







Capturing AECB's Golden Nuggets & Guru Know-How

Promoted by Brian Murphy
Green Building Encyclopaedia (GBE) proposal to
Association for Environment Conscious Building (AECB)
Championed by Julia Bennett and Paul Bourgeois









This presentation:

- Is available on http://.GreenBuildingEncyclopaedia.uk/
- Page: ...?P=12210 for PDF added today
- I will build hyperlinks from text content into the relevent pages of the website to expand on the content if you wish to explore further



AECB Knowledge Management

- At Goldsmith College Conference
- Talk of aging membership
- And Potential loss of know-how
- Need youth to carry the baton
- GBE offers complimentary option
 - Record what you know before its lost
 - In an on-line encyclopaedia with datasete equations, calculators, tools, library, c studies, etc.







AECB Forum Mining

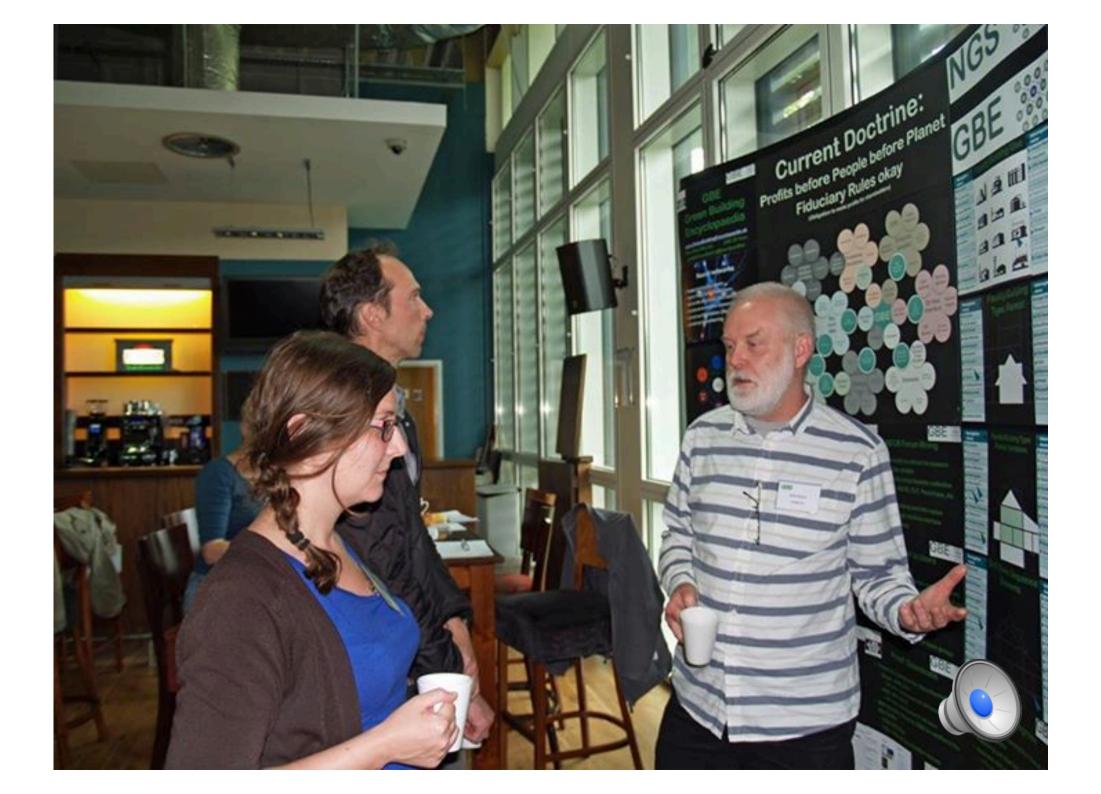
- An opportunity to extract the essence or golden nuggets of information
- Filter out the chatter and repetition
- Organise into encyclopaedic collection
- Complement or reinforce AECB know-how:
 - AECB standards, CLP, CLR, Passivhaus, etc.
- Joined up linking of information
- Access through intuitive interface
 - GBE 2D or 3D Interface



Sheffield 2015 AECB Conference

- Made very welcome after a long absence
- Presented this idea in the exhibition space display
- Generated some interest
- Julia and Paul said we should try to make it happen

16/07/18 Mentioned in Social Media



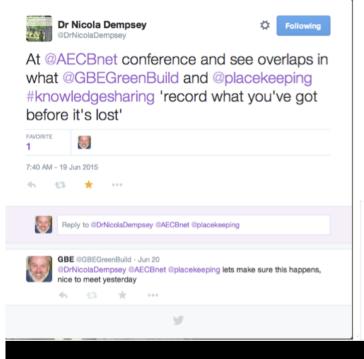




www.GreenBuildingEncyclopaedia.uk













Other reason for this proposal:

- AECB is a fountain of knowledge and expertise
- We know it, but very few other people do
- The AECB Forum helped to spread the word wider than membership (check-out the stats!)
- CarbonLite training is converting others slowly (CLR too)
- Passivhaus Plus is a new outlet to a wider audience
 - Fran pleaded for more engagement
- But there are millions that need to have AECB know-how
- If we are to have any significant effect, we cannot do it alone
- We need to share, more, faster, to those who can act on

16/07/16 We must not hold back

(no more not wanting to share what is our know-how)

Current Doctrine: Profits before People before Planet Fiduciary Rules okay

(Legal obligation to make profits for shareholders)

- Trying to change the majority in the industry is impossible
- "I have always done it like this, why change now?"
- Even if they want to change its too big a task
- Youth of the world want future stability
- With guidance can start afresh in their own enterprises
- Youth can carry the torch without the burden
- AECB can show the way

Current Doctrine:

Profits before People before Planet Fiduciary Rules okay

(Obligation to make profits for shareholders)

GBE HERACEYTM

Healthy Environmental Resourceful Appropriate Competent Effective Yardstick

There are two parts to this proposal:

- Extract the golden nuggets out of the AECB forum
- Capture the know-how of the AECB guru before its lost forever



Plus two options or extensions

- Extract the essence out of the Magazine and turn it into a long term resource
- Non-Guru Members know-how collected and organised



There are two complimentary parts being offered to build on:

- Green Building Encyclopaedia (GBE)
- GBE 2D/3D View: an interface to GBE











underlying ambitions

- Paul tells me that the committee
 - and members?
- Want to develop a level of professionalism?
 - Or be more professional?
- To enable fit with and assimilation into mainstream?
- Conventional materials and construction performance is understood and taken for granted and is the default
- Green is unknown and nothing is taken for granted and has to be proved each time
- More research needs to be done or knowledge disseminated in the best way possible to be accessible all when making everyday choices (ASBP similar ain



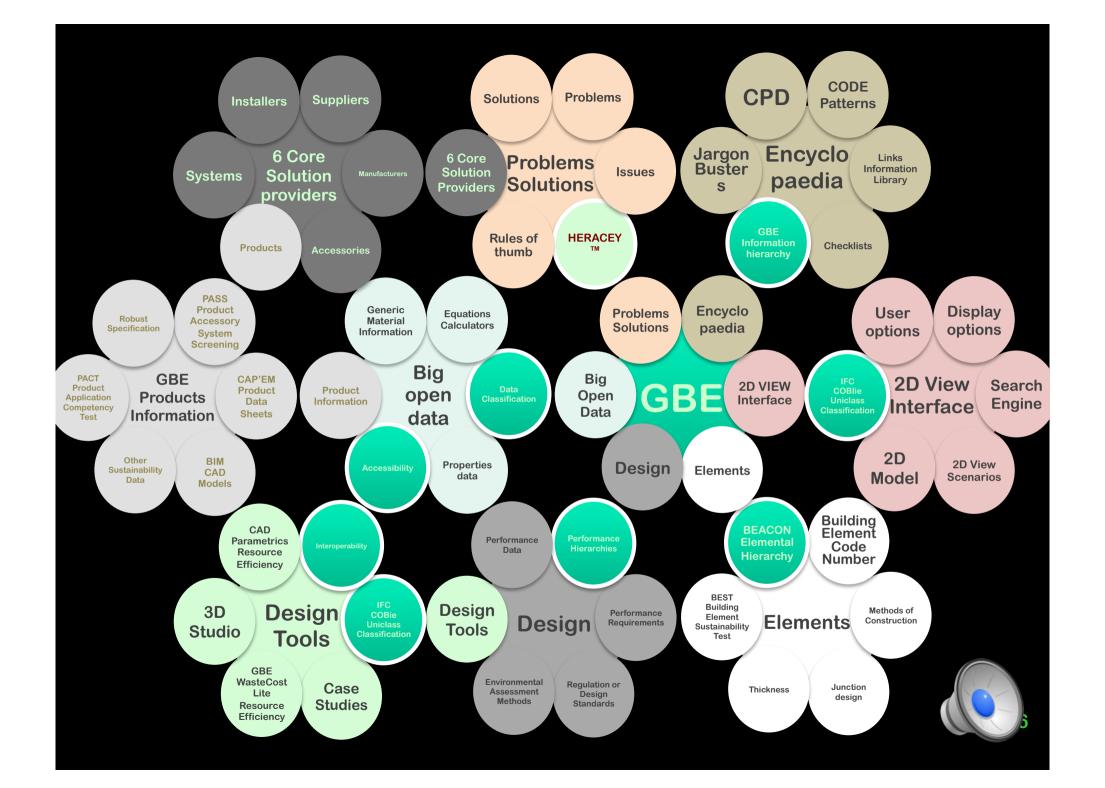






Green Building Encyclopaedia











Site map

- 60 items in this mind map
- 275 Page groups in the site map so far
- 1925 pages so far, 30,000 anticipated
- This takes a lot of navigating
- So a novel navigation method has been developed











