2012 Consultation on Changes to the Building Regulations in Wales Part L (Conservation of fuel and power)

Consultation – summary of responses

Part 2

- #39 FITP Working party c-o Glass & Glazing Federation
- #40 Glass & Glazing Federation
- #42 CIOB Wales Cymru
- #45 Engineering Panels in Construction
- #46 Gwynedd Consultancy Building Control Gwynedd Council
- #48 Construction Products Association
- #49 Torfaen County Borough Council
- #50 Wales Low Zero Carbon Hub
- **#51 FGMA (Flat Glass Manufacturers Association)**
- #54 David Jones
- #56 ECA
- #57 Kingspan Insulation Limited
- #60 Council for Aluminium in Building
- #61 British Board of Agrement
- #62 Mineral Products Association
- #64 Rockwool Ltd
- #66 BEAMA
- #68 Coed Cymru
- #71 British Glass Manufacturers' Confederation

2012 consultation on changes to the

Building Regulations in Wales

WER Scheme operators Group

Competent persons scheme operators British Glass Manufacturing Confederation

Par	t L (Conserv	vation of fuel and power)	
	sultation ponse Form	Your name: Giles Willson	
		Organisation (if applicable): FITP working party c/o Glass & Glazing Federation	
(i)		s expressed on this consultation an official response to you represent or your own personal views?	from the
	Organisational	al X Personal Views	
(ii)	•	ws expressed on this consultation in connection with group? If yes please state name of group:	your membership
	Yes X No		
	Name of group	p:	
		Industry Thermal Performance (FITP) Working Group. FITP ne views of the following industry trade associations:	
		azing Federation	
	British Plastics	Inufacturers Association	
		dworking Federation	
	Steel Window		
	National Fede	eration of Glaziers	
	Composite Do	Ooor Manufacturers Association	

(iii) Please tick the one box that best describes your organisation:

Builders/Developers:		Property Management:	
Builder / Main contractor: Builder / Small builder:		Housing association (registered social landlord)	
(extensions/repairs/maintenance	, etc)	Residential landlord, private sector	
Installer/ special sub-contractor Commercial developer		Commercial	
House builder		Public sector	
Building occupier:		Building Control Bodies:	
Home owner		Local authority building control	
Tenant (residential)		Approved Inspector	
Commercial Building			
Energy Sector		Fire and Rescue Authority	

Designers/Engineers/Surveyors:	Specific Interest:	
Architect Civil/Structural engineer Building services engineer Surveyor	Competent person scheme operator National representative or trade body Professional body or institution Research/ academic organisation	
Manufacturer/ Supply Chain	Other (please specify)	
(iv) Please tick the one box which best des business? Micro – typically 0 to 9 full-time or equivaled Small – typically 10 to 49 full-time or equivaled Medium – typically 50 to 249 full-time or equivaled Large – typically 250+ full-time or equivaled None of the above (please specify) Membor by FITP range from micro-enterprise	ralent employees quivalent employees ent employees ers of associations represented	
Yes X No Name of scheme: One of the FITP member organisations is the Competent Persons Scheme Operators, representing FENISA, RSI and CERTASS		

(vii)	Would you be happy for us to contact you again in relation to this consultation?
	Yes x No
protections of the protection	will process any personal information that you provide us with in accordance with the data ction principles in the Data Protection Act 1998. In particular, we shall protect all responses ining personal information by means of all appropriate technical security measures and the that they are only accessible to those with an operational need to see them. You should, ever, be aware that as a public body, the Welsh Government is subject to the requirements of reedom of Information Act 2000, and may receive requests for all responses to this altation. If such requests are received we shall take all steps to anonymise responses that we use, by stripping them of the specifically personal data – name and e-mail address – you by in responding to this consultation. If, however, you consider that any of the responses that rovide to this survey would be likely to identify you irrespective of the removal of your overtional data, then we should be grateful if you would indicate that, and the likely reasons, in your onse, for example in the relevant comments box.
Que	estions:
New	homes
1.	Do you agree with the Government's preference for a CO ₂ saving of 40% reduction in carbon dioxide emissions compared to Part L 2010.
	No change to 2010
	40% CO ₂ saving
	25% CO ₂ saving
	Something else (please explain below)
	Don't know
	Comments
	40% preferred, so as to avoid a more dramatic change when zero carbon standards are introduced in future revisions.
2.	Do you agree with the proposal for an 'aggregate' approach to CO ₂ target setting for new homes in 2015? The CO ₂ target for any individual dwelling varies depending on the ease with which the building can achieve the target, with the overall required CO ₂ saving achieved when aggregated over the build mix.

Don't know

The specifications are available with current technology.	
n approaching the selection of the amount of PV to be installed	on dwellings do
refer?	on aweilings, ao
ixed percentage of building foundation area	
ixed percentage of building foundation area	X
Proportion of gross internal floor area with a practical cap	
Oon't know	
Comments	
Because roof area (where the PVs are most likely to be placed	d) will
be similar to foundation area.	
o you agree that the limits on design flexibility 'backstop' value	os for fabric alomo
omes should be changed from the current reasonable provisio	
become mandatory?	
es No Don't know	
Comments	
The current system, in which the backstop values are regarded	d as
"reasonable provision", works satisfactorily.	
o you agree with the changes to the 'backstop' values propose	

It seems reasonable for them to be improved in line with other improving
standards for new build. However, some FITP members feel the proposed
value of 1.6 for windows and doors was too severe, and prefer an interim

9. Do you have any other comments on the proposed changes to Approved Document L1A or the domestic National Calculation Methodology? Please make it clear which issue each comment relates to by identifying the relevant paragraph number.

Comments

so we cannot comment.

We note that in the proposals there is no intention to have a Target Fabric Efficiency Level, as is proposed for the revisions to the England Part L. While this does not directly impact on our industry, we draw your attention to the fact that housebuilders and designers will inevitably have to deal with different ways of demonstrating compliance in these two parts of the UK. This adds to the general regulatory and administrative burden on companies, to no advantage or benefit to anyone.

10.	The Impact Assessment makes a number of assumptions on fabric/services/ renewables costs, new build rates, phase-in rates, learning rates, etc for new homes. Do you think these assumptions are fair and reasonable? Please justify your views.
	Yes No Don't know X
	Comments
	Windows and glazing not referenced or costed in isolation in the IA, so we cannot comment.
11.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for new homes? Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know X
	Comments
	Windows and glazing not referenced or costed in isolation in the IA

		•				
energy efficie	ncy separate	posal for 2013 By from low ca on (PEC)? Do	rbon technol	logies througi	n the asse	ssment of
Yes	No X	Don't know				
Comments						
introduction of	of the PEC c	our comments riterion creates nsurate benefit	s burdens or		nd	
Which packag	-	nd services sh	ould be sele	ected: 7% or 1	0%? Plea	ise give rea
7%						
10%					X	
Don't know						
Comments						
without rene important to minimise the so that the b habitable in	wables (table maximise the reliance on uilding remathe event of	n which achieve 3.3 in the Coe savings through energy supply ins energy-effithe energy supon or lack of mental coe series and the energy supply the energy supply s	nsultation Dough the build (whether recient, comfouply system)	ocument). It ling fabric, an newable or no rtable and under-perforn	ot),	
TEŘ?	ee any partic	ular issues for Don't know	certain cate	gories of build	ding to me	et the TPE

Not qualified to comment	
Tvot qualified to comment	
Which approach should be utilized to incorporate the chnologies into the setting of the Target Emission buildings?	
Fixed carbon reduction (in kg.CO ₂ /m ² /year)	
Percentage of roof area of PV	
Other	
Don't know	
Please give reasons for your choice	
CO ₂ performance standards for new non-domestic	
CO ₂ performance standards for new non-domestic option do you prefer and why?	
CO ₂ performance standards for new non-domestic loption do you prefer and why? No change	
The proposals explain the Government's preference CO ₂ performance standards for new non-domestic loption do you prefer and why? No change Target A: 10% aggregate improvement (1% PV) Target B: 11% aggregate improvement (No PV)	
CO ₂ performance standards for new non-domestic loption do you prefer and why? No change Target A: 10% aggregate improvement (1% PV)	ouildings from October 2013.
CO ₂ performance standards for new non-domestic loption do you prefer and why? No change Target A: 10% aggregate improvement (1% PV) Target B: 11% aggregate improvement (No PV) Target C: 20% aggregate improvement (5% PV)	ouildings from October 2013.
CO ₂ performance standards for new non-domestic loption do you prefer and why? No change Target A: 10% aggregate improvement (1% PV) Target B: 11% aggregate improvement (No PV)	ouildings from October 2013.

17.	Do the proposed 2013 notional buildings as set out in the changes to the National Calculation Methodology seem like a reasonable basis for standards setting? Please provide comments on the method used to develop the notional buildings and particular elements of one or more of the notional buildings, if relevant.
	Yes X No Don't know
	Comments
18.	Do you think that a further recipe should be created for buildings under 250m² and aligned with the proposed domestic recipe? Are there particular reasons why smaller buildings find compliance with the non-domestic recipes difficult? Please justify your views.
	Yes No Don't know
	Comments
	Small non-dwellings are likely to be domestic in character and form of construction.
19.	Although we recognise that some buildings may need to be serviced in a particular way for legitimate functional or environmental reasons, should Part L incentivise a lower carbon servicing strategy (as with the current Energy Performance Certificate methodology), by basing the notional building on mixed-mode ventilation?
	Yes No Don't know X Comments
	Not qualified to comment
20.	Do you have any other comments on the proposed changes to Approved Document L2A or the non-domestic National Calculation Methodology? Please make it clear which issue each comment relates to by identifying the relevant paragraph number.
	Comments
	The comments we made in answer to Q9 and Q12 apply equally to the unilateral introduction of the BPEC criterion.

Planning should play no role. Building Regulations alone should determine the appropriate standards for energy efficiency in buildings. Please keep administrative procedures and hurdles to a

for new build (to simplify matters for those in the supply chain).

37.	The consultation explains that the regulatory requirement for conseq upon domestic extensions or increases in habitable space would be measures comprising a minimum standard of loft insulation, hot water and the installation of cavity wall insulation.	limited to a list of
	Do you agree with this list of measures?	
	Should this list be different (please explain below)?	X
	Another approach (please explain below)	
	Don't know	
	Comments	
	For non-domestic buildings, Part L already offers a range of consequential improvement options; the same principle should apply to dwellings, and replacement windows should be included in the list of	
38.	What effect do you think the requirements for consequential improve the demand for repair, maintenance and improvement activity? Pleas explain your answer.	•
	Increase demand	
	Reduce demand [
	No effect [
	Don't know	X
	Comments	
	Difficult to comment on this as the situation has not existed before – however, it will probably increase the consequential activity but marginally reduce the building of extensions. The consultation document makes no reference to replacement windows triggering consequential improvement. This is to be welcomed; if such a requirement were introduced, it would have a devastating effect on the replacement window industry.	
39.	Do you agree with the proposal to introduce consequential improvem or increases in habitable space in non-domestic buildings under 100 your view.	
	Yes X No Don't know	
	Comments	
	Anyway, it is a requirement of the recast Energy Performance of Buildings Directive.	

40.

The consultation proposes that for non-domestic building used to generate Green Deal assessments, the list in Serformance Certificate recommendations and the exist improvement measures from Approved Document L2B consequential improvement. Do you agree?	SBEM used to generate Energy sting list of typical consequential
Yes	X
No	
Prefer a different list (please specify)	
Don't know	
Comments	
Do you agree that there should not be major problems consequential improvements for the building control prowhat are they and how might these be addressed? Yes No X Don't know Comments	
Extra administration.	
Do you have any other comments on the proposed character paragraph number.	
Comments	

43.	Do you have any other comments on the proposed changes to Approved Document L2B? Please make it clear which issue each comment relates to by identifying the relevant paragraph number.				
	Comments				
	1. We note that the proposed standards for replacement windows in non-domestic buildings are different from those proposed for England. This will mean the window supply chain will have to manufacture, supply and install windows to different specifications either side of the border. This will add to industry and consumer costs. 2. We note there are no proposals related to curtain walling. We amplify this				
44.	Do you think that the Impact Assessment is a fair and reasonable assessment of the potential costs and benefits of raising the performance standards for replacement domestic windows and domestic/non-domestic extensions? Please justify your view and provide alternative evidence if necessary.				
	Yes No Don't know X				
	Comments				
	Windows and glazing are not costed in isolation in the IA, so we cannot comment.				
45.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for consequential improvements in existing homes? Please justify your view and provide alternative evidence if necessary.				
	Yes No Don't know X				
	Comments				
	Windows and glazing not costed in isolation in the IA, so we cannot				
46.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for consequential improvements in existing non-domestic buildings? Please justify your view and provide alternative evidence if necessary.				
	Yes No Don't know X				
	Comments				

Windows and glazing are not costed in isolation in the IA, so we cannot

comment

Compliance and Performance

47.	For new dwellings, Welsh Government is proposing to develop a compliance checklist. Do you think such a checklist would be used sufficiently to warrant its development?
	Yes No Don't know
	Comments
48.	If such a checklist was developed, what should it cover?
	Comments
	Windows and glazing have a major impact on the energy performance of dwellings, and should therefore be included.
49.	If the checklist was taken forward, who should be involved in its development? Comments
	FITP would be happy to be consulted on fenestration aspects.
50.	Would any other approach be likely to prove more effective instead (such as a PAS ¹ type approach).
	Yes No Don't know X
	Comments

¹ A PAS is a Publically Available Specification, and the PAS would set out a quality assurance approach.

Comments

#40 - Glass & Glazing Federation

2012 consultation on changes to the

Building Regulations in Wales

Part	L (Conserva	ation of fue	el and pow	er)	
	Consultation Response Form Your name: Giles Willson Organisation (if applicable): Glass & Glazing Federation				
(v)		•	or your own	tation an official response personal views?	e from the
(vii)	or support of a Yes X No Name of group: Glass and Glazi	ny group? If	yes please s	ultation in connection with state name of group:	n your membership
Builde Builde (exten Installe Comm	ers/Developers: r / Main contract r/ Small builder: sions/repairs/ma er/ special sub-c nercial developer	or: intenance, et ontractor	 	Property Management: Housing association (registered social landlord Residential landlord, private sector Commercial Public sector	

Building occupier: Home owner Tenant (residential)	Building Control Bodies: Local authority building control Approved Inspector
Commercial Building	
Energy Sector	Fire and Rescue Authority
Designers/Engineers/Surveyors:	Specific Interest:
Architect Civil/Structural engineer Building services engineer Surveyor	Competent person scheme operator National representative or trade body Professional body or institution Research/ academic organisation

WG will process any personal information that you provide us with in accordance with the data protection principles in the Data Protection Act 1998. In particular, we shall protect all responses containing personal information by means of all appropriate technical security measures and ensure that they are only accessible to those with an operational need to see them. You should, however, be aware that as a public body, the Welsh Government is subject to the requirements of the Freedom of Information Act 2000, and may receive requests for all responses to this

consultation. If such requests are received we shall take all steps to anonymise responses that we disclose, by stripping them of the specifically personal data - name and e-mail address - you supply in responding to this consultation. If, however, you consider that any of the responses that you provide to this survey would be likely to identify you irrespective of the removal of your overt personal data, then we should be grateful if you would indicate that, and the likely reasons, in your response, for example in the relevant comments box.

Questions:

new	nomes
1.	Do you agree with the Government's preference for a CO ₂ saving of 40% reduction in carbon dioxide emissions compared to Part L 2010.
	No change to 2010
	40% CO ₂ saving
	25% CO ₂ saving
	Something else (please explain below)
	Don't know
	Comments
	40% preferred, so as to avoid a more dramatic change when zero carbon standards are introduced in future revisions.
2.	Do you agree with the proposal for an 'aggregate' approach to CO ₂ target setting for new homes in 2015? The CO ₂ target for any individual dwelling varies depending on the ease with which the building can achieve the target, with the overall required CO ₂ saving achieved when aggregated over the build mix.
	Yes X No Don't know
	Comments
3.	Do you agree with the proposal for a compliant option based on a consistent recipe of elemental specifications for fabric, services plus an additional CO ₂ saving equivalent to an amount of photovoltaic (PV). Please justify your choice.
	Yes X No Don't know

Comments

the deman The perfor (generally) essential to	nd for energy mance of the maintenance o ensure the	n a "fabric first from any soun building fabri e-free. A high building rema le energy sup	ce (renewal c is permand standard of ins energy-e	ole or non-re ent, consist fabric perfe efficient and	enewable) ent and ormance is I comfortat	Sole	
which is app	propriate for the	veen the recip he heating sys or a separate f	stem type. B	y adopting	this approa	ach to dit	ferent
Yes X Comments	No	Don't know					
	savings propo e justify your o	sed, are the r choice.	ecipe specif	ications a s	ensible wa	ay of ach	ieving
Yes X	No	Don't know					
Comments							
The specif	ications are a	available with	current tech	nology.			

6.	In approaching the selection of the amount of PV to be installed on dwellings, do you prefer?
	Fixed percentage of building foundation area
	Proportion of gross internal floor area with a practical cap
	Don't know
	Comments
	Because roof area (where the PVs are most likely to be placed) will be similar to foundation area. We are firm believers in a "fabric first" approach, because this minimises the demand for energy from any source (renewable or non-renewable).
7.	Do you agree that the limits on design flexibility 'backstop' values for fabric elements in new homes should be changed from the current reasonable provision in the technical guidance to become mandatory?
	Yes No X Don't know
	Comments
	The current system, in which the backstop values are regarded as "reasonable provision", works satisfactorily.
8.	Do you agree with the changes to the 'backstop' values proposed? Please explain your decision.
	Yes X No Don't know Comments
	It seems reasonable for them to be improved in line with other improving standards for new build.

Windows and glazing not referenced or costed in isolation in the IA,

Comments

so we cannot comment.

New non-domestic buildings

energy efficiency sepa	proposal for 2013 for non-dom rately from low carbon technolon (PEC)? Does PEC seen	ogies through the	assessment of
Yes No X	Don't know		
Comments			
1	in our comments on Q9, we the C criterion creates burdens on mensurate benefit.		
Which package of fabr for your choice.	ic and services should be seled	cted: 7% or 10%?	Please give reasons
7%			
10%		X	
Don't know			
Comments			•
without renewables (to important to maximise minimise the reliance so that the building rehabitable in the event	otion which achieves 11% CO2 able 3.3 in the Consultation Doe the savings through the build on energy supply (whether remains energy-efficient, comfort of the energy supply system uption or lack of maintenance.	ocument). It is ing fabric, and to newable or not), table and	
Do you foresee any pa TER?	rticular issues for certain categ	pories of building to	o meet the TPEC or
Yes No No	Don't know X		
Comments			
Not qualified to comm	nent		

15.	Which approach should be utilized to incorporate the contribution of technologies into the setting of the Target Emission Rate (TER), for buildings?	
	Fixed carbon reduction (in kg.CO ₂ /m ² /year)	
	Percentage of roof area of PV	
	Other	
	Don't know	X
	Please give reasons for your choice	
16.	The proposals explain the Government's preference for a 20% agg CO ₂ performance standards for new non-domestic buildings from Coption do you prefer and why?	•
	No change	
	Target A: 10% aggregate improvement (1% PV)	
	Target B: 11% aggregate improvement (No PV)	X
	Target C: 20% aggregate improvement (5% PV)	
	Don't know	
	Please give reasons for your choice	_
	Please see our answer to Q13. However, we have no objection to target C as long as it does not permit the building envelope performance to be inferior to that in target B.	0

21.	The Impact Assessment makes a number of assumptions on the costs of fabric/services/ renewables, new build rates, etc for new non-domestic buildings. Do you think these assumptions are fair and reasonable? Please justify your views.
	Yes No Don't know X
	Comments
22.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for new non-domestic buildings?
	Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know X
	Comments
Cun	nulative impact of policies
23.	Overall, do you think the assessment of the impact on development is broadly fair and reasonable? Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know X
	Comments
Nati	onal Planning Policy Review
24.	What role should planning play in facilitating higher carbon standards? Should it focus on facilitating site wide energy opportunities that will be needed as we move towards zero or near zero carbon buildings?
	Views

Planning should play no role. Building Regulations alone should determine the appropriate standards for energy efficiency in buildings. Please keep administrative procedures and hurdles to a

Views					
Again, B be suffic		tions should be	the mechanis	m, and should	d
		nent and certific sustainable bui	•	•	to the costs and be
Yes	No	Don't know	X		
Comments	5				
beyond Buacross Wa	ıilding Regulat	•	•	_	standards above a laying field of stand
beyond Buacross Wa Views	uilding Regulat ules? answer to Q2	•	we ensure the	re is a level p	laying field of stand
Views As in our matter for what do y expecting	uilding Regulat nles? Tanswer to Q2 Tr Building Reg	ions? How can 4, energy effici	we ensure the	re is a level p gs should be a	laying field of stand
beyond Buacross Wave Views As in our matter for What do y	uilding Regulat nles? Tanswer to Q2 Tr Building Reg	ions? How can 4, energy effici julations alone.	we ensure the ency in building	re is a level p gs should be a	laying field of stand
beyond Buacross Was Views As in our matter for the second with the second win	answer to Q2 or Building Regulater ou see as the buildings to be buildings to be minimum) oth	ions? How can 4, energy efficitulations alone. positive/negative certified again	ency in building we ensure the	gs should be a emoving Part AM?	laying field of stand

	To what extent are duplication of standard and approval systems an issue? Would the removal of the PfSB policy assist in reducing duplication?					
	Views					
	What opportunities are there for higher standards to be delivered on strategic sites identified as part of the Local Development Plan?					
	Views					
Si	ting buildings					
	Do you agree with the proposal to raise performance standards for domestic replacement windows? Please explain your answer.					
	Yes X No Don't know					
	Comments					
	The GGF welcome the proposal to retain the existing U value 1.6 and WER band C and Centre pane U value of 1.2. However, the GGF do feel the WER requirement could be raised to Band B. The GGF do not understand why there should be different requirements from the 4 different regions of the UK because this would require proliferation of glass and window product specifications, resulting in extra cost to the manufacturers and installers across the UK.					

No Don't know re happy with the proposed requirements for windows within extensions. e with the proposal to raise performance standards for non-domestic Please explain your answer.
within extensions. e with the proposal to raise performance standards for non-domestic
within extensions. e with the proposal to raise performance standards for non-domestic
No Don't know
standards required for extensions should be the same as Id (to simplify matters for those in the supply chain).
e that the exemption for conservatories or porches should be removed where room heat or air conditioning unit is installed? How effective would this change energy use/emissions, or are there other ways by which energy performanc proved where conservatories or porches are installed?
No Don't know
i

A ground floor, single storey construction of floor area less than 30m² with not less than three quarters of the roof area and not less than one half of the external wall area made of translucent material, (excluding any wall area required to be opaque for other planning considerations such as boundary walls and walls within 1m of the boundary), separated from the main building by external grade doors and windows and, if heated, having a heating system which is separate from that of the main building.

The heating or cooling proposal could not be policed or enforced, if a conservatory is constructed with no heating or cooling that can be controlled by building regulations however, the owners actions cannot be regulated once the installer has left the site.

The recast Energy Performance of Buildings Directive probably requires this anyway. We do however feel that the consequential improvements should not be limited to the single option of loft, cavity and cylinder insulation, instead this should allow any measure stated within PAS 2030.

37. The consultation explains that the regulatory requirement for consequential improvements upon domestic extensions or increases in habitable space would be limited to a list of measures comprising a minimum standard of loft insulation, hot water cylinder insulation and the installation of cavity wall insulation.

Do you agree with this list of measures?	
Should this list be different (please explain below)?	X
Another approach (please explain below)	
Don't know	

Comments

For non-domestic buildings, Part L already offers a range of consequential improvement options; the same principle should apply to dwellings, and any measure listed within PAS 2030 should be included as an improvement..

41.

42.

43.

44.

costs.

Yes

Yes

Comments Windows and glazing not costed in isolation in the IA, so we cannot Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for consequential improvements in existing non-domestic buildings? Please justify your view and provide alternative evidence necessary. Yes	Comments				
potential costs and benefits of the proposed options for consequential improvements in existing homes? Please justify your view and provide alternative evidence if necessary. Yes	1	ing are not costed in	n isolation in the I	A, so we	
Comments Windows and glazing not costed in isolation in the IA, so we cannot Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for consequential improvements in existing non-domestic buildings? Please justify your view and provide alternative evidence necessary. Yes	potential costs and	benefits of the prop	osed options for c	onsequential in	mprovements in
Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for consequential improvements in existing non-domestic buildings? Please justify your view and provide alternative evidence necessary. Yes No Don't know X Comments Windows and glazing are not costed in isolation in the IA, so we cannot comment Dliance and Performance or new dwellings, Welsh Government is proposing to develop a compliance checklist. Do but think such a checklist would be used sufficiently to warrant its development? Yes No Don't know X Comments Such a checklist was developed, what should it cover? Comments	Yes No Comments	Don't know	X		
potential costs and benefits of the proposed options for consequential improvements in existing non-domestic buildings? Please justify your view and provide alternative evidence necessary. Yes No Don't know X Comments Windows and glazing are not costed in isolation in the IA, so we cannot comment Diliance and Performance or new dwellings, Welsh Government is proposing to develop a compliance checklist. Do but think such a checklist would be used sufficiently to warrant its development? Yes No Don't know X Comments Such a checklist was developed, what should it cover? Comments	Windows and glazir	ng not costed in isolati	on in the IA, so we	cannot	
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Diliance and Performance or new dwellings, Welsh Government is proposing to develop a compliance checklist. Do ou think such a checklist would be used sufficiently to warrant its development? Yes No Don't know X Comments such a checklist was developed, what should it cover? Comments	Comments				
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or new dwellings, Welsh Government is proposing to develop a compliance checklist. Do but hink such a checklist would be used sufficiently to warrant its development? Yes No Don't know Comments such a checklist was developed, what should it cover? Comments	oliance and Perf	ormance			
Comments such a checklist was developed, what should it cover? Comments	•			•	
such a checklist was developed, what should it cover? Comments	Yes No	Don't know	x		
Comments	Comments				
Comments					
Comments					
Comments	f such a checklist wa	as developed, what	should it cover?		I
	Comments	, ,			
Windows and glazing have a major impact on the energy	Min de con en la la	dia a la accesa de constituir de]

49.	If the checklist was taken forward, who should be involved in its development?
	Comments
	The GGF working with the FITP would be happy to be consulted on fenestration aspects.
50.	Would any other approach be likely to prove more effective instead (such as a PAS ² type approach).
	Yes No Don't know X
	Comments
51a.	Would it be preferable for buildings of a domestic nature to be able to achieve compliance through applying the recipe in AD L1A, in acknowledgement of the domestic nature of such buildings, rather than demonstrating compliance with AD L2A? Yes X No Don't know
	Comments
	Some small domestic-style non dwellings might require air conditioning, so the dwelling fabric standards might not be appropriate.
51b.	What are the arguments for and against this approach?
	Comments
	Some small domestic-style non dwellings might require air conditioning, so the dwelling fabric standards might not be appropriate.
52.	Additional views and suggestions for addressing compliance and performance issues in new non domestic buildings would be welcome.
	Comments

	Is the newly formatted ADL1B easier to understand and use?
•	Yes x No Don't know
(Comments
	Are there any further amendments to the newly formatted ADL1B that you would recommend? If so, please provide details.
,	Yes No X Don't know
(Comments
	How do the consultation proposals impact on the work of Local Authorities and Approved Inspectors? Please give positive and negative impacts.
(Comments
	We have asked a number of specific questions. If you have any related issues which we have not specifically addressed, please use this space to report them:
I	Please enter here:
	As referred to in our responses to several questions, we deplore the different compliance criteria and performance standards between the proposals for Wales and England. Designers, builders, manufacturers and installers generally operate in both these parts of the UK, so the divergent requirements will add to bureaucracy and cost, and not a little confusion.

#42 - CIOB Wales Cymru

2012 consultation on changes to the

Building Regulations in Wales

Part L (Conservation of fuel and p	oower)
Consultation Response Form Your name: Laura Cl Organisation (if application)	arke able): CIOB Wales /Cymru
(ix) Are the views expressed on this coronganisation you represent or your organisational X Personal Views	
(x) Are your views expressed on this coor support of any group? If yes pleated Yes X No Name of group: CIOB Wales/ Cymru— (xi) Please tick the one box that best de	Regional Branch
Builders/Developers: Builder / Main contractor: Builder/ Small builder: (extensions/repairs/maintenance, etc) Installer/ special sub-contractor Commercial developer House builder	Property Management: Housing association (registered social landlord) Residential landlord, private sector Commercial Public sector

Building occupier: Home owner	Building Control Bodies: Local authority building control	
Tenant (residential) Commercial Building	Approved Inspector	
Energy Sector	Fire and Rescue Authority	
Designers/Engineers/Surveyors: Architect Civil/Structural engineer Building services engineer Surveyor	Specific Interest: Competent person scheme operator National representative or trade body Professional body or institution Research/ academic organisation	

Manu	facturer/ Supply Chain	Other (please specify)
(xii)	business? Micro – typically 0 to 9 full-time or equivale Small – typically 10 to 49 full-time or equiv Medium – typically 50 to 249 full-time or equivale Large – typically 250+ full-time or equivale	alent employees quivalent employees nt employees
(vi)	None of the above (please specify) Profess (Represented regionally by 1500 members) Are you or your organisation a member Yes No X	
(vii)	Name of scheme: Would you be happy for us to contact y consultation? Yes x No	ou again in relation to this

WG will process any personal information that you provide us with in accordance withthe data protection principles in the Data Protection Act 1998. In particular, we shall protect all responses containing personal information by means of all appropriate technical security measures and ensure that they are only accessible to those with an operational need to see them. You should, however, be aware that as a public body, the Welsh Government is subject to the requirements of the Freedom of Information Act 2000, and may receive requests for all responses to this consultation. If such requests are received we shall take all steps to anonymise responses that we disclose, by stripping them of the specifically personal data – name and e-mail address – you supply in responding to this consultation. If, however, you consider that any of the responses that you provide to this survey would be likely to identify you irrespective of the removal of your overt

personal data, then we should be grateful if you would indicate that, and the likely reasons, in your response, for example in the relevant comments box.

