular v Multiple Size Building Elements
Sub-Element v Components	Prices and performance may be available as whole sub-elements (windows or doors) or can be worked out to a chosen specification	Pending	Windows, doors, rooflights, glazing as sub-elements v components
Components costs v Elemental Cost Analysis	Prices and performance may be available as whole sub-elements (windows or doors) or can be worked out to a chosen specification	Pending	Elemental/Component Bill of Materials v Elemental Cost Analysis
Seasons: Summer v Winter	Need to investigate the building performance in winter with heating and summer overheating potential with/out cooling	Pending	Summer v Winter analysis
New Build v Retrofit	To account for some components are existing, some are removed, replaced and others are new. Affects pricing and impacts	Pending	Elemental/Components: New Build, Refurbishment, Reclaimed, Reused
Generic Materials v Products	When assembling elements made of components choose between Generic materials, Products or Both	Pending	Elemental Components: Materials v Products
Elements, Bespoke, Readymade	Engages Summary sheets with correct elements	Pending	
Domestic v Non-Domestic	Choose Structures MEP Services	Pending	
Terrace with steps	Lateral or vertical steps	Pending	
Demolition v Retrofit v New		Pending	





GBC V2.3 Hours Temperatures

GBC V2.3 %%%	In-Use Hours to Whole Life	No.	Unit	up to max	% h/y	
	(Spaces heated or cooled)					
	Hours of operation/day	8	h/d	24	33.33%	Type or paste
	Days per week	7	d/wk	7	100.00%	Type or paste
	Weeks per month	4.33	w/m	4.33	100.00%	Auto-filled
	Months per year	5	m/y	12	41.67%	Type or paste
	Weeks per year	21.67	w/y	52	41.67%	Auto-filled
	Days per year	151.67	d/y	365	41.55%	Auto-filled
	Hours per year	1213.36	h/y	8760	13.85%	Auto-filled
	NEW BUILD	NEW BUILD	NEW BUILD	NEW BUILD	NEW BUILD	
	Design Life: Standards	Normal (UK BS 7543)		_		Choose
	Design Life: Number of years	60	у/I			Looked Up
	Hours per building life	72,802	h/l	525,600	13.85%	Auto-filled
	Start Year	2023	У			Type or paste
	End Year	2083	у	1		Auto-filled
	RETROFIT	RETROFIT	RETROFIT	RETROFIT	RETROFIT	
	Start year	2023	У			accept or change
	Target year	2050	У			Type or paste
	Number of years of target design life remaining	27	У	60	45.00%	Auto-filled
	Hours of target building life remaining	32,761	h/tl	236,520	13.85%	Auto-filled

GBC V2.3 %%% Temperatures & Lifestyle

Internal External and below ground Temperature	Degrees C			
Range: -20 to +29	-20 to +30'			
Season (summer/winter)	Summer			Choose
Subsoil	11			accept or change
Swimming pool water	16			accept or change
Unheated Communal Space	10			accept or change
Basement	15			accept or change
Other Unheated Spaces (Integral garage, etc.)	20			accept or change
Outdoors	20			accept or change
Ventilated void below suspended ground floor	N/A			Auto-filled
Attic Loft	50			Auto-filled
Occuapnts and lifestyles determine temperatures				
Lifestyle temperature Choice:	Underwear only	< Drop Down List		Choose
Temperature Choice:	25	VLOOKUP	2	Looked Up
Assumed lifestyle choice for parties beyond party walls/floors	Toasty	< Drop Down List		Choose
Other parties temperature choice:	23	VLOOKUP	2	Looked Up







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GBC V2 Schedule of Accommodation

	Sch	nedule of Accommodation										
		NB: 'Room by Room Losses' table is right of this schedule	No.	No.	m	m	m2	m	m3	Yes/No	Hours	Degrees C
	Floor(s)	Room Functions	Number of rooms	Number of floors	Length(s)	Width(s)	Floor Area Ceiling Area Roof Area	Room heights	Volumes	Achieved in Design	Room in use and temperature controlled hours per day	Design Desired Temperatur
	Total of 4 subtotals below	© GBE Green Building Calculator 2017-2021	1 to 1000	1 to 50	1 to 1000	1 to 1000 Total	1 to 1 million 1,445	2.4 to 10 Total	1 to 10 million 125	Engage in Calculation	1 to 24	-20 to +30
Yes	Basement floor(s)	Whole Basement	1	1	10	6	60	2.5	150	Yes	8	15
		Bedroom	1	1	5	5	25		63	Yes	8	15
		Play room	1	1	5	5	25		63	Yes	8	15
		Operating theatre	1	1	10	10	100	2.5	-		8	15
		wc	1	1	3	3	9		-		8	15
		Shower	1	1	1	3	3		-		8	15
		Garage	1	1	3	6	18		-		8	15
		Storeroom	1	1	10	5	50		-		8	15
		Kitchen	1	1	3	5	15	2.5	-		8	15
	Basement floor(s)	Room Subtotal					245		125			
Yes	Ground floor(s)	Whole Ground floor	1	1	10	6	60	2.5	150		8	20
		Bedroom	1	1	10	5	50	2.5	-		8	20
		Play room	1	1	10	5	50 50		-		8	20
		Operating theatre	1	1	10	5	50		-		8	20 20
		WC Shower	1	1	10	5	50				8	20
		Garage	1	1	10	5	50		-		8	15
		Storeroom	1	1	10	5	50		-		8	20
		Kitchen	1	1	10	5	50	2.5	-		8	20
	Ground floor(s)	Room Subtotal	-	*	10		400	2.0	-			
Yes	Upper floor(s)	Whole upper floors	1	1	10	6	60	2.5	150		8	20
		Bedroom	1	1	5	10	50	2.5			8	20
		Play room	1	1	5	10	50	2.5	-		8	20
		Operating theatre	1	1	5	10	50		-		8	20
		wc	1	1	5	10	50	2.5	-		8	20
		Shower	1	1	5	10	50	2.5	-		8	20
		Garage	1	1	5	10	50	2.5	-		8	20
		Storeroom	1	1	5	10	50				8	20
		Kitchen	1	1	5	10	50	2.5	-		8	20
	Upper floor(s)	Room Subtotal					400		-			
Yes	Top Floor(s) under Roof(s)	Whole top floor	1	1	10	6	60		150		8	20
		Bedroom	1	1	5	10	50	2.5	-		8	20
		Play room	1	1	5	10	50		-		8	20
		Operating theatre	1	1	5	10	50		-		8	20
		WC C	1	1	5	10	50		-		8	20
		Shower	1	1	5	10	50 50		-		8	20
		Garage Storeroom	1	1	5	10	50		-		8	20
		Kitchen	1	1	5	10	50	2.5	-		8	20
		Room Subtotal	-	1	,	10	400	2.3	-		0	
	Top Floor(s)											

GBC V2 Roofs Parts

Roofs	Shapes	Which roof shape?	Roof Pitch	Ridge/Apex Height above eaves	Quantity	Width party wall to party wall	Length of roof surface front to back in terrace	Area	Total	Volume	Solar heat gain duration to be overcome by decrement delay	Solar heat gain maximum temperature
		Yes/No	Degrees	m	No.	m	m	m2	m2	m3	11	50
	22 Flat Roof (FR)	Yes	8	0.25	1	6	10.00	60.02		7.50	11	~
	23 Shallow Roof (SR)	\land				6	10.01	60.07		15.02	117 >	
	24 Pitched Roof (PR)				<u> </u>	6	10.44	62.64		93.96	11	
	25 Barrel Vault Roof (BVR)					6	9.43	56.56	1	133.32	11	50
	26 Domed Roof (DR)	Yes		3	1	6	9.43	84.83	1	56.56	11	50
	27 Hipped/Pyramid Roof (HPR)	Yes	35	3	1	6	10.44	62.64	1	93.96	11	50
	28 Mono-Pitched Roof (MPR)	Yes	30	3	1	6	10.44	62.64	1	93.96	11	50
	29.1 Mansards Roof Flat (MR:F))	Yes	8	0.25	1	6	9.75	58.52				
	29.2 Mansard Roof Vertical (MR:V)	Yes	80	2.5	1	6	2.51	15.07	74	147.19	11	50
	33 Other Geometry Roof (OGR)	Yes	?	3	1	6	13	80.50		120.75	11	50
Dormers	Parts	Dormers or not?	Roof Pitch	Ridge/Apex Height above eaves	Quantity	Width party wall to party wall		Area				
		Yes/No	Degrees	m	No.	m	m	m2				
	30 Dormer Flat Roofs (DFR)	Yes	8		1	6	3.5	21			11	50
	31 Dormer Side Wall (DSW)	Yes		25	2		3.5	18			11	50
	32 Dormer Window Wall (DWW)				1	6		15			11	50
Parapets	Positions	Parapets	Roof Pitch	Parapet height	Quantity		Length of roof surface front to	Area				
Turupets				above roof			back in terrace					
r i	FC France Descent Molille (FDM)	Yes/No	Degrees	m	No.		m	m2	-			
	66 Eaves Parapet Walls (EPW) 67 Party Wall Parapet (PWP)	Yes Yes	35	0.6	31		12 20	2203.2 1800	-			50 50
				0.0	┝╕╒		20		-			50
	68 End of terrace Gable Wall Parapet (GWP)	Yes	35	רא ≻−			20	72	-			50
Overhangs	Positions	Overhangs	Roof Pitch	Dist of overhang	Quantity	Width party wall to party wall		Area				
		Yes/No	Degrees	m	No.	m		m2	-			
	Eaves overhang	Yes	30	0.3	6	7.8		14.04	-			
Gable Walls	Verge overhang Positions	Yes Gable wall	35 Roof Pitch	0.3 Ridge/Apex Height above eaves	6 Quantity		11.8 Length of roof surface front to back in terrace	21.24 Area				
		Yes/No	Degrees	m	No.		m	m2				
	Gable wall upper triangle (Roof)	Yes	35	3	6		20	180				
Party Walls	Positions	Party Wall	Roof Pitch	Ridge/Apex Height above eaves	Quantity		Length front to back of terrace	Area				
		Yes/No	Degrees	m	No.		m	m2	1			
	Party wall roof triangles	Yes	35	3	150		10	2250				
			Not used in calcs so far						-			
Legend												
	User Input cell feeds into calculations											
	Calculator results that the user can overwrite											
	Calculator Results using user inputs											
	Select from drop down list											
	Row or Column titles											
No	Not complete by BRM: Users ignore this row											
?	Awaiting information or User to interrogate Completed by BRM, to be completed by Users											

GBC V2: Other Roof Geometry

User name:	BrianSpecMan did this								
Project name:	Over type with Project name								
Project address:	Over type with Project address								
Other Geon	nerty Roofs	Which roof?	Roof Pitch	Ridge/Apex Height above eaves	Quantity	Width	Length	Area	Volume
		Yes/No	Degrees	m	No.	m	m	m2	m3
	22 Flat Roof (FR)	Yes	8	0.25	1	6	10.00	60.02	7.50
	23 Shallow Roof (SR)					6	10.01	60.07	15.02
	24 Pitched Roof (PR)	Yes	35	3	1	6	10.44	62.64	93.96
	25 Barrel Vault Roof (BVR)	Yes		7.5	1	6	9.43	56.56	133.32
	26 Domed Roof (DR)	Yes		7.5	1	6	9.43	84.83	56.56
	27 Hipped/Pyramid Roof (HPR)	Yes	35	3	1	6	10.44	62.64	93.96
	28 Mono-Pitched Roof (MPR)		30	3	1	6	10.44	62.64	93.96
	29.1 Mansards Roof Flat (MR:F))		8	0.25	1	6	9.75	58.52	147.19
	29.2 Mansard Roof Vertical (MR:V)	Yes	80	2.5	1	6	2.51	15.07	0.00
						_	_		
	41 Other Geometry Ceiling (OGC)	$ \land $?	3	1	6	13.42	80.50	121
	41.1 Conical		30	~5		6	15.62	93.72	?
	41.2 Hyperbolic Parabaloid		30		Ļ	6	16.97	101.82	?
	41.3 Diagonal Butterfly		30	3	1	6	13.42	80.50	?
	41.4 Truncated Conical		30	3	1	6	13.42	80.50	?
	41.5 Inverted Truncated Conical		30	3	1	6	13.42	80.50	?
	41.6 Secant Plan		30	3	1	6	13.42	80.50	?
	41.7 Circular/Oval Plan		30	3	1	6	13.42	80.50	?
	41.8		30	3	1	6	13.42	80.50	?
			Not used in				Not used in	Not used in	Not used in
			calculations				calculations	calculations	calculations so
			so far				so far	so far	far

Legend	
	User Input cell feeds into calculations
	Calculator results that the user can overwrite
	Calculator Results using user inputs
	Select from drop down list
	Row or Column titles
No	Not complete by BRM: Users ignore this row
?	Awaiting information or User to interrogate
Yes	Completed by BRM, to be completed by Users





GBC V2 Room By Room Heat Losses



© 2020-23 GBC Green Building Calculator

					Boi	er Size	Chec	k	Room	By Roc	om H	eat	Loss	es	
Degrees K	Degrees K	m2	W/m2.K	w	Degrees K	Degrees K	m2	W/m2.K	w	W BTU	J W	BTU	J W	BTU	
Temperature other side	Temperature difference	Surface Area	U value	Surface Heat loss	Temperature other side	Temperature difference	Surface Area	U value	Surface Heat loss	Tot	tal surface	e heat lo	sses		
	Internal	l partition	5			Interna	partition	6		Room	F	loor	Build	ding	
										1 Wat	_		56884	BTU	
B (C) 15 15 15		0	0.2033 0.2033 0.2033 0.2033 0.2033 0.2033 0.2033	R	15 15 15 15 15	n		0.2033 1.2 33 0.20 3 0.203 0.2033 0.2033 0.2033		30 1 561 2 200 1 139		930 19 en 41	9 1019	58	lea
15 15	0	0	0.2033	0	0		0		0	385 2	22				
20 20 20 20 20 20	0 0 0 0	0 0 0 0	0.2033 0.2033 0.2033 0.2033 0.2033	0 0 0 0	20 20 20 20 20	0 0 0 0	0 0 0 0	0.2033 0.2033 0.2033 0.2033 0.2033	0 0 0 0	574 3 574 3 574 3	33 Grou 33 33 33	89 39 nd floor			
20 15 20 20	0 0 0	0 0 0 0 0	0.2033 0.2033 0.2033 0.2033	0 0 0	20 15 20 20	0 0 0	0 0 0 0	0.2033 0.2033 0.2033 0.2033	0 0 0	-511 -2 574 3	13 19 13 13				
20 20 20 20 20	0 0 0 0	0 0 0 0 0	0.2033 0.2033 0.2033 0.2033 0.2033	0 0 0 0	20 20 20 20 20 20 20	0 0 0 0	0 0 0 0 0	0.2033 0.2033 0.2033 0.2033 0.2033	0 0 0 0	0 0 0 0	0 Uppe 0 0 0 0	0 (er floors	D		
20 20 20 20	0 0 0	0	0.2033 0.2033 0.2033 0.2033	0 0 0	20 20 20 20	0 0 0	0	0.2033 0.2033 0.2033 0.2033	0 0 0		0 0				
20 20 20 20	0 0 0	0 0 0	0.2033 0.2033 0.2033 0.2033	0 0 0	20 20 20 20	0 0 0	0 0 0	0.2033 0.2033 0.2033 0.2033	0 0 0	0	0	0 (Floor	D		
20 20 20 20 20	0 0 0 0	0 0 0 0	0.2033 0.2033 0.2033 0.2033 0.2033	0 0 0 0	20 20 20 20 20	0 0 0 0	0 0 0 0 0 0 0	0.2033 0.2033 0.2033 0.2033 0.2033	0 0 0 0		00000				
20			0.2003	0	20	0		Demand urce Size	0 7,685	Watts Watts 9		atts			

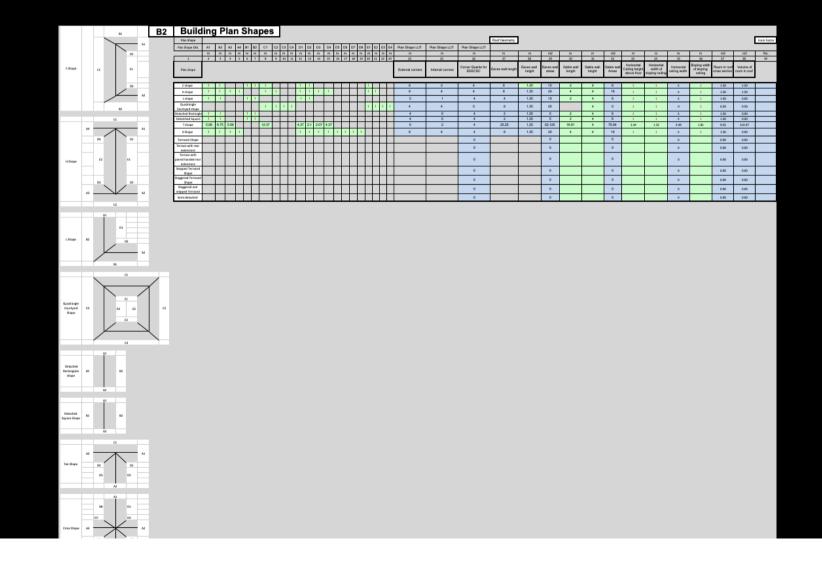
GBC V2 Form Factor

To be															
completed by															To be completed by
GBC user		Yes	Auto-filled		Multiple	Multiple	Multiple	Multiple	Multiple	Auto-filled	Auto-filled	Auto-filled			GBC user
		User name:	Over type with user	name											Auto-filled
		Project name:	Over type with Proje	ect name											Auto-filled
		Project address:	Over type with Proje	ect addre	SS										Auto-filled
		Building Facility Function/Use:	Over type with Build	ling User	Activity or	Purpose									Auto-filled
		Project Brief Employer Requirements													
	GBC V2	Form Factor		No.	No.	m	m	m2	m	m3					
·		Building(s)	Room Functions	Number of buildings	Number of floors	Length(s)	Width(s)	Floor Area Ceiling Area Roof Area	Room heights	Volumes					
		© GBE Green Building Calculator 20	11-2022	1 to 1000	1 to 50	1 to 1000	1 to 1000	1 to 1 million	2.4 to 10	1 to 10 million					
		Whole Building	All rooms	1	4	10	6	240	2.5	600	m3	Volume			Auto-filled
		Terrace(s)	One or many	Number of terraces	Number of units in terrace	Depth front to back in terrace	Party wall to party wall	Position of single unit in terrace	Number of party walls	Number of end walls					
		© GBE Green Building Calculator 202		1 to 1000	1 to 100	1 to 25	1 to 10	N/A, End or Mid	Humber of party waits	Waltz	l				
		a one or contracting careering and		3	51	10	6	End	1	1	No.				Auto-filled
				Number of buildings	Number of floors	Length(s)	Width(s)	Floor Area Ceiling Area Roof Area	Room heights						
		External wall		1	4	80	48	1280	2.5						Auto-filled
		Ground floor footprint		1		10	6	60							Auto-filled
		Ground or upper Floor suspended over external air	1		Nuz		6 Width(s)	60 Roof Area	Roof height	Roof Volume					Multiple
	Yes		22 Flat Roof (FR)	1	1	10	6	60	0.25	0	m3				Multiple
	Yes		23 Shallow Roof (SR)	1	1	10	6	60	0.5	15	m3				Multiple
	Yes		24 Pitched Roof (PR)	1	1	10	6	60 60	3	90 283	m3 m3				Multiple
	Yes Yes	Roof area, Roof shape and Attic volume	25 Barrel Vault Roof (BVR) 26 Domed Roof (DR)		1	10	6	60	3	113	m3				Multiple
	Yes		27 Hipped/Pyramid Roof (HPR)		1	10	6	60	3	45	m3				Multiple
	Yes		28 Mono-Pitched Roof (MPR)	1	1	10	6	60	3	90	m3				Multiple
	Yes		29 Mansard Roof (MR) 33 Other Geometry Roof (OGR)	1	1	10	6	60 60	0.25	14	m3 m3				Multiple
	167			No.	Number of floors	Depth	Width	Floor/Roof Area	Height	Volume		Heat Loss Surface Area			in an an an a
		Terraced House Rear Extension		1	1	5	3.5	17.5	2.5	43.75	m3		n2		Multiple
		Weather Porch Conservatory/Sun Space		$\prec \succ$	1	2	2	4 16.5	3	12 82.5	m3 m3		n2 n2		Multiple
		Bay window			1	1	3	3	2.5	7.5	m3		n2		Multiple
		Oriel Window (upper floor bay window)		1	1	1	3	3	2.5	7.5	m3	16.5 n	n2		Multiple
		28-30 Dormer roof/window		1	1	4	5.5	22	2	44	m3	37.5 n	n2		Multiple
		Heat Loss Surface Area	SA	1			1	1766	m2.	797.25	m3	220 n	n2		Auto-filled
		Treated Floor Area	TFA	1	4	10	6	240	m2						Auto-filled
		Form Factor (FF) range	0	1	2	3	4	5	6	7	8	9	10		
		Form Factor (FF) =						8.28 FF	Used by Zero Carbon						Auto-filled
		Target Form Factor FF	Typology/Shape ology Apartment Block or uniform terra	ce				<2	1	Target U values 0.2 to 0.15	Y/N N	Unit W/m2.K	4		Auto-filled
		anger of the access of	Semi-detached or compact detac					2 to 3	2	0.15 to 0.12	N	W/m2.K	3		Auto-filled
			Less compact detached houses of	compact deta	ched bungalows			3 to 4	3	0.12 to 0.10	N	W/m2.K	2		Auto-filled
			Complex shaped detached bunga	lows				>4	4	<d.1< th=""><th>Y</th><th>W/m2.K</th><th>1</th><th></th><th>Auto-filled</th></d.1<>	Y	W/m2.K	1		Auto-filled
		Passivhaus Heat Loss Factor (HLF)	0.7	1.1	1.5	2	2.4	2.8	3	3.3	3.7	4	4.5	io.	
	0.038	Stone wool insulation (mm)	70	110	150	200	240	280	300	330	370	400		nm	Auto-filled
	alue	Equals U values of:	0.54	0.35	0.25	0.19	0.16	0.14	0.13	0.12	0.10	0.10	0.08	1	Auto-filled
	0.16	Calcium Silicate	463	632	842	1011 Bule of t	1179 humb: Halve the heat loss	1263 area, halve the insulation thic	1389 koess	1389	1558	1684	1895 r	nm	Choose
			-			come of t	and the second sec	and the second sec							





