



House Type Approval Certificate

Certificate No: Date: STAS/18/015/DM57/06/AMND03

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01 F

01 February 2019

A Certificate Holder: Springfield Properties, Springfield House, 3 Central Park Avenue, Larbert, FK5 4RX E-mail: craig.veldon@springfield.co.uk Tel: 01324 555536

В	House Type Titles:
	Description:

Arden – 4B 1224DT detached two storey house with integrated garage

C The domestic type approval has been assessed on the following drawings and specifications: See attached annexe to this certificate

Wind: (as defined in BS 6399-2)	Standard effective wind speed, Ve =	44.1 m/s
	For maximum effective height =	10.0m
	Has funnelling been considered?	NO
Wind: (as defined in CP3: Chapter V)	Design wind speed. Vs =	25.5 m/s
	(relevant to the building frame, at a height of 3m or less)	25.5 11/5
		0.75 K / 0
Snow: (as defined in BS 6399-3)	Site snow load, So =	0.75 Kn/m2
	Influenced by adjacent buildings?	NO
Resistance to moisture/durability of	Max exposure (to wind driven rain) grading, as defined in BRE	Zone 4
exposed elements:	Report – Thermal Insulation: Avoiding Risks, Second Edition, 1994,	
	to be exposure zone:	
	Exposure to sea spray (i.e. coastal region) or de-icing salts?	
	Other air contaminants or biological factors - please specify any	
	enhanced resistance if applicable (refer to BS7543 for guidance)	NO
Design Life: (per BS 7543 – Durability of	Category of building design life =	60 years
buildings and building elements, products		ou years
and components)	Design life of primary building envelope	60 years

E Conditions of certification:

 The design shown and the specifications and materials referred to have been assessed and approved in accordance with the Building (Scotland) Regulations 2004 and in accordance with the supporting guidance in the Domestic Technical Handbooks which came into force with effect from 1 July 2017.

2. The certificate shall be valid until invalidated by formal notice by the Local Authority Building Standards Scotland

3. The design shown and the materials specified shall not be changed without reference to the Local Authority Building Standards Scotland responsible for certifying the system.

Where reference is made on a plan or specification document to any Code of Practice, British or European Standard or manufacturer's instruction it shall be construed as a reference to such publication in the form in which it is in force at the date of this certificate.
This certificate should not be regarded as a formal approval under the building warrant process prescribed by the Building (Scotland) Act

2003 enacted from 1 May 2005

6. The Bill Henderson Consulting Engineer Ltd amended statement dated 26 October 2018 referenced here under Section G, confirm that a structural appraisal has been carried out. Further site-specific information MUST BE made available when a site-specific building warrant is sought. Such additional information should take cognisance of Procedural Guidance on Certification including information to be submitted with a Building Warrant Application dated April 2010 Version 2. Confirmation of a holistic approach to structural adequacy of the <u>entire</u> <u>completed building</u> shall be provided by a registered engineer to the local authority within whose area the site specific dwelling is to be built.





Annexe of drawings, certificates and specification documents used in the assessment:

1224dt(AS)013A Plot Work Layout, Gas & Arr Source Heat Pump Hybrid Heating 1224dt(AS)013A Plot Work Layout, Gas & Arr Source Heat Pump Hybrid Heating 1224dt(AS)011 Cround Floor Layout 1224dt(AS)012 First Floor Service Layout Cas & Air Source Heat Pump Hybrid Heating 1224dt(AS)014 First Floor Service Layout Cas & Air Source Heat Pump Hybrid Heating 1224dt(AS)014 Section A-A 1224dt(AS)014 Stair Section 1224dt(AS)015 Bay Window/Canopy Post Setting Out Ground Bearing & Suspended Stab 1224dt(AS)015 Bay Window/Canopy Post Setting Out Ground Bearing & Suspended Stab 1224dt(AS)010 Floor Joist Layout 1224dt(AS)010 Floor Joist Layout 1224dt(AS)010 Floor Joist Layout 1224dt(AS)010 Floor Shower Rom Layout 1224dt(AS)010 Floor Joist Layout 1224dt(AS)010 Floor Shower Rom Layout 1224dt(AS)010 Ground Floor Shower Rom Layout 1224dt(AS)010 Floor Shower Rom Layout 1224dt(AS)010	F	Drawing Number:	Description:
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			Vent Axia Arden 1224DT
Arden – 2017 – KEV 2 Front Cover		Arden – 2017 – REV 2	Front Cover





G	Certification:	
	BRE Global Ltd Certificate of Design (Section6	For all house types
	– Energy)	
	STAS/13/053/RD06/01	Registered detail certificate for ventilation system
	Amended Statement of structural adequacy	From Bill Henderson Consulting Engineer Ltd dated 26 October 2018
Н	Specification:	
	Springfield – 2019 Building Standards	For all house types
	Technical Specification Mainstream Housing –	
	Timber Frame	
	Hybrid Air Source Heat Pump & Gas Central	
	Heating, Date 01/01/2019	
	Stroma SAP ratings 2012	For all house types
	Section 6 Certificate of Design covering letter	Moda letter dated 17 December 2018
	Sustainability Bronze Level	Arden
BRE report Intermediate Floor sound test		
Sound test c/03/5L/0835/1 Intermediate Floor sound test report		Intermediate Floor sound test report
	Vent Axia Lo-carbon dMEV unit	Manufacturers information for ventilation system
	Bill Henderson Consulting Engineer Ltd Introduction	
Calculation Sheet 608(i)W1		
	Bill Henderson Consulting Engineer Ltd	Notes for Timber Kit manufacture
Calculation Sheet 608(ii)W2		
U-value calculation Floor – ARDEN 0.17		
	U-value calculation Floor – exposed floor over garage 0.14	
	U-value calculation	Rendered External Wall 0.21
	U-value calculation Timber Clad External Wall 0.21	
U-value calculation Wall – garage wall – 145mm insulation 0.2 U-value calculation Roof - main roof – 300mm insulation 0.15 U-value calculation Roof – slope roof – 150 + 30mm insulation 0.14		Wall – garage wall – 145mm insulation 0.2
		Roof - main roof – 300mm insulation 0.15
	U-value calculation	Wall – dwarf walls 150mm insulation 0.24
	Robust Wall specification	Bill Henderson Consulting Engineer Ltd – letter and fixing specification dated 7 March 2017

Authority:

This system type approval certificate consisting of 3 pages is authorised by:

Signature:

Qa

Lead Authority Building standards Manager on behalf of the Local Authority Building Standards Scotland (LABSS)

Appendix A

Regulation 9 Provisions on which dispensation is given	Decision	STAS Condition
Technical Standard 3.12 Sanitary facilities (Domestic) Every building must be designed and constructed in such a way that sanitary facilities are provided for all occupants of, and visitors to, the building in a form that allows convenience of use and that there is no threat to the health and safety of occupants or visitors. Guidance Clause 3.12.3 of the Technical Handbook for dwellings identifies that walls adjacent to any sanitary facility are of robust construction that will permit secure fixing of grab rails or other aids in the zones noted in figure 3.32	Robust walls to structural engineers specification (Bill Henderson Consulting Engineer Ltd letter and fixing specification dated 7 March 2017)	Walls adjacent to any sanitary facility shall be constructed to Bill Henderson Consulting Engineer Ltd letter and fixing specification dated 7 March 2017)