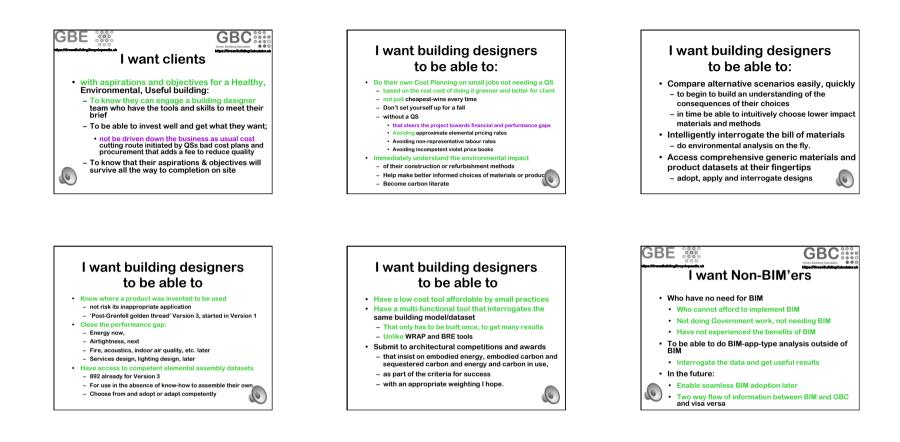
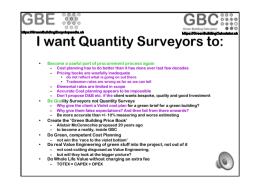






	I don't want:
•	A building Performance Gap
	 Started by philosophical, aesthetics and snappy-graphics education
	 Little or no technical, physics, science, numeracy, environmental education Increasingly challenging Legislation Regulation interpretation and Administration
	 Increasingly challenging Legislation Regulation interpretation and Administration RIBA discouraged and shrinking supervision role
	 – RIBA discouraged and shrinking supervision role – Insurance encouraged "don't approve anything"
	 Evolves into vulnerable technical design
	 Invited by "Or Similar" annotation of drawings ("Or Equivalent" is safer)
	 Undermined by surreptitious substitution
	 Brought on by inadequate tender
	 Manipulated by Dutch bargaining
	 Lubricated by power over supply chain
	 Facilitated by out of control & bespoke procurement methods
	 Muddled by misaligned perceptions
	 Encouraged by Constructing Excellence 10% year on year improvement
	 Compounded by 2013 Industrial strategy -33% cost, -50% emissions, -50% time Cost cutting in disguise as "value engineering"
	 Cost cutting in disguise as value engineering Driven by inadequately specific incompetent cost planning
	 All leading to: incapacity of construction sector to deliver:
	 All leading to: Incapacity of construction sector to deliver: Client's bespoke design, green brief & investment ambitions







GB	E :
	Make multi-functional materials, products and systems: - But avoiding composites and mixing natural with technical materials - To replace many singular function alternatives - That succeed in Value Engineering processes • Because they are difficult to ababtute
•	A section of the section of substantial A section of substantial A section of substantial section of substantial A section of the section of substantial section of sectio
•	Make their independently verified credible data available – as 'big open data' in 'consistent formats' – Readity interrogated by calculators with intelligent search functions
•	Populate GBC Product Data Collection tables to create a single robust source and allow integration into GBC & bespoke Calculators – Share NBS Source datasets and add green data – Create Green Building Product Dataset & Green Building Price Book
	In BIM provide: - High Levels of Information (LOI) - Before High Levels of Detail (LOD) - Enable High Levels of Accuracy (LOA)