GBC V3 Building Plan Shapes







GBC V2 U values Etc. Targets

U Values Etc. Regulations/ Design Standarda/ Campaigns	Ruilding Negulations Approved Document 1 2019 Randon 2001 Standard 2001 Standard 2001	Kontak Yechical Bandard Proti 2020 Rothern Verland (2017) ditte Radiand and Rothern Verland (2017)	Efficiency FEE FeE Encige FEE Display Patchinas	Liff London Gargy Thankmarkan Vellowing Hankmarkan Vellowing Hankmarkan Vellowing Hankmarkan Vellowing Hankmarkan Vellowing Hankmarkan Hankmark
GBC V2 -	UK Faglen 2.6.4 England & Weller 3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Pagini 1 Pagini 1 Distribution Distribution 0	810 1	Deside Image: Control of the contro of the control of the control of the control of the control of th
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GBC V2 Thermal Insulation Conductivities

- Violet columns: Violet materials: do not use:
 (asbestos, ceramic fibre, CFC, HCFC plastics)
- Dark blue columns: need more properties

k va k va k va k s Bas s S	A >1 k value values values values	Form 500 FCS FCS Material Initials Worst Best	M	GMW Glass Mineral Wool	Stone Mineral Wool	Blast Furnace Slag wool	Asbestos fibre (yes its used and shots slots) in eastern europe)	Fiber (no longe in UK/EU mar		/ Recycle	chips	Expanded clay	ant Expanded Lase Aggregate		Clay	Aerated Cabs	concrete G	Concrete Canu	agregate Con
k va k va k va k s Bas s S	ralues alues ralues	Material Initials Worst	VI	Glass Mineral Wool	Stone Mineral Wool	Furnace Slag woo	libre (yes its u europe)	Fiber (no longe in UK/EU mar		/ Recycle	chips	<u> </u>	pa		Clay		9		0
k va k va k va k s Bas s S	ralues alues ralues	Material Initials Worst		Glass Mineral Wool	Stone Mineral Wool	Furnace Slag woo	libre (yes its u europe)	Fiber (no longe in UK/EU mar		/ Recycle	chips	<u> </u>	pa		Clay		9		0
k va k va k va k s Bas s S	ralues alues ralues	Material Initials Worst		Glass Mineral Wool	Stone Mineral Wool	Furnace Slag woo	libre (yes its u europe)	Fiber (no longe in UK/EU mar		/ Recycle	chips	<u> </u>	pa		Clay		9		0
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k va k va k va k s Bas s S	ralues alues ralues	Material Initials Worst		Glass Mineral Wool	Stone Mineral Wool	Furnace Slag woo	libre (yes its u europe)	Fiber (no longe in UK/EU mar		/ Recycle	chips	<u> </u>	pa		Clay		9		0
k va k va k va k s Bas s S	ralues alues ralues	Material Initials Worst		Glass Mineral Wool	Stone Mineral Wool	Furnace Slag woo	libre (yes its u europe)	Fiber (no longe in UK/EU mar		/ Recycle	chips	<u> </u>	pa		Clay		9		0
k va k va oor © Gi s Bas s Swin	ralues values values	Initials Worst	-	Glass Mineral	Stone Mineral	Furnace Slag	fibre eurc	.≓.⊆	SS	~	chips	panded	panded gate	g	ow Clay	erated	concrete	rete	gregate
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k va oor © Gt s Bas s Swin	values .	Best	W/m.K	0.045	0.045	0.040	Don't	Don't	0.060	0.060	0.100			0.059	0.390	0.110	0.550	0.160	0.230
oor © Gi as Bas as Swin		Augenee	W/m.K W/m.K	0.031 0.038	0.031 0.038	0.031	Use	Use	0.037 0.049	0.039	0.100	0.000	0.000	0.059	0.270	0.110	0.550	0.160	0.120
as Swi		Average U values	W/m2.K	0.036 mm	0.036 mm	0.036 mm	mm	п	0.049 mm	0.050 mm	0.100	0.000 mm	0.000 mm	0.059 mm	0.330	mm	0.550	0.100 mm	0.175 mm
	sement Floor		W/m2.K	253	253	237			323	330	667			393	2200	733	3667	1067	1167
	vimming Pool Basin oper floors (including ground floor over basement)		5 W/m2.K	253 253	253 253	237 237			323 323	330 330	667 667			393 393	2200 2200	733	3667 3667	1067 1067	1167 1167
s Gro	ound floor over ground	0.15	5 W/m2.K	253	253	237			323	330	667			393	2200	733	3667	1067	1167
	ound floor over ventilated void oor with underfloor heating	0.15		253 253	253 253	237 237			323 323	330 330	667 667			393 393	2200 2200	733	3667 3667	1067 1067	1167
es Exte	ternal floor over air	0.15	5 W/m2.K	253	253	237			323	330	667			393	2200	733	3667	1067	1167
	empartment Floor inty Floor	0.15		253 253	253 253	237 237			323 323	330 330	667 667			393 393	2200	733	3667 3667	1067 1067	1167
alls		0.00	0		200						007			385	2200	755			
	sement Perimeter Wall sement internal Wall/Partitions	0.15		253 253	253 253	237			323 323	330 330	667 667			393 393	2200 2200	733 733	3667 3667	1067 1067	1167 1167
	ternal wall	0.15		253	253	237			323	330	667			393	2200	733	3667	1067	1167
	ternal wall Insulated Cavity	0.15		253	253	237			323	330	667			393	2200	733	3667	1067	1167
	ternal wall Solid wall insulated (Int or Ext) ernal partition/wall	0.15		253 253	253 253	237 237			323 323	330 330	667 667			393 393	2200	733	3667	1067	1167
s Con	ompartment Wall	0.30) W/m2.K	127	127	118			162	165	333			197	1100	367	1833	533	583
	rty Wall	0.30		127 253	127	118 237			162 323	165 330	333 667			197 393	1100 2200	367	1833 3667	533 1067	583
o Unfi	filled cavity unsealed edges	0.15	5 W/m2.K	253	253	237			323	330	667			393	2200	733	3667	1067	1167
	filled cavity sealed edges thermal breaks led cavity sealed edges thermal breaks	0.15	5 W/m2.K	253 253	253 253	237 237			323 323	330 330	667 667			393 393	2200	733	3667	1067 1067	1167
oof Roo	oofs (includes opaque parts of dormers)	0.00	0																
	at roof allow roof	0.15		253 253	253 253	237			323 323	330 330	667 667			393 393	2200 2200	733	3667 3667	1067 1067	1167
	ched roof (insulation at rafter)	0.15	5 W/m2.K	253	253	237			323	330	667			393	2200	733	3667	1067	1167
	ft ceiling (insulation at ceiling)	0.15		253 253	253 253	237 237			323 323	330 330	667 667			393 393	2200 2200	733 733	3667 3667	1067 1067	1167 1167
	mel Vault roof omed Roof	0.15		253	253	237			323	330	667			393	2200	733	3667	1067	1167
es Eav		Unregulated	W/m2.K																
	rge overhang sement roof at site level	Unregulated 0.15	W/m2.K 5 W/m2.K	253	253	237			323	330	667			393	2200	733	3667	1067	1167
as Bas	sement roof at subterranean level	0.15	5 W/m2.K		253	237			323	330	667			393	2200	733	3667	1067	1167
	azing (Maximum % of total area) ndows (whole window value)	0.00	5 W/m2.K	40	40	37			51	52	105			62	347	116	579	168	184
s Glaz	azed Pedestrian Doors	0.95	5 W/m2.K	40	40	37			51	52	105			62	347	116	579	168	184
	hichle access and similar large doors gh usage entrance doors		5 W/m2.K	51 51	51 51	47			65 65	66 66	133 133			79 79	440 440	147	733 733	213 213	233 233
as Opa	baque Door	0.75	5 W/m2.K	51	51	47			65	66	133			79	440	147	733	213	233
	oflights		5 W/m2.K	40 40	40	37			51	52	105			62	347	116	579	168	184
	of windows of ventilation including smoke vents		5 W/m2.K	40	40 51	37 47			51 65	52 66	105 133			62 79	347 440	116	579 733	168 213	184 233
as Glat	azed roof	. 0.95	W/m2 K	40	40 alues Etc	. 37			51	. 52	105			62	347	116	579	168	184

		Mainly mine	eral based											Eibro				Ecom					Aainly Foss	I Oil-based	
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glass chips	Ц.	greg	cate	Hollow	Aer	8	a or	66e		erlit	erlit	E	ulati	e	le l	- Ao	effb	dys	Expand 1e	alys	polystyr	polysty own)	lyst		urat
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ulat	twe rega	age	, min	ks	cret	Š×	Ited	Itwe	gel	ande	ando	oliate	<i><u><u></u></u></i> <u></u>	este	o d	E	L L	and	styre	ande	nde	ab C	epi (nref	ŝ
Cellulat	Lightweight Aggregate	Lightweiç Sewage	Calcium Silicate	Extruded I Blocks	Autoclaved Concrete	Hollow Dense block	Aerated Concrete	Lightweight concrete	Aerogel	Expanded	Expanded repellant	Exfoliated	Vacuum insulate	Polyest	Polypropyl	Soft Foam	Other plastic fibre	Expanded	Recycled E polystyrene	Expanded polys Cement Bound	Extruded	Extruded polyst (HCFC Blown)	Extruded blown)	Polyurethan	Polyisocyanurate
CGC	LECA	LESA	S	EHCB	AAC	HDCB	AC	LAC	۲	£	EPWR	B	٩N	Ъ	ЪРГ	SFP	OPF	EPS	REPS	EPSCB	XPS	KPSH	XPSC	PUR	R
.100	_	_	0.059	0.390	0.110	0.550	0.160	0.230	0.013	0.050	0.053		0.006		0.500	0.040		0.044	0.040	ш 0.060	0.040	0.032	0.040	0.040	0.035
.100			0.059	0.270	0.110	0.550	0.160	0.120	0.013	0.050	0.053		0.006		0.500	0.040		0.032	0.032	0.060	0.027	0.032	0.040	0.022	0.025
.100	0.000	0.000	0.059	0.330	0.110	0.550	0.160	0.175	0.013	0.050	0.053	0.000	0.006	0.000	0.500	0.040	0.000	0.038	0.036	0.060	0.034	0.032	0.040	0.031	0.030
667	mm	mm	mm 393	2200	mm 733	3667	mm 1067	mm 1167	mm 87	mm 333	mm 353	mm	mm 40	mm	mm 3333	mm 267	mm	mm 253	mm 240	mm 400	mm 223	mm 213	mm 267	mm 207	mm 200
667			393	2200	733	3667	1067	1167	87	333	353		40		3333	267		253	240	400	223	213	267	207	200
667 667			393 393	2200	733	3667	1067	1167 1167	87 87	333 333	353 353		40		3333 3333	267 267		253 253	240 240	400	223 223	213 213	267 267	207	200 200
667 667			393 393	2200 2200	733 733	3667 3667	1067 1067	1167 1167	87 87	333 333	353 353		40 40		3333 3333	267 267		253 253	240 240	400	223 223	213 213	267 267	207 207	200 200
667			393	2200	733	3667	1067	1167	87	333	353		40		3333	267		253	240	400	223	213	267	207	200
667 667			393	2200	733	3667	1067	1167 1167	87 87	333 333	353 353		40		3333 3333	267 267		253 253	240 240	400	223	213 213	267 267	207	200 200
667 667			393	2200	733	3667	1067	1167 1167	87	333	353 353		40		3333 3333	267 267		253 253	240 240	400	223	213	267	207	200
667 667			393	2200 2200	733 733	3667 3667	1067 1067	1167 1167	87 87	333 333	353 353		40 40		3333 3333	267 267		253 253	240 240	400	223 223	213 213	267 267	207 207	200 200
667			393	2200	733	3667	1067	1167	87	333	353		40		3333	267		253	240	400	223	213	267	207	200
667 333			393 197	2200	733	3667	1067 533	1167 583	87 43	333 167	353		40		3333 1667	267 133		253 127	240	400	223	213	267 133	207	200 100
333			197	1100	367	1833	533	583	43	167	177		20		1667	133		127	120	200	112	107	133	103	100
667 667			393 393	2200	733	3667	1067	1167 1167	87	333 333	353 353		40		3333 3333	267 267		253 253	240 240	400	223	213 213	267 267	207	200 200
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GBC V3 Insulation k density she

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Summer Reclami Thermal Insulation Reep heat out





GBC V2 Elements

- Component rows: Yes, No
- Choose: New, Retrofit, Demolition
- Choose: Generic materials, Products
- Components: Choose materials
- Check: U value Pass or fail

To I comple GBC	be led by user	Multiple	Choose	Choose	Yes	Yes	Yes	Choose	Yes	Yes	Multiple	Auto-Biled	Auto-Biled	Yes Yes	Auto-Siled	Auto-Biled	Auto-Biled	Auto-Biled	Auto-filled	Check
instruc	tions				© GBE Green Building Calculator 2011-2022															
Sart Ca	iumns	GBC V2	Elements		Elemental U values Component k values & thicknesses	User name:		Over type with user name]								
0	0				Basement and Pool Basin															
o	a	YearNo	New Baid or Relativistrum Actions	Санитс главный ог Роздисско Асхиванску	Compared Fancton	Nardisture	Product Relevence	Composed Materia	Density	Tharmal Conductivity	Thickness	Thickness	Thermal Residance	skize: width or thickmees (solid) Specing or cenity (rold)	Fraction of area or section	Thermal Residences	Celouited Total U value	Target Elemental U value	Difference	Pass, PassU or Fail
•	,	Yes			1 Basement Floor (BF)	laxt	hot	Choose from Drop Down List	t kg/m3	Wim K	mm	m	m2.K/W	mm mm	%	m2.K/W	Wim2.K	Wim2.K	Wim2.K	Auto
2	2	Yes			Resistance of Inside Surface (Rai)								0.17			0.170				
3	4	Yes	New	Generic Material Generic Material	Immer decoration Floor finish			Decoration: Wood stain / varnish Timber: FSC, Hardwood, Sawn, 25mm							100%	0.000	_			
2	2	Yes	New	Generic Material	Inner foor lander			Internal Lining: Cypeum plasterboard foil faced, 12.5mm								0.050	-			
8	8	Yes	New	Generic Material	Invertigation of the second seco			Internal Floor Finish: Screed 45mm								0.110	-			
7	7	Yes	New	Generic Material	Internal insulation			Thermal Insulation: Polyurethene board PUR 250mm				0.25		1 1	100%	10.000	-			
8		Yes	New	Generic Material	Drainage fitration layer			Plastics: High Density Polyethylene (HDPE), Profiled		1	50	0.05	0.050	2 48	4%	0.002	1			
9		Yes	New	Generic Material	Inner banking			Plastics: Low Density Polyethylene (LDPE) Film					0.001	1 1	100%	0.001				
	10	Yes	New	Generic Material	Retaining floor			Concrete (eg in-situ foor slabs) with 50% GGBS RC40			150			1 1						
	11	Yes	New	Generic Material	Damp/Gas proof membrane			Plastics: Low Density Polyethylene (LDPE) Film			0.12		0.001	1 1	100%	0.001				
12	12	Yes	New	Generic Material	Ground gas ventilation labyrinth			Thermal Insulation: Expanded Polystyrene	11	0.044	100	0.1	2.273	50 100	50%	1.136	_			
	13	Yes	New	Generic Material	Blinding layer			Aggregate and Sand: Sand	1	2.000	50	0.05	0.025	1 1	100%	0.025				
14	14	Yes	New	Generic Material	Insulating beckfil			Aggregates and Sand: Expanded clay aggregate and sand	1	1	150	0.15	0.150	1 1	100%	0.150	1			
	15	Yes	New	Generic Material	Consolidated hardcore			Aggregate and Sand: Recycled		1	150	0.15	0.150	1 1	100%	0.150				
18	16	Yes	New	Generic Material	Drainage layer			Sea shells		1	50	0.05	0.050	1 1	100%	0.050	1			
17	17	Yes	New	Generic Material	Undisturbed subsidi			Sail SubSol: Clay			1000	1	0.667	1 1	100%	0.867	1			
	18	Yes			Resistance of Cutside Surface (Rao)						2032.84		0			0.000				Check
19	19									Actua	2032.84	2.03284				12.743	0.078	0.15	-0.072	Pass
20	20										Overall thickness mm	Overall thickness m				Total elemental R value	Total elemental U value	Target elemental U value	Difference	Pass, PassU or Fail

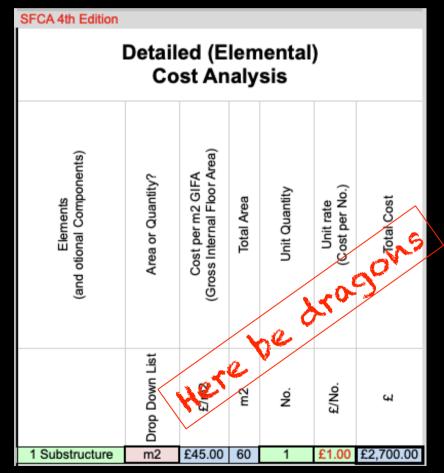
GBC GBC B2 Elemental Assembly > 4 Bill of Materials Quantities Costs

Yes/No	Exiting Previous Proposed	Component Function	Manufacturer	Product Reference	Material	Area GIFA	Labour Rate	Labour Cost	Accessories Rate	Accessories Cost	Products or Materials Rate	Products or Materials Cost	Preliminaries, Overheads, Profits Rate	Preliminaries, Overheads, Profits Cost	Total Rate	Total Cost
No		Ground Bea Bill	ring of N	Sol IQL/	id Floor (GBSF) APMOC	m2	£/m2	£	£/m2	£	£/m2	£	£/m2	£	£/m2	£
Yes						0.00										
No	Proposed	Internal Floor Decoration	0	0	Lacquer	0.00	£0.00	£0	£0.00	£0	£0.00	£0	£0.00	£0	£0.00	£0
No	Proposed	Internal Floor Finish	0	0	Hardwood flooring	0.00	£0.00	£0	£0.00	£0	£0.00	£0	£0.00	£0	£0.00	£0
No	Propose	Internal Decking	0	0	Gypsum fibreboard	0.00	<u>~~</u>	£0	<u>~~</u> 00	£0	7 00	£0	2.00	£0	\sim	£0
No	Propos	Internal Thermal Insulation	0	0	Wood fibre	0.00	 00	£0		£0	 00	£0	.00	£0	<u> </u>	£0
No	Previous	Internal Floor Decoration	0	0	Lacquer	0.00	£0.00	£0	£0.00	£0	£0.00	£0	£0.00	£0	£0.00	£0
No	Previous	Internal Floor Finish	0	0	Softwood	0.00	£0.00	£0	£0.00	£0	£0.00	£0	£0.00	£0	£0.00	£0
No	Previous	Internal Decking	0	0	Chipboard	0.00	£0.00	£0	£0.00	£0	£0.00	£0	£0.00	£0	£0.00	£0
No	Previous	Internal Thermal insulation	0	0	Mineral wool, rock	0.00	£0.00	£0	£0.00	£0	£0.00	£0	£0.00	£0	£0.00	£0
No	Previous	Internal Vapour control layer	0	0	PE foil Polyethylene	0.00	£0.00	£0	£0.00	£0	£0.00	£0	£0.00	£0	£0.00	£0
No	Existing	Floor wearing surface	0	0	Ceramic Tile	0.00	£0.00	£0	£0.00	£0	£0.00	£0	£0.00	£0	£0.00	£0
No	Existing	Levelling/Bedding	0	0	Screed	0.00	£0.00	£0	£0.00	£0	£0.00	£0	£0.00	£0	£0.00	£0
No	Existing	Solid Ground Floor	0	0	Softwood	0.00	£0.00	£0	£0.00	£0	£0.00	£0	£0.00	£0	£0.00	£0
No	Existing	Undisturbed Subsoil	0	0	Undisturbed Soil	0.00	£0.00	£0	£0.00	£0	£0.00	£0	£0.00	£0	£0.00	£0
Yes																
						£0.00	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0
						Elemental Cost/m2	Elemental Labour Rate/m2	Elemental Labour Cost	Elemental Accessories rate/m2	Elemental Accessories Cost	Elemental Material Rate/m2	Elemental Material Costs	Elemental Preliminaries , Overheads, Profits Rate	Elemental Preliminaries , Overheads, Profits Cost/m2	Total Elemental Intervention: Materials Accessories & Labour Rate	Elemental Intervention Cost: Materials Accessories & Labour

- Retrofit bespoke development
- Existing, previous & proposed interventions
- Individual rates or overall rates



GBC V2 Elemental Cost Planning















GBPDC Green Building Product Data Collection



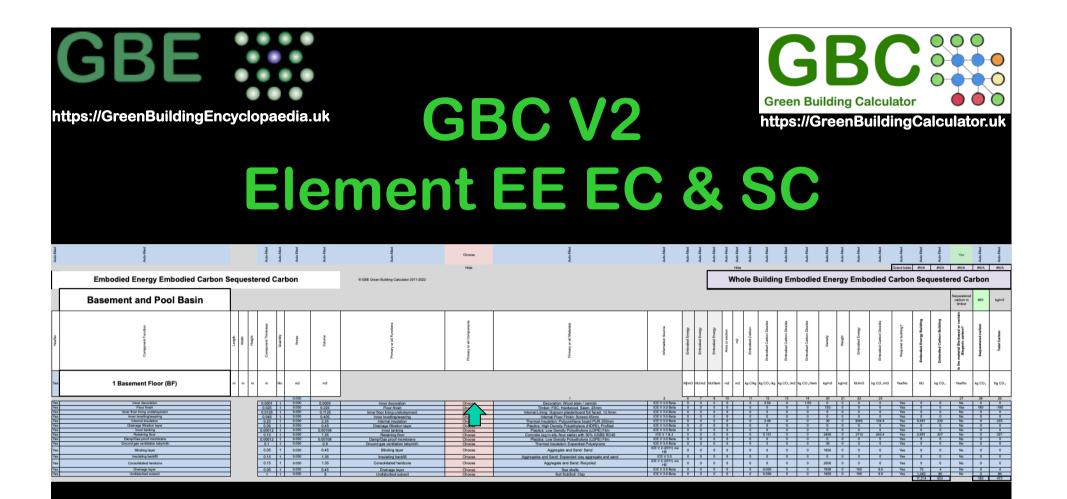








Green Building Readymade Elemental Assemblies





https://GreenBuildingCalculator.uk **EE EC SC Look Up Table** More datasets needed

