

Certification Checklist

This document contains: Domestic from Oct 2010 Domestic from Oct 2013 Domestic from Oct 2015 Non-domestic from Oct 2015 And An example of a completed checklist



Certification Checklist

Domestic from Oct 2010



CERTIFICATION CHECKLIST: Application Date 1st Oct 2010 onwards

Date:	Job Ref:	
Project Title:	Project Description:	
Project Location:		
Certificate N°:	Warrant N°:	(if known)
Client:	Agent:	
Designers/ Roles:	Other Certifiers/	

Approved Certifier is Applicant / Agent Yes / No

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List of Drawings, Specifications and Schedules referenced including amendments and location of materials (continue on a separate sheet if required):

If Staged or Amendment – describe stage

Signed

Date

CERTIFI	CATION CHECKLIST: Domestic Ap	plication Date Prior to 1	st Oct 2010	
Checklist Only comp	plete those boxes that are relevant.	hose boxes that are relevant. (name) or Performance Specification		Design Provision ie: Within limits set, or British Standard, Eurocode etc cited, or calculations attached, or Form Q required, etc
	abbreviations is acceptable, where		item	
referenced	otherwise insert full text.	ACD, (name), PS	D, Calc, SR, ML, Cert, S1	(reference), Calc, Q
6.0 Intr 6.0.1	roduction 1 Background			
6.0.2				
6.0.3				
6.0.4				
6.0.5	5 Thermal conductivity			
6.0.6	6 Insulation envelope where U-Values should be ignored			
6.0.7	7 Buffering effects on the insulation envelop			
6.0.8	3 Roof that performs the function of a floor			
6.0.9				
6.0.1	0			
6.0.1				
6.0.1	12 Latest changes			
6.1 Ca	rbon dioxide emissions			
6.1	Functional standard			
6.1.0) Introductions			
6.1.1	1 Dwellings			
6.1.2				
6.1.3				
6.1.4	<u> </u>			
6.1.5				
6.1.6	6 A simplified approach			

CEF	RTIFICA	TION CHECKLIST: Domestic Ap	plication Date Prior to 1 st Oct 2010
	6.1.7	Conservatories and stand-alone	
		buildings	
6.2	Buildir	ng insulation envelope	
	6.2	Functional standard	
	6.2.0	Introduction	
	6.2.1	Maximum U-values	
	6.2.2	Areas of windows, doors and rooflights	
	6.2.3	Resisting heat loss through thermal	
		bridging	
	6.2.4	Limiting air infiltration	
	6.2.5	Air-tightness testing	
	6.2.6	Conversion of unheated buildings	
	6.2.7	Conversion of heated buildings	
	6.2.8	Conversion of historic buildings	
	6.2.9	Extensions to the insulation envelope	
	6.2.10	Thermal bridging and air infiltration for	
		existing buildings	
	6.2.11	Alterations to the insulation envelope	
	6.2.12		
	6.2.13	Stand alone buildings	
6.3	Heatin	ng system	
	6.3	Functional standard	
	6.3.0	Introduction	
	6.3.1	Gas and oil wet central heating	
		efficiency	
	6.3.2	Solid fuel wet central heating	
		efficiency	
	6.3.3	Electric wet central heating efficiency	
	6.3.4	Heat pump system efficiency (warm	
		and hot water)	
	6.3.5	Dry central heating systems efficiency	
	6.3.6	Solar water heating efficiency	
	6.3.7	Mico combined heat and power	
		efficiency	

CEF	RTIFICA	TION CHECKLIST: Domestic Ap	plication Date Prior to 1 st (Oct 2010	
	6.3.8	Controls for wet space heating and hot			
		water systems			
	6.3.9	Controls for dry space heating and hot			
		water systems			
	6.3.10	Controls for warm air and hot water			
		systems			
	6.3.11	Controls for solar water heating			
	6.3.12	Work on existing buildings			
	6.3.13	Conservatories			
6.4		tion of pipes, ducts and vessels			
	6.4	Functional standard			
	6.4.0	Introduction			
	6.4.1	Insulation of pipes and ducts			
	6.4.2	Insulation of vessels			
	6.4.3	Work on existing buildings			
6.5		al and display lighting			
	6.5	Functional standard			
	6.5.0	Introduction			
	6.5.1	Artificial lighting			
6.6		anical ventilation and air conditioning			
	6.6	Functional standard			
	6.6.0	Introduction			
	6.6.1	Form and fabric of the building			
0.7					
6.7		missioning building services			
	6.7	Functional standard			
	6.7.0	Introduction			
	6.7.1	Inspection and commissioning			
6.8	Writte	en Information			
	6.8	Functional standard			
	6.8.0	Introduction			
	6.8.1	Written information			
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CERTIFICA	TION CHECKLIST: Domestic App	plication Date Prior	to 1 st Oct 2010		
6.8.2	Work on existing buildings				
6.9 Energ	gy performance certificate				
6.9	Functional standard				
6.9.0	Introduction				
6.9.1	Calculating the carbon dioxide				
0.0.0	emissions for a certificate				
6.9.2	Information to be provided for dwellings				
6.9.3	Location of an energy performance certificate				
6.9.4	Conservatories and other stand- alone buildings				
	Ť				
6.10 Meter	ring				
6.10	Functional standard				
6.10.0	Introduction				
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doors and ro	mpensating U-values for windows, oflights				
Annex B Cor	mpensatory approach				



Certification Checklist

Domestic from Oct 2013



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6.0 In	itroduction			
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6.0.	.9 Conservatories and atria			
6.0.	.10 Performance of fixed building services			
6.0.				
6.0.	.12 Latest changes			
6.0.	.13 Relevant Legislation			
6.0.	.14 Certification			
6.1 Ca	arbon dioxide emissions			
6.1	Mandatory standard			
6.1.				
6.1.				
6.1.	0			

CEF	RTIFICA	TION CHECKLIST: Domestic App	olication Date Prior to 1 st Oct 2013
	6.1.3	Calculating carbon emissions for the	
		proposed dwelling (DER)	
	6.1.4	Buildings with multiple dwellings	
	6.1.5	Common areas in buildings with	
		multiple dwellings	
	6.1.6	A simplified approach	
	6.1.7	Conservatories and stand-alone	
		buildings	
6.2	Duildin	a inculation onvolono	
0.2	6.2	ng insulation envelope	
	6.2.0	Mandatory standard	
		Introduction	
	6.2.1	Maximum U-values	
	6.2.2	Areas of windows, doors and rooflights	
	6.2.3	Limiting heat loss through thermal	
	0.0.4	bridging	
	6.2.4	Limiting uncontrolled air infiltration	
	6.2.5	Air-tightness testing	
	6.2.6	Conversion of unheated buildings	
	6.2.7	Conversion of heated buildings	
	6.2.8	Conversion of historic, listed or	
	0.0.0	traditional buildings	
	6.2.9	Extensions to the insulation envelope	
	6.2.10	Thermal bridging and air infiltration for	
	0.0.44	existing buildings	
	6.2.11	Alterations to the insulation envelope	
	6.2.12	Conservatories	
	6.2.13	Stand-alone buildings	
6.3	Heatin	ig system	
	6.3	Mandatory standard	
	6.3.0	Introduction	
	6.3.1	Gas and oil wet central heating	
		efficiency	
	6.3.2	Solid fuel wet central heating	
		efficiency	