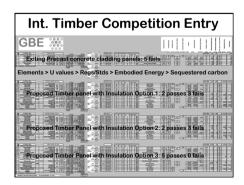


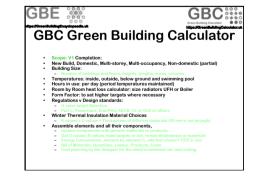






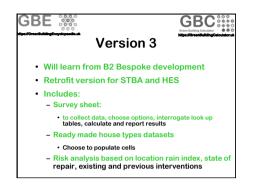
GBC prepared and provided:
U value calculations with each insulation option
 In use Energy & Carbon comparisons:
 Building Regulations AD L
– AECB Carbon lite,
– Passivhaus
 LETI U values
 Embodied Energy, Embodied Carbon and Sequestered carbon
 before and after calculations





GB	E See GBC
	V2 Current Development
	Progress:
	Non-Domestic, Retrofit and Newbuild more elements;
	Terraces, Community level, Form Factor refinements: dormers, bays, porches;
	Decrement Delay, Condensation Check, > Version 3
	Embodied Energy, Carbon and Sequestered carbon;
	LCA Calculator & Materials Miles > Version 3
•	External Envelope elements: 24 > 41
•	
•	Non-external envelope elements:
	 MEP Services: 20 Domestic, Landscape: 20 elements
	- Interiors, Furniture: 25 elements
•	Secondary Element Calculator:
	- U Glass, U Frame, Psi glazing bar, U Window, Psi Perimeter



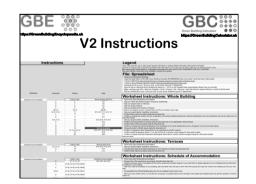


Manufacturer Remanufacturers	Importers Agents Distributors	Suppliers Builders Merchants	Installers Applicators	Product Information Providers
Components: Products Data Sheet Products Accessories Windows, Glading Accessible Dismarks & Systems	Primery Function Beliding Application Preduct	Costs: Phoducts Costs: Accessories Costs: Lateur	Energy EE EC LCA SC EPO TO A-D Carbon	Product Data Collection
Drop Down Lists: Materials Products	Look Up Tables: Product Data Sheet	Schedule of Accommodation:	Form factor > Target U values	Excel mechanisms Data Sources
Insulation k values	Material k values Conductivities	Quantities > Sizes > Areas > Volumes	Roof Geometry Protrusion Geometry	Data inputs
Targets: U values Regulations v Design Standards	Surface & Cavity Resistivity	Internal, External & Soil Temperature Hours of use	Multiple Room Sizes Room by Room heat losses Multiple Glazing	Generic Materials Datasets Choosing targets & Data sources
Target Airtightness Target Glazing %	Building Elements Yes/No	Option Switches ++	sub-element sizes	Option Switches for more detail Choosing
EE EC SC BC Gaung cremation	Building Elements	Sub contractor Quotes	Tenderers	Price Information
Element Assembly: Components Exists or New Gen Mat or Product k, U or R value check & warn	Thermal Bridge Break Contensation Decrement	BilloMat BofProd BofCoan BofCoan BofCost	Energy EE EC SC EPD AD Carbon	Chosen Elements Choosing Components Choosing Materials or Products
Non Envelope EA Furniture Interiors Trades, MEP Landscape Unit Response EA Resolvement EA	GBC Users: Designer Engineer Specifiers FM PM CAD operators CP, QS & VE CDP & EPC Contractors	BillofMat BolProd BolQuan BolQuan BolCost	Energy EE EC SC EPD AD Carbon	Automatic Number Crunching Checking Targets Met or warnings GBC Users
Summary Sheet Elements & Building U values In use Energy & %s Fuel Choice + Fuel Carbon factors = In-use Carbon	Summary Sheet: Elements & Building Embodied Energy Embodied Carbon Sequestered & Biogenic Carbon Life Cycle Assessm1	Summary Sheet Elements & Building Cost Eim2 PaybackCarbonback In-use Energy + Fuel Costs = In-use Costs	With instantaneous results for any change in spec. Potential to do well-informed Value Engineering not dumb Cost Cutting	Dashboard Summary Sheets Purpose of Green Building Calculator

