

Mr. Gerald McInerney
Sustainable Buildings Division
Department for Communities and Local Government
5th Floor
Eland House
Bressenden Place
London
SW1E 5DU

15th September 2009

Dear Gerald,

Consultation on Parts F and L of the Building Regulations

We are writing to you with the Home Builders Federation response to the Government's consultation on Parts F and L of the building regulations.

The Home Builders Federation (HBF) is the principal trade association representing private sector house builders in England and Wales. Our members are companies who between them build about 80% of the new homes in England and Wales.

Our response comprises two, inter-related parts:

- The overview and issues contained in this letter, and;
- The answers to the consultation questions within the document.

We would stress that these should be read together in order that the bigger picture issues that emerge can be clearly understood and related to the key points of detail which give rise to them.



Issues relating to the zero carbon homes objective

An issue of particular importance is how the proposals in the current consultation relate to and may affect the path to the proposed zero carbon homes standard to apply from 2016.

It is correct in our view to follow the principle that the correct way to reduce carbon emissions from future new homes is by first improving the thermal efficiency of the building fabric as far as practicable technically and commercially before considering other measures. This fabric first principle was one of the cornerstone proposals in the consultation on the definition of zero carbon homes earlier this year and there has been broad general agreement among all the main parties about this. The priority to be given to fabric efficiency in reducing carbon emissions from new homes was duly recognised in the Minister for Housing's statement on the definition of zero carbon on 16th July.

In this context there are some key considerations that should be borne in mind for the current consultation:

- The 2010 regulations will themselves take us close to the limit of what is likely to be practically achievable in terms of fabric efficiency improvements
- As a result, very serious attention must be given to the significant variations in the practical potential for improvements on Part L 2006 performance requirements for different types of dwelling and development
- While a detached house may have potential for around a 30% improvement on Part L 2006 requirements through fabric efficiency alone, the equivalent potential for some flats and apartments may be no more than about 10%.
- We believe that the regulations must recognise this by allowing for an "aggregate" rather than "flat" approach to achieving the 25% improvement sought. This will necessarily also be a major factor in determining the details of the proposed 2013 and 2016 changes to Part L.
- Given the variation in potential for different dwelling and development types, the 2010 regulations will probably already in some cases need to provide for the suitable use of on-site renewable energy.
- The technical guidance and SAP methodology must be fit for purpose for all the above considerations.
- The implications of possible ventilation solutions natural or mechanical in homes built to very high levels of air tightness must also be factored into the calculation of and technical guidance for the Part L 2010 regulations given that these will either affect the scope for achievable fabric efficiency improvements or have implications for homes' energy loads in use.



Costs and development viability

Another important issue concerns costs.

As with the consultation on the definition of zero carbon, the current consultation appears to be based on an under-estimate of the costs entailed.

The view of our members who have undertaken work in this area is that the cost estimates produced for the Parts F and L consultation appear to be on the low side. We believe it is vital therefore that decisions on the new regulations take into account the more robust and accurate – as actually built – cost figures which will shortly be provided by the Zero Carbon Hub who are undertaking work on this subject based on an understanding of the relevant projects so far implemented by companies.

Given the concerns raised by the HBF about the overall or cumulative impact of policy and regulation on costs, development viability and land values – and the work being undertaken by the Government on this major issue – the cost estimates used for the purposes of decisions on the current proposals must be fully robust. While in his statement of 16 July the Housing Minister indicated that the zero carbon objective should take priority in terms of possible claims on land values, it is essential nevertheless that the cost impact of the 2010 regulation changes is properly assessed against both the economic climate that currently prevails and against other policy and regulatory impacts.

This cost and viability assessment must in turn help inform the decisions reached on what is a practical metric and standard to be adopted to determine the extent of future regulatory requirements for fabric efficiency.

Actual versus design performance

The consultation also addresses the need to ensure that new homes will perform in line with the designed as built specification.

We welcome the suggestions made in this area, but we have significant concerns about what is reasonable to expect house builders themselves to be able to achieve in regard to ensuring a particular level of performance. Ultimately it will be the purchaser of the home who determines actual performance. If purchasers do not buy in to the concept of low energy living or use the features of the home in a way that optimises performance it will appear that the new home is not performing as it was designed to do in terms of energy use.



There is therefore a need for much more work to be done to educate purchasers on how they can ensure optimum performance through their behaviour and use of the features and equipment installed to help manage energy use and adequate ventilation.

Other issues

It is critical to achieving the desired performance improvements in the most practical and cost-effective way possible that the current arrangements for Accredited Construction Details (ACDs) are improved.

The current ACDs have not proved effective, but this approach has in principle much potential and could provide both flexibility and assurance for companies in achieving the required standards.

We would like to see a proper method of accrediting and evaluating ACDs and for the system to allow a company to accredit its own details effectively.

We would be happy to discuss any of these issues further with the Department if this would be helpful and facilitate effective solutions.

Yours sincerely,

Dave Mitchell Technical Director

Knithal

Annex C Response form

The purpose of this form is to help consultees marshal their thoughts and to assist collation and analysis of the many responses that are expected. The large number of questions is a reflection of the scale of this consultation exercise and the issues that need to be addressed.

To help consultees the form is divided into sections that match the structure of the consultation document. Consultees may respond to each question in strategic terms or in depth, as they choose.

In answer to each question consultees can choose to tick boxes and/or to provide suggestions and observations in more detail. In particular, if you disagree with any proposal, please add comments and provide practical alternatives. It is not essential to form a view against every question – respond only where you wish.

The list of questions is not exhaustive, and there is no intention to discourage consultees from expressing views "outside the box". The last question is completely open to enable consultees to make suggestions or observations that do not fit into the preceding format.

We would prefer replies by email. To this end, an electronic version of the consultation questionnaire can be downloaded from:

www.communities.gov.uk/publications/planningandbuilding/partlf2010consultation

Alternatively, please return hard copies of the completed questionnaire along with any material that you feel would support your response.