GBC V2

Green Building Calculator

GBC V2	Eml	EE EC ES Datasets bodied Energy & Embodied & Sequestered CO3	* OPE Grove Building Calestates 2015-2022																													
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Habelah	E 18	la aile concrete minera, analing and aveing	Aggregates and Sank from second or pressorers, balls, have	ICE V 5.8 BALL-V2 NE		4						•								2			•	•	•	·	•	н.	÷		Proding	Pra
Malesiala	218	la aile annarche aisre, acalleg cadaariag	Augeregebre and Sank: fram virgin Loud une resources, halls, house	ICE V S. BAILAND HE		4	·					•								2			•	•	1	•	•	н.	•	•	Pruding	Pres
Halesiala	211	la sila annorde alora, acating and aneing	Aquerquire and Scali from nivgin marine reasoneers, helb, lanee	ICE V 3.8 Pola-V2 HE		4						•								2			•	•	•	·	•	н.	1	•	Prading	Pres
Malastala	211	la sila annarele niara, acaling sud aneing	Aggregales and Sank General aggregate	ICE V 5.8-V2 HE	'							•								2			•	•	- 1	•	•	н.	1	•	Prodice	Pres
Habelah	E 11	la aile annor de minera, anoling and moving	Magera, des and Sank ywerd WK, wieders of Lask was, warier, second arg and erapided, in His hour	ICE V 3.8 D+1+-V2 HE		4	·					'								2			•	•	•	•	•	н.	•		Proding	Pres
Halveiale	218	la aile annarch-ainre, scaling and anring	Augereyales and Sandt general, niegin minister of land was and movies, bulk, lower	ICE V 5.8 Pv1a-V2 HE		4	•					•					.116221 .			2			•	•		•	•	н.		•	Prairies	Pres

ICE 3.0 database carbon reporting options

Mass/Declared Unit	kg/Declared Unit
Embodied Energy only	
Embodied CarbonO2 (only)	kgCO2/kg
Embodied CarbonO2 (only)	kgCO2/m2
Embodied CarbonO2 equivalent	kgCO2e/kg
Embodied CarbonO2 equivalent	kgCO2e/tonne
Embodied CarbonO2 equivalent	kgCO2e/m2 per 1 mm
Embodied CarbonO2 equivalent	kgCO2e/m2 per 100 mm
Embodied CarbonO2 equivalent	kgCO2e/unit
Module A1-3, Embodied Carbon	kg CO2e/kg
Module D, Carbon	kg CO2e/kg
Module A-D, Embodied Carbon	kg CO2e/kg

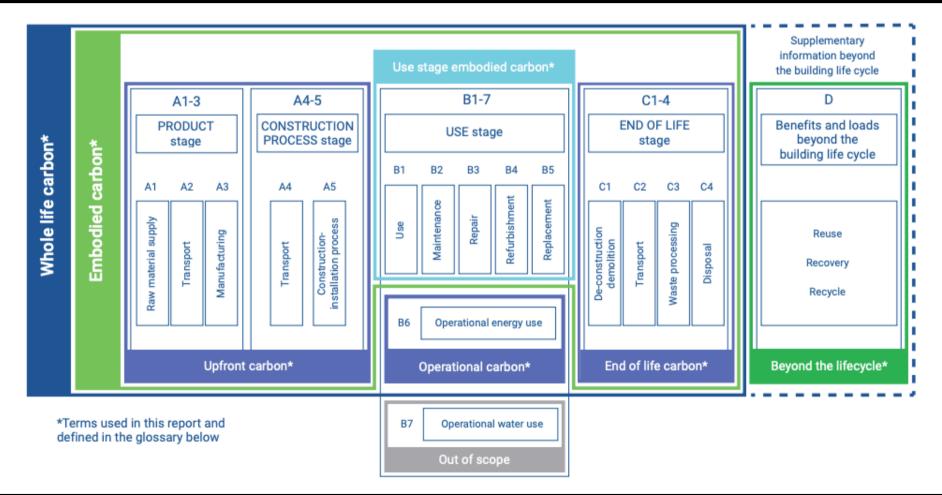
GBC B2 ICE Database EC datasets: more calculations to enable

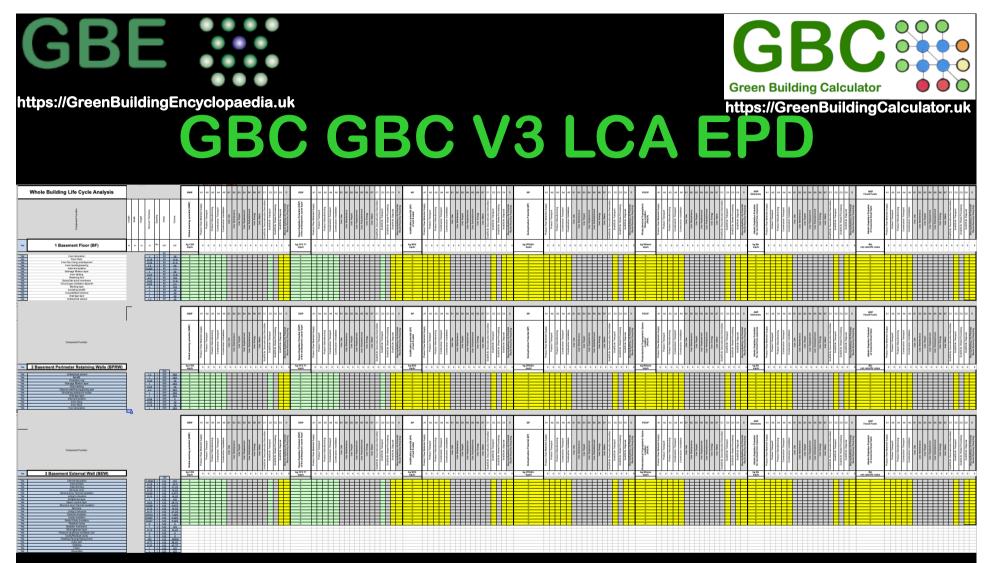
E	nbodie	E EC SC Datasets d Energy & Embodied & equestered CO2	· C	or	n	K		G	7		S		D	n	13	14	15	16	17	18	19	20	21
Materials or component	Specification CAWS	CAWS Tile	Matarial	Information Source	Embodied Energy	Embodied Energy	Embodiad Enargy	Area or section	m2 Embodied Carbon	Embodied Carbon Dioode	Embodiad	Carbon Disside	Embodoad Carbon Dioxida	Dansky	a uga nav	Entergy	Embodied Carbon Dioxide	Volume Raqied in Building	Entbodied Energy in Building	Emboded Carbon in Building	i it biobased? Does it contain Biogenic Carbon?	Sequence red carbon in Building	Tool Carbon in Bubling
					Mj/m3	MI/m2	MJ/item	m2 r	m2 kg C	/kg kg CO2		02/m2 kg	g CO2/Item	kg/m3	kg/m2	MI/m3	kg CO2/m3	m3	MJ	kg CO2	Yes/No	kg 002	Kg CD2
Materials	F10 F10	Brick/block walling	Aerated block Aerated block	ICE 1 & 2 ICE 1 & 2	3.5					0.3				750 750		2,625.00	225.00	1.00	2625	225.00	No	0.00	225.00
Materials	E10	Brick/block walling Concrete	Agregate	ICE 1 & 2	0.083	-				0.3			-	2240		2,625.00	10.75	1.00	185.92	10.75	No	0.00	10.75
Materials	E10	Concrete	Aggregate	ICE 2	0.083					0.004	18			2240		185.92	10.75	1.00	185.92	10.75	No	0.00	10.75
Materials	E10	Concrete	Aggregate	ICE 1	0.1					0.008	5			2240		224.00	11.20	1.00	224	11.20	No	0.00	11.20
Materials	D20	Excavation & Filing	Aggregate Quarried	ICE 2 (2011) via HE		_								2000				1.00	0	0.00	No	0.00	0.00
Materials Materials	D20 E10	Excavation & Filing Concrete	Aggregate Recycled Aggregates	ICE 2 (2011) via HE E-CT	0.1	-			0.00	20				2000		224.00	0.00	1.00	224	0.00	No No	0.00	0.00
Materials	Z11	Metals	Aluminium (general & incl 33% recycled)	ICE 1 & 2	155	-			0.00	8.24				2700		418.500.00	22,248.00	1.00	418500	22,248.00	No	0.00	22248.00
Materials	Z11	Motals	Aluminium (general & incl 33% recycled)	ICE 1 & 2	155					8.24				2700		418,500.00	22,248.00	1.00	418500	22,248.00	No	0.00	22248.00
Materials	H11	Metals	Aluminium (recycled)	E-CT	27				1.6	99				2700		72,900.00	0.00	1.00	72900	0.00	No	0.00	0.00
Materials	H11	Metals	Aluminium (virgin)	E-CT	154.3				11.4	46				2700		416,610.00	0.00	1.00	416610	0.00	No	0.00	0.00
Component	L10 L10	Windows Windows	Aluminium / timber frame double casement 1200 x 1200 2x glazed, air or argon filed Aluminium / timber frame double casement 1200 x 1200 2x glazed, krypton filed	ICE 2			1460 1970	1.44 /	m2			_	75			2,102.40 2.836.80	108.00	1.00	2102.4 2836.8	108.00		0.00	108.00
Components Components	L10	Windows	Auminium / timber frame double casement 1200 x 1200 2x glazed, krypton filed Aluminium / timber frame double casement 1200 x 1200 2x glazed, xeon filed	ICE 2			5960	1.44	m2 m2			_	304			8,582,40	437.76	1.00	8582.4	437.76	2	0.00	437.76
Components	L10	Windows	Aluminium cled timber frame 1200 x 1200 2x glazed, air or argon filed	ICE 2			950	1.44	m2				48			1,368.00	69.12	1.00	1368	69.12	ŝ	0.00	69.12
Components	L10	Windows	Aluminium cled timber frame 1200 x 1200 2x glazed, krypton filled	ICE 2			1460	1.44 /	m2				74			2,102.40	106.56	1.00	2102.4	106.56	55	0.00	106.56
Components	L10	Windows	Aluminium clad timber frame 1200 x 1200 2x glazed, xeon filed	ICE 2			5450	1.44 /	m2				277			7,848.00	398.88	1.00	7848	398.88	%	0.00	338.88
Components	L10	Windows	Aluminium clad timber, 2x glazed, argon filled, window	ICE 1			1200	1 r	m2				61			1,200.00	61.00 61.00	1.00	1200	61.00	%	0.00	61.00
Components	L10	Windows	Aluminium clad timber, 2x glazed, argon filed, window Aluminium frame 1200 x 1200 2x glazed, air or argon filed	ICE 1 & 2			5470	1.44	m2				279			7,876,80	401.76	1.00	1200	61.00	No	0.00	61.00
Components	L10	Windows	Aluminium frame 1200 x 1200 2x glazed, ar or argon med	ICE 2			5980		m2				305			8.611.20	439.20	1.00	8611.2	439.20	No	0.00	439.20
Components	L10	Windows	Aluminium frame 1200 x 1200 2x glazed, xeon filed	ICE 2			9970	1.44 /	m2				508			14,356.80	731.52	1.00	14356.8	731.52	No	0.00	731.52
Materials	Z11	Metais	Aluminium: general	ICE 2 (2011) via HE										2700		0.00	0.00	1.00	0	0.00	No	0.00	0.00
Materials	Q22	Asphalt Paving Asphalt Paving	Asphalt Asphalt paving	ICE 2 (2011) via HE ICE 1	2.41	-				0.14				1700		0.00	0.00 294.00	1.00	5061	0.00	No	0.00	0.00 294.00
Materials	022	Asphalt Paying	Asobalt naviso	ICEN	2.41					0.14				2100		5,051.00	294.00	1.00	5061	294.00	No	0.00	294.00
Materials	Q22	Asphalt Paving	Bitumen	ICE 2 (2011) via HE										1000		0.00	0.00	1.00	0	0.00	No	0.00	0.00
Materials	Q20		Bitumen (general)	ICE 1	47					0.48						0.00		1.00	0	0.00	No	0.00	0.00
Materials	J41	Built up feit roofing	Bitumen (general) max.	ICE 2	51	-				0.43	3					0.00	0.00	1.00	0	0.00	No	0.00	0.00
Materials Materials	J41 F30	Built up felt roofing Brick/block walling	Bitumen (general) min. Bituminous Damp Proof Course	ICE 2 E-CT	51 134	-			4.3		5					0.00 247.900.00	0.00	1.00	247900	0.00	No No	0.00	0.00
Materials	F10	Brickblock walling	Brick Standard	ICE 2 (2011) via HE	104				-	-				2.30	tonnes / 1000 bricks		0.00	1.00	0	0.00	No	0.00	0.00
Materials	F10	Brick/block walling	Bricks	E-CT	3				0.2	22				1700		5,100.00	0.00	1.00	5100	0.00	No	0.00	0.00
Materials	F10	Brick/block walling	Bricks (common)	ICE 2	3					0.24	k i			1700		5,100.00	408.00	1.00	5100	408.00	No	0.00	408.00
Materials										0.24						5,100.00		1.00	5100	408.00	No	0.00	406.00
Materials	F10 F10	Brick/block walling Brick/block walling	Bricks (common)	ICE 1	3 8.2					0.22				1700 1700		5,100.00 13,940.00	2,482.00	1.00	5100 13940	374.00 2,482.00	No	0.00	374.00 2482.00
Materials	F10	DIEK DIEK Walling	Bricks (facing)	ICE 1	8.2					1.45				1700		13,940.00	2,462.00	1.00	13940	2,482.00	No	0.00	2482.00
Materials	M50	Flexible floor coverings	Carpet Nylon		67.90 - 14											#WALUE!	#WALUE!	1.00	#VALUE!	#VALUE!	No	0.00	#VALUE!
Materials	M50	Flexible floor coverings	Carpet tiles, nylon (Polyamide), pile weight 770g/m2	ICE 2		279					1	13.7			4.6	1,283.40	63.02	1.00	1283.4	63.02	No	0.00	63.02
Materials	P10	Proofing: Insulation	Cellular glass insulation	ICE 1 & 2	27											0.00	0.00	1.00	0	0.00	No	0.00	0.00
Materials Materials	P10 P10	Proofing: Insulation	Celulose insulation (loose fil)	ICE 1 & 2 ICE 2	0.94									43		40.42	0.00	1.00	40.42	0.00	Yes	0.00	0.00
Materials Materials	P10 Z21	Proofing: Insulation Monter	Cellulose insulation (loose fil) Cement mortar (1:3)	ICE 2	3.3 1.33					0.20	0			43		141.90	0.00	1.00	141.9	0.00	Yes	0.00	0.00
INTERPORTER S																	0.00				PND .	0.00	





EN 15978





- Each row is a component of an element (3 to 20 components make up an element)
 - (framing insulation lining)
- Each group of components makes an element (up to 39 make up a building)
 - (partition, wall, floor, roof)
- Each column is an EN 15804 stage A-D or subdivision column
- Each group of columns is an environmental impact (7 groups 7 impacts 1 is carbon=)





GBC V2 Conductivities right columns inconsistent format Reformatted

		Choose				i			ĩ							
_	Choose		Choose	Choose	Multiple	Multiple	Multiple			Note: If available, certified test values should be used in preference to						
	Conductivities	© GBE Green Building Calculator 2011-2021								those in this table						
CAWS	Element	Component	Primary Function	Generic Material/Product	Manufacturer	Product Reference	Product Code	Initials	Format	Common Building Materials	Density p	Thermal Conductivity λ	Thickness	Thickness	Resistivity	U value
0	Wall/Floor/Roof/Etc.	Position/Application	Insulation/Structure/VCL/BM		Company name	Product Name	Model No.	Individual codes	Quit/Batt/Foam/Board/Block/etc.	Wood fibre/Sheep's wool/Fired clay/straw board/etc.	kg/m ^a	W/m.K	mm	m	m2.K/W	W/m2.K
	Choose from Drop Down List 20 External Walls (EW)	Choose from Drop Down List Choose	Choose from Drop Down List Choose	Choose from Drop Down List	Type information below Not applicable	Type information below Not applicable	Type information below Not applicable		B			0.050	10.5	0.0105	1000	10000
K10 K10	20 External Walls (EW) 20 External Walls (EW)	Choose	Choose	Sector Generic material Sector Generic material	Not applicable	Not applicable	Not applicable		Boards Boards/Linings	Gypsum plasterboard Gypsum plasterboard	900 900	0.160	12.5 12.5	0.0125	#REF!	#REF1 #REF1
K13	20 External Walls (EW)			Sector Generic material	Not applicable	Not applicable	Not applicable		Boards/Linings/Patrass	Gypsum fibre reinforced board	900	0.360	12.5	0.0125	#REF1	WREF!
F10	20 External Walls (EW)	Outer leaf	Structure	Sector Generic material	Not applicable	Not applicable	Not applicable		Brick/Wall	Brickwork (outer leaf)	1700	0.770	102	0.102	WREF!	#REF!
F10	20 External Walls (EW)	Outer leaf	Structure	Sector Generic material	Not applicable	Not applicable	Not applicable		Brick/Wall	Brickwork (inner leaf)	1700	0.560	102	0.102	#REF!	WREF!
F10	20 External Walls (EW)		Structure	Sector Generic material	Not applicable	Not applicable	Not applicable		Block/Wall	Concrete block (medium density)	1400	0.570	100	0.1	#REF1	#REF!
F10	20 External Walls (EW)		Structure	Sector Generic material	Not applicable	Not applicable	Not applicable		Block/Wall	Concrete block (low density)	600	0.180	100	0.1	#REF!	#REF1
F10	20 External Walls (EW)	Inner leaf	Structure	Sector Generic material	Not applicable	Not applicable	Not applicable		Block/Wall	Concrete (medium density) (inner leaf)	1800	1.130	100	0.1	#REF1	#REF1
F10	20 External Walls (EW) 20 External Walls (EW)	Inner leaf	Structure	Sector Generic material	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable		Block/Wall	Concrete (medium density) (inner leaf)	2000	1.330	100	0.1	#REF1	#REF!
E10	20 External Walls (EW) 20 External Walls (EW)	Inner leaf	Structure	Sector Generic material Sector Generic material	Not applicable	Not applicable	Not applicable		Block/Wall Insitu cast	Concrete (medium density) (inner leaf)	2200 2400	1.930	100	0.1	#REF!	#REF!
E10	20 External Walls (EW) 20 External Walls (EW)		Structure	Sector Generic material	Not applicable	Not applicable	Not applicable		Insitu cast	Concrete (high density) Reinforced concrete (1% steel)	2400	2.300	300	0.8	#REF!	WDEE1
E10	20 External Walls (EW)			Sector Generic material	Not applicable	Not applicable	Not applicable		Insitu cast	Reinforced concrete (2% steel)	2400	2.500	300	0.3	#REF!	#REF!
Z21	20 External Walls (EW)	inner leaf mortar bedding		Sector Generic material	Not applicable	Not applicable	Not applicable		Joints	Mortar (protected) (inner leaf)	1750	0.880	100	0.1	#REF!	#REF!
Z21	20 External Walls (EW)	inner leaf mortar bedding		Sector Generic material	Not applicable	Not applicable	Not applicable		Joints	Mortar (exposed) (outer leaf)	1750	0.940	100		#REF!	#REF!
M20	20 External Walls (EW)			Sector Generic material	Not applicable	Not applicable	Not applicable		Plaster coat	Gypsum lightweight	600	0.180	13		#REF!	#REF!
M20	20 External Walls (EW) 20 External Walls (EW)			Sector Generic material	Not applicable	Not applicable	Not applicable		Plaster coat	Gypsum (medium density)	900	0.300	13		#REF!	#REF!
M20	20 External Walls (EW) 20 External Walls (EW)			Sector Generic material Sector Generic material	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable		Plaster coat	Gypsum (dense)	1200	0.430 2.300	13 100	0.013	#REF! #REF!	#REF! #REF!
F20 F20	20 External Walls (EW) 20 External Walls (EW)			Sector Generic material	Not applicable	Not applicable	Not applicable		Blocks/Stones/Slabs/Tiles/ Blocks/Stones/Slabs/Tiles/	Sandstone Limestone. soft	2600	1.100	100	0.1	#REF!	#REF!
F20	20 External Walls (EW)			Sector Generic material	Not applicable	Not applicable	Not applicable		Blocks/Stones/Slabs/Tiles/	Limestone, son	2200	1.700	100		#REF!	#REF!
P10	20 External Walls (EW)			Sector Generic material	Not applicable	Not applicable	Not applicable		Boards/insulation	Fibreboard	400	0.100	100	0.01		#REF!
K10	20 External Walls (EW)			Sector Generic material	Not applicable	Not applicable	Not applicable		Boards/Linings	Plasterboard	900	0.250	12.5	0.0125	#REF!	#REF!
K10	20 External Walls (EW)			Sector Generic material	Not applicable	Not applicable	Not applicable		Boards/Linings	Plasterboard foil faced	900	0.250	12.5	0.0125	#REF!	#REF!
M40	20 External Walls (EW)			Sector Generic material	Not applicable	Not applicable	Not applicable		Tiles	Tiles ceramic	2300	1.300	6	0.005	#REF!	#REF!
G20	20 External Walls (EW) 20 External Walls (EW)			Sector Generic material	Not applicable	Not applicable	Not applicable		Timber sections	Timber (softwood)	500	0.130	150	0.15		#REF!
G20				Sector Generic material Sector Generic material	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable		Timber sections	Timber (softwood)	700	0.180	150	0.15	#REF!	#REF!
G20 G20	Floors			Sector Generic material	Not applicable	Not applicable	Not applicable		Timber sections Timber sections	Hardwood timber	500	0.130	25 18	0.025	WREF1	WREFT
G20	Floors			Sector Generic material	Not applicable	Not applicable	Not applicable		Timber sections	softwood timber	1000	0.240	18	0.018	WREE!	WREF!
K11	Walls			Sector Generic material	Not applicable	Not applicable	Not applicable		Rigid Panels	Softwood plywood	500	0.130	18	0.018	MREF1	WREF1
K11	Walls			Sector Generic material	Not applicable	Not applicable	Not applicable		Rigid Panels	Softwood plywood	1000	0.240	18	0.018	#REFI	#REF1
K11	Walls			Sector Generic material	Not applicable	Not applicable	Not applicable		Rigid Panels	softwood chipboard	500	0.130	18	0.018	#REF1	#REF1
K11	Walls			Sector Generic material	Not applicable	Not applicable	Not applicable		Rigid Panels	softwood chipboard	1000	0.240	18	0.018	#REF!	#REF!
G10	Walls			Sector Generic material	Not applicable	Not applicable	Not applicable			Steel	7800	50.000	5	0.005	#REF!	#REF!
Z113	Walls			Sector Generic material	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable		Rigid sheet	Stainless steel	7900	17.000	1	0.001	#REF!	#REF!
M20 M20	Walls Walls			Sector Generic material Sector Generic material	Not applicable	Not applicable	Not applicable		External render Internal plaster	External rendering Plaster (dense)	1300 1300	0.570	19		#REF!	#REF!
M20	Walls			Sector Generic material	Not applicable	Not applicable	Not applicable		Internal plaster	Plaster (lightweight)	600	0.180	12		#REF!	#REF!
E10	Walls			Sector Generic material	Not applicable	Not applicable	Not applicable	RC	Insitu	Reinforced concrete (1% steel)	2300	2.300	300		#REF!	#REF!
E10	Walls			Sector Generic material	Not applicable	Not applicable	Not applicable	RC	Insitu	Reinforced concrete (2% steel)	2400	2.500	300	0.3	#REF!	#REF!
E10	Roofs			Sector Generic material	Not applicable	Not applicable		ACS	Slab	Aerated concrete slab	500	0.160	150	0.15	#REF!	#REF!
J21	Roofs/Floor/Tanking			Sector Generic material	Not applicable	Not applicable	Not applicable	A	Coating	Asphalt	2100	0.700	20	0.02		#REF!
J M10	Roofs			Sector Generic material	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable		Flexible membrane	Felt/bitumen layers	1100	0.230	7	0.007	#REF!	#REF!
	Roofs Roofs			Sector Generic material Sector Generic material	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable		Levelling Screed/Wearing surface/Structural Topping	Screed Stops chimings	1200 2000	2.000	25 10	0.025	#REF! #REF!	#REF! #REF!
Q23 H6	Roofs			Sector Generic material	Not applicable	Not applicable	Not applicable		Loose gravel Rigid overlap tiles	Stone chippings Tiles (clay)	2000	1.000	10	0.00	#REF! #REF!	#REF!
0	Roofs			Sector Generic material	Not applicable	Not applicable	Not applicable		Rigid overlap tiles	Tiles (concrete)	2100	1.500	10	0.01		#REF!
	Roofs			Sector Generic material	Not applicable	Not applicable	Not applicable		Rigid slab	Wood wool slab	500	0.100	50	0.05	#REF!	#REF!
E10	Floors			Sector Generic material	Not applicable	Not applicable	Not applicable		Cast insitu	Cast concrete	2000	1.350	300	0.3	#REF!	#REF!
E10	Floors			Sector Generic material	Not applicable	Not applicable	Not applicable		Cast insitu	Reinforced concrete (1% steel)	2300	2.300	300	0.3	#REF!	#REF1
E10	Floors			Sector Generic material	Not applicable	Not applicable	Not applicable		Cast insitu	Reinforced concrete (2% steel)	2400	2.500	300	0.3	#REF!	#REF!
M10	Floors			Sector Generic material Sector Generic material	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable		Rigid sheet	Metal tray (steel)	7800	0.410	2 45	0.002	#REF!	#REF!
G20	Floors			Sector Generic material Sector Generic material	Not applicable	Not applicable	Not applicable Not applicable		Levelling Screed/Wearing surface/Structural Topping Rigid sections	Screed Hardwood timber	1200	0.410	45 25	0.045	WREF!	WREE!
G20 G20	Floors			Sector Generic material	Not applicable	Not applicable	Not applicable		Rigid sections	softwood timber	500	0.180	25	0.025	WREE!	WREET
G20	Floors			Sector Generic material	Not applicable	Not applicable	Not applicable		Rigid sections	softwood timber	1000	0.240	18	0.018	WREF1	#REF1
K11	Floors			Sector Generic material	Not applicable	Not applicable	Not applicable		Rigid Sheet	softwood plywood	500	0.130	18	0.018	#REFI	#REF!
K11	Floors			Sector Generic material	Not applicable	Not applicable	Not applicable		Rigid Sheet	softwood plywood	1000	0.240	18	0.018	#REF!	#REF1
K11	Floors			Sector Generic material	Not applicable	Not applicable	Not applicable		Rigid Sheet	softwood chipboard	500	0.130	18		#REF!	#REF!
K11	Floors			Sector Generic material	Not applicable	Not applicable	Not applicable		Rigid Sheet	softwood chipboard	1000	0.240	18		#REF!	#REF!
P10	Thermal or acoustic Insulation		Insulating	Sector Generic material Sector Generic material	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable		Board Quilt	Expanded polystyrene (EPS) board	15	0.040	400		#REF! #REF!	#REF! #REF!
P10 P10	Thermal or acoustic Insulation Thermal or acoustic Insulation		Insulating Insulating	Sector Generic material Sector Generic material	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable		Quitt Batt	Mineral wool quilt Mineral wool batt	12 25	0.042	420 380		#REF! #REF!	#REF! #REF!
P10	Thermal or acoustic insulation		Insulating	Sector Generic material	Not applicable	Not applicable	Not applicable		Boards, Foam	Phenolic foam board	30	0.038	250		#REF! #REF!	#REF!
P10			Insulating	Sector Generic material	Not applicable	Not applicable	Not applicable		Boards, Foam Boards, Foam	Phenolic foam board	35	0.025	250		#REF!	
P10	Thermal or acoustic Insulation		Insulation	Sector Generic material	Not applicable	Not applicable	Not applicable		Boards Foam	Polyurethane board PUR	30	0.025			#REF!	