Neural Network Navigation



Neural networks

- Human brains are clever
- Some magic to be found here
- Memories (Neurons) and connectivity
- Clustered memories connected
- Joined up Information (Neural networks)
- Joined up remembering











Tapestry

- 1971
- Carole King





- 45 years since you first played it
- You remember every word
- You know the next track before it plays
- That's the way the human brain works
- Nuggets of information stitched together



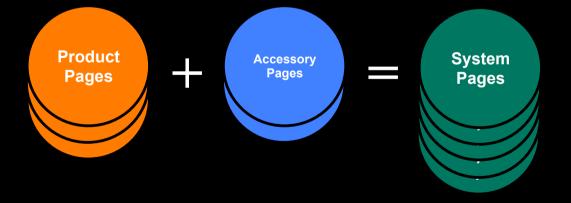






www. Green Building Encyclopaedia.uk









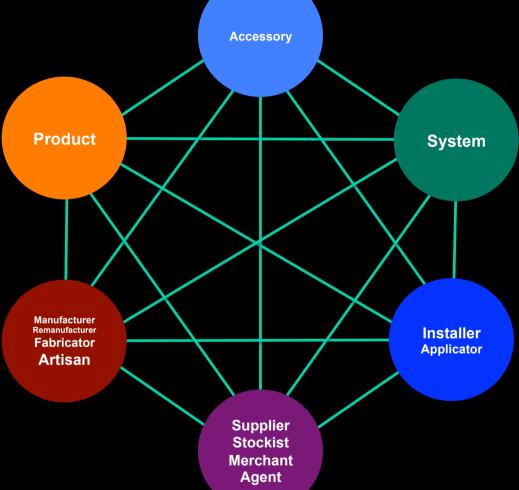
Inter-

visibility



This project has received European Regoral Development Funding Union Will Hillies Or 8s. INTERREG IVB

Cycle Assessment Procedure for Eco-impacts of Materials





GBE 6 Core Pages

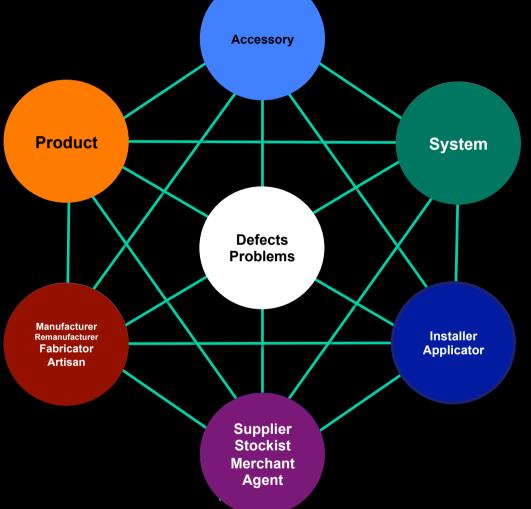






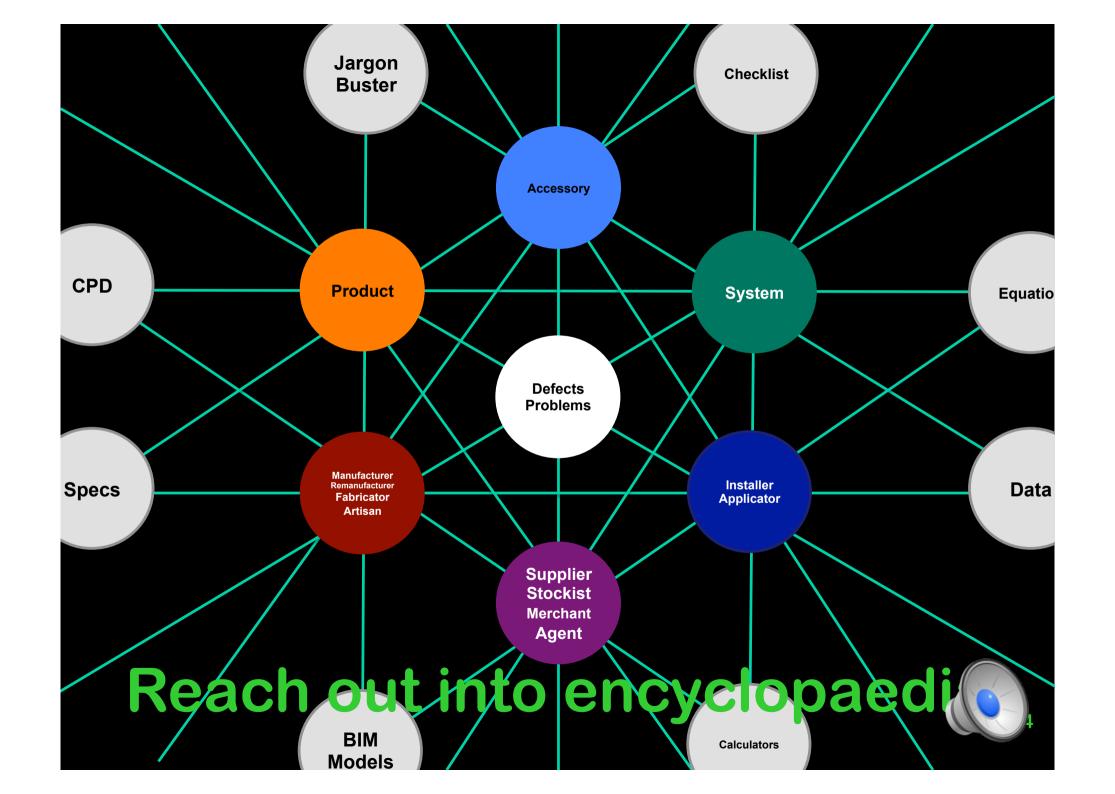
This project has received European Regional through INTERREG IV B.

Cycle Assessment Procedure for Eco-impacts of Materials



GBE 6 Core Pages







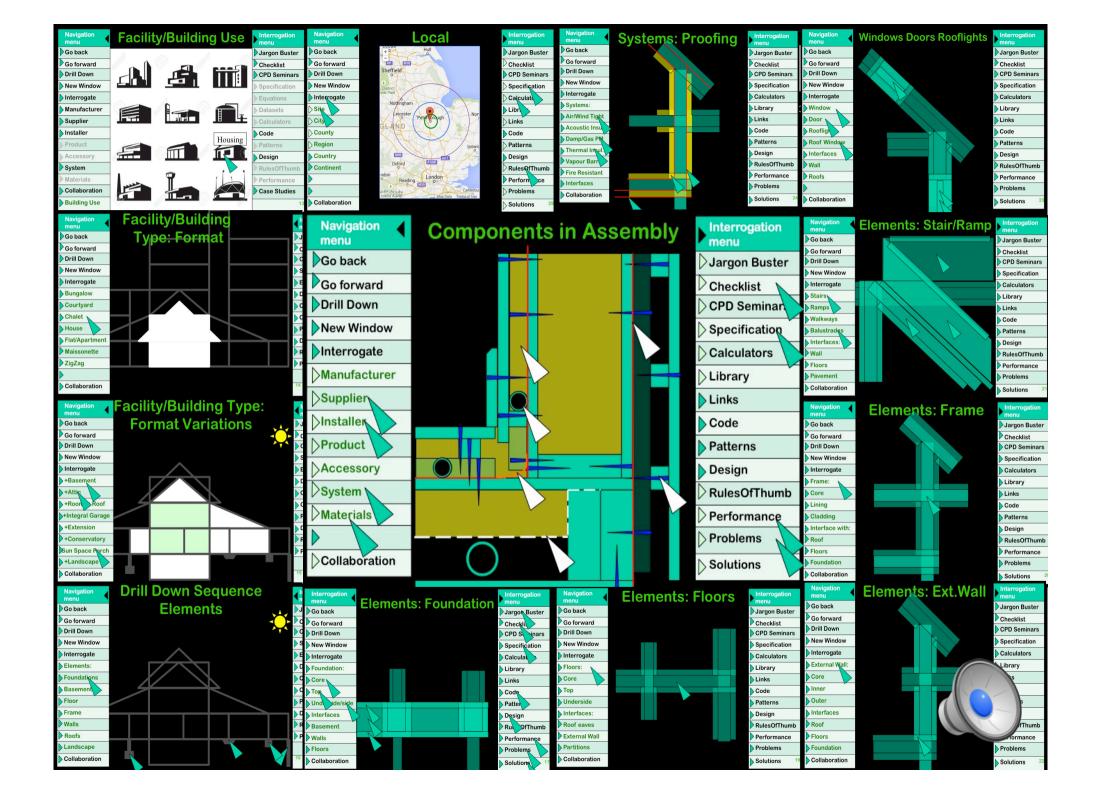






GBE 2D View into GBE Encyclopaedia





Navigation menu

Facility/Building Use

Interrogation menu

- Go back
- Go forward
- Drill Down
- New Window
- Interrogate
- **Manufacturer**
- Supplier
- **Installer**
- Product
- Accessory
- System
- Materials
- **Collaboration**
- **Building Use**

