Proposals for amending Part L and Part F of the Building Regulations: consultation

Respondent Details:			
Name: D.F.Mitchell	Please return Please return by: 17 September 2009 Responses should preferably be submitted by email to:		
Organisation: Home Builders Federation	PartLF2010.Consultation@communities.gsi.gov.uk Alternatively, hard copy responses should be sent to:		
Address: Byron House, 7-9 St. Jame's Street, London, SW1A !EE	Gerald McInerney Sustainable Buildings Division Department for Communities and Local Government 5th Floor		
Telephone: 020 7960 1600	Eland House Bressenden Place		
Fax: 020 7960 1601	London SW1E 5DU		
e-mail: dave.mitchell@hbf.co.uk			
Or are you representing the views of the second of the sec	e-mail: dave.mitchell@hbf.co.uk Are you responding as an individual? Or are you representing the views of an organisation? If you are responding on behalf of an organisation, please say who the organisation represents and, if applicable, how the views of members have been assembled. HBF is the principal trade organisation representing the interests of house builders in England and Wales. Our members include companies of all sizes, ranging from multinational household names through regionally based businesses and small local companies. They are responsible for more than 80% of the new homes built every year. HBF have held regional meetings throughout England and Wales with members to discuss this consultation and members comments are reflected within this response.		

Is your response confidential? If so please explain why. (See disclaimer on page 18.)	
Yes	
No	
Comments	

Provision is made throughout this questionnaire for you to make additional comments. If, however, you wish to provide more detailed comments on any aspect of the consultation then please feel free to append additional materials and supplementary documents, clearly marked and cross referenced

to the relevant questions, as necessary.	

Organis	ation [·]	type (tick one box only)	
House or property developer		Local authority – Planning	
Commercial developer		Local authority – Other (please specify)	
Housing association (registered social landlord)		Approved Inspector	
Property management:		Professional body or institution	
Residential Commercial Public sector			
Builder – Main contractor (commercial/volume house builder)		Trade body or association	
Builder – Small builder (repairs/		Householder:	
maintenance, etc)		Homeowner	
		Tenant	
Builder – Specialist sub-contractor		Energy sector:	
		Generation	
		Transmission	
		Distribution	
		Supplier	
		Energy service company	Ш
Manufacturer		Other non-governmental organisation	
Architect		Specific interest or lobby group	
Civil/structural engineer		Research/academic organisation	
Consultancy		Journalist/media	
Individual in practice, trade or profession		Development funder	

Local authority – Building control		Other (please specify):	
Geographical Location	'		'
England		Wales	
England and Wales		Other (please specify)	

Proposals for amending Part L and Part F of the Building Regulations

Chapter 1 Introduction

1 Two approaches have been presented for determining the target emission rate (TER) in 2010 for new dwellings: the "Aggregate 25%" and "Flat 25%". The Government preferred option is "Flat 25%".

Which approach do you prefer?

Aggregate 25%	
Flat 25%	
Don't know	
Please give the reason for your answer Flat rate penalises properties with midlevel heat loss (e.g. apartments, mid-terraces etc.) and contradicts statements later in this consultation regarding weighting. The aggregate option is prefer as long as it reflects construction consistency and deals with the disproportionate effect of mid-terraces, mid-floor apartments etc.	

2 Two approaches have been presented for determining the target emission rate (TER) in 2010 for new non-domestic buildings: the "Aggregate 25%" and "Flat 25%". The Government preferred option is "Aggregate 25%".

Which approach do you prefer?

\triangle

No		
Don't know		
	wer is No , at what level should the non-domestic target be set? be consistent with domestic. This is particularly important in mixed ppments.	ed
Do you agre	e with the proposal for changes to come into force in October 2010?	
Yes		
No		
Don't know		
1.6	wer is No , please suggest when the changes should be implemented a	and
why Yes - assu that the re	ming the usual transitional arrangements will still be in place. Als gulations and all associated information including a fully tested s s available 6 months before the implementation date. This is cruc ry.	SAP
why Yes - assuthat the resoftware indust	gulations and all associated information including a fully tested s s available 6 months before the implementation date. This is cruc	SAP ial to

Comment

Proposals for amending Part L and Part F of the Building Regulations

Chapter 2 Proposals for improving compliance and building performance

Please indicate on the scale below your view as to the likely effectiveness of the proposals in improving compliance and performance for Part L in 2010.

Very effective	Effective	Ineffective	Very ineffective
	\boxtimes		

a) Which proposals do you consider would be most effective and why?

Comment If the Impact Assessment is robust, this question and its subsections are redundant. This applies also to questions 7, 8 and 9. The effectiveness of this is largely dependent upon how thorough the evaluation of the SAP process and its accompanying software has been factored into the RIA. The SAP software can make or break Part L and should be readily available to non-accredited users (i.e. designers) and should have a sufficient degree of flexibility to reflect changes in technology.

b) Which proposals do you consider would be least effective and why?

Comment	
c) Please provide below any general comments you h	ave on these proposals

Very effective	Effective	Ineffective	Very ineffective	
	\boxtimes			
Which proposals d	o you consider v	vould be most effe	ctive and why?	
Comment				
) Which proposals o	lo vou consider v	would be least offe	ctive and why?	
		vould be least elle	ctive and wily!	
Comment				
Please provide bel	ow any general c	comments you hav	e on these proposals	
-	ow any general c	omments you hav	e on these proposals	
<u>-</u>	ow any general c	comments you hav	e on these proposals	
Comment				
Comment			e on these proposals the proposed changes?	
Comment Vill the existing buildi				
Comment Will the existing buildi Yes				
Comment Vill the existing buildi Yes No				
Comment Vill the existing buildi Yes No Don't know If your answer is No	ng control system	be able to enforce to	the proposed changes?	
Comment Will the existing buildi Yes No Don't know	ng control system	be able to enforce to	the proposed changes?	
Comment Will the existing buildi Yes No Don't know If your answer is No done to improve enfo	ng control system please make sug	be able to enforce to	the proposed changes? vations on what could be burden.	e e
Comment Vill the existing buildi Yes No Don't know If your answer is No done to improve enfo	ng control system please make sugorcement and/or re	be able to enforce to gestions and observelieve the regulatory	vations on what could by burden.	e e

10	Please indicate your view about the need for, remit of and operational scope of a steering group -
	consisting of interests in government, building control, and industry together with the education,
	training and research communities – designed to develop and coordinate a strategy aimed at
	closing the performance gap by 2016.

(a) The need for such a group

Agree	Do not agree	No view
\boxtimes		

(b) Please provide any comments you may have on the need for such a group

Comment It is essential that there is builder input into such a group - input from developers, both domestic and non-domestic will provide real-world knowledge.