CER	RTIFICA	TION CHECKLIST: Domestic Ap	plication Date Prior to 1 st Oct 2013
	6.3.3	Electric wet central heating efficiency	
	6.3.4	Heat pump system efficiency (warm	
		and hot water)	
	6.3.5	Dry central heating systems efficiency	
	6.3.6	Solar water heating efficiency	
	6.3.7	Mico combined heat and power	
		efficiency	
	6.3.8	Efficiency of heating system	
		circulators	
	6.3.9	Controls for wet space heating and hot	
		water systems	
	6.3.10	Controls for dry space heating and hot	
		water systems	
	6.3.11	Controls for combined warm air and	
		hot water systems	
	6.3.12	Controls for solar water heating	
	6.3.13	Work on existing buildings	
	6.3.14	Conservatories	
6.4		tion of pipes, ducts and vessels	
	6.4	Mandatory standard	
	6.4.0	Introduction	
	6.4.1	Insulation of pipes and ducts	
	6.4.2	Insulation of vessels	
	6.4.3	Work on existing buildings	
6.5		al and display lighting	
	6.5	Mandatory standard	
	6.5.0	Introduction	
	6.5.1	Fixed internal lighting	
	6.5.2	Fixed external lighting	
6.6		anical ventilation and air conditioning	
	6.6	Mandatory standard	
	6.6.0	Introduction	
	6.6.1	Form and fabric of the building	

CER	TIFICA	TION CHECKLIST: Domestic Apr	plication Date Prior to 1 st Oct 2013
	6.6.2	Efficiency of air conditioning systems	
	6.6.3	Efficiency of mechanical ventilation	
		systems	
6.7		nissioning building services	
	6.7	Mandatory standard	
	6.7.0	Introduction	
	6.7.1	Inspection and commissioning	
6.8	Writte	n Information	
	6.8	Mandatory standard	
	6.8.0	Introduction	
	6.8.1	Written information	
	6.8.2	Work on existing buildings	
6.9	Energ	y performance certificate	
	6.9	Mandatory standard	
	6.9.0	Introduction	
	6.9.1	Calculating the carbon dioxide	
		emissions for a certificate	
	6.9.2	Information to be provided for	
		dwellings	
	6.9.3	Location of an energy performance	
		certificate	
	6.9.4	Conservatories and other stand-	
		alone buildings	
6.10			
	6.10	Mandatory standard	
	6.10.0	Introduction	
6A		ensating U-values for windows,	
		and rooflights	
	6.A.0	Introduction	

6.A.					
	windows, doors and rooflights				
	ompensatory approach – heat loss				
	ample 0 Introduction				
6.B.					
6.B.					
<u> </u>	rooms in a roof space				
6.B.					
<u>6.B</u> .					
6.B.					
6.B.	 5 Additional insulation work -5 and 7 Issues. Outline any pertinent p 	points raised regardir	ng other sections	of the regulations	
		points raised regardir	ng other sections	of the regulations	
		points raised regardir	ng other sections	of the regulations	
		points raised regardir	ng other sections	of the regulations	
		points raised regardir	ng other sections	of the regulations	
		points raised regardir	ng other sections	of the regulations	
		points raised regardir	ng other sections	of the regulations	
		points raised regardir	ng other sections	of the regulations	
		points raised regardir	ng other sections	of the regulations	



Certification Checklist

Domestic from Oct 2015



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Job Ref:	
Project Description:	
Warrant N°:	(if known)
Agent:	
Other Certifiers/	
	Project Description: Warrant Nº: Agent:

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6.0	Introdu	Iction			
	6.0.1	Background			
	5.0.2	Aims			
	5.0.3	General guidance			
	6.0.4	U-Values			
	6.0.5	Thermal conductivity			
6	6.0.6	Thermal transmittance through separating elements			
6	6.0.7	Buffering effects on the insulation envelop			
6	8.0.8	Roofs that performs the function of a floor			
6	6.0.9	Conservatories and atria			
6	6.0.10	Performance of fixed building services			
6	6.0.11	Calculation of areas			
6	6.0.12	Latest changes			
6	6.0.13	Relevant Legislation			
6	6.0.14	Certification			
5.1	Carbo	n dioxide emissions			
	6.1	Mandatory standard			
	5.1.0	Introduction			
	5.1.1	Dwellings			
	5.1.2	Setting the target carbon emissions level (TER)			

CEF	RTIFICA	TION CHECKLIST: Domestic App	Dication Date From 1 st Oct 201	15 Onwards	
	6.1.3	Calculating carbon emissions for the			
		proposed dwelling (DER)			
	6.1.4	Buildings with multiple dwellings			
	6.1.5	Common areas in buildings with			
		multiple dwellings			
	6.1.6	A simplified approach			
	6.1.7	Conservatories and stand-alone			
		buildings			
6.2		ng insulation envelope			
	6.2	Mandatory standard			
	6.2.0	Introduction			
	6.2.1	Maximum U-values for new buildings			
	6.2.2	Areas of windows, doors and rooflights			
	6.2.3	Limiting heat loss through thermal			
		bridging			
	6.2.4	Limiting uncontrolled air infiltration			
	6.2.5	Air-tightness testing			
	6.2.6	Introducing heating to unheated			
		buildings and conversion of unheated			
		buildings			
	6.2.7	Conversion of heated buildings			
	6.2.8	Conversion of historic, listed or			
		traditional buildings			
	6.2.9	Extensions to the insulation envelope			
	6.2.10	Thermal bridging and air infiltration for			
		existing buildings			
	6.2.11	Alterations to the insulation envelope			
	6.2.12	Conservatories			
	6.2.13	Stand-alone buildings			
6.3		ng system			
	6.3	Mandatory standard			
	6.3.0	Introduction			
	6.3.1	Performance of fixed heating systems			
		in new and existing buildings			