O		_		L :	_		_	_
w	u	H	5	П		n	9	Ξ

New homes

1.	Do you agree with the Government's preference for a CO ₂ saving of 40% reduction in carbon dioxide emissions compared to Part L 2010.
	No change to 2010
	40% CO ₂ saving
	25% CO ₂ saving
	Something else (please explain below)
	Don't know
	Comments
	Yes, in respect of the reduction in carbon dioxide emissions we agree with the maximum saving (40%) on the basis there will be no further changes to fabric. This should assist with contractors/mfts/suppliers who currently deal with changes on a regular basis; it will be far simpler if the insulation requirements for floor, walls and roofs are fixed and will not change in future amendments.
2.	Do you agree with the proposal for an 'aggregate' approach to CO_2 target setting for new homes in 2015? The CO_2 target for any individual dwelling varies depending on the ease with which the building can achieve the target, with the overall required CO_2 saving achieved when aggregated over the build mix.
	Yes x No Don't know
	Comments
	Yes – Currently larger dwellings which may typically have a biggers cost margins are meeting compliance far easier than smaller more affordable housing. The aggregate approach will support the CO2 saving to be achieved with similar specifications across a mix of dwellings types.
3.	Do you agree with the proposal for a compliant option based on a consistent recipe of elemental specifications for fabric, services plus an additional CO ₂ saving equivalent to an amount of photovoltaic (PV). Please justify your choice.
	Yes x No Don't know
	Comments

Yes- recipe is a good and simpler solution for SME'S. This will allow SME's to adhere to a standard specification and guarantee compliance; this will also allow manufactures to produce innovative methods of meeting u-values. Problems may arise with meeting compliance is Air Pressure Testing; further training is required for SME contractors to understand what building an air tight building entails. Clarification is also required around thermal bridging, Accredited Construction Details do not allow for enough flexibility.

4.	The main difference between the recipes is the required system efficiency for each fuel, which is appropriate for the heating system type. By adopting this approach to different fuel types, there is no need for a separate fuel factor. Do you agree with the proposed approach?
	Yes X No Don't know Comments
	 Yes, current regulations unfairly penalise off grid solutions An issue particularly in rural areas in respect of fuel availability would seem sensible. Some fuels may not be suitable due to safety issues such as high rise apartments.
	For the CO ₂ savings proposed, are the recipe specifications a sensible way of achieving them? Please justify your choice.
	Yes x No Don't know Comments
	Yes - simpler for contactors, Part L SAP increasingly complex. Should help to improve a move towards standardisation and familiarity in construction and best practice, however too much bias to PV with no mention of alternative proven options and it may discourage innovation. Could foresee maintenance issues for the end user.
6.	In approaching the selection of the amount of PV to be installed on dwellings, do you prefer?
	Fixed percentage of building foundation area
	Proportion of gross internal floor area with a practical cap
	Don't know
	Comments

Fixed Percentage of Building Footprint – we feel term Foundation is misleading area could be mis-interpreted. A percentage of building foundation area is sensible however this may not necessarily fit with multi- level high rise building types with apartments. Area needs to be practical and linked to space to accommodate.

7.	Do you agree that the limits on design flexibility 'backstop' values for fabric elements in new homes should be changed from the current reasonable provision in the technical guidance to become mandatory?
	Yes x No Don't know
	Comments
	The mandatory limits proposed seem to align with and work towards stretching CO2 Targets. This will support future proof of homes and reduce likelihood for future upgrades.
8.	Do you agree with the changes to the 'backstop' values proposed? Please explain your decision.
	Yes X No Don't know
	Comments
	Yes – If the new regulations are not going to take into account any Fabric Energy Efficiency Standards (FEES) then these backstop u-values are essential.
9.	Do you have any other comments on the proposed changes to Approved Document L1A or the domestic National Calculation Methodology? Please make it clear which issue each comment relates to by identifying the relevant paragraph number.
	Comments
	No Comment
10.	The Impact Assessment makes a number of assumptions on fabric/services/ renewables costs, new build rates, phase-in rates, learning rates, etc for new homes. Do you think these assumptions are fair and reasonable? Please justify your views.
	Yes No Don't know X
	Comments

	There is a tendency to steer towards solutions which are easier to model mathematically for example active discouragement of solar gain, heat distribution and AC systems.
11.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for new homes? Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know x
	Comments
	No comment in respect of impact assessment questions– appear reasonable
New	non-domestic buildings
12.	Do you agree with the proposal for 2013 for non-domestic buildings to explicitly regulate energy efficiency separately from low carbon technologies through the assessment of primary energy consumption (PEC)? Does PEC seem like a reasonable basis for standard setting?
	Yes x No Don't know Comments
	 Yes – appears to be a sensible solution considering the varying energy requirements from different buildings. PEC will ensure a fabric first approach
13.	Which package of fabric and services should be selected: 7% or 10%? Please give reasons for your choice.
	7%
	10% x
	Don't know
	Comments
	10%

Yes x No Don't know	
Comments	
Yes – Industrial type buildings will struggle to meet TPEC in a cosmanor, shell and core developments will also be problematic.	st effective
Which approach should be utilized to incorporate the co technologies into the setting of the Target Emission Rat buildings?	
Fixed carbon reduction (in kg.CO ₂ /m ² /year)	x
Percentage of roof area of PV	
Other	
Don't know	
Please give reasons for your choice	
Fixed carbon reduction – do not want the impression PV is a requother potentially innovative solutions. This will incentivise renewa	
The proposals explain the Government's preference for CO ₂ performance standards for new non-domestic build option do you prefer and why?	00 0 .
No change	
Target A: 10% aggregate improvement (1% PV)	
Torget D. 110/ eggregate improvement /Na DV/	
raiget b. 11% aggregate improvement (No PV)	
	X
Target B: 11% aggregate improvement (No PV) Target C: 20% aggregate improvement (5% PV) Don't know	X

17.	Do the proposed 2013 notional buildings as set out in the changes to the National Calculation Methodology seem like a reasonable basis for standards setting? Please provide comments on the method used to develop the notional buildings and particular elements of one or more of the notional buildings, if relevant.
	Yes X No Don't know
	Comments
	No Comment
18.	Do you think that a further recipe should be created for buildings under 250m ² and aligned with the proposed domestic recipe? Are there particular reasons why smaller buildings find compliance with the non-domestic recipes difficult? Please justify your views.
	Yes No Don't know Comments
	Yes – Too onerous and complex, domestic house builders (SMEs) sometimes undertake small non-domestic schemes; this will assist to simplifyrequirements.
19.	Although we recognise that some buildings may need to be serviced in a particular way for legitimate functional or environmental reasons, should Part L incentivise a lower carbon servicing strategy (as with the current Energy Performance Certificate methodology), by basing the notional building on mixed-mode ventilation?
	Yes X No Don't know
	Comments
	Agree – in line with the reality on site.
20.	Do you have any other comments on the proposed changes to Approved Document L2A or the non-domestic National Calculation Methodology? Please make it clear which issue each comment relates to by identifying the relevant paragraph number.
	Comments
	No Comment

21.	The Impact Assessment makes a number of assumptions on the costs of fabric/services/ renewables, new build rates, etc for new non-domestic buildings. Do you think these assumptions are fair and reasonable? Please justify your views.
	Yes No Don't know
	Comments
	No comment in respect of impact assessment questions
22.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for new non-domestic buildings?
	Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know
	Comments
	No Comment
Cum	nulative impact of policies
23.	Overall, do you think the assessment of the impact on development is broadly fair and reasonable? Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know
	Comments
	No Comment
Nati	onal Planning Policy Review
24.	What role should planning play in facilitating higher carbon standards? Should it focus on facilitating site wide energy opportunities that will be needed as we move towards zero or near zero carbon buildings?
	Views
	None – the Planning department have limited understanding of requirements. Planning should be there to consider sustainability as a general topic and only carbon reductions in an indirect manor i.e. transport. Direct carbon reductions should be dealt with by Building Regulations.

25. What are the implications from future (and regular) changes to the Code for Sustainable Homes and BREEAM on the implementation of the policy?

Views

In reality will Planning departments take enforcement action? Regular and future changes will cause difficulties (as they have already – planning conditions in respect of the Code and BREEAM are varied, unsuitable and unenforceable in my opinion).

If planning policy kept requirements to rating band only (BREEAM Very Good/CSH Level 3) without specific credits in specific sections then future/regular changes will not be an issue.

26.	Are the costs of assessment and certification now disproportionate to the costs and benefits
	of achieving a minimum sustainable buildings standard level?

Yes	No	o 📗	Don't know	Х

Comments

The additional cost for the developer is great particularly for schemes that are still at risk (not only for assessment, for requirement of other consultants notwithstanding the extra on site costs required toachieve minimum standard). Costs at early stages are disproportianate however long term benefits are not being considered here. Alan Crane (CIOB President 2011-13) states "Designing, building and operating to BREEAM standards yields hugely beneficial energy savings for minimal capital cost, reducing both operational expenditure and carbon emissions"

27. What should be the role of local planning authorities in setting local standards above and beyond Building Regulations? How can we ensure there is a level playing field of standards across Wales?

Views

None, I do not feel setting standards above and beyond building regulations is a planning function. It has long been recognised that the building regulations are the national standard to meet. UtilisingBuilding Control will ensure a level playing field for the standards across Wales.

Planning should stick to wider sustainability issues only, with carbon reduction being met by building regulations. Standard should be set above building regulations because they are different issues.

28.	What do you see as the positive/negative impacts of removing Part B of the policy
	expecting buildings to be certified against Code/BREEAM?
	Views

Positive –save at risk costs; avoid duplication; encourage development.

Negative –however leaving Part C in policy could result in a potential lack of consistency (subjective). Negative – Although building regulations will surpass the energy requirements set out in both CSH and BREEAM there are a number issues that are being ignored here. For example Ene2: Fabric Energy Efficiency will reward properties which maximise energy saving measures brought about by fabric first approach. With regards to BREEAM, schemes are tailored to development types and therefore there are number of credits that ensure all round sustainability, including ecological, social and environmental.

In general both schemes encourage all round better quality developments. Loss of industry surrounding these assessments including; assessors, ecologists, acousticians.

There is also an indirect reduction in carbon emissions as results to these assessments that is not being considered.

29. Is there a better, alternative, way to rewards and secure sustainable buildings (above the regulatory minimum) other than using national planning policy? What opportunities are there for future changes to Building Regulations?

Views			
No Comment			

30. To what extent are duplication of standard and approval systems an issue? Would the removal of the PfSB policy assist in reducing duplication?

Views

Duplication will not be an issue if no requirements in regards to CO2 are stated within planning policy.

31. What opportunities are there for higher standards to be delivered on strategic sites identified as part of the Local Development Plan?

Views

No Comment			

ting bu	ildings								
	gree with the propos	al to raise perform	ance s	standar	ds for do	omestic re	eplacen	nent windows	? Ple
explain y	our answer.								
Yes	No No	Don't know							
Commen	ts								
-	As Technology evol	ves this is a natura	al prog	ression	۱.				
	Remove the empha noted that research draught proofed and Value than a replace	indicates that an ed have secondary	existing	g windo	w can be	e repaired	d,		
-	This should be an e approach. Unsure a					nt technio	cal		
•	agree with the pre	•	perfo	ormano	ce stan	dards fo	or dom	estic exten	sior
Yes	No .	Don't know							
Comme	ents								
V 41		a la collección a atamate							
issue w	ne main query on site ith the standard itseliconstant most contractions.	f. If we have a sta	ndard;	albeit l	higher th				
	is needed in many o I bridging".	circumstances as t	here c	ould be	e extreme	e cases o	f		
extensi	agree with the prons? Please expl	ain your answe		ormano	ce stan	dards fo	or non	-domestic	
Yes	No	Don't know							
Comme	ents								
	t improve? If standar sed to embed a cons					ould be			
an indiv	agree that the exidual room heat on the contract of the contra	or air conditioni /emissions, or a	ng un are th	it is in ere otl	stalled her wa	? How e	effectiv	e would thi	s cł
			- · · ·						
Yes	ː No	Don't know							

Comments

Yes – would se room heat or AC	at stops someone from po	ost installing a	
	equire consequential ir ing homes below 1000		

Comments

Yes

36.

Yes - although some reservations in how homeowners would consider this requirement?

Don't know

Yes - This may deter most home owners from considering extensions. Some improvements may have already been undertaken, further improvements may not be suitable for the type of house/dwelling. This should be benchmarked.

37. The consultation explains that the regulatory requirement for consequential improvements upon domestic extensions or increases in habitable space would be limited to a list of measures comprising a minimum standard of loft insulation, hot water cylinder insulation and the installation of cavity wall insulation.

Do you agree with this list of measures?	Yes	
Should this list be different (please explain below)?		
Another approach (please explain below)	Yes	
Don't know		

Comments

Some of these could be problematic (cavity wall insulation in extreme weather exposure areas) and there are additional elements that could be considered (e.g. windows). Caveat in Building Regulations ensures that cavity wall insulation does not have to be installed where it is not "technically, functionally and economically feasible"

An interactive tool is being developed by the Sustainable Traditional Buildings Alliance (STBA) and this should be used to develop the most effective measures - this is particularly important for traditional (per 1919) buildings, which equate to 34% of the building stock in Wales. The approach should also focus on ensuring that buildings are kept in good repair to ensure energy efficiency. Research highlights that a damp wall can release up to 38% more heat than a dry wall, thus emphasising the need to keep walls in good repair.

.	What effect do you think the requirements for consequential improvements may have on the demand for repair, maintenance and improvement activity? Please use evidence to explain your answer.
	Increase demand x
	Reduce demand
	No effect
	Don't know
	Comments
	If comments on the need for repair as an energy efficiency measure.
).	Do you agree with the proposal to introduce consequential improvements upon extensions or increases in habitable space in non-domestic buildings under 1000m ² ? Please explain your view.
	Yes x No Don't know Comments
	Continents
	The type of consequential improvement should be affordable and suitable, but this may be a deterrent to potential improvements
	The consultation proposes that for non-domestic buildings, any measure from list which is used to generate Green Deal assessments, the list in SBEM used to generate Energy Performance Certificate recommendations and the existing list of typical consequential improvement measures from Approved Document L2B should be eligible to be a consequential improvement. Do you agree?
	Yes
	No
	Prefer a different list (please specify)
	Don't know
	Comments
	No Further Comments

Do you agree that there should not be major problems in extending the requ consequential improvements for the building control process? If you do fores what are they and how might these be addressed?				
	Yes x No Don't know			
	Comments			
	If the consequential improvements are as noted above they will be simple and should not in themselves attract additional fee.			
	Do you have any other comments on the proposed changes to Approved Document L1B? Please make it clear which issue each comment relates to by identifying the relevant paragraph number.			
	Comments			
	Flowchart is effective			
	Reference to paragraph 3.1 referring to pay back. The reference to SAP calculations will provide potentially in accurate paybacks. Please see the STBA report.			
	Paragraph 3.8 c - the "special consideration" should be required to undertake work such as solid wall insulation due to known and unknown risks (see STBA report).			
	Paragraph 5.13. Table 3: Data on the U Value of existing walls is inaccurate so we don't know what current U Values are unless institution tests are undertaken which can take 2 - 3 weeks. It is therefore impossible to understand what new U Value is being created. In some circumstances the proposed U Values for walls will be impossible to achieve.			
	Do you have any other comments on the proposed changes to Approved Document L2B? Please make it clear which issue each comment relates to by identifying the relevant paragraph number.			
	Comments			
	No Comment			
	Do you think that the Impact Assessment is a fair and reasonable assessment of the potential costs and benefits of raising the performance standards for replacement domestic windows and domestic/non-domestic extensions? Please justify your view and provide alternative evidence if necessary.			
	Yes No Don't know			
	Comments			

	No Comment	
45.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for consequential improvements in existing homes? Please justify your view and provide alternative evidence if necessary.	
	Yes No Don't know	
	Comments	
	No Comment	
46.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for consequential improvements in existing non-domestic buildings? Please justify your view and provide alternative evidence necessary.	if
	Yes No Don't know	
	Comments	
	No Comment	
Cor	npliance and Performance	
47.	For new dwellings, Welsh Government is proposing to develop a compliance checklist. Do you think such a checklist would be used sufficiently to warrant its development?	
	Yes No Don't know Comments	
	BCB already note much of the information required in any case through the inspection regime	
48.	If such a checklist was developed, what should it cover?	
	Comments	
	No Comment	

49.	If the checklist was taken forward, who should be involved in its development?
	Comments
	BCB
50 W	Vould any other approach be likely to prove more effective instead (such as a PAS ³ type
	approach).
	Yes No Don't know
	Comments
	No Comment
51a.	Would it be preferable for buildings of a domestic nature to be able to achieve compliance through applying the recipe in AD L1A, in acknowledgement of the domestic nature of such
	buildings, rather than demonstrating compliance with AD L2A?
	Yes X No Don't know Comments
	Yes – This would simplify the process for SME's used to domestic developments
51b.	What are the arguments for and against this approach?
	Comments
	No Comment

³ A PAS is a Publically Available Specification, and the PAS would set out a quality assurance approach.

52. Additional views and suggestions for addressing compliance and performance new non domestic buildings would be welcome.				
	Comments			
	No Comment			
53.	Is the newly formatted ADL1B easier to understand and use?			
	Yes No Don't know X			
	Comments			
	No further Comment			
54.	Are there any further amendments to the newly formatted ADL1B that you would recommend? If so, please provide details.			
	Yes No Don't know X			
	Comments			
	No further Comment			
55.	How do the consultation proposals impact on the work of Local Authorities and Approved Inspectors? Please give positive and negative impacts.			
	Comments			
	This will give more responsibility and may require additional resource to manage.			
56.	We have asked a number of specific questions. If you have any related issues which we have not specifically addressed, please use this space to report them:			
	Not sure that the consultation has taken into account recent and on-going studies, particularly with existing domestic. In Wales there are 1.3million existing homes with a 5,000-10,000 per anum new build rate. Whilst new build needs to be targeted, consequential improvements could have the greatest impact for this exercise. Consequential improvements may not be suitable for many house types			

#45 - Engineering Panels in Construction

2012 consultation on changes to the

Building Regulations in Wales

Duii	iding ixeg	uialions	o III vvales
Part	t L (Conserv	ation of fu	uel and power)
Consultation Response Form		Your name:	: Peter Trew
		Organisatio	on (if applicable): EPIC [Engineered Panels in Construction]
(xiii)			on this consultation an official response from the nt or your own personal views?
	Organisational	YES	Personal Views
(xiv)	•	•	d on this consultation in connection with your membership If yes please state name of group:
	Yes No [
	Name of group	:	

Please tick the one box that best describes your organisation:

Builders/Developers: Builder / Main contractor: Builder/ Small builder: (extensions/repairs/maintenance, etc) Installer/ special sub-contractor Commercial developer House builder	Property Management: Housing association (registered social landlord) Residential landlord, private sector Commercial Public sector	
Building occupier: Home owner Tenant (residential) Commercial Building	Building Control Bodies: Local authority building control Approved Inspector	
Energy Sector	Fire and Rescue Authority	

Designers/Engineers/Surveyors:	Specific Interest:		
Architect	Competent person scheme operator		
Civil/Structural engineer	National representative or trade		
Building services engineer	body		
Surveyor	Professional body or institution		
	Research/ academic organisation		
Manufacturer/ Supply Chain YES –	Other (please specify)		
Association of UK manufacturers of Insulated Panels for the building envelope –			
Non-domestic buildings			
(xvi) Please tick the <i>one</i> box which best des business?	cribes the size of your or your organisation's		
Micro – typically 0 to 9 full-time or equivalent	ent employees (incl. sole traders)		
Small – typically 10 to 49 full-time or equiv	valent employees		
Medium – typically 50 to 249 full-time or e	quivalent employees		
Large – typically 250+ full-time or equivale	ent employees		
None of the above (please specify) Manufacturing members of the Association are both 'Large' and 'Medium' organisations			
(vi) Are you or your organisation a membe	r of a competent person scheme?		
Yes No X			
Name of scheme:			
(vii) Would you be happy for us to contact y	ou again in relation to this		

റ	neii	Itati	on?
uu	1134	псан	OII:

Yes	YES	No	

WG will process any personal information that you provide us with in accordance with the data protection principles in the Data Protection Act 1998. In particular, we shall protect all responses containing personal information by means of all appropriate technical security measures and ensure that they are only accessible to those with an operational need to see them. You should, however, be aware that as a public body, the Welsh Government is subject to the requirements of the Freedom of Information Act 2000, and may receive requests for all responses to this consultation. If such requests are received we shall take all steps to anonymise responses that we disclose, by stripping them of the specifically personal data - name and e-mail address - you supply in responding to this consultation. If, however, you consider that any of the responses that you provide to this survey would be likely to identify you irrespective of the removal of your overt personal data, then we should be grateful if you would indicate that, and the likely reasons, in your response, for example in the relevant comments box.

Que	estions:	
New	homes	
1.	Do you agree with the Government's preference for a CO ₂ saving of 40 carbon dioxide emissions compared to Part L 2010.	% reduction in
	No change to 2010]
	40% CO ₂ saving	
	25% CO ₂ saving]
	Something else (please explain below)]
	Don't know	
	Comments	
2.	Do you agree with the proposal for an 'aggregate' approach to CO ₂ target homes in 2015? The CO ₂ target for any individual dwelling varies depe with which the building can achieve the target, with the overall required achieved when aggregated over the build mix.	nding on the ease
	Yes No Don't know	

Don't know	
Comments	
Do you agree that the limits on design flexibilit homes should be changed from the current re to become mandatory?	
Yes No Don't know	
Comments	
Do you agree with the changes to the 'backsto decision.	op' values proposed? Please explain
Yes No Don't know	
Comments	
Do you have any other comments on the prop the domestic National Calculation Methodolog comment relates to by identifying the relevant	gy? Please make it clear which issue
Comments	
The Impact Assessment makes a number of a costs, new build rates, phase-in rates, learning these assumptions are fair and reasonable?	g rates, etc for new homes. Do you t
Yes No Don't know	
Tes Bont know	
Comments	

Don't know

Yes

No

2012 consultation on changes to the Building Regulations in Wales Part L (Conservation of fuel and power) I 67

Comments

See Q13 and Q16. There are conce	erns about the	e difficulties of	compliance
of smaller industrial buildings			

15.	Which approach should be utilized to incorporate the contribution of technologies into the setting of the Target Emission Rate (TER), for buildings?				
	Fixed carbon reduction (in kg.CO ₂ /m ² /year)	X			
	Percentage of roof area of PV				
	Other				
	Don't know				
	Please give reasons for your choice				
	There are a greater number of renewable generation technologies for no dom buildings of which PV is one. PV should not be the only reference listed as determining an equivalent performance from an alternative technology is complex and not well defined	n-			
16.	The proposals explain the Government's preference for a 20% aggregate improvement in CO ₂ performance standards for new non-domestic buildings from October 2013. Which option do you prefer and why?				
	No change				
	Target A: 10% aggregate improvement (1% PV)				
	Target B: 11% aggregate improvement (No PV)				
	Target C: 20% aggregate improvement (5% PV)	X			
	Don't know				
	Please give reasons for your choice				
	EPIC's preference is for the 20% aggegate improvement. However it is important that the amendments agreed between the Industrial Buildings Group and DCLG for smaller buildings and currently being incorporated SBEM [Aug 2012] are made if the target 20% is to be achievable.	d in			
	Many of the smaller footprint buildings, below 1500m ² , already had difficulty in complying. A further 20% improvement is likely to requal a substantial use of renewables.				

17.	Do the proposed 2013 notional buildings as set out in the changes to the National Calculation Methodology seem like a reasonable basis for standards setting? Please provide comments on the method used to develop the notional buildings and particular elements of one or more of the notional buildings, if relevant.				
	Yes No X Don't know				
	Comments				
	There is no transparency regarding the new aggregate proportions expected from each of the building types outlined in the 2010 documents. Serious concern was expresssed at that time whether industrial buildings could realize the proposed level of savings. Stakeholders should be informed of the new proportionate breakdowns for 2013 because typical industrial buildings cannot provide the same compound increase this time.				
18.	Do you think that a further recipe should be created for buildings under 250m² and aligned with the proposed domestic recipe? Are there particular reasons why smaller buildings find compliance with the non-domestic recipes difficult? Please justify your views. Yes No Don't know				
	Comments				
	There is also a strong case for a further recipe for non-dom industrial buildings under 2500 m ² incorporating revised airtightness levels (see Para 16 above) to enable them reasonably and economically to achieve compliance without a higher than average use of renewables. NOTE. Part 2 Pages 156-8 Tables 5 and 6 state values of 3m ³ and 5m ³ that are not reasonably achievable for smaller industrial				
19.	Although we recognise that some buildings may need to be serviced in a particular way for legitimate functional or environmental reasons, should Part L incentivise a lower carbon servicing strategy (as with the current Energy Performance Certificate methodology), by basing the notional building on mixed-mode ventilation?				
	Yes No Don't know X				
	Comments				
20.	Do you have any other comments on the proposed changes to Approved Document L2A or				

the non-domestic National Calculation Methodology? Please make it clear which issue each

comment relates to by identifying the relevant paragraph number.

Cumulative impact of policies

23.	Overall, do you think the assessment of the impact on development is broadly fair and reasonable? Please justify your view and provide alternative evidence if necessary.				
	Yes	No	Don't know X		
	Comments				

29. Is there a better, alternative, way to rewards and secure sustainable buildings (above the regulatory minimum) other than using national planning policy? What opportunities are there for future changes to Building Regulations?

34. Do you agree with the proposal to raise performance standards for non-domestic extensions? Please explain your answer.

•	nts for consequential improvements may hav d improvement activity? Please use evidence	
Increase demand		
Reduce demand		
No effect		
Don't know		
Comments		
Do you agree with the proposal to introd	luce consequential improvements upon exte	ensions
or increases in habitable space in non-do your view.	lomestic buildings under 1000m ² ? Please ex	cplain
Yes X No Don't know		
Comments		
used to generate Green Deal assessment Performance Certificate recommendation	domestic buildings, any measure from list whents, the list in SBEM used to generate Energins and the existing list of typical consequent Document L2B should be eligible to be a ree?	gy
Yes	X	
No		
Prefer a different list (please specify)		
Don't know		
Comments		
The Green Deal is clearly not working for rany incentive from Government the only of contribution to Carbon /energy savings is to	ption to achieve some	

50.	Would any other approach be likely to prove more effective instead (such as a PAS ⁴ type approach).
	Yes No Don't know
	Comments
E10	Would it be preferable for buildings of a demostic nature to be able to achieve compliance
51a.	Would it be preferable for buildings of a domestic nature to be able to achieve compliance through applying the recipe in AD L1A, in acknowledgement of the domestic nature of such buildings, rather than demonstrating compliance with AD L2A?
	Yes No Don't know
	Comments
51b.	What are the arguments for and against this approach?
	Comments
52.	Additional views and suggestions for addressing compliance and performance issues in
	new non domestic buildings would be welcome. Comments
53.	Is the newly formatted ADL1B easier to understand and use?
	Yes No Don't know
	Comments
4 . D.	

2012 consultation on changes to the

Building Regulations in Wales

Part L (Conservation of fuel and power)

Tart L (Conservation of fuer and power)			
Consultation Response Form	Your name: Gwynedd C Organisation: Gwynedd C	onsultancy Building Control	
	expressed on this consu ou represent or your ow	Itation an official response from n personal views?	the
Organisational	X Personal Views		
	s expressed on this cons any group? If yes please	ultation in connection with your state name of group:	membership
Yes X No			
Name of group:			
Gwynedd Buil	ding Control		
(xix) Please tick the	one box that best descr	ibes your organisation:	
Builders/Developers:	:	Property Management:	
Builder / Main contractor:		Housing association (registered social landlord)	
Builder/ Small builder: (extensions/repairs/maintenance, etc)		Residential landlord,	
Installer/ special sub-contractor		private sector Commercial	
Commercial developer			
House builder Public sector x			

Building occupier: Home owner	Building Control Bodies: Local authority building control
Tenant (residential) Commercial Building	Approved Inspector
Energy Sector	Fire and Rescue Authority
Designers/Engineers/Surveyors: Architect Civil/Structural engineer Building services engineer Surveyor X	Specific Interest: Competent person scheme operator National representative or trade body Professional body or institution x Research/ academic organisation

WG will process any personal information that you provide us with in accordance with the data protection principles in the Data Protection Act 1998. In particular, we shall protect all responses containing personal information by means of all appropriate technical security measures and ensure that they are only accessible to those with an operational need to see them. You should, however, be aware that as a public body, the Welsh Government is subject to the requirements of the Freedom of Information Act 2000, and may receive requests for all responses to this consultation. If such requests are received we shall take all steps to anonymise responses that we disclose, by stripping them of the specifically personal data – name and e-mail address – you supply in responding to this consultation. If, however, you consider that any of the responses that you provide to this survey would be likely to identify you irrespective of the removal of your overt

personal data, then we should be grateful if you would indicate that, and the likely reasons, in your response, for example in the relevant comments box.

Q		Δ	c	fi	\cap	n	C	
w	u	ᄃ	-31	L	u		-3	_

N	lew	ho	m	20

1.	Do you agree with the Government's preference for a CO ₂ saving of 40% reduction in carbon dioxide emissions compared to Part L 2010.
	No change to 2010
	40% CO ₂ saving
	25% CO ₂ saving
	Something else (please explain below)
	Don't know
	Comments
	We tend to disagree in principal with the preferred option and would prefer the later. This would be a more phased approach and would not have as much impact initially than the 40% improvement would. This would give the industry a few years to adapt before making further changes in 2016.
	We also belive that the 40% saving would have a greater impact with regard to cost burdens on developers/contractors on what is already a fragile industry.
2.	Do you agree with the proposal for an 'aggregate' approach to CO_2 target setting for new homes in 2015? The CO_2 target for any individual dwelling varies depending on the ease with which the building can achieve the target, with the overall required CO_2 saving achieved when aggregated over the build mix.
	Yes X No Don't know
	Comments
3.	Do you agree with the proposal for a compliant option based on a consistent recipe of elemental specifications for fabric, services plus an additional CO ₂ saving equivalent to an amount of photovoltaic (PV). Please justify your choice.
	Yes X No Don't know

Comments	
----------	--

The recipe seems to be a very practical solution but it success is dependant on
factors such as; simplified and straightforward solutions, appropriate technical
guidance sheets (or similar) produced.

	guidance sheets (or similar) produced.
4.	The main difference between the recipes is the required system efficiency for each fuel, which is appropriate for the heating system type. By adopting this approach to different fue types, there is no need for a separate fuel factor. Do you agree with the proposed approach?
	Yes x No Don't know Comments
	This seems to simplify the process, thus said, the industry needs to catch up to satisfy the new requirements/changes. Provides a fairer approach to remote areas in Wales.
5.	For the CO ₂ savings proposed, are the recipe specifications a sensible way of achieving them? Please justify your choice.
	Yes X No Don't know
	Comments
	It should simplify and make compliance much straightforward, considering several sectors within the industry are still struggling with the 2006 and 2010 changes, the proposed recipe specification will be a welcome simplified method of achieving compliance. As above, it's success will depend on the industry's ability to catch up.
6.	In approaching the selection of the amount of PV to be installed on dwellings, do you prefer?
	Fixed percentage of building foundation area
	Proportion of gross internal floor area with a practical cap
	Don't know
	Comments
	Seems to be the fairest method. That said, if the proportion of internal floor was to be the preferred option, clear definitions and smile calculation methodologies would need to be included.

Do you agree that the limits on design flexibility 'backstop' values for fabric elements in new homes should be changed from the current reasonable provision in the technical guidance 7. to become mandatory?