(c) If you agree that such a group would be valuable, please comment on the group's remit and scope

Comment As above.		

11 If you have any other comments on the *Proposals for improving compliance and building performance*, please add them here, making clear which issue each comment relates to by identifying the relevant paragraph number.

Paragraph number	Comment

Proposals for amending Part L and Part F of the Building Regulations

Chapter 3

Proposals for Accredited Construction Details (ACDs)

12	Do you:	support the	proposal to	accredit	proprietary	details?
----	---------	-------------	-------------	----------	-------------	----------

Yes
No
Don't know
Comment
The current ACDs have not been sufficiently tested. There is an urgent need to make ACDs more robust and they should be properly tested. A proper method of accrediting and evaluating these details also needs to be in place.
Additionally, there needs to be a method whereby a company can get their own details accredited. It should be possible to submit developed details for approval without any penalty incurred. Is there scope in this for say a company set of details to be approved or as well as a house type approval?
It would not be difficult for industry to develop such a scheme in the same way as they developed the Part E scheme. Positive signals would be required from Government that such a scheme would be acceptable.
Do you agree that the scheme(s) should encompass both domestic and non-domestic construction?

13

Yes	
No	
Don't know	
Comment	
As far as possible this scheme should encompass both domestic and non domestic	

14 Do you agree that psi-values should always be calculated by individuals with appropriate expertise and experience?

	Yes		
	No		
-	Don't know		
•	Comment		
	We need to clearly define what is considered to be "appropriate expertise and experience". We need to then ensure that there are enough people with that expertise and experience so that there are no delays in the approval process. Any scheme incorporating this needs to be in place 6 months prior to the		
	implementation of Part L. Needs to be a robust checking procedure.		
	Trocue to be a result checking procedure.		
	Do you agree that a margin (say 10%) should be added to calculated psi-values until number of implementations of the detail have been inspected on site and shown to b satisfactory?		nimum
	Yes		
	No		
	Don't know		
	Comment See above comments - does not support the idea of a robust assessment procedure.		
	Do you agree that regular inspection and feedback will improve the robustness of the add credibility to the claimed performance of the details?	e deta	ails and
	Yes		
•	No		
	Don't know		
Ì	Comment		
	Need to establish who will carry out these inspections and what exactly they ventail.	will	
	Do you agree that potential scheme operators should meet the criteria listed in parag 3-15 of <i>Proposals for Accredited Construction Details?</i>	graph	
		graph	

Don't know	
If your answer is Yes, please comment on how the criteria should be defined.	
If your answer is No, please list suitable criteria.	
Yes, although this is subject to previous comments. Experienced house builders need to be part of any such scheme. Any such scheme needs to be more flexible and more robust than the current scheme.	

18 If you have any other comments on the *Proposals for Accredited Construction Details*, please add them here, making clear which issue each comment relates to by identifying the relevant paragraph number.

Paragraph number	Comment
	As previously stated, the ACDs need to be more flexible than the current system.

Proposals for amending Part L and Part F of the Building Regulations

Chapter 4

Training and dissemination strategy

9	Do you agree with the strategic objectives described?		
	Yes		
	No		
	Don't know		
	Comment		
	Training is required for commissioning. The design element will need to incorporate services. All stakeholders need to be involved, this includes consumers.		
0	Do you agree with the list of target groups?		
	Yes		
	Yes No		
	No		
1	No Don't know If your answer is No , please comment on how the list should be modified or developed.		
1	No Don't know If your answer is No, please comment on how the list should be modified or developed. Need to add Energy providers to the list		
.1	No Don't know If your answer is No, please comment on how the list should be modified or developed. Need to add Energy providers to the list Do you agree with the range of content described?		
1	No Don't know If your answer is No, please comment on how the list should be modified or developed. Need to add Energy providers to the list Do you agree with the range of content described? Yes		

As previously stated, buy-in is required from all stakeholders including the consumer.

Needs to also cover the buying, selling and legal processes.

22 Do you agree with the approach described for working with industry?

Yes	
No	
Don't know	
Comment	
Yes, although self build does not appear to have been included.	

23 Please provide any general comments you have on the long term development of the knowledge and skills base.

Comment

We would ask if development will be enough to inform the means of achieving the objectives for 2013 and 2016? Will it be quick enough for these deadlines?

24 If you have any other comments on the *Training and dissemination strategy*, please add them here, making clear which issue each comment relates to by identifying the relevant paragraph number.

Paragraph number	Comment
4.18	How does 10 years tie in with 2016

Proposals for amending Part L and Part F of the Building Regulations

Chapter 5
Future Thinking Paper

Part L

25 Do you agree that the separate target for electric resistance heating should be progressively removed?

Yes	
No	
Don't know	
Comment	
Should be removed altogether or at least progressively removed in line with carbon reduction of the grid.	

26 Do you agree that the calculation tools should report energy demand (kWh/year) for both regulated and currently unregulated demands from 2010?

Yes	
No	
Don't know	

Comment

Unregulated demand is a whole new area which needs careful appraisal, moving forward. We need to monitor this so that we are confident that the unregulated demands are as correct as they can possibly be and we should not be afraid to change the criteria if we find that the wrong assumptions have been made. Unregulated demand is a very uncomfortable area and we don't see how this can be accurately captured. There is little prospect of consistency in consumer unregulated demand - this would require a great deal of work to achieve.

Kwh/m2 might be a better way of measuring this and would allow comparison with European figures.