CEF	RTIFICA	TION CHECKLIST: Domestic Ap	plication Date From 1 st Oct 20	15 Onwards	
	6.3.2	Conservatories			
6.4	Insula	tion of pipes, ducts and vessels			
	6.4	Mandatory standard			
	6.4.0	Introduction			
	6.4.1	Insulation of pipes, ducts and vessels			
		in new and existing buildings			
	6.4.2	Work on existing buildings			
6.5	Artifici	al and display lighting			
0.5	6.5	Mandatory standard			
	6.5.0	Introduction			
	6.5.1	Fixed lighting			
	0.0.1				
6.6	Mecha	anical ventilation and air conditioning			
0.0	6.6	Mandatory standard			
	6.6.0	Introduction			
	6.6.1	Form and fabric of the building			
	6.6.2	Efficiency of mechanical ventilation			
		and air conditioning systems in new			
		and existing buildings			
	6.6.3	Design and installation of ductwork			
6.7		nissioning building services			
	6.7	Mandatory standard			
	6.7.0	Introduction			
	6.7.1	Inspection and commissioning			
6.8		n Information			
	6.8	Mandatory standard			
	6.8.0	Introduction			
	6.8.1	Written information			
	6.8.2	Quick Start Guide			
	6.8.3	Work on existing buildings			
6.9		y performance certificate			
	6.9	Mandatory standard			
	6.9.0	Introduction			

CEF	RTIFICA	TION CHECKLIST: Domestic App	blication Date From 1 st Oct 2015 Onwards	
	6.9.1	Calculating the carbon dioxide emissions for a certificate		
	6.9.2	Information to be provided for buildings		
	6.9.3	Location of an energy performance certificate		
	6.9.4	Conservatories and other stand-alone buildings		
6.10	Meteri	ing		
	6.10	Mandatory standard		
	6.10.0	Introduction		
6A		ensating U-values for windows, doors ooflights		
	6.A.0	Introduction		
	6.A.1	Example of trade-off between windows, doors and rooflights		
6B	Compe	ensatory approach – heat loss example		
08	6.B.0	Introduction	·	
	6.B.1	Example: alteration to create rooms in a roof space		
	6.B.2	Example: single storey extension		
	6.B.3	Example: single storey extension subject to column (a)		

CERTIFICATION CHECKLIST: Domestic Application Date From 1st Oct 2015 Onwards Section 1-5 and 7 Issues. Outline any pertinent points raised regarding other sections of the regulations:

Checklist		Designer ie:	Supporting Information ie:	Design Provision ie:
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reterenced of	therwise insert full text.	ACD, (name), PS	D, Calc, SR, ML, Cert, S1	(reference), Calc, Q
Section 1	Introduction			
1.1	Scope			
1.2	Innovative systems			
1.3	European Directive			
1.4	Status of guide			
1.5	How to use this guide			
1.6	Key terms			
1.7	Work on existing systems			
1.8	Replacement of primary heating appliances			
1.9	Summary of recommended minimum			
	energy efficiency standards			
Section 2	Gas-fired space and water heating			
2.1	Scope of guidance			
2.2	Gas-fired wet central heating systems			
2.3	Gas-fired range cookers with integral central heating boiler			
2.4	Gas-fired range warm air heating			
2.5	Gas-fired fixed independent space heating appliances			
2.6	Gas-fired decorative fuel-effect fires			
2.7	Gas-fired for secondary space heating provided as part of a combined fire and back boiler unit			

	ATION CHECKLIST: Domestic Ap Services Compliance Guide For S	ct 2015	
Section 3	Oil-fired space and water heating		
3.1	Scope of the guidance		
3.2	Oil-fired wet central heating systems		
3.3	Oil-fired range cookers with integral central heating boilers		
3.4	Continuously-burning oil-fired vaporising appliances providing secondary hating or hot water		
3.5	Oil-fired fixed independent space heating appliances		
3.6	Supplementary information		
Section 4	Electric heating		
4.1	Scope of the guidance		
4.2	Electric boilers serving central heating		
	systems		
4.3	Electric heating systems (other than electric boilers for central heating)		
Section 5	Solid fuel heating		
5.1	Scope of the guidance		
5.2	Solid fuel appliances for primary heating		
5.3	Central heating systems using certain types of solid fuel appliances		
5.4	Solid fuel appliances for secondary heating		
	• • • •	 	
Section 6	Community Heating		
6.1	Scope of the guidance		
6.2	New and existing community heating schemes		
Section 7	Underfloor heating		
7.1	Scope of the guidance		

CERTIFICA	ATION CHECKLIST: Domestic Ap	polication Date From 1	st Oct 2015	
	Services Compliance Guide For		000 2010	
7.2	Underfloor heating in new dwellings			
	enderneer nedding in new direininge			
Section 8	Mechanical ventilation			
8.1	Scope of the guidance			
8.2	Energy efficiency of mechanical			
	ventilation systems			
Os stisus 0				
Section 9	Heat pumps			
9.1	Scope of the guidance			
9.2 9.3	Key terms Warm water and hot water heat			
9.5	pumps			
	pumps			
Section 10	Comfort cooling			
10.1	Scope of the guidance			
10.2	Air-cooled and water-cooled air			
	conditioners			
0 11 11				
Section 11	Solar water heating	-		
11.1	Scope of the guidance			
11.2	Indirect systems			
Section 12	Lighting			
12.1	Scope of the guidance			
12.2	Key terms			
12.3	Internal and External lighting			
	× ×			
Section 13	Micro-combined heat and power			
13.1	Scope of the guidance			
13.2	Key terms			
13.3	Micro-CHP systems			
Section 14	Heating overeme airculators			
14.1	Heating systems circulators			
14.1	Scope of the guidance			



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Non-Domestic from Oct 2015



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If any of the attributes in this table is reflected in the project, then it is considered an "AB Non-dom" project and can only be certified, within the RIAS-regs Scheme, by an Approved Certifier of Design (Section 6 - Energy) AB Non-domestic.	Yes / No
Any new or existing building requiring a new boiler or multiple linked boilers and heating devices with an input \ge 70kW. to which BS6644: 2011 applies	
Altering, extending or converting any existing building requiring a heating system with an output \ge 70kW ???. Except where the alterations to the existing heating impact on a section or sections of the system with less than a 7kW output.	
Any new or existing building requiring one or more ducted ventilation systems, made up of multiple components. Except where none of those systems is capable of individually delivering > 200l/sec supply or extract air and each system is provided with their own package controls.	
Any new or existing building requiring one or more cooling systems, made up of multiple components. Except where none of those systems has an individually cooling capacity > 12 kW and each system is provided with their own package controls.	
Any works including individual biomass boilers with an output > 45kW	
Any works including individual ASHP or a GSHP's with an output > 45kW	
Any works including individual photovoltaic arrays with a peak generating capacity > 6kW	
Any works including individual solar thermal arrays with a peak generating capacity > 6kW	
Any works including a Combined Heat and Power (CHP) systems with a maximum electrical generating capacity > 6kWe	
Any works including individual wind turbines with a peak generating capacity > 6kW	
Any works including individual hydro turbines with a peak generating capacity > 6kW	
Are you relying on your own full lighting design scheme for input figures	