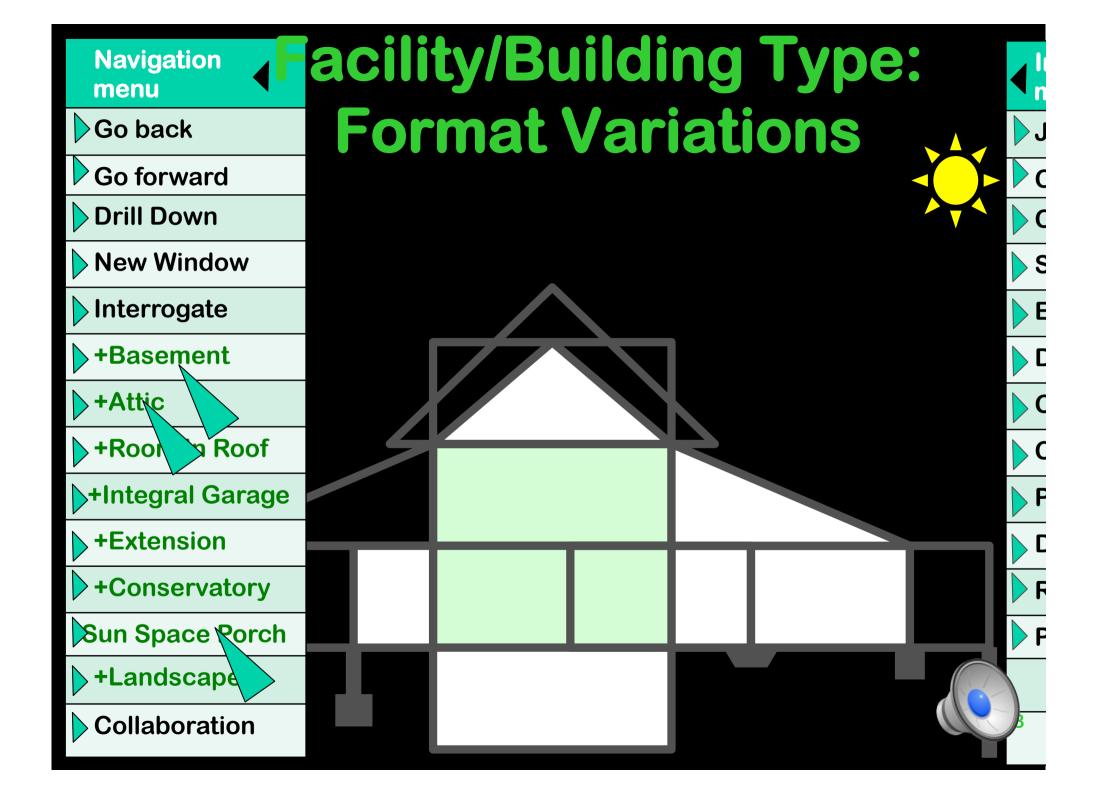


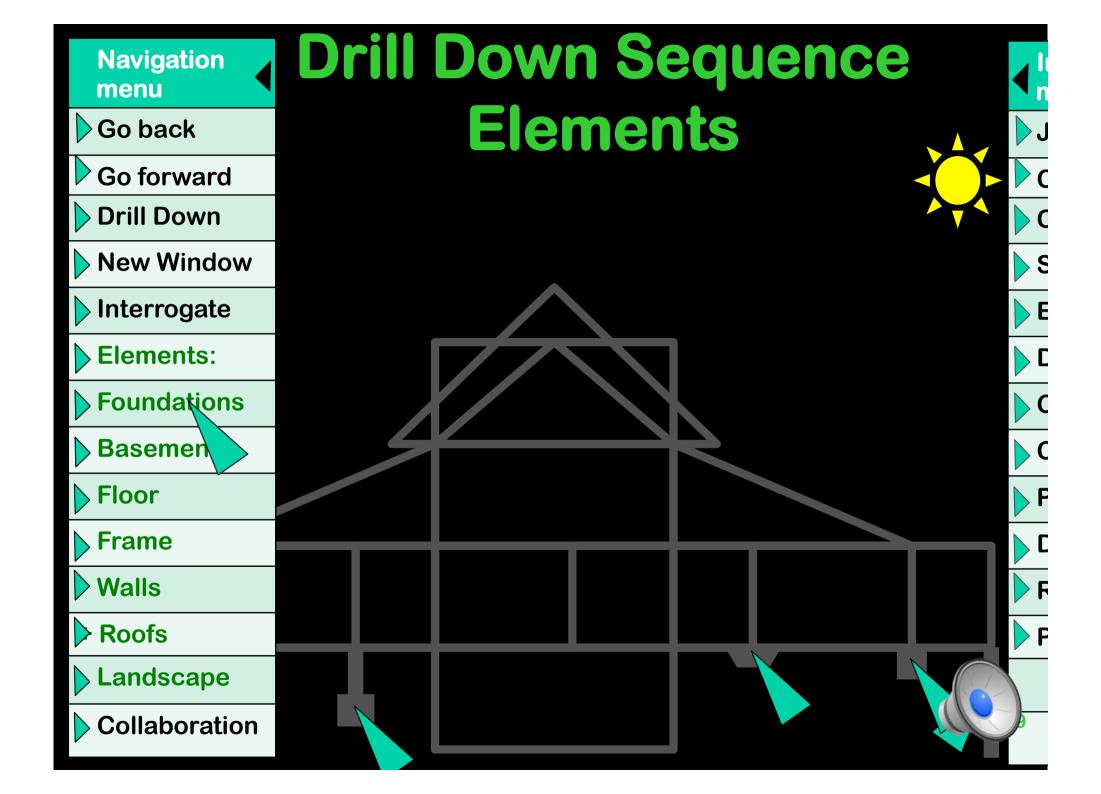


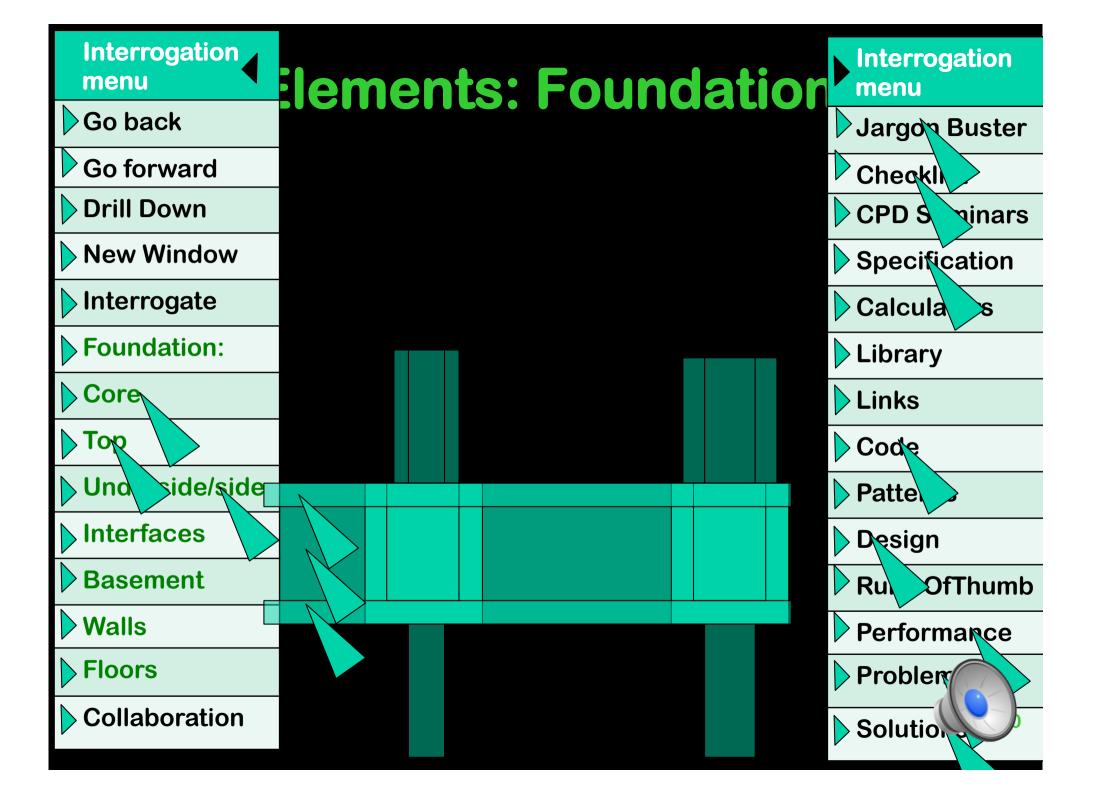


- Jargon Buster
- Checklist
- CPD Seminars
- **Specification**
- **Equations**
- **Datasets**
- Calculators
- Code
- **Patterns**
- Design
- RulesOfThumb
- Performance