Yes	
No	
Don't know	
If your answer is Yes , which metrics do you think are most appropriate and why? Yes for regulated energy and perhaps Kwh/m2 is the best form of measure	
Do you support the concept of incorporating an automatic assessment of renewal as part of the Part L compliance tools?	ole pote
Yes	
No	
Don't know	
House builders will work out the best possible solution at the design/plann	ina
House builders will work out the best possible solution at the design/plann stage taking into consideration all the required metrics, i.e. customer preferences, location of development and what is available to them etc:	ing
stage taking into consideration all the required metrics, i.e. customer	er, do y
stage taking into consideration all the required metrics, i.e. customer preferences, location of development and what is available to them etc: In respect of the operating and maintenance information to be provided to the use think it would be a good idea if the level of content and form of presentation of the	er, do y
stage taking into consideration all the required metrics, i.e. customer preferences, location of development and what is available to them etc: In respect of the operating and maintenance information to be provided to the use think it would be a good idea if the level of content and form of presentation of the were made a legal requirement?	er, do y
stage taking into consideration all the required metrics, i.e. customer preferences, location of development and what is available to them etc: In respect of the operating and maintenance information to be provided to the use think it would be a good idea if the level of content and form of presentation of the were made a legal requirement? Yes	er, do yo e materi
stage taking into consideration all the required metrics, i.e. customer preferences, location of development and what is available to them etc: In respect of the operating and maintenance information to be provided to the use think it would be a good idea if the level of content and form of presentation of the were made a legal requirement? Yes No	er, do yo e materi
stage taking into consideration all the required metrics, i.e. customer preferences, location of development and what is available to them etc: In respect of the operating and maintenance information to be provided to the use think it would be a good idea if the level of content and form of presentation of the were made a legal requirement? Yes No Don't know Comment	er, do yo
stage taking into consideration all the required metrics, i.e. customer preferences, location of development and what is available to them etc: In respect of the operating and maintenance information to be provided to the use think it would be a good idea if the level of content and form of presentation of the were made a legal requirement? Yes No Don't know Comment There is already sufficient regulation in place through CDM etc. Do you agree that vertical transport, security and feature lighting should be included.	er, do yo

	Don't know
	Comment
	This will be critical under Lifetime Homes. Security lighting in domestic buildings also needs to be included.
1	Do you agree that the energy impact of air curtains should be included beyond 2010?
	Yes
	No
	Don't know
	If your answer is Yes, on what basis should standards be set, and how should the
	energy impact of other large openings be assessed?
	Research is required in this area to get the equivalent of a u value for this technology.
`	If the appropriate for concernation less than 20m ² is removed from Dort Lin 2040, hour do u
2	If the exemption for conservatories less than 30m ² is removed from Part L in 2010, how do y think energy performance standards for conservatories should be improved beyond 2010?
2	,
	Comment The definition of a conservatory provided in the consultation document does not match that accepted by the industry. The industry defines a conservatory as a glass structure separated from the main house by doors, thermally broken from the main house and with no provision for heating. If the
	Comment The definition of a conservatory provided in the consultation document does not match that accepted by the industry. The industry defines a conservatory as a glass structure separated from the main house by doors, thermally broken from the main house and with no provision for heating. If the 'conservatory' contains heating it is technically a glass extension.
	Comment The definition of a conservatory provided in the consultation document does not match that accepted by the industry. The industry defines a conservatory as a glass structure separated from the main house by doors, thermally broken from the main house and with no provision for heating. If the 'conservatory' contains heating it is technically a glass extension. Do you feel that the modelling of highly glazed spaces in SAP and SBEM is adequate?
	Comment The definition of a conservatory provided in the consultation document does not match that accepted by the industry. The industry defines a conservatory as a glass structure separated from the main house by doors, thermally broken from the main house and with no provision for heating. If the 'conservatory' contains heating it is technically a glass extension. Do you feel that the modelling of highly glazed spaces in SAP and SBEM is adequate? Yes
3	Comment The definition of a conservatory provided in the consultation document does not match that accepted by the industry. The industry defines a conservatory as a glass structure separated from the main house by doors, thermally broken from the main house and with no provision for heating. If the 'conservatory' contains heating it is technically a glass extension. Do you feel that the modelling of highly glazed spaces in SAP and SBEM is adequate? Yes No

34 If you have any other comments on the *Future thinking paper* in relation to Part L, please add them here, making clear which issue each comment relates to by identifying the relevant paragraph number.

	Paragraph number	Comment	
	Part F		
35	included guid	e traditionally naturally ventilated. Within this consultation version of ADF, we lance for increased natural ventilator area for more airtight dwellings. Do you to suggest that appropriately sized natural ventilation does not work adequate?	have
	Yes		
	No		
	Don't know		
36	Do you agree	e that we should develop guidance for demand-controlled ventilation systems beyond 2010?	in
		5 50yona 2010 .	
	Yes		
	No		
	Don't know		
	air-tight ho	More research is required into both natural and mechanical systems in mes. It is important that medical evidence is obtained in the first judge whether or not this is a problem.	
37	Do you fores	ee the need for technical amendments to guidance for new buildings other tha	an

37 dwellings in subsequent revisions of ADF?

Yes	
No	
Don't know	
If your answer is Yes, please provide details.	
Although this is dependent on further research providing evidence that this is necessary.	;

38	Do you foresee the need for significant technical amendments to guidance for existing buildings
	in subsequent revisions of ADF?

Yes	
No	
Don't know	
If your answer is Yes , please provide evidence	

39 If you have any other comments on the *Future thinking paper* in relation to Part F, please add them here, making clear which issue each comment relates to by identifying the relevant paragraph number.

Paragraph number	Comment

Proposals for amending Part L and Part F of the Building Regulations

Annex B

	Consultation stage Impact Assessment	
	Part L	
0	Are the levels of emissions reductions set out for different new domestic and non-dobuilding types reasonable?	omestic
	Yes	
	No	
	Don't know	
	If your answer is No, please explain why Heat pumps, thermal piling etc. are completely absent from the modelling. Also does not address the problems associated with mix-use buildings with communal areas etc.	
11	Are the cost and benefit data and methods of analysis given in the Impact Assessment domestic and non-domestic buildings reasonable to evaluate the impact to ame to Part L?	
	Yes	
	No	
	Don't know Please suggest how the estimates and methods of analysis could be improved See answer to Q40 above. Plus RIA is far too complicated.)
12	Are the cost and benefit data and methods of analysis given in the Impact Assessmetisting domestic and non-domestic buildings reasonable to evaluate the impact to amendments to Part L?	
	Yes	
	No	
	Don't know	
	Please suggest how the estimates and methods of analysis could be improved to be more robust and simpler to understand.	eds

