House Type Approval Certificate

Certificate No: **STAS/18/015/DM90/01**
Date: **5 March 2019**

A **Certificate Holder:**

Springfield Properties Springfield House 3 