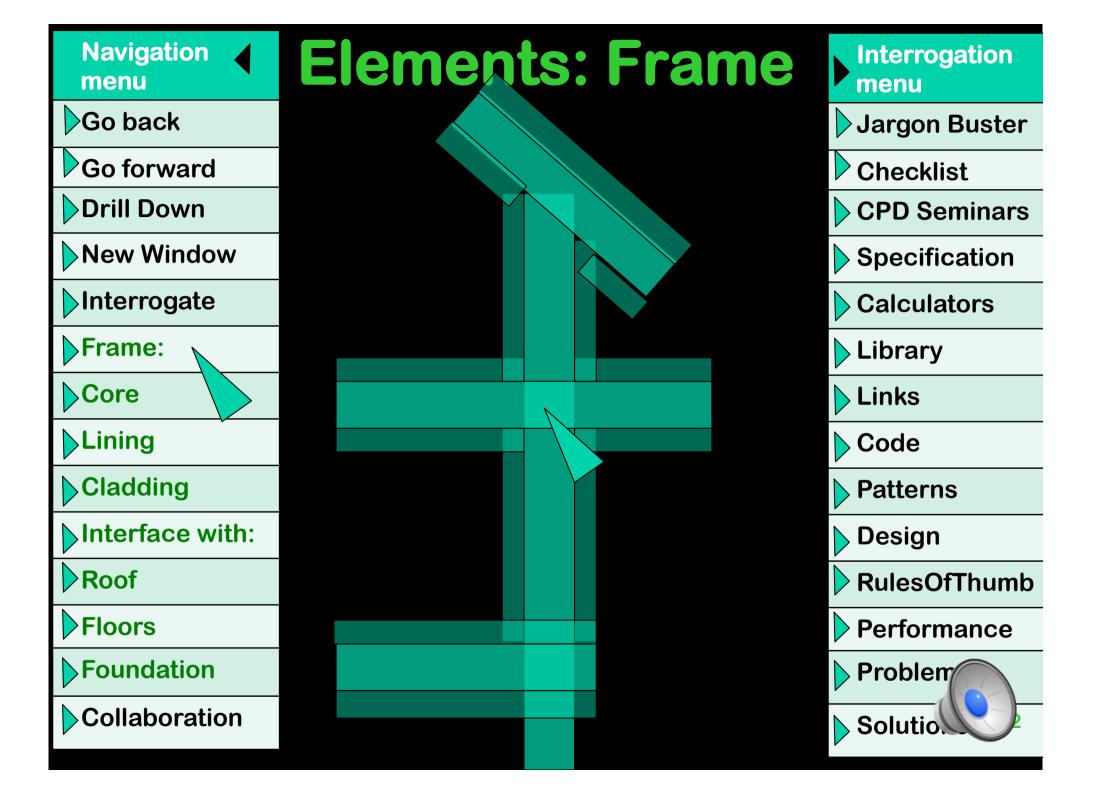


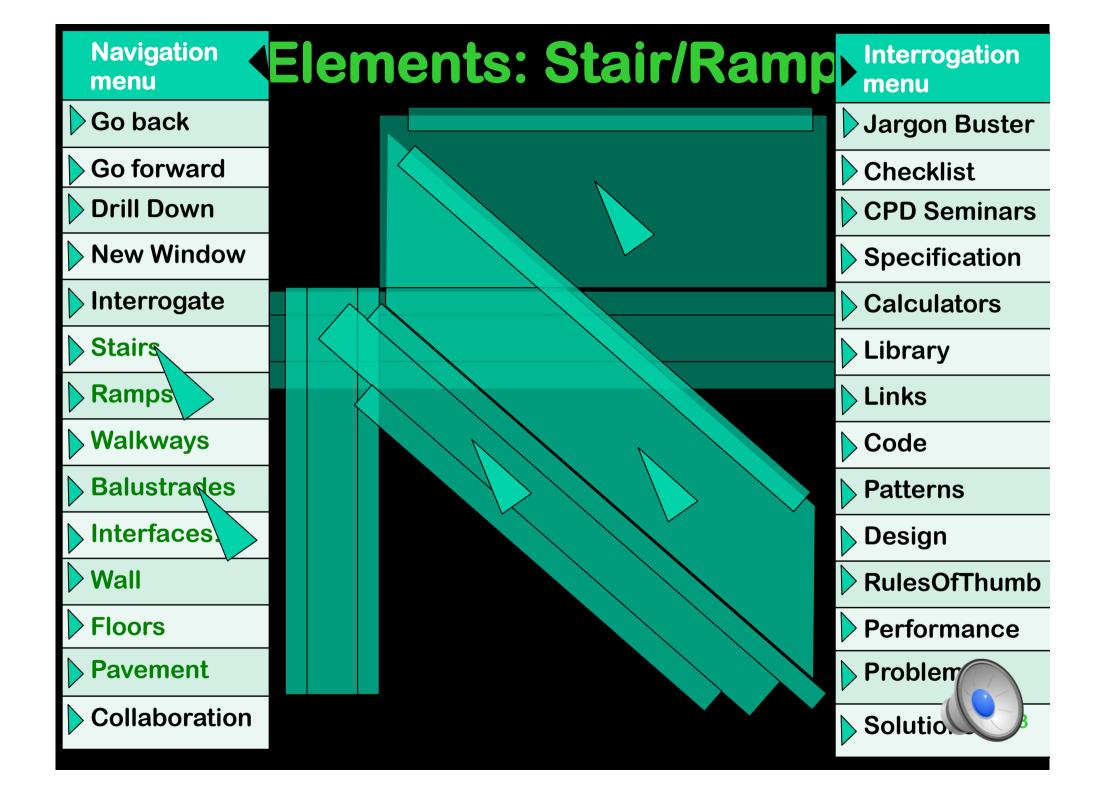






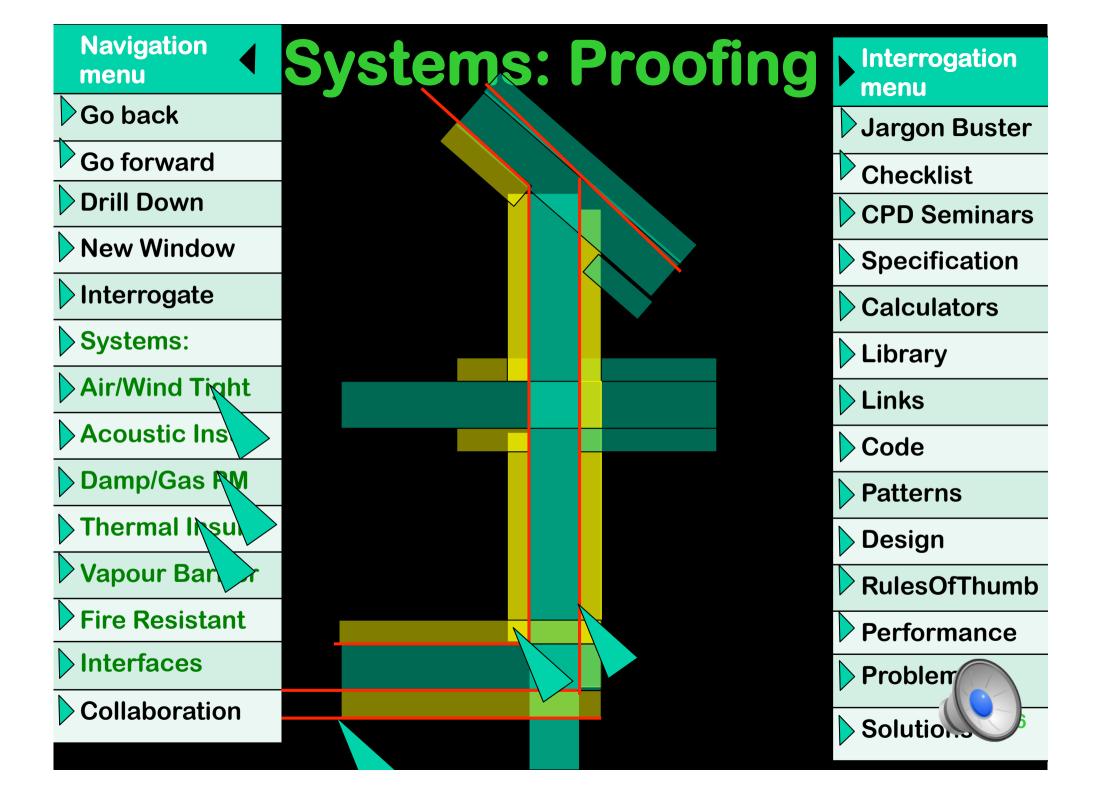
Navigation Elements: Floors Interrogation menu menu Go back Jargon Buster Go forward Checklist Drill Down **CPD Seminars New Window** Specification Interrogate **Calculators** Floors: Library Core Links Top Code Underside **Patterns** Interfaces: **Design Roof eaves** RulesOfThumb **External Wall** Performance **Partitions** Problem Collaboration **Solutio**