Part F

	For Part F, are the proposals for higher ventilation rates, testing and commissioning of ventil systems in new dwellings set out in the Impact Assessment adequate to offset any worsenin indoor air quality that could arise from increases in air tightness? Are the costs identified reasonable?
	Yes
	No
	Don't know
	If your answer is No , please suggest what other changes might be required and their likely cost. There is currently not enough evidence and further research is indicated. It is also subject to proper design and being fitted robustly.
4	General Are there categories of risk, uncertainty or unintended consequences that have not been identified in the Impact Assessment?
	Yes
	No
	140
	Don't know
	Don't know If your answer is Yes , please identify them. Thoughts on how to quantify the costs and
	Don't know
5	Don't know If your answer is Yes , please identify them. Thoughts on how to quantify the costs and benefits of any further categories would also be helpful What happens if filters become blocked or the mechanical ventilation is inadvertantly turned off?
5	Don't know If your answer is Yes , please identify them. Thoughts on how to quantify the costs and benefits of any further categories would also be helpful What happens if filters become blocked or the mechanical ventilation is inadvertantly turned off?
5	Don't know If your answer is Yes, please identify them. Thoughts on how to quantify the costs and benefits of any further categories would also be helpful What happens if filters become blocked or the mechanical ventilation is inadvertantly turned off? Are you content with the specific impact tests carried out in the Impact Assessment?
ō	Don't know If your answer is Yes, please identify them. Thoughts on how to quantify the costs and benefits of any further categories would also be helpful What happens if filters become blocked or the mechanical ventilation is inadvertantly turned off? Are you content with the specific impact tests carried out in the Impact Assessment? Yes
5	Don't know If your answer is Yes, please identify them. Thoughts on how to quantify the costs and benefits of any further categories would also be helpful What happens if filters become blocked or the mechanical ventilation is inadvertantly turned off? Are you content with the specific impact tests carried out in the Impact Assessment? Yes No
5	Don't know If your answer is Yes, please identify them. Thoughts on how to quantify the costs and benefits of any further categories would also be helpful What happens if filters become blocked or the mechanical ventilation is inadvertantly turned off? Are you content with the specific impact tests carried out in the Impact Assessment? Yes No Don't know

46	Do you agree with the proposed percentage improvement in compliance arising from the
	amendments to Parts L and F, based on the evidence in the Impact Assessment as well as in
	Chapter 2: Proposals for improving compliance and building performance?

Yes	
No	
Don't know	
If your answer is No , please explain why	

47 If you have any other comments on the *Impact assessment*, please add them here, making clear which issue each comment relates to by identifying the relevant page number.

Page number	Comment

Proposed technical guidance for Part L

Chapter 1

Approved Document L1A - Conservation of fuel and power in new dwellings

Chapter 2

Approved Document L1B – Conservation of fuel and power in existing dwellings

Chapter 3

Approved Document L2A – Conservation of fuel and power in new buildings other than dwellings

Chapter 4

Approved Document L2B – Conservation of fuel and power in existing buildings other than dwellings

ADL1A, ADL1B, ADL2A, ADL2B

48 Do you agree with the proposal to remove the current exemptions for certain classes of building/ building work from the energy efficiency regulations, and to use guidance to demonstrate what is reasonable in each particular case?

Yes	
No	
Don't know	
Comment This can be off-set. However, need to specify whether this will app	y to
listed buildings and what affect this may have.	

49	Do you consider that the exemption for conservatories less than 30 m ² should be removed from
	Part L in 2010? (The main details are in ADL1B.)

Yes	

	No	
	Don't know	
	Comment See answer to Q32 re: definition of a conservatory. However, if the definition applied is that given in the consultation document, all sizes of 'conservatory' should come under the Building Regulations	
50	If the exemption for conservatories less than 30 m² is removed from Part L in 2010, consider that work on conservatories should be notifiable?	do you
	Yes	
	No	
	Don't know	
	Comment Heat gain from the side of the building affected would need to be accounted for etc.	
51	Do you agree with the proposed definition of a conservatory if introduced in 2010?	
	Yes	
	No	
	Don't know	
	Comment See answer to Q32 re: definition of a conservatory.	
52	Do you agree with the proposed technical standards for conservatories if introduced	l in 2010
	Yes	
	No	
	Don't know	
	Comment As in the answer to Q49 - if the industry definition of a conservatory taken then the answer is no. If the definition given in the consultation docume is used then yes.	•
53	Do you agree that we should introduce guidance on the insulation of swimming pool within buildings?	l basins
	Yes	
	No	
	Don't know	

Comment Why only apply to internal pools - why not include hot tubs and external pools?
ADL1A, AD2A
Do you agree with the proposal to require a design stage CO ₂ emission rate calculation to be provided to the building control body (BCB) with the deposit of plans, in addition to a final as-built calculation?
Yes
No
Don't know
Comment It is already good industry practice to have this information upfront.
Do you agree that the commissioning plan should be made available with the deposit of plans?
Yes
No No
Don't know Comment Yes if non-domestic, no if domestic.
Comment res il non-domestic, no il domestic.
Do you agree with the proposed approach to assigning psi-values in the DER/BER calculation?
Yes
No
Don't know
Comment A default value could be used.
Many adjustable trickle ventilators, and other air inlet devices, are designed to provide a small amount of background ventilation even when fully closed. Do you agree with the proposal that, in order to obtain a good measure of building envelope performance, the air permeability of buildings should be measured with air inlet devices sealed (method B in BS EN 13892:2006) rather than just closed as at present?
Yes

No	
Don't know	
Comment Yes, however this may not give a true reading.	
Furthermore, if a vent is allowing air in/out whilst closed, is this not poorly	
designed? What would be the implications where there was an acoustic	
attenuation specified in the design?	
More consideration of these issues is required.	
•	

