



House Type **Approval Certificate**

Certificate No: Date:

STAS/18/015/DM57/02/AMND02 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:

Ardmore – 3B 950SD Semi-detached two storey house

- 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 |
| | 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 | Zone 4 |
| | | enhanced resistance if applicable (refer to BS7543 for guidance) | NO |
| | Design Life: (per BS 7543 – Durability of buildings and building | Category of building design life = | 60 years |
| | elements, products and components) | Design life of primary building envelope | 60 years |

Conditions of certification:

1. 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

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

This certificate should not be regarded as a formal approval under the building warrant process prescribed by the Building (Scotland) Act 5. 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 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:

| Drawing Number: | Description: | |
|-----------------------------|--|--|
| 950sd(AS)001 A | Schedules | |
| 950sd(AS)103 | Plot Works Layout, Gas & Air Source Heat Pump Hybrid Heating | |
| 950sd(AS)205 A | Drainage Isometric | |
| 950sd(AS)301 C | Ground Floor Layout | |
| 950sd(AS)302 C | First Floor Layout | |
| 950sd(AS)305 E | First Floor Services Layout | |
| 950sd(AS)324 B | Ground Floor Services Layout, Gas & Air Source Heat Pump Hybrid Heating | |
| 950sd(AS)401 D | Elevations – Standard Arrangement Gas Central Heating | |
| 950sd(AS)501 A | Section A-A | |
| 950sd(AS)502 A | Stair Section | |
| 950sd(AS)503 A | Stair Layouts | |
| 950sd(AS)601 F | Floor Joist Layout | |
| 950sd(AS)602 B | Roof Layout | |
| 950sd(AS)701 C | Cloak Room Layout | |
| 950sd(AS)702 D | Ground Floor Shower Room layout | |
| J10206_Ardmore | Finnjoist (FJI) Kerto LVL | |
| Q17388AF | Roof Truss Layout | |
| 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)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)06-01 B | Party Wall Ground Floor Detail with Suspended Slab, Polished Finish | |
| DET(TK)06-02 B | Party Wall Stepped, Ground Floor Detail With Suspended Slab, Polished Finish | |
| DET(TK)06-11 B | Party Wall Detail at Mid Floor, No Step | |
| DET(TK)06-12 B | Party Wall Detail at Mid Floor, with step | |
| DET(TK)06-21 B | Party Wall Detail at Ceiling, No step | |
| DET(TK)06-22 B | Party Wall Detail at Ceiling, with Step | |
| DET(TK)06-31 B | Party Wall Detail at Roof, No step | |
| DET(TK)06-32 B | Party Wall Detail at Roof, with Step | |
| DET(TK)06-41 A | 3D Detail of Party Wall to Roof | |
| 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 | |
| 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)14-03 A | Window Head Detail – Ground Floor, Render | |
| DET(TK)14-08 B | Window Head Detail – First Floor, Render | |
| DET(TK)15-01 A | External Door Detail Level Access Threshold Polished Slab Finish | |
| DET(TK)15-02 A | External Door Detail Level Access Threshold Polished Slab Finish | |
| DET(TK)29-01 | Timber Kit Hold Down strap Detail | |
| DET(TK)29-01 | Typical Roof Fixing Details Page 1 | |
| DET(TK)29-02 | Typical Roof Fixing Details Page 2 | |
| DET(TK)29-03 | Typical Roof Fixing Details Page 2 | |
| | | |
| | | |
| DET(TK)29-05 CAS 8499 21 | Typical Roof Fixing Details Page 4 Vent Axia Ardmore 950SD | |





| 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 | | | |
| | 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 | Ardmore | | |
| | Bronze Level | | | |
| | 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 Calculation | Introduction | | |
| | Sheet 608(i)W1 | | | |
| | Bill Henderson Consulting Engineer Ltd Calculation | Notes for Timber Kit manufacture | | |
| | Sheet 608(ii)W2 | | | |
| | U-value calculation | Floor – ARDMORE 0.16 | | |
| | U-value calculation | Floor – exposed flor 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 | | |

| I | Authority: | | | | |
|---|---|------------|---|--|--|
| | This system type approval certificate consisting of 3 pages is authorised by: | Signature: | Dallle | | |
| | | | Lead Authority Building standards Manager on behalf of the Local Authority Building Standards Scotland (LABSS) | | |

Appendix A **Regulation 9** Decision **STAS Condition** Provisions on which dispensation is given Technical Standard 3.12 Sanitary facilities (Domestic) Robust walls to structural Walls adjacent to any Every building must be designed and constructed in such a engineers specification (Bill sanitary facility shall be way that sanitary facilities are provided for all occupants of, Henderson Consulting constructed to Bill and visitors to, the building in a form that allows convenience Engineer Ltd letter and fixing Henderson Consulting of use and that there is no threat to the health and safety of specification dated 7 March Engineer Ltd letter and fixing specification dated 7 March 2017) occupants or visitors. 2017) 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