



## House Type Approval Certificate

Certificate No: Date: STAS/18/015/DM50/06/AMD04

01 F

01 February 2019

## Certificate Holder:

Springfield Properties, Springfield House, 3 Central Park Avenue, Larbert, FK5 4RX

E-mail: craig.veldon@springfield.co.uk

Tel: 01324 555536

House Type Titles: Description:

Culbin – 4B 1932ct 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

D	Climatic conditions: The design may be built in areas where the climatic conditions are equal to or less than those detailed below:			
	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	
	<b>Wind:</b> (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	Zone 4	
		enhanced resistance if applicable (refer to BS7543 for guidance)	NO	
	<b>Design Life:</b> (per BS 7543 – Durability of buildings and building elements, products and	Category of building design life = Design life of primary building envelope	60 years 60 years	
	components)		00 yours	

## 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 inclusion of roof space smoke detection in lieu of roof space cavity barriers, while contrary to guidance, has been approved as an acceptable alternative approach see Appendix A attached to and forming part of this certificate.
- 3. The certificate shall be valid until invalidated by formal notice by the Local Authority Building Standards Scotland

4. 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.

- 5. 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.
- 6. 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

7. 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 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:

Drawing Number:	Description:
1932ct(AS)000	Cover sheet drawing list
1932ct (AS)000 T	Schedules for use with masonry feature material
1932ct (AS)101 T	Plot Works Layout
1932ct (AS)101 C	Foul Water Drainage Isometric
	General Floor General Arrangement
1932ct (AS)301 R	
1932ct (AS)302 M	First Floor General Arrangement
1932ct (AS)324 M	Ground Floor Services Layout, Gas & Air Source Heat Pump Hybrid Heating
1932ct (AS)306 T	First Floor Services Layout
1932ct (AS)401 U	Elevations – Standard Arrangement, Gas Central Heating
1932ct (AS)421 G	Elevations – Standard Arrangement, Gas & Air Source Heat Pump Hybrid Heating
1932ct (AS)501 B	Section A-A
1932ct (AS)502 C	Section B-B
1932ct(AS)503 D	Section C-C
1932ct(AS)504 C	Section D-D
1932ct (AS)505 B	Stair Plan and Sections
1932ct (AS)601 B	Floor Joist Layout
1932ct (AS)602 B	Roof Plan
1932ct (AS)701 J	Accessible Cloakroom Layout
J7999_Culbin240	Finnjoist (FJI) Kerto LVL
Q12593AB B	Roof Truss Layout and Truss Profiles
608 S1 W1	Structural Notes Timber Frame Construction
608 S2 W3	Timber Frame Typical Details Ground Bearing Floor Slab
608 S5 W1	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)03-16	Garage Floor Detail
DET(TK)04-01 B	Render on Lath Detail at Movement Joint to Masonry
DET(TK)04-02 B	External Wall, Internal & External Corner 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)09-01 C	Mid Floor Detail over Garage
DET(TK)11-01 B	Render on Lath Detail at Roof Abutment
DET(TK)11-02 B	Render on Lath Detail at Roof Eaves – Ground & First Floor Level
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
DET(TK)11-13 A	GRP Valley Detail
DET(TK)11-17 B	Coombed Ceiling Detail
DET(TK)12-01 A	Dormer Window, Typical Details
DET(TK)12-02 B	Dormer Window, Eaves/Roof Junction Detail.
DET(TK)14-01 B	Window Cill Detail – Ground Floor, Render
DET(TK)14-02 B	Window Cill Detail – First Floor, Render
DET(TK)14-05 A	Window Jamb Detail – Render
DET(TK)14-06 C	Window Jamb Detail – Cladding
DET(TK)14-07 B	Window Head Detail – Ground Floor, Render
DET(TK)14-08 B	Window Head Detail – First Floor, Render
DET(TK)14-10 B	Window Head Detail – First Floor, Cladding
DET(TK)15-01 A	External Door Detail Level Access Threshold Polished Slab Finish
DET(TK)15-02 A	External Door Detail Stepped Access Threshold Polished Slab Finish
DET(TK)29-01	Timber Kit Hold Down strap Detail
DET(TK)29-02	Typical Roof Fixing Details Page 1
DET(TK)29-03	Typical Roof Fixing Details Page 2
DET(TK)29-04	Typical Roof Fixing Details Page 3
DET(TK)29-05	Typical Roof Fixing Details Page 4





	CAS 8499_01 A	Vent Axia Culbin 1932CT			
	608 SK(CULB)20	Structural overlay			
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 Technical	For all house types			
	Specification Mainstream Housing – Timber				
	Frame				
	Hybrid Air Source Heat Pump & Gas Central	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	Culbin			
	Bronze Level				
	BRE report	Intermediate Floor sound test			
	Sound test c/03/5I/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 – CULBIN 0.16			
	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			
	Authority:				
	This system type approval certificate consisting of 3				
	pages is authorised by:	Signature:			
	Lead Authority Building standards Manager				

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
<ul> <li>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.     </li> <li>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     </li> </ul>	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)