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		erwise insert full text.	ACD, (name), PS	D, Calc, SR, ML, Cert, S1	(reference), Calc, Q
6.0	Introdu	uction			
	6.0.1	Background			
	6.0.2	Aims			
	6.0.3	General guidance			
	6.0.4	U-Values			
	6.0.5	Thermal conductivity			
	6.0.6	Thermal transmittance through separating elements			
	6.0.7	Buffering effects on the insulation envelop			
	6.0.8	Roofs that performs the function of a floor			
	6.0.9	Atria			
	6.0.10	Annexes to guidance			
	6.0.11	Performance of fixed building services			
	6.0.12	Calculation of areas			
	6.0.13	Latest changes			
	6.0.14	Relevant Legislation			
	6.0.15	Certification			
6.1		n dioxide emissions			
	6.1	Mandatory standard			
	6.1.0	Introduction			
	6.1.1	Simplified Building Energy Model (SBEM)			
	6.1.2	Summary of procedure			

CEF	RTIFICA	TION CHECKLIST: Non-domestic	c Application Date From 1 st Oct 2015 Onwards
	6.1.3	The "Notional" building and SBEM	
		calculation tool	
	6.1.4	Fabric and fixed building services	
		specification for "notional" building	
	6.1.5	User defined information for "Notional"	
		building	
	6.1.6	Calculating the building carbon dioxide	
		emission rate (BER)	
	6.1.7	Adjustment of BER	
	6.1.8	Shell and fit-out buildings	
6.2		ng insulation envelope	
	6.2	Mandatory standard	
	6.2.0	Introduction	
	6.2.1	Maximum U-values for new buildings	
	6.2.2	Display windows	
	6.2.3	Areas of windows, doors and rooflights	
	6.2.4	Shell and fit-out buildings	
	6.2.5	Limiting heat loss through thermal	
		bridging	
	6.2.6	Limiting air infiltration	
	6.2.7	Air-tightness testing	
	6.2.8	Introducing heating to unheated	
		buildings and conversion of unheated	
		buildings	
	6.2.9	Conversion of heated buildings	
	6.2.10	Conversion of historic, listed or	
		traditional buildings	
	6.2.11	Extensions to the insulation envelope	
	6.2.12	Thermal bridging and air infiltration for	
		existing buildings	
	6.2.13	Alterations to the insulation envelope	
6.3		ig system	
	6.3	Mandatory standard	
	6.3.0	Introduction	

CEF	RTIFICA	TION CHECKLIST: Non-domesti	ic Application Date From 1 st Oct 2015 Onwards
	6.3.1	Performance of fixed heating systems	
		in new and existing buildings	
	6.3.2	Consequential improvement	
		· ·	
6.4	Insula	tion of pipes, ducts and vessels	
	6.4	Mandatory standard	
	6.4.0	Introduction	
	6.4.1	Insulation of pipes, ducts and vessels	
		into new and existing buildings	
	6.4.2	Work on existing buildings	
	6.4.3	Consequential improvement	
6.5		ial and display lighting	
	6.5	Mandatory standard	
	6.5.0	Introduction	
	6.5.1	Lighting efficiency and controls	
	6.5.2	Consequential improvement	
6.6		anical ventilation and air conditioning	
	(MVA		
	6.6	Mandatory standard	
	6.6.0	Introduction	
	6.6.1	Form and fabric in relation to MVAC	
		equipment	
	6.6.2	MVAC equipment efficiency,	
		distribution systems and controls in	
		new and existing buildings	
	6.6.3	Consequential improvement	
6.7		nissioning building services	
	6.7	Mandatory standard	
	6.7.0	Introduction	
	6.7.1	Inspection and commissioning	
	6.7.2	Ductwork leakage testing	
	6.7.3	Work on existing buildings	
6.8	Writte	n Information	

CER	RTIFICA	TION CHECKLIST: Non-domesti	c Application Date From ²	st Oct 2015 Onwards	
	6.8	Mandatory standard	••		
	6.8.0	Introduction			
	6.8.1	Logbook information			
	6.8.2	Work on existing buildings			
		0 0			
6.9	Energy	y performance certificate			
	6.9	Mandatory standard			
	6.9.0	Introduction			
	6.9.1	Calculating the carbon dioxide			
		emissions for a certificate			
	6.9.2	Information to be provided for			
		buildings			
	6.9.3	Location of an energy performance			
		certificate			
	6.9.4	Small stand-alone buildings			
	6.10	Metering			
	6.10	Mandatory standard			
	6.10.0	Introduction			
	6.10.1	Metering			
	6.10.2	Sub-metering			
	6.10.3	Meeting and sub-metering in existing			
		buildings			
6.A	Compensating U-values for windows, doors				
		of-lights			
	6.A.0	Introduction			
	6.A.1	Example of trade-off between			
		windows, doors and roof-lights			
6.B		nsatory approach – heat loss example			
	6.B.0	Introduction			
	6.B.1	Example - extension to an existing			
		building			
	6.B.2	Proposed extension			
	6.B.3	"Notional extension"			
	6.B.4	The comparison			

6.C	Enerav	TION CHECKLIST: Non-domestic performance of modular and portable		
	buildin			
	6.C.0	Introduction		
	6.C.1	Compliance flowchart		
	6.C.2	Determining the Target Emissions		
		Rate for permanent modular and		
		portable buildings		
	6.C.3	Fabric U-values for modular and		
		portable buildings		
6.D	Improvement to the energy performance of			
	existing building services when carrying out			
	building work			
	6.D.0	Introduction		
	6.D.1	Application of Direction	 	
	6.D.2	Scope of improvements (types of		
		installations which should be		
		addressed)		
	6.D.3	Extent of improvement required		
	0.5.4	(assessing cost and practicality)		
	6.D.4	Assessment by applicant		
	6.D.5	Review by verifier		
	6.D.6	The role of the Local Authority		
	6.D.7	Supplementary information - Exclusion		
	0.0.0	by compliance with previous standards		
	6.D.8	Examples of the process	 	

CERTIFICATION CHECKLIST: Non-domestic Application Date From 1st Oct 2015 Onwards Section 1-5 and 7 Issues. Outline any pertinent points raised regarding other sections of the regulations:

RIAS - Energy Design Certification Checklist Non-domestic from Oct 2015

CERTIFIC	ATION CHECKLIST: Non-domesti	c Application Date Fror	n 1 st Oct 2015 Onwards	
	estic Services Compliance Guide			
Checklist Only comple	ete those boxes that are relevant.	Designer ie: Certifier, Other Designer (name) or Performance Specification ACD, (name), PS	Supporting Information ie: On drawings, calculations, specialist reports, manufacturers literature / certificates or Schedule 1 item D, Calc, SR, ML, Cert, S1	Design Provision ie: Within limits set, or British Standard, Eurocode etc cited, or calculations attached, or Form Q required, etc (reference), Calc, Q
	therwise insert full text.			
Section 1	Introduction			
1.1	Scope			
1.2	Innovative systems			
1.3	European Directive			
1.4	Status of guide			
1.5	How to use this guide			
1.6	Key terms for space heating and domestic hot water systems			
1.7	Summary of recommended minimum energy efficiency standards			
Section 2	Gas, oil and biomass-fired boilers			
2.1	Introduction			
2.2	Scope of guidance			
2.3	Key terms			
2.4	Determining boiler seasonal efficiency			
2.5	Boilers in new buildings			
2.6	Boilers in existing buildings			
2.7	Heating efficiency credits for			
	replacement boilers			
2.8	Biomass boilers			
Section 3	Heat pumps			
3.1	Introduction			
3.2	Scope of the guidance			
3.3	Key terms			
3.4	Heat pumps in new and existing			

	buildings		
3.5	Heating efficiency credits for heat	 	
0.0	pump systems in existing buildings		
3.6	Supplementary information	 	
0.0		 	
Section 4	Gas and oil-fired warm air heaters		
4.1	Introduction		
4.2	Scope of the guidance		
4.3	Key terms		
4.4	Warm air heaters in new and existing		
	buildings		
4.5	Heating efficiency credits for warm air		
	heaters in new and existing buildings		
Section 5	Gas and oil-fired radiant heaters		
5.1	Introduction		
5.2	Scope of the guidance		
5.3	Key terms		
5.4	Radiant heaters		
5.5	Heating efficiency credits for radiant		
	heaters in existing buildings		
Section 6	Combined heat and power and		
	community heating		
6.1	Introduction		
6.2	Scope of the guidance		
6.3	Key terms		
6.4	CHP in new and existing buildings		
6.5	Supplementary information		
Section 7	Direct electric space heating		
7.1	Introduction		
7.2	Scope of the guidance		
7.3	Electric space heating in new and existing buildings		

	ATION CHECKLIST: Non-domesti		rom 1 st Oct 2015 Onwards	S
	estic Services Compliance Guide	For Scotland		
Section 8	Domestic hot water			
8.1	Introduction			
8.2	Scope of the guidance			
8.3	Key terms			
8.4	Domestic hot water systems in new and existing buildings			
8.5	Supplementary information on electric water heaters			
8.6	Heating efficiency credits for domestic hot water systems in new and existing buildings			
Section 9	Comfort cooling			
9.1	Introduction			
9.2	Scope of guidance			
9.3	Key items			
9.4	Comfort cooling in new and existing buildings			
9.5	Calculating the seasonal energy efficiency ratio for SBEM			
9.6	Supplementary information			
Section 10	Air distribution			
10.1	Introduction			
10.2	Scope of guidance			
10.3	Key items			
10.4	Air distribution systems in new and existing buildings			
10.5	Heat recovery in air distribution systems in new and existing buildings			
10.6	Calculating the specific fan power for SBEM			
Section 11	Solar water heating			
11.1	Introduction			
11.2	Scope of the guidance			
11.2	Scope of the guidance			

11.3	Insulation of pipes and ducts in new	
	and existing buildings	
Section 12	Lighting	
12.1	Scope of the guidance	
12.2	Key terms	
12.3	Internal and External lighting	
Section 12	Lighting	
12.1	Introduction	
12.2	Scope of the guidance	
12.3	Key terms	
12.4	Lighting in new and existing buildings	
12.5	Lighting Energy Numerical Indicator (LEN)	
Section 13	Heating and cooling system	
	circulators and water pumps	
13.1	Introduction	
13.2	Scope of guidance	
13.3	Key terms	
13.4	Glandless circulators and water	
	pumps in new and existing buildings	
13.5	Supplementary information	



RIAS-regs

Certification Checklist

And an example of a typical complete checklist.



CERTIFICATION CHECKLIST: Application Date 1st Oct 2010 onwards

Date:	2 October 2018	Job Ref:	Job No 1
Project Title:	Checkers	Project Description: N	lew Dwelling
Project Location:	No 1, Second Street	, Third Town, TT12 3A	3
Certificate Nº:	C9999999	Warrant N°:	18/01234
Client:	Mr & Mrs C Lient	Agent:	T-Square & Ass
Designers/ Roles:	T-Square & Ass Architects	Other Certifiers/	R Crete Engineering Struct Engineers

Approved Certifier is Applicant / Agent Yes / No

This Checklist is to be read in conjunction with those drawings, specifications and schedules etc which document the design being certified.

A copy of this checklist must be kept with the project details and any Certificates of Design and copy provided to the Building Warrant Applicant / Agent.

This checklist should not be copied to the Local Authority as part of the Building Warrant application.

List of Drawings, Specifications and Schedules referenced including amendments and location of materials (continue on a separate sheet if required):

T Square & Associates drawings BW (--) 001, 002A, 003 and 004C and R Crete drawings Eng 001, 002A.

This is a single stage warrant for the complete works.

Signed

Date

CER	CERTIFICATION CHECKLIST: Domestic Application Date From 1 st Oct 2015 Onwards						
Chec		•	Designer ie:	Supporting Information ie:	Design Provision ie:		
Only	complet	e those boxes that are relevant.	Certifier, Other Designer	On drawings, calculations,	Within limits set, or		
-	-		(name) or Performance	specialist reports,	British Standard, Eurocode etc cited, or		
			Specification	manufacturers literature /	calculations attached, or		
				certificates or Schedule 1	Form Q required, etc		
		previations is acceptable, where		item			
refere	enced oth	erwise insert full text.	ACD, (name), PS	D, Calc, SR, ML, Cert, S1	(reference), Calc, Q		
6.0	Introdu	iction					
0.0	6.0.1	Background					
	6.0.2	Aims					
	6.0.3	General guidance					
	6.0.4	U-Values	Architect	Calcs from Warm and	Calculations to BS EN ISO 6946, BS EN		
				Toastie Insulation Limited.	ISO 13370 attached. U value of openings		
					stated on drawings.		
	6.0.5	Thermal conductivity					
	6.0.6	Thermal transmittance through	Architect	Drawings	None		
		separating elements					
	6.0.7	Buffering effects on the insulation	None				
		envelop					
	6.0.8	Roofs that performs the function of a	None				
		floor					
	6.0.9	Conservatories and atria	None				
	6.0.10	Performance of fixed building services	Architect	Minimum Performance	Specialist contractor		
	6.0.11	Calculation of areas					
	6.0.12	Latest changes					
	6.0.13	Relevant Legislation	N/A Floor area < 1,000m ²				
	6.0.14	Certification					
0.4	0.1						
6.1		n dioxide emissions					
	6.1	Mandatory standard					
	6.1.0	Introduction					
	6.1.1	Dwellings	O antifican		Colouistion attached		
	6.1.2	Setting the target carbon emissions level (TER)	Certifier	DER/TER calculation using SAP 2012	Calculation attached		