	2012 consultation on changes to the Building Regulations in Wales Part L (Conservation of fuel and power) I 84
	Yes X No Don't know
	Comments
	Targets would become easier to achieve on site.
8.	Do you agree with the changes to the 'backstop'values proposed? Please explain your decision.
	Yes X No Don't know
	Comments
	Brings it in line with proposed standards
9.	Do you have any other comments on the proposed changes to Approved Document L1A or the domestic National Calculation Methodology? Please make it clear which issue each comment relates to by identifying the relevant paragraph number.
	Comments
	The documents in general needs to become much easier to read and follow. Although BCO's might find the technical jargon and methods behind some aspects of the document interesting, developers don't care and simply want a simple document and clear cut ways of achieve compliance.
10.	The Impact Assessment makes a number of assumptions on fabric/services/ renewables costs, new build rates, phase-in rates, learning rates, etc for new homes. Do you think these assumptions are fair and reasonable? Please justify your views.
	Yes No Don't know X
	Comments
	No comment
11.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for new homes? Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know X
	Comments
	As above

New non-domestic buildings

12.	Do you agree with the proposal for 2013 for non-domestic buildings to explicitly regulate energy efficiency separately from low carbon technologies through the assessment of primary energy consumption (PEC)? Does PEC seem like a reasonable basis for standard setting?
	Yes X No Don't know
	Comments
	Previous 'loop-holes' as such in previous calculation software packages to achieve compliance with masses of alternative technologies. A fabric first approach would be a much sensible and effective form of construction.
13.	Which package of fabric and services should be selected: 7% or 10%? Please give reasons for your choice.
	7% x
	10%
	Don't know
	Comments
	Set's a more achievable target, and would have less of an impact on the already fragile industry. See also our opinion in Q1
14.	Do you foresee any particular issues for certain categories of building to meet the TPEC or TER?
	Yes No Don't know X
	Comments
	No comment

Which approach should be utilized to incorporate the contribution of low carbon 15. technologies into the setting of the Target Emission Rate (TER), for non domestic buildings?

	Fixed carbon reduction (in kg.CO ₂ /m²/year)			
	Percentage of roof area of PV	X		
	Other			
	Don't know			
	Please give reasons for your choice			
	High rise buildings will prove difficult if they have small roof areas for the use PV's, a fixed carbon reduction may become problematic and unachievable.	e of		
16.	The proposals explain the Government's preference for a 20% aggr CO ₂ performance standards for new non-domestic buildings from O option do you prefer and why?	_	•	n
	No change			
	Target A: 10% aggregate improvement (1% PV)			
	Target B: 11% aggregate improvement (No PV)	X		
	Target C: 20% aggregate improvement (5% PV)			
	Don't know			
	Please give reasons for your choice			
	To much reliance on PV's in the consultation documents. Alternative methods of compliance should have been explored.			
17.	Do the proposed 2013 notional buildings as set out in the changes to Calculation Methodology seem like a reasonable basis for standard provide comments on the method used to develop the notional buildings, if relevant.	s sett	ting? Please	
	Yes X No Don't know			
	Comments			
	No comment			
18.	Do you think that a further recipe should be created for buildings und with the proposed domestic recipe? Are there particular reasons why compliance with the non-domestic recipes difficult? Please justify you	sma	ller buildings fin	
	Yes No Don't know Comments			

Domestic house builders tend to also venture into non-domestic developments. Their understanding of non-domestic developments can be very vague at times therefore a simplified method similar to the recipe for dwellings would be a major advantage.

	servicing strategy (as with the current Energy Performance Certificate methodology), by basing the notional building on mixed-mode ventilation?
Do you have any other comments on the proposed changes to Approved Document L2A of the non-domestic National Calculation Methodology? Please make it clear which issue each comment relates to by identifying the relevant paragraph number. Comments The documents in general needs to become much easier to read and follow. Although BCO's might find the technical jargon and methods behind some aspects of the document interesting, developers don't care and simply want a simple document and clear cut ways of achieve compliance. The Impact Assessment makes a number of assumptions on the costs of fabric/services/renewables, new build rates, etc for new non-domestic buildings. Do you think these assumptions are fair and reasonable? Please justify your views. Yes No Don't know X Comments Following local consultation with Builders Merchants etc, Costs are not accurate. These need to be revised as costs are way off. Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for new non-domestic buildings?	Yes No Don't know X
Do you have any other comments on the proposed changes to Approved Document L2A of the non-domestic National Calculation Methodology? Please make it clear which issue each comment relates to by identifying the relevant paragraph number. Comments The documents in general needs to become much easier to read and follow. Although BCO's might find the technical jargon and methods behind some aspects of the document interesting, developers don't care and simply want a simple document and clear cut ways of achieve compliance. The Impact Assessment makes a number of assumptions on the costs of fabric/services/ renewables, new build rates, etc for new non-domestic buildings. Do you think these assumptions are fair and reasonable? Please justify your views. Yes No Don't know X Comments Following local consultation with Builders Merchants etc, Costs are not accurate. These need to be revised as costs are way off. Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for new non-domestic buildings?	Comments
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renewables, new build rates, etc for new non-domestic buildings. Do you think these assumptions are fair and reasonable? Please justify your views. Yes No Don't know X Comments Following local consultation with Builders Merchants etc, Costs are not accurate. These need to be revised as costs are way off. Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for new non-domestic buildings?	BCO's might find the technical jargon and methods behind some aspects of the document interesting, developers don't care and simply want a simple document and clear cut ways of
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Following local consultation with Builders Merchants etc, Costs are not accurate. These need to be revised as costs are way off. Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for new non-domestic buildings?	
need to be revised as costs are way off. Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for new non-domestic buildings?	Comments
potential costs and benefits of the proposed options for new non-domestic buildings?	
potential costs and benefits of the proposed options for new non-domestic buildings?	
	·

Don't know

23.

24.

25.

26.

Yes

No

Comments

Saving energy is one thing but it appears that costs and recovering benefits are	at
a cost to the developer and end users don't seem to benefit from futre financial	ial
gain.	

27. What should be the role of local planning authorities in setting local standards above and beyond Building Regulations? How can we ensure there is a level playing field of standards across Wales?

Views

Unpractical. Powers of this nature should be dealt with by Building Control only and this should be consistent across Wales. Currently different Counties with different local Planning polices complicate things.

28. What do you see as the positive/negative impacts of removing Part B of the policy expecting buildings to be certified against Code/BREEAM?

Views

I theory this should speed up the planning process. The positives would be the reduction in initial cost, reduction in duplication and would further encourage the growth in new developments. The negative implications would possibly be a lack in consistency

Is there a better, alternative, way to rewards and secure sustainable buildings (above the 29. regulatory minimum) other than using national planning policy? What opportunities are there for future changes to Building Regulations?

Views

Should be enforced by Building Control in accordance with national standards	

30. To what extent are duplication of standard and approval systems an issue? Would the removal of the PfSB policy assist in reducing duplication?

Views

Yes			

What opportunities are there for higher standards to be delivered on strategic sites 31. identified as part of the Local Development Plan?

١,	1	e	٨	ıc

It would be sensible to stick with national police	cy – How can Building Control ask fo
standards above minimum requirements?	•

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⊢VI	CtII	\mathbf{n}	nı		a,	n	10
Exi	ЭUI	II W	\mathbf{v}	411	uı	110	43
		- 3					, -

isting buildings	
 Do you agree with the proposal to raise performance standards for dom windows? Please explain your answer. 	estic replacement
Yes x No Don't know	
Comments	
A balance is required between cost and practicability. Developments of new more effective products required.	
Do you agree with the proposal to raise performance standards for dom Please explain your answer. Yes No Don't know	estic extensions?
Comments	
See above	
Do you agree with the proposal to raise performance standards for non-extensions? Please explain your answer.	-domestic
Yes x No Don't know	
Comments	
No further comment – see Q32	

35.	Do you agree that the exemption for conservatories or porches should be removed where an individual room heat or air conditioning unit is installed? How effective would this change be in limiting energy use/emissions, or are there other ways by which energy performance might be improved where conservatories or porches are installed?
	Yes x No Don't know
	Comments
	Definition on conservatory required. This 'loop-hole' has been exploited for too long, a reduction in the 30m2 would be advisable.
36.	Do you agree with the proposal to require consequential improvements upon extensions or increases in habitable space in existing homes below 1000m ² ? Please explain your view.
	Yes x No Don't know
	Comments
	An introduction of a points system could be the answer whereas property owners who have recently spent on upgrading the existing structure could be awarded with a points system, and if all elements have recently been upgraded there would be no requirements to make any further improvements.
37.	The consultation explains that the regulatory requirement for consequential improvements upon domestic extensions or increases in habitable space would be limited to a list of measures comprising a minimum standard of loft insulation, hot water cylinder insulation and the installation of cavity wall insulation.
	Do you agree with this list of measures?
	Should this list be different (please explain below)?
	Another approach (please explain below)
	Don't know
	Comments
	What happens if these measures have already been done in the past couple of years? How about including New windows, New boiler? See above

38.	the demand for repair, maintenance and improvement activity? Please use evidence to explain your answer.
	Increase demand
	Reduce demand x
	No effect
	Don't know
	Comments
	People will carry out repairs and maintenance when funds are available, long term it should reduce the demand.
39.	Do you agree with the proposal to introduce consequential improvements upon extension or increases in habitable space in non-domestic buildings under 1000m ² ? Please explain your view. Yes X No Don't know
	Comments
	The proposals need to be technically, functional and economically feasible to succeed. General thought are that 1000m2 is too high.
40.	The consultation proposes that for non-domestic buildings, any measure from list which is used to generate Green Deal assessments, the list in SBEM used to generate Energy Performance Certificate recommendations and the existing list of typical consequential improvement measures from Approved Document L2B should be eligible to be a consequential improvement. Do you agree?
	Yes
	No
	Prefer a different list (please specify)
	Don't know
	Comments
	No comment

	2012 consultation on changes to the Building Regulations in Wales Part L (Conservation of fuel and power) I 93
41.	Do you agree that there should not be major problems in extending the requirement for consequential improvements for the building control process? If you do foresee issues, what are they and how might these be addressed?
	Yes X No Don't know
	Comments
	People interpret the regulations differently, needs to be monitored for a level playing field to exist. Consider reducing VAT rates Proposals will result in more visits, resulting in arising issues on site and in turn a possible rise in fees.
42.	Do you have any other comments on the proposed changes to Approved Document L1B? Please make it clear which issue each comment relates to by identifying the relevant paragraph number.
	Comments
	The documents in general needs to become much easier to read and follow. Although BCO's might find the technical jargon and methods behind some aspects of the document interesting, developers don't care and simply want a simple document and clear cut ways of achieve compliance.
	Also greater Publicity needed we are still experiencing difficulties with Renovation of Thermal Elements that came in during 2006. WG should drive a publicity campaign for any proposed changes.
43.	Do you have any other comments on the proposed changes to Approved Document L2B? Please make it clear which issue each comment relates to by identifying the relevant paragraph number.
	Comments
	See above
44.	Do you think that the Impact Assessment is a fair and reasonable assessment of the potential costs and benefits of raising the performance standards for replacement domestic windows and domestic/non-domestic extensions? Please justify your view and provide alternative evidence if necessary. Yes No Don't know X
	100 DOLLKIOW A

Comments

Not our field of expertise

45.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for consequential improvements in existing homes? Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know x
	Comments
	Not our field of expertise
46.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for consequential improvements in existing non-domestic buildings? Please justify your view and provide alternative evidence necessary.
	Yes No Don't know x
	Comments
	Not our field of expertise
Cor	mpliance and Performance
47.	For new dwellings, Welsh Government is proposing to develop a compliance checklist. Do you think such a checklist would be used sufficiently to warrant its development?
	Yes No Don't know
	Comments
	Would be a very hand tool to have when carrying out inspections. Possibly the new SAP/SBEM software could generate such a list as the checklist would need to have the values set out in calculation in it.
48.	If such a checklist was developed, what should it cover?
	Comments
	All elements that have been accounted for in as design SAP calculation.

49.	f the checklist was taken forward, who should be involved in its development?
	Comments
	Building Control, LABC, BRE
	Would any other approach be likely to prove more effective instead (such as a PAS ⁵ type approach).
	Yes No Don't know X
	Comments
	No comment
51a.	Would it be preferable for buildings of a domestic nature to be able to achieve compliance through applying the recipe in AD L1A, in acknowledgement of the domestic nature of such buildings, rather than demonstrating compliance with AD L2A2
	buildings, rather than demonstrating compliance with AD L2A?
	Yes X No Don't know
	Comments
	Would simplify things for the smaller developer
51b.	What are the arguments for and against this approach?
	Comments
	For - Simpler compliance Against – Open to abuse
52.	Additional views and suggestions for addressing compliance and performance issues in new non domestic buildings would be welcome.
	Comments
	Simplify the guidance

⁵ A PAS is a Publically Available Specification, and the PAS would set out a quality assurance approach.

53.	Is the newly formatted ADL1B easier to understand and use?
	Yes X No Don't know
	Comments
	Yes in parts, but still a bit complex in some areas. Flowcharts on alternative ways of compliance etc seem to be an effective tool.
54.	Are there any further amendments to the newly formatted ADL1B that you would recommend? If so, please provide details.
	Yes X No Don't know
	Comments
	No comment
55.	How do the consultation proposals impact on the work of Local Authorities and Approved Inspectors? Please give positive and negative impacts.
	Comments
	Extra work load and dependence will fall on BCB's. WG need to take appropriate action to educate all professions within the industry, from your small builder and builders merchant to larger developers.
56.	We have asked a number of specific questions. If you have any related issues which we have not specifically addressed, please use this space to report them:
	Please enter here:
	Reduce the rate of VAT for all related work to cushion the blow of increased costs and kick start the construction sector on related work. Need to get Planning Conservation Officers on board. Notably with regard to conservation, Listed buildings, developments within the National Park

#48 - Construction Products Association

2012 consultation on changes to the

Buil	ding Reg	ulations	in Wales	3		
Minor	Part L (Conservation of fuel and power) Minor amendments indicated in red					
	sultation onse Form	Your name:	Duncan King			
		Organisation Association	ı (if applicable)): Construction Products		
(xxi)		•		tation an official response from th personal views?	ne	
	Organisational	x Persona	al Views			
(xxii)	Are your views expressed on this consultation in connection with your membership or support of any group? If yes please state name of group:					
	Yes X No					
	Name of group	:				
	Construction	Products Asso	ociation			
(xxiii)	Please tick the	one box tha	it best descri	bes your organisation:		
Builde	ers/Developers	:		Property Management:		

Builders/Developers:	Property Management:
Builder / Main contractor:	Housing association (registered social landlord)
Builder/ Small builder: (extensions/repairs/maintenance, etc)	Residential landlord, private sector
Installer/ special sub-contractor	Commercial
Commercial developer	Public sector
House builder	

Building occupier: Home owner		Building Control Bodies: Local authority building control	
Tenant (residential) Commercial Building		Approved Inspector	
Energy Sector		Fire and Rescue Authority	
Designers/Engineers/Surveyor	rs:	Specific Interest:	
Architect		Competent person scheme operator	
Civil/Structural engineer Building services engineer		National representative or trade body	X
Surveyor		Professional body or institution	
		Research/ academic organisation	

WG will process any personal information that you provide us with in accordance with the data protection principles in the Data Protection Act 1998. In particular, we shall protect all responses containing personal information by means of all appropriate technical security measures and

Yes

No

ensure that they are only accessible to those with an operational need to see them. You should, however, be aware that as a public body, the Welsh Government is subject to the requirements of the Freedom of Information Act 2000, and may receive requests for all responses to this consultation. If such requests are received we shall take all steps to anonymise responses that we disclose, by stripping them of the specifically personal data – name and e-mail address – you supply in responding to this consultation. If, however, you consider that any of the responses that you provide to this survey would be likely to identify you irrespective of the removal of your overt personal data, then we should be grateful if you would indicate that, and the likely reasons, in your response, for example in the relevant comments box.

Questions:

New	homes	
1.	Do you agree with the Government's preference for a CO_2 saving o carbon dioxide emissions compared to Part L 2010.	f 40% reduction in
	No change to 2010	
	40% CO ₂ saving	
	25% CO ₂ saving	
	Something else (please explain below)	
	Don't know	X
	Comments	
	There is a wide range of views across industry ranging from no change to the full 40%.	
2.	Do you agree with the proposal for an 'aggregate' approach to CO_2 homes in 2015? The CO_2 target for any individual dwelling varies dwith which the building can achieve the target, with the overall requiachieved when aggregated over the build mix.	epending on the ease
	Yes X No Don't know	
	Comments	

3.	Do you agree with the proposal for a compliant option based on a consistent recipe of elemental specifications for fabric, services plus an additional CO ₂ saving equivalent to an amount of photovoltaic (PV). Please justify your choice.
	Yes X No Don't know
	Comments
	This would appear to most to be simpler than the English Fuel Factor system.
4.	The main difference between the recipes is the required system efficiency for each fuel, which is appropriate for the heating system type. By adopting this approach to different fuel types, there is no need for a separate fuel factor. Do you agree with the proposed approach?
	Yes x No Don't know
	Comments
	This would appear to most to be simpler than the English Fuel Factor system.
5.	For the CO ₂ savings proposed, are the recipe specifications a sensible way of achieving them? Please justify your choice.
	Yes No Don't know X
	Comments
	Those who agree with the 40% change see the recipe as sensible, but those who disagree with the 40% option do not see the recipe specifications as practicable.
6.	In approaching the selection of the amount of PV to be installed on dwellings, do you prefer?
	Fixed percentage of building foundation area
	Proportion of gross internal floor area with a practical cap
	Don't know
	Comments
	There are a range of views.

	Yes	No	Don't know	
	Comments			
New	non-domes	stic buildin	gs	
12.	regulate ene	rgy efficiency nergy consum	posal for 2013 2014 for non-domestic build separately from low carbon technologies the option (PEC)? Does PEC seem like a reaso	nrough the assessment
	Yes	No X	Don't know	
	Comments			
	These include	de consistenc	e although they differ in their reasons why. by between Welsh and English approaches xibility to reduce costs and practical issues	
13.	Which packa		nd services should be selected: 7% or 10%	5? Please give reasons
	7%			x
	10%			x
	Don't know			
	Comments			
	There are s	upporters for	both the 7% and 10% options.	
14.	Do you fores TER?	ee any partic	ular issues for certain categories of building	g to meet the TPEC or
	Yes X	No	Don't know	
	Comments			
	See the deta		e from the industrial shed sector via	

15.	Which approach should be utilized to incorporate the contribution technologies into the setting of the Target Emission Rate (TER), buildings?			
	Fixed carbon reduction (in kg.CO ₂ /m ² /year)			
	Percentage of roof area of PV			
	Percentage of floor area of PV			
	Other			
	Don't know	x		
	Please give reasons for your choice			
	There is support for each option.			
16.	The proposals explain the Government's preference for a 20% as CO ₂ performance standards for new non-domestic buildings from Which option do you prefer and why?			
	No change			
	Target A: 10% aggregate improvement (1% PV)			
	Target B: 11% aggregate improvement (No PV)			
	Target C: 20% aggregate improvement (5% PV)	X		
	Don't know			
	Please give reasons for your choice			
	From those that gave a view, Target C was the majority view.			
17.	Do the proposed 2013 2014 notional buildings as set out in the changes to the National Calculation Methodology seem like a reasonable basis for standards setting? Please provide comments on the method used to develop the notional buildings and particular elements of one or more of the notional buildings, if relevant.			
	Yes No X Don't know			
	Comments			
	See answer to Q.14 and there are concerns over domestic style non-domestic buildings e.g. small doctors surgeries.			

18.	Do you think that a further recipe should be created for buildings under 250m ² and aligned with the proposed domestic recipe? Are there particular reasons why smaller buildings find compliance with the non-domestic recipes difficult? Please justify your views.
	Yes No Don't know
	Comments
	Essentially members feel that domestic style buildings should be in L1A and small non-domestic treated as noted in Q.14.
19.	Although we recognise that some buildings may need to be serviced in a particular way for legitimate functional or environmental reasons, should Part L incentivise a lower carbon servicing strategy (as with the current Energy Performance Certificate methodology), by basing the notional building on mixed-mode ventilation?
	Yes No Don't know X
	Comments
20.	Do you have any other comments on the proposed changes to Approved Document L2A or the non-domestic National Calculation Methodology? Please make it clear which issue each comment relates to by identifying the relevant paragraph number.
	Comments
	We are unconvinced that a separate Welsh National Calculation Methodology is necessary and it is likely to increase costs.
21.	The Impact Assessment makes a number of assumptions on the costs of fabric/services/renewables, new build rates, etc for new non-domestic buildings. Do you think these assumptions are fair and reasonable? Please justify your views.
	Yes No Don't know X
	Comments

22.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for new non-domestic buildings?					
	Please justify your view and provide alternative evidence if necessary.					
	Yes No Don't know x					
	Comments					
Cun	nulative impact of policies					
23.	Overall, do you think the assessment of the impact on development is broadly fair and reasonable? Please justify your view and provide alternative evidence if necessary.					
	Yes No Don't know X					
	Comments					
Nati	onal Planning Policy Review					
24.	What role should planning play in facilitating higher carbon standards? Should it focus on facilitating site wide energy opportunities that will be needed as we move towards zero or near zero carbon buildings?					
	Views					
	If anyone is to ask for higher standards then it should be through Building Regulations methodology. The concern is that planners do not understand the technical issues.					
25.	What are the implications from future (and regular) changes to the Code for Sustainable Homes and BREEAM on the implementation of the policy?					
	Views					
	Given the uncertain future of the Code for Sustainable Homes we cannot answer this question.					

Are the costs of assessment and certification now disproportionate to the of achieving a minimum sustainable buildings standard level?	costs and benefits
Yes No Don't know x	
Comments	
What should be the role of local planning authorities in setting local standard beyond Building Regulations? How can we ensure there is a level playing across Wales?	
Views	
Local planners should not set local standards. We need a nationally consistent framework.	
What do you see as the positive/negative impacts of removing Part B of the expecting buildings to be certified against Code/BREEAM? Views	ne policy
The Code and BREEAM, whilst not universally supported, did at the very least set a consistent framework and this would be lost.	
Is there a better, alternative, way to rewards and secure sustainable buildi regulatory minimum) other than using national planning policy? What opporthere for future changes to Building Regulations?	
Views	
If local planners are allowed to call for higher standards, then a framework such as the Code for Sustainable Homes or BREEAM is needed.	
To what extent are duplication of standard and approval systems an issue removal of the PfSB policy assist in reducing duplication?	? Would the
·	? Would the

	e some who do not support any standards higher than regulations.
a. la!! al	
ng build	ings
	ree with the proposal to raise performance standards for domestic replace Please explain your answer.
Yes	No Don't know
Comments	;
	ree with the proposal to raise performance standards for domestic exten plain your answer.
Yes	No X Don't know
Comments	
It is felt h	y the majority that the step is too far.
it io ioit b	, the majority that the clop is tee fair.
	ree with the proposal to raise performance standards for non-domestic ? Please explain your answer.
extensions	·
	? Please explain your answer. No Don't know x
extensions Yes	? Please explain your answer. No Don't know x

Do you agree that the exemption for conservatories or porches should be removed where 35. an individual room heat or air conditioning unit is installed? How effective would this change be in limiting energy use/emissions, or are there other ways by which energy performance might be improved where conservatories or porches are installed?

Yes	No	Don't know	X			
Comments						
Do you agr	ee with the pr	oposal to requi	re consequer homes below	ntial improvem / 1000m²? Ple	nents upon extens ease explain your	sions view
Yes X	No 🗌	Don't know				
Comments						
for extens increases association there is main improvem	ions or increated the carbon for membership ajority supposent requirements.	support the pring ased habitable sootprint of the botton the botton the concernents could reduce is a growth	space where uilding. Withins are that co ce the amour	the work in trade nsequential	KS	
upon dome measures d	stic extension omprising a r	s or increases	in habitable s ard of loft insu	space would be	equential improve e limited to a list ater cylinder insul	of
Do you agr	e with this lis	st of measures?				
Should this	list be differe	nt (please expl	ain below)?		X	
Another ap	oroach (pleas	e explain belov	v)			
Don't know						
Comments						
that would required. do not end amounts. stretch to	be fundame There needs I up having to Our calculati a maximum o	nciple should be ntal under a Gre to be a 'deminu take out a Gre ons suggest the of £12 capital sp thumb guide co	een Deal Plar us' rule so tha een Deal Plan at Green Dea oend for each	n should be at home owner for very smal I funding can £1 of annual	rs	

41. Do you agree that there should not be major problems in extending the requirement for consequential improvements for the building control process? If you do foresee issues, what are they and how might these be addressed?

Yes

No

No

42.

43.

44.

45.

Yes No Don't know X	
Comments	
Overall, do you think the impact assessment is a fair and reasonable as potential costs and benefits of the proposed options for consequential in existing homes? Please justify your view and provide alternative eviden	mprovements i
Yes No Don't know X	
Comments	

⁶ A PAS is a Publically Available Specification, and the PAS would set out a quality assurance approach.

53.	Is the newly formatted ADL1B easier to understand and use?
	Yes No Don't know X
	Comments
54.	Are there any further amendments to the newly formatted ADL1B that you would recommend? If so, please provide details.
	Yes No Don't know X
	Comments
55.	How do the consultation proposals impact on the work of Local Authorities and Approved Inspectors? Please give positive and negative impacts.
	Comments
56.	We have asked a number of specific questions. If you have any related issues which we have not specifically addressed, please use this space to report them:
	Please enter here:

#49 - Torfaen County Borough Council

PLANNING & PUBLIC PROTECTION SERVICE GWASANAETH CYNLLUNIO A GWARCHOD Y CYHOEDD Chief Officer/Prif Swyddog Duncan Smith



Your ref/Eich Please Adrian Wilcock cyf: Adrian Wilcock

Our ref/Ein

cyf:

Date/Dyddiad 22nd October 2012

:

Building Regulations Consultation
Construction Unit
Environment & Sustainable Development Directorate
Welsh Government, Rhyd y Car Offices
Merthyr Tydfil
CF48 1UZ

Dear Sir / Madam

RE: 2012 CONSULTATION ON CHANGES TO PART L OF THE BUILDING REGULATIONS

In response to the above consultation I would make the above comments on behalf of the Council's Planning service; noting that the Council's Building Control service have commented separately via the LABC.

The Council supports the Welsh Government's commitment to tackling climate change, sustainable development and the aspiration that all new buildings in Wales should be zero carbon.

The Council also supports the withdrawal of the sustainable buildings planning policy national minimum standard as this is a matter best dealt with by the Building Control rather than the Planning service. It is also agreed that planning should still have a role; both in the master planning of strategic sites and design guidance via Supplementary Planning Guidance through the Local Development Plan. However, there is a concern that meeting any new Part L Standards needs to be addressed early in the design process which may not be the case if the matter is dealt with at the end of the process by building control.

However, the Council's main concern is the timescales for achieving zero carbon in the current economic climate and the likely detrimental effect this will have on securing affordable housing on development sites and the development of employment sites, especially in marginal areas.

We also have concerns that this detrimental effect will be compounded if the proposed new rules on fire sprinklers are also introduced adding to the development costs of a new dwelling.

If the Welsh Government still wishes to deliver on zero carbon by the end of the decade, we suggest that a phased approach to improving energy efficiency is used as hopefully the housing market (and more importantly house prices) improves over time. In viability terms, this would mean that the additional construction costs of improving energy efficiency could be paid for by the increased housing value otherwise the Council would have to reduce the affordable housing or another S106 obligation cost, such as much needed children play and recreation facilities.

Whilst Torfaen has not assessed the impact of introducing code level 4 on affordable housing levels, Newport City Council (and several other local planning authorities) have in their recent Affordable Housing Viability Study; the result of which, evidence the above concerns. These studies also show that introducing code level 4 dwellings would have a greater effect in areas of lower new house values, possibly even making new house building uneconomic in some areas of the Heads of the Valleys.

Finally, please do not hesitate to contact me if you require any further information.

Yours faithfully

A. Wilcock

Adrian Wilcock
PRINCIPAL PLANNER
FORWARD PLANNING

2012 consultation on changes to the

Building Regulations in Wales

Part L (Conservation of fuel and power)

	•	1 /
	ultation onse Form	Your name: Emma Thomas
		Organisation (if applicable): Wales Low Zero Carbon Hub
(xxv)		expressed on this consultation an official response from the ou represent or your own personal views?
	Organisational	x Personal Views
(xxvi)	•	s expressed on this consultation in connection with your membership iny group? If yes please state name of group:
	Yes No	
	Name of group:	

(xxvii) Please tick the one box that best describes your organisation:

Builders/Developers: Builder / Main contractor: Builder/ Small builder: (extensions/repairs/maintenance Installer/ special sub-contractor Commercial developer House builder	 Property Management: Housing association (registered social landlord) Residential landlord, private sector Commercial Public sector	
Building occupier:	Building Control Bodies:	
Home owner	Local authority building control	
Tenant (residential)	Approved Inspector	
Commercial Building		
Energy Sector	Fire and Rescue Authority	

(vii) Would you be happy for us to contact you again in relation to this consultation?

4	$\Delta \Delta$	
1	ZU	

Yes	х	No	
	٠,		

WG will process any personal information that you provide us with in accordance with the data protection principles in the Data Protection Act 1998. In particular, we shall protect all responses containing personal information by means of all appropriate technical security measures and ensure that they are only accessible to those with an operational need to see them. You should, however, be aware that as a public body, the Welsh Government is subject to the requirements of the Freedom of Information Act 2000, and may receive requests for all responses to this consultation. If such requests are received we shall take all steps to anonymise responses that we disclose, by stripping them of the specifically personal data – name and e-mail address – you supply in responding to this consultation. If, however, you consider that any of the responses that you provide to this survey would be likely to identify you irrespective of the removal of your overt personal data, then we should be grateful if you would indicate that, and the likely reasons, in your response, for example in the relevant comments box.

Questions:

New homes

1.	Do you agree with the Government's preference for a CO ₂ saving carbon dioxide emissions compared to Part L 2010.	of 40% reduction in
	No change to 2010	
	40% CO ₂ saving	х
	25% CO ₂ saving	
	Something else (please explain below)	
	Don't know	
	Comments	

Although the target for new homes is challenging, it is the feeling of this body that the Government must put steps into place to tackle climate change. There are concerns however, that the use of micro generation of renewable energy is neither the most efficient or cost effective method. The use of the energy hierarchy is welcomed and supported to deliver improved carbon reduction targets. Steps should be taken as soon as practicable by the WG to inform industry where the remanding carbon reduction savings will be realised to achieve the 2018 recast EPBD, a clear vision on the mechanism of Allowable Solutions or whatever mechanism the WG choose to deliver these additional savings.