GBC V2



https://GreenBuildingEncyclopaedia.uk

Conductivities updated More data needed

Format	Common Building Materials	Density	Weight/Area	Thermal Conductivity k value	Thickness	Thickness	Resistivity	U value
		р		λ			R	U
Quilt/Batt/Foam/Board/Block/etc.	Wood fibre/Sheep's wool/Fired clay/straw board/etc.	kg/m³	kg/m2	W/m.K	mm	m	m2.K/W	W/m2.K
	1	2	3	4	5	6	7	8
Floor spacers			#VALUE!			#VALUE!	#VALUE!	#VALUE!
Floor spacers			#VALUE!	-		#VALUE!	#VALUE!	#VALUE!
Floor spacers			#VALUE!			#VALUE!	#VALUE!	#VALUE!
	Accessory: Floor spacers, 200mm		#VALUE!		200	0.2	#VALUE!	#VALUE!
	Accessory: Floor spacers, 60mm		#VALUE!		60	0.06	#VALUE!	#VALUE!
	Accessory: Floor spacers, 80mm		#VALUE!		80	0.08	#VALUE!	#VALUE!
Liquid applied coating	Adhesive: Bitumen	1050	#VALUE!	0.230		#VALUE!	#VALUE!	#VALUE!
Liquid applied coating	Adhesive: Bitumen	1700	#VALUE!	0.200		#VALUE!	#VALUE!	#VALUE!
Liquid applied coating	Adhesive: Bitumen Coating	1050	#VALUE!	0.250		#VALUE!	#VALUE!	#VALUE!
Liquid applied coating	Adhesive: Bitumen, 10mm	1700	17	0.200	10	0.01	0.050	20.000
Adhesive	Adhesive: Synthetic resin-based	1200	#VALUE!	0.900		#VALUE!	#VALUE!	#VALUE!
Undisturbed Subsoil	Aggregate & Sand: Dry Gravel	1200	#VALUE!	1.500	1000	1	0.667	1.500
Undisturbed Subsoil	Aggregate & Sand: Dry Sand		#VALUE!	1.500	1000	1	0.667	1.500
Loose Aggregate	Aggregate & sand: Gravel	1800	#VALUE!	0.700	1000	#VALUE!	#VALUE!	#VALUE!
Consolidated laver	Aggregate & Sand: gravel or crushed rock	2240	#VALUE!	1.300		#VALUE!	#VALUE!	#VALUE!
Consolidated layer	Aggregate & Sand: gravel or crushed rock, 100mm	2240	224	1.300	100	0.1	0.077	13.000
Loose Aggregate	Aggregate & sand: Gravel, 50mm	1800	90	0.700	50	0.05	0.071	14.000
Loose gravel	Aggregate & Sand: Stone: chippings	1600	#VALUE!	0.700		#VALUE!	#VALUE!	#VALUE!
Loose gravel	Aggregate & Sand: Stone: chippings	1600	#VALUE!	0.700		#VALUE!	#VALUE!	#VALUE!
Loose gravel	Aggregate & Sand: Stone: chippings, 10mm	2000	20	2.000	10	0.01	0.005	200.000
Undisturbed Subsoil	Aggregate & Sand: Wet Gravel		#VALUE!	2.000	1000	1	0.500	2.000
Undisturbed Subsoil	Aggregate & Sand: Wet Gravel		#VALUE!	2.000	1000	1	0.500	2.000
Air space	Air space: heat flow downwards, 100mm				100	0.1	0.22	
Air space	Air space: heat flow downwards, 10mm				10	0.01	0.15	
Air space	Air space: heat flow downwards, 15mm				15	0.015	0.17	
Air space	Air space: heat flow downwards, 25mm				25	0.025	0.19	
Air space	Air space: heat flow downwards, 300mm				300	0.3	0.23	
Air space	Air space: heat flow downwards, 50mm				50	0.05	0.21	
Air space	Air space: heat flow downwards, 5mm				5	0.005	0.11	
Air space	Air space: heat flow downwards, 7mm				7	0.007	0.13	
Air space	Air space: heat flow horizontal, 100mm				100	0.1	0.18	
Air space	Air space: heat flow horizontal, 10mm				10	0.01	0.15	

GBC V2 & GBC V3 Intelligent DDL & LUT

alue Total DDL (23/03/2022) Elemental U value Blocks EUVDDL Name EUVDDL shorter M

Alphabetic order	Alphabetic order	Alphabetic order	Alphabetic order	
Choose	Choose	Choose	Choose	
ACCESSORY:	ACCESSORY:	AccessoryEUVDDL	AccessoryEUVDDL	Ger
cessory: Floor spacers, 200mm	Accessory: Floor spacers, 200mm		AdhesiveEUVDDL	Pro
ccessory: Floor spacers, 60mm	Accessory: Floor spacers, 60mm		Aggregates&SandEUVDDL	Acc
ccessory: Floor spacers, 80mm	Accessory: Floor spacers, 80mm	•	AirSpaceEUVDDL	Sub
	ADHE SIVE:	AdhesiveEUVDDL	CladdingEUVDDL	Sys
ADHE SIVE:	Choose		ConcreteInsituEUVDDL	Elei
Adhesive: Bitumen	Adhesive: Bitumen		ConcretePrecastReinforcedEUVDDL	
Adhesive: Bitumen Coating	Adhesive: Bitumen Coating		ExternalWallFinishshEUVDDL	Oth
Adhesive: Bitumen, 10mm	Adhesive: Bitumen, 10mm 2020-23 GBC Green BuildingRetrof	t Calculator	GlazingEUVDDL	
Adhesive: Synthetic resin-based	Adhesive: Synthetic resin-based		ImpactSoundInsulationEUVDDL	

GBC V2 Material Product Data EEECSC EPD Data Collected becomes Look Up Table

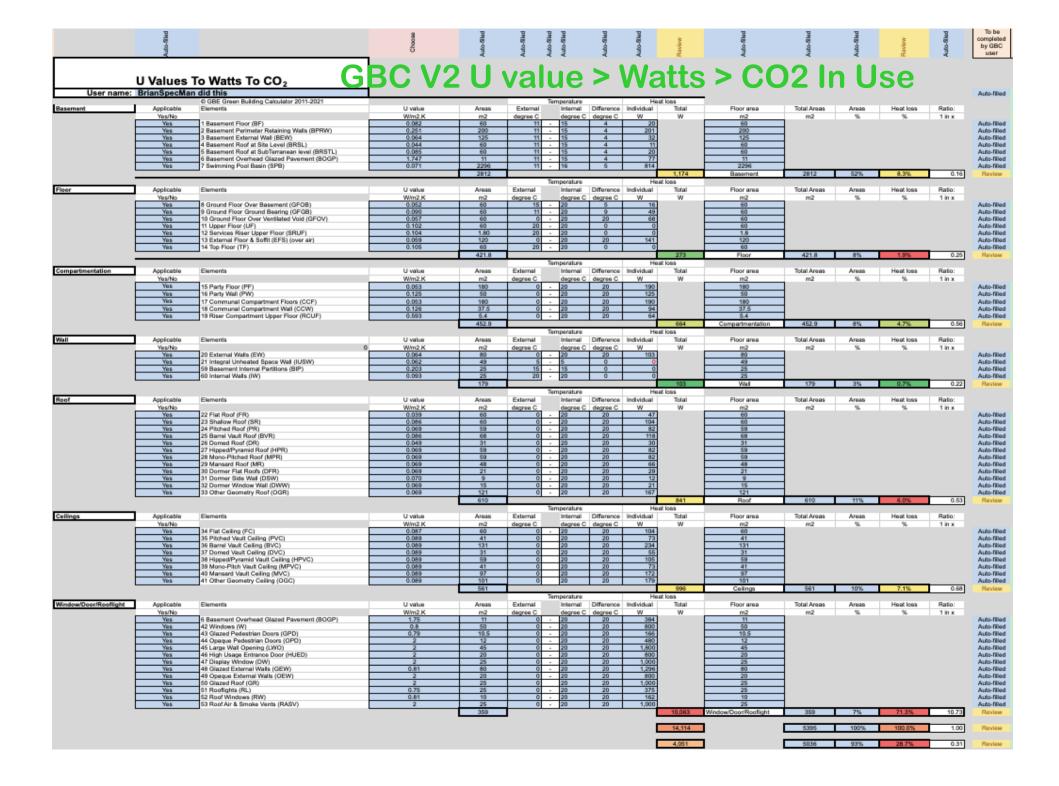






GBC V2 Secondary Elements Windows & Glazing options

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GBC V2 In-use Energy Carbon Costs

				Yes	Yes	Yes	Yes	Yes	Yes	Yes			Auto-filled
GBC V2	Total Conduction Heat Loss	Areas		Basement	Compartmentation	Floor	Wall	Roof	Ceiling	Windows, Glazing & Doors			
Total	Total Envelope Area Conducted Heat Loss (TEACHL)	3204	m ²	621	453	421.8	179	610	561		ſ	2845	Auto-filled
Window/Door/Rooflight	Total Transparent Area Conducted Heat Loss (TEACHE)	359	m²	Areas	400	421.0	173	010	301	359		358.5	Auto-filled
Walls Roof Floor	Total Opague Area Conducted Heat Loss (TOACHL)	2845	m²	hiddo	J					000	ı	000.0	Auto-filled
	Envelope element areas as % of whole envelope	2040	%	19%	14%	13%	6%	19%	18%	11%	I	100%	Plato-Iniou
Window/Door/Rooflight	Transparent area as % of whole	12.60%	%	1070				1070	1070		ı	10070	Auto-filled
	In-Use Energy						0.70						
		Total heat loss via elements:	%	2.0%	5.1%	2.1%	0.7%	7.1%	8.3%	74.7%			
	Floor area	3,204	m²	Basement	Compartmentation	Floor	Wall	Roof	Ceiling	Windows, Glazing & Doors	,	10175 0010	Auto-filled
	Watts KiloWatts	13,476 13.476	W	271 0.27	681 0.68	285 0.28	100	957 0.96	1,116	10,066		13475.8812 13.4759	Auto-filled Auto-filled
	kiloWattHours	107.8	kW	2.17	5.44	2.28	0.80	7.66	8.93	80.53		107.8070	Auto-filled
-	KiloWatthours KiloWatts/floor area	0.004	kWh kW/m ²	0.0001	0.0002	0.0001	0.000	0.0003	0.0003	0.0031		0.0042	Auto-filled
-	KiloWattS/loor area	0.0336	kWh/m ²	0.0007	0.0002	0.0007	0.0002	0.0003	0.0028	0.0251		0.0336	Auto-filled
-	KiloWattHours/Floor area/annum	40.8262	kWh/m²/Year	0.82	2.06	0.86	0.30	2.90	3.38	30,50		40.8262	Auto-filled
	Riowathours/riou area/arinum	40.0202	Kwwn/nn / Teal	0.02	2.00	0.00	0.50	2.50	3.30	30.00	L	40.0202	Auto-Iniou
-													
	In-Use Carbon Dioxide	CO ₂	Carbon Dioxide										
1	Fuel Choice	Grid Electricity Mix: UK 2020	Drop Down List	Basement	Compartmentation	Floor	Wall	Roof	Ceiling	Windows, Glazing & Doors			Choose
1	CO ₂ equivalent		kg CO2eq/kWh										
1	CO ₂	0.186	kg CO ₂ /kWh										Auto-filled
	conversion												
1	kg CO ₂	20.052	kg CO2										Auto-filled
]	kg CO ₂ /m ²	8,458	kg CO2/m2	170	427	179	63	601	700	6,318			Auto-filled
							_						
	In-Use Hours	h/d	Unit			0/ h.t.							
		h/d 8				% h/y							
lodation N14 or edit here	e Hours of operation/day (spaces heated or cooled)	8	h/d	up to max	24								Review
	Days per week (spaces heated or cooled)	'	d/wk	up to max	7								Yes
	Weeks per month (spaces heated or cooled)	4.33	w/m	up to max	4.33								Auto-filled
	Months per year (spaces heated or cooled)	5	m/y	up to max	12								Yes
	Weeks per year (spaces heated or cooled)	21.67	w/y	up to max	52								Auto-filled
	Days per year (spaces heated or cooled)	151.67	d/y	up to max	365		-						Auto-filled
	Hours per year (spaces heated or cooled)	1213.33	h/y	up to max	8760	13.85%							Auto-filled
										- <u> </u>			
	In-Use Costs	Total		Basement	Compartmentation	Floor	Wall	Roof	Ceiling	Windows, Glazing & Doors			
-	Fuel Choice	Oil to DHW	Drop Down List	Dasement	Comparationadori	11001	vvan	11001	Coming	Windows, Clazing & Doors			Choose
	£ costs/unit of fuel:	0.468	£/kWh	0.009	0.024	0.010	0.003	0.033	0.039	0.349	£/kWh		Auto-filled
-	2 costardnit or idei.	0.400	LINWIT	0.003	0.024	0.010	0.005	0.035	0.055	0.545	LINVII		Auto-Inieu
-	Ender the state of Enderson		1 1			[1		1	1			
	Embodied Energy	Total		Basement	Compartmentation	Floor	Wall	Roof	Ceiling	Windows, Glazing & Doors			
		#N/A	MJ	1.071.033	81.256	#N/A	39,427	465,092	#N/A	223,560	MJ		Auto-filled
	Embodied Carbon			_									
	Empodied Carbon	Total		Basement	Compartmentation	Floor	Wall	Roof	Ceiling	Windows, Glazing & Doors			
		#N/A	kg CO ₂	39,301	3,819	#N/A	2,517	20,690	#N/A	12,730	kg CO2		Auto-filled
	Sequestered Carbon	Total		Descent	O	F 1	Wall	Roof	Onillan	Mindaux Clasics & Dave			
	Dequestered Oarbon			Basement	Compartmentation	Floor			Ceiling	Windows, Glazing & Doors			
		#N/A	kg CO ₂	39,880	35,840	#N/A	35,088	147,134	#N/A	19,420	kg CO2		Auto-filled
			1		1		1		1	1			
	Total Carbon	Total		Basement	Compartmentation	Floor	Wall	Roof	Ceiling	Windows, Glazing & Doors			
-		#N/A	kg CO ₂	-579	-32,021	#N/A	-32,571	-126,445	#N/A	-6,690	kg CO2		Auto-filled
		mura	Ng 002	-078	-32,021	mun	-52,571	-120,443	minuA	-0,050	Ng 002		Auto-filled
			1		1		1			1			
	Total Build Cost	Total		Basement	Compartmentation	Floor	Wall	Roof	Ceiling	Windows, Glazing & Doors			
		£305,115.77	£	£45,996.00	£27,940.00	£0.00	£12,384.00	£59,872.57	£37,353.21	£96,850.00	£		Auto-filled
-		2000,110,11	~	210,000.00	121,040.00	20.00	2.2,004.00	200,012.01	201,000.21	200,000.00	~		Auto-Inieu

GBC V2 Then add: Carbon targets Pass or Fail GBC V2 Then add: Cost Pay Back Carbon Pay Back Value Engineering





GBC V2 Costs to users

Completed by GBC	GBC V2	Yes	Yes	Yes
	V2 Prices	V1 One off payment (no longer available when V2 is launched)	V2 One off (with corrections but no future developments)	V2 Annual renewal subscription (with future developments)
	Larger practice	£98.88	£98.88	£98.88
	Six to ten person practice		£78.88	£78.88
	One to five person practice	£48.88	£48.88	£48.88
	Graduate, employee (Own use)		£8.88	£8.88
	University Professor, Tutor, Lecturer (to show/demo)		£8.88	£8.88
	University Professor, Tutor, Lecturer (to hangout to one student cohort)		£98.88	£98.88
	Student (own use only)	£4.88	£4.88	£4.88
	Self Builders, TAN6 OPD Wales	£4.88	£4.88	£4.88
	Other Self Builders, BIY, DIY, Self-Managers	£48.88	£48.88	£48.88
	GBC V1.1 (Lite demo)		£1.88	
	GBC V2 (view only non-functioning) explore before you buy		£1.88	

GBC V2-GBC V36 Planned Development

Priorities to bring forward:

- Retrofit, Terraces, Community level, MEP Services,
- GBC V3 Decrement Delay, Form Factor refinements: dormers, bays, porches
- GBC V4 Building Section Coding, Competent Application,
- 892 ready made elements, Bespoke Assemblies, Accessories, Specification Generator
- GBC V5 Non-Domestic, Retrofit and Newbuild more refinement
- GBC V6 Embodied Energy, Carbon and Sequestered carbon; Non-external envelope elements
- GBC V7 Condensation Check, Thermal Bridge, Secondary Element Calculator, Thermal mass calculator
- GBC V8 LCA Calculator
- GBC V9 Landscape
- GBC V10 Civils and Infrastructure: scope Increased
- GBC V11 Waste Calculator using WasteCost®Lite
- GBC V12 Plastic free v Recycled Plastic
- GBC V13 Interiors: Scope increased, Ska fit-out. refit
- GBC V14 Circular economy: Reclaim Reuse
- GBC V15 Self-build Interface
- GBC V16 CAD BIM App
- GBC V17 Whole Project Budget Calculations, full Fee bid calculation based on cost plan
- GBC V18 EU and International versions