ADL1B, ADL2B

58 Do you support the revised definition of renovation?

Yes	
No	
Don't know	
Comment	

59 I Do you agree with the guidance covering work on historic and traditional buildings and places of worship?

Yes	
No	
Don't know	
Comment	

60 Do you agree with the improvements to standards that are proposed for work in existing buildings?

Yes	
No	
Don't know	
Comment	

ADL2A, ADL2B

61 Do you agree with the new guidance relating to buildings with low energy demand?

No Don't know Comment ADL1A Do you agree with the revised definition of dwelling type? Yes No Don't know Comment This definition needs to be consistently applied to all legislation. Do you support the proposals for assessing the air permeability of dwellings that are not subject to a pressure test? Yes No Don't know Comment No - unless the revised figure could be used in SAP. Do you agree with the assumptions on secondary heating and internal lighting as proposed for he actual dwelling? Yes No Don't know Comment No Don't know Comment Do you agree with the proposals for dealing with heat lesses caused by a party well bypace?	
No Don't know Comment ADL1A Do you agree with the revised definition of dwelling type? Yes	/es
ADL1A Do you agree with the revised definition of dwelling type? Yes No Don't know Comment This definition needs to be consistently applied to all legislation. Do you support the proposals for assessing the air permeability of dwellings that are not subject of a pressure test? Yes No Don't know Comment No - unless the revised figure could be used in SAP. Do you agree with the assumptions on secondary heating and internal lighting as proposed for he actual dwelling? Yes No Don't know Comment No Don't know Don't k	
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Po you agree with the revised definition of dwelling type? Yes No Don't know Comment This definition needs to be consistently applied to all legislation. Do you support the proposals for assessing the air permeability of dwellings that are not subject to a pressure test? Yes No Don't know Comment No - unless the revised figure could be used in SAP. Do you agree with the assumptions on secondary heating and internal lighting as proposed for the actual dwelling? Yes No Don't know Comment Or you agree with the assumptions on secondary heating and internal lighting as proposed for the actual dwelling?	
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Comment This definition needs to be consistently applied to all legislation. Do you support the proposals for assessing the air permeability of dwellings that are not subject to a pressure test? Yes No Don't know Comment No - unless the revised figure could be used in SAP. Do you agree with the assumptions on secondary heating and internal lighting as proposed for he actual dwelling? Yes No Don't know Comment O you agree with the assumptions on secondary heating and internal lighting as proposed for he actual dwelling?	
Do you support the proposals for assessing the air permeability of dwellings that are not subject to a pressure test? Yes No Don't know Comment No - unless the revised figure could be used in SAP. Do you agree with the assumptions on secondary heating and internal lighting as proposed for he actual dwelling? Yes No Don't know Comment Comment	Don't know
Yes No Don't know Comment No - unless the revised figure could be used in SAP. Do you agree with the assumptions on secondary heating and internal lighting as proposed for he actual dwelling? Yes No Don't know Comment	Comment This definition needs to be consistently applied to all legislation.
Do you agree with the assumptions on secondary heating and internal lighting as proposed for he actual dwelling? Yes No Don't know Comment	Yes No
he actual dwelling? Yes No Don't know Comment	
No Don't know Comment	
No Don't know Comment	/es
Comment	
	Don't know
To you garee with the proposals for dealing with heat lesses sourced by a party wall by page?	Comment
bo you agree with the proposals for dealing with heat losses caused by a party wall bypass?	to you agree with the proposals for dealing with heat losses caused by a party wall bypass?
Yes	
No Don't know	
Don't know	
Comment It would be better to leave this proposal on hold intil 2013. Clearly	· · · · · · · · · · · · · · · · · · ·
telling all stakeholders that this is what is intended. This then gives industry a chance to look at the way party walls are constructed	

and change their detailing if required. At the same time it provides more time to build a better/larger evidence base which is suficient to warrant such a proposal. It also provides time to fully understand the wider scale implications of such a proposal and consider the unintended consequences it causes.	
If you have any other comments on <i>Approved Document L1A</i> , please add them here, clear which issue each comment relates to by identifying the relevant paragraph number that the issues relating to the target setting mechanism are raised under Volume 2, Control of the volu	ber. Note
Paragraph number Comment	
(The comment box will expand to accommodate any comments you wish to make)	
(
Yes	
No	
Don't know	
Comment	
ADL1B	
Do you agree that, for most cases, the basis of the standards for replacement window be the window energy rating?	s should
Yes	
No	
Don't know	
Comment There is a need to define a proper energy rating (including frame etc.).
There is currently a methodology but it needs to be an industry standard and	
applied consistently.	

66

67

68 If you have any other comments on *Approved Document L1B*, please add them here, making clear which issue each comment relates to by identifying the relevant paragraph number.

Paragraph number	Comment

ADL2A

3 9	Do you agree that Part L should set standards for buildings which use energy to condition space
ງອ	that contain processes, such as computer rooms and cold stores?.
	Yes
	No Don't know
	Comment
70	Do you agree with the new guidance covering modular and portable buildings?
	Yes
	No D
	Don't know Comment
	Comment
7 1	Do you agree with the proposed approach to shell and core developments?.
	Yes
	No
	Don't know
	Comment
'2	Do you agree with the proposed change to the basis of Criterion 3 – limiting the effects of solar gain in summer?
	Yes
	No
	Don't know
	Comment
	I I

73 If you have any other comments on *Approved Document L2A*, please add them here, making clear which issue each comment relates to by identifying the relevant paragraph number. Note

that the issues relating to the target setting mechanism are raised under Volume 2, Chapter 5 of this consultation on *Proposed changes to the National Calculation Methodology (NCM)*.

Paragraph number	Comment

(The comment box will expand to accommodate any comments you wish to make)

ADL2B

74 If you have any other comments on *Approved Document L2B*, please add them here, making clear which issue each comment relates to by identifying the relevant paragraph number.

Paragraph number	Comment

Proposed technical guidance for Part L

Chapter 5

Proposed changes to the National Calculation Methodology

75 Do you agree that the specification of the notional dwelling represents a reasonably achievable standard?

Yes	
No	
Don't know	
Comment We have concerns surrounding part wall assumptions, 100% energ	y
efficient lighting and thermal bridging etc., and how these issues are dealt with.	
There seems to be a case for more research surounding this area before finalising what indeed is a notional dwelling.	

76 Do you agree with a fuel-based target that for most fuels delivers an approximately equal energy efficiency standard?

Yes	
No	\boxtimes
Don't know	
Comment Inconsistent with previous policy - gas/ electricity	
Comment Inconsistent with previous policy - gas/ electricity	

77 Do you agree that electric resistance heating should have a more demanding energy efficiency standard than other fuels?

Yes	
No	\boxtimes
Don't know	
Comment This already comes under SAP. Recognition is needed that heat fuel	
factors will change with the decarbonisation of the grid. The type of fuel, e.g.	
biomass, may have a different value.	