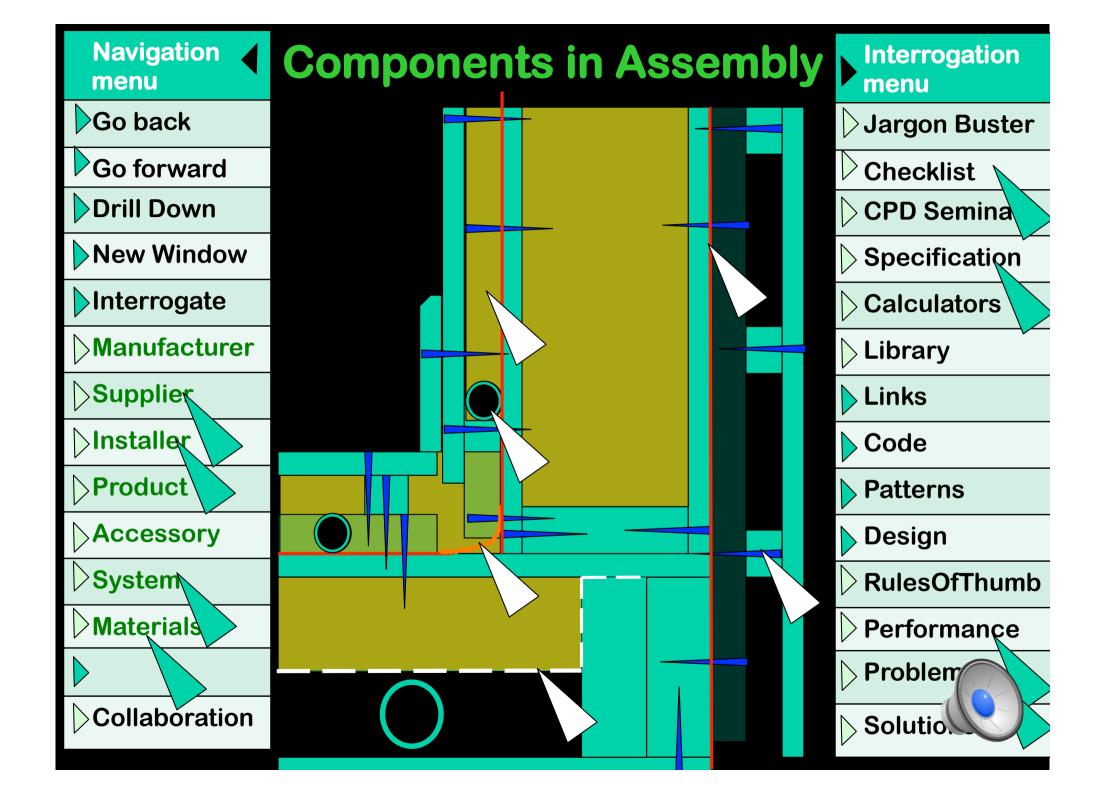




Elements: Ext.Wall International Menu **Navigation** Interrogation menu Go back Jargon Buster Go forward Checklist Drill Down **CPD Seminars New Window** Specification Interrogate **Calculators** External Wall: Library Core Links Code Inner Outer **Patterns Interfaces Design** Roof RulesOfThumb **Floors** Performance **Foundation** Problem Collaboration **Solutio**

Windows Doors Rooflights Internation **Navigation** Interrogation menu Go back Jargon Buster Go forward Checklist **Drill Down CPD Seminars New Window** Specification Interrogate **Calculators** Window Library Door Links Rooflig Code **Roof Window Patterns Interfaces Design** Wall RulesOfThumb Roofs Performance Problem Collaboration **Solutio**





Navigation menu Go back Go forward **Drill Down New Window** Interrogate Site Cit County Region **Country Continent** Collaboration

Local



- Interrogation menu
- Jargon Buster
- Checklist
- CPD Seminars
- **Specification**
- Calculat
- Libr
- Links
- Code
- **Patterns**
- Design
- RulesOfThumb
- Performace
- Problem
- **Solution**









Extracting Golden Nuggets



AECB	AECB	Forum
building knowledge		

Hello Brian Murphy Search Show unread posts since last visit. Show new replies to your posts. July 14, 2016, 11:45:12 AM Home Help Search Profile My Messages Calendar Members Logout AECB Forum Members: 5469 • Posts: 13279 • Topics: 3107 General Public Board Unread Posts = Last post by Kate de S 0 Posts Find the useful threads. Find the most pressing topics using a referenced index. in Re: MVHR in tower blocks 0 Topics on April 04, 2014, 10:49:03 AM Moderators: Tahir, Mark Siddall Child Boards: 0.0 Introduction _____, 1.0 Energy, Fossil Fuels and Carbon Emissions _____, 2.0 Building Design _____, 3.0 Building Services _____, 4.0 Materials And Construction Technology _____, 5.0 Refurb _____, 6.0 Land Use, External Works And Landscape . 7.0 AECB Standards / CarbonLite Accreditation . 8.0 Passivhaus . 9.0 Sustainability Rating and Benchmarking Systems . Appendix 1: Debate and Discussion . Appendix 2: Non-Technical Issues, Suggestions Box General Public Board Last post by Steve Ashton 3976 Posts Open to everyone in Hydrotherapy Tub in hous... 1197 Topics Moderators: Tahir, Kate de S on July 06, 2016, 10:46:49 PM Unread Posts = Announcements Noticeboard Last post by Ken Neal 160 Posts Post member and general eco-building news here. in fed up with the "debate" ... 89 Topics Moderators: Chris Lord-Smith, Tahir, Kate de S on March 06, 2015, 07:04:55 PM Last post by Julia Bennett 54 Posts in MOVED: Job Vacancy: Keen.. Moderators: Chris Lord-Smith, Tahir, Kate de S 41 Topics on July 02, 2014, 11:12:39 AM Last post by David OLIVIER 36 Posts materials and services to exchange in Offered POLISHED STONE S. 23 Topics on June 06, 2015, 04:02:10 PM Moderators: Chris Herring, Tahir Last post by Andrew Money 11 Posts Jobs and placements wanted or offered. Only viewable by logged on members. in Energy Consultant I Glas. 10 Topics Moderator: Chris Lord-Smith on November 10, 2015, 01:54:12 PM Last post by Lucy Pedler 256 Posts View and post events directly on the events page in main website menu. in Achieving Airtightness, 241 Topics Moderators: Chris Lord-Smith, Kate de S on April 04, 2016, 02:21:12 PM Last post by Admin 81 Posts Rules & help. Post ideas and feedback relating to the website and forum. in Re: Spam again 27 Topics on February 26, 2014, 10:38:15 PM Moderators: Tom Anderson, Nick Grant, Chris Herring, Tahir Last post by Emma Furniss 95 Posts Discuss Soapbox articles - AECB members share their personal views on a topic in Retrofitting - the Effec... 32 Topics on June 14, 2016, 02:04:22 PM Moderator: Tahir Technical Forums Unread Posts = Last post by Ken Neal 1940 Posts Strategic and detail, envelope and structure, rain and airtightness, thermal performance passive solar, cooling, daylighting, and acoustics. in Re: EWI using direct or . 270 Topics Moderators: Chris Herring, Peter Wilkinson, peter warm, Peter Wilkinson, Mark Siddall on March 31, 2016, 04:05:32 AM **Building Refurbishment and Retrofit** Last post by Helen Richards 658 Posts Strategic and detail for building refurbishment. Thermal envelope, moisture management, ventilation, and airtightness. in Re: External Wall insula... 116 Topics Moderators: Nick Grant, Andy Simmonds, Mark Siddall, Tim Martel on June 01, 2016, 09:52:08 AM Last post by Phil Bixby 590 Posts Discussion of building simulation using the CLP preferred modelling tool PHPP (and other equivalent software.) Viewable only to members. in Modelling performance of... 85 Topics Moderator: Mark Siddall on November 12, 2015, 08:21:24 AM **Building Services** Last post by Andy Palmer 1911 Posts Heating and vent, electrics and lighting, water management. in Re: Purge Ventilation in.. 290 Topics on March 22, 2016, 05:58:28 PM Moderators: Nick Grant, Mark Siddall Materials and products Last post by fostertom 994 Posts Including timber certification, paints, insulation, windows etc. in Re: Icynene - alternativ. 168 Topics Moderators: Chris Herring, Mark Siddall on February 03, 2016, 02:42:43 PM Landscape/habitat/ecology Last post by Andy Simmonds 86 Posts Green facades and roofs, surface water /SUDS sewage. in Re: Mad ideas for saving. 18 Topics Moderator: Nick Grant on February 22, 2012, 12:46:34 PM Resources Literature and resources Last post by Fahimeh Tatarestaghi 143 Posts Wanted/recommended/for sale. Books, papers, free info, websites, software etc. in iPHA database 40 Topics Moderators: Eric Parks, Mark Siddall on July 24, 2015, 05:20:32 AM







The AECB Forum

- is very informative,
- has been very popular
 - 71,962 views, 46 replies in 1 topic
 - Congratulations Mark Siddall: Psi values
- was a great way to share know-how;
 - And its static not a drip feed like SM
- was an invaluable part of the AECB offering
 - to its members and way beyond



Overtaken by Social Media

- AECB Forum's role has been overshadowed
 - -in the last 5-7 years
 - by the enormous success of social media platforms,
 - -which can play a similar role
 - but with continually added sophistication



-offer much more to users

Whist AECB Forum platform has become moribund

- · its content remains as valid as ever.
- By virtue of its format:
 - it is full of golden nuggets
 - buried in long strings of chatter
 - sometimes cyclical and often repetitive.
 - its many strands of discussion were not joined up or cross linked,
 - to the detriment of its users learning opportunities.