 6.1.3	Calculating carbon emissions for the	Certifier	DER/TER calculation using	Calculation attached
	proposed dwelling (DER)		SAP 2012	
6.1.4	Buildings with multiple dwellings	N/A		
6.1.5	Common areas in buildings with multiple dwellings	N/A		
6.1.6	A simplified approach	N/A		
6.1.7	Conservatories and stand-alone buildings	None		
Buildin	ng insulation envelope			
6.2	Mandatory standard			
6.2.0	Introduction			
6.2.1	Maximum U-values for new buildings	Architect	Calcs from Warm and Toastie Insulation Limited.	Calculations to BS EN ISO 6946, BS EN ISO 13370 attached
6.2.2	Areas of windows, doors and rooflights	Certifier	DER/TER calculation using SAP 2012	Calculation attached
6.2.3	Limiting heat loss through thermal bridging	Architect	DER/TER calculation using SAP 2012	Calculation attached
6.2.4	Limiting uncontrolled air infiltration	Architect	Drawings	Specialist testing to be undertaken on completion Air Tightness to ATTMA "TS Minimum Performance 4m ³ /m ² @ 50Pas
6.2.5	Air-tightness testing	Architect	Drawings	Specialist testing to be undertaken on completion Air Tightness to ATTMA "TS Minimum Performance 4m ³ /m ² @ 50Pas
6.2.6	Introducing heating to unheated buildings and conversion of unheated buildings	N/A		
6.2.7	Conversion of heated buildings	N/A		
 6.2.8	Conversion of historic, listed or traditional buildings	N/A		
6.2.9	Extensions to the insulation envelope	N/A		
6.2.10	Thermal bridging and air infiltration for existing buildings	N/A		
6.2.11	Alterations to the insulation envelope	N/A		
6.2.12	Conservatories	N/A		
 6.2.13	Stand-alone buildings	N/A		