Yes					
No					
Don't know					
Comment					
Do you agree with dwellings?	the three generic spa	ace types used	to generate the	e notional bu	ilding for n
Yes					
No					
Don't know					
Comment					
	the selection of the s choice?	pace type shou	d be driven by	the activity	database r
than being a user		pace type shou	d be driven by	the activity	database r
Yes No Don't know Comment					
Yes No Don't know Comment Do you agree that Class?	choice?				Planning U
Yes No Don't know Comment Do you agree that	choice?				
Yes No Don't know Comment Do you agree that Class? Yes	choice?				Planning U
Yes No Don't know Comment Do you agree that Class? Yes No	choice?				Planning U

Paragraph number	Comment

(The comment box will expand to accommodate any comments you wish to make)

Volume 2

Proposed technical guidance for Part L

Chapters 6 and 7 Domestic and non-domestic building services compliance guides

- 83 The building services guides contain guidance on recommended minimum standards for appliance efficiency, system control, and installation and commissioning procedures. The guides also contain a significant amount of general "good practice" guidance on building services specifications and installation.

Yes	
No	
Don't know	
Comment The guidance is clear but wha	at is an "appropriate level"? Furthermore
pg226 shows two hot water circuits? Is	this correct/necessary?
Would it be useful to indicate within the second control of t	he guides those parts that are essential fo
compliance purposes, e.g. by highligh	he guides those parts that are essential fonting text or adding separate check lists?
compliance purposes, e.g. by highlightes	•
Yes No	•
compliance purposes, e.g. by highlightees Yes No Don't know	•
Yes No	•

84 Are the minimum performance standards a useful starting point in the context of designing a building to achieve the TER?

Yes	
No	
Don't know	
Please explain Although this should not be relied on.	

85	Do you agree that the minimum efficiency of gas and oil-fired new and replacement boilers should
00	be raised to 90%.?
	Yes
	No I
	Don't know
	Comment Providing sufficient numbers are available?
86	There is an agreed labelling system in place for rating the performance of heating system pumps
	and circulators. Do you agree that it is appropriate to require a minimum rating of "Band C"?
	Minimum cell efficiency
	Other index of performance
	If your answer is No , do you have an alternative suggestion? This also needs to be
	usable and checked under SAP.
87	The performance of PV systems is currently indicated by their minimum cell efficiency. Is there
	another index of performance, such as Performance Ratio or System Yield, that would be more
	appropriate?
	Minimum cell effiency
	Other index of performance
	If your answer is Other index of performance , please provide details below: No other
	index of performance is widely known.
88	The guides deal mainly with the most commonly employed building services. Is it clear that the
	guides do not preclude the use of other suitable services or innovative technologies?
	Yes
	No I
	Don't know
	Comment The guides are reasonably clear but there is concern about the
	measurability of these technologies.
89	Are there any significant omissions from the content of the guides?
55	
	V ₂
	Yes
	No

Don't know
If your answer is Yes, please provide details: No mention of minimum standards of
new and emergent technologies (CHP, biomass, air source heat pumps etc.)

90 If you have any other comments on the *Domestic Building Services Compliance Guide* and *Non-Domestic Building Services Compliance Guide*, please add them here, making clear which issue each comment relates to by identifying the guide and relevant section.

Guide	Section	Comment

(The comment box will expand to accommodate any comments you wish to make)

Volume 3

Proposed technical guidance for Part F

Chapter 1 Approved Document F – Means of ventilation

91 In Section 2: The Requirement F1 – Means of ventilation, below the requirement we have set out six proposed changes to the Regulations. Do you agree that all the changes are desirable?

Yes	
No	
Don't know	
If your answer is No, please explain why Agree in principle but they need to be	
more clearly and thoroughly explained.	

92 Section 5: Dwellings introduces a higher ventilation rate for dwellings designed to have an air permeability equal to or tighter than 5 m³/(h.m²) at 50 Pa. Do you agree that this is a reasonable change-over value?

Yes	
No	
Don't know	
If your answer is No, what changes should be made? Based on present	
understanding this is possible, but why 5m3/(h.m2)? More research is need particularly research that proves we actually need to do this (i.e. medical evidence etc.) In addition, what are the consequences of over or under achieving the stated aim?	led,

93 The Approved Document calls for all ventilation systems to be installed correctly and commissioned, and *Section 5: Dwellings* refers to a new installation and commissioning compliance guide for new dwellings.

Do you think current standards of installation and commissioning need to be improved in new dwellings?

Yes	
No	

Don't know
Comment Installation compliance guide is appropriate but the commissioning is excessive, should only be user guidance.
Approved Document F 2006 spreads guidance for each domestic ventilation system type between Tables. In this edition, <i>Section 5: Dwellings</i> presents the full advice for each system in own separate Table. Do you find this approach clearer? Yes No Don't know If your answer is No , how do you think we should present the information?
There has been little modification of Section 6: Buildings other than dwellings due to our understanding that air infiltration is not a significant part of the design strategy within any
guidance referenced in this Section. Do you have any information to suggest modifications to the ventilation guidance for more airtight buildings of this type are necessary?
Yes U
Don't know
If your answer is Yes , please provide further information
With reference to Section 7: Work on existing buildings, should trickle ventilators (or an equivalence of ventilation) be fitted when windows are replaced? See also the analysis in the Impact Assessment.
Yes
No D
Don't know
Please give reasons for your answer This will work towards a consistent approach however in instances where noise levels are affected, mechanical ventilation
may be more appropriate. There are also issues if applied to listed buildings etc. and more detail is required into replacement/ renewal, size of vent etc.