Nutrition

- GBC V21 Biodiversity Inclusion, Biodiversity Net Gain
- GBC V22 Local Climate Appropriate construction and materials
- GBC V23 Vernacular, local: materials, trades, economy
- GBC V24 GBPB Green Building Price Book
- GBC V25 O&MM Operation & Maintenance Manuals
- GBC V26 FM Specification
- GBC V27 Local Procurement, Transport to site, distance search facility
- GBC V28 On Site Construction Emissions
- GBC V29 Design Life, Durability and Competent Products
- GBC V30 Air tightness & Energy Loss
- GBC V31 Value Engineering Opportunities: in not out
- GBC V32 Healthy Building
- GBC V33 Screening Priorities
- GBC V34 Indoor Air Quality
- GBC V35 Natural Lighting Levels
- GBC V36 Demolition Embodied carbon in waste

B Bespoke

- GBC B1 Retrofit Window & Insulation Calculator
- GBC B2 Responsible retrofit Carbon Calculator
- GBC B3 Window Calculator
- GBC B4 Screeds Calculator
- GBC V19 Services Design Module: Occupancy level, Energy, GBC B5 NRM4 QS interface Sources and uses, © 2020-23 GBC Green BuildingRetrofit Calculator
- GBC V20 Lighting Design Module: Health & Wellbeing, Light





GBC V1 Awards/Shortlist

- 3 months after GBC V1 launch
 - Green Apple 2020-21 Award Winner
 - Category and metal to be announced
 - Central England Prestige 2020-21 Winner
 - November announcement
 - Construction Computing 2020 Awards
 Shortlisted but no award
 - Innovation of the year 2020
 - One to watch Company 2020
 - •

reapply

- LSI RISE Awards 2021:
 - Highly Commended
 - Category: Education & Training Calculator















GBRC B6 Retrofit

STBA & HES Responsible Retrofit Options Appraisal & Carbon Calculator







Green Retrofit Calculator

https://GreenBuildingCalculator.uk









Developed by BrianSpecMan of GBC and Peter Draper of STBA Presented by BrianSpecMan



English Housing Survey: 8 Eras 7 House formats, Floor areas, Plot areas numbers of rooms, number of bedrooms **Ranges and averages Demolitions Alterations Conversions** International comparison https://www.gov.uk/ government/collections/ english-housing-survey **Up to 2021**

Scottish equivalent data

Ministry of Housing, Communities & Local Government

English Housing Survey

Floor Space in English Homes - main report



GBC B2 House Type Data Sets > 1 England and Scotland

B2 Standard House Types Building Data table BDT1 & BDT0	Choose	Choose	Yes	Yes	Yes	Yes	Yes	Yes	Choose	No
House Type Look Up Reference (Concatenated)	DDL7	Construction Era	Site Location Postcode	Site Location City	Existing Wall Material	Existing Wall Format	Existing Wall Thickness (mm)	Internal finish	Previous External Wall Insulation Position	Previous External Wall Ins Material
Alphabetic order (in use)	Drop Down List	Drop Down List							Drop Down List	
EnglandWalesNireland:1919 to 1944:Detached House	English Housing Survey (EW&NI)	1919 to 1944	CV13 6AZ	Fenny Drayton	Brick	Solid Masonry	330	Lime Plaster	External	Expanded Polystyre
EnglandWalesNireland:1919 to 1944:End Terrace	English Housing Survey (EW&NI)	1919 to 1944	CV13 6AZ	Fenny Drayton	Brick	Solid Masonry	230	Lime Plaster	External	Expanded Polystyre
EnglandWalesNireland:1919 to 1944:Flat/Apartment	English Housing Survey (EW&NI)	1919 to 1944	CV13 6AZ	Fenny Drayton	Brick	Solid Masonry	230	Lime Plaster	External	Expanded Polystyre
EnglandWalesNIreland:1919 to 1944:Mid Terrace	English Housing Survey (EW&NI)	1919 to 1944	CV13 6AZ	Fenny Drayton	Brick	Solid Masonry	230	Lime Plaster	External	Expanded Polystyre
EnglandWalesNIreland:1919 to 1944:Semi-Detached	English Housing Survey (EW&NI)	1919 to 1944	CV13 6AZ	Fenny Drayton	Brick	Solid Masonry	330	Lime Plaster	External	Expanded Polystyre
EnglandWalesNireland:Post 1944:Bungalow	English Housing Survey (EW&NI)	Post 1944	CV13 6AZ	Fenny Drayton	Brick/Air/Brick	Cavity Masonry	280	Lime Plaster	External	Expanded Polystyre
EnglandWalesNireland:Post 1944:Detached House	English Housing Survey (EW&NI)	Post 1944	CV13 6AZ	Fenny Drayton	Brick/Air/Brick	Cavity Masonry	280	Lime Plaster	External	Expanded Polystyre
EnglandWalesNireland:Post 1944:End Terrace	English Housing Survey (EW&NI)	Post 1944	CV13 6AZ	Fenny Drayton	Brick/Air/Brick	Cavity Masonry	280	Lime Plaster	External	Expanded Polystyre
EnglandWalesNireland:Post 1944:Flat/Apartment	English Housing Survey (EW&NI)	Post 1944	CV13 6AZ	Fenny Drayton	Brick/Air/Brick	Cavity Masonry	280	Lime Plaster	External	Expanded Polystyre
EnglandWalesNIreland:Post 1944:Mid Terrace	English Housing Survey (EW&NI)	Post 1944	CV13 6AZ	Fenny Drayton	Brick/Air/Brick	Cavity Masonry	280	Lime Plaster	External	Expanded Polystyre
EnglandWalesNIreland:Post 1944:Semi-Detached	English Housing Survey (EW&NI)	Post 1944	CV13 6AZ	Fenny Drayton	Brick/Air/Brick	Cavity Masonry	280	Lime Plaster	External	Expanded Polystyre
EnglandWalesNIreland:Pre 1919:Bungalow	English Housing Survey (EW&NI)	Pre 1919	CV13 6AZ	Fenny Drayton	Stone	Solid Masonry	450	Lime Plaster	External	Expanded Polystyre
EnglandWalesNIreland:Pre 1919:Detached House	English Housing Survey (EW&NI)	Pre 1919	CV13 6AZ	Fenny Drayton	Stone	Solid Masonry	450	Lime Plaster	External	Expanded Polystyre
EnglandWalesNIreland:Pre 1919:End Terrace	English Housing Survey (EW&NI)	Pre 1919	CV13 6AZ	Fenny Drayton	Stone	Solid Masonry	450	Lime Plaster	External	Expanded Polystyre
EnglandWalesNireland:Pre 1919:Flat/Apartment	English Housing Survey (EW&NI)	Pre 1919	CV13 6AZ	Fenny Drayton	Brick	Solid Masonry	230	Lime Plaster	External	Expanded Polystyre
EnglandWalesNIreland:Pre 1919:Mid Terrace	English Housing Survey (EW&NI)	Pre 1919	CV13 6AZ	Fenny Drayton	Stone	Solid Masonry	450	Lime Plaster	External	Expanded Polystyre
EnglandWalesNIreland:Pre 1919:Semi-Detached	English Housing Survey (EW&NI)	Pre 1919	CV13 6AZ	Fenny Drayton	Stone	Solid Masonry	450	Lime Plaster	External	Expanded Polystyre
EnglishWalesNIreland:1919 to 1944:Bungalow	English Housing Survey (EW&NI)	1919 to 1944	CV13 6AZ	Fenny Drayton	Brick	Solid Masonry	230	Lime Plaster	External	Expanded Polystyre
Scotland:Post 1919:Detached Cottage	Scottish House Condition Survey	Post 1919	PH18 5SA	Blair Atholl	Lime Render/Brick/Air/Brick	Cavity Masonry	450	Lime Plaster	External	Expanded Polystyre
Scotland:Post 1919:Detached Villa	Scottish House Condition Survey	Post 1919	PH18 5SA	Blair Atholl	Lime Render/Brick/Air/Brick	Cavity Masonry	450	Lime Plaster	External	Expanded Polystyre
Scotland:Post 1919:Flat/Apartment	Scottish House Condition Survey	Post 1919	PH18 5SA	Blair Atholl	Stone	Solid Masonry	450	Lime Plaster	External	Expanded Polystyre
Scotland:Post 1919:Semi-Detached	Scottish House Condition Survey	Post 1919	PH18 5SA	Blair Atholl	Lime Render/Brick/Air/Brick	Cavity Masonry	450	Lime Plaster	External	Expanded Polystyre
Scotland:Post 1919:Tenement	Scottish House Condition Survey	Post 1919	PH18 5SA	Blair Atholl	Stone	Solid Masonry	600	Lime Plaster	External	Expanded Polystyre
Scotland:Post 1919:Terraced House	Scottish House Condition Survey	Post 1919	PH18 5SA	Blair Atholl	Lime Render/Brick/Air/Brick	Cavity Masonry	450	Lime Plaster	External	Expanded Polystyre
Scotland:Pre 1919:Detached Cottage	Scottish House Condition Survey	Pre 1919	PH18 5SA	Blair Atholl	Stone	Solid Masonry	600	Lath and plaster inner lining	External	Expanded Polystyre
Scotland:Pre 1919:Detached Villa	Scottish House Condition Survey	Pre 1919	PH18 5SA	Blair Atholl	Stone	Solid Masonry	600	Lath and plaster inner lining	External	Expanded Polystyre
Scotland:Pre 1919:Flat/Apartment	Scottish House Condition Survey	Pre 1919	PH18 5SA	Blair Atholl	Stone	Solid Masonry	600	Lath and plaster inner lining	External	Expanded Polystyre
Scotland:Pre 1919:Semi-Detached	Scottish House Condition Survey	Pre 1919	PH18 5SA	Blair Atholl	Stone	Solid Masonry	600	Lath and plaster inner lining	External	Expanded Polystyre
Scotland:Pre 1919:Tenement	Scottish House Condition Survey	Pre 1919	PH18 5SA	Blair Atholl	Stone	Solid Masonry	600	Lath and plaster inner lining	External	Expanded Polystyre
Scotland:Pre 1919:Terraced House	Scottish House Condition Survey	Pre 1919	PH18 5SA	Blair Atholl	Stone	Solid Masonry	600	Lath and plaster inner lining	External	Expanded Polystyre





https://GreenBuildingCalculator.uk

GRC V1 B6 Paper Based Site Survey

B2	B2 Paper bas	ed site s	© STBA 2021-2022 developed by GBC a	and ST
	Survey Plot, House or Flat No.			
	Core Data Source	Site survey	 Can be developed 	a
	Construction Era		•	
	Site Location Postcode		iPad survey sheet	
	Site Location City		IF au suivey sileet	
	Existing Wall Material			
	Existing Wall Format			
	Existing Wall Thickness (mm)		. To outo food	
	Existing Internal finish		To auto-feed	
	Previous External Wall Insulation Position			
	Previous External Wall Insulation Material		bespoke building	
	Previous External Wall Insulation Thickness		bespune building	
	Habitable rooms			
	Bathrooms		types into house	
	BuildingFormat		- types into nouse	
	Total Floor Area			
	Number of Stories in house		types table	
	Area of ground floor		<u></u>	
	Ground floor construction			
	Ground floor insulation position			
	Ground Floor Insulation material		 Choose the one ne 	
	Ground Floor Insulation thickness			
	Area of Roof			
	Existing Roof Pitch		bespoke building	-
	Previous Roof Insulation Position			
	Previous Roof Insulation material			
	Previous Roof Insulation thickness		type to populate	
	House width			
	House Depth			
	HLP Heat Loss Perimeter per floor		calculation cells	
	Floor to ceiling height			





https://GreenBuildingCalculator.uk

GRC V1 Tablet Survey Feed

D		F	G	Н	
Tablet site survey	© STBA 2021-2023 developed by GBC and STBA	L			
	Site survey	Site survey	Site survey		Site survey
Concatenated Look Up Table Reference	Scottish Islands:Pre 1919:TerracedCafe	Scottish Islands:Pre 1919:TerracedCottage	Scottish Islands:Pre 1919:TerracedWorkshop	Scottish Islands:Pre 1919:VillaBottomFlat	Scottish Islands:Pre 1919:VillaMi
Survey Plot, House or Flat No.					
Core Data Source	Choose	Interreg Energy Pathfinder Survey	Interreg Energy Pathfinder Survey	Interreg Energy Pathfinder Survey	Interreg Energy Pathfinder Sur
Construction Era	Choose	Pre 1919	Pre 1919	Pre 1919	Pre 1919
Site Location Postcode	KW17 2BG	KW17 2BG	KW17 2BG	KW17 2DL	KW17 2DL
Site Location City	Café, North-West block, Dennis Ness, Orkney, North Ronaldsay	Cottage 1, South-East block, Dennis Ness, Orkney, North Ronaldsay	Workshop, North-West block, Dennis Ness, Orkney, North Ronaldsay	Flat 1, Bayview, Pierowall, Westray, Orkney	Flat 3, Bayview, Pierowall, West Orkney
Existing Wall Material	Choose	♦ Brick	Insitu Concrete	Sandstone	Sandstone
Existing Wall Format	- Choose	Solid Masonry	Solid Masonry	Solid Masonry	Solid Masonry
Existing Wall Thickness (mm)	Brick	600	600	800	800
Existing Internal finish	Brick Air Brick	Lime Plaster on the hard	Chipboard drylining	Insulated plasterboard drylining	Gypsum plasterboard
Previous External Wall Insulation Position	Lime Render Brick Air Brick	None	None	Internal	Internal
Previous External Wall Insulation Material	Stone	None	None	Phenolic foam, foil-backed	Phenolic foam, foil-backed
Previous External Wall Insulation Thickness	Insitu Concrete	0	0	120	120
Habitable rooms	Insitu Concrete	4	6	2	2
Bathrooms	Choose	1	0	1	1
BuildingFormat	Choose	Semi-Detached	Semi-Detached	Flat/Apartment (Converted)	Flat/Apartment (Converted
Total Floor Area	100.72	78.98	134.17	35.27	36.27
Number of Stories in house	Choose	1	1	1	1
Area of ground floor	#VALUE!	78.98	134.17	35.27	36.27
Ground floor construction	Choose	Suspended Timber	Solid	Solid	Suspended Timber
Ground floor insulation position	Choose	None	None	Below slab	Between Joists
Ground Floor Insulation material	None	None	None	Phenolic Foam	Unknown
Ground Floor Insulation thickness	0	0	0	100	0
Area of Roof	#VALUE!	78.98	134.17	35.27	N/A
Existing Roof Pitch	Choose	Flat Roof	Flat Roof	Party Floor Above	Party Floor Above
Previous Roof Insulation Position	Choose	Ceiling Joist level	None	None	None
Previous Roof Insulation material	None	Mineral wool	None	None	None
Previous Roof Insulation thickness	0	200	0	0	0
House width	13.7	10.79	16.73	8.4	8.51
House Depth	#VALUE!	7.55	8.02	5.07	5.07
HLP Heat Loss Perimeter per floor	#VALUE!	28.5	45.76	20.49	20.51
Floor to ceiling height	2.74	2.81	3.26	2.39	2.4
Storey (Floor to Floor) Height	2.74	3.41	3.26	2.83	2.83
Architypes	Choose	Semi-Detached	Semi-Detached	Bottom floor Flat/Apartment/ Tenament	Mid floor Flat/Apartment/ Tenar
Area of external walls minus openings	-14.17	71.16	100.16	42.62	43.32
Party wall thickness	Choose	150	200	300	300
Party Wall Format	Choose	Solid Masonry	Solid Masonry	Timber framed	Timber framed
Party wall length	0	8.18	3.74	6.34	6.58
Area of Party Walls	0	22.99	12.19	15.15	15.79
Previous Party Wall Insulation Position	None	None	None	within timber frame	within timber frame
Previous Party Wall Insulation material	None	None	None	Phenolic foam	Phenolic foam