Although we welcome the recipe approach for each individual fuel type, we must express concerns that the removal of the fuel factor and the setting of challenging standards concurrently will be both challenging and costly to the industry. Historically, the use of fuel factors has delivered solutions to low carbon housing which are neither "low carbon" or user friendly. The need to

	the CO_2 savings proposed, are the recipe specifications a sensible way of act n? Please justify your choice.
Υє	es x No Don't know
С	omments
6 0 0 1 1 1	To deliver the CO2 savings expressed in the consultation there is no other way to achieve them other than the use of renewable energy. We would reiterate our earlier comments that the use of micro generation is neither the most efficient or effective way of reducing CO2. The use of many smaller networks will in many asses only deliver electricity when the home owner is not there and the neffective exportation of energy to the grid be the resulting outcome. Additional costs may be incurred by this route with the need to strengthen the local grid to ensure it has the capacity to safely deal with the generated energy. Benewable energy generation should be left to the macro level and used at ource, or stored to be used later when the residents return.
pr	efer?
pr Fi	approaching the selection of the amount of PV to be installed on dwellings, doeser? Red percentage of building foundation area Oportion of gross internal floor area with a practical cap

the design and configuration of larger properties, resulting in bland and featureless developments. It is important that the Planning system is engaged at the earliest date to ensure that they recognise and allow good orientation and build form, the current focus is set on "Place and Build Line" all of which do not always allow the most appropriate solution to low carbon buildings to be used.

manufacturers to provide more energy efficient materials at a more realistic price. Current manufacturers will in the future have a monopoly of the market should the backstops be reduced further, we feel that this would be neither

healthy for the industry or the economy.

2012 consultation on changes to the Building Regulations in Wales Part L (Conservation of fuel and power) I 123

New non-domestic buildings

0,	ciency separat	ely from low ca	rbon technolo	ogies through t	to explicitly regulate he assessment of able basis for standa
Yes x	No 🗌	Don't know			
Comments					
		the EPBD and the stry to accept its u		market is the mos	t
the fabric of use of energ improvemer	non domestic bu y efficient servic	esulted in there be uildings, it is there es and generation the buildings are in propriate.	fore more appr are the method	opriate that the d of subsequent	in
Which pack	_	and services sh	ould be seled	oted: 7% or 109	%? Please give reas
7%					
7% 10%					
10%					x
					x
10%					x
10% Don't know Comments The setting of change to the	ne Building Regul	It 10% above Part ations is the last a re time designing e	nd will allow in	dustry and	
10% Don't know Comments The setting of change to the manufacture Although we we will feel both used o	ne Building Regulers to spend mores support the use it should introdur/and stored at t	ations is the last a	nd will allow in energy efficient ergy on non- do to demonstrat ition through ei	dustry and buildings. mestic buildings, e that it will be ther energy store	is

Do you foresee any particular issues for certain categories of building to meet the TPEC or TER? 14.

Please give reasons for your choice

	being the last change to Part L. With current technologies, understanding and materials, this should be welcomed.	
	With the revised introduction of the proposed measures by the Welsh Ministers, to set a standard other than the 20% is not logical. If a lower standard was set as the requirement the WG and industry would have to consider another change almost as soon as the requirement is bought in during 2015 to meet the long stop date set out in the re cast EPBD. The monies that would have to be spent by the WG to undertake this process again would be better used providing guidance and help to industry to deliver low carbon buildings in a more efficient way.	
17.	Do the proposed 2013 notional buildings as set out in the changes to the Calculation Methodology seem like a reasonable basis for standards see provide comments on the method used to develop the notional buildings elements of one or more of the notional buildings, if relevant.	tting? Please
	Yes x No Don't know	
	Comments	
	Do you think that a further recipe should be created for buildings under 2 with the proposed domestic recipe? Are there particular reasons why smacompliance with the non-domestic recipes difficult? Please justify your vie	aller buildings find
	Yes No Don't know	
	Comments	
	To set a recipe for a building given a notional size is not in our opinion the most sensible approach; a more reasonable approach would be set the recipe based on activity and function of that building. Just because a building is small does not mean in reality that it is simple, but the complexity of any building is set by its function and activities undertaken within it.	
	The recipe approach does however, have difficulties with the use of FEES, the balance of U values, size, bridging, air tightness and build forms is not easily proscribed, and would potentially result in bland featureless structures, in the desire to be simpler.	

We would also express concern that the recipe approach is not potentially the most cost effective or efficient approach to delivering low carbon buildings.

20.

21.

22.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for new non-domestic buildings?					
	Please justify your view and provide alternative evidence if necessary.					
	Yes No Don't know x					
	Comments					
Cun	nulative impact of policies					
23.	Overall, do you think the assessment of the impact on development is broadly fair and reasonable? Please justify your view and provide alternative evidence if necessary.					
	Yes No Don't know					
	Comments					
	The impact of development on the environment needs to be addressed, the impact on built environment will be a positive effect. The amendment to Part L for those able to change and innovate will be an opportunity, a long term economic opportunity for the Welsh construction industry take a lead on low carbon construction.					
Nati	onal Planning Policy Review					
24.	What role should planning play in facilitating higher carbon standards? Should it focus on facilitating site wide energy opportunities that will be needed as we move towards zero or near zero carbon buildings?					
	Views					
	The role of Planning should be set on ensuring any opportunities for side wide solutions are not lost. It should focus, with the help of Building Control, on the most cost effective and efficient options being put forward, and submitted for approval.					
	Planning Departments need to be educated in the process of delivering low carbon buildings and site wide energy solutions, the current interpretation of Planning and the requirement for low carbon buildings are not compatible					

25. What are the implications from future (and regular) changes to the Code for Sustainable Homes and BREEAM on the implementation of the policy?

Views

The use of the Code and BREEAM should be recognised for what they are designed to deliver, namely a route map to future changes and above regulation requirements. Many aspects of the mechanisms have delivered quantifiable improvements to the built environment, and the removal of any such standards needs careful consideration.

The WG and Westminster have historically aligned. The need for additional and differing sustainability standards should be approached cautiously. Sustainability considerations may be best suited to the Planning system and not the Building Regulations. To deliver sustainability as part of the Building Regulations has been demonstrated by the Scottish Parliament as ineffective. It resulted in a standard so weak as to prove pointless. The only other way to deliver sustainability via the Building Regulations would prove too prescriptive and negate innovation.

The WG currently holds a position as the most sustainable. The removal of independent certification of sustainability may not be the best approach to improve or maintain this position.

26.	Are the costs of assessment and certification now disproportionate to the costs and benefit of achieving a minimum sustainable buildings standard level?					
	Yes	No x	Don't know			

Comments

The costs of certification and assessment are minimal compared to the benefits delivered. We should be addressing the cost of poor design, ineffective solutions put forward by design teams and poor construction. There are many examples across Wales where both BREEAM and the Code for Sustainable Homes, when considered at the outset cost no more than Building Regulation compliant solutions. Often, high costs on investigation are as a result of poor design, poor construction or the late consideration of both standards resulting in a green washing of buildings, or the nonsensical chase for inappropriate credits.

Should the WG desire to set sustainability standards there is no practical reason why they should not set an independent mechanism for doing so themselves, which they would be in control of any future changes or amendments, rather than just aligning to an English standard.

27. What should be the role of local planning authorities in setting local standards above and beyond Building Regulations? How can we ensure there is a level playing field of standards across Wales?

Views

The role of Planning is to set requirements at a Master Plan and macro level to ensure that developments are linked to existing infrastructure and facilities. The setting of practical standards and requirements at National Level has removed the confusion experienced in England where LA's have historically resorted to one upmanship in setting standards.

Clear parameters and guidance set out at national level will deliver a more cohesive and logical approach to sustainability, without removing the facility for LA's to set higher standards if it sees fit through the existing framework of LDP and SPG's.

28. What do you see as the positive/negative impacts of removing Part B of the policy expecting buildings to be certified against Code/BREEAM?

Views

The effects of removing the standards will result in confusion and local interpretation of standards; the National Parks in Wales are a good example of the likely outcomes. The setting of the standards, albeit with a need to align with more Welsh issues rather than adopting an English standard will help to ensure that the sustainability is considered at the outset rather than as an afterthought, to remove the requirement could be a backward step for industry and the environment.

The cost of delivering both standards in the most effective way is minimal. Often cost predictions of achieving the Code/BREEAM often factor in the additional cost of the Assessors or other sustainability consultant's advice and guidance on delivering the standard. This is no different to any other learning rate that will be experienced in the Building Regulations, and has been factored into the WG RIA. Once this lesson is learnt the cost of learning reduces, the cost of not delivering sustainability cannot be reduced by the environment at a later date.

29. Is there a better, alternative, way to rewards and secure sustainable buildings (above the regulatory minimum) other than using national planning policy? What opportunities are there for future changes to Building Regulations?

Views

The Building Regulations should focus on the role it is designed to deliver. Sustainability can be delivered in a number of ways taking a more holistic approach than any prescription in the Building Regulations. The Scottish example is a clear indication of the ineffectiveness of trying to use a mechanism that was designed for one function subsequently trying to deliver another function. It clearly results in an ineffective prescriptive standard which does little deliver sustainability or guidance.

30. To what extent are duplication of standard and approval systems an issue? Would the removal of the PfSB policy assist in reducing duplication?

Views

Any duplication should be factored out by the creation of a sustainability standard that considers all the systems. The situation has been created by the adoption of an existing standard. The duplication could be removed through the creation of a standard that was tailored to the Welsh environment.

There is more confusion over delivering low carbon buildings and endeavouring to obtain Planning permission than the use of the PfSB policy.

To remove the standards does not sit comfortably with the issues over Climate Change and the wider sustainability agenda that until now the WG has been a strong advocate for.

This may be construed that the first time that the WG has control over the Built Environment it is seen to back track on its standards.

31. What opportunities are there for higher standards to be delivered on strategic sites identified as part of the Local Development Plan?

Views

This mechanism has always been in place, and is not seen to be anything new. The delivery of higher standards at the strategic level is welcomed, but it has only been delayed by the lack of progress at local level to deliver robust UDP's and LDP policies.

The LA's should concentrate on ensuring opportunities for site wide solutions in the energy reduction delivery sector are not lost, and that guidance is produced for Planning Officers on the principles of low carbon buildings and how these principles affect the build form and orientation of any new buildings.

EXIS	sting buildi	ngs				
32.	Do you agree with the proposal to raise performance standards for domestic replacement windows? Please explain your answer.					
	Yes x	No 🗌	Don't know			

Comments

The existing stock is the main opportunity in Wales to tackle climate change and deliver carbon reduction targets; data suggests that the delivery of replacement windows is undertaken at a significant level in Wales. The added advantage of this increased standard is that the demand for replacement windows is customer driven rather than regulatory enforced, and will ensure over a relatively short period that reductions in carbon will be delivered across Wales.

It should also be noted that currently within the replacement window market there is no requirement or standard to improve the thermal bridging at the connection of the window frame to the existing building, this lack of a standard or requirement results in a significant drop in the performance of a window. It is a clear recommendation from this body that the WG takes urgent steps to start the process for introducing this requirement, discussions with FENSA and other glazing organisations should commence as soon as practicable.

33.	Do you agree with the proposal to raise performance standards for domestic extensions?
	Please explain your answer.

Yes x	No	Don't know	
-------	----	------------	--

Comments

The improvement to the standards for extension in Wales is essential if Wales is to deliver its carbon reduction targets.

There are as many extensions constructed in Wales as new build properties. With the current economic situation residents are more likely to stay in their properties and extend rather than move on.

Any requirement for improved standards to extensions should reflect the capabilities of the industry that will deliver them and the ability or typical construction in Wales to achieve them. This is demonstrated in the consultation document, should the standards be set any higher then we feel that this would significantly increase costs and reduce the number of extensions constructed, in turn impacting on the level of construction activity affecting an already under pressure industry.

_	le proposal to raise performance standards for non-domestic extensions n your answer.
Yes x	No Don't know
Comments	
1	e non domestic sector are more widespread than new build non ings in Wales and offer a one off chance to improve standards.
are often lar	ndicates that in many cases extensions to non domestic buildings in than the original buildings and therefore this significant increase and must be tackled and improved if the WG is too meet its carbon ets.
an individua be in limiting	that the exemption for conservatories or porches should be removed when the conditioning unit is installed? How effective would this content of the conservatories or porches are installed?
Yes	No Don't know x
Comments	
current syste	of the industry that is historically difficult to legislate for, the of exempting a conservatory as it will not be heated results in the exemption certificate without ever visiting the property. This is

successful delivery of the original intention not to heat or cool the space.

In the eventuality of there being no fixed heating or cooling in the extension at the point of construction, there is no mechanism for ensuring that any future heating system expansion is not considered for the extension or the use of portable heating or cooling units.

This body feels that a mechanism for checking this anomaly should be considered, that is along the lines of an occupation certificate being required for all extensions regardless of heating or cooling and that there is a mechanism for a 1 year on inspection of extensions to ascertain actual performance. Although we recognise that this may be problematic, this area of construction is one of the most difficult areas to regulate, but must however be tackled.

Yes x	No	Don't know				
Comments						
opportunitie many extens	es for improver sions are large	ways been set too ment being lost in r than the initial b pportunity to be a	the past. As refoulding and this	ferred to pre	eviously	
		in the consultatio ant reductions in (-		
upon domes measures c	stic extension omprising a	ns that the regu ns or increases minimum stand avity wall insula	s in habitable dard of loft ins	space wo	uld be limit	ed to a list o
Do you agre	e with this li	ist of measures	?		х	
Should this	list be differe	ent (please exp	olain below)?			
Another app	oroach (pleas	se explain belo	ow)			
Don't know						
Comments						
do however risks of inap	feel that given propriate cavity e requirements	sed offers a pragr the issues in Wal y filling well docu s for when and ho	es regarding hig mented, clearer	gh exposure guidance sh	and the nould be	
			ncorrect assess	ment as the	,	

38. WI	nat effect do you think the requirements for consequential improvements demand for repair, maintenance and improvement activity? Please use your answer.	
	Increase demand	
	Reduce demand x	
	No effect	
	Don't know	
	Comments	
	With the introduction of any new requirement there are two likely scenarios, there will either be a rush before legislation to get in before the new rules or there will be an initial down turn in activity. It is important that the WG produce guidance and support on the reasoning for the need for CI and the mechanisms that exist to support the cost of the additional requirements, (ECO, Green Deal or other). As the setting of the CI will fall on the BCB this is the mechanism best suited to deliver the advice and guidance, therefore before any new standard is introduced the WG should take steps to ensure that the right support mechanism is in place to deliver the requirement.	
39.	Do you agree with the proposal to introduce consequential improvement or increases in habitable space in non-domestic buildings under 1000m your view. Yes	

42. Do you have any other comments on the proposed changes to Approved Document L1B? Please make it clear which issue each comment relates to by identifying the relevant paragraph number.

47.

50.	Would any other approach be likely to prove more effective instead (such approach).	as a PAS ⁷ type
	Yes x No Don't know	
	Comments	
	The production of a PAS may prove useful but it would be necessary to ensure that it was SME friendly, in the past standards such as these have been produced that are difficult to implement or follow.	
	As England are in the process of delivering such a standard and the CPA are currently working on a similar approach it would be beneficial for the WG to be part of these discussions and adopt a process that is suited to the SME and self build market in Wales.	
51a.	Would it be preferable for buildings of a domestic nature to be able to ac through applying the recipe in AD L1A, in acknowledgement of the dome buildings, rather than demonstrating compliance with AD L2A? Yes No x Don't know	
	Comments	
	We feel that there is no real benefit to the "domestic in character" non domestic buildings taking this approach, as we do not feel it is the most cost effective or appropriate mechanism for delivering a low carbon building where there is the presence of a design team.	
51b.	What are the arguments for and against this approach?	
	Comments	
	As stated previously the recipe is neither cost effective or the most efficient process for deliver low carbon buildings, but in its defence it is simpler and easier to understand.	
	It does not however remove the requirement to assess over heating risk so the benefits are limited to the small house builder. We feel that the WG should be very clear in its guidance that the recipe approach is neither the cheapest or the most cost effective way of meeting the requirements.	

 $^{^{7}}$ A PAS is a Publically Available Specification, and the PAS would set out a quality assurance approach.

in

way of demons form buildings, building that is use of a Dynam	strating comp , and non con either compl nic Simulation	tool is inappropria liance. It should b nplex buildings sho ex in form or funct Model, there shoulex building DSM.	e a requirement: uld be assessed tion should be de	s that only simp using SBEM. Ar esigned with the	le ny
res x	No 🗍	Don't know			
Comments		DOIT KNOW			

Comments

55.	How do the consultation proposals impact on the work of Local Authorities and Approved
	Inspectors? Please give positive and negative impacts.

Comments

The whole issue of BCB in Wales needs reviewing and the level of service provided by both considered. At the moment there is one set of Building Regulations but the bodies responsible for delivering compliance have inequitable requirements set upon them, the rules covering both bodies should be aligned and levelled.

The service provision from both bodies should be equitable with the level of fees allowed published by both or neither. There needs to be a root and branch review of how the Building Regulations are implemented in Wales as currently the level of service and expertise is not equitable.

The role of BCB's has been inherited, and there now is the opportunity to create a level playing field in Wales.

56. We have asked a number of specific questions. If you have any related issues which we have not specifically addressed, please use this space to report them:

Please enter here:

#51 - FGMA (Flat Glass Manufacturers Association)

2012 consultation on changes to the

Building Regulations in Wales

Part	L (Conserva	ation of fuel and power)	
	ultation onse Form	Your name: Alain Skelding	
		Organisation (if applicable): FGMA (Flat Glass Manufacturers Association)	
(xxix)		expressed on this consultation an official response from the you represent or your own personal views?	ıe
	Organisational	X Personal Views	
(xxx)	-	s expressed on this consultation in connection with your many group? If yes please state name of group:	embership
	Yes No		
	Name of group:	:	

(xxxi) Please tick the one box that best describes your organisation:

Desig	ners/Engineers/Surveyor	s:	Specific Interest:	
Archite	ect		Competent person scheme operator	
Civil/S	tructural engineer		National representative or trade	
Buildin	ng services engineer		body	X
Survey	yor		Professional body or institution	
			Research/ academic organisation	
Manuf	facturer/ Supply Chain		Other (please specify)	
(xxxii)	Please tick the <i>one</i> box v	which best desc	cribes the size of your or your o	rganisation's
	Micro - typically 0 to 9 full-	time or equivale	nt employees (incl. sole traders)	x
	Small – typically 10 to 49 f	ull-time or equiv	alent employees	
	Medium – typically 50 to 2	49 full-time or ed	quivalent employees	
	Large - typically 250+ full-	time or equivale	nt employees	
	**		ers of associations represented ses to multi-national companies.	
(vi)	Are you or your organisa	ation a member	of a competent person scheme	?
	Yes No x			
	Name of scheme:			

162 X INO	Yes	Х	No	
---------------	-----	---	----	--

WG will process any personal information that you provide us with in accordance with the data protection principles in the Data Protection Act 1998. In particular, we shall protect all responses containing personal information by means of all appropriate technical security measures and ensure that they are only accessible to those with an operational need to see them. You should, however, be aware that as a public body, the Welsh Government is subject to the requirements of the Freedom of Information Act 2000, and may receive requests for all responses to this consultation. If such requests are received we shall take all steps to anonymise responses that we disclose, by stripping them of the specifically personal data – name and e-mail address – you supply in responding to this consultation. If, however, you consider that any of the responses that you provide to this survey would be likely to identify you irrespective of the removal of your overt personal data, then we should be grateful if you would indicate that, and the likely reasons, in your response, for example in the relevant comments box.

Questions:

New homes

1.	Do you agree with the Government's preference for a CO ₂ saving or carbon dioxide emissions compared to Part L 2010.	f 40% reduction in
	No change to 2010	
	40% CO ₂ saving	X
	25% CO ₂ saving	
	Something else (please explain below)	
	Don't know	
	Comments	
	40% preferred, so as to avoid a more dramatic change when zero carbon standards are introduced in future revisions.	

2. Do you agree with the proposal for an 'aggregate' approach to CO₂ target setting for new homes in 2015? The CO₂ target for any individual dwelling varies depending on the ease with which the building can achieve the target, with the overall required CO₂ saving achieved when aggregated over the build mix.

elemental s	ee with the propos pecifications for fa hotovoltaic (PV).	abric, servicės į	olus an additic		
Yes X	No Do	on't know			
Comments					
) maintenance-fre		nergy-efficient		
	nt of renewable er				
in the eve repaired.		nergy supply fa	iling, under-pe	erforming or b	eing

5. For the CO₂ savings proposed, are the recipe specifications a sensible way of achieving

Yes	No	Don't know		
Commer	nts			
Answer	as above Q	10		
non-do	mestic bui	ldings		
energy e	efficiency sep	e proposal for 2013 for r arately from low carbon Imption (PEC)? Does P	technologies through t	the assessment of
Yes	No x	Don't know		
Commer	nts			
introduc		en in our comments on C EC creates burdens on ate benefit.		s, Please give reasons
for your	choice.			Piease give reasons
7%				
10%				Х
Don't kno	ow			
Commer	nts			
without importa minimis so that habitab	renewables ant to maximise the reliance the building reliance the building reliance in the ever	option which achieves 1 (table 3.3 in the Consult se the savings through the on energy supply (wheremains energy-efficient of the energy supply struption or lack of maintenance.	tation Document). It is the building fabric, and ether renewable or not; t, comfortable and system under-performir),
Do you for TER?	oresee any p	articular issues for certa	ain categories of buildir	ng to meet the TPEC or
Yes	No	Don't know X		
Commer	nts			
Not aug	lified to com	ment		

Commer	nts						
l	on-dwelling: truction.	s are likely to	be domes	tic in chara	cter and fo	rm	
egitimate ervicing	functional o strategy (as	r environmer	ntal reasons ent Energy	s, should P Performan	art L incent	tivise a	particular way for lower carbon thodology), by
Yes	No _] Don't	know X				
Commer	nts						
No com	nment						
Do you h	nave any oth domestic Na		ation Metho	odology? P	Please make	•	d Document L2A o ar which issue ea
Do you h	nave any oth domestic Na t relates to b	tional Calcul	ation Metho	odology? P	Please make	•	
Do you he the non-comment Comment The contract the contra	nave any oth domestic Na it relates to b nts mments we	tional Calcul	ation Methor the relevant wer to Q9 a	odology? P nt paragrap and Q12 ap	Please make oh number.	e it clea	
Do you he the non-comment of the control of the unit of the lmp renewable.	nave any oth domestic Na it relates to b ints mments we ateral introd	tional Calcul by identifying made in answ uction of the	ation Methors the relevant wer to Q9 a BPEC crite number of for new nor	odology? For the paragraph odd Q12 apperion. If assumption-domestic	Please make oh number. Oply equally ons on the o	to	ar which issue ea
Do you he the non-comment of the control of the unit of the lmp renewable.	nave any oth domestic Na it relates to b ints mments we ateral introd	made in answuction of the	wer to Q9 a BPEC crite number of for new nor ble? Pleas	odology? For the paragraph odd Q12 apperion. If assumption-domestic	Please make oh number. Oply equally ons on the o	to	ar which issue ea

22. Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for new non-domestic buildings?

Please justify your view and provide alternative evidence	e if necessary.
Yes No Don't know X	
Comments	
nulative impact of policies	
Overall, do you think the assessment of the impact on or reasonable? Please justify your view and provide altern	
Yes No Don't know x	
Comments	
and Dianning Delicy Pavious	
onal Planning Policy Review	
What role should planning play in facilitating higher carb facilitating site wide energy opportunities that will be near zero carbon buildings?	
Views	
Planning should play no role. Building Regulations ald determine the appropriate standards for energy efficients.	ency in
buildings. Please keep administrative procedures and	nurdies to a
What are the implications from future (and regular) char	
Homes and BREEAM on the implementation of the police	cy?
Views	
Again, Building Regulations should be the mechanism be sufficient.	n, and should
Are the costs of assessment and certification now dispr	apartianata to the casts and hanof
of achieving a minimum sustainable buildings standard	•

Vhat should be the role of local planning authorities in setting local standards above eyond Building Regulations? How can we ensure there is a level playing field of stacross Wales?
eyond Building Regulations? How can we ensure there is a level playing field of sta
liews liews
As in our answer to Q24, energy efficiency in buildings should be a matter for Building Regulations alone.
What do you see as the positive/negative impacts of removing Part B of the policy xpecting buildings to be certified against Code/BREEAM?
ïews
s there a better, alternative, way to rewards and secure sustainable buildings (above egulatory minimum) other than using national planning policy? What opportunities a nere for future changes to Building Regulations?
liews liews
o what extent are duplication of standard and approval systems an issue? Would the moval of the PfSB policy assist in reducing duplication?
liews
What opportunities are there for higher standards to be delivered on strategic sites dentified as part of the Local Development Plan?
liews .

Existing buildings

.

32.	Do you agree with the proposal to raise performance standards for domestic replacement windows? Please explain your answer.
	Yes No Don't know X
	Comments
33.	The question asks if we agree with the proposal to raise standards, but the Consultation Document proposes no change in standards! It is therefore inconsistent with the content of the Consultation Document. WER B and 1.4 should be introduced but there should be a target of A & 1.2. Windows are available that achieve B or 1.4 and many installation achieve WERs of B & A. No new technology is required, as the products offering this performance (and better) are readily available. No change to window performance values goes against the stated ambition of the Welsh Government to have the tightest approach to building standards, Section 2.3 Para 26 of the document: Current analysis indicates some potential to further raise performance standards for extensions and replacement windows and potential improvements in controlled services like non-domestic lighting' we do not wish to see any divergence in standards and implementation dates in the requirements for England and Wales. Such differing requirements would increase glass and window product specifications, resulting in
	Yes X No Don't know
	Comments
	The standards required for extensions should be the same as for new build to simplify the supply chain.
34.	Do you agree with the proposal to raise performance standards for non-domestic extensions? Please explain your answer.
	Yes X No Don't know
	Comments
	The standards required for extensions should be the same as for new build to simplify the supply chain.

35. Do you agree that the exemption for conservatories or porches should be removed where an individual room heat or air conditioning unit is installed? How effective would this change

explain your answer.

41. Do you agree that there should not be major problems in extending the requirement for consequential improvements for the building control process? If you do foresee issues, what are they and how might these be addressed?

Windows and glazing not in the IA, so we cannot comment.

⁸ A PAS is a Publically Available Specification, and the PAS would set out a quality assurance approach.

Yes	No	Don't know			
Commen	ts				
through a	pplying the re	ecipe in AD L1A, in a	omestic nature to be acknowledgement of liance with AD L2A?	f the domes	
Yes x	No	Don't know			
Commen	ts				
See com	nment in 51b				
What are	the argumen	ts for and against th	is approach?		
Commen	ts	-			
	ning, so the d	-style non dwellings welling fabric stand			
		uggestions for addro	essing compliance a	and perform	ance issues in
Commen	ts				
Is the new	vly formatted	ADL1B easier to ur	derstand and use?		
Yes x	No	Don't know			
Commen	ts				

	Are there any further amendments to the newly formatted ADL1B that you would recommend? If so, please provide details.
	Yes No Don't know X
	Comments
	How do the consultation proposals impact on the work of Local Authorities and Approved Inspectors? Please give positive and negative impacts.
	Comments
	We have asked a number of specific questions. If you have any related issues which we have not specifically addressed, please use this space to report them:
	Please enter here:
	We want to see a Fabric First approach – improve the building then add on all the other enhancements.
Į	

#54 - David Jones

2012 consultation on changes to the

Building Regulations in Wales

Part L (Conserv	ation of fu	el and power)
Minor amendments	indicated in r	ed
Consultation Response Form	Your name:	David Jones C Eng M.I.C.E.
		ssed on this consultation an official response from the tor your own personal views?
Organisational	Persona	al Views

Are your views expressed on this consultation in connection with your (xxxiv) membership or support of any group? If yes please state name of group: No Yes Name of group:

(xxxv) Please tick the one box that best describes your organisation:

Builders/Developers:	Property Management:
Builder / Main contractor:	Housing association (registered social landlord)
Builder/ Small builder: (extensions/repairs/maintenance, etc)	Residential landlord, private sector
Installer/ special sub-contractor Commercial developer	Commercial
House builder	Public sector

Building occupier: Home owner Tenant (residential) Commercial Building	Building Control Bodies: Local authority building control Approved Inspector
Energy Sector	Fire and Rescue Authority
Designers/Engineers/Surveyors:	Specific Interest:
Architect Civil/Structural engineer Building services engineer Surveyor	Competent person scheme operator National representative or trade body Professional body or institution Research/ academic organisation

Manufacturer/ Supply Chain		Other (please specify)			
(xxxvi	i) Please tick the <i>one</i> box which besorganisation's business?	st describes the size of your or your			
	Micro – typically 0 to 9 full-time or equivalent employees (incl. sole traders)				
	Small – typically 10 to 49 full-time or equivalent employees				
	Medium – typically 50 to 249 full-time or ed	quivalent employees			
	Large – typically 250+ full-time or equivale	nt employees			
	None of the above (please specify)				
(vi)	Are you or your organisation a member	of a competent person scheme?			
	Yes No				
	Name of scheme:				
(vii)	Would you be happy for us to contact y consultation?	ou again in relation to this			
	Yes No				

WG will process any personal information that you provide us with in accordance with the data protection principles in the Data Protection Act 1998. In particular, we shall protect all responses containing personal information by means of all appropriate technical security measures and ensure that they are only accessible to those with an operational need to see them. You should, however, be aware that as a public body, the Welsh Government is subject to the requirements of the Freedom of Information Act 2000, and may receive requests for all responses to this consultation. If such requests are received we shall take all steps to anonymise responses that we disclose, by stripping them of the specifically personal data – name and e-mail address – you supply in responding to this consultation. If, however, you consider that any of the responses that

you provide to this survey would be likely to identify you irrespective of the removal of your overt personal data, then we should be grateful if you would indicate that, and the likely reasons, in your response, for example in the relevant comments box.