Manufacturer Remanufacturers	Importers Agents Distributors	Supp Builders N	pliers Verchants	insta Appix	lers ators	Local Procurement	ProductsMaterials: Factory gate to site	Products/Materials: Transport miles	Transport Emissions LCA
Components: Products Data Sheet	ey lon Pig tion sti	oducts	ories abour	Energy EE EC	LCA	Products Data Sheet	Building Section Coding	Appropriate and Competent Application	Elemental Assembly Code Numbers
Windows Classing According Demants & Systems	Prime Funci Autos Partorn	Costs P Cost Access		SC BC Carbon	EPO A-O	Readynade Conpetent Elemental Assemblies	Bespcke Elemental Assemblies	Nandacturers Accredited Systems	Secondary Element Calculator
Drop Down Lists: Materials Products	Look Up Tables: Product Data Sheet	Accomm	Schedule of Accommodation: Quantities > Sizes		on: Target U values		FM Specification Generator	CBPB Green Building Price Book	Structures Calculator
Insulation k values	Material k values Conductivities	> Areas >	Volumes	Roof G Protrusion Multiple R	Geometry	Non-Domestic Retroft	Domestic new Build	Non-Domestic New Build	Landscape Elements
Targets: U values Regulations v Design Standards	Surface & Cavity Resistivity	Internal, E Soil Tern Hours	perature	Room by Room heat losses Multiple Glazing		ICE V3 Inventory of Energy & Carbon	LCA Database Datasets	Climate Appropriateness	Chils & Infrastructure
Target Airtightness Target Glazing S	et Airlightness Building Elements		Option Switches ++		ent sizes	Entroled/Separatered Energy & Carton	LCA Celculator	Thermal Mass Calculator	Fumiture Impact Calculator
Giazing orientation	acing overtation Detail (oversions)		Sub contractor Quotes		ins	EE EC SC Celculator	Design Life & Durability	Airlightness & Energy Loss	Furniture Dataset
Element Assembly: Components Exists or New Cen Mat or Design	a Dinga and Control A Date	BilleMat BofProd BofAcce BofAcce	10	Energy EE EC SC	LCA	Sequestered Carbon calculator	Waste Cost Calculator	Indoor Air quality Calculator	Interior Finishes Dataset
k, U or R value check & warn	Tan and a second	BofLab BofCost	<u>88</u>	Carbon	A0	Carbon consumed or avoided	Plastics Diverted and recycled	Plastic free options database	Interior Finishes Dataset
Non Envelope EA Furniture Interiors	GBC Users: Designer Engineer Specifiers FM PM	BileMat BoProd Bolkcos		Energy EE EC	LCA	EE & EC in Waste EE & EC in Reclaim	Reclaim Reuse Resource Audhs	Circular Economy Resource Efficiency	Ska Fit-out Refit Interface
Landscape Landscape User bespoke EA Ready-made EA Infracture MIP	CAD operators CP, QS & VE CDP & EPC	BofQuan BofQuan BofCold	Demaid Cost Plu	SC Carbon	690 40	Self Build Construction Primer	Linis to Green Building Encyclopaedia	Bird Box Bat Roost Integration Check	Biodiversity Net gain
Infrastructure MEP Summary Sheet	Contractors	Second		With insta		Whole project Budget calculator	Overheads Prolits Fees Preliminaries	Construction on-site Emissions	End of Life Solutions
Elements & Building U values In use Energy & %s	Elements & Building Embodied Energy Embodied Carbon	Elements Cost PaybackO	& Building (EIm2 (arbonback	results change Potentia	for any in spec. al to do	Renewable Energy Calculator	MEP Services Calculator	Lighting Calculator	Light Nutrition Calculator
Fuel Choice + Fuel Carbon factors = In-use Carbon	Sequestered & Biogenic Carbon Life Cycle Assessmit	In-use E Fuel + In-us	Costs	well-inform Enginee dumb Co	ring not	International Regional versions	Imperial Metric U v R values	Currency	Local Product Datasets
Green Bu	ilding Calc	ulator	V 2	GB(Ciiii		lding Calcu		GBCiii

