

### Local Authority Building Standards Scotland [LABSS]



formerly the Scottish Association of Building Standards Managers [SABSM]

# House Type Approval Certificate

Certificate No: STAS/18/015/DM57/07/AMND03

Date: 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

B House Type Titles:

Description: Crail – 4B 1436DT detached two storey house with integrated garage

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 = For maximum effective height = Has funnelling been considered?	44.1 m/s 10.0m NO
Wind: (as defined in CP3: Chapter V)	Design wind speed, Vs = (relevant to the building frame, at a height of 3m or less)	25.5 m/s
Snow: (as defined in BS 6399-3)	Site snow load, So = Influenced by adjacent buildings?	0.75 Kn/m2 NO
Resistance to moisture/durability of exposed elements:	Max exposure (to wind driven rain) grading, as defined in BRE 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)	Zone 4 NO
Design Life: (per BS 7543 – Durability of buildings and building elements, products and components)	Category of building design life =  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.
- 4. 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.
- 5. 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
- 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 entire completed building 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:

F	Drawing Number:	Description:	
	1432dt(AS)001 A	Schedules	



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	1432dt(AS)103 A	Plot Works Layout, Gas & Air Source Heat Pump Hybrid Heating
	1432dt(AS)205 A	Drainage Isometric
	1432dt(AS)301 K	Ground Floor Layout
	1432dt(AS)302 H	First Floor Layout
	1432dt(AS)324 S	Ground Floor Services Layout, Gas & Air Source Heat Pump Hybrid Heating
	1432dt(AS)305 L	First Floor Services Layout
	1432dt(AS)421 H	Elevations – Standard Arrangement, Gas & Air Source Heat Pump Hybrid Heating
	1432dt(AS)501 A	Section A-A
	1432dt(AS)501 A 1432dt(AS)502 B	
	1432dt(AS)503 A	Section B-B Section C-C
	1432dt(AS)504 B	Stair Section
	1432dt(AS)505 A	Stair Layouts
	1432dt(AS)601 C	Floor Joist Layout
		Roof Layout
	1432dt(AS)602 A 1432dt(AS)701 A	Cloak Room Layout
	1432dt(AS)701 A	Ground Floor Shower Room Layout
	J10206_Crail	Finnjoist (FJI) Kerto LVL
	Q17388AI	Roof Truss Layout Structural Notes Timber Frame Construction
	608 S1 W1 608 S2 W3	Timber Frame Typical Details Ground Bearing Floor Slab
	608 S5 W1	Timber Frame Typical Details Ground Bearing Floor Slab  Timber Frame Typical Details Suspended Slab
	DET(TK)03-01 B	Ground Floor Detail with Suspended Slab, Polished Finish
	DET(TK)03-02 A	Ground Floor Detail with Ground Bearing Slab, Polished Finish
	DET(TK)03-07 B	Dwarf Wall Detail with Suspended Slab, Polished Finish
	DET(TK)04-02 B	External Wall, Internal & External Corner Detail
	DET(TK)04-06 -	External Wall to Party Wall Detail
	DET(TK)05-01 C	Typical Cavity Barrier Positions
	DET(TK)08-01 B	Mid Floor Detail at External Wall, Parallel Joists
	DET(TK)08-02 B	Mid Floor Detail at External Wall, Perpendicular Joists
	DET(TK)08-03 B	Mid Floor Detail at External Wall, Parallel Joists
	DET(TK)11-07 B	40 degrees Eaves Detail at First Floor Wall Head
	DET(TK)11-08 B	40 degrees Eaves Detail at First Floor Window Head
	DET(TK)11-12 B	Verge Detail Window Cill Detail – Ground Floor, Render
	DET(TK)14-01 B	
	DET(TK)14-02 B DET(TK)14-05 A	Window Cill Detail – First Floor, Render Window Jamb Detail – Render
		Window Head Detail – Render Window Head Detail – Ground Floor, Render
	DET(TK)14-07 B	Window Head Detail – Ground Floor, Render  Window Head Detail – First Floor, Render
	DET(TK)14-08 B DET(TK)15-01 A	External Door Detail Level Access Threshold Polished Slab Finish
		External Door Detail Stepped Access Threshold Polished Slab Finish
	DET(TK)30.04	
	DET(TK)29-01	Timber Kit Hold Down strap Detail
	DET(TK)29-02	Typical Roof Fixing Details Page 1
	DET(TK)29-03 DET(TK)29-04	Typical Roof Fixing Details Page 2 Typical Roof Fixing Details Page 3
		Typical Roof Fixing Details Page 3  Typical Roof Fixing Details Page 4
	DET(TK)29-05 CAS 8499 24	Vent Axia Crail 1432DT
	608 S(CRAI)25 Rev A	Structural overlay
	000 S(CRAI)23 Rev A	Structural Overlay
^	Cartifications	
G	Certification:	For all bound by an
	BRE Global Ltd Certificate of Design (Section6 –	For all house types
	Energy)	Devictor deletal coefficient for coefficient coefficient
	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
u .	Specifications	
Н	Specification: Springfield 2019 Building Standards Technical	For all house types
	Springfield – 2019 Building Standards Technical	For all house types
	Specification Mainstream Housing – Timber Frame	
	i i aiii C	
	Hybrid Air Source Heat Pump & Gas Central	
	Hybrid Air Source Heat Pump & Gas Central Heating, Date 01/01/2019	
	Hybrid Air Source Heat Pump & Gas Central Heating, Date 01/01/2019 Stroma SAP ratings 2012	For all house types



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Section 6 Certificate of Design covering letter	Moda letter dated 17 December 2018
Sustainability Bronze Level	Crail
BRE report	Intermediate Floor sound test
Sound test c/03/5L/0835/1	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 – CRAIL 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
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

ı	Authority:			
	This system type approval certificate consisting of 3 pages is authorised by:	Signature:	Dallie .	
	Lead Authority Building standards Manage 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)
Technical Standard 2.4 Cavities (Domestic)  Every building must be designed and constructed in such a way that in the event of an outbreak of fire within the building, the unseen spread of fire and smoke within concealed spaces in its structure and fabric is inhibited.  Guidance Clause 2.4.2 of the Technical Handbook for dwellings identifies that roofspace cavities should be divided by cavity barriers so that the maximum distance between cavity barriers is not more than 10m where the cavity has surfaces which are very high risk materials.	The roofspace will be provided with automatic smoke detection hard wired and interlinked to the main AFD system	In accordance with decision