Questions:

New homes

1.	Do you agree with the Government's preference for a CO ₂ saving of 40% reduction carbon dioxide emissions compared to Part L 2010.				
	No change to 2010				
	40% CO ₂ saving				
	25% CO ₂ saving				
	Something else (please explain below)				
	Don't know				
	Comments				
	Incorporate fabric requirements only without requirement for PV or equivalent				
2.	Do you agree with the proposal for an 'aggregate' approach to CO ₂ targe homes in 2015? The CO ₂ target for any individual dwelling varies depend with which the building can achieve the target, with the overall required C achieved when aggregated over the build mix.	ling on the ease			
	Yes No Don't know				
	Comments				
	None				

3.	elemental specifications for fabric, services plus an additional CO ₂ saving equivalent to an amount of photovoltaic (PV). Please justify your choice.
Comr	Yes No Don't know nents
	As noted above just fabric with no additional PV or equivalent. PV is at present still a very expensive way to reduce carbon and only sustained by FIT although in fact decreasing. The FIT in turn is supported by a levy on all utility customers. The poor are in effect subsidizing the rich who can afford the cost of initial installation. PV technology and other renewable technologies are changing but it will take some years for the MCS system to catch up when new technologies are introduced in UK.
4.	The main difference between the recipes is the required system efficiency for each fuel, which is appropriate for the heating system type. By adopting this approach to different fuel types, there is no need for a separate fuel factor. Do you agree with the proposed approach? Yes No Don't know Comments
	None
	For the CO ₂ savings proposed, are the recipe specifications a sensible way of achieving hem? Please justify your choice.
	Yes No Don't know
	Comments
	None

10.	The Impact Assessment makes a number of assumptions on fabric/services/ renewables costs, new build rates, phase-in rates, learning rates, etc for new homes. Do you think these assumptions are fair and reasonable? Please justify your views.			
	Yes No Don't know			
	Comments			
	None			
11.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for new homes? Please justify your view and provide alternative evidence if necessary.			
	Yes No Don't know			
	Comments			
	None			
New 12.	non-domestic buildings Do you agree with the proposal for 2013 2014 for non-domestic buildings to explicitly			
12.	Do you agree with the proposal for 2013 2014 for non-domestic buildings to explicitly regulate energy efficiency separately from low carbon technologies through the assessment of primary energy consumption (PEC)? Does PEC seem like a reasonable basis for standard setting?			
	Yes No Don't know			
	Comments			
	None			
13.	Which package of fabric and services should be selected: 7% or 10%? Please give reasons for your choice.			
	7%			
	10%			
	Don't know			
	Comments			

	Please give reasons for your choice
	No PV for reasons indicated previously. PV technology changing, MCS system needs time to assimilate changes eg BIPV
17.	Do the proposed 2013 2014 notional buildings as set out in the changes to the National Calculation Methodology seem like a reasonable basis for standards setting? Please provide comments on the method used to develop the notional buildings and particular elements of one or more of the notional buildings, if relevant.
	Yes No Don't know
	Comments
	None
18.	Do you think that a further recipe should be created for buildings under 250m ² and aligned with the proposed domestic recipe? Are there particular reasons why smaller buildings find compliance with the non-domestic recipes difficult? Please justify your views.
	Yes No Don't know
	Comments
	None
19.	Although we recognise that some buildings may need to be serviced in a particular way for legitimate functional or environmental reasons, should Part L incentivise a lower carbon servicing strategy (as with the current Energy Performance Certificate methodology), by basing the notional building on mixed-mode ventilation?

Yes	No	Don't know
Comments		
None		

20.	Do you have any other comments on the proposed changes to Approved Document L2A or the non-domestic National Calculation Methodology? Please make it clear which issue each comment relates to by identifying the relevant paragraph number.
	Comments
	None
21.	The Impact Assessment makes a number of assumptions on the costs of fabric/services/renewables, new build rates, etc for new non-domestic buildings. Do you think these assumptions are fair and reasonable? Please justify your views.
	Yes No Don't know
	Comments
	None
22.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for new non-domestic buildings?
	Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know
	Comments
	None
Cum	nulative impact of policies
23.	Overall, do you think the assessment of the impact on development is broadly fair and reasonable? Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know
	Comments
	None

National Planning Policy Review

4.	What role should planning play in facilitating higher carbon standards? Should it focus on facilitating site wide energy opportunities that will be needed as we move towards zero or near zero carbon buildings?
	Views
	None
5.	What are the implications from future (and regular) changes to the Code for Sustainable Homes and BREEAM on the implementation of the policy?
	Views
	None
	Are the costs of assessment and certification now disproportionate to the costs and benefits of achieving a minimum sustainable buildings standard level?
	Yes No Don't know Comments
	This is clearly illustrated in the impact assessment. Only the mechanism of carbon pricing makes further fabric improvement viable and hence the costs of assessment and certification becomes
	What should be the role of local planning authorities in setting local standards above and beyond Building Regulations? How can we ensure there is a level playing field of standards across Wales?
	Views
	None
	What do you see as the positive/negative impacts of removing Part B of the policy expecting buildings to be certified against Code/BREEAM?
	Views
	None

29. Is there a better, alternative, way to rewards and secure sustainable buildings (above the regulatory minimum) other than using national planning policy? What opportunities are there for future changes to Building Regulations? Views

At present improvements to Building Regs for Part L should be limited to the max fabric improvements that can be sensibly achieved. At this stage the use of renewables (PV or other) should be voluntary not mandatory. Regarding future changes, with 1/3 of housing in Wales either off gas or with solid walls there is a growing number of households who are reinstalling wood stoves. The wood stove sales are purported to have increased 4 fold in the last 3 years as the consumer attempts to lessen the effects of utility price increases. The majority of these stoves are inefficient and increase particulates. Part J and F need urgently updating to allow for more efficient pellet stoves, high temperature gasification stoves and installations to bring into line with other EU countries such as France Germany and Italy. Part L in the future should make allowances for these efficient renewables particularly with regard to room sealed units. However the consumer needs educating alongside these changes and this can only be by government led promotion in order to more efficiently use available biomass. The manufacture and use of Welsh grown timber for construction eg windows etc needs to be better supported by government At present the MCS approved heat pump technologies are all based on using HFC refrigerant, in order to obtain acceptable operating efficiencies (only GSHP are comparable with gas with reference to operating costs). HFC based refrigerants have a GWP of 1500 to 2500 times CO2!!Other countries in the EU are actively pursuing policies to phase out HFC with natural gases such as CO2.

There still doesn't exist in Wales a comprehensive body that is looking (independent of government) into latest and emerging practices in sustainable construction with particular emphasis on use of efficient use of energy and capturing carbon in construction rather than producing it. Construction Excellence and the Zero Low Carbon are commendable but are too related to existing practices. The new body needs to be of the "Think Tank" kind.

To what extent are duplication of standard and approval systems an issue? Would the removal of the PfSB policy assist in reducing duplication?
Views

None			
INOTIC			

31. What opportunities are there for higher standards to be delivered on strategic sites identified as part of the Local Development Plan?

Views

There obviously can exist opportunities. CHPs sited alongside Employment zoning or adjacent housing as just one example. But, before this, fundamental problems in the planning process must be addressed particularly to environmental issues. At present there is no requirement for statutory consultees to stipulate any pre monitoring or special requirements related to allocation of a site within the Local Development Plan, even though they have given approval or voiced no objection to the allocation of the site. This is particularly important where sites within the LDP are partially or wholly within a SSSI. A developer or manufacturer for example looking to construct on an employment zone site can initially meet with objections from CCW, at the planning stage, solely based on a presumption against any development. Even after planning approval it is possible for CCW to then introduce a requirement at the condition stage to establish a "regime" for the site. This is to compare any changes to the environment pre, during and post construction. This type of delaying tactic can mean that a project may not proceed for at least 1 year while a regime is established for all seasons.

This is simply an absurd situation and should be sorted at the allocation stage within the LDP and regime monitoring implemented if required. This would particularly apply if there was a potentially contentious allocation of a CHP biomass plant for a site.

Existing buildings

Yes	No No	Don't know			
Comment	S				
1					
	ree with the pr	oposal to raise perl	ormance sta	ndards for do	mestic extensi
	•		ormance sta	ndards for do	mestic extensi

40.	The consultation proposes that for non-domestic buildings, any measure from list which is used to generate Green Deal assessments, the list in SBEM used to generate Energy Performance Certificate recommendations and the existing list of typical consequential improvement measures from Approved Document L2B should be eligible to be a consequential improvement. Do you agree?
	Yes
	No
	Prefer a different list (please specify)
	Don't know
	Comments
	None
41.	Do you agree that there should not be major problems in extending the requirement for consequential improvements for the building control process? If you do foresee issues, what are they and how might these be addressed?
Comm	Yes No Don't know nents
	None
42.	Do you have any other comments on the proposed changes to Approved Document L1B? Please make it clear which issue each comment relates to by identifying the relevant paragraph number.
Comm	nents
	None
43.	Do you have any other comments on the proposed changes to Approved Document L2B? Please make it clear which issue each comment relates to by identifying the relevant paragraph number.
Comm	• • •
	None
44.	Do you think that the Impact Assessment is a fair and reasonable assessment of the potential costs and benefits of raising the performance standards for replacement domestic windows and domestic/non-domestic extensions? Please justify your view and provide alternative evidence if necessary.
Comm	Yes No Don't know nents

	None
45.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for consequential improvements in existing homes? Please justify your view and provide alternative evidence if necessary.
Com	Yes No Don't know nments
	Cavity wall and loft insulation are amongst the most effective ways of improving the thermal performance of the fabric of houses and provide real energy savings. However, when they are installed, the actual energy savings derived from measurements of before and after consumptions are commonly found to be less than expected from the predictions of models such as BREDEM. This discrepancy, termed a 'reduction factor' is caused in part by changed internal temperatures, a 'comfort factor', with the remainder due to other causes such as insulation performance, occupancy and ventilation. This is part of a report located at the DECC.http://www.decc.gov.uk/assets/decc/what we do/supporting consumers/saving_energy/analysis/insulationmeasures-review.pdf. A reduction factor of 50% should be applied to the projected theoretical savings and not 15% as used in the Impact Assessment. Prelim results from the Arbed programme also show that the savings in energy are a lot less than forecast and in some cases no savings were achieved at all. This fundamentally changes the anticipated carbon savings projected for existing housing although obviously there is an improvement in the quality of the housing stock due to becoming more energy efficient.
46.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for consequential improvements in existing non-domestic buildings? Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know
	Comments
	None
Cor	npliance and Performance
47.	For new dwellings, Welsh Government is proposing to develop a compliance checklist. Do you think such a checklist would be used sufficiently to warrant its development?
	Yes No Don't know Comments

⁹ A PAS is a Publically Available Specification, and the PAS would set out a quality assurance approach.

51b.	What are the arguments for and against this approach?
	Comments
	None
52.	Additional views and suggestions for addressing compliance and performance issues in new non domestic buildings would be welcome.
	Comments
	None
53.	Is the newly formatted ADL1B easier to understand and use?
	Yes No Don't know
	Comments
	None
54.	Are there any further amendments to the newly formatted ADL1B that you would recommend? If so, please provide details.
	Yes No Don't know
	Comments
	None
55.	How do the consultation proposals impact on the work of Local Authorities and Approved Inspectors? Please give positive and negative impacts.
	Comments
	None

We have asked a number of specific questions. If you have any related issues which we 56. have not specifically addressed, please use this space to report them:

Please enter here:

Reference is made to the use of the Green Deal as a means of financing upfront costs for compliance or assistance with the proposed regulations. To rely on a mechanism, yet untried, to help deliver the proposed increase in standards is wrong. I provide an example which I believe is not untypical.

A house owner in a uninsulated solid wall detached property would have a high energy use if heating the whole house. Like most house owners he therefore chooses to save on heating costs and just heats most of the time one living room. If he upgraded the wall insulation then the cost would be in the order of possibly £8000 to £12000. Like most house owners on completion he would take benefit of the comfort factor and start using more or all of the house. His energy bill would most probably be equal or very similar to his bill prior to improvement. In these circumstances he would not satisfy the Golden Rule and therefore would not satisfy conditions for the Green Deal.

#56 - ECA

2012 consultation on changes to the

Building Regulations in Wales

5 5	
Part L (Conserva	ation of fuel and power)
Consultation Response Form	Your names: Giuliano Digilio / Paul Reeve Organisation (if applicable): ECA
•	views expressed on this consultation an official response from the our represent or your own personal views?
Organisational	x Personal Views
•	or views expressed on this consultation in connection with your or support of any group? If yes please state name of group:
Yes x No	
Name of group	:
This respons Association (e represents the views of the Electrical Contractors' ECA)

(xxxix) Please tick the one box that best describes your organisation:

Builders/Developers: Builder / Main contractor: Builder/ Small builder: (extensions/repairs/maintenance Installer/ special sub-contractor Commercial developer House builder	 Property Management: Housing association (registered social landlord) Residential landlord, private sector Commercial Public sector	
Building occupier:	Building Control Bodies:	
Home owner	Local authority building control	
Tenant (residential)	Approved Inspector	
Commercial Building		
Energy Sector	Fire and Rescue Authority	

Desig	ners/Engineers/Surveyors	s:	Specific Interest:	
Archit	ect		Competent person scheme operator	
Civil/S	Structural engineer			
Buildi	ng services engineer		National representative or trade body	х
Surve	eyor		Professional body or institution	
			Research/ academic organisation	
Manu	facturer/ Supply Chain		Other (please specify)	
(xI)	Please tick the <i>one</i> box v business?	vhich best desc	cribes the size of your or your o	rganisation's
	Micro – typically 0 to 9 full-	time or equivale	ent employees (incl. sole traders)	\neg
	Small – typically 10 to 49 for	ull-time or equiv	alent employees	x
	Medium – typically 50 to 24	49 full-time or ed	quivalent employees	
	Large – typically 250+ full-	time or equivale	nt employees	
	None of the above (please	specify)		
(vi)	Are you or your organisa	ntion a member	of a competent person scheme	?
	Yes No x			
	Name of scheme: No, however the ECA Green Scheme, ELECSA.	oup owns and ru	uns the Competent Person	
(vii)	Would you be benny for	to contact w	ou again in relation to this	

Would you be happy for us to contact you again in relation to this consultation?

	2012 consultation on changes to the Building Regulations in Wales Part L (Cons	servation of fuel and power) I 185
	Yes X No	
	WG will process any personal information that you provide us with data protection principles in the Data Protection Act 1998. In partic responses containing personal information by means of all approprime measures and ensure that they are only accessible to those with at them. You should, however, be aware that as a public body, the W subject to the requirements of the Freedom of Information Act 2000 requests for all responses to this consultation. If such requests are all steps to anonymise responses that we disclose, by stripping the personal data – name and e-mail address – you supply in responding however, you consider that any of the responses that you provide to likely to identify you irrespective of the removal of your overt personal be grateful if you would indicate that, and the likely reasons, in you in the relevant comments box.	ular, we shall protect all iate technical security of operational need to see elsh Government is and may receive received we shall take m of the specifically ng to this consultation. If, o this survey would be nal data, then we should
Que	estions:	
New	homes	
1.	Do you agree with the Government's preference for a CO ₂ saving carbon dioxide emissions compared to Part L 2010.	of 40% reduction in
	No change to 2010	
	40% CO ₂ saving	
	25% CO ₂ saving	x

Something else (please explain below) Don't know Comments We have already seen tough carbon targets set by Government, but what is needed is an achievable target.

2.	Do you agree with the proposal for an 'aggregate' approach to CO_2 target setting for new homes in 2015? The CO_2 target for any individual dwelling varies depending on the ease with which the building can achieve the target, with the overall required CO_2 saving achieved when aggregated over the build mix.

Yes	Х	No	Don't know	

3.

4.

5.

6.

Yes

Yes

Yes

Don't know

Fixed percentage of building foundation area

Proportion of gross internal floor area with a practical cap

Comments	
Internal flo	or area gives better indication of energy demand.
	ee that the limits on design flexibility 'backstop' values for fabric elements ald be changed from the current reasonable provision in the technical guidenandatory?
Yes x Comments	No Don't know
	ably practicable measures should be used to reduce d energy demand.
Do you agre decision.	ee with the changes to the 'backstop'values proposed? Please explain yo
Yes Comments	No Don't know x
-	
the domesti	e any other comments on the proposed changes to Approved Document of National Calculation Methodology? Please make it clear which issue eat lates to by identifying the relevant paragraph number.
Comments	
No	
costs, new I	Assessment makes a number of assumptions on fabric/services/ renewabuild rates, phase-in rates, learning rates, etc for new homes. Do you thin aptions are fair and reasonable? Please justify your views.
Yes	No Don't know X
Comments	

We cannot offer further information or analysis to this assessment.

Yes, there could be problems with some old and/or liste	ed buildings.
Which approach should be utilized to incorporate the contechnologies into the setting of the Target Emission Rate buildings?	
Fixed carbon reduction (in kg.CO ₂ /m ² /year)	
Percentage of roof area of PV	
Percentage of floor area of PV	
Other	
Don't know	x
Please give reasons for your choice	
-	
The proposals explain the Government's preference for CO ₂ performance standards for new non-domestic buildi Which option do you prefer and why?	
No change	
Taxaa A 400/ aaaaa a 4 /40/ 50 /	
rarget A: 10% aggregate improvement (1% PV)	
Target B: 11% aggregate improvement (No PV)	
Target A: 10% aggregate improvement (1% PV) Target B: 11% aggregate improvement (No PV) Target C: 20% aggregate improvement (5% PV) Don't know	

The ECA supports the 20% improvement option as there is potential to design buildings to an increasingly energy efficient standard through better collaboration as well as utilising energy control and renewable energy technologies. For instance, with regards to better collaboration, if specialist contractors are consulted in the design phase, buildings can be designed in a far more energy efficient manner than if electrical contractors, for instance,

are simply commissioned to carry out works after the design of a building has been decided upon by others. The 20% option will benefit the client with much lower energy bills.

That said, it is important to caveat our support with the view that awareness and understanding of the current Part L standards is very low. This needs to be addressed otherwise the benefits of improved energy performance will not be recognised as intended. ECA is ready to help build that awareness.

The guidance regarding Part L is currently too complex. We would be happy to help develop guidance that can be practically followed by building services/electrical contractors.

The problem of current low compliance, however, goes beyond complex guidance. Beyond the big building projects, we believe that Part L is going widely unenforced (with budgets for local authority building control (LABC) checks being limited). We have been advised by ECA members that contractors factoring the environmental standards demanded by Part L into their quotes are losing out on business to contractors who charge less and carry out work to a lower environmental standard. Further to this, when building control officers do check and test developments, it is often after the building has been erected, meaning verification as to whether a contractor has followed Part L is more difficult or not feasible. Once again, ECA will be pleased to contribute to initiatives that support compliance and 'during the work' verification.

The ECA offers members and registrants a low cost self-certification assessment for Part L as a core element of membership. Detailed guidance and telephone support lines are also available. We have, however, found that most responses point to a lack of enforcement from building control as the root cause. We are currently looking at how we can create an enhanced service to help resolve the above compliance issues.

We believe we could work with building control officers to develop a process where random audits of in-progress developments are conducted to ensure full compliance of an electrical contractor's work. This would take the form of a checklist, which we could help develop, and which would form the basis of a declaration by contractors that works comply with the Building Regulations. This declaration would ensure that energy efficiency measures in the original design are matched in the completed building and that any deviation from original specification is highlighted.

We believe that this service, if replicated by other industry bodies and providers, could be an efficient way of promoting awareness and strengthening compliance rates across Wales in a way that is neither costly to LABC, the taxpayer or the contractor, or is time-consuming for the latter. We would welcome the opportunity to meet with your officials to discuss this idea and how compliance rates can be increased more widely.

17.	Do the proposed 2013 2014 notional buildings as set out in the changes to the National
	Calculation Methodology seem like a reasonable basis for standards setting? Please
	provide comments on the method used to develop the notional buildings and particular
	elements of one or more of the notional buildings, if relevant.

х	
---	--

No

all to see what is required.

21.	The Impact Assessment makes a number of assumptions on the costs of fabric/services/ renewables, new build rates, etc for new non-domestic buildings. Do you think these assumptions are fair and reasonable? Please justify your views.
	Yes No Don't know x
	Comments
	-
22.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for new non-domestic buildings?
	Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know X
	Comments
	-
Cum	nulative impact of policies
23.	Overall, do you think the assessment of the impact on development is broadly fair and reasonable? Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know X
	Comments
	-
Nati	onal Planning Policy Review
24.	What role should planning play in facilitating higher carbon standards? Should it focus on facilitating site wide energy opportunities that will be needed as we move towards zero or near zero carbon buildings?
	Views
	Planning policy should aim to ensure that all new build incorporates an effective mix of reasonably practicable energy measures.

Views					
-					
		ment and certific sustainable buil	•	•	ne costs and b
Yes X	No 🗌	Don't know			
					1
competer	nt without the r	uch as ECA mer need for costly a			
	ıld be the role	of local planning			
What shou	ıld be the role ıilding Regulat	of local planning tions? How can			
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Consider a 'Fee for Intervention' regime. This is where administrative costs are ranged against the duty holder if there are material breaches of Building Regulations and correspondence is

Views

Views	3								
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		unities are t part of the l					elivered o	on stra	itegic sites
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Views	S 								
-									
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Do yo	ou agre	e with the p	n your		performa	ance star	dards foi	r dome	estic replac
Do you windo	ou agre	e with the p lease explai	n your	answer.		ance stan	dards foi	r dome	estic replac
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Do you window Yes Comr	ou agre	e with the p lease explai	n your Dor	answer.	Y				
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Do you window Yes Comr	ou agre	e with the p lease explai	n your Dor roposa wer.	answer.	Y				

38.

39.

40.

Yes

Yes

No

48. l	If such a checklist was developed, what should it cover?							
	Comments							
	All building functions and all building elements and building services that affect the energy performance of a building.							
49. l	If the checklist was taken forward, who should be involved in its developn	nent?						
	Comments							
	All organisations involved within the relevant building/construction process. ECA would be pleased to contribute to this document.							
	Would any other approach be likely to prove more effective instead (such approach)? Yes x No Don't know	as a PAS ¹⁰ type						
	Comments							
	A checklist could evolve into a PAS.							
	A checklist could evolve into a 1 Ao.							
51a.	Would it be preferable for buildings of a domestic nature to be able to act through applying the recipe in AD L1A, in acknowledgement of the dome buildings, rather than demonstrating compliance with AD L2A?	•						
	Yes No Don't know X							
	Comments							
	-							
51b.	What are the arguments for and against this approach?							
	Comments							
¹⁰ A PA		h.						

56. We have asked a number of specific questions. If you have any related issues which we have not specifically addressed, please use this space to report them:

Please enter here:

Building regulations need to dovetail with listed Green Deal measures, since GD measures are essentially cost effective and do not represent a financial burden - indeed they may remove some of

2012 consultation on changes to the

Building Regulations in Wales

Part	L (Conservat	tion of fuel and power)	
Consultation Response Form		Your name: Jonathan Ducker	
		Organisation (if applicable): Kingspan Insulation Limited	
(xli)		expressed on this consultation an official response from the u represent or your own personal views?	
	Organisational	Personal Views	
(xlii)	-	expressed on this consultation in connection with your memb by group? If yes please state name of group:	ership
	Yes No No		
	Name of group:		

(xliii) Please tick the one box that best describes your organisation:

Builders/Developers:	Property Management:	
Builder / Main contractor:	Housing association (registered social landlord)	
Builder/ Small builder: (extensions/repairs/maintenance, etc)	Residential landlord, private sector	
Installer/ special sub-contractor	Commercial	
Commercial developer		
House builder	Public sector	
Building occupier:	Building Control Bodies:	
Home owner	Local authority building control	
Tenant (residential)	Approved Inspector	
Commercial Building		
Energy Sector	Fire and Rescue Authority	
Designers/Engineers/Surveyors:	Specific Interest:	
Architect	Competent person scheme operator	
Civil/Structural engineer	National representative or trade	
Building services engineer	body	
Surveyor	Professional body or institution	
	Research/ academic organisation	

Manu	facturer/ Supply Chain	Other (please specify)
(xliv)	Please tick the <i>one</i> box which best desc business?	cribes the size of your or your organisation's
	Micro – typically 0 to 9 full-time or equivale	nt employees (incl. sole traders)
	Small – typically 10 to 49 full-time or equiva	alent employees
	Medium – typically 50 to 249 full-time or ed	quivalent employees
	Large – typically 250+ full-time or equivale	nt employees
	None of the above (please specify)	September 1997
(vi)	Are you or your organisation a member	of a competent person scheme?
	Yes No	
	Name of scheme:	
	TIMSA (U-value calculation competency) Energy Assessor (ECMK & STROMA)	; On Construction Domestic
(vii)	Would you be happy for us to contact you consultation?	ou again in relation to this
	Yes No	

WG will process any personal information that you provide us with in accordance with the data protection principles in the Data Protection Act 1998. In particular, we shall protect all responses containing personal information by means of all appropriate technical security measures and ensure that they are only accessible to those with an operational need to see them. You should, however, be aware that as a public body, the Welsh Government is subject to the requirements of the Freedom of Information Act 2000, and may receive requests for all responses to this

consultation. If such requests are received we shall take all steps to anonymise responses that we disclose, by stripping them of the specifically personal data - name and e-mail address - you supply in responding to this consultation. If, however, you consider that any of the responses that you provide to this survey would be likely to identify you irrespective of the removal of your overt personal data, then we should be grateful if you would indicate that, and the likely reasons, in your response, for example in the relevant comments box.

Questions:

New homes

1.	Do you agree with the Government's preference for a CO ₂ saving of carbon dioxide emissions compared to Part L 2010.	40% reduction in
	No change to 2010	
	40% CO ₂ saving	
	25% CO ₂ saving	
	Something else (please explain below)	
	Don't know	
	Comments	
	This is a good step towards Zero Carbon, but further on-site improvements should certainly start to be considered by 2016, in order to achieve the levels needed to achieve the country's Climat Change Act 2020 targets.	е
	New insulation products, construction methods and renewable technologies are entering the market, and what is achievable on-sit is constantly changing the goal posts. Whilst off-site is also important, by 2016 there will be further scope to improve standards for new build.	

equivalent emissions wise.

7.	Do you agree that the limits on design flexibility 'backstop' values for fabric elements in new homes should be changed from the current reasonable provision in the technical guidance to become mandatory?				
	Yes No Don't know				
	Comments				
	As long as the area weighted average U-value requirement (calculated in accordance with BS E N IOS 6946:1997 Annex C) is retained, with individual elements requirement set to ensuring that interstitial, surface condensation and mould growth are not predicted to be problematic within the constructions for the single worst point e.g. following the guidance of BS5250:2002, or alternatively following the limiting values from Approved Document C.				
	This is particularly of relevance for tapered roofing insulation products, where further guidance is available currently in LABC technical Guidance Note 08/03				
8.	Do you agree with the changes to the 'backstop' values proposed? Please explain your decision.				
	Yes No Don't know				
	Comments				
	BUT, there exists opportunity to tighten these still further. Floors in particular can achieve much improved levels.				

9. Do you have any other comments on the proposed changes to Approved Document L1A or the domestic National Calculation Methodology? Please make it clear which issue each comment relates to by identifying the relevant paragraph number.

Comments

As FEES target has been omitted this time around and there is a possibility that fabric may not be revisited for 2016, fabric heat losses should be aggressively reduced this time around. Or a commitment acknowledged now, to revisit the fabric prior to 2016.

High performance products and construction methods are on the market now (and improved products are emerging) for fabric specifications generally.

Parts of Europe, especially Scandinavian countries, already target specifications far superior to those currently considered.

- Competency level for SAP Assessors to produce Design Stage Calculations should be set at 'Must be an accredited On Construction Domestic Energy Assessor' in line with requirement for producing an EPC. Thereby hopefully ensuring that assessors are following the regulations, SAP methodology and SAP conventions.
- U-value calculations undertaken to support both L1A and L1B (and L2A / L2B) should be undertaken by Competent Persons, such as members of an accredited scheme (e.g. TIMSA backed BBA scheme), in order to improve levels of confidence in calculations. (Could even consider adding a 25% confidence factor onto U-values undertaken by non competent persons...). We see a lot of calculations that have been done with no bridging allowed for, condensation problems, or just taking entirely wrong values.
- Need to ensure that transitional arrangements are better managed for the regulations implementation than was the case for the 2010 regulations change:
 - Each plot should be started within the transitional period to stay under current regulations, not one per site.
 - From figures suggested following 2010 regulations change for England and Wales, 150,000 additional plots were notified under 2006 regulations beyond the normal in the last couple of months before October 2010, thereby managing to avoid reducing their emissions to 2010 required levels by locking in their regulations to L1A2006 and then not doing more than the minimum required to stay locked in.

10.	The Impact Assessment makes a number of assumptions on fabric/services/ renewables costs, new build rates, phase-in rates, learning rates, etc for new homes. Do you think these assumptions are fair and reasonable? Please justify your views.					
	Yes No Don't know					
	Comments					
	The impact assessments underlying theory to not disadvantage dwellings built using poorer emissions heating fuels should be thought about more thoroughly.					
	Whilst agreed that dwellings off-gas would find it harder to achieve lower targets, if it transpires that the majority of dwellings end up being off-gas, than the carbon emissions targets won't in reality be met.					
	With costs of PV and other renewables technologies coming down in price and fuel bills year on year rocketing, it is particularly important to ensure that heating demand is minimised to the greatest extent possible and that higher carbon emissions associated with some heating types are offset as far as possible.					
11.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for new homes? Please justify your view and provide alternative evidence if necessary.					
	Yes No Don't know Comments					
	From Appendix 1 'Assumed annual energy consumption per property and fuel type', the specification is improved for the 40% option over the 25% option, but projected space heating and hot water requirement is shown as unchanged.					
New	non-domestic buildings					
12.	Do you agree with the proposal for 2013 for non-domestic buildings to explicitly regulate energy efficiency separately from low carbon technologies through the assessment of primary energy consumption (PEC)? Does PEC seem like a reasonable basis for standard setting?					
	Yes No Don't know					
	Comments					
	Fabric certainly needs to be better considered from the outset. Primary Energy Consumption metric at least acknowledges the necessity to reduce consumption.					

Which package of fabric and services should be sele for your choice.	cted: 7% or 10%? Please give reasons
7%	
10%	
Don't know	
Comments	
Fabric specification should be tightened still further for heated buildings. Particularly where domestic in reasonable step to minimise heating demand throug to the fabric would be to move to Package C of the proposals for fabric purposes, moving to package D Table 17 of the Impact Assessment)	character, a gh improvements original
Where non domestic buildings deemed to require proceeding, the poorer fabric specification suggested in proposals would be more sensible, but renewable e contribution requirement should be raised to comperemissions associated with increased heating due to winter months and for cooling where necessary through	current energy ensate for o worse fabric in
Do you foresee any particular issues for certain cated	gories of building to meet the TPEC or
TER?	
Yes No Don't know	
Comments	
Which approach should be utilized to incorporate the technologies into the setting of the Target Emission F buildings?	
Fixed carbon reduction (in kg.CO ₂ /m ² /year)	
Percentage of roof area of PV	
Other	
Don't know	
Please give reasons for your choice	
In most circumstances, this should give an idea of a	available roof

16.	The proposals explain the Government's preference for a 20% aggregation CO ₂ performance standards for new non-domestic buildings from Octob option do you prefer and why?	-
	No change]
	Target A: 10% aggregate improvement (1% PV)]
	Target B: 11% aggregate improvement (No PV)	
	Target C: 20% aggregate improvement (5% PV)	
	Don't know]
	Please give reasons for your choice	-
	If anything, the improvement level should be set more aggressively.	
17.	Do the proposed 2013 notional buildings as set out in the changes to the Calculation Methodology seem like a reasonable basis for standards set provide comments on the method used to develop the notional building elements of one or more of the notional buildings, if relevant.	etting? Please
	Yes No Don't know	
	Comments	
	There is a general acknowledgement that a notional package strongly influences designers and specifiers.	
	If the recipe specifications are set with the notional U-values for external elements at a good level, It sends a message to designers to think in terms of minimising heat losses and that they should consider the fabric.	
	There is particularly scope to improve the targets for buildings essentially domestic in character.	