roduct Information Providers	Local Procurement	Products/Materials: Factory gate to site	Products/Materials: Transport miles	Transport Emissions LCA
Product Data Collection	Products Data Sheet	Building Section	Appropriate and	Elemental Assembly
emental & Sub-elemental		Coding	Competent Application	Code Numbers
Assemblies Specifications	Readymade Competent Elemental Assembles	Bespoka Elemental Assemblies	Manufacturers Accredited Dystems	Secondary Element Calculator
Prices	Specification	FM Specification	GBPB Green	Structures
	Generator	Generator	Building Price Book	Calculator
Scope of Work	Non-Domestic	Domestic new	Non-Domestic New	Landscape
Other Disciplines	Retrofit	Build	Build	Elements
rgets & Data sources	ICE V3 Inventory of	LCA Database	Climate	Civils &
	Energy & Carbon	Datasets	Appropriateness	Infrastructure
LCA & design Life	EnbodedSequestered Energy & Carbon	LCA Celculator	Thermal Mass Calculator	Furniture Impact Calculator
Interiors	EE EC SC Calculator	Design Life & Durability	Airtightness & Energy Loss	Furniture Dataset
Waste	Sequestered	Waste Cost	Indoor Air quality	Interior Finishes
	Carbon calculator	Calculator	Calculator	Dataset
Plastics	Carbon consumed	Plastics Diverted	Plastic free options	Interior Finishes
	or avoided	and recycled	database	Dataset
Circular Economy	EE & EC in Waste	Reclaim Reuse	Circular Economy	Ska Fit-out Refit
	EE & EC in Reclaim	Resource Audits	Resource Efficiency	Interface
Self Build	Self Build	Links to Green Building	Bird Box Bet Roost	Biodiversity Net gain
Biodiversity	Construction Primer	Encyclopaedia	Integration Check	
Preliminaries	Whole project	Overheads Profits	Construction on-site	End of Life
	Budget calculator	Fees Preliminaries	Emissions	Solutions
MEP Services	Renewable Energy	MEP Services	Lighting Calculator	Light Nutrition
International Variations	Calculator	Celculator		Calculator
Bespoke Modules	International Regional versions	Imperial Metric U v R values	Currency	Local Product Datasets
	Green Bui	ding Calcu	ator V3-39	GBC





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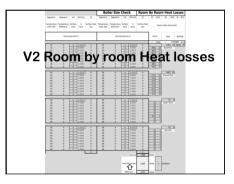
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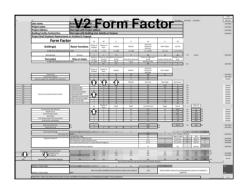
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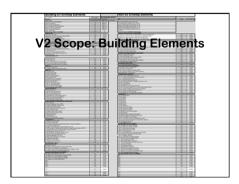
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Other Geo	merty Roofs	Which roo??	RealPlach	Ridge/Vpcx Height above source	Quantity	width	Length	Area	Volume
		Yes/%0	Degrees		No.			m2	m3
	22 Fait Roof (FR)	Tes	1	0.25		6	33.00	\$2.08	7.50
	23 Shallow Roof (SR)	12	12	12	-12		23.05	11.08	15.02
	24 Pitched Roof (PR)	744	4	4	ų.	6	23.44	62.64	93.96
	25 Barrel Vault Reof (RVR)	Yes		2.5	1	6	9.43	54.54	133.32
	25 Dorned Roof (DR)	Tes		2.5	1	6	9.43	84.83	\$6.56
	27 Hipped/Pyranid Roof (HPR) 28 Minus Birched Boof (NPR)	Yes	25	3	1	- 6	23.44	62.64	93.96
		<u> </u>	2	1	- 6	33.44	62.64	93.96	
	20.1 Mansards Roof Flat (MR.F)			0.25	1	6	9.75	58.52	147.19
	23.2 Mansard Roof Vertical (MR.V)	Yes	80	2.5	1	6	2.51	15.67	0.00
	4) Other Geometry Ceiling (DGC)	•	2		1	6	13.42	80.50	121
	45.5 Central		80		Δ		25.62	98.72	2
	41.2 Hyperbolic Parabaloid		30	1	- U-		26.92	221.82	>
	41.3 Diagonal Butterfly		30	2	1	6	13.42	80.50	>
	41.4 Truncated Conical		30	3	1	6	13.42	80.50	2
	41.5 Inverted fruncated Canical		30	3	1	6	13.42	80.50	
	41.6 Secant Plan		30	2	1	- 6	13.42	80.50	2
	41.7 Circular/Oval Plan		30	3	1	6	13.42	80.50	
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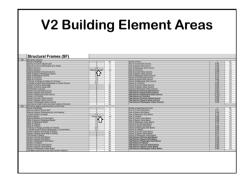
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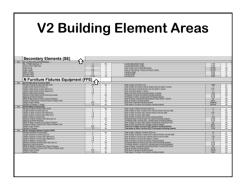