6.3 Mandatory standard 6.3.0 Introduction 6.3.1 Performance of fixed heating systems in new and existing buildings Architect Drawings New work meets the requirements of the Domestic Services Compliance Guide 6.3.2 Conservatories N/A Image: Conservatories Image: Conservatories 6.4 Insulation of pipes, ducts and vessels Architects Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.4.1 Insulation of pipes, ducts and vessels Architects Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.5.1 Fixed lighting Image: Construction Image: Construction New work meets the requirements of the Domestic Services Compliance Guide 6.6 Mandatory standard Image: Construction Image: Construction New work meets the requirements of the Domestic Services Compliance Guide 6.5.1 Fixed lighting Image: Construction Image: Construction New work meets the requirements of the Domestic Services Compliance Guide 6.6 Mechanical ventilation and air conditioning Image: Construction Image: Construction New work meets the requirements of the Domestic Services Compliance Guide	CERTIFICATION CHECKLIST: Domestic Ap	plication Date From	1 1 st Oct 2015 Onwards	- I
6.3.0 Introduction Architect Drawings New work meets the requirements of the Domestic Services Compliance Guide 6.3.1 Performance of fixed heating systems in new and existing buildings N/A New work meets the requirements of the Domestic Services Compliance Guide 6.3.2 Conservatories N/A Insulation of pipes, ducts and vessels New work meets the requirements of the Domestic Services Compliance Guide 6.4 Mandatory standard Architects Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.4.1 Insulation of pipes, ducts and vessels Architects Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.4.2 Work on existing buildings N/A Introduction New work meets the requirements of the Domestic Services Compliance Guide 6.5.1 Fixed lighting Architects Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.6 Mandatory standard Architects Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.6.1 Form and fabric of the building Architects Performance specification on drawings New work meets the requirements of the Som "hr. Where upper floor flats are not cross ventilated, window can be fully opened and the r				
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6.4 Mandatory standard Mandatory standard Mandatory standard 6.4.0 Introduction Architects Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.4.2 Work on existing buildings N/A Domestic Services Compliance Guide 6.4.2 Work on existing buildings N/A Domestic Services Compliance Guide 6.5.1 Artificial and display lighting Architects Performance specification on drawings 6.5.0 Introduction Architects Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.6 Mandatory standard Architects Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.6 Mandatory standard Architects Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.6.1 Form and fabric of the building Architects Drawings Cross ventilation provided to ground floor flats 1 and 2. Centralised extract fans to Plots 3 and 4 fitted with a 'purge' switch to extract at a rate of 350m ³ /hr. Where upper floor flats are not cross ventilated, window can be fully opened and the risk of overheating is not significant or moderate as per SAP2012 calculations	6.3.2 Conservatories	N/A		
6.4 Mandatory standard Mandatory standard Mandatory standard 6.4.0 Introduction Architects Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.4.2 Work on existing buildings N/A Domestic Services Compliance Guide 6.4.2 Work on existing buildings N/A Domestic Services Compliance Guide 6.5.1 Artificial and display lighting Architects Performance specification on drawings 6.5.0 Introduction Architects Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.6 Mandatory standard Architects Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.6 Mandatory standard Architects Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.6.1 Form and fabric of the building Architects Drawings Cross ventilation provided to ground floor flats 1 and 2. Centralised extract fans to Plots 3 and 4 fitted with a 'purge' switch to extract at a rate of 350m ³ /hr. Where upper floor flats are not cross ventilated, window can be fully opened and the risk of overheating is not significant or moderate as per SAP2012 calculations	6.4 Insulation of pipes ducts and vessels			
6.4.0 Introduction Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.4.1 Insulation of pipes, ducts and vessels Architects Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.4.2 Work on existing buildings N/A Domestic Services Compliance Guide 6.5.1 Artificial and display lighting Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.5.1 Fixed lighting Architects Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.6 Mandatory standard Domestic Services Compliance Guide Domestic Services Compliance Guide 6.6 Mandatory standard Cross ventilation and air conditioning Domestic Services Compliance Guide 6.6.1 Form and fabric of the building Architects Drawings Cross ventilation provided to ground floor flats 1 and 2. Centralised extract fans to Plots 3 and 4 fitted with a 'purge' switch to extract at a rate of 350m³/hr. Where upper floor flats are not cross ventilated, window can be fully opened and the risk of overheating is not significant or moderate as per SAP2012 calculations 6.6.2 Efficiency of mechanical ventilation and air conditioning systems in new and				
6.4.1 Insulation of pipes, ducts and vessels in new and existing buildings Architects Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.4.2 Work on existing buildings N/A Image: Services Compliance Guide 6.5 Artificial and display lighting Image: Services Compliance Guide Image: Services Compliance Guide 6.5 Mandatory standard Image: Services Compliance Guide Image: Services Compliance Guide 6.5.1 Fixed lighting Architects Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.6 Mechanical ventilation and air conditioning Image: Services Compliance Guide Image: Services Compliance Guide 6.6.1 Form and fabric of the building Architects Drawings Cross ventilation provided to ground floor flats 1 and 2. Centralised extract fans to Plots 3 and 4 fitted with a 'purge' switch to extract at are of 350m/hr. Where upper floor flats are not cross ventilated, window can be fully opened and the risk of overheating is not significant or moderate as per SAP2012 calculations 6.6.2 Efficiency of mechanical ventilation and air conditioning systems in new and existing buildings N/A				
6.4.2 Work on existing buildings N/A 6.5 Artificial and display lighting	6.4.1 Insulation of pipes, ducts and vessels	Architects	Performance specification	
6.5 Artificial and display lighting	in new and existing buildings		on drawings	Domestic Services Compliance Guide
6.5 Mandatory standard Architects Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.5.1 Fixed lighting Architects Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.6 Mechanical ventilation and air conditioning 6.6 Mandatory standard 6.6.0 Introduction 6.6.1 Form and fabric of the building Architects Drawings Cross ventilation provided to ground floor flats 1 and 2. Centralised extract fans to Plots 3 and 4 fitted with a 'purge' switch to extract at a rate of 350m ³ /hr. Where upper floor flats are not cross ventilated, window: can be fully opened and the risk of overheating is not significant or moderate as per SAP2012 calculations 6.6.2 Efficiency of mechanical ventilation and air conditioning systems in new and existing buildings N/A	6.4.2 Work on existing buildings	N/A		
6.5 Mandatory standard Architects Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.5.1 Fixed lighting Architects Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.6 Mechanical ventilation and air conditioning 6.6 Mandatory standard 6.6.0 Introduction 6.6.1 Form and fabric of the building Architects Drawings Cross ventilation provided to ground floor flats 1 and 2. Centralised extract fans to Plots 3 and 4 fitted with a 'purge' switch to extract at a rate of 350m ³ /hr. Where upper floor flats are not cross ventilated, window: can be fully opened and the risk of overheating is not significant or moderate as per SAP2012 calculations 6.6.2 Efficiency of mechanical ventilation and air conditioning systems in new and existing buildings N/A	6.5 Artificial and display lighting			
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6.5.1 Fixed lighting Architects Performance specification on drawings New work meets the requirements of the Domestic Services Compliance Guide 6.6 Mechanical ventilation and air conditioning 6.6 Mandatory standard 6.6.0 Introduction 6.6.1 Form and fabric of the building Architects Drawings Cross ventilation provided to ground floor flats 1 and 2. Centralised extract fans to Plots 3 and 4 fitted with a 'purge' switch to extract at a rate of 350m³/hr. Where upper floor flats are not cross ventilated, window can be fully opened and the risk of overheating is not significant or moderate as per SAP2012 calculations 6.6.2 Efficiency of mechanical ventilation and air conditioning systems in new and existing buildings N/A	1			
6.6 Mandatory standard 6.6.0 Introduction 6.6.1 Form and fabric of the building 6.6.1 Form and fabric of the building Architects Drawings Cross ventilation provided to ground floor flats 1 and 2. Centralised extract fans to Plots 3 and 4 fitted with a 'purge' switch to extract at a rate of 350m ³ /hr. Where upper floor flats are not cross ventilated, window can be fully opened and the risk of overheating is not significant or moderate as per SAP2012 calculations 6.6.2 Efficiency of mechanical ventilation and air conditioning systems in new and existing buildings		Architects		
6.6 Mandatory standard Introduction 6.6.0 Introduction Cross ventilation provided to ground floor flats 1 and 2. Centralised extract fans to Plots 3 and 4 fitted with a 'purge' switch to extract at a rate of 350m ³ /hr. Where upper floor flats are not cross ventilated, window can be fully opened and the risk of overheating is not significant or moderate as per SAP2012 calculations 6.6.2 Efficiency of mechanical ventilation and air conditioning systems in new and existing buildings N/A	6.6 Mechanical ventilation and air conditioning			
6.6.0 Introduction 6.6.1 Form and fabric of the building Architects Drawings Cross ventilation provided to ground floor flats 1 and 2. Centralised extract fans to Plots 3 and 4 fitted with a 'purge' switch to extract at a rate of 350m ³ /hr. Where upper floor flats are not cross ventilated, window can be fully opened and the risk of overheating is not significant or moderate as per SAP2012 calculations 6.6.2 Efficiency of mechanical ventilation and air conditioning systems in new and existing buildings N/A				
6.6.2 Efficiency of mechanical ventilation and air conditioning systems in new and existing buildings N/A				
and air conditioning systems in new and existing buildings	6.6.1 Form and fabric of the building		Drawings	flats 1 and 2. Centralised extract fans to Plots 3 and 4 fitted with a 'purge' switch to extract at a rate of 350m ³ /hr. Where upper floor flats are not cross ventilated, windows can be fully opened and the risk of overheating is not significant or moderate
	and air conditioning systems in new	N/A		
		N/A		

CEF	CERTIFICATION CHECKLIST: Domestic Application Date From 1 st Oct 2015 Onwards					
6.7		nissioning building services				
	6.7	Mandatory standard				
	6.7.0	Introduction				
	6.7.1	Inspection and commissioning	Architects	Performance specification on drawings	Inspection and commissioning by installer	
6.8	Writte	n Information				
	6.8	Mandatory standard				
	6.8.0	Introduction				
	6.8.1	Written information	Architects	Performance specification on drawings	Written information to be made available to occupier.	
	6.8.2	Quick Start Guide	Architects	Performance specification on drawings	Quick Start Guide to be made available to occupier.	
	6.8.3	Work on existing buildings	N/A			
6.9	Energ	y performance certificate				
0.3	6.9	Mandatory standard				
	6.9.0	Introduction				
	6.9.1	Calculating the carbon dioxide emissions for a certificate	Certifier	Performance specification on drawings	EPC to be provided in accordance with the Energy Performance of Buildings (Scotland) Regulations 2008 as amended.	
	6.9.2	Information to be provided for buildings	Certifier	Performance specification on drawings	EPC to be provided in accordance with the Energy Performance of Buildings (Scotland) Regulations 2008 as amended.	
	6.9.3	Location of an energy performance certificate	Architect	Performance specification on drawings	EPC locations shown on drawings.	
	6.9.4	Conservatories and other stand-alone buildings	N/A			
6.10			N/A			
6.10		atory standard				
6.10	.0 Introdu	uction				
6A	and ro	ensating U-values for windows, doors poflights	N/A			
	6.A.0	Introduction				
	6.A.1	Example of trade-off between windows, doors and rooflights				