Hello Brian Murphy

Show unread posts since last visit. Show new replies to your posts. July 14, 2016, 12:11:59 PM

Search		Searc	h
--------	--	-------	---

Home Help Search Profile My Messages Calendar Members Logout

AECB Forum » Technical Forums » Building Design (Moderators: Chris Herring, Peter Wilkinson, peter warm, Peter Wilkinson, Mark Siddall)

NEW TOPIC NEW POLL NOTIFY MARK READ Pages: 1 2 [3] 4 5 ... 14

ges: 1 2	[3]45.	14		NEW FOLE NOTIFI	PIARK KEAD
		Subject / Started by	Replies / Views	Last post -	
	<u> </u>	PassivHaus Flat Warm Roof Started by Architype	1 Replies 2835 Views	March 10, 2012, 07:21:05 AM by Mark Siddall	fil
	0	Relative Resale Value of PH COMPANY Started by Toby Cambray	2 Replies 2316 Views	February 07, 2012, 07:03:35 PM by Nick Grant	協
	0	2012 consultation on changes to the Building Regulations in England: Section two 5 Started by Andy Simmonds	0 Replies 2774 Views	February 01, 2012, 11:25:34 AM by Andy Simmonds	fő
	0	Inadequate Ventialtion Started by Toby Cambray	7 Replies 4066 Views	January 20, 2012, 07:32:57 AM by Nick Grant	经
	0	Air Tightness at Flue Penetration COD Started by Peter Gunning	4 Replies 3131 Views	December 19, 2011, 05:33:23 PM by Peter Gunning	经
	0	Tricky airtightness detail Started by Mike Jacob	5 Replies 3165 Views	December 15, 2011, 02:19:49 PM by Ralph Perry Robinson	fö
	9	U-value calculations for windows and doors Started by Richard Partington	3 Replies 5483 Views	November 03, 2011, 10:13:30 AM by Nick Grant	经
	0	Unventilated cold flat roofs CD Started by Jim Miller Design Ltd	2 Replies 3644 Views	October 04, 2011, 11:36:23 AM by Nick Grant	经
	\Diamond	Ψ Values - Thermal Bridging 🚥 Started by Mark Siddall « 1 2 3 4 »	46 Replies 71962 Views	June 12, 2011, 10:34:47 AM by Dean Holway	包
	0	Airtightness of earth plaster Started by Dave Howorth	1 Replies 5879 Views	April 22, 2011, 08:03:11 AM by Nick Grant	file
	0	Rethinking Urban Design COD Started by Mark Siddall	4 Replies 3511 Views	March 18, 2011, 05:51:50 PM by Mark Siddall	经
	0	Code Level 4 / Passivhaus and local authorities Started by Phil Bixby	0 Replies 2235 Views	March 17, 2011, 05:14:51 PM by Phil Bixby	filo
	0	Accessible Threshold COD Started by Haydn Bennett	1 Replies 2757 Views	March 13, 2011, 11:08:32 PM by Chris Herring	经
	0	Risks of mixed performance Started by Mike Jacob	2 Replies 2282 Views	February 08, 2011, 10:04:47 PM by Mike Jacob	filo
	0	EWI, new porch and thermal bridging Started by Ishara	5 Replies 3540 Views	February 02, 2011, 10:58:10 AM by Paul Buckingham	经
	0	Using thermally massive elements as internal solar shading Started by Y Claire Jenkins	4 Replies 3456 Views	January 08, 2011, 03:43:34 PM by Christian Nialki	经
	0	Cube 6 Beam and Block floors for PassivHaus Cube 6 Beam and Block floors floor flo	0 Replies 2608 Views	January 06, 2011, 03:28:39 PM by Brill Phil	f8
	\Diamond	Basement escape well construction Started by Mark Bennett	9 Replies 5415 Views	November 26, 2010, 12:38:39 PM by Y Claire Jenkins	经
	0	Sauna in PHPP! CD Started by Roger Kelly	4 Replies 2845 Views	November 23, 2010, 07:51:58 PM by Roger Kelly	fő
	9	External insulation External insulation Started by Sophie Garner	4 Replies 3371 Views	November 13, 2010, 05:44:57 PM by J Ingram	经
ges: 1 2	[3] 4 5 .	14		NEW TOPIC NEW POLL NOTIFY	MARK READ

AECB Forum » Technical Forums » Building Design (Moderators: Chris Herring, Peter Wilkinson, peter warm, Peter Wilkinson, Mark Siddall)

Topic you have posted in

Locked Topic * Sticky Topic

Normal Topic

Poll

Hot Topic (More than 4 replies)

Very Hot Topic (More than 10 replies)

This GBE proposal is to:

- Determine the ambitions for 'the essence or nuggets',
 - AECB Gurus essential to decide what is valid
- Prepare briefing document and provide training:
 - to project team (AECB members?)
 - to know what to look for to save
 - how each will be used in the end
 - what to discard
- Copy the content out (into Word for example, it it possible?)
- Highlight the essence
- Strike out the chatter (track changes on)
- AECB Gurus & GBE check, confirm approach and catch loose ends
- team members filter files and accept or reject changes
 - Reformat for end uses







Capture the essence,

- Its 'golden nuggets'
- Convert them into the most appropriate formats:
 - Reference Documents/Bibliographies/Software tools
 - Reviews/critiques of parts
 - Checklist
 - By trade: avoid this, consider these, reclaim and reuse, etc.
 - Datasets, Equations, Calculators, Tools
 - Specifications:
 - Recipes, Materials, Products, Accessories, Systems
 - Elemental assemblies, junctions and details
 - Drawings,
 - Elemental assemblies, junctions and details
 - Outlines: Essence of a thing in Hierarchy
 - Etc. see more below





Hello Brian Murphy

Show unread posts since last visit. Show new replies to your posts. July 14, 2016, 12:14:36 PM

Search

Home Help Search Profile My Messages Calendar Members Logout

AECB Forum » Technical Forums » Building Design (Moderators: Chris Herring, Peter Wilkinson, peter warm, Peter Wilkinson, Mark Siddall) » 4 Values - Thermal Bridging

« previous next :

Pages: [1] 2 3 4

REPLY NOTIFY MARK UNREAD SEND THIS TOPIC PRINT

Author

Mark Siddall

Moderator

Posts: 1219

Topic: Ψ Values - Thermal Bridging (Read 71963 times)

N Ψ Values - Thermal Bridging « on: February 22, 2007, 11:57:58 AM »

□ Quote

Is anybody aware of any software that will assist with calculating Ψ Values /thermal bridges?

There's a whole raft of guidance, see below, but what is really needed is a simple user-friendly tool to assist the everyday designer, rather than just the researching building scientist. Furthermore, the U-value software I have come across does not assist with non-repeating thermal bridges it simply focuses upon an elemental repeating thermal bridge.

Guidance includes

EN ISO 9346 (1996) - Thermal insulation - Mass transfer - Physical quantities and definitions

EN ISO 10456 (1991) - Thermal insulation - Building materials and products - Determination of declared and design thermal values of the State of the

BRE IP 106 Assessing the effects of thermal bridging at junctions around openings

BS EN 1745: 2002: Masonry and masonry products. Methods for determining design thermal values (London: British Standards Institution) (2002

Mark

Report to moderator 3 Logged

David OLIVIER

AECBmember Posts: 797 <u>_</u> Q

Re: Ψ Values - Thermal Bridging

Re: Ψ Values - Thermal Bridging

« Reply #1 on: February 22, 2007, 02:37:18 PM »

Quote

Mark

Have you tried THERM? Free from the USA, thanks to their enlightened Dept of Energy (Lawrence Berkeley Laboratory, Univ of California).

I used to use FRAME - free from Canada (written by Enermodal Engineering for the govt.) - but may have been overtaken by THERM. Was very user-friendly though.

David.

Report to moderator > Logged

Mark Siddall Moderator Posts: 1219

« Reply #2 on: February 22, 2007, 06:06:00 PM »

Quote

I had a play with THERM a while back, very user friendly. I was surprised. The trouble with the software is that it does not calculate the Ψ Values/fRsi in accordance with ISO 10211, or any of the supporting, or related, documents. I contacted LBL about this that they gave the following response:

*First, we don't anticipate adding the ISO 10211 calculation to THERM in the near future (i.e., the next few years), but I will add it to our features list.

esn't report the annumbers directly, THERM can be used to perform the simulations to calculate these numbers. For the linear thermal transmittance (psi value), you need to perform 2 separate simulations, gl zing system.

t all you need are temperatures are certain points."

I'm not sure how to use the data from the "2 separate simulations" to derive the 🛡 Values. I was, perhaps lazily, hoping for a European version. A point worth noting is that THERM is really designed for designing windows, as a result the library of materials is not so great.