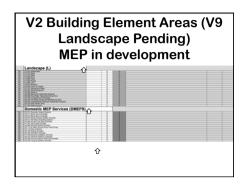


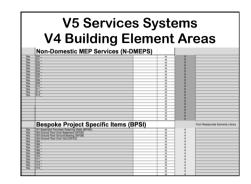


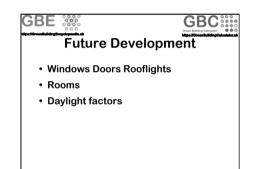
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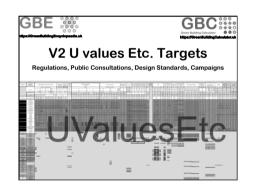


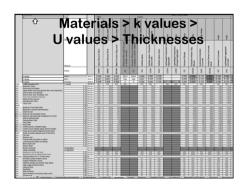


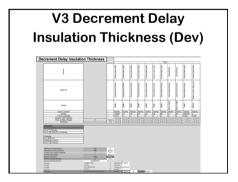


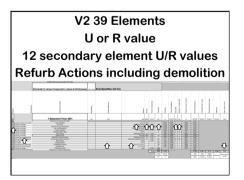


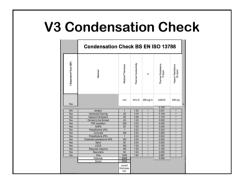
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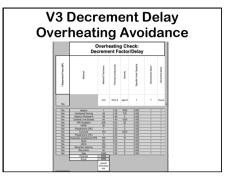






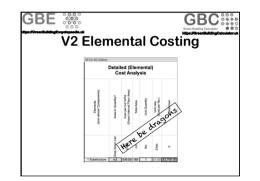






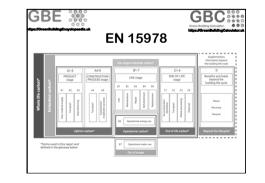


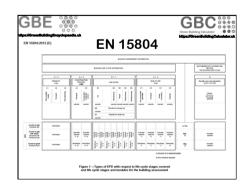
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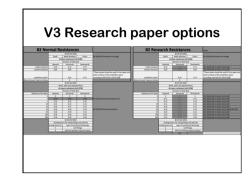
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Mass/Declared Unit	kg/Declared Unit
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Embodied CarbonO2 equivalent	kgCO2a/kg
Embodied CarbonO2 equivalent	kgC02eitonne
Embodied CarbonO2 equivalent	kgC02eim2 per 1 mm
Embodied CarbonO2 equivalent	kgCO2eim2 per 100 mm
Embodied CarbonO2 equivalent	kgC02e/unit
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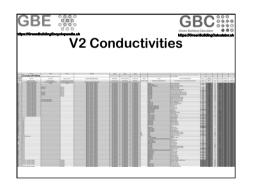