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6B	Compe	ensatory approach – heat loss example	N/A			
	6.B.0	Introduction				
	6.B.1	Example: alteration to create rooms in a roof space				
	6.B.2	Example: single storey extension				
	6.B.3	Example: single storey extension subject to column (a)				

Section 1-5 and 7 Issues. Outline any pertinent points raised regarding other sections of the regulations:

• Construction build up is in line with good practice for the avoidance of interstitial condensation

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	Domestic Services Compliance Guide For Scotland						
Checklist Only complete those boxes that are relevant. The use of abbreviations is acceptable, where referenced otherwise insert full text.		Designer ie: Certifier, Other Designer (name) or Performance Specification ACD, (name), PS	Supporting Information ie: On drawings, calculations, specialist reports, manufacturers literature / certificates or Schedule 1 item D, Calc, SR, ML, Cert, S1	Design Provision ie: Within limits set, or British Standard, Eurocode etc cited, or calculations attached, or Form Q required, etc (reference), Calc, Q			
Section 1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9	IntroductionScopeInnovative systemsEuropean DirectiveStatus of guideHow to use this guideKey termsWork on existing systemsReplacement of primary heating appliancesSummary of recommended minimum energy efficiency standards	N/A N/A N/A					
Section 2	Gas-fired space and water heating						
2.1	Scope of guidance						
2.2	Gas-fired wet central heating systems	Architects	Specification on drawings	Ideal Logic Combi ESP1 30 reference017956 SEDBUK 2009 efficiencyrequirement of 88%. System to be designedto achieve a return water temperature<55°C where possible.			

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	Heating system to be fully pumped and provided with a bypass value if required by the boiler manufacturer in accordance with their requirements.				
	During final filling of the system, a chemical water treatment inhibitor meeting the manufacturer's specification or other appropriate standard should be added to the primary circuit to control corrosion and the formation of scale and sludge.				
	Installers should also refer to the boiler manufacturer's installation instructions for appropriate treatment products and special requirements for individual boiler models.				
	Where the mains total water hardness exceeds 200 parts per million, provision should be made to treat the feed water to water heaters and the hot water circuit of combination boilers to reduce the rate of accumulation of limescale.				
	On completion of the installation boiler and associated equipment such as pipework, pumps and controls, the equipment should be commissioned in accordance with the manufacturer's instructions.				
	These instructions will be specific to the boiler.				
	The installer should explain fully to the user how to operate the system in an energy efficient manner, and leave behind any user				

CERTIFIC	CERTIFICATION CHECKLIST: Domestic Application Date From 1 st Oct 2015 Onwards					
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	·		manuals provided by manufacturers			
			Insulate pipework in accordance with the following table: Pipe outside Maximum heat diameter (mm) loss (W/m) 8 7.06 10 7.23 12 7.35 15 7.89 22 9.12 28 10.07 35 11.08 42 12.19 54 14.12 Based on a horizontal pipe at 60°C in still air at 15°C Pipes insulated in accordance with BS 5422 and BR 262.			
2.3	Gas-fired range cookers with integral central heating boiler	N/A				
2.4	Gas-fired range warm air heating	N/A				
2.5	Gas-fired fixed independent space heating appliances	N/A				
2.6	Gas-fired decorative fuel-effect fires	N/A				
2.7	Gas-fired for secondary space heating provided as part of a combined fire and back boiler unit	N/A				
Section 3	Oil-fired space and water heating					
3.1	Scope of the guidance					
3.2	Oil-fired wet central heating systems	N/A				
3.3	Oil-fired range cookers with integral central heating boilers	N/A				
3.4	Continuously-burning oil-fired vaporising appliances providing	N/A				

CERTIFIC	CERTIFICATION CHECKLIST: Domestic Application Date From 1 st Oct 2015 Onwards						
Domestic	Domestic Services Compliance Guide For Scotland						
	secondary hating or hot water						
3.5	Oil-fired fixed independent space heating appliances	N/A					
3.6	Supplementary information	N/A					
Section 4	Electric heating						
4.1	Scope of the guidance						
4.2	Electric boilers serving central heating systems	Architects	Specification on drawings	Electrical panel heaters to stairs have integral or separate time switch, and integral or room temperature control, or by programmable room thermostats			
4.3	Electric heating systems (other than electric boilers for central heating)	N/A					
Section 5	Solid fuel heating						
5.1	Scope of the guidance						
5.2	Solid fuel appliances for primary heating	N/A					
5.3	Central heating systems using certain types of solid fuel appliances	N/A					
5.4	Solid fuel appliances for secondary heating	N/A					
Continu C	Community Heating						
Section 6	Community Heating Scope of the guidance						
6.1 6.2	New and existing community heating	N/A					
0.2	schemes	N/A					
Section 7	Underfloor heating						
7.1	Scope of the guidance						
7.2	Underfloor heating in new dwellings	N/A					
O a attact of	Mashaniaalaantiistist						
Section 8	Mechanical ventilation						
8.1	Scope of the guidance						

8.2	Energy efficiency of mechanical ventilation systems	Architects	Specification on drawings	Vent-Axia MVDC-MS A ref: 500295. Extract fans to Plots 3 and 4 fitted with a 'purge' switch to extract at a rate of 350m ³ /hr. Dmev fans with a Specific Fan Power (SFP) < 0.7 watts per I/s
Section 9	Heat pumps			
9.1	Scope of the guidance			
9.2	Key terms			
9.3	Warm water and hot water heat pumps	N/A		
	panpo			
Section 10	Comfort cooling			
10.1	Scope of the guidance			
10.2	Air-cooled and water-cooled air	N/A		
	conditioners			
Section 11	Solar water heating			
11.1	Scope of the guidance			
11.2	Indirect systems	N/A		
Section 12	Lighting			
	12.1 Scope of the guidance			
12.2 Key terms				
12.3 Interna	I and External lighting	Architect	Specification on Drawings	Minimum 100% LE internal lighting (with a power requirement greater than 5 circuit-watts) included with minimum luminous efficiency of 45 lumens/circuit watts and a total output greater than 400 lamp lumens.
				External manually switched lights limited to 100 lamp-watts per fitting controlled by movement detection and photocells
Section 13	Micro-combined heat and power			
13.1	Scope of the guidance			
13.2	Key terms			

13.3	Micro-CHP systems	N/A		
Section 14	Heating systems circulators			
14.1	Scope of the guidance			
14.2	Circulators	Architect	Specification on drawings	New circulating pumps to have an Energy
				Efficiency Index (EEI) no greater than 0.23