I have investigated the range of software from Physibel (Bisco, Trisco etc.) but each package costs about £2-4.5k, which is a little steep for the use it would get. Physibel did work on Eurokobra (a digital atlas of therma have had close a look at this software as well and found that:

- . Though you can customise existing details to some extent it does not allow you to construct new details and then test them. This is a great limitation (this also relates to a number of the subsequent points.)
- · Many of the details offered by the software are more suited to domestic use than to larger developments.
- · A good number of the details are continental i.e. they rely upon concrete frame structures, whereas in the UK the predominant primary structure is steel frame.
- · We tend to find that many contractors prefer to over board secondary steel with cementicious board, or similar, rather than blockwork, again this is not accounted for in the database of details. No details for this available. Again this relates to the software not reflecting aspects of the UK construction industry.
- It is a shame that it does not calculate U values in accordance with BS EN ISO 6946 Building components and building elements (noted in the User Manual).

(Oh, and by the way if you visit the Eurokobra website, the BRE doesn't distribute the software anymore, EURISOL the insulation trade organisation may still do so but last I heard it cost £250, which means, to my mind at least, it isn't







www.GreenBuildingEncyclopaedia.uk

Paul Teather

Re: N50 Air Tightness Specification

« Reply #11 on: July 15, 2009, 12:39:31 PM »

" Quote

Posts: 15 🚇 🚱 🖵

Alan, you have saved me a posting!

So, some calulations:

Consider the most common type of build in recent years - a 60m2 floor area flat (This also applies to a bungalow)

The shape of a building, for a given floor area will vary considerably but if we look at a simple 6mx10m shape:

Surface Area = 196.8m2

Calculat

the permeability is q50 = 10 m3/h/m2

Then air change n50 = 13.67 1/n

Difference 36.7% under-estimation of air leakage

Review?

As SAP now uses permeability instead of air changes this result in huge errors in heat loss calculations (Typical ventilation heat loss for homes is around 35-45% and can be significanlty higher for flats (I have seen up to 70% on well insualated, whole house ventilation flats at q50=10).

I have challenged BRE but they refuse to correct the error.

Spec?

One reason given is that Air tightness testers only record permeability. This is in fact incorrect (I speak as a qualified air tightness tester) and all domestic air tighness certificates should have both permeability and air change rates.

Checkis also add to Alan's assertion that the majority of the building fabric is air tight - it is joints and services that cause most problems (along with cavities and services that cause most problems (along with cavities and services that cause most problems (along with cavities and services that cause most problems (along with cavities and services that cause most problems (along with cavities and services that cause most problems (along with cavities and services that cause most problems (along with cavities and services that cause most problems (along with cavities and services that cause most problems (along with cavities and services that cause most problems)

« Last Edit: July 15, 2009, 12:42:31 PM by Paul Teather »

Report to moderator Logged

ages: [1]

UNNOTIFY

MARK UNREAD

SEND THIS



16/07/16







Encyclopaedia Know-how Information	Design Principles Code & Patterns Rules of Thumb	Products Materials Accessories	Solution Providers:	Services to manufacturers Suppliers & Installers	News, Blogs Events & Diary
CPD Seminars	Jargon Buster	Methods of Construction Systems	Manufacturers & Suppliers	Consultancy	Links
Specification	Sustainability Checklists	Systems, Elements & Whole buildings	Applicators & Installers	Disciplines	Video & Images
Calculators	Defects & Solutions	Websites & Databases	About GBE	Project Case Studies	Feedback



Deliver them using website technology

- Join-up all the related information from all relevant Forum discussions
- Links in both directions
- to be as accessible and useful as possible

(GBE Neural network)





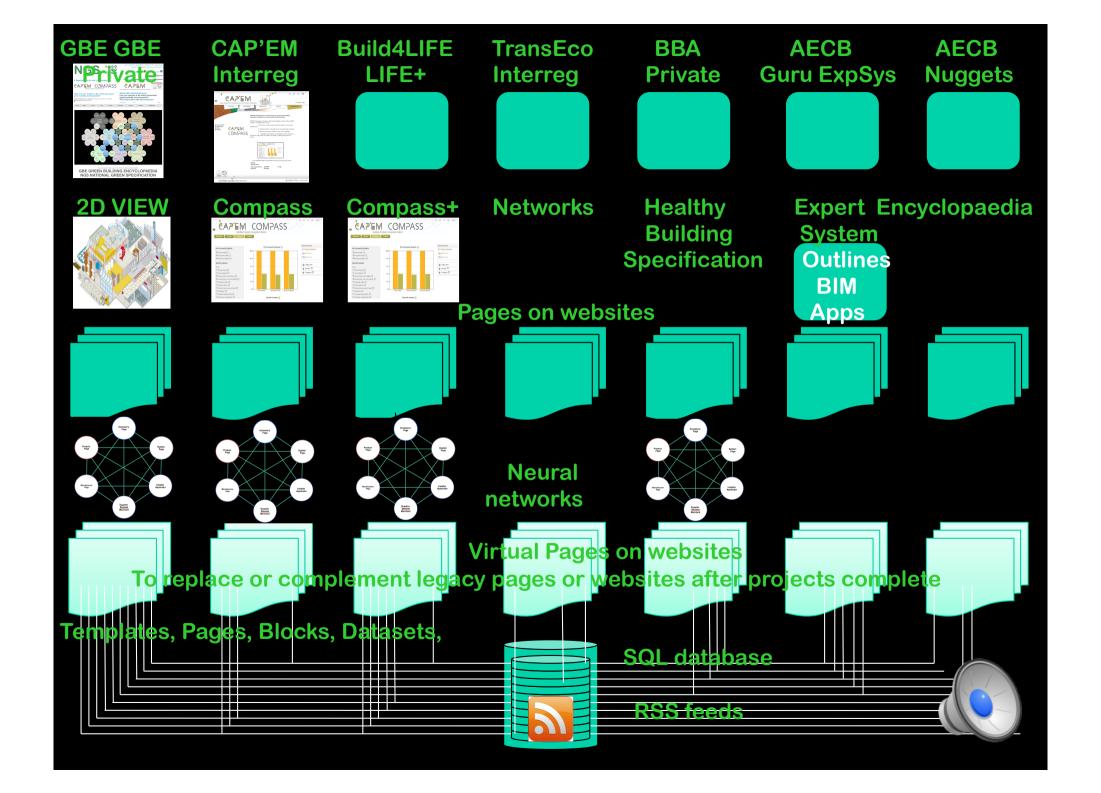




Make available to AECB

- To members and
- the public at large.
- Via GBE, AECB website(s)
- or both linked up using RSS technology











Who does what?

- The process of assimilating this information
- Could and should be a joint effort between
- AECB members and GBE in close liaison throughout.
- Shared: spread nuggets between many, if little funding
- Carried out by AECB members
- Checked by GBE if fully funded
- Building Website/parts/linking GBE happy
 16/07/16 take on when funded









Capture the know-how of AECB Gurus before it is lost forever.



Who are the Gurus?

- People like:
- David and his numbers and number crunching
- Mark e.g. Psi and Thermal Bypass
- Paul e.g. Airtightness
- Recent Graduates with Dissertations, Masters or PhDs on focused subjects







Priorities:

- Oldest first
- Younger will do this with their own know-how during their career, I hope











Process

- Work with the Gurus to determine what could be useful to others in their absence
- With AECB agreement.
- Record their knowledge and know-how turn it into:







Know where

- Sources of data or knowledge
- Bibliography with links to PDFs or online shops









Know-how

- How to use and apply the data in detail
- Method statements detailed enough to follow
- Procedures to get best results











Knowledge

- Pages of illustrated text
- By the GURUs or assisted by writers/editors
- Builds to Encyclopaedia
- Extracts from magazine back copies (Proposal 3?)









Issue papers:

- Take one Issue
- Download brain(s)
- Organise into subtopics to become pages
- Make into web pages and hyperlink like a daisy chain
- Cross link with other Issue daisy chairs

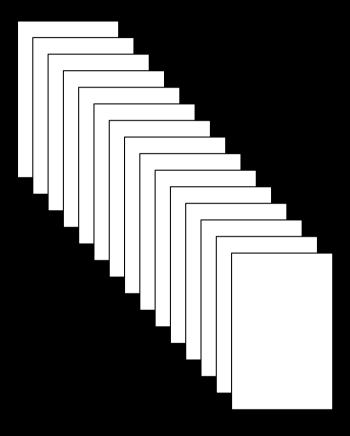






www.GreenBuildingEncyclopaedia.uk

Issue Paper Diagram



Issue Index

Issue

Introductio

Issue Page

Issue Subtopí

Issue Subtopi c 196

Issue Paper

> Issue Subtopi

Issue
Subtopi
c 19#

Issue Content

& Subtopic

Issue Subtopi

Issue Subtopi c 198

Issue
Hyper
link
table

Issue
Executiv
e
Summar

Issue
Subtopic
4

Issue Revision table

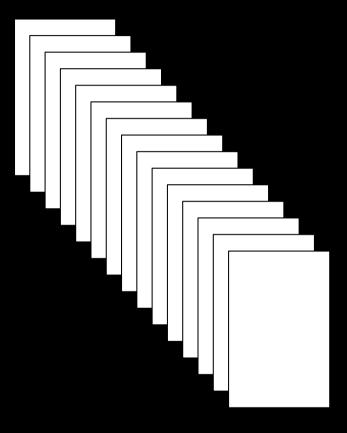




This project has received European Regional Principles (Principles) (P

www.GreenBuildingEncyclopaedia.uk

Issue Paper Diagram



Jargo n Buste r

Issue
Introductio

Solution Provider s Checklis t Refurb

Issue Subtopi

Manufacture
rs
Suppliers
Installers
Servers

Checklis t New Build

Issue Suhtopi

Products
Accessories
Systems

CPD Links

7

Issue
Subtopi
c 3

Issue
Subtopic
4

Case Studies

Evidence Based Case Studies Information Sources





www.GreenBuildingEncyclopaedia.uk





Know-how

- Data sets of materials, properties
- Equations to interrogate data sets to make calculators
- Calculators to become Apps (for BIM for example)
- Multiples to create modelling tools