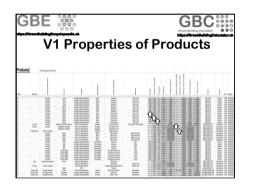


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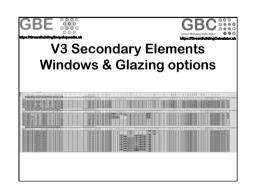
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0.04	0.13	0.17	-
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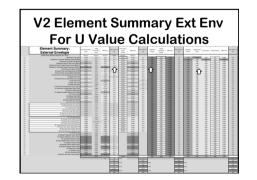






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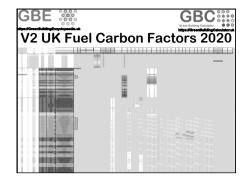




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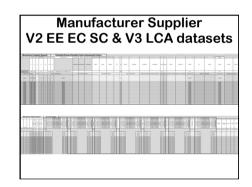
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	2020 Provisional Data YTD	Wartsila Eneergy Transition lab	
	Europe	Electricity carbon Intensity	
	Country	#CO2/Wh	McO2/AWh
	Norway	50	0.01
	Sweden	14	0.018
	France	30	0.03
	Austria	88	0.088
	Lithuania	118	0.118
		126	0.126
	Spain		
	Portugal	134	0.134
	Finland	136	0.136
	Latvia	138	0.138
	Belgium	148	0.148
	Denmark	168	0.168
	UK	186	0.186
	Slovenia	222	0.222
	Slovakia	224	0.224
	Hungary	228	0.228
	Romainai	234	0.234
	Ireland	238	0.238
	Germany	240	0.24
	Italy	290	0.29
	Greece	380	0.38
	Estonia	385	0.385
	Bulgaria	395	0.395
	Czechnia	430	0.43
	Netherlands	530	0.53
	Poland	700	0.7