GRC V1 GBC B2 Survey Data Sets Add any building to house types

Completed by GBC		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes Yes Yes		No	No No		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Completed by GBC	© STBA 2021- 22 developed by GBC for STBA		B2 Standard House Types Building Data table BDT1 & BDT0	Choose	Choose	Type or paste	Type or paste	Choose	Choose	Choose	Choose	Choose	Type or paste	Type or paste	Choose	Choose	Choose	Type or paste	Choose	Auto-filled	Choose	Choose	Type or Paste
Instructions																							
SlidePages	PD populate order	Application Page	House Type Look Up Reference (Concatenated)	Core Data Source	Construction Era	Site Location Postcode	Site Location City	Existing Wall Material	Existing Wall Format	Existing Wall Thickness (mm)	Existing Internal finish	Previous External Wall Insulation Position	Previous External Wall Insulation Material	Previous External Wall Insulation Thickness	Habitable rooms	Bathrooms	BuildingFormat	Total Floor Area	Number of Stories in house	Area of ground floor	Ground floor construction	Ground floor insulation position	Ground Floor Insulation materia
			Alphabetic order (in use)	Drop Down List DD7	Drop Down List			Drop Down List	Drop Down List	Drop Down List	Drop Down List	Drop Down List				Drop Down List	Drop Down List	m2	No.	m2	Drop Down List	Drop Down List	
2	2	Page 1 Page 1	EnglandWalesNireland:1919 to 1944:Detached House EnglandWalesNireland:1919 to 1944 End Terrace	English Housing Survey (EW&NI)		CV13 6AZ CV13 6AZ		Brick	Solid Masonry Solid Masonry	330 230	Lime Plaster	External	Expanded Polystyrene Expanded Polystyrene	100	6	2	End Terrace	153	2	76.5	Suspended Suspended	Between Joists Between Joists	Mineral wool, roci
2	14	Page 1	EnglandWalesNireland:1919 to 1944:End Terrace EnglandWalesNireland:1919 to 1944:Flat/Apartment	English Housing Survey (EW&NI) English Housing Survey (EW&NI)	1919 to 1944 1919 to 1944	CV13 6AZ CV13 6AZ		Brick	Solid Masonry	230	Lime Plaster	External	Expanded Polystyrene Expanded Polystyrene	100	4	1	End Terrace Flat/Apartment	55	2	41.5	Over heated space		Mineral wool, roc
2	17	Page 1	EnglandWalesNireland: 1919 to 1944: Mid Terrace	English Housing Survey (EW&NI)	1919 to 1944	CV13 6AZ		Brick	Solid Masonry	230	Lime Plaster	External	Expanded Polystyrene	100	4	1	Mid Terrace	78	2	39	Suspended	Between Joists	Mineral wool, rock
2	5	Page 1	EnglandWalesNireland:1919 to 1944:Semi-Detached	English Housing Survey (EW&NI)	1919 to 1944	CV13 6AZ		Brick	Solid Masonry	330	Lime Plaster	External	Expanded Polystyrene	100	5	2	Semi-Detached	94	2	47	Suspended	Between Joists	Mineral wool, rock
2	9	Page 1	EnglandWalesNireland:Post 1944:Bungalow	English Housing Survey (EW&NI)	Post 1944		Fenny Drayton	Brick Air Brick	Cavity Masonry	280	Lime Plaster	External	Expanded Polystyrene	100	4	1	Bungalow	75	1	75	Solid	Above Screed	Aerogel
2	3	Page 1	EnglandWalesNireland:Post 1944:Detached House	English Housing Survey (EW&NI)	Post 1944		Fenny Drayton	Brick Air Brick	Cavity Masonry	280	Lime Plaster	External	Expanded Polystyrene	100	6	2	Detached House	147	2	73.5	Suspended	Between Joists	Mineral wool, roct
2	15	Page 1 Page 1	EnglandWalesNireland:Post 1944:End Terrace EnglandWalesNireland:Post 1944:Flat/Apartment	English Housing Survey (EW&NI) English Housing Survey (EW&NI)	Post 1944 Post 1944		Fenny Drayton Fenny Drayton	Brick Air Brick Brick Air Brick	Cavity Masonry Cavity Masonry	280 280	Lime Plaster	External	Expanded Polystyrene Expanded Polystyrene	100	5	1	End Terrace Flat/Apartment	79	2	39.5 54	Suspended Over heated space	Between Joists Between Joists	Mineral wool, roci
2	12	Page 1	EnglandWatesNireland:Post 1944;Mid Terrace	English Housing Survey (EW&NI)	Post 1944		Fenny Drayton	Brick Air Brick	Cavity Masonry	280	Lime Plaster	External	Expanded Polystyrene	100	4	1	Mid Terrace	76	2	38	Suspended	Between Joists	Mineral wool, roc
2	6	Page 1	EnglandWalesNireland:Post 1944:Semi-Detached	English Housing Survey (EW&NI)	Post 1944		Fenny Drayton	Brick Air Brick	Cavity Masonry	280	Lime Plaster	External	Expanded Polystyrene	100	5	2	Semi-Detached	82	2	41	Suspended	Between Joists	Mineral wool, roch
2	7	Page 1	EnglandWalesNireland:Pre 1919:Bungalow	English Housing Survey (EW&NI)	Pre 1919	CV13 6AZ	Fenny Drayton	Stone	Solid Masonry	450	Lime Plaster	External	Expanded Polystyrene	100	4	1	Bungalow	105	1	105	Solid	Above Screed	Aerogel
2	1	Page 1	EnglandWalesNireland:Pre 1919:Detached House	English Housing Survey (EW&NI)	Pre 1919	CV13 6AZ		Stone	Solid Masonry	450	Lime Plaster	External	Expanded Polystyrene	100	6	2	Detached House	197	2	98.5	Suspended	Between Joists	Mineral wool, rock
2	13	Page 1	EnglandWalesNIreland:Pre 1919:End Terrace	English Housing Survey (EW&NI)	Pre 1919 Pre 1919		Fenny Drayton	Stone	Solid Masonry Solid Masonry	450	Lime Plaster	External	Expanded Polystyrene	100	5	1	End Terrace Flat/Apartment	104	2	52 69	Suspended	Between Joists	Mineral wool, rock
2	10	Page 1 Page 1	EnglandWalesNireland:Pre 1919:Flat/Apartment EnglandWalesNireland:Pre 1919:Mid Terrace	English Housing Survey (EW&NI) English Housing Survey (EW&NI)	Pre 1919 Pre 1919		Fenny Drayton Fenny Drayton	Stone	Solid Masonry Solid Masonry	230 450	Lime Plaster	External	Expanded Polystyrene Expanded Polystyrene	100	4	1	Hat/Apartment Mid Terrace	69	2	69 43.5	Over heated space Suspended	Between Joists Between Joists	Mineral wool, roci
2	4	Page 1	EnglandWatesNireland:Pre 1919:Semi-Detached	English Housing Survey (EW&NI)	Pre 1919	CV13 6AZ		Stone	Solid Masonry	450	Lime Plaster	External	Expanded Polystyrene Expanded Polystyrene	100	4 5	2	Semi-Detached	126	2	43.5	Suspended	Between Joists	Mineral wool, rock
2	8	Page 1	EnglishWalesNireland:1919 to 1944:Bungalow	English Housing Survey (EW&NI)	1919 to 1944	CV13 6AZ	Fenny Drayton	Brick	Solid Masonry	230	Lime Plaster	External	Expanded Polystyrene	100	4	1	Bungalow	74	1	74	Solid	Above Screed	Aerogel
2	22	Page 1	Scotland:Post 1919:Detached Cottage	Scottish House Condition Survey	Post 1919	PH18 5SA	Blair Atholl	Lime Render Brick Air Brick	k Cavity Masonry	450	Lime Plaster	External	Expanded Polystyrene	100			Small Detached Cottage					Between Joists	Mineral wool, rock
2	20	Page 1	Scotland:Post 1919:Detached Villa	Scottish House Condition Survey		PH18 5SA		Lime Render Brick Air Brick	k Cavity Masonry	450	Lime Plaster	External	Expanded Polystyrene	100	6	2	Large Detached Villa		2	66.5	Suspended	Between Joists	Mineral wool, rock
2	30	Page 1	Scotland:Post 1919:Flat/Apartment	Scottish House Condition Survey	Post 1919		Blair Atholl	Stone	Solid Masonry	450	Lime Plaster	External	Expanded Polystyrene	100	4	1	Flat/Apartment	64	1	64	Over heated space		Mineral wool, rocl
2	24	Page 1 Page 1	Scotland:Post 1919:Semi-Detached Scotland:Post 1919:Tenement	Scottish House Condition Survey Scottish House Condition Survey	Post 1919 Post 1919		Blair Atholl Blair Atholl	Lime Render Brick Air Brick Stone	Solid Masonry	450 600	Lime Plaster	External	Expanded Polystyrene Expanded Polystyrene	100	6	2	Semi-Detached	88 65	2	44 65	Suspended Over heated space	Between Joists Between Joists	Mineral wool, roci
2	26	Page 1	Scotland: Post 1919: Terraced House	Scottish House Condition Survey	Post 1919 Post 1919		Blair Atholl	Lime Render Brick Air Brid	Cavity Masonny	450	Lime Plaster	External	Expanded Polystyrene Expanded Polystyrene	100	4 5	1	Terraced House	87	2	43.5		Between Joists	Mineral wool, rock
2	20	Page 1	Scotland: Post 1919:Detached Cottage	Scottish House Condition Survey	Pre 1919		Blair Atholl	Stone	Solid Masonry	600	Lath and plaster inner lining	External	Expanded Polystyrene	100	5	-	Small Detached Cottage	0/		43.0	Suspended	Between Joists	Mineral wool, rock
2	19	Page 1	Scotland: Pre 1919: Detached Villa	Scottish House Condition Survey	Pre 1919	PH18 5SA	Blair Atholl	Stone	Solid Masonry	600	Lath and plaster inner lining	External	Expanded Polystyrene	100	6	2	Large Detached Villa	172	2	86	Suspended	Between Joists	Mineral wool, rock
2	29	Page 1	Scotland:Pre 1919:Flat/Apartment	Scottish House Condition Survey	Pre 1919	PH18 5SA	Blair Atholl	Stone	Solid Masonry	600	Lath and plaster inner lining	External	Expanded Polystyrene	100	4	1	Flat/Apartment	95	1	95	Over heated space	Between Joists	Mineral wool, rock
2	23	Page 1	Scotland:Pre 1919:Semi-Detached	Scottish House Condition Survey	Pre 1919	PH18 5SA	Blair Atholl	Stone	Solid Masonry	600	Lath and plaster inner lining	External	Expanded Polystyrene	100	6	2	Semi-Detached	127	2	63.5	Suspended	Between Joists	Mineral wool, rock
2	27	Page 1	Scotland:Pre 1919:Tenement	Scottish House Condition Survey	Pre 1919	11110 0004	Blair Atholl	Stone	Solid Masonry	600	Lath and plaster inner lining	External	Expanded Polystyrene	100	4	1	Tenement	72	1	72	Over heated space	Between Joists	Mineral wool, rocl
2	25	Page 1	Scotland:Pre 1919:Terraced House	Scotlish House Condition Survey	Pre 1919	PH18 5SA	Blair Atholl Bayview.	Stone	Solid Masonry	600	Lath and plaster inner lining	External	Expanded Polystyrene	100	5	1	Terraced House	109	2	54.5	Suspended	Between Joists	Mineral wool, roci
2		Page 1	Scottish Islands:Pre 1919:Flat/Apartment (Converted)	Interreg Energy Pathfinder Survey	Pre 1919	KW17 2DL	Pierowall, Westray, Orkney	Sandstone	Solid Masonry	800	Insulated plasterboard drylining	Internal	Phenolic foam, foil-backed	120	2	1	Flat/Apartment (Converted)	35.27	1	35.27	Solid	Below slab	Phenolic Foam
2		Page 1	Scottish Islands:Pre 1919:TerracedCafe	Interreg Energy Pathfinder Survey	Pre 1919	KW17 2BG	Café, North- West block, Dennis Ness, Orkney, North Ronaldsay	Insitu Concrete	Solid Masonry	600	Lath and plaster inner lining	None	None	0	5	2 WCs Potential Shower Bath	Small Detached Cottage	100.72	1	100.72	Suspended Timber	None	None
2		Page 1	Scotlish Islands:Pre 1919:TerracedCottage	Interreg Energy Pathfinder Survey	Pre 1919	KW17 2BG	Cottage 1, South-East block, Dennis Ness, Orkney, North Ronaldsay	Brick	Solid Masonry	600	Lime Plaster on the hard	None	None	0	4	1	Semi-Detached	78.98	1	78.98	Suspended Timber	None	None
2		Page 1	Scottish Islands.Pre 1919.TerracedWorkshop	Interreg Energy Pathfinder Survey	Pre 1919	KW17 2BG	Workshop, North-West block, Dennis Ness, Orkney, North Ronaldsay	Insitu Concrete	Solid Masonry	600	Chipboard drylining	None	None	0	6	0	Semi-Detached	134.17	1	134.17	Solid	None	None
3		Page 1	Scottish Islands:Pre 1919.VilaBottomFlat	Interreg Energy Pathfinder Survey	Pre 1919	KW17 2DL	Flat 1, Bayview, Pierowall, Westray, Orkney	Sandstone	Solid Masonry	800	Insulated plasterboard drylining	Internal	Phenolic foam, foil-backed	120	2	1	Flat/Apartment (Converted)	35.27	1	35.27	Solid	Below slab	Phenolic Foam
3		Page 1	Scotlish Islands:Pre 1919:VillaMidFlat	Interreg Energy Pathfinder Survey	Pre 1919	KW17 2DL	Flat 3, Bayview, Pierowall, Westray, Orkney	Sandstone	Solid Masonry	800	Gypsum plasterboard	Internal	Phenolic foam, foil-backed	120	2	1	Flat/Apartment (Converted)	36.27	1	36.27	Suspended Timber	Between Joists	Unknown
3		Page 1	Scottish Islands:Pre 1919-VillaTopFlat	Interreg Energy Pathfinder Survey	Pre 1919	KW17 2DL	Flat 4, Bayview, Pierowall, Westray, Orkney	Sandstone	Solid Masonry	800	Gypsum plasterboard	Wall Stud Zone	Phenolic foam	120	3	1	Flat/Apartment (Converted)	72.13	1	72.13	Over heated space	None	None
			1	2	3	4	5	6 Yes	7 Yes	8 Yes	9	10 Yes	11 Yes	12 Yes	13 Yes	14 Yes	15	16 Yes	17	18 Yes	19	20	21 Yes

GBC B2 Survey Sheet v 1

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B2 STBA Retrofit Survey Form

Options Appraisal Data Imput Context

Input into decision making choices/data will include:

Appraisal Options

Appraisal Options			
Cost saving:	Yes	< Drop Down List	Choose
Carbon Saving:	Yes	< Drop Down List	Choose
Good Indoor Air Quality:	Choose	< Drop Down List	Choose
No-Surface or Interstitial Condensation and Mould:	Yes	< Drop Down List	Choose
Overheating:	No	< Drop Down List	Choose
Health & Wellbeing:	Yes	IF	Auto-filled
Electrical efficieny	No	< Drop Down List	Choose
Client/Designer Aspiration			
Experimental or Innovative	No	< Drop Down List	Choose
Sourcing:	Made in Scotland	< Drop Down List	Choose
Normal or Research Evidence	Research	< Drop Down List	Choose
Scope	Choose one at a time or many together		
Basement:	No	< Drop Down List	Choose
Ground floor:	Yes	< Drop Down List	Choose
External Wall:	Yes	< Drop Down List	Choose
Party Floor:	No	< Drop Down List	Choose
Party Wall:	No	< Drop Down List	Choose
Roof:	Yes	< Drop Down List	Choose
Windows:	Yes	< Drop Down List	Choose
Doors:	Yes	< Drop Down List	Choose
Services:	No	< Drop Down List	Choose
Heating:	No	< Drop Down List	Choose
Ventilation	No	< Drop Down List	Choose
Lighting:	No	< Drop Down List	Choose
Hot water:	No	< Drop Down List	Choose
Electiric vehicle:	No	< Drop Down List	Choose
Risk factors	See below for each element's own risk analysis		

GBC B2 Survey Sheet v 2 Populated Scotland

Context:	Step 1	3
Project Address:	Type or paste text	
* Project Address Country:	Scotland	< Drop Down List
Wind Driven Rain Index:	3 Severe 56.5 to 100	3
Construction: Moisture open or closed:	Open	IF
Construction Era:	Pre 1919	< Drop Down List
Heritage status:	Unprotected Building	< Drop Down List
Risk Status:	Minor Concern	< Drop Down List
* Building Format:	Terraced House	< Drop Down List
Building Type Look Up Code:	Scotland:Pre 1919:Terraced House	CONCATENATE
Building Fabric Condition:	Poor	< Drop Down List
Choose between EnerPHit Retrofit, Conservation Retrofit:	Technical Standards 6.2-6.3 Domestic: Individual Elements Conversion	< Drop Down List
B2 Uvalue Etc column:	DO	VLOOKUP
Standardised dwelling database Assumed Areas or actual:	Actual	< Drop Down List
Outside winter average temperature:	4	Degrees C
Below Ground floor temperature:	4	IF
Lifestyle temperature Choice:	Underwear only	< Drop Down List
Temperature Choice:	25	VLOOKUP
Assumed lifestyle choice for parties beyond party walls/floors	Jumper wearers	< Drop Down List
Parties temperature choice:	17	VLOOKUP

GBC B2 Moisture Risk Factors & Feedback

© STBA 2021 developed by GBC and STBA	B2 Risk fac	ctors											
	Build	Build Abbreviation	Element	Element Abbreviation	Element Format	Element Format	Insulation Position	Building Fabric Moisture Type	Insulation Material Moisture Type	Building Fabric Condition	Wind Driven Rain Index	RISK	Commenta
Concatenate	Traditional/Conventional						IWI CWI EWI	Moisture Open	Moisture Open	Excellent, Good, Fair Poor, V Poor	1234	13	14
CB:CW:EWI:SMC:IMC:F:1	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMC	F	1	Medium	Moisture closed materials over moisture closed structure in a sheltered location but building in poor condition appropriate repairs / enabling works required prior to application
CB:CW:EWI:SMC:IMC:F:2	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMC	F	2	Medium	Moisture closed materials over moisture closed structure in a sheltered location but building in poor condition appropriate repairs / enabling works required prior to application
CB:CW:EWI:SMC:IMC:F:3	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMC	F	3	High	Moisture closed materials over moisture closed structure in an exposed location with the building in poor condition requires appropriate repairs / enabling works required prior to application and a long term maintenance plan
CB:CW:EWI:SMC:IMC:F:4	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMC	F	4	High	Moisture closed materials over moisture closed structure in an exposed location with the building in poor condition requires appropriate repairs / enabling works required prior to application and a long term maintenance plan
CB:CW:EWI:SMC:IMC:G:1	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMC	G	1	Low	Moisture closed materials over moisture closed structure in a good condition and low exposure site are appropriate.
CB:CW:EWI:SMC:IMC:G:2	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMC	G	2	Low	Moisture closed materials over moisture closed structure in a good condition and low exposure site are appropriate.
CB:CW:EWI:SMC:IMC:G:3	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMC	G	3	Medium	Moisture closed materials over moisture closed structure in a good condition but the high exposure site requires that special care is taken to ensure detailing is correct to stop rain penetration.
CB:CW:EWI:SMC:IMC:G:4	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMC	G	4	Medium	Moisture closed materials over moisture closed structure in a good condition but the high exposure site requires that special care is taken to ensure detailing is correct to stop rain penetration.
CB:CW:EWI:SMC:IMC:P:1	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMC	Р	1	Medium	Moisture closed materials over moisture closed structure in a sheltered location but building in poor condition appropriate repairs / enabling works required prior to application
CB:CW:EWI:SMC:IMC:P:2	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMC	P	2	Medium	Moisture closed materials over moisture closed structure in a sheltered location but building in poor condition appropriate repairs / enabling works required prior to application
CB:CW:EWI:SMC:IMC:P:3	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMC	Р	3	High	Moisture closed materials over moisture closed structure in an exposed location with the building in poor condition requires appropriate repairs / enabling works required prior to application and a long term maintenance plan
CB:CW:EWI:SMC:IMC:P:4	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMC	Р	4	High	Moisture closed materials over moisture closed structure in an exposed location with the building in poor condition requires appropriate repairs / enabling works required prior to application and a long term maintenance plan
CB:CW:EWI:SMC:IMC:V:1	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMC	v	1	Medium	Moisture closed materials over moisture closed structure in a sheltered location but building in poor condition appropriate repairs / enabling works required prior to application
CB:CW:EWI:SMC:IMC:V:2	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMC	v	2	Medium	Moisture closed materials over moisture closed structure in a sheltered location but building in poor condition appropriate repairs / enabling works required prior to application
CB:CW:EWI:SMC:IMC:V:3	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMC	V	3	High	Moisture closed materials over moisture closed structure in an exposed location with the building in poor condition requires appropriate repairs / enabling works required prior to application and a long term maintenance plan
CB:CW:EWI:SMC:IMC:V:4	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMC	v	4	High	Moisture closed materials over moisture closed structure in an exposed location with the building in poor condition requires appropriate repairs / enabling works required prior to application and a long term maintenance plan
CB:CW:EWI:SMC:IMO:F:1	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMO	F	1	Medium	Moisture open materials can be used as a sheltered location, however appropriate repairs and enabling works are required prior to application.
CB:CW:EWI:SMC:IMO:F:2	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMO	F	2	Medium	Moisture open materials can be used as a sheltered location, however appropriate repairs and enabling works are required prior to application.
CB:CW:EWI:SMC:IMO:F:3	Conventional builds	СВ	External Wall	EW	Cavity Wall	cw	EWI	SMC	IMO	F	3	High	Moisture open materials are higher risk due to exposed location and the condition of the structure. Care is required to ensure appropriate repairs and enabling works are undertaken prior to application. A long term maintenance pairs required as the sha has high exposure.
CB:CW:EWI:SMC:IMO:F:4	Conventional builds	СВ	External Wall	EW	Cavity Wall	cw	EWI	SMC	IMO	F	4	High	Moisture open materials are higher risk due to exposed location and the condition of the structure. Care is required to ensure appropriate repairs and enabling works are undertaken prior to application. A long term maintennos plan is required as the set has high exposure.
CB:CW:EWI:SMC:IMO:G:1	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMO	G	1	Low	Moisture open materials can be used safely as condition is good and sheltered location
CB:CW:EWI:SMC:IMO:G:2	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMO	G	2	Low	Moisture open materials can be used safely as condition is good and sheltered location
CB:CW:EWI:SMC:IMO:G:3	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMO	G	3	Medium	Moisture open materials can be used as condition is good and cavity nature of wall will remove moisture risk for internal environment however a long term maintenance plan is required as the site has high exposure.
CB:CW:EWI:SMC:IMO:G:4	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMO	G	4	Medium	Moisture open materials can be used as condition is good and cavity nature of wall will remove moisture risk for internal environment however a long term maintenance plan is required as the site has high exposure.
CB:CW:EWI:SMC:IMO:P:1	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMO	Р	1	Medium	Moisture open materials can be used as a sheltered location, however appropriate repairs and enabling works are required prior to application.
CB:CW:EWI:SMC:IMO:P:2	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMO	P	2	Medium	Moisture open materials can be used as a sheltered location, however appropriate repairs and enabling works are required prior to application.
CB:CW:EWI:SMC:IMO:P:3	Conventional builds	СВ	External Wall	EW	Cavity Wall	cw	EWI	SMC	IMO	Р	3	High	Notature open materials are higher risk due to especial coation and the condition of the structure. Care is required to ensure appropriate repairs and enabling works are undertaken prior to application. A long term materies plan is required as the site has high exposure.
CB:CW:EWI:SMC:IMO:P:4	Conventional builds	СВ	External Wall	EW	Cavity Wall	cw	EWI	SMC	IMO	Р	4	High	Noisture open materials are higher risk due to exposed location and the condition of the structure. Care is required to ensure appropriate repairs and enabling works are undertaken prior to application. A long term materiance gain is required at the side has high exposure.
CB:CW:EWI:SMC:IMO:V:1	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMO	v	1	Medium	Moisture open materials can be used as a sheltered location, however appropriate repairs and enabling works are required prior to application.
CB:CW:EWI:SMC:IMO:V:2	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	EWI	SMC	IMO	v	2	Medium	Moisture open materials can be used as a sheltered location, however appropriate repairs and enabling works are required prior to application.
CB:CW:EWI:SMC:IMO:V:3	Conventional builds	СВ	External Wall	EW	Cavity Wall	cw	EWI	SMC	IMO	v	3	High	Moisture open materials are higher risk due to exposed location and the condition of the structure. Care is required to ensure appropriate reparts and enabling works are undertaken prior to application. A long term materialismance plan is required as the side has high exposure.
CB:CW:EWI:SMC:IMO:V:4	Conventional builds	СВ	External Wall	EW	Cavity Wall	cw	EWI	SMC	IMO	v	4	High	Moisture open materials are higher risk due to exposed location and the condition of the structure. Care is required to ensure appropriate repairs and enabling works are undertaken prior to application. A long term materialismance plan is required as the site has high exposure.
CB:CW:IWI:SMC:IMC:E:1	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	IWI	SMC	IMC	E	1	Low	Moisture closed materials inside moisture closed structure in a good condition and low exposure site are appropriate.
CB:CW:IWI:SMC:IMC:E:2	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	IWI	SMC	IMC	E	2	Low	Moisture closed materials inside moisture closed structure in a good condition and low exposure site are appropriate.
CB:CW:IWI:SMC:IMC:E:3	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	IWI	SMC	IMC	E	3	Medium	Moisture closed materials inside moisture closed structure in a good condition but the high exposure site requires that special care is taken to ensure detailing is correct to stop rain penetration.
CB:CW:IWI:SMC:IMC:E:4	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	IWI	SMC	IMC	E	4	Medium	Moisture closed materials inside moisture closed structure in a good condition but the high exposure site requires that special care is taken to ensure detailing is correct to stop rain penetration.
CB:CW:IWI:SMC:IMC:F:1	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	IWI	SMC	IMC	F	1	Low	Moisture closed materials inside moisture closed structure in a good condition and low exposure site are appropriate.
CB:CW:IWI:SMC:IMC:F:2	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	IWI	SMC	IMC	F	2	Low	Moisture closed materials inside moisture closed structure in a good condition and low exposure site are appropriate.
CB:CW:IWI:SMC:IMC:F:3	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	IWI	SMC	IMC	F	3	Medium	Moisture closed materials inside moisture closed structure in a good condition but the high exposure site requires that special care is taken to ensure detailing is correct to stop rain penetration.
CB:CW:IWI:SMC:IMC:F:4	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	IWI	SMC	IMC	F	4	Medium	Moisture closed materials inside moisture closed structure in a good condition but the high exposure site requires that special care is taken to ensure detailing is correct to stop rain penetration.
CB:CW:IWI:SMC:IMC:G:1	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	IWI	SMC	IMC	G	1	Low	Moisture open materials can be used safely as condition is good and sheltered location
CB:CW:IWI:SMC:IMC:G:2	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	IWI	SMC	IMC	G	2	Low	Moisture open materials can be used safely as condition is good and sheltered location
CB:CW:IWI:SMC:IMC:G:3	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	IWI	SMC	IMC	G	3	Medium	Moisture open materials can be used as condition is good however a long term maintenance plan for external condition is recommended as the site has high exposure.
CB:CW:IWI:SMC:IMC:G:4	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	IWI	SMC	IMC	G	4	Medium	Moisture open materials can be used as condition is good however a long term maintenance plan for external condition is recommended as the site has high exposure.
CB:CW:IWI:SMC:IMC:P:1	Conventional builds	CB	External Wall	EW	Cavity Wall	CW	IWI	SMC	IMC	P	1	Medium	Moisture closed materials inside moisture closed structure in a sheltered location but building in poor condition appropriate external repairs required prior to application

GBC B2 Elemental Assembly > 1 v GF Existing & Previous Interventions

Yes,No	New Build or Refurbishment Actions	Component Function	Component Material	Density	Thermal Conductivity	Thickness	Thickness	Thermal Resistance	size: width or thickness (solid)	Spacing or cavity (vold)	Fraction of area or section	Thermal Resistances	Calculated Total U value	Target Elemental U value	Difference	Pass, PassU or Fail
Yes		Suspended Ground Floor (SGF) Existing with previous intervention	Choose from Drop Down List	kg/m3	W/m.K	mm	m	m2.K/W	mm	mm	%	m2.K/W	W/m2.K	W/m2.K	W/m2.K	Auto
Yes		Resistance of Inside Surface (Rsi)						0.17				0.170				
No	Proposed	Internal decoration	Lacquer	1000	1	0.25	0.00025	0.000	1	1	100%	0.000				
No	Proposed	Internal finish	Hardwood flooring	700	0.180	25	0.025	0.139	1	1	100%	0.000				
No	Proposed	Internal lining/levelling	Gypsum fibreboard	1000	0.360	48	0.048	0.133	1	1	100%	0.000				
No	Proposed	Thermal Insulation	Mineral Wool, rock	24	0.038	100	0.1	2.632	1	1	100%	0.000				
Yes	Previous	Structure zone Thermal insulation	Mineral wool, rock	24	0.038	100	0.1	2.632	550	600	92%	2.412				
Yes	Existing	Floor boarding	Softwood	500	1	25	0.025	0.025	1	1	100%	0.025				
Yes	Existing	Structure Floor joists	Softwood	500	1	100	0.1	0.100	50	600	8%	0.008				
Yes	Existing	Resistance of Outside Surface (Rso)	Surface Resistivity					0.170	1	1	100%	0.170				
Yes	Existing	Ventilated air space	Air					0.230	1	1	100%	0.230				
Yes	Existing	Resistance of Outside Surface (Rso)	Surface Resistivity					0.170	1	1	100%	0.170				
Yes	Existing	Oversite	sand		2.000	50	0.05	0.025	1	1	100%	0.025				
Yes	Existing	Undisturbed sub soil	Clay		1.500	1000	1	0.667	1	1	100%	0.667				
Yes		Resistance of Outside Surface (Rso)			Proposed	1448.25		0.17				0.170				
					Previous	1448.25	1.45					4.047	0.247	0.25	-0.003	Pass
						Overall thickness mm	Overall thickness m					Total elemental R value	Total elemental U value	Target elemental U value	Difference	Pass, PassU or Fail