Expert Systems:

- Capture their analytical thought processes
- Materials and methods Hierarchical Outlines of their essence (Weatherboarding example)
- Develop expert-system to allow others to experience them and learn from them
- Convert as much as possible into design and decisions tools



- □ H21 → TIMBER-WEATHERBOARDING ¶
- □ OUTLINE:¶
- ◆ Performance requirements ¶

 - Weatherboarding
 - □ Exclude wind driven rain ¶
 - Ventilation through space behind weatherboarding
 - Drainage through space behind weatherboarding
 - ♣ Rainscreen ¶
 - Permit limited rain passage but drain out at base¶
 - Pressure equalisation though open joints¶
 - Ventilation tough space behind rainscreen ¶

 - ♣ Fire performance ¶
 - ─ Fire resistance at site boundaries
 ¶
 - □ Low spread of flame in escape routes ¶
 - □ Combustibility¶
 - Design life & Durability

 - 30 years treated softwood ¶
 - 40 years durable hardwood¶
 - ♠ Maintain good appearance
 ¶
 - ─ Fade to grey/silver
 ¶

 - Avoid rainwater splash staining/fading ¶
 - Require redecoration at intervals ¶
 - ♣ Maintenance
 ¶
 - None¶
 - ─ Frequent and predictable
 ¶
 - □ Replacement after design life¶
 - □ Damage at low level¶
 - Rain splash discolouration¶
 - Trapped contact water damage ¶
 - ─ Persistent gutter overspill?¶
 - ♣ Security
 ¶
 - □ Prevent removal of screen ¶
 - □ Prevent entry into building ¶
 - ─ Flora and Fauna exclusion or inclusion
 ¶
- Exposure Conditions & Fire characteristics
 - ♣ Hazard Class:
 ¶
 - ♣ Hazard class 3: Above ground, not covered ¶
 - ♣ Timber of durability class 1 2 or 3
 ¶



SELECTION CHART SCI

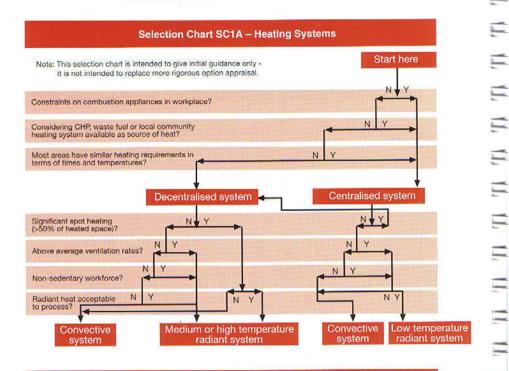
-

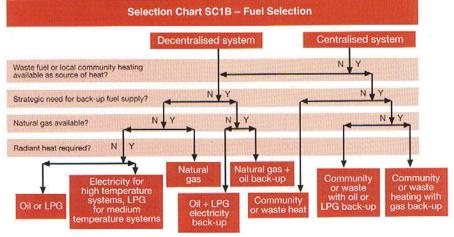
-

-

-

ANTINES.







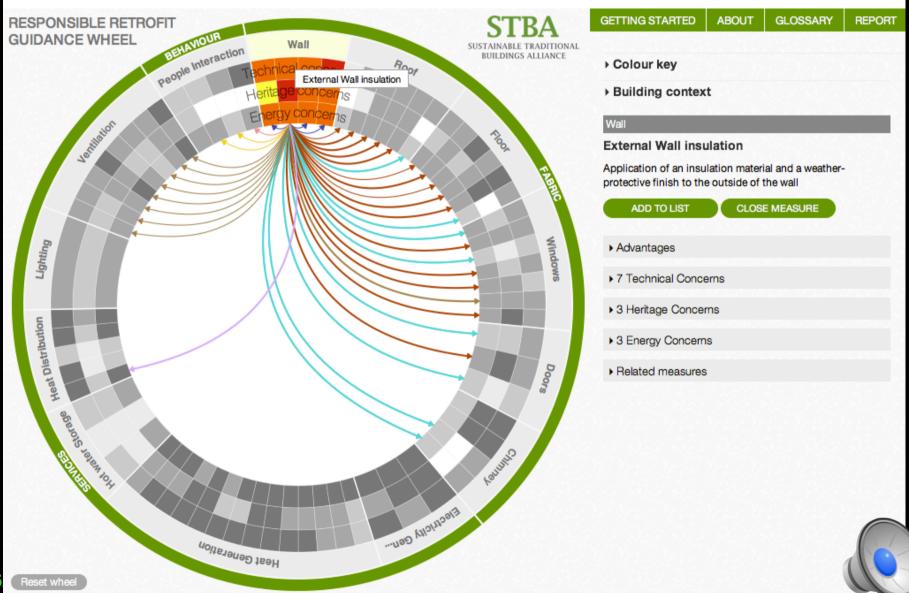


Type search here .

All Categories







GBE would welcome the opportunity to work with AECB to:

- extract the essence of the Forum,
- capture its Guru knowledge and
- what it's individual members do and
- make it readily available to all of it's members and to a wider audience.

The process of assimilating this information

- would be a joint effort
- between AECB members
- Expert system authors
- (up skill AECB members?)
- GBE in close liaison throughout.



Why would anybody want to do this?

- A chance to work with Gurus
- A learning opportunity
- Potential for specialisation
- Specialist careers awaiting
- A Guru's Mini me



Who would want to do this? Somebody:

- With an inquisitive mind
- that wants to develop Apps
- who needs to know a Guru's know-how
- who want to be the Guru's
 mini-me

All contributors

- Of know-how, time or funding
- Acknowledged on each page or text block footer
- Along with © Establishment
- © AECB Ian Cooper 2017; Funding: Indigogo Crowdfund 50% AECB 50%
- Linked to individual or company pages;
- In turn linked to all contributed pages









Costs

- relate to time to carryout tasks
- all need to be paid to do this
 - -or no incentive









Total costs? Nuggets

- How long is a piece of string?
- We don't know
- There are lots of pieces of string
- All different lengths
- Some surplus to requirements
- We have not tried to unraveled them yet
- We can do trial runs:
 - unraveling and trimming
 - tying knots to link them back up
 - and do a pro rata budget



16/07/16







Total costs? Gurus

- Until you get inside their brains
- How will you ever know?
- Until they have downloaded their brains
- You wont know what your have to deal with
- This could be a long continuing process
- Get it out first, organise it later









Income

- from sale of:
 - -Files: data sets, tools, apps
 - -CPD, Specification, outlines calculators
 - -Membership (then files free)
 - -Pages occupied by paying guests



Income apportioned as appropriate:

- overhead costs to hosting website
- income for time or know-how contributors
- repay AECB to cover development costs
- if not funded by other means









How paid for?

- Crowd funders view:
- Green Building Encyclopaedia
 - Oh yes our people would be very interested in that
- 2D or 3D interface to Encyclopaedia
 - Yes please, even better
- But 30% is expected to come from the project team's contacts
 - Concerted email and SM campaign
 - Each of us can contribute small sums to show a desire or need
 - To encourage the crowd funders to put in large sums
- £2800+VAT to get crowd fund campaign underway
- Seek £100,000 to get it started and hope for much more









Crowd Funder's Perks

- Names and donations listed (anonymously if preferred)
- Names in paid-for (chosen) page groups, page or block footers
- Free membership (life time or one year)
 - Free file downloads (during membership)
- New tools developed sooner
 - Use of tools











- © Green Building Encyclopaedia
- Brian Murphy BSc Dip Arch (Hons+Dist)
- 10th June 2016 16th July 2016











© GBE 2016

- Brian Murphy BSc Dip Arch (Hons+Dist)
 - Architect by Training
 - Specification Writer by Choice
 - Environmentalist by Actions
- Greening up my act since 1999
- Founded National Green Specification 2001
- Launched GreenSpec website 2003
- Created: GBE at www.greenbuildingencyclopaedia.uk 2015
- E BrianSpecMan@aol.com
- Twitter: http://twitter.com/brianspecman
- Facebook: http://www.facebook.com/brianspecman
- LinkedIN:
- Created: 13/07/16-14/07/16
- Presented to AECB Annual Conference 16/07/16