18.	Do you think that a further recipe should be created for buildings under 250m ² and aligned with the proposed domestic recipe? Are there particular reasons why smaller buildings find compliance with the non-domestic recipes difficult? Please justify your views.				
	Yes No Don't know Comments				
	If such buildings do find it particularly harder to show compliance, then possibly an additional recipe for compliance should be developed.				
	Increased fabric specification equivalent to domestic levels should form that recipe's basis.				
	Domestic building air tightness has got better and better since the wider scale increase in air tightness testing following the 2006 regulations change, so low air tightnesses are possible given good detailing and attention to detail during construction for similarly sized properties.				
19.	Although we recognise that some buildings may need to be serviced in a particular way for legitimate functional or environmental reasons, should Part L incentivise a lower carbon servicing strategy (as with the current Energy Performance Certificate methodology), by basing the notional building on mixed-mode ventilation?				
	Yes No Don't know				
	Comments				
	Where non domestic buildings are 'constructed and serviced in a particular way for legitimate functional or environmental reasons',				

Doing so would incentivise designers to consider natural ventilation options, or where this is not considered feasible, would ensure that increased renewables to compensate for those design choices are

increased to compensate for their higher emissions associated with

their renewable energy contribution requirement should be

those fabric and servicing decisions.

23.	Overall, do you think the assessment of the impact on development is broadly fair and reasonable? Please justify your view and provide alternative evidence if necessary.				
	Yes	No 🗌	Don't know		
	Comments				_

National Planning Policy Review

24. What role should planning play in facilitating higher carbon standards? Should it focus on facilitating site wide energy opportunities that will be needed as we move towards zero or near zero carbon buildings?

Views

Concentrate on a high standard of on-site building specific energy efficiency and on-site renewables as far as possible (what is realistically achievable on site will vary from one site to another).

Set off-site requirements more onerously so as to encourage the pushing of on-site solutions as far as possible.

Remaining carbon emissions to be offset via 'allowable solutions', which should include a raft of measures, including upgrading fabric of existing buildings (possibly paying into a fund for local upgrade of existing dwellings and non domestic buildings)

25. What are the implications from future (and regular) changes to the Code for Sustainable Homes and BREEAM on the implementation of the policy?

Views

Focus on a strong message and target setting dictated by the proposed new Welsh Part L of the building regulations.

Code for Sustainable Homes and BREEAM targets could then still be set for exemplar developments, government buildings including schools and for social housing projects.

The Code and BREEAM will no doubt be revised and updated as the regulations change to try and stay relevant – possibly moving more towards the kind of format set in Scottish Building Standards Section 7 on Sustainability.

It may be worth considering producing Welsh specific guidance along these lines.

26.	Are the costs of assessment and certification now disproportionate to the costs and benefits of achieving a minimum sustainable buildings standard level?	
	Yes No Don't know	
	Comments	
	If targets are better set by improved building standards and there is no separate requirement for a Code or BREEAM assessment, costs of SAP and SBEM calculations should not be considerably different	
27.	What should be the role of local planning authorities in setting local standeyond Building Regulations? How can we ensure there is a level playing across Wales?	
	Views	
	Care should be considered in setting additional local requirements above and beyond Building Regulations.	
	Setting a national standard for Wales for sustainability similar to Section 7 of Scottish Building Standards would at least ensure that developers had an understanding of potential requirements from one location to another.	
	This would allow specific higher requirements to be set for some areas / developments, whilst making it easier to determine how those standards would need to be applied.	
28.	What do you see as the positive/negative impacts of removing Part B of the policy expecting buildings to be certified against Code/BREEAM?	
	Views	
	Cost savings to developer.	
	The code and BREEAM represent a standard that developers are familiar with and now have strategies in place to show compliance. Unless replaced by an alternative nationally agreed standard, it could lead to different authorities having different requirements from one area to another, resulting in more uncertainty and higher costs	

The Code and BREEAM do lead to better, more sustainable

as a result for design.

buildings in many respects.

29. Is there a better, alternative, way to rewards and secure sustainable buildings (above the regulatory minimum) other than using national planning policy? What opportunities are there for future changes to Building Regulations?

Views

Setting a national standard for Wales for sustainability similar to Section 7 of Scottish Building Standards would at least ensure that developers had an understanding of potential requirements from one location to another.

This would allow specific higher requirements to be set for some areas / developments, whilst making it easier to determine how those standards would need to be applied.

30. To what extent are duplication of standard and approval systems an issue? Would the removal of the PfSB policy assist in reducing duplication?

Views

A single national framework would minimise duplication.

31. What opportunities are there for higher standards to be delivered on strategic sites identified as part of the Local Development Plan?

Views

Setting a national standard for Wales for sustainability similar to Section 7 of Scottish Building Standards would at least ensure that developers had an understanding of potential requirements from one location to another.

(Platinum, Gold, Silver and Bronze) levels for various elements would allow for a bespoke requirement for a given area (Bronze being regulations compliance).

This would allow specific higher requirements to be set for some areas / developments, whilst making it easier to determine how those standards would need to be applied.

32.

33.

34.

Yes

sectors.

an indiv be in lin	Do you agree that the exemption for conservatories or porches should be removed where an individual room heat or air conditioning unit is installed? How effective would this change be in limiting energy use/emissions, or are there other ways by which energy performance might be improved where conservatories or porches are installed?		
Yes	No Don't know		
Comme	ents		
separa better, occup	rvatories that are below a certain size and thermally ated from the dwelling could be brought within the regulations acknowledging that these spaces are often considered by the ers as part of the dwelling, with separating doors often ed by occupants once works completed.		
should before emissi heated	crofit conservatories, an existing dwelling + conservatory achieve the same emissions as the existing dwelling did the conservatory was added; Taking the enlarged dwelling's ons into account as if the conservatory were part of the denvelope of an enlarged dwelling – this is likely to sitate the homeowner improving the existing dwelling.		
complication conservation complex comp	w build compliance where a conservatory is included, ance should be based on whole house, including vatory, with separation between house and conservatory ed for the purpose of calculations, so you in effect ensate for the conservatory fully with the performance of the the house.		
	agree with the proposal to require consequential improvements es in habitable space in existing homes below 1000m ² ? Please e		
Yes	No Don't know		
Comme	ents		
existin	lieve it necessary to help drive improvements to the large number of g buildings, which overshadows the comparatively smaller number builds.		
size, \	a very small number of existing dwellings exceed 1000m ² in very few (if any) improvements will have been triggered by the ag rule under the current regulations.		

37. The consultation explains that the regulatory requirement for consequential improvements upon domestic extensions or increases in habitable space would be limited to a list of measures comprising a minimum standard of loft insulation, hot water cylinder insulation and the installation of cavity wall insulation.

Do you agree with this list of measures?	
Should this list be different (please explain below)?	Bolostosiooso
Another approach (please explain below)	no populario de
Don't know	

Comments

Consequential improvements triggered by works should require all measures identified to be undertaken.

However the the requirement could also include the requirement for a green deal assessment to be undertaken and put into the hands of the house owner, so as to inform them of any higher cost measures that could also be undertaken to the existing dwelling (as well as identifying other cheaper measures).

Thus providing the owner with the necessary information and projected costs of those works, so that they can decide themselves whether to consider going beyond the minimum requirements.

More costly works can be financed via Green Deal / ECO and hopefully the GD assessment might prompt the homeowner to consider more significant improvements.

Other measures that could also be considered and if undertaken, would also fulfil the requirement:

- Solid wall insulation (Internal Wall insulation or External Wall Insulation)
- Party Wall Insulation (Existing Cavity Party / Separating Walls to be insulated to prevent additional heat losses arising from thermal bypass).
- Where Existing Dwellings and Non Dom premises are sited above unheated areas e.g. over car parks / car ports / exposed areas which are not insulated at present, a significant amount of carbon / fuel costs could be saved by insulating the soffit.
- Where technically, functionally and economically feasible, improvements to ground floors should also be considered as a potential measure for upgrading the dwelling where floors are uninsulated (specific measures will depend on floor type).
- Where glazing is being replaced, proposed additional measure of inserting Insulated cavity Closers i.e. existing cavities which have already been filled with insulation, if the windows and / or doors are replaced in the future, Insulated cavity closers should be placed around the window / door openings as they are replaced, reducing heat-loss from thermal bridging around openings.
- Where cold loft spaces are likely to be used for storage/maintenance, improvements made to insulation levels should consider that potential use and focus on non-compressible insulation types.

38.	What effect do you think the requirements for consequential improvement demand for repair, maintenance and improvement activity? Please explain your answer.	
	Increase demand	
	Reduce demand	
	No effect	
	Don't know	
	Comments	
	Minimal if any – Potentially could increase demand (improvements to the existing buildings being extended)	
39.	Do you agree with the proposal to introduce consequential improveme or increases in habitable space in non-domestic buildings under 1000r your view.	
	Yes No Don't know	
	Comments	
	This will provide consistency across the domestic and non-domestic sectors.	
	This should also stimulate business for small and medium sized enterprises within the commercial and industrial sectors through requirements to undertake improvements	
		_
40.	The consultation proposes that for non-domestic buildings, any measured to generate Green Deal assessments, the list in SBEM used to generate Certificate recommendations and the existing list of typic improvement measures from Approved Document L2B should be eligible consequential improvement. Do you agree?	enerate Energy al consequential
	Yes	
	No	
	Prefer a different list (please specify)	
	Don't know	

Comments

There should always be the option to show a before and after energy calculation to show no net increase in emissions.

41.	Do you agree that there should not be major problems in extending the requirement for consequential improvements for the building control process? If you do foresee issues, what are they and how might these be addressed?
	Yes No Don't know

Comments

If Building Control made a reasonable charge to cover additional work required beyond current workload, then this would offset any manpower issues involved.

Unless they charge an additional sum, presumably Building Control will not have the resources to physically check that proposed consequential improvements have actually been installed in every case.

Allowing some of that onus to be pushed onto Green Deal Assessors (and GD Providers) would presumably help alleviate this burden to a certain extent.

BCB will certainly require specific training and educating as to the provisions and will need to be engaged in the process of making it all work

42. Do you have any other comments on the proposed changes to Approved Document L1B? Please make it clear which issue each comment relates to by identifying the relevant paragraph number.

Comments

Disappointingly, there is no tightening of standards proposed for conversions/alterations e.g. barn conversions. The target for existing elements renovated or altered could also be set aspirationally very high (new build/new extension level), with a caveat (as now) for providing that works are technically / functionally and economically achievable.

In particular, where a total refubishment such as a barn conversion is proposed, there is significant room to consider tightening of requirements to a standard closer to those suggested for new build over the current L1B 2010 levels. For dwellings converted from unheated buildings, target could be set as for a new build using SAP to show a TER/DER compliance. But with the notional building's thermal bridging set at y=0.15 for determining the target.

43.	Do you have any other comments on the proposed changes to Approved Document L2B?
	Please make it clear which issue each comment relates to by identifying the relevant
	paragraph number.

Comments

- Competency level for Energy Assessors undertaking design flexibility calculations should be set at 'Must be an accredited Non Domestic Building Energy Assessor' in line with requirement for producing an EPC.
- U-value calculations undertaken to support L2A / L2B, should be undertaken by Competent Persons, such as members of an accredited scheme (e.g. TIMSA backed BBA scheme), in order to improve levels of confidence in calculations.
- Need to ensure that transitional arrangements are better managed for the regulations implementation than was the case for the 2010 regulations change.

44.	Do you think that the Impact Assessment is a fair and reasonable assessment of the potential costs and benefits of raising the performance standards for replacement domestic windows and domestic/non-domestic extensions? Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know
	Comments
45.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for consequential improvements in existing homes? Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know
	Comments

50.	Would any other approach be likely to prove more effective instead (such as a PAS ¹¹ type approach).
	Yes No Don't know
	Comments
51a.	Would it be preferable for buildings of a domestic nature to be able to achieve compliance through applying the recipe in AD L1A, in acknowledgement of the domestic nature of such buildings, rather than demonstrating compliance with AD L2A?
	Yes No Don't know
	Comments
	If suitably domestic in nature.
51b.	What are the arguments for and against this approach?
	Comments
	Heating and Hot water requirements due to occupancy levels and periods may be somewhat different to actual domestic levels.
52.	Additional views and suggestions for addressing compliance and performance issues in new non domestic buildings would be welcome.
	Comments
	Ductwork air leakage and ductwork insulation thermal performance requirements on heated/chilled/dual purpose ducts should be in the same sections of Approved Document L2 (where air leakage exists now) and or/Non-Domestic Building Services Compliance Guide.

¹¹ A PAS is a Publically Available Specification, and the PAS would set out a quality assurance approach.

Is the newly formatted ADL1B easier to understand and use?
Yes No Don't know
Comments
Are there any further amendments to the newly formatted ADL1B that you would recommend? If so, please provide details.
Yes No Don't know
Comments
Although clearer language and format is a good thing, this should not be at the expense of muddying intentions of guidance.
How do the consultation proposals impact on the work of Local Authorities and Approved Inspectors? Please give positive and negative impacts.
Comments
Additional workload in understanding changes and ensuring compliance.

We have asked a number of specific questions. If you have any related issues which we 56. have not specifically addressed, please use this space to report them:

Please enter here:

Dwellings and non-domestic buildings built in accordance with the Approved Documents L1A/L2A are fairly commonly still being built in accordance with 'Accredited Construction Details' using the generic Psi values resulting from that document, which don't differentiate between construction types. These values are a carry over from 2002 / 2006 regulations work and are based on U-values for wall constructions relating to compliance with those regulations (i.e. worse U-values).

As constructions have been improved, the additional heat losses associated with thermal bridging have become much more important and we would question some of the ACD's values being used regularly by builders and assessors as regards their reliability for 2010 and 2013 constructions.

The ACD's need revising based on actual constructions to better reflect what is actually being built - so that details modelled by competent thermal assessors are on a level playing field with them.

Some junctions are not even considered in the ACD's.

If a thermal modeller assesses a junction based on a much improved construction with a lower U-value, the Psi value is often worse than the ACD's result (From BR IP 1/06 and SAP Appendix K). In reality for the same low U-value, those ACD comparison levels would be worse than they are..

2012 consultation on changes to the

Building Regulations in Wales

Part L (Conservation of fuel and power)

	ultation onse Form	Your name: Martin Ford Organisation (if applicable): Council for Aluminium in Building
(xlv)		expressed on this consultation an official response from the ou represent or your own personal views?
	Organisational	x Personal Views
(xlvi)	•	s expressed on this consultation in connection with your membership any group? If yes please state name of group:
	Yes X No	
	Name of group:	
	Council for Alu	minium in Building Technical Committee
(vlvii)	Please tick the	one boy that best describes your organisation:

(xlvii) Please tick the one box that best describes your organisation:

Builders/Developers: Builder / Main contractor: Builder/ Small builder: (extensions/repairs/maintenance) Installer/ special sub-contractor Commercial developer House builder	 Property Management: Housing association (registered social landlord) Residential landlord, private sector Commercial Public sector	
Building occupier: Home owner	Building Control Bodies: Local authority building control	
Tenant (residential) Commercial Building	Approved Inspector	
Energy Sector	Fire and Rescue Authority	

Yes	X	No	

WG will process any personal information that you provide us with in accordance with the data protection principles in the Data Protection Act 1998. In particular, we shall protect all responses containing personal information by means of all appropriate technical security measures and ensure that they are only accessible to those with an operational need to see them. You should, however, be aware that as a public body, the Welsh Government is subject to the requirements of the Freedom of Information Act 2000, and may receive requests for all responses to this consultation. If such requests are received we shall take all steps to anonymise responses that we disclose, by stripping them of the specifically personal data – name and e-mail address – you supply in responding to this consultation. If, however, you consider that any of the responses that you provide to this survey would be likely to identify you irrespective of the removal of your overt personal data, then we should be grateful if you would indicate that, and the likely reasons, in your response, for example in the relevant comments box.

Questions:

New homes

1.	Do you agree with the Government's preference for a CO ₂ saving of 40% reduction in carbon dioxide emissions compared to Part L 2010.		
	No change to 2010		
	40% CO ₂ saving	x	
	25% CO ₂ saving		
	Something else (please explain below)		
	Don't know		
	Comments		
	40% preferred, so as to avoid a more dramatic change when zero carbon standards are introduced in future revisions.		

2. Do you agree with the proposal for an 'aggregate' approach to CO₂ target setting for new homes in 2015? The CO₂ target for any individual dwelling varies depending on the ease with which the building can achieve the target, with the overall required CO₂ saving achieved when aggregated over the build mix.

Comments		Don't know			
elemental sp	pecifications f		ces plus an ad	based on a con Iditional CO ₂ sav	
res x	No	Don't know			
Comments					
demand for performance	r energy from	any source (re	enewable or n	s minimises the on-renewable). consistent provi	l l
which is app	ropriate for th	ne heating system	em type. By a	ed system efficie dopting this app ou agree with th	roach to differ
res x	No	Don't know			
لتا ت					
Comments					
Comments or the CO ₂ s	avings propo		cipe specificat	tions a sensible	way of achiev
or the CO ₂ sem? Please	•		cipe specificat	ions a sensible	way of achiev
Comments or the CO ₂ s	justify your c	choice.	cipe specificat	ions a sensible	way of achiev

6.	In approaching the selection of the amount of PV to be installed on dwellings, do you prefer?
	Fixed percentage of building foundation area
	Proportion of gross internal floor area with a practical cap
	Don't know
	Comments
7.	Do you agree that the limits on design flexibility 'backstop' values for fabric elements in new homes should be changed from the current reasonable provision in the technical guidance to become mandatory?
	Yes No X Don't know
	Comments
	The current system, in which the backstop values are regarded as "reasonable provision", works satisfactorily.
8.	Do you agree with the changes to the 'backstop' values proposed? Please explain your decision.
	Yes No Don't know
	Comments
	We have concerns in reducing the back stop values as this may have an adverse affect on the building. In our experience we would not want this to go below U-value 1.8 W/m2.K
9.	Do you have any other comments on the proposed changes to Approved Document L1A or the domestic National Calculation Methodology? Please make it clear which issue each comment relates to by identifying the relevant paragraph number.
	Comments
	The calculation methodology should take into consideration solar gain and light transmittance.

We prefer the 10% option which achieves 11% CO2 reduction without renewable. It is important to maximise the savings through the building fabric, and to minimise the reliance on energy supply (whether renewable or not), so that the building remains energy efficient, comfortable and habitable in the event of the energy supply system under-performing due to failure, disruption or lack of maintenance.

14. Do you foresee any particular issues for certain categories of building to meet TER? Yes No Don't know X Comments Which approach should be utilized to incorporate the contribution of low carbot technologies into the setting of the Target Emission Rate (TER), for non dome buildings? Fixed carbon reduction (in kg.CO ₂ /m²/year) Percentage of roof area of PV Other Don't know Please give reasons for your choice	t the TPEC o
Comments Which approach should be utilized to incorporate the contribution of low carbot technologies into the setting of the Target Emission Rate (TER), for non dome buildings? Fixed carbon reduction (in kg.CO ₂ /m²/year) Percentage of roof area of PV Other Don't know	
Which approach should be utilized to incorporate the contribution of low carbot technologies into the setting of the Target Emission Rate (TER), for non dome buildings? Fixed carbon reduction (in kg.CO ₂ /m²/year) Percentage of roof area of PV Other Don't know	
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technologies into the setting of the Target Emission Rate (TER), for non dome buildings? Fixed carbon reduction (in kg.CO ₂ /m²/year) Percentage of roof area of PV Other Don't know	
technologies into the setting of the Target Emission Rate (TER), for non dome buildings? Fixed carbon reduction (in kg.CO ₂ /m²/year) Percentage of roof area of PV Other Don't know	
Percentage of roof area of PV Other Don't know	
Other Don't know	
Don't know	
<u> </u>	
Please give reasons for your choice	
16. The proposals explain the Government's preference for a 20% aggregate imp CO ₂ performance standards for new non-domestic buildings from October 20° option do you prefer and why?	
No change	
Target A: 10% aggregate improvement (1% PV)	
Target B: 11% aggregate improvement (No PV)	

Not qualified to comment

20.	Do you have any other comments on the proposed changes to Approved Document L2A or the non-domestic National Calculation Methodology? Please make it clear which issue each comment relates to by identifying the relevant paragraph number.
	Comments
	No comments
21.	The Impact Assessment makes a number of assumptions on the costs of fabric/services/ renewables, new build rates, etc for new non-domestic buildings. Do you think these assumptions are fair and reasonable? Please justify your views.
	Yes No X Don't know
	Comments
	See our response to Q10
22.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for new non-domestic buildings?
	Please justify your view and provide alternative evidence if necessary.
	Yes No x Don't know
	Comments
	See our response to Q10
Cum	ulative impact of policies
23.	Overall, do you think the assessment of the impact on development is broadly fair and reasonable? Please justify your view and provide alternative evidence if necessary.
	Yes No x Don't know
	Comments
	See our response to Q10

National Planning Policy Review

33.	Do you agree with the proposal to raise performance standards for domestic extensions? Please explain your answer.
	Yes X No Don't know
	Comments
	Ideally the standards required for extensions should be the same as for new build, but we do have concerns that this may have a negative impact on the market
34.	Do you agree with the proposal to raise performance standards for non-domestic extensions? Please explain your answer.
	Yes x No Don't know
	Comments
	See our response to Q33
35.	Do you agree that the exemption for conservatories or porches should be removed where an individual room heat or air conditioning unit is installed? How effective would this change be in limiting energy use/emissions, or are there other ways by which energy performance might be improved where conservatories or porches are installed? Yes x No Don't know Comments
36.	But we do have concerns that this will have a negative effect on the market upon extensions or increases in manual space in existing nomes below room: I rease explain your view.
	Yes No X Don't know
	Comments
	We believe this will have a negative effect on the current declining market
37.	The consultation explains that the regulatory requirement for consequential improvements upon domestic extensions or increases in habitable space would be limited to a list of measures comprising a minimum standard of loft insulation, hot water cylinder insulation and the installation of cavity wall insulation.
	Do you agree with this list of measures?
	Should this list be different (please explain below)?

40. The consultation proposes that for non-domestic buildings, any measure from list which is used to generate Green Deal assessments, the list in SBEM used to generate Energy Performance Certificate recommendations and the existing list of typical consequential improvement measures from Approved Document L2B should be eligible to be a consequential improvement. Do you agree?

44.	Do you think that the Impact Assessment is a fair and reasonable assessment of the potential costs and benefits of raising the performance standards for replacement domestic windows and domestic/non-domestic extensions? Please justify your view and provide alternative evidence if necessary.
	Yes No x Don't know
	Comments
	Please see our response earlier as windows and doors have not been costed separately
45.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for consequential improvements in existing homes? Please justify your view and provide alternative evidence if necessary. Yes No x Don't know
	Comments
	See our response to Q44
46.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for consequential improvements in existing non-domestic buildings? Please justify your view and provide alternative evidence if necessary.
	Yes No x Don't know
	Comments
Com	See our response to Q44
	For new dwellings, Welsh Government is proposing to develop a compliance checklist. Do you think such a checklist would be used sufficiently to warrant its development?
	Yes No Don't know
	Comments

¹² A PAS is a Publically Available Specification, and the PAS would set out a quality assurance approach.

#61 - British Board of Agrement

2012 consultation on changes to the

Building Regulations in Wales

Part L (Conservation of fuel and power)

	sultation oonse Form	Your name: Jon Denyer Organisation (if applicable): British Board of Agrément
(xlix)		expressed on this consultation an official response from the ou represent or your own personal views?
	Organisational	x Personal Views
(I)	-	s expressed on this consultation in connection with your membership any group? If yes please state name of group:
	Yes No [x
	Name of group	:
(li)	Please tick the	one hox that hest describes your organisation:

(vii) Would you be happy for us to contact you again in relation to this consultation?

	Yes x No
protect contait ensure however the Fr consult disclosi supply you prepared	rill process any personal information that you provide us with in accordance with the data ction principles in the Data Protection Act 1998. In particular, we shall protect all responses ning personal information by means of all appropriate technical security measures and e that they are only accessible to those with an operational need to see them. You should, ver, be aware that as a public body, the Welsh Government is subject to the requirements of eedom of Information Act 2000, and may receive requests for all responses to this Itation. If such requests are received we shall take all steps to anonymise responses that we se, by stripping them of the specifically personal data – name and e-mail address – you in responding to this consultation. If, however, you consider that any of the responses that rovide to this survey would be likely to identify you irrespective of the removal of your overt hal data, then we should be grateful if you would indicate that, and the likely reasons, in your nise, for example in the relevant comments box.
Que	estions:
New	homes
1.	Do you agree with the Government's preference for a $\rm CO_2$ saving of 40% reduction in carbon dioxide emissions compared to Part L 2010.
	No change to 2010
	40% CO ₂ saving
	25% CO ₂ saving
	Something else (please explain below)
	Don't know
	Comments
	No comment
2.	Do you agree with the proposal for an 'aggregate' approach to CO ₂ target setting for new homes in 2015? The CO ₂ target for any individual dwelling varies depending on the ease with which the building can achieve the target, with the overall required CO ₂ saving achieved when aggregated over the build mix.

Yes No Don't know

6. In approaching the selection of the amount of PV to be installed on dwellings, do you prefer?

Yes

No

Don't know

Yes No Don't know	
Comments	
No comments	
Which approach should be utilized to incorporate the contr technologies into the setting of the Target Emission Rate (buildings?	
Fixed carbon reduction (in kg.CO ₂ /m ² /year)	
Percentage of roof area of PV	
Other	
Don't know	
Please give reasons for your choice	
No comment	
The proposals explain the Government's preference for a 2 CO ₂ performance standards for new non-domestic building option do you prefer and why?	
No change	
Target A: 10% aggregate improvement (1% PV)	
Target B: 11% aggregate improvement (No PV)	
Target C: 20% aggregate improvement (5% PV)	
Don't know	
Please give reasons for your choice	

21.	The Impact Assessment makes a number of assumptions on the costs of fabric/services/ renewables, new build rates, etc for new non-domestic buildings. Do you think these assumptions are fair and reasonable? Please justify your views.
	Yes No Don't know
	Comments
	No comment
22.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for new non-domestic buildings?
	Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know
	Comments
	No comment
Cum	ulative impact of policies
23.	Overall, do you think the assessment of the impact on development is broadly fair and reasonable? Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know
	Comments
	No comment

National Planning Policy Review

24. What role should planning play in facilitating higher carbon standards? Should it focus on facilitating site wide energy opportunities that will be needed as we move towards zero or near zero carbon buildings?

Views

	No comment	
L		ı
	What are the implications from future (and regular) changes to the Code Homes and BREEAM on the implementation of the policy?	e for Sustainable
١	/iews	
	No comment	
	Are the costs of assessment and certification now disproportionate to the achieving a minimum sustainable buildings standard level?	e costs and benefits
١	Yes No Don't know	
(Comments	
	No comment	
b	What should be the role of local planning authorities in setting local stan beyond Building Regulations? How can we ensure there is a level playir across Wales?	
١	/iews	
	No comment	
	What do you see as the positive/negative impacts of removing Part B of expecting buildings to be certified against Code/BREEAM?	the policy
\	/iews	1
	No comment	
L		

29. Is there a better, alternative, way to rewards and secure sustainable buildings (above the regulatory minimum) other than using national planning policy? What opportunities are there for future changes to Building Regulations?

34.	Do you agree with the proposal to raise performance standards for non-domestic extensions? Please explain your answer.
	Yes x No Don't know
	Comments
35.	Do you agree that the exemption for conservatories or porches should be removed where an individual room heat or air conditioning unit is installed? How effective would this change be in limiting energy use/emissions, or are there other ways by which energy performance might be improved where conservatories or porches are installed?
	Yes No Don't know
	Comments
	No comment
36.	Do you agree with the proposal to require consequential improvements upon extensions or increases in habitable space in existing homes below 1000m ² ? Please explain your view.
	Yes No Don't know
	Comments
	No comment

37.	The consultation explains that the regulatory requirement for consecution domestic extensions or increases in habitable space would be measures comprising a minimum standard of loft insulation, hot wat and the installation of cavity wall insulation.	limited to a list of
	Do you agree with this list of measures?	
	Should this list be different (please explain below)?	
	Another approach (please explain below)	
	Don't know	
	Comments	
	No comment	
38.	What effect do you think the requirements for consequential improve the demand for repair, maintenance and improvement activity? Plea explain your answer.	•
	Increase demand	
	Reduce demand	
	No effect	
	Don't know	
	Comments	
	No comment	
39.	Do you agree with the proposal to introduce consequential improver or increases in habitable space in non-domestic buildings under 100 your view.	ments upon extensions 00m ² ? Please explain
	Yes No Don't know	
	Comments	
	No comment	

44.	Do you think that the Impact Assessment is a fair and reasonable assessment of the potential costs and benefits of raising the performance standards for replacement domestic windows and domestic/non-domestic extensions? Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know
	Comments
	No comment
45.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for consequential improvements in existing homes? Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know
	Comments
	No comment
46.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for consequential improvements in existing non-domestic buildings? Please justify your view and provide alternative evidence in necessary.
	Yes No Don't know
	Comments
	No comment
Coı	npliance and Performance
47.	For new dwellings, Welsh Government is proposing to develop a compliance checklist. Do you think such a checklist would be used sufficiently to warrant its development?
	Yes No Don't know

 $^{^{13}}$ A PAS is a Publically Available Specification, and the PAS would set out a quality assurance approach.

51b.	What are the arguments for and against this approach?
	Comments
	No comments
52.	Additional views and suggestions for addressing compliance and performance issues in new non domestic buildings would be welcome.
	Comments
5 0	le the people formed to d. A.D. A.D. engine to understand and upon
53.	Is the newly formatted ADL1B easier to understand and use?
	Yes No Don't know
	Comments
	No comment
54.	Are there any further amendments to the newly formatted ADL1B that you would recommend? If so, please provide details.
	Yes No Don't know
	Comments
	No comment
55.	How do the consultation proposals impact on the work of Local Authorities and Approved Inspectors? Please give positive and negative impacts.
	Comments
	No comment

We have asked a number of specific questions. If you have any related issues which we 56. have not specifically addressed, please use this space to report them:

Please enter here:

The BBA and the Project Partners comprising of BRUFMA, the NHBC foundation, MIMA, John Cotton, Web Dynamics, Carol Houghton Associates and Excel Industries would like to contribute to the Part L consultation with test results on typical tiled/slated domestic roofs incorporating insulation at rafter level. All constructions were tested at a 45 degree angle using the Guarded Hot Box in the BBA Test facilities. The samples were constructed using three different types of insulation materials and the power required to maintain a 20 degree temperature difference across the sample was recorded. Measurements were taken for air speeds up to 7.5 m/s, which would relate to the average annual wind speed recorded in UK coastal areas and parts of Wales.