/es	
No	
Don't know	
	tails Although issues with the robustness of
Appendix B: Purge ventilation, gui an 15° it is not suitable for providin	dance has been added to say that if the window open g purge ventilation. Do you agree?
'es	
lo	
Oon't know	
fyour answer is No , please give de now does this relate to Part F?	tails What is the basis of the 15 degrees and
echanical ventilation systems for u	eria and an assessment procedure for continuous se in dwellings. It provides a means of meeting the prothese ventilation devices.
echanical ventilation systems for usew regulation for noise levels from	se in dwellings. It provides a means of meeting the pr
echanical ventilation systems for usew regulation for noise levels from Do you think the maximum sou are reasonable?	se in dwellings. It provides a means of meeting the pr these ventilation devices.
echanical ventilation systems for usew regulation for noise levels from Do you think the maximum sou are reasonable?	se in dwellings. It provides a means of meeting the pr these ventilation devices.
echanical ventilation systems for usew regulation for noise levels from Do you think the maximum sou are reasonable? Yes No Don't know	se in dwellings. It provides a means of meeting the protection devices. In power levels and the test for tonal components in the componen
echanical ventilation systems for usew regulation for noise levels from the property of the pr	se in dwellings. It provides a means of meeting the prothese ventilation devices. Independent of the second components o
echanical ventilation systems for usew regulation for noise levels from the property of the pr	se in dwellings. It provides a means of meeting the prothese ventilation devices. Independent of the test for tonal components of the test for the t
echanical ventilation systems for usew regulation for noise levels from the property of the pr	se in dwellings. It provides a means of meeting the prothese ventilation devices. Independent of the test for tonal components of the provided to carry these ventilation devices. Independent of the test for tonal components of the provided to carry these ventilation devices. Independent of the provided to carry these ventilation of the provided to carry these ventilation devices.
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echanical ventilation systems for usew regulation for noise levels from the word reasonable? Yes No Don't know F your answer is No, please give de the word for the test procedures appropout the tests in a consistent way Yes No	se in dwellings. It provides a means of meeting the prothese ventilation devices. Independent of the test for tonal components of the provided to carry these ventilation devices. Independent of the test for tonal components of the provided to carry these ventilation devices. Independent of the provided to carry these ventilation of the provided to carry these ventilation devices.
echanical ventilation systems for usew regulation for noise levels from the property of the pr	se in dwellings. It provides a means of meeting the prothese ventilation devices. Independent of the state o

con	peneral, are you aware of any particular experience from other countries that should be sidered as part of this review? This could relate to noise, ventilation performance, or other tters.
	you have experience of ventilation systems designed according to the guidance in Approved cument F 2006 not providing adequate ventilation, and resulting in indoor air quality problems?
<mark>lf y</mark>	
Ye No Do	
which Pa	ou have any further comments on Approved Document F, please add them here, making clear ch issue each comment relates to by identifying the relevant paragraph of the AD. Tagraph

Volume 3

Proposed technical guidance for Part F

Chapter 2

Domestic ventilation – Installation and Commissioning Compliance Guide

104 Is the installation and	d commissionina	quidance both clear and	dappropriate for each	າ svstem tvpe?

Yes	
No	
Don't know	
If your answer is No, please provide recommendations for improvement Yes but the	1e
guidance is too confusing and complex for consumers.	

105 Do you foresee any difficulties in implementing this guidance in practice to achieve a good quality of installation and commissioning?

Yes	
No	
Don't know	
If your answer is Yes , please identify problems and potential solutions Significant	
costs are involved and a high quality installation will not results from this	
administrative-heavy approach.	

106 (a) Do you agree that the completion checklist and commissioning sheet section should be completed and signed by a suitably "qualified" person?

Yes	
No	
Don't know	

(b) If your answer is Yes, what training/education programme exists that would suitably qualify a person to complete this sheet, and what prior experience should that person possess?

Comment A definition of a "suitable qualified" person is needed.
(c) Which industry association(s) should be invited to accredit their members?

107 If you have any other comments on the *Domestic Ventilation: Installation and Commissioning Guide*, please add them here, making clear which issue each comment relates to by identifying the relevant section.

Section	Comment

(The comment box will expand to accommodate any comments you wish to make)

Comment

SAP and SBEM software for consultation at:

www.2010ncm.bre.co.uk

SAP 2009 software tool

For the purposes of the Part L consultation, the Government has issued a special version of a SAP 2009 software tool to help consultees identify the impact of the proposed changes to Part L and SAP on dwelling design. The tool's core calculation engine is the SAP 2009 methodology; it also has a simple user interface and generates a compliance "output report" (see below).

When the new Part L regulations come into force, the Government could continue to make the software for the core calculation engine available as an alternative to the traditional manual spreadsheet. The core calculation software could be provided in one of two formats – locked or unlocked:

- (a) A locked core calculation engine could be incorporated by software suppliers into their own products, with a user-friendly interface and added functionality. Developers could then use such products to demonstrate compliance with building regulations.
- (b) S Software with an unlocked core could be used by industry as a design tool to develop products with improved energy efficiency and/or to reduce carbon dioxide emissions associated with new build dwellings. It would not be possible to use software with an unlocked core calculation engine for demonstrating compliance.

108 Would a locked core calculation engine be useful?

Yes	
No	
Don't know	
Please give reasons for your answer	

109 Would an unlocked core calculation engine be useful?

Yes	
No	
Don't know	
Please give reasons for your answer Useful to check future values of new	
technologies etc.	

Compliance "output report"

It is proposed to amend the regulations so that builders will be required to submit to the building control body (BCB) CO2 emission rate calculations demonstrating compliance with building regulations at the initial design stage as well as on completion (the current requirement). At the design stage, the builder would carry out a preliminary calculation based on plans and specifications and provide the results of these calculations and the associated data inputs to the BCB.

It is suggested that compliance with building regulations would be improved and enforcement made easier if Part L compliance software (i.e SAP 2009, SBEM and other non-domestic CO2 emission rate calculation tools) produced a compliance "output report". The output report would indicate whether the design met the Part L Criteria 1 to 3 in ADL1A and ADL2A, and would list the design features likely to be most critical in meeting the criteria along with relevant details of the construction. When inspecting buildings during construction, BCBs would be able to focus on those key features.

The SAP and SBEM tools provided for the purposes of the Part L consultation both produce a compliance output report.

110 Do you agree that Part L compliance software should produce an output report?

Yes	
No	
Don't know	
Please give reasons for your answer Would show improvement in compliance	
level, useful for CfSH.	

111 Do you have any suggestions for improving the output report produced by the SAP and SBEM consultation software?

Comment

- Reference to the Code
- Zero Carbon
- % improvement over base etc.
- Provide a print-out certificate per plot.
- 112 If you have any other comments on the Part L consultation SAP and SBEM software tools, please add them here.

Comment	
Ensure it works and is debugged	

• Need to have the facility to compare results with the existing software

General suggestions and observations

113	Please enter below any	additional suggest	ions or observations	s that you wo	uld like to mak	e on the
	proposals for amending	Part L and Part F	of the Building Regu	ılations.		

Comment			