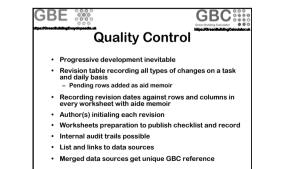
		, -	arbon Costs
Total Conduction Heat Loss	Areas		
Total Envelope Area Conducted Heat Loss (TEACHL)	5395	m2	Total
Total Transparent Area Conducted Heat Loss (TTACHL)	359	m2	Window/Doon/Rooflight
Total Opeque Area Conducted Heat Loss (TOACHL)	5036	m2	Walls Roof Floor
Transporent area as % of whole	7.12%	- N	Window/Doon/Rooflight
In-Use Energy	1		V2 Then add
Floor area	5.395	m2	vz men add.
Watts	54,154	W	
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MoWattHours	112.9	kWb	
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KloWattHours/foor area	0.0209	kiVh/m2	
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In-Use Carbon Dioxide	1		RIBA CH
Fuel Choice	Mains Electricity Late 2020	Drop Down List	
CO2 equivalent		kg CO2egkWh	-
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In-Use Hours	1		
Hours of operation/day (Spaces thermally conditioned)		hid	Change at ScheduleAccommodation N11 or edit here
Days Per week	7	d/wk	-
Weeks per year	52	wly	
Hours/Year	2912	Ny	V2 Then add
Hours/Year maximum potential	8736	Ny	vz men add:
Percentage of maximum potential	33.33%	5	
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Fuel Choice	Mains Electricity Late 2020	Drop Down List	Carbon Pay Back
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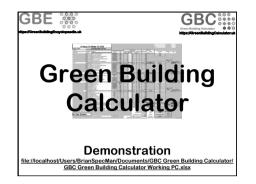
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V2-V36 Planned	1	Development
Priorities to bring forward:		V20 Lighting Design Module: Health & Wellbeing, Light
 V2 Retrofit, Terraces, Community level, MEP Services, 		Nutrition
 V3 Decrement Delay, Form Factor refinements: dormers, 	•	V21 Biodiversity Inclusion, Biodiversity Net Gain
bays, porches	•	V22 Local Climate Appropriate construction and materia
 V4 Building Section Coding, Competent Application, 	•	V23 Vernacular, local: materials, trades, economy
 892 ready made elements, Bespoke Assemblies, 	•	V24 GBPB Green Building Price Book
Accessories, Specification Generator		V25 O&MM Operation & Maintenance Manuals
 V5 Non-Domestic, Retrofit and Newbuild more refinement 		V26 FM Specification
 V6 Embodied Energy, Carbon and Sequestered carbon; Ne external envelope elementa 	n- •	V27 Local Procurement, Transport to site, distance sear facility
 V7 Condensation Check, Thermal Bridge, Secondary Elem 		V28 On Site Construction Emissions
 V7 Condensation Check, Thermal bridge, Secondary Elem Calculator. Thermal mass calculator 	int.	V29 Design Life. Durability and Competent Products
 V&I C4 Calculator 		V29 Design Life, Durability and Competent Products V30 Air tightness & Energy Loss
• V9 Landscare		V31 Value Engineering Opportunities: in not out
 V10 Civits and Infrastructure: scope Increased 		V32 Healthy Building
 V11 Waste Calculator using WasteCostRLite 		V33 Screening Priorities
 V12 Plastic free v Recycled Plastic 		V34 Indoor Air Quality
 V13 Interiors: Scope increased, Ska fit-out. refit 		V35 Natural Lighting Levels
 V14 Circular economy: Reclaim Reuse 		V36 Demolition Embodied carbon in waste
 V15 Self-build Interface 		
 V16 CAD BIM App 	BB	aspoke
 V17 Whole Project Budget Calculations, full Fee bid 		B1 Retrofit Window & Insulation Calculator
calculation based on cost plan	•	B2 Responsible retrofit Carbon Calculator
 V18 EU and International versions 	•	B3 Window Calculator
 V19 Services Design Module: Occupancy level, Energy 	•	B4 Screeds Calculator





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GBE Win File Updates 1 GBC							
Rev No.	Comments	Author	Date				
A00	Created for CPD Whole Building Calculator	BRM	30/06/2012				
A01		BRM	11/09/2020				
A02	Update for STBA SPAB event with EH Bespoke	BRM	06/10/2020				
A03	Update after STBA SPAB Event	BRM	07/10/2020				
A04	Update for WiSR CIOB Event Infrastructure	BRM	27/05/2021				
A05	Update for LSI RISE awards 2021 poster file	BRM	18/06/2021				
A06	Update for COINS Awards 2021 V32 & 33	BRM	26/06/2021				
A07	Funding Enquiry	BRM	16/09/2021				
A08	GBC Expansion BQ Enquiry Diagram	BRM	28/09/2021				
A09	Update for TGR TT reduce for short presentation	BRM	03/10/2021				
A10	Update after TGR TT	BRM	11/10/2021				

Rev No.	Comments	Author	Date
A11	Update Versions 1 to 36 and Bespoke List	BRM	01/11/2021
A12	CIAT updates and tweaking add V34-36 add B2 screenshot slides & B5 NRM4	BRM	06/12/2021
A13	Added B5 NRM4, UKGBC criteria & Quality Control post-CIAT update for CIAT and websites	BRM	09/12/2021
A14		BRM	
A15		BRM	/2021
A16		BRM	/2021
A17		BRM	/2021
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	Founded National Green Specification 2001 Funded and Launched www.greenspec.co.uk 2003 Created: GSE at <u>https://arcensbuildingencyclopaedia.uk</u> 2015 Launched: GSE Learning <u>https://GSELearning.com</u> 2020 Green Building Calculator <u>https://GreenBuildingCalculator.uk</u> 2020 E <u>BrainSpeckMan</u> Linkedin: <u>BrainSpeckMan</u> Linkedin: <u>BrainSpeckMan</u>	
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