Preliminary results indicate that the thermal performance of all three constructions was significantly affected by the increase in air speed. We have provisionally translated the results to a roof U value and estimated the likely impact on the DER. As an example for a semi-detached or end terraced house with a roof U value of 0.16 W/m2K, if this U value increases by 50 % to 0.24 for an average UK wind speed (around 4.5 m/s), the DER is increased by 1 %.

We believe that these results have significance for the UK's commitment to reducing carbon emissions and for the perceived 'performance gap', and are timely in view of the current consultation. Further research on this topic would be beneficial with a view to determining real-life performance for all plain elements, exploring the possibility of introducing a suitable confidence factor in calculation standards, in identifying robust construction methods and understanding the difference between design and as-built performance. Any such further research would require using test methods where the methodology is open and transparent and results and analysis are subject to peer review". ?

Other general points include the following:

- Chapter 6, section 6.2, paragraph 138 discusses the need for improved guidance. This guidance should focus on illustrating compliant construction types and details
- Paragraph 157 refers to Competent Person schemes as a way to improve process, perhaps the BBA/TIMSA U value scheme could be seen as one of these schemes
- Section 6.6 refers to the intentions of the Welsh government to engage in further research and development and also its interest in measurement and testing process to understand the performance gap. There could be some interest here for the aforementioned warm roofs project related activities

#62 - Mineral Products Association

Dear Sir/Madam,

Thank you for the opportunity to respond to the Welsh Part L consultation, for which I have provided a brief response at the end of this email.

The Mineral Products Association is the trade association for the aggregates, asphalt, cement, concrete, dimension stone, lime, mortar and silica sand industries. www.mineralproducts.org

Yours faithfully Tom De Saulles Senior Manager, Building Sustainability MPA - The Concrete Centre

2012 consultation on changes to the Building Regulations in Wales

Part L (Conservation of fuel and power)

Consultation Response Form

Your name: T De Saulles

Organisation (if applicable): Mineral Products Association (MPA)

- (i) Are the views expressed on this consultation an official response from the organisation you represent or your own personal views?
- ✓ Organisational
- (ii) Are your views expressed on this consultation in connection with your membership or support of any group? If yes please state name of group:
- ✓ Yes

	Name of group:
(iii)	Please tick the one box that best describes your organisation:
Speci	fic Interest:
Natio body	√ nal representative or trade
(iv)	Please tick the <i>one</i> box which best describes the size of your or your organisation's business?
	Small – typically 10 to 49 full-time or equivalent employees
(vi)	Are you or your organisation a member of a competent person scheme?
✓	No
	Name of scheme:
(vii)	Would you be happy for us to contact you again in relation to this consultation?

Yes

General response from the MPA to the 2012 consultation on changes to Part L of the Building Regulations in Wales

We have outlined our views below on what we consider to be the key issues covered by the consultation. We apologies for deviating form the template provided and hope this does not cause any problems.

Overall, we believe that that the Welsh Part L requirements should continue to align with those of England, thereby avoiding the risk of confusion in what is an increasingly complex area of the Building Regulations. This will also avert the need for house builders and developers from having to produce new specifications and designs specifically for the Welsh market, which would in turn increases costs at a time when we need to minimise barriers to house building.

Notwithstanding the comment above, there are two proposals we believe have merit:

- We support the withdrawal of the sustainable building planning policy national minimum standard for housing, and an increased emphasis on master planning for strategic sites through the Local Development Plan. If this were to proceed, provision should be retained for crediting /encouraging the use of responsibly sourced materials as there has been a great deal of work successfully undertaken to develop and improve this aspect of the supply chain.
- Airtightness the proposal to limit air tightness to around 5 m³(h.m²) could help address the uncertainties around the ventilation of very airtight dwellings, at least until more research has been carried out in this area and the potential for unintended consequences can be properly addressed in the Regulations.

In respect of CO₂ emissions, we believe that a phased 40% improvement in Part L 2010 effective from January 2013, or a staged 25% improvement in 2014, are both too onerous at the present time, and may unduly impact on the cost of house building and the number of new homes built.

2012 consultation on changes to the

Building Regulations in Wales

Part L (Conservation of fuel and power)

Minor amendments indicated in red

Consultation

Response Form Your name: Kathryn James

Organisation (if applicable): Rockwool Ltd

(v)	Are the views expressed on this consultation an official response from the organisation you represent or your own personal views?
	Organisational x Personal Views
(vi)	Are your views expressed on this consultation in connection with your membership or support of any group? If yes please state name of group:
	Yes No x
	Name of group:

(vii) Please tick the one box that best describes your organisation:

Builders/Developers: Builder / Main contractor:		Property Management: Housing association (registered social landlord)	
Builder/ Small builder: (extensions/repairs/maintenance Installer/ special sub-contractor Commercial developer House builder	, etc)	Residential landlord, private sector Commercial Public sector	
Building occupier:		Building Control Bodies:	
Home owner		Local authority building control	
Tenant (residential)		Approved Inspector	
Commercial Building			
Energy Sector		Fire and Rescue Authority	

Desig	ners/Engineers/Surveyor	s:	Specific Interest:	
Archit	ect		Competent person scheme operator	
Civil/S	Structural engineer			
Buildi	ng services engineer		National representative or trade body	
Surve	yor		Professional body or institution	
			Research/ academic organisation	
Manufacturer/ Supply Chain X		Other (please specify)		
(viii)	Please tick the <i>one</i> box vbusiness?	which best desc	cribes the size of your or your o	rganisation's
	Micro – typically 0 to 9 full-	-time or equivale	ent employees (incl. sole traders)	
	Small – typically 10 to 49 f	ull-time or equiv	alent employees	
	Medium – typically 50 to 249 full-time or equivalent employees			
	Large – typically 250+ full-	time or equivale	nt employees	X
	None of the above (please	e specify)		
(vi)	Are you or your organisa	ation a member	of a competent person scheme	?
	Yes x No			
	Name of scheme:			
	BBA-TIMSA U-Value Co	mpetent Person	Scheme	
(vii)	Would you be happy for consultation?	us to contact y	ou again in relation to this	_
	Yes x No			

WG will process any personal information that you provide us with in accordance with the data protection principles in the Data Protection Act 1998. In particular, we shall protect all responses containing personal information by means of all appropriate technical security measures and ensure that they are only accessible to those with an operational need to see them. You should, however, be aware that as a public body, the Welsh Government is subject to the requirements of the Freedom of Information Act 2000, and may receive requests for all responses to this consultation. If such requests are received we shall take all steps to anonymise responses that we disclose, by stripping them of the specifically personal data - name and e-mail address - you supply in responding to this consultation. If, however, you consider that any of the responses that you provide to this survey would be likely to identify you irrespective of the removal of your overt personal data, then we should be grateful if you would indicate that, and the likely reasons, in your response, for example in the relevant comments box.

Questions:

New homes

1.	Do you agree with the Government's preference for a CO ₂ saving of 40% reduction in carbon dioxide emissions compared to Part L 2010.		
	No change to 2010		
	40% CO ₂ saving		
	25% CO ₂ saving	X	
	Something else (please explain below)		
	Don't know		

Yes

Rockwool supports the introduction of a 25% CO₂ saving target provided an approach combining fabric performance and renewables is taken.

Challenging targets for carbon reduction can encourage the design of cost-effective fabric solutions combining high performance fabric measures with Low and Zero Carbon Technologies setting a smoother transition to building Zero Carbon Homes in the future. Design flexibility and innovation will be critical to making this process happen and the Regulations should not restrict this by being overly prescriptive in setting very high targets for fabric elements which are unrealistic and stifle a creative approach to design.

The economic conditions that accompanied the last revision of the Building Regulations in 2010, and the resulting low levels of housebuilding that have followed, has created an unusual situation in which this revision of the Regulations cannot be done on the basis of the lessons learned from the last phase. As the 2013 Regulations are a critical step on the path to Zero Carbon, a robust framework must be in place to capture the learning over the coming years in terms of what designs can be shown to deliver high performance buildings in a cost effective way and also to capture the experience of the people who design, build and occupy these buildings to develop knowledge ahead of the introduction of Zero Carbon.

Furthermore, the impact assessment states that the rate of housebuilding in Wales has almost halved over recent years. Recovery in the construction market will be a significant benefit to the Welsh economy and would help to meet other Welsh Government targets such as increasing the supply of affordable housing. As the performance of energy efficient homes is not yet reflected in the sale or rental value, the additional costs of meeting the higher target would be borne by a construction industry which is already experiencing very difficult economic conditions. A 25% CO₂ reduction target combining fabric performance and renewable technologies does not place excessive burdens on the industry which would harm the recovery of the construction sector.

2.	Do you agree with the proposal for an 'aggregate' approach to CO ₂ target setting for new homes in 2015? The CO ₂ target for any individual dwelling varies depending on the ease with which the building can achieve the target, with the overall required CO ₂ saving achieved when aggregated over the build mix.

Don't know

Comments

Rockwool supports the proposal for an 'aggregate' approach to CO_2 target setting for new homes in 2015. Such an approach recognises the potential for different house types to contribute towards an overall target and therefore does not place undue burdens on certain house types while not realising the full potential of others.

Do you agree with the proposal for a compliant option based on a consistent recipe of elemental specifications for fabric, services plus an additional CO_2 saving equivalent to an amount of photovoltaic (PV). Please justify your choice.			
Yes X No Don't know			
Comments			
Rockwool agrees with the proposal for a compliant option based on a recipe of elemental specifications. This option provides a simplified and flexible approach to compliance.			
The main difference between the recipes is the required system efficiency for each fuel, which is appropriate for the heating system type. By adopting this approach to different fu types, there is no need for a separate fuel factor. Do you agree with the proposed approach?			
Yes X No Don't know			
Comments			
This is a simpler approach than using fuel factors.			
for the CO ₂ savings proposed, are the recipe specifications a sensible way of achieving nem? Please justify your choice.			
Yes No X Don't know			
Comments			
Although Rockwool agrees with a recipe style approach we have concerns that the elemental recipe values are too onerous and impractical to achieve for a 25% CO ₂ reduction.			
Recipes should incorporate renewables in combination with fabric measures for the 25% CO ₂ reduction target to make the elemental			

recipe values practically and economically achievable.

ed on dwellings, do you
x
lues for fabric elements in nesion in the technical guidance

Do you agree with the changes to the 'backstop' values proposed? Please explain your

8.

and product manufacturing) has not been modelled however it

should be given serious consideration.

Comments

Smaller new non-domestic buildings which are domestic in nature should be incorporated under Part L1A. Other small non-domestic buildings which are not domestic in nature should be accommodated under the proposed Notional Building. For certain constructions e.g. top-lit metal warehouse style constructions, an increased air permeability value should be applied to reflect the increased difficulty in achieving very low air permeability values in buildings of this size and type.

19.	Although we recognise that some buildings may need to be serviced in a particular way for legitimate functional or environmental reasons, should Part L incentivise a lower carbon servicing strategy (as with the current Energy Performance Certificate methodology), by basing the notional building on mixed-mode ventilation?
	Yes No Don't know X
	Comments
	Building Regulations should promote the use of natural lighting and ventilation where practical.
20.	Do you have any other comments on the proposed changes to Approved Document L2A o the non-domestic National Calculation Methodology? Please make it clear which issue eac comment relates to by identifying the relevant paragraph number.
	Comments
	Rockwool supports the ambition of the Government to lead the development of a low carbon economy however in times of economic constraint, too far a deviation from the requirements applied in other parts of the UK could create compliance issues and have unintended economic impacts. Limiting the deviation in requirements would support development in Wales.
21.	The Impact Assessment makes a number of assumptions on the costs of fabric/services/renewables, new build rates, etc for new non-domestic buildings. Do you think these assumptions are fair and reasonable? Please justify your views.
	Yes No Don't know X
	Comments

22.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for new non-domestic buildings?				
	Please justify your view and provide alternative evidence if necessary.				
	Yes No Don't know 🗴				
	Comments				
Cun	nulative impact of policies				
23.	Overall, do you think the assessment of the impact on development is broadly fair and reasonable? Please justify your view and provide alternative evidence if necessary.				
	Yes x No Don't know				
	Comments				
	Rockwool believes that the assessment of the impact on development is broadly fair and reasonable however we do not share the view that additional capital costs can be passed on through higher property prices meaning the burden lies with the				
Nati	onal Planning Policy Review				
24.	What role should planning play in facilitating higher carbon standards? Should it focus on facilitating site wide energy opportunities that will be needed as we move towards zero or near zero carbon buildings?				
	Views				
	The role of planning should be advisory, highlighting where opportunities exist for community or site schemes such as community heating or on-site renewables.				
25.	What are the implications from future (and regular) changes to the Code for Sustainable Homes and BREEAM on the implementation of the policy?				
	Views				
	De-facto regulations such as BREEAM and CfSH present disproportionate economic and practical burdens on developers. Many of the issues dealt with under the schemes could and should be part of the planning and building regulation process provided there is a robust framework for compliance and enforcement from				

Building Control and Local Planning.

26.	Are the costs of assessment and certification now disproportionate to the costs and benefits of achieving a minimum sustainable buildings standard level?
	Yes x No Don't know
	Comments
	Yes we believe the costs of assessment and certification are disproportionate to the costs and benefits of achieving a minimum sustainable buildings standard level where the key issues are already covered under Building Regulations.
77	What about the the vale of least planning outbouities in acting least standards about and

27. What should be the role of local planning authorities in setting local standards above and beyond Building Regulations? How can we ensure there is a level playing field of standards across Wales?

Views

The role of local planning authorities should be in implementation and enforcement of standards and not in setting additional requirements. Simplification and standardisation of requirements reduces the complexity which would increase compliance. Increased compliance across the board would have greater benefit than locally applied enhanced standards.

28. What do you see as the positive/negative impacts of removing Part B of the policy expecting buildings to be certified against Code/BREEAM?

Views

The positive impacts of removing Part B of the policy would be to reduce complexity and the disproportionate cost burden of additional certification. However the certification framework acts as an enforcement mechanism and it must be ensured that an alternative robust framework for enforcement of regulatory requirements will be in place.

An advantage of building sustainability assessment schemes such as BREEAM is that a holistic approach is taken to assessing key building performance criteria such as the acoustic environment, embodied environmental impact and end-of-life considerations aligned to building function so designers give proper consideration to them early in the design process. Such an approach could be achieved by greater integration of the various parts of Building Regulations covering thermal, fire, acoustic etc based on the specified building function so that full consideration is given to a wide range of impacts of the building on its occupants throughout its lifetime early in the design process when amendments can be made to mitigate negative impacts.

33.	Do you agree with the proposal to raise performance standards for domestic extensions? Please explain your answer.			
	Yes X	No 🗌	Don't know	
	Comments			

Rockwool agress with requirements to improve the energy performance of existing dwellings including raising the performance standards for domestic extensions. As extensions works invariably increase the carbon footprint of a dwelling, we strongly believe that consequential impovements should be introduced as a means of mitigating the extra CO₂ production.

The proposed wall U-values of 0.21 for domestic extensions is a significant jump from the current standards and is not proportional to the other proposed changes in elemental U-values.

From a manufacturer's perspective we believe that the elemental performance values proposed for walls and roofs should be in accordance with the English Part L proposals to introduce consistency in a cross-border supply chain.

34.	Do you agree with the proposal to raise performance standards for non-domestic extensions? Please explain your answer.
	Yes x No Don't know
	Comments
	Rockwool agrees with requirements to improve the energy performance of existing non-domestic buildings including raising the performance standards for extensions. As the majority of non-domestic extensions take place on buildings under the current 1000m ² cap for consequential improvements, we strongly believe that consequential improvements requirements should be extended
35.	Do you agree that the exemption for conservatories or porches should be removed where an individual room heat or air conditioning unit is installed? How effective would this chang be in limiting energy use/emissions, or are there other ways by which energy performance might be improved where conservatories or porches are installed?
	Yes No Don't know X
	Comments
	Introducing such a requirement would be difficult to police.
36.	Do you agree with the proposal to require consequential improvements upon extensions or increases in habitable space in existing homes below 1000m ² ? Please explain your view. Yes X No Don't know Comments
	Rockwool strongly supports the proposal to require consequential improvements upon extensions or increases in habitable space in all buildings.
	The economic and environmental benefit potential of upgrading the energy efficiency of existing homes far exceeds that available from raising standards for new build homes. The recent launch of the Green Deal provides a route to avoiding the burden of upfront costs. The Green Deal framework for assessment and installer accreditation also means that homeowners would only receive measures that are suitable for their property and professionally

installed by qualified individuals thus securing a reduction in energy

use and improving the comfort of their homes.

The consultation explains that the regulatory requirement for consequential improvements

37.

Rockwool believes that the introduction of Consequential Improvements have the potential to increase repair and improvement activity.

Introducing a requirement to carry out a Green Deal Assessment as a consequence of extending or increasing the habitable space of a dwelling will also increase homeowner awareness of the availability of the Green Deal and ECO as mechanisms to support the installation of energy efficiency measures. This will increase the demand for Green Deal Assessments and installations of energy efficiency measures from local tradespeople.

39.	Do you agree with the proposal to introduce consequential improvements upon extensions
	or increases in habitable space in non-domestic buildings under 1000m ² ? Please explain
	your view.

res X No	Don't know	
----------	------------	--

Comments

Rockwool strongly supports the proposal to require consequential improvements upon extensions or increases in habitable space in existing non-domestic buildings under $1000m^2$. The scale of the task in improving the energy efficiency of existing buildings is well understood and a step change is required in the way they are dealt with; consequential improvements represent a way to achieve this.

The introduction of the Green Deal as a complementary policy measure removes the burden of upfront costs. The Green Deal and consequential improvements can support and drive one another. The Green Deal framework includes quality assurances and protections which can also be applied to consequential improvements to ensure the full potential of the policy measure is unlocked. To achieve this, Green Deal assessments should form the basis of assessing requirements. The assessment being done under the Green Deal framework does not oblige the building owner to pursue the Green Deal as a financing route but ensures that the assessment is carried out by a qualified, accredited assessor and the measures recommended fit the criteria of being "technically, functionally and economically feasible" for the purposes of consequential improvements. A requirement to undertake a Green Deal Assessment upon extensions or increases in habitable space should be introduced as an absolute minimum. Green Deal Assessments are expected to cost around £112.50 with most being largely or wholly subsidised by Green Deal providers which does not represent an undue burden on building owners.

Using a Green Deal Assessment as the basis for assessing requirements provides a simple means for building control bodies to assess compliance as the Green Deal Assessment Report would act as evidence of an assessment taking place, the level of existing insulation, the suitability of the property for the measures that are required to be installed and would also list the opportunities for improvement that are technically, functionally and economically feasible.

42. Do you have any other comments on the proposed changes to Approved Document L1B? Please make it clear which issue each comment relates to by identifying the relevant paragraph number.

Rockwool agree with	the values in	Table 3 for	retained	thermal
elements should not	change.			

The proposed wall U-values of 0.21 for domestic extensions is a significant jump from the current standards and is not proportional to the other proposed changes in elemental U-values.

From a manufacturer's perspective we believe that the elemental performance values proposed for walls and roofs should be in accordance with the English Part L proposals to introduce consistency in a cross-border supply chain.

43. Do you have any other comments on the proposed changes to Approved Document L2B? Please make it clear which issue each comment relates to by identifying the relevant paragraph number.

Comments

Rockwool agrees with the proposals to differentiate between buildings that are essentially domestic in character and other nondomestic buildings. However the proposed standards for buildings that are essentially domestic in character in Table 4 L2B do not correlate to the proposed standards in Table 1 L1B.

The proposed wall U-values of 0.2 (?) for non-domestic extensions in buildings which are essentially domestic in character is a significant jump from the current standards and is not proportional to the other proposed changes in elemental U-values.

1.	Do you think that the Impact Assessment is a fair and reasonable assessment of the potential costs and benefits of raising the performance standards for replacement domestic windows and domestic/non-domestic extensions? Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know X
	Comments
5.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for consequential improvements in existing homes? Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know X

The checklist should also reference other parts of the Building Regulations to ensure that full consideration is also given to other

key building performance indicators

should be incorporated under AD L1A. Such an approach will in theory make the compliance process simpler and create more energy savings as these buildings will be benchmarked against a methodology that was specifically created for this building type.

bh.

¹⁴ A PA\$

Additional views and suggestions for addressing compliance and performance issues in 52. new non domestic buildings would be welcome.

Comments

There is an inconsistency between Part L1A and Part L2A whereby there is no requirement to restrict heat loss via cavity party wall constructions in non-domestic buildings despite the regulations for domestic buildings recognising the significant heat loss that occurs via uninsulated cavity party walls. Failure to take account of this phenomonen will have a significant impact on the as-built performance of a building.

There also needs to be a closer alignment in checking compliance between what was specified at the design stage and what was actually used in construction. Currently most assessors will simply be supplying the BRUKL and SBEM output documents which will detail each area of the building i.e. U-values, HVAC etc and if these areas are within L2A values and you get a 'pass' on the BER – TER check, the calculation is approved. There appears to be very little in depth check of the input values and the calculations themselves. This continues for the as built SBEM calculation – the calculations are approved after only superficial, administrative editing.

There also needs to be more rigour applied to air testing so that failures are highlighted early enough in the process for remedial works to be carried out in an attempt to make the building perform as designed.

We would recommed that work is undertaken to provide updated versions of generic Robust Construction Details for limiting thermal bridging and air leakage for all construction types.

53.	Is the newly formatted ADL1B easier to understand and use?
	Yes x No Don't know
	Comments
	Rockwool agrees that the newly formatted ADL1B will be much easier to understand and use.

Are there any further amendments to the newly formatted ADL1B that you would recommend? If so, please provide details.
Yes No X Don't know
Comments
We have no further changes to the formatting of ADL1B to recommend.
How do the consultation proposals impact on the work of Local Authorities and Approved Inspectors? Please give positive and negative impacts.
Comments
This is not within our area of expertise.
We have asked a number of specific questions. If you have any related issues which we have not specifically addressed, please use this space to report them:
Please enter here:

We have made a number of comments and proposals throughout the consultation which can be summarised as follows:

- 1. Ensure that energy efficient building design:
- Is carried out on a whole building basis
- Allows design flexibility and innovation

Realistic fabric requirements introduced alongside challenging CO₂ reduction targets enables more design flexibility and innovation in meeting these challenging new targets and recognises that the construction products market will change and new cost-effective solutions will develop if given the freedom to do so.

2. Minimise the "as-built" versus "as-designed" performance gap by encouraging higher standards of on-site installation through the introduction of minimum requirements for design, on-site monitoring and application of appropriate design safety factors when a quality assurance process is not adopted.

Rockwool would strongly support a proposal to introduce a quality assurance standard covering design and installation. Such a standard could have a significant positive impact on the performance of buildings provided that appropriate levels of design safety factors are introduced for non-adoption of a quality assurance process. We propose that an appropriate level would be no less than 10%

3. Maximise the opportunities for improving the energy efficiency of existing buildings.

Rockwool strongly supports the proposals to extend consequential improvements and believe a requirement to undertake a Green Deal Assessment upon extensions or increases in habitable space should be introduced as an absolute minimum. Green Deal Assessments are expected to cost around £112.50 with most being largely or wholly subsidised by Green Deal providers which does not represent an undue burden on building owners.

The significant heat loss through cavity party walls is already recognised within Part L1A and should also be considered by other parts of the Approved Document for example by treating cavity party wall constructions as controlled elements therefore triggering improvement requirements when undergoing renovation. Furthermore, works on controlled elements should trigger consequential improvements where upgrades of the elements being renovated to the required standards are not practical or cost-effective.

4. Greater integration of the various parts of Building Regulations covering thermal, fire, acoustic etc based on the specified building function.

Key building performance criteria such as the acoustic environment, fire safety, embodied environmental impact, end-of-life considerations, etc should be recognised in a more holistic way that better represent the building function so that designers give proper consideration to them earlier in the design process. This can be achieved through closer integration of the separate parts of the Building Regulations. This holistic approach is successfully applied to building sustainability assessment methodologies such as BREEAM, and ensures that full consideration is given to a wide range of impacts of the building on its occupants throughout its lifetime early in the design process when amendments can be made to mitigate negative impacts.

2012 consultation on changes to the

Bui	Iding Reg	ulations in Wales	
Part	t L (Conserv	ation of fuel and pow	er)
	sultation oonse Form	Richard Lawrence Building Control Manager Pembrokeshire County Co	uncil
(ix)		expressed on this consultons on the consulton on the cons	tation an official response from the personal views?
	Organisational	X Personal Views	
(x)		any group? If yes please s ──	ultation in connection with your membership state name of group:
	Name of group	:	
(xi)	Please tick the	e one box that best descri	bes your organisation:
Build	ers/Developers	:	Property Management:

Builders/Developers:	Property Management:	
Builder / Main contractor:	Housing association (registered social landlord)	
Builder/ Small builder: (extensions/repairs/maintenance, etc)	Residential landlord, private sector	
Installer/ special sub-contractor Commercial developer	Commercial	
House builder	Public sector	

Building occupier:		Building Control Bodies:	
Home owner		Local authority building control	x
Tenant (residential)		Approved Inspector	
Commercial Building			
Energy Sector		Fire and Rescue Authority	
Designers/Engineers/Surveyor	s:	Specific Interest:	
Architect		Competent person scheme operator	
Civil/Structural engineer			
Building services engineer		National representative or trade body	
Surveyor		Professional body or institution	
		Research/ academic organisation	

Manu	facturer/ Supply Chain	Other (please specify)
(xii)	Please tick the <i>one</i> box which best desc business?	cribes the size of your or your organisation's
	Micro – typically 0 to 9 full-time or equivale	nt employees (incl. sole traders)
	Small – typically 10 to 49 full-time or equiva	alent employees
	Medium – typically 50 to 249 full-time or ed	quivalent employees
	Large – typically 250+ full-time or equivalent	nt employees x
	None of the above (please specify)	
(vi)	Are you or your organisation a member	of a competent person scheme?
	Yes No x	
	Name of scheme:	
(vii)	Would you be happy for us to contact ye consultation?	ou again in relation to this
	Yes x No	

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you provide to this survey would be likely to identify you irrespective of the removal of your overt personal data, then we should be grateful if you would indicate that, and the likely reasons, in your response, for example in the relevant comments box.

Questions:

New homes

1.	Do you agree with the Government's preference for a CO ₂ saving of 40% reduction in carbon dioxide emissions compared to Part L 2010.
	No change to 2010
	40% CO ₂ saving
	25% CO ₂ saving
	Something else (please explain below)
	Don't know
	Comments
	We understand that this higher standard will need to be met in due course. We therefore suggest that the changes are made in a single transition to avoid repeated changes to the requirements.
2.	Do you agree with the proposal for an 'aggregate' approach to CO ₂ target setting for new homes in 2015? The CO ₂ target for any individual dwelling varies depending on the ease with which the building can achieve the target, with the overall required CO ₂ saving achieved when aggregated over the build mix. Yes X No Don't know
	Comments
	Yes. This will ensure that Pt L targets the areas where improvements can be made most easily and will allow appropriate building types to be developed (i.e. there will not be a penalty for the development of energy efficient building types.)
3.	Do you agree with the proposal for a compliant option based on a consistent recipe of elemental specifications for fabric, services plus an additional CO ₂ saving equivalent to an amount of photovoltaic (PV). Please justify your choice.
	Yes X No Don't know
	Comments
	We agree in principle with the recipe approach. It will improve the understanding of how to comply with Part L. However development control planners will need to be aware that applications are likely to be presented using the standard approach and pv's. This may

cause confrontation if it does not meet with local planning policy.

We understand that the impact assessment assumes that the additional costs will be recovered as savings over the life of the building. Increased property costs are likely to further slow the housing market particularly given the current difficulty in obtaining mortgages. We do not believe that developers will reduce their return on investment and it is unlikely that land values will drop significantly in the short term since there is no increase in land availability. The contributions to social housing will therefore suffer as a result of the increased costs.

Comments	
Which approach should be utilized to incorpo technologies into the setting of the Target Embuildings?	
Fixed carbon reduction (in kg.CO ₂ /m ² /year)	x
Percentage of roof area of PV	
Other	
Don't know	
Please give reasons for your choice	
Non domestic buildings would usually be de technical experts. The more generic approar appropriate. However small non domestic de domestic scale should relate to the recipe appercentage of roof area of PV.	ch is therefore evelopments on a
The proposals explain the Government's pref CO ₂ performance standards for new non-domoption do you prefer and why?	
No change	
Target A: 10% aggregate improvement (1% F	'V)
Target B: 11% aggregate improvement (No P	(V)
Target C: 20% aggregate improvement (5% F	PV)
Don't know	x

21.	The Impact Assessment makes a number of assumptions on the costs of fabric/services/renewables, new build rates, etc for new non-domestic buildings. Do you think these assumptions are fair and reasonable? Please justify your views.			
	Yes No Don't know			
	Comments			
	The analysis shows the additional costs being offset by future savings. Industry is unlikely to accommodate these real upfront costs in the current financial climate. This may further slow any rate of economic recovery.			
22.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for new non-domestic buildings?			
	Please justify your view and provide alternative evidence if necessary.			
	Yes No Don't know X			
	Comments			
Cum	nulative impact of policies			
23.	Overall, do you think the assessment of the impact on development is broadly fair and reasonable? Please justify your view and provide alternative evidence if necessary.			
	Yes No X Don't know			
	Comments			
	The analysis seems to focus on the reduction in land values due to the proposals. We do not believe that land values will reduce in nthe short term since there will not be any increase in land availability yet there is still pressure to create extensive amounts of new housing and supporting infrastructure. The net effect will be increased development costs and reduced social housing contributions until such time that land values adjust.			

National Planning Policy Review

24. What role should planning play in facilitating higher carbon standards? Should it focus on facilitating site wide energy opportunities that will be needed as we move towards zero or near zero carbon buildings?

Views

Energy standards should be set through the BR process to ensure consistency across all developments and to avoid duplication of process. This would suggest that there is little place in the planning process for facilitating higher carbon standards. Planners would however need to be sensitive to the appropriate works necessary to comply with BR's when considering an application.

What are the implications from future (and regular) changes to the Code for Sustainable 25. Homes and BREEAM on the implementation of the policy?

Views

Repeated changes of policy and standards result in confusion in the construction sector and an inability to achieve efficiency savings by bedding in changes e.g. it is difficult to develop and improve standard building designs if the criteria keep changing. It is therefore also difficult to minimise construction defects and improve quality.

26. Are the costs of assessment and certification now disproportionate to the costs and benefits of achieving a minimum sustainable buildings standard level?