GBC B2 Energy > Fuel Choice > In Use CO2 > In Use £ & By Element And Retrofit Scenarios

Completed by GBC	Yes	Yes	Yes	Yes	No Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
To be completed by GBC user		Auto-filled	Choose		Auto-filled	Auto-filled	Auto-filled	Auto-filled	Auto-filled	Auto-filled	Review	Auto-filled	Auto-filled	Auto-filled	Review	Auto-filled	Interact	Interact	Review	Interact	Review
		U Va	alues To	Watts To CO ₂	DP Check													S	cenarios	5	
1		L	Previous	© STBA 2021 developed by GBC and STBA	Assumed							_					Previous	Proposed 1	Improvement	Proposed 2	Improvement
	-						Te	mperature		Hea	t loss						Pasted values	0.1.1.0.1.1			
					Assumed		Та	mperature		Hog	t loss						Set cell D4 to	Set cell D4 to 'Proposed 1'	in two	Set cell D4 to 'Proposed 2'	in two
No	Floor	Applicable	Scenarios	Elements	Calculated U value Areas	External	10	Internal	Difference	Individual	Total	Area	Total Areas	Areas	Heat loss	Ratio:	'Previous' then	then review cells	columns to	then review	columns to
					W/m2.K m2	degree C		degree C	degree C	W	W	m2	m2	%	%	1 in x	copy cells T26	V26 to V98 in	left, review	cells V26 to V98	left, review
1		No	Previous	Ground Bearing Solid Floor (GBSF)	5.882 0	0		17	17	0	1	0					to T98, paste >	next column to	differences	in next column	differences
		No	Previous	Suspended Ground Floor (SGF)	0.711 0	0	-	17	17	0		0					values	right	below	to right	below
					0						0	Floor	0	0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00
		-					Te	mperature			t loss										
	Compartmentation	Applicable	Scenarios	Elements	Calculated U value Areas	Party		Internal	Difference	Individual	Total	Area	Total Areas	Areas	Heat loss	Ratio:					
					W/m2.K m2	degree C		degree C	degree C	W	W	m2	m2	%	%	1 in x					
Yes	Compartment Floor	Yes	Previous	Party Floor (PF)	Assumed 0.158 72.13	17		17	0	0	0	72.13	- -	24%	0%	0.00	0.00	0.00	0.00	0.00	0.00
No	Compartment Vall	168	Previous	Party Wall (PF):	0.136 72.13 Assumed	- "		17		0	U	12.13	J (24 70	076	0.00	0.00	0.00	0.00	0.00	0.00
NO	Compartment wall	No	Previous	Solid Masonry Party Wall (SMPW)	0.000 0.00	17		17	0	0	1	0	- -	0%	1						
		No	Previous	Cavity Masonry Party Wall (CMPW)	4.167 0.00	17		17	0	0	0	ő		0%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00
		Yes	Previous	Timber Frame Party Wall (TFPW)	0.086 0.00	17		17	0	0	0	0		0%							
1					72.13						0	Compartmentation	72.13	24%	0.0%	0.00	0.00	0.00	0.00	0.00	0.00
		_			Assumed		Te	mperature		Hea	t loss										
Yes	Wall	Applicable	Scenarios	Elements	Calculated U value Areas	External		Internal	Difference	Individual	Total	Area	Total Areas	Areas	Heat loss	Ratio:					
				External Walls:	W/m2.K m2	degree C		degree C	degree C	w	w	m2	m2	%	%	1 in x					
		Yes	Previous	Solid Masonry External Walls (SMEW)	0.247 98.09	0	-	17	17	412		98.09									
		No	Previous	Cavity Masonry External Walls (CMEW)	0.309 0.00 98.09	0		17	17	0	412	0 Wall	00.00	001/	00.5%	1.01	440.07	440.07	0.00	412.37	0.00
					Assumed		Τ.	mperature		Use	412 t loss	vvaii	98.09	32%	32.5%	1.01	412.37	412.37	0.00	412.37	0.00
Yes	Roof	Applicable	Scenarios	Elements	Calculated U value Areas	External	Ie	Internal	Difference	Individual	Total	Area	Total Areas	Areas	Heat loss	Ratio:					
105	Root	Applicable	Openanos	Liements	W/m2.K m2	degree C		degree C	degree C	W	W	m2	m2	%	%	1 in x					
		No	Previous	Flat Roof (FR)	2.045 0	Oegree C		17	17		1	0	1112	70	78						
		Yes	Previous	Pitched Roof (PR)	0.113 128	0		17	17	247	1	128	-								
1					128						247	Roof	128	42%	19.4%	0.46	246.58	246.58	0.00	246.58	0.00
							Te	mperature		Hea	t loss										
1	Window/Door/Rooflight	Applicable	Scenarios	Elements	Calculated U value Areas	External		Internal	Difference	Individual	Total	Area	Total Areas	Areas	Heat loss	Ratio:					
]					W/m2.K m2	degree C		degree C	degree C	w	w	m2	m2	%	%	1 in x					
					Assumed			1													
Yes	Windows	Yes	Previous	Windows (W)	5.500 5.04	0	-	17	17	471	471	5.04	Window	1.7%	37.2%	22.50	471.24	471.24	0.00	471.24	0.00
Yes	Doors	Yes	Previous	Glazed Pedestrian Doors (GPD)	4.500 1.80	-		17	17	138	138	1.8	Door	0.6%	10.9%	18.41	137.70	137.70	0.00	137.70	0.00
Tes	Doors	Tes	Previous	Giazed Pedestrian Doors (GPD)	4.300 1.80	0		17	17	130	609	Combined	6.8	2.2%	48.0%	21.42	608.94	608.94			
					0.04						308	- Combined		2.270	40.076	21.42	000.34	000.34	0.00	000.34	0.00
											1.268	Total Envelop	305.1	100%	100.0%	1.00	1267.89	1267.89	0.00	1267.89	0.00
																			5.00	1207.00	5.00
											659	Opaque Envelop	298	98%	52.0%	0.53	658.95	658.95	0.00	658.95	0.00
																	Pasted values	Normal			

GBC B2 In Use Energy > CO2 > £ EE EC SC and Retrofit Scenarios

										Scenarios
	Build C	octo	N Y		No	A.				tipus F pose Improvem d 2 Improvem
										convert D4 m h h h h h h h h h h h h h h h h h h
										ther view columns
		Aveas		1 1						to T141, paste U102 to U141 in left, review cells W102 to left, review
	Total Conduction Heat Loss		Basement Party floor	Party wall	Floor Wall	Roof	Ceiling	Windows Doors	Insulation	> values right below column to right below
Tota		305.1 m2	0 72	Party war	Pibor Wall	128	Celling	Windows Doors	298 298	305.1 305.1 0.0 305.1 0.0
	ant Total Transparent Area of Conducted Heat Loss (TTACHL)	6.8 m2						5.04 1.8	6.84	6.8 6.8 0.0 6.8 0.0
Walls Roof Floo	for Total Opaque Area of Conducted Heat Loss (TOACHL)	298.2 m2	0% 24%	0%	0% 32%	42%	0%	1.7% 0.6%	100%	298.2 298.2 0.0 298.2 0.0 2.29% 2.29% 0% 2.29% 0.0
Walls Roof Flo	or Transparent area as % of whole	2.29% % 48.03% %	0% 24%	0%	0% 32%	4276	0%	37.2% 10.9%	100%	2.29% 2.29% 0% 2.29% 0.0 48.03% 48.03% 0% 48.03% 0.0
	In-Use Energy	94	0.0% 0.0%	0.0%	0.0% 32.5%	19.4%	0.0%	37.2% 10.9%	0	Previous Proposed 1 Improvement Proposed 2 Improvem
	Floor area	305 m2			Floor Wall	Roof	Ceiling	Windows Doors	Insulation	305.1 305.1 0.0 305.1 0.0
	Watts	1,268 W	0.00 0.00	0.00	0.00 412.37	246.58	0.00	471.24 137.70	0.00	1,267.9 1,267.9 0.0 1,267.9 0.0
	KiloWatts kiloWattHours/day	1.268 kW 20 kWh	0.00 0.00	0.00	0.00 0.41 0.00 6.60	0.25	0.00	0.47 0.14 7.54 2.20	0.00	1.3 1.3 0.0 1.3 0.0 20.3 20.3 0.0 20.3 0.0
	KiloWatts/floor area	0.004 kW/m2	0.00 0.00	0.00	0.00 0.00	0.00	0.00	0.00 0.00	0.00	0.0 0.0 0.0 0.0
	KiloWattHours/floor area KiloWattHours/Floor area/year	0.0665 kWh/m2 161 kWh/m2/Year	0.00 0.00	0.00	0.00 0.02 0.00 52.48	0.01 31.38	0.00	0.02 0.01 59.98 17.53	0.00	0.1 0.1 0.0 0.1 0.0 161.4 161.4 0.0 161.4 0.0
	KiloWattHours/Floor area/60 years	9,682 kWh/m2/Life	0.00 0.00	0.00	0.00 3,149.0	51,56	0.00	3,598.64 1,051.55	0.00	9,682.3 9,682.3 0.0 9,682.3 0.0
			_							
	In-Use Carbon Dioxide	CO ₂ CarbonDicxide								Proposed 1 Proposed 1 Improvement Proposed 2 Improver
	Fuel Choice	Mains Electricity Drop Down List	Basement Party floor	Party wall	Floor Wall	Roof	Ceiling	Windows Doors	Insulation	Mains Electricity Mains Electricity Mains Electricity
	CO2	0.186 kg CO ₃ /kWh 3.773 kg CO ₃	0.00 0.00	0.00	0.00 0.06	0.04	0.00	0.07 0.02	0.00	0.186 0.186 0.0 0.186 0.0 3773 0.0
	kg CO2 kg CO2/year	451.360 kg CO ₂	0.00 0.00	0.00	0.00 1.23	87.78	0.00	167.76 49.02	0.00	451.360 451.360 0.0 451.360 0.0
	kg CO2/whole life	27,081.60 kg CO ₂	0.00 0.00	0.00	0.00 8,807.9	9 5,266.91	0.00	10,065.48 2,941.21	0.00	27,081.6 27,081.6 0.0 27,081.6 0.0
	kg CO2/m2	1,151 kg CO ₂ /m ²	0.00 0.00	0.00	0.00 374.37	223.86	0.00	427.82 125.01	0.00	1,151.1 1,151.1 0.0 1,151.1 0.0
	In-Use Hours to Whole Life	1								
		h/d h/d 16 h/d	up to max 24	% h/y 66.67%						Proposed 1 Proposed 1 Improvement Proposed 2 Improvem 16 16 16
	Hours of operation per day (Spaces heated) Days Per week (Spaces heated)	16 h/d 7 d/wk	up to max 24 up to max 7	66.67%						16 16 16 7 7 7 7
	Weeks per month (Spaces heated)	4.33 w/m	up to max 4.33	100.00%						4.33 4.33 0.00 4.33 4.33
	Months per year (Spaces heated)	5 m/y	up to max 12	41.67%						5 5 5
	Weeks per year (Spaces heated) Days per year	21.67 w/y 151.67 d/y	up to max 52 up to max 365	41.67% 41.55%						21.67 21.67 0.0 21.67 -21.7 151.67 151.67 0.0 151.67 -151.7
	Hours per year (Spaces heated)	2,427 h/y	up to max 8,760	27.70%						2,426,67 2,426,67 0,00 2,426,67 -2,426,67
	Number of years design life expectancy	60 yr1								60 60 0.0 60 -60.0
	Hours per life	145,600 hl	up to max 525,600	27.70%						145,600.00 145,600.00 0.00 145,600.00 -145,600
	In Line Cente	1								
	In-Use Costs		%%%	%%%	%%% %%%	%%%	%%%	%%% %%%	%%%	
	Fuel Choice £ in-use costs/unit of fuel/hour	Mains Electricity £0.16 £/kWh	Easement Party floor £0.00 £0.00	Party wall £0.00	Floor Wall £0.00 £0.05	Roof £0.03	Ceiling £0.00	Windows Doors £0.06 £0.02	Insulation £0.00	Proposed 1 Proposed 1 Improvement Proposed 2 Improver £0.16 £0.16 £0.00 £0.16 £0.00
£ in-use costs/da	ay £ Unit cost of fuel x building consumption x hours/day	£3.27 £/d	£0.00 £0.00	£0.00	£0.00 £1.06	£0.64	£0.00	£1.21 £0.35	£0.00	£3.27 £3.27 £0.00 £3.27 £0.00
	£ in-use costs/year £ in-use costs/whole life	£495.36 £/y £29,721.39 £/	£0.00 £0.00 £0.00 £0.00		£0.00 £161.1 £0.00 £9.666.5	£96.34 6 £5,780.31	£0.00 £0.00	£184.11 £53.80 £11,046.62 £3,227.91	£0.00 £0.00	£495.36 £495.36 £0.00 £495.36 £0.00 £29,721.39 £29,721.39 £0.00 £29,721.39 £0.00
		220,721,000 2.0	%%%	%%%	%%% %%%		%%%	%%% %%%	%%%	20.00 20.00 20.00 20.00 20.00 20.00
	Embodied Energy to Sequest	tered Carbon	Basement Party floor	Party wall	Floor Wall	Roof	Ceiling	Windows Doors	Insulation	Proposed 1 Proposed 1 Improvement Proposed 2 Improver
	Embodied Energy	1035.76 MJ	0.00 0.00	0.00	0.00 336.87		0.00	384.96 112.49	0.00	1035.76 1035.76 0.00 1035.76 0.00
	Embodied Carbon	19663.56 kg CO2	0.00 0.00	0.00	0.00 6395.36	3824.23	0.00	7308.40 2135.57	0.00	19663.56 19663.56 0.00 19663.56 0.00
	Sequestered Carbon Total Carbon	50340.20 kg CO2 -30676.64 kg CO2	0.00 0.00	0.00	0.00 16372.6	0 9790.32 4 -5966.09	0.00	18710.06 5467.23 -11401.66 -3331.65	0.00	50,340.20 50,340.20 0.00 50,340.20 0.00 -30,676.64 -30,676.64 0.00 -30,676.64 0.00
		-30070.04 Ng 002	0.00	0.00		-0000.00	0.00		0.00	
	Building Costs		Basement Party floor	Party wall	Floor Wall	Roof	Ceiling	Windows Doors	Insulation	Previous Proposed 1 Improvement Proposed 2 Improver
	£ costs of Building and elements	£16.00 £	E0.00 E0.00	£0.00	E0.00 E5.20	E3.11	£0.00	£5.95 £1.74	E0.00 %%	Previous Proposed 1 Improvement Proposed 2 Improvement % £24.00 £24.00 £0.00 £16.00 £8.00
	£ costs of building/m2	£0.05 £/m2	£0.00 £0.00		£0.00 £0.02	£0.01	£0.00	£0.02 £0.01	£0.00 %%	% £0.09 £0.09 £0.00 £0.05 £0.04
	£ costs of Building/year of life	£0.27 £/y	£0.00 £0.00	£0.00	£0.00 £0.09	£0.05	£0.00	£0.10 £0.03	£0.00 %%	% £0.40 £0.40 £0.00 £0.27 £0.11
	2 costs of building your of the									
		Secondary-element V								
	Pay-back periods	Components								
	Pay-back periods	Components Components	_					Windows		
	Pay-back periods Windows Cost of Windows	Components Components £0.00 £/y	7					£0.00 £0.00	%% %%	% £8.00 £25.68 -17.7 £0.00 8.0
	Pay-back periods Windows Cost of Windows Cost pay-back period Energy pay-back period	Components E0.00 Ey 0.00 Years #VALUEI Years						£0.00 £0.00 #VALUE!	96.96 96.96	% £8.00 £25.68 -17.7 £0.00 8.0 % £0.00 £1.12 -1.1 £0.00 0.0 % £0.00 #VALUE! #VALUE! #VALUE! #VALU
	Pay-back periods Windows Cost of Windows Cost pay-back period Energy pay-back period Carbon pay-back period	Components Components E0.00 E/y 0.00 Years		Determine	flee	Bert	0-8	E0.00 E0.00 #VALUE!	%% %%	% £8.00 £25.68 -17.7 £0.00 8.0 % £0.00 £1.12 -1.1 £0.00 0.0 % £0.00 #VALUE! #VALUE! #VALUE! #VALU
	Pay-back periods Windows Cost of Windows Cost of Windows Cost pay-back period Energy pay-back period Garbon pay-back period Thermal Insulation	Components E0.00 E/y 0.00 Years #VALUEI Years #VALUEI Years	Basement Party floor £0.00 £0.00	Party wall	Floor Wall 60.00 £0.00	Roof £0.00	Ceiling £0.00	£0.00 £0.00 #VALUE!	%% %%	% £5.00 £25.68 -17.7 É0.00 8.0 % £5.00 £1.42 -1.1 50.00 60. % £5.00 #VALUE! #VALUE! #VALUE! #VALUE! #VALUE! % £0.00 #VALUE! #VALUE! #VALUE! #VALUE! #VALUE!
	Pay-back periods Windows Cost of Windows Cost of Windows Cost pay-back period Energy pay-back period Garbon pay-back period Thermal Insulation Cost of Thermal Insulation Cost of Thermal Insulation Cost of Thermal Insulation Cost pay-back period	Components Components 0.000 Ey WALUEI Vears #VALUEI Vears £0.00 Ey 0.00 Vears	£0.00 £0.00 £0.00 £0.00	£0.00 £0.00	£0.00 £0.00 £0.00 £0.00	£0.00	£0.00 £0.00	€0.00 €0.00 #VALUE! #VALUE! Windows Doors €0.00 €0.00 €0.00 €0.00	%% %% Insulation £0.00 %% £0.00 %%	% £5.00 £25.68 -17.7 £0.00 8.0 % £5.00 £1.12 -1.1 £0.00 6.0 % £5.00 £1.12 -1.1 £0.00 6.0 % £5.00 #VALUE! #VALUE! #VALUE! #VALUE! #VALUE! % £0.00 #VALUE! #VALUE! #VALUE! #VALUE! #VALUE! % £0.00 £0.00 0.0 0.0 \$0.00 0.0
	Pay-back periods Windows Cost of Thermal Insulation Cost of Thermal Insulation Cost of Thermal Insulation Cost of Device Nack period Energy pay-back period Energy cay-back period	Components 60.00 Ly 0.00 Years #VALUE! Years #VALUE! Years 60.00 Ly 0.00 Years #VALUE! Years	£0.00 £0.00 £0.00 £0.00 #VALUE! #VALUE!	£0.00 £0.00 #VALUE! #	£0.00 £0.00 £0.00 £0.00 #VALUE! #VALUE	£0.00 £0.00	£0.00 £0.00 #VALUE!	£0.00 £0.00 #VALUE! Windows Doors £0.00 £0.00 £0.00 £0.00 #VALUE!	%% %% E0.00 #VALUE! %%	% E8.00 £25.68 -17.7 É0.00 8.0
	Pay-back periods Windows Cost of Windows Cost of Windows Cost pay-back period Energy pay-back period Carbon pay-back period Thermal Insulation Cost of Thermal Insulation Cost of Thermal Insulation Cost of Thermal Insulation Cost pay-back period Energy pay-back period Carbon pay-back period	Components Components 0.000 Ey WALUEI Vears #VALUEI Vears £0.00 Ey 0.00 Vears	£0.00 £0.00 £0.00 £0.00 #VALUE! #VALUE! #VALUE! #VALUE!	£0.00 £0.00 #VALUE! # #VALUE! #	E0.00 E0.00 E0.00 E0.00 #VALUE! #VALUE #VALUE! #VALUE	£0.00 £0.00	£0.00 £0.00 #VALUE! #VALUE!	£0.00 £0.00 ¥VALUE! ¥VALUE! ¥VALUE! ¥VALUE! £0.00 £0.00 £0.00 £0.00 ¥VALUE! ¥VALUE! ¥VALUE! ¥VALUE!	\$ \$ 50.00 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	% E8.00 £25.68 -17.7 É0.00 8.0
	Pay-back periods Windows Cost of Windows Cost of Windows Cost pay-back period Energy pay-back period Carbon pay-back period Thermal Insulation Cost of Building Cost of Building Cost of Building	Components Components 0.00 Years #VALUET Years #VALUET Years 0.00 E/y 0.00 E/y 0.00 Years #VALUET Years #VALUET Years E16.00 E/y	£0.00 £0.00 £0.00 £0.00 £0.00 £0.00 #VALUE! #VALUE! #VALUE! #VALUE! #VALUE! Basement Party floor £0.00 £0.00	£0.00 £0.00 #VALUE! # #VALUE! # Party wall £0.00	E0.00 E0.00 E0.00 E0.00 #VALUE! #VALUE #VALUE! #VALUE Floor Wall E0.00 E5.20	E0.00 E0.00 ! #VALUE! ! #VALUE! Roof E3.11	£0.00 £0.00 #VALUE! #VALUE! Ceiing £0.00	£0.00 £0.00 #VALUE! Windows Doors £0.00 £0.00 £0.00 £0.00 £0.00 £0.00 #VALUE! Windows Doors £5.56 £1.74	%% %% 1nsulation £0.00 %% #VALUE1 %% #VALUE1 %% Insulation £0.00 %%	% £8.00 £25.68 -17.7 £0.00 8.0 \$\$ £0.00 £1.12 -1.1 £0.00 0.0 8.0 \$\$ £0.00 £1.12 -1.1 £0.00 0.0 8.0 \$\$ £0.00 £1.12 -1.1 £0.00 0.0 8.0 \$\$ £0.00 #VALUE! #VALUE! #VALUE! #VALUE! #VALUE! \$\$ £0.00 £0.43 -0.4 £0.00 0.0 \$\$ \$\$ £0.00 £0.43 -0.4 £0.00 \$\$ \$\$ \$\$ £0.00 #VALUE! #VALUE! #VALUE! #VALUE! #VALU \$\$ £0.00 #VALUE! #VALUE! #VALUE! \$\$ \$\$ \$\$ £0.00 #VALUE! #VALUE! #VALUE! \$\$ \$\$ \$\$ £0.00 #VALUE! #VALUE! \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$
	Pay-back periods Windows Cost of Thermal Insulation Cost of Therm	Components E0:00 Ly 0:00 Years #VALUE! Years #VALUE! Years E0:00 Ly 0:00 Years #VALUE! Years #VALUE! Years	£0.00 £0.00 £0.00 £0.00 ¥VALUE! #VALUE! #VALUE! Basement Party floor	£0.00 £0.00 #VALUE! : #VALUE! : Party wall £0.00 £0.00	£0.00 £0.00 £0.00 £0.00 ¥VALUE! #VALUE! ¥VALUE! #VALUE! Floor Wall	£0.00 £0.00 #VALUE! !! #VALUE! Roof	£0.00 £0.00 #VALUE! #VALUE! Ceiling	£0.00 £0.00 ¥VALUE! #VALUE! Windows Doors £0.00 £0.00 £0.00 #VALUE! #VALUE! #VALUE! #VALUE! #VALUE! #VALUE!	% % %% Insulation £0.00 % % £0.00 % % #VALUE! % % #VALUE! % % Insulation	% E 8.00 £ 25.68 -17.7 É 0.00 8.0 % E 0.00 £ 1.12 -1.1 E 0.00 8.0 % E 0.00 £ 1.12 -1.1 E 0.00 8.0 % E 0.00 £ 1.12 -1.1 E 0.00 0.0 8.0 % E 0.00 # VALUE! # VALUE! # VALUE! # VALUE! # VALUE! % E 0.00 # 0.00 0.0 E 0.00 0.0 8.0 0.0 5.0 % E 0.00 # 0.01 # 0.01 # 0.01 # 0.01 # 0.01 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 5.0 0.0 <td< td=""></td<>

| Completed | Yes | Yes | Yes | Yes | No Yes

 | Yes | Yes | Yes | Yes
 | Yes | Yes | Yes | Yes | Yes
 | Yes | Vez | Yes | Yes
 | Yes | Yes | Yes | Complete
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completed
 | Completed |
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 | Rein | Auto-filed | Irlana | Irlana
 | Renter | Irlana | Reele | by GBC
user
 | by GBC |
| | U Values | To Watt | s To CO2 | Elements |

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| _ L | | Scenario: | Proposed 2 | © STEA 2021 developed by GBC and STEA | DR Check
Actual

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 | | Senarios: | | Proposed 1
 | Improvement | Proposed 2 | Improvement | Auto-filled
 | Yes
Yes |
| ſ | | | | - | Actual

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impenature |
 | Heat | _ | | |
 | | _ | Pasted values
Set cell D4 to | Set cell D4 to
'Proposed 1'
 | Having set D4
in two | Set cell D4 to
'Proposed 2' | Having set D4
in two | Choose
 | Yes |
| Yes | Floor | Applicable | Scenarios | Elements | Calculated U value Areas
Wim2.K m2

 | External
degree C | | internal
degree C | Difference
degree C
 | Individual
W | Total W | Area
m2 | Total Areas
m2 | Areas
%
 | Heat loss % | Nabo:
1 in x | "Previous" then
copy cells T26 | then review cells
V26 to V99 in
 | columns to
left, review | then review
cells V26 to V95 | columns to
left, review | Interact
 | Yes |
| | | No
Yes | Proposed 2
Proposed 2 | Ground Bearing Solid Floor (GBSF)
Suspended Ground Floor (SGF) | 0.461 0 0.223 40 40

 | 0 | - | 17 | 17
 | 0 | 14.9 | 0
40
Floor | | 36%
 | 21.04 | | to T99, paste >
values | next column to
right
 | differences
below | in next column
to right | differences
below | Auto-filled
Auto-filled
 | Yes
Yes |
| | Compartmentation | Applicable | Scenarios | Elementa | Calculated U value Areas

 | Party | Ter | impenature
Infernal | Difference
 | Heat | Total | | Total Areas |
 | Heat loss | Ratio: | 131.00 | 131.05
 | 0.0. | 131.00 | 0.00 | POLICIAN
 | |
| | | | | | Wim2.K m2
Assumed

 | degree C | | degree C | degree C
 | w | Total
W | Area
m2 | m2 |
 | % | 1 in x | |
 | | | | Check
 | Yes |
| No
Yes | Compariment Floor
Compariment Wall | No | Proposed 2
Proposed 2 | Party Floor (PF)
Party Wall (PF):
Solid Masonry Party Wall (SMPW) | 0.244 0
Assumed
0.000 0.00

 | 17 | | 17 | 0
 | 0 | | 0 | _ | 0%
 | 0% | 0.00 | 0.00 | 0.00
 | 0.00 | 0.00 | 0.00 | Auto-filled
Check
Auto-filled
 | Yes
Yes |
| 1 | | No
Yes | Proposed 2
Proposed 2 | Cavity Masonry Party Wall (CMPW)
Timber Frame Party Wall (TFPW) | 5.882 0.00
0.075 15.79

 | 17 | | 17 | 0
 | 0 | 0 | 0 15.79 | | 0%
 | 0.0% | 0.00 | 0.00 | 0.00
 | 0.00 | 0.00 | 0.00 | Auto-filled
Auto-filled
 | Yes
Yes |
| Yes | Wall | Applicable | Scenarios | Elementa | 15.79
Actual
Calculated U value Areas

 | External | Ter | internature | Differences
 | Heat | 0
Ioss
Total | | 15.79
Total Areas |
 | 0.0% Heat loss | 0.00 | 0.00 | 0.00
 | 0.00 | 0.0 | 0.00 | Check
 | Yes
Yes |
| | via. | Yes | Proposed 2 | External Walls:
Solid Masorry External Walls (SMEW)
Cavity Masorry External Walls (CMEW) | Win2.K m2
0.176 50.00

 | degree C | | degree C | degree C
17
 | W 149 | W | Area
m2
50 | m2 |
 | % | Ratio:
1 in x | |
 | | | | Auto-filled
 | Yes |
| | | No | Proposed 2 | Cavity Masonry External Walls (CMEW) | 5.882 0.00

 | ū | | 17 | 17
 | ů. | 149 | 0
Wall | 50 | 45%
 | 32.3% | 0.72 | 149.18 | 149.18
 | 0.00 | 149.18 | 0.00 | Review
 | Yes
Yes |
| No | Roof | Applicable | Scenarios | Elements | Calculated U value Areas
Wim2.K m2

 | External | Tier | Internal
destroy (| Difference
 | Heat
Individual
W | Total
W | Area
m2 | Total Areas
m2 | Areas
%
 | Heat loss | Natio:
1 in x | |
 | | | | Check
 | Yes |
| | | No
No | Proposed 2
Proposed 2 | Flat Roof (FR)
Pitched Roof (PR) | 0.107 0
#VALUE1 0

 | degree C
0 | - | degree C
17
17 | degree C
17
17
 | 0 | | 0 | |
 | | | |
 | | | | Auto-filled
Auto-filled
 | Yes
Yes |
| | Window Day | . I destination i | Recenter | - | Caladated II action 1 across

 | External | Ter | impenature
informati | Difference
 | Heat | 0
loss | Roof | 0
Total Areas | 0%
 | | 0.00
Matics | 0.00 | 0.00
 | 0.00 | 0.00 | 0.00 | Review
 | Yes |
| | WindowiDoonRoofligh | Addressee | Scenarice | Elements | Calculated U value Areas
Wim2.K m2
Assumed

 | External
degree C | | Infernal
degree C | degree C
 | w | Total
W | Area
m2 | m2 | %
 | Heat loss | Platox
1 in x | |
 | | | | Check
 | Yes |
| Yes | Windows | Yes | Proposed 2 | Windows (W) | 1.800 4.11
Assumed

 | a | | 17 | 17
 | | 112 | 4.11 | _ | 3.7%
 | | 6.58 | 111.79 | 111.79
 | 0.00 | 111.75 | 0.00 | Review
Check
 | Yes
Yes |
| Yes | Doors | Yes | Proposed 2 | Glazed Pedestrian Doors (GPD) | 1.800 1.80

 | a | | 17 | 17
 | 43 | 49
161 | 1.8
Combined | Door
5.9 | 1.8%
5.3%
 | 10.6%
34.8% | 6.55 | 48.96
160.75 | 48.96
160.75
 | 0.00 | 48.96 | 6 0.00
5 0.00 | Review
Review
 | Yes
Yes |
| | | | | |

 | | | |
 | | 462 | Total Envelop | 111.7 |
 | | 1.00 | 461.79 | 461.79
 | 0.0 | 461.75 | | Review
 | Yes |
| | | | | |

 | | | |
 | | 301 | Opeque Envelop | 106 | 95%
 | 85.2% | 0.69 | 301.04
Pasted values |
 | 0.00 | 301.04 | 4 0.00 | Choose
 | Yes
Yes |
| - | | | | |

 | No | No | Yes | Yes
 | Yes | No | No | Yes | Yes
 | | | Previous |
 | cenario
Improvement | | Improvement | Check
 | Mas
Mas |
| | | | | |

 | | | |
 | | | | |
 | | Insulation: | Set cell D4 to
'Previous' then | Set D4 to
'Proposed 1'
 | Having set D4
in two | Set D4 to
'Proposed 2' | Having set D4
in two |
 | |
| | | | | | Areas

 | | | |
 | | | | |
 | | ignore
undeveloped | to T151, paste | then review cells
U104 to U151 in
next column to
 | columns to
left, review
differences | cells W104 to
W151 in next | columns to
left, review
differences |
 | |
| | | | | Total Conduction Heat Loss |

 | Basement | Party floor | Party wall |
 | | Roof | Ceiling | Windows | Doors
 | | yet | > values | right
 | | column to right | below | Interact
 | Yes |
| | | | Total | Total Envelope Area of Conducted Heat Loss (TEACHL) | 111.7 m2

 | 0 | 0 | 0 | Floor
40
 | Wall
50 | 0 | 0 | |
 | 90 | 90 | £111.70 | £111.70
 | below
£0.00 | P 111 20 | 60.00 | Review
 | Yes |
| | | F | Total
Window/Doon/Rooflight
Walta Roof Floor | Total Envelope Area of Conducted Heat Loss (TEACHL)
Total Transperent Area of Conducted Heat Loss (TTACHL)
Total Opaque Area of Conducted Heat Loss (TOACHL)
Total Opaque Area of Conducted Heat Loss (TOACHL) | 5.9 m2
105.8 m2

 | | 0 | 0 | 40
 | 50 | û | 0 | 4.11 | 1.8
 | 90
5.91 | | £111.70
£5.91
£105.79 | £111.70
£5.91
£105.79
 | 20.00
20.00
20.00 | £111.70
£5.91
£105.79 | £0.00
£0.00
£0.00 | Review
Review
Review
 | Yes
Yes
Yes |
| | | | Walts Roof Floor
Window/Doon/Rooflight | Total Envelope Area of Conducted Heat Loss (TEACHL)
Total Temperant Area of Conducted Heat Loss (TRACHL)
Total Opagae Area of Conducted Heat Loss (TOACHL)
Total Opagae Area of Conducted Heat Loss (TOACHL)
Transparent areas heat loss as % of whole heat loss | 5.9 m2

 | 0 | 0 | 0 | 40
 | 50 | 0
0
0% | 0 | 4.11
3.7%
24.2% | 1.8
 | 90
5.91
86% | | £111.70
£5.91
£105.79
£0.96
£0.35 | £111.70
 | 20.00
20.00
20.00
20.00
20.00
20.00 | P 111 20 | £0.00
£0.00
£0.00
£0.00
£0.00 |
 | Yes
Yes
Yes
Yes |
| | | | Walts Roof Floor
Window/Doon/Rooflight | Total Opaque Area of Conducted Heat Loss (TOACHL)
Transparent area as % of whole | 5.9 m2
105.8 m2
5.59% %

 | | 0% | 0% | 40
 | 50 | û | 0 | 4.11
3.7%
24.2%
24.2% | 1.8
 | | 0 | £105.79
£0.06 | £111.70
£5.91
£105.79
£0.06
£0.35
 | £0.00
£0.00
£0.00
£0.00
£0.00 | £111.70
£5.91
£105.79
£0.06 | | Review
Review
 | Yes
Yes
Yes
Yes |
| | | | Walts Roof Floor
Window/Doon/Rooflight | Tote Opegas Area of Conduction Heal Loss (TOACH.)
Throngenerit area as 5 of whole
Transparent areas's of other of the set toos
In-Use Energy | 5.3] n2
95.8] n2
5.93% %
34.81% %
%
n2

 | 0% | | 0 | 40
36%
32.9%
 | 50
45%
32.3% | 0 | 0% | _ | 1.8
1.8%
10.8%
 | | 0
Insulation:
ignore
undeveloped | £105.79
£0.06
£0.35 | £111.70
£5.91
£105.79
£0.06
£0.35
 | £0.00
£0.00
£0.00
£0.00
£0.00 | £111.70
£5.91
£105.79
£0.06
£0.35 | | Review
Review
Review
Check
 | Yes
Yes
Yes
Yes |
| | | | Walts Roof Floor
Window/Doon/Rooflight | Tote Opagas Area of Contactual Heal Lass (TOACH.)
Theraperent area as 5 of whole
Transparent areas has to obvious as 5 of whole head toos
In-Use Energy
Floor area
Wate | 5.33 /n2
95.83 /n2
5.53% %
34.81% %
%
/n2
36.270
46.735 W

 | 0%
0.0%
Basement
0.00 | Party foor
0.00 | 0
0% | 40
36%
32.9%
Floor
151.88
 | 50
45%
32.3%
Well
149.18 | 0
0%
0.0%
Roof
0.00 | 0
0%
0.0%
Celling
0.00 | 24.2%
Windows
111.79 | 1.8
1.6%
10.6%
10.6%
Doors
48.96
 | | 0
Insulation:
ignore
undeveloped
yet
0.00 | 2105.79
20.06
20.35
Previous
36.270
451.790 | 2111.70
25.31
2105.79
20.06
20.35
Proposed 1
36.270
451.790
 | 20.00
20.00
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20.000 | E111.70
E5.91
E105.79
E0.96
E0.35
Proposed 2
96.270
461.790 | 0.000
0.000 | Review
Review
Check
Review
Review
 | Yes
Yes
Yes
Yes
Yes
Yes |
| | | | Walts Roof Floor
Window/Doon/Rooflight | Total Opaque Area of Conducted Heal Lass (TOACH-)
Torraparent area to 5 of whole
Transparent area's heal loss as 5 of shote heal loss
In-Use Energy
Floor area
Works
Not Area
Notivers
NotWatts | 35 m/a
9553 m/a
5 5975 %
34315 %
16
17
17
18
19
19
19
19
19
19
19
19
19
19

 | 0%
0.0%
Bakement
0.00
0.00
0.00
0.00 | Party floor
0.00
0.00
0.00 | r Party well 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 40
36%
32.9%
Floor
151.68
0.15
0.02
0.07
 | 50
45%
32.3%
Well
149.18
0.15
0.00
0.07 | 0
0%
0.0%
Roof
0.00
0.00
0.00
0.00 | 0
0%
0.0%
0.0%
0.00
0.00
0.00
0.00 | 24.2%
Windowa
111.79
0.11
0.00
0.05 | 1.8
1.8%
10.8%
10.8%
Doors
48.96
0.05
0.00
 | | 0
Insulation:
ignore
underweloped
yet
0.05
0.02
0.02
0.02 | 2105.79
20.06
20.35
Previous
36.270 | 2111.70
25.31
2105.79
20.06
20.35
Proposed 1
36.270
 | 20.00
20.00
20.00
20.00
20.00
20.00 | E111.70
E5.91
E105.79
E0.06
E0.35
Proposed 2
Proposed 2
0.462
0.015
0.204 | Improvement
0.000 | Review
Review
Review
Check
Review
Review
Review
Review
Review
 | Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes |
| | | | Wala Roof Floor
WindowDoorRooflight
Wala Roof Floor | Tote Opega Area of Conducted Heal Lass (TOACH.)
Torreparent area to 5 of whole
Transparent area's to of whole
Transparent area's 5 of whole heat loss
In-Use Energy
Floor area
Watts
Norwith Standards
Norwith Norwith Norwit | 35 m2
355 m2
5995 %
34355 %
%
74
74
75
76
76
77
70 W
0,52
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70 W
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70 W
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0.00 | Party floor
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0.00
0.00
0.00
 | | 40
38%
32.9%
Floor
151.68
0.15
0.00
0.07
2.43
0.07 | 90
45%
32.3%
Vial
540.18
0.05
0.03
0.07 | 0
0%
0.0%
0.0%
0.00
0.00
0.00
0.00
0.00 | 0
0%
0.0%
0.03
0.03
0.03
0.03
0.03
0.03
 | 24.2%
Windows
511.79
0.11
0.00
0.05
1.79
0.05 | 1.8
1.8%
10.8%
10.8%
Doors
48.96
0.05
0.00
0.02
0.78
0.02 | 86% | 0
Insufation:
Ignore
underveloped
ywi
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0.00
0.00
0.00
0.00
0.
 | 2105.79
20.06
20.35
Previous
36.270
461.790
0.492
0.013
0.234
7.389
0.234 | E 111.70
E 2-31
E 106.75
E 02.66
E 02.35
Proposed 1
96.270
441.790
0.442
0.013
0.234
7.339
0.324 | 20.00
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Proposed 2
95.270
461.790
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0.204
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| | | | Wala Roof Floor
WindowDoorRooflight
Wala Roof Floor | Total Opagas Area of Conducted Heal Lass (TOACH-)
Torregarent area as 's of whote
Transparent area's has as 's of whote
Transparent area's has as 's of whote heal two
In-USE Energy
Floor area
Votats
Biodrawas
Notiveation area
Notiveation area
Notiveation area | 3.5 m/2
35.5 m/2
5.99% %
34.81% %
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Basement
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0. | Party floor
0.00
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0.00
0.00
0.00 | 0 0% 0% 0% 0% 0% 0.0% 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 40
38%
32.9%
Floor
151.88
0.05
0.07
2.43
 | 90
45%
32.3%
Veal
549.18
0.15
0.03
0.07
2.93
0.07
9.93 | 0
055
0.0%
0.00
0.00
0.00
0.00
0.00
0.00 | 0
0%
0.0%
0.0%
0.00
0.00
0.00
0.00
0.00 | 24.2%
Windows
111.79
0.11
0.00
0.05
1.79 | 1.8
1.6%
10.8%
10.8%
Doors
48.96
0.05
0.00
0.02
0.78
0.02
3.28
 | 86% | 0
Insulation:
kgnore
underveloped
ywf
0.00
0.00
0.00
0.00
0.00 | 2105.79
20.06
20.35
Previous
36.270
441.790
0.492
0.013
0.234
7.389 | E 111.70
E 3.91
E 105.79
E 20.06
E 20.35
Proposed 1
35.270
461.700
0.462
0.013
0.224
7.339
 | 20.00
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20.00
20.00
20.00
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20.00
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E3.91
E105.79
E0.05
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Proposed 2
95.270
461.790
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0.015
0.204
7.389 | Improvement
0.000
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0.000
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Review
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Check
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Review
Review
Review
 | ***** |
| | | | Wala Roof Floor
WindowDoorRooflight
Wala Roof Floor | Total Opegas Area of Conducted Heal Loss (TOACH-)
Torregarrent area as 's of whole
Transparrent area's its of whole
Transparrent area's 's of whole heal toos
In-Use Energy
Floor area
Works
Works
KoleVisiteToor area
KoleVisiteToor area
KoleVisiteT | 35 m2
353 m2
5 975 %
34315 %
162
163
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163

 | 0%
0.0%
Basement
0.00
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0.00
0.00
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 | Party floor
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0.00 | 0 0% 0% 0% 0% 0% 0.0% 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 40
38%
32.9%
Floor
151.68
0.15
0.00
0.07
2.43
0.07
10.16 | 90
45%
32.3%
Veal
549.18
0.15
0.03
0.07
2.93
0.07
9.93
 | 0
0%
0.0%
0.00
0.00
0.00
0.00
0.00
0.00 | 0
0%
0.0%
0.03
0.03
0.03
0.03
0.03
0.03 | 24.2%
Windows
111.79
0.11
0.00
0.05
1.79
0.05
7.48 | 1.8
1.8%
10.8%
10.8%
Doors
48.96
0.05
0.00
0.02
0.78
0.02 |
86% | 0
Insu/alion:
kgnone
undre-sloped
ywl
0.02
0.02
0.02
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0.02
0.02
0.02 | 2105.79
20.06
20.35
Previous
36.270
461.790
0.492
0.013
0.234
7.389
0.234 | E 111.70
E 2-31
E 106.75
E 02.66
E 02.35
Proposed 1
96.270
441.790
0.442
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0.324 | 20.00
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 | £111.70
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£0.95
£0.95
Proposed 2
95.270
461.790
0.482
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 | Yas
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| | | | Wala Roof Floor
WindowDoorRooflight
Wala Roof Floor | Tota Opega Area of Conducted Heal Law (TOACH-)
Torreparent area to 5 of whole
Transparent area's to of whole
Transparent area's to of other heal toos
In-Use Energy
Floor area
Wath
Not/Wath
KolWAthinson area
KolWAthinson area
KolWAthinson area
KolWAthinson area
KolWAthinson area
KolWAthinson floor area
KolWAthinson fl | 35 m/a
353 m/a
5 995 %
34315 %
14
12
35 270
45 770 W
0 45 770 W
0 445 White
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0 245 White
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 | 0%
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8ereement
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 | 0 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% | 40
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540.18
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2.79.46 | 0
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0 | 0
0%
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0.03
 | 24.2%
Windows
111.79
0.05
1.79
0.05
1.79
0.05
7.48
239.43 | 1.8
1.8%
10.8%
10.8%
Doors
48.96
0.05
0.05
0.05
0.02
0.78
0.02
0.78
91.72 | 86% | 0
Insulation:
kgroos
underveloped
ywf
0.05
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 | 2163.79
20.36
20.35
Providus
35.270
461.790
0.462
0.013
0.204
7.389
0.204
35.400
865.007
Providus | E 111.70
25.31
2105.79
20.36
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Proposed 1
36.270
441.700
441.700
0.482
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Proposed 1 | 60.00
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- Technician and Architect by Training
- Specification Writer by Choice
 Environmentalist by Actions

- Writer and Editor by necessity (Websites & Book parts)
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