Yes	No 🗌	Don't know x
Comments		

27. What should be the role of local planning authorities in setting local standards above and beyond Building Regulations? How can we ensure there is a level playing field of standards across Wales?

Views

Increased local standards are likely to direct developers to other areas where the financial burden on development is lower. Upwardly variable standards would not therefore seem to be appropriate particularly in less wealthy areas of Wales.

What do you see as the positive/negative impacts of removing Part B of the policy 28. expecting buildings to be certified against Code/BREEAM?

е	

Comments

	BR's would provide a single point of contact for ensuring building standards. Therefore reduced determination times and costs.
29.	Is there a better, alternative, way to rewards and secure sustainable buildings (above the regulatory minimum) other than using national planning policy? What opportunities are there for future changes to Building Regulations?
	Views
	Setting appropriate standards in the building regulations would avoid the confusion posed by variable local standards or the need to consider further standards above the regulatory minimum.
30.	To what extent are duplication of standard and approval systems an issue? Would the removal of the PfSB policy assist in reducing duplication?
	Views
	Yes it would avoid duplication.
31.	What opportunities are there for higher standards to be delivered on strategic sites identified as part of the Local Development Plan?
	Views
	This would only apply to very high value sites where demand from developers is high (e.g. major city centre sites.) In most parts of Wales it is likely to deter development.
Exis	sting buildings
32.	Do you agree with the proposal to raise performance standards for domestic replacement windows? Please explain your answer.
	Yes X No Don't know

We understand that high performance windows using insulated frames can be produced now at minimum extra cost.

	ee with the pro ain your answ		erformance	standards for don	nestic extensions?
Yes X	No 🗌	Don't know			
Comments					
are extend	ing properties	g mortgages me rather than mo t of developmer	ving house. 7		
	•	pposal to raise p in your answer.	erformances	standards for nor	n-domestic
Yes X	No 🗌	Don't know			
Comments					
an individua be in limiting	I room heat or g energy use/e	r air conditioning	g unit is insta e there other	lled? How effection ways by which e	be removed where ve would this change energy performance
Comments	NO X	DOIT KNOW _			
This would	be meaningle	ess since it coul	d not be polic	ced in any way.	
					1
increases in	habitable spa	ace in existing h	e consequent omes below	ial improvements 1000m²? Please	upon extensions or explain your view.
Yes X	No	Don't know			
Comments					_
may alread Once the i	dy have been	done under existance are done there	sting grant ai		

37. The consultation explains that the regulatory requirement for consequential improvements upon domestic extensions or increases in habitable space would be limited to a list of

measures comprising a minimum standard of loft insulation, hot water cylinder insulation and the installation of cavity wall insulation.

	Do you agree with this list of measures?	X
	Should this list be different (please explain below)?	
	Another approach (please explain below)	
	Don't know	
	Comments	
38.	What effect do you think the requirements for consequential improvement for repair, maintenance and improvement activity? Please explain your answer.	
	Increase demand	
	Reduce demand	
	No effect	x
	Don't know	
	Comments	
39.	Do you agree with the proposal to introduce consequential improvor increases in habitable space in non-domestic buildings under 1 your view.	vements upon extensions I 000m²? Please explain
	Yes X No Don't know	
	Comments	

The consultation proposes that for non-domestic buildings, any measure from list which is 40. used to generate Green Deal assessments, the list in SBEM used to generate Energy

Performance Certificate recommendations and the existing list of typical consequential improvement measures from Approved Document L2B should be eligible to be a consequential improvement. Do you agree?

Yes	X	<u>. </u>
No]
Prefer a different list (please specify)		
Don't know		
Comments		
Do you agree that there should not be major processed to the building of what are they and how might these be address	ontrol process? If you do	-
Yes No X Don't know		
Comments		
Whilst the proposals are technically feasible, At present many of the improvements proposor of this subsidy is removed then it may impact development.	ed can be subsidised.	
Do you have any other comments on the prop Please make it clear which issue each comme paragraph number.		
Comments		
Do you have any other comments on the prop Please make it clear which issue each comme paragraph number.		
Comments		

44.	Do you think that the Impact Assessment is a fair and reasonable assessment of the potential costs and benefits of raising the performance standards for replacement domestic windows and domestic/non-domestic extensions? Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know X
	Comments
45.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for consequential improvements in existing homes? Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know X
	Comments
46.	Overall, do you think the impact assessment is a fair and reasonable assessment of the potential costs and benefits of the proposed options for consequential improvements in existing non-domestic buildings? Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know X
	Comments
Con	npliance and Performance
	For new dwellings, Welsh Government is proposing to develop a compliance checklist. Do you think such a checklist would be used sufficiently to warrant its development?
	Yes No Don't know
	Comments
	Provided that it is straight forward and useable.

¹⁵ A PAS is a Publically Available Specification, and the PAS would set out a quality assurance approach.

51b.	What are the arguments for and against this approach?	
	Comments	
52.	Additional views and suggestions for addressing compliance and perfornew non domestic buildings would be welcome.	mance issues in
	Comments	
	A compliance check list to ensure that details are built correctly will require the building control body to attend site regularly. It has been suggested that some building control bodies based remotely from an application site do not make regular inspections and in some instances rely on photographs taken by the builder. How will this be	
53.	Is the newly formatted ADL1B easier to understand and use?	
	Yes No Don't know x	
	Comments	
54.	Are there any further amendments to the newly formatted ADL1B that y recommend? If so, please provide details.	ou would
	Yes No Don't know X	
	Comments	

55. How do the consultation proposals impact on the work of Local Authorities and Approved Inspectors? Please give positive and negative impacts.

Comments

A recipe approach will hopefully make checking of plans more straight forward.

The development control planners will need to buy into the new processes and recipe solutions or they will not work.

The use of checklists requires regular site visits to make proper inspections of work. Consideration needs to be given to ensuring that all sectors of the building control industry provide an adequate level of service.

We have asked a number of specific questions. If you have any related issues which we 56. have not specifically addressed, please use this space to report them:

Please enter here:

How will existing planning consents with specific CfSH requirements be dealt with following the introduction of the new Part L? What will the transitional arrangements be?

2012 consultation on changes to the

Building Regulations in Wales

Part L (Conservation of fuel and power)

Minor amendments indicated in red

Consultation

(xv)

Response Form Your name: Kelly Butler

Organisation (if applicable): BEAMA

Please tick the one box that best describes your organisation:

(xiii)	Are the views expressed on this consultation an official response from the organisation you represent or your own personal views?
	Organisational Personal Views
(xiv)	Are your views expressed on this consultation in connection with your membership or support of any group? If yes please state name of group:
	Yes No V
	Name of group:

Builders/Developers: Builder / Main contractor: Builder/ Small builder: (extensions/repairs/maintenance Installer/ special sub-contractor Commercial developer House builder	, etc)	Property Management: Housing association (registered social landlord) Residential landlord, private sector Commercial Public sector	
Building occupier:		Building Control Bodies:	
Home owner		Local authority building control	
Tenant (residential)		Approved Inspector	
Commercial Building			
Energy Sector		Fire and Rescue Authority	

consultation?

	Yes No No
proted contai ensurd howed the Fr consu disclo supply you pi perso	fill process any personal information that you provide us with in accordance with the data stion principles in the Data Protection Act 1998. In particular, we shall protect all responses ning personal information by means of all appropriate technical security measures and that they are only accessible to those with an operational need to see them. You should, wer, be aware that as a public body, the Welsh Government is subject to the requirements of seedom of Information Act 2000, and may receive requests for all responses to this lation. If such requests are received we shall take all steps to anonymise responses that we se, by stripping them of the specifically personal data – name and e-mail address – you in responding to this consultation. If, however, you consider that any of the responses that rovide to this survey would be likely to identify you irrespective of the removal of your overtical data, then we should be grateful if you would indicate that, and the likely reasons, in your nice, for example in the relevant comments box.
Que	estions:
New	homes
1.	Do you agree with the Government's preference for a CO ₂ saving of 40% reduction in carbon dioxide emissions compared to Part L 2010.
	No change to 2010
	40% CO ₂ saving
	25% CO ₂ saving
	Something else (please explain below)
	Don't know
	Comments
	This would be an appropriate intermediate step to allow the construction industry to kick start with the regulatory burden of cost. The saving should be mostly covered by fabric improvements.
2.	Do you agree with the proposal for an 'aggregate' approach to CO_2 target setting for new homes in 2015? The CO_2 target for any individual dwelling varies depending on the ease with which the building can achieve the target, with the overall required CO_2 saving achieved when aggregated over the build mix.
	Yes No Don't know

Do you agree with the proposal for a compliant option based on a consistent recipe of elemental specifications for fabric, services plus an additional CO ₂ saving equivalent to the standard of the standard (D).	comments					
elemental specifications for fabric, services plus an additional CO2 saving equivalent						
elemental specifications for fabric, services plus an additional CO2 saving equivalent						
amount of photovoltaic (PV). Please justify your choice.	elemental spe	ecifications fo	or fabric, servi	ces plus an	additional CO	
Yes No Don't know	res	No	Don't know			
Comments	Comments					

4.	The main difference between the recipes is the required system efficiency for each fuel, which is appropriate for the heating system type. By adopting this approach to different fue types, there is no need for a separate fuel factor. Do you agree with the proposed approach?
	Yes No J Don't know
	Comments
	BEAMA favours a fabric first approach which leads to stretching of the compliance demands on the house building industry with a direction towards long term sustainable dwellings (fabric being the longest term sustainable building element). This approach paves the way for house builders to begin utilising the types of building services required for a zero carbon home e.g. mechanical ventilation with heat recovery and electric space heating for low heat demand.
	BEAMA has made it clear since 2004 that retention of the fuel factor is absolutely critical for resistive electric heating to remain a viable option for new build. There are two political imperatives that now support this long term argument:
	Strategic Energy Policy - DECC's Future Heating' Strategy DECC have explicitly stated within their draft heating strategy that the future for low carbon heating is electrically powered resistive heating (for low demand dwellings) and/or heat pumps. We are building new homes that are perfect for electric heating in the long term yet potentially proposing regulation that flies in the face of this strategic direction. CLG wishes to drive towards 'Low Carbon Heating' (ref: Paul Decort presentation 10th February 2012) and BEAMA maintains that low carbon heating is electric.
	Red Tape Challenge and Economic Impact The cost of removing the fuel factor will be a high burden on house builders who wish to use electric resistive heating. Already we are seeing the resistive heating market dry up due to punitive building regulations that are not in line with DECC's mid-to-long term strategic view. A cost of +/- £5k to specify direct electric heating is unsupportable in the current economic and regulatory climate. It would effectively impose a ban on electric heating. It shold be noted that even in retaining the fuel factor with a FEES plus services approach, there is >£2k complaince cost for electric versus heat pump.
	For the CO ₂ savings proposed, are the recipe specifications a sensible way of achieving them? Please justify your choice.
	Yes
	Comments
	We would want to see more performance based flexibility.

In approach prefer?	ning the select	tion of the amou	unt of PV to be in	nstalled on dwe	ellings, do you
Fixed perce	entage of build	ling foundation	area]
Proportion	of gross interr	nal floor area wi	th a practical ca	р]
Don't know					_
Comments					_
homes sho			•	•	bric elements in new technical guidance
Yes 🗸	No	Don't know			
Comments					7
Do you agredecision.	ee with the ch	anges to the 'ba	ackstop' values	proposed? Ple	ase explain your
Yes	No 🗸	Don't know			
Comments					
criterion 2 4.22). If the acceptable	of the Part Lanis is the case backstops a	2013 consultation then we do no street the limit of 10	alues proposed on (Technical G t believe these a m3 for air tightnorse than 5m3 as	uidance para Ire ess is far too	

modelling has shown that air tightness has the greatest impact on

DER.

	Which package of fabric and services should be selected: 7% or 10%? P for your choice.	lease give reasons
7	7%	
1	10%	
С	Don't know	
C	Comments	
	Do you foresee any particular issues for certain categories of building to TER?	meet the TPEC or
Υ	Yes No Don't know	
C	Comments	
_	Comments	
V	Which approach should be utilized to incorporate the contribution of low dechnologies into the setting of the Target Emission Rate (TER), for none buildings?	
V te	Which approach should be utilized to incorporate the contribution of low dechnologies into the setting of the Target Emission Rate (TER), for non-	
V te b	Which approach should be utilized to incorporate the contribution of low dechnologies into the setting of the Target Emission Rate (TER), for none ouildings?	
V te b	Which approach should be utilized to incorporate the contribution of low dechnologies into the setting of the Target Emission Rate (TER), for none ouildings? Fixed carbon reduction (in kg.CO ₂ /m ² /year)	
V teb	Which approach should be utilized to incorporate the contribution of low dechnologies into the setting of the Target Emission Rate (TER), for non couldings? Fixed carbon reduction (in kg.CO ₂ /m²/year) Percentage of roof area of PV	
V teb	Which approach should be utilized to incorporate the contribution of low dechnologies into the setting of the Target Emission Rate (TER), for none ouildings? Fixed carbon reduction (in kg.CO ₂ /m²/year) Percentage of roof area of PV Percentage of floor area of PV	

16.	The proposals explain the Government's preference for a 20% aggregate improvement in CO_2 performance standards for new non-domestic buildings from October 2013 June 2014. Which option do you prefer and why?
	No change
	Target A: 10% aggregate improvement (1% PV)
	Target B: 11% aggregate improvement (No PV)
	Target C: 20% aggregate improvement (5% PV)
	Don't know
	Please give reasons for your choice
17.	Do the proposed 2013 2014 notional buildings as set out in the changes to the National Calculation Methodology seem like a reasonable basis for standards setting? Please provide comments on the method used to develop the notional buildings and particular elements of one or more of the notional buildings, if relevant. Yes No Don't know Comments
,	Do you think that a further recipe should be created for buildings under 250m ² and aligned with the proposed domestic recipe? Are there particular reasons why smaller buildings find compliance with the non-domestic recipes difficult? Please justify your views.
	Yes No Don't know
	Comments

19. Although we recognise that some buildings may need to be serviced in a particular way for legitimate functional or environmental reasons, should Part L incentivise a lower carbon servicing strategy (as with the current Energy Performance Certificate methodology), by

Yes	No	Don't know				
Comments						
]
he non-dom	estic Nation	comments on the al Calculation lentifying the re	Methodolog	y? Please	make it cl	
Comments						
]
enewables,	new build ra	makes a num ates, etc for ne I reasonable?	w non-dome	estic buildir	ngs. Do yo	
enewables, assumptions	new build ra	ates, etc for ne	w non-dome	estic buildir	ngs. Do yo	
enewables,	new build ra are fair and	ates, etc for ne I reasonable?	w non-dome	estic buildir	ngs. Do yo	
enewables, assumptions	new build ra are fair and	ates, etc for ne I reasonable?	w non-dome	estic buildir	ngs. Do yo	
enewables, assumptions	new build ra are fair and	ates, etc for ne I reasonable?	w non-dome	estic buildir	ngs. Do yo	
enewables, assumptions Yes Comments Overall, do y	new build ra are fair and No ou think the	ates, etc for ne I reasonable?	w non-dome	estic buildir y your viev	ngs. Do yo	ou think these
enewables, assumptions es Comments Overall, do y potential cos	new build ra are fair and No	ates, etc for ne I reasonable? Don't know impact assess	w non-dome Please justif	estic buildir y your viev air and reas s for new r	sonable as	ou think these
enewables, assumptions es Comments Overall, do y potential cos	new build ra are fair and No	impact assessifits of the prop	w non-dome Please justif	estic buildir y your viev air and reas s for new r	sonable as	ou think these

Cumulative impact of policies

3.	Overall, do you think the assessment of the impact on development is broadly fair and reasonable? Please justify your view and provide alternative evidence if necessary.
	Yes No Don't know
	Comments
latio	onal Planning Policy Review
4.	What role should planning play in facilitating higher carbon standards? Should it focus on facilitating site wide energy opportunities that will be needed as we move towards zero or near zero carbon buildings?
	Views
5.	What are the implications from future (and regular) changes to the Code for Sustainable Homes and BREEAM on the implementation of the policy?
	Views
S.	Are the costs of assessment and certification now disproportionate to the costs and benefits
	of achieving a minimum sustainable buildings standard level?
	Yes No Don't know
	Comments

27. What should be the role of local planning authorities in setting local standards above and beyond Building Regulations? How can we ensure there is a level playing field of standards across Wales?

Existing buildings

32. Do you agree with the proposal to raise performance standards for domestic replacement windows? Please explain your answer.

	agree with the proposal to raise explain your answer.	performance standards for domestic extensio
Yes	No Don't know	
Comme	nts	
•	agree with the proposal to raise ns? Please explain your answe	performance standards for non-domestic r.
Yes	No Don't know	
Comme	nts	
an indiv be in lim	dual room heat or air conditionii	nservatories or porches should be removed which are unit is installed? How effective would this care there other ways by which energy performs or porches are installed?
Yes _	No Don't know	
Comme	nts	

Comments			_
Appendix D: Building Ser There are inconsistencies in table D1. The third par "Separate temperature of using room thermostats of zones; or individual radial other than in bathrooms	s in the requirements agraph reads that: ontrols of heating zon or programmable rootor controls such as	nes should be provided m thermostats in all TRVs on all radiators	
This does not make it cle one zone in order to achi should be rewritten as:			
"Separate temperature cousing room thermostats of main zone, and either:	or programmable roo	m thermostats in the	
a) a room thermostab) individual radiatorin the other zones."	, •		
In addition to this it seem on all radiators as a matt down.		•	
Do you have any other co Please make it clear which paragraph number.		•	
Comments			
Do you think that the Impa potential costs and benefit windows and domestic/no alternative evidence if nec	s of raising the perfon- domestic extension	rmance standards for <mark>r</mark>	eplacement d c

^{52.} Additional views and suggestions for addressing compliance and performance issues in new non domestic buildings would be welcome.

¹⁶ A PAS is a Publically Available Specification, and the PAS would set out a quality assurance approach.

	omments
ls [·]	the newly formatted ADL1B easier to understand and use?
Ye	es No Don't know
Сс	omments
	re there any further amendments to the newly formatted ADL1B that you would commend? If so, please provide details.
Ye	es No Don't know
Cc	omments
	ow do the consultation proposals impact on the work of Local Authorities and App spectors? Please give positive and negative impacts.
Сс	omments
	e have asked a number of specific questions. If you have any related issues which we not specifically addressed, please use this space to report them:
ııa	
	ease enter here:

#68 - Coed Cymru

Yr Hen Felin Lifio Tregynon Y Drenewydd, Powys, SY16 3PL



The Old Sawmill Tregynon Newtown, Powys, SY16 3PL

Response to the consultation on Part L Review of the Building Regulations October 2012

Introduction

Building Regulations have thus far been used to set a minimum requirement for building performance in terms of energy efficiency, relating to Part L, and have not typically been seen as a mechanism for setting aspirational targets. However, national, UK and EU legislation drive carbon dioxide emission reductions. The European Energy Performance of Buildings Directive target of 'nearly zero energy' for all buildings by 2021 is an overriding consideration and provides the context for the current consultation exercise, pushing for higher energy efficient standards in all member states.

The Code for Sustainable Homes and BREEAM frameworks have set higher standards through planning requirements for buildings in Wales, and supported a number of non-energy related issues. The proposal to remove Planning for Sustainable Buildings (TAN 22) leaves a large number of 'residual' issues unsupported which need to be addressed by some other means. Welsh Government has not made it clear which route will be taken to deal with these issues and, while it is logical to propose a more streamlined approach to the various legislative requirements, it seems unwise to propose their removal without having adequate alternative redress. Although separate to Part L, these issues have severe environmental implications if left unaccounted for. On a more general note, progressing in Wales the parallel issues with England and Scotland is important to avoid creating confusion amongst builders and small businesses, creating disparate regulations in each country, for example, with different window performance requirements.

New Homes

There is no mention of the PassivHaus standard in the consultation document; there is room for a discussion on this issue which sets higher performance requirements and the implications for manufacturers and the supply chain in Wales. It stipulates that windows need to be triple glazed, for example. The debate over the adoption of the PH standards has three main arguments:

- 1. The suitability of higher performing components and services in the more temperate UK climate and their comparative performance
- 2. The robustness and reliability of the MVHR units used in the PH standard and their user acceptability
- 3. The procurement of a PH Planning Package certification process which favours importing certified products and their respective supply chains rather than a Welsh supply chain

Near PassivHaus standards exist such as the AECB Gold and the near PassivHaus Tŷ Unnos Visitor Centre built at Ebbw Vale¹⁷ which support a Welsh supply chain. More research is needed to identify which systems can reach which standards, particularly in the case of windows, and a method of assembling timber components without thermal bridging and rain ingress in the exposed wet and windy weather of many parts of Wales.

Existing Buildings

Wales has some of the oldest buildings in Europe and a high proportion of these are solid walled, hard to treat buildings. Recent research by organisations such as the Sustainable Traditional Buildings Alliance and SusREF point to the need for holistic rather than piecemeal solutions to improving energy efficiency, which has been the approach so far. The Green Deal proposals for Wales are not at all clear and a number of opportunities exist to test different approaches to energy efficiency improvements, such as external and internal wall insulation and to ensure the absence of cold bridging of all elements of the fabric of a building.

It is also unclear why windows have been left out of the consequential improvements measures. Heat losses through windows account for between 11-20% of total fabric losses; improving the energy efficiency of replacement windows cannot be ignored. What discussion took place to leave replacement windows out of the consideration for consequential improvements - isn't this a lost opportunity?

Carbon Sequestration and the role of Timber

As building energy efficiency standards improve, operational energy becomes the lesser lifecycle consideration compared to the embodied energy of the building. Timber used in buildings can store carbon over its lifetime and therefore contribute to removing atmospheric carbon in this period.

Wood for Good's 'Wood First' Rule encourages local authorities to consider using timber first in the construction of their buildings and London Borough of Hackney is considering this option for its public portfolio¹⁸. The consideration of

¹⁷

 $[\]frac{http://www.innovateuk.org/\ assets/pdf/casestudies/case\%20study\%20tyunnos\ welshecohouse\ 111010\ \underline{v4.pdf}$

¹⁸ http://www.ttf.co.uk/Article/Detail.aspx?ArticleUid=cbab0e43-4fc5-4098-a0ab-30a9995a2c88

materials in buildings is catered for by the Code for Sustainable Homes and BREEAM. If the Welsh Government proposal to remove the Code and BREEAM regimes is adopted, there is no mechanism to support the use of timber, and home grown timber in particular, in construction, which is one of the aims of the RDP-sponsored Supply Chain Efficiencies Scheme projects¹⁹. It seems the time is ripe, while devolving the new Welsh Regulations, to develop a way of measuring embodied carbon and adopting the metrics in a meaningful way in order to benchmark the carbon properties of different buildings and enable accurate comparisons of their sustainability credentials.

For further information please contact:

Haf Roberts Timber Supply Chain Manager Coed Cymru

¹⁹ http://wales.gov.uk/docs/drah/publications/110713sceoverviewv3en.pdf

#71 - British Glass Manufacturers' Confederation

2012 consultation on changes to the

Building Regulations in Wales

Part L (Conservation of fuel and power)

Consultation Response Form	Your name: Mr Mark Bristow (British Glass internal confederation contact - John Stockdale)
	Organisation (if applicable): British Glass Manufacturers' Confederation – Flat Glass Manufacturers' FITP Working Group
•	expressed on this consultation an official response from the ou represent or your own personal views?
Organisational	x Personal Views
	s expressed on this consultation in connection with your membership any group? If yes please state name of group:
Yes x No	
Name of group	:
 	FITP working party - with representatives from all 3 flat glass s in the UK: Guardian, NSG and St Gobain.

(xix) Please tick the one box that best describes your organisation:

Builders/Developers:		Property Management:	
Builder / Main contractor:		Housing association (registered social landlord)	
Builder/ Small builder: (extensions/repairs/maintenance, Installer/ special sub-contractor Commercial developer House builder	etc)	Residential landlord, private sector Commercial Public sector	
Building occupier:		Building Control Bodies:	
Home owner		Local authority building control	
Tenant (residential)		Approved Inspector	
Commercial Building			
Energy Sector		Fire and Rescue Authority	

Desig	ners/Engineers/Surveyor	s:	Specific Interest:	
Archite	ect		Competent person scheme operator	
	Structural engineer ng services engineer		National representative or trade body	
Surve	yor		Professional body or institution	
			Research/ academic organisation	
Manu	facturer/ Supply Chain	X	Other (please specify)	
(xx)	Please tick the <i>one</i> box v	which best desc	cribes the size of your or your o	rganisation's
	Micro – typically 0 to 9 full-	-time or equivale	nt employees (incl. sole traders)	
	Small – typically 10 to 49 f	ull-time or equiv	alent employees	
	Medium – typically 50 to 2	49 full-time or ed	quivalent employees	
	Large – typically 250+ full-	time or equivale	nt employees	x
	\•	• • •	ers of associations represented ses to multi-national companies.	
(vi)	Are you or your organisa	ation a member	of a competent person scheme	?
	Yes No x			
	Name of scheme:			

Yes	X	No	
1 03	^	110	

WG will process any personal information that you provide us with in accordance with the data protection principles in the Data Protection Act 1998. In particular, we shall protect all responses containing personal information by means of all appropriate technical security measures and ensure that they are only accessible to those with an operational need to see them. You should, however, be aware that as a public body, the Welsh Government is subject to the requirements of the Freedom of Information Act 2000, and may receive requests for all responses to this consultation. If such requests are received we shall take all steps to anonymise responses that we disclose, by stripping them of the specifically personal data – name and e-mail address – you supply in responding to this consultation. If, however, you consider that any of the responses that you provide to this survey would be likely to identify you irrespective of the removal of your overt personal data, then we should be grateful if you would indicate that, and the likely reasons, in your response, for example in the relevant comments box.

Questions:

New homes

1.

carbon dioxide emissions compared to Part L 2010.	
No change to 2010	
40% CO ₂ saving	X
25% CO ₂ saving	
Something else (please explain below)	

Do you agree with the Government's preference for a CO₂ saving of 40% reduction in

Comments

Don't know

40% preferred; so as to avoid a more dramatic change when zero carbon standards are introduced in future revisions.

2. Do you agree with the proposal for an 'aggregate' approach to CO₂ target setting for new homes in 2015? The CO₂ target for any individual dwelling varies depending on the ease with which the building can achieve the target, with the overall required CO₂ saving achieved when aggregated over the build mix.

Yes X Comments	No D	Oon't know			
Comments					
(generally) essential to	maintenance-from ensure the built	ee. A high stan Iding remains e	permanent, cons ndard of fabric pe nergy-efficient a ailing, under-perf	erformance is	
					I
which is app	ropriate for the h	neating system	type. By adoptin	stem efficiency for one of the standard standard standard for the proposition of the prop	differe

5. For the CO₂ savings proposed, are the recipe specifications a sensible way of achieving

Yes X	No	Don't know				
Comments	S					
The spec	cifications are	available with c	urrent technology	'.		
In approac prefer?	hing the selec	tion of the amo	unt of PV to be in	stalled o	n dwellings, do y	'ou
Fixed perc	entage of buil	ding foundation	area		X	
Proportion	of gross inter	nal floor area w	ith a practical cap)		
Don't knov	_					
DON L KNOV	V					
Comments	}					
			most likely to be	placed)	will	
be similaı	r to foundation	area.				
		•	exibility 'backstop			
	ould be change mandatory?	ed from the curi	ent reasonable p	rovision i	in the technical g	juic
Yes	No x	Don't know				
Comments	3					
	ant evetem in	which the backs	stop values are re	garded a	as	
The curre	iii oyoteiii, iii					

12.

13.

14.

For the reasons given in our comments on Q9, we think the introduction of the PEC creates burdens on designers and builders, without commensurate benefit.
Which package of fabric and services should be selected: 7% or 10%? Please give reasons for your choice.
7%
10% X
Don't know
Comments
We prefer the 10% option which achieves 11% CO2 reduction without renewables (table 3.3 in the Consultation Document). It is important to maximise the savings through the use of appropriate building fabric, and to minimise the reliance on energy supply (whether renewable or not), so that the building remains energy-efficient, comfortable and habitable in the event of the energy supply system under-performing due to e.g. failure, disruption or lack of maintenance.
Do you foresee any particular issues for certain categories of building to meet the TPEC or TER?
Yes No Don't know X
Comments
Not qualified to comment

Do you think that a further recipe should be created for buildings under 250m² and aligned with the proposed domestic recipe? Are there particular reasons why smaller buildings find

26. Are the costs of assessment and certification now disproportionate to the costs and benefits of achieving a minimum sustainable buildings standard level?

be sufficient.

Existing buildings

No comment

Views

	es No Don't know X
C	omments
	The question asks if we agree with the proposal to raise standards, but the Consultation Document proposes no change in standards! It is therefore inconsistent with the content of the Consultation Document. WER B and 1.4 should be introduced but there should be a target of A & 1.2. Windows are available that achieve B or 1.4 and many installations achieve WERs of B & A.
	No new technology is required, as the products offering this performance (and better) are readily available. Having no change to window performance values goes against the stated ambition of the Welsh Government to have the tightest approach to building standards, Section 2.3 Para 26 of the document: "Current analysis indicates some potential to further raise performance standards for extensions and replacement windows and potential improvements in controlled services like non-domestic lighting".
	We do not wish to see any divergence in standards and implementation dates in the requirements for England and Wales. Such differing requirements would increase the number of glass and window product specifications, resulting in extra cost to the
PI	o you agree with the proposal to raise performance standards for domestic extension lease explain your answer. es X No Don't know
	omments
C	omments The standards required for extensions should be the same as for new build, to simplify the supply chain.

Comments

answer to Q37 below).

Comments

²⁰ A PAS is a Publically Available Specification, and the PAS would set out a quality assurance approach.

Additional views and suggestions for addressing compliance and performance issues in new non domestic buildings would be welcome. Comments No comment Is the newly formatted ADL1B easier to understand and use? Yes
Is the newly formatted ADL1B easier to understand and use? Yes
Is the newly formatted ADL1B easier to understand and use? Yes
Comments No comment Are there any further amendments to the newly formatted ADL1B that you would recommend? If so, please provide details. Yes No Don't know X Comments
Comments No comment Are there any further amendments to the newly formatted ADL1B that you would recommend? If so, please provide details. Yes No Don't know X Comments
No comment Are there any further amendments to the newly formatted ADL1B that you would recommend? If so, please provide details. Yes No Don't know X Comments
Are there any further amendments to the newly formatted ADL1B that you would recommend? If so, please provide details. Yes No Don't know X Comments
recommend? If so, please provide details. Yes No Don't know x Comments
Comments
How do the consultation proposals impact on the work of Local Authorities and Approve Inspectors? Please give positive and negative impacts.
Comments
No comment

We have asked a number of specific questions. If you have any related issues which we 56. have not specifically addressed, please use this space to report them:

Please enter here:

We want to see a Fabric First approach – improve the building then add on all the other enhancements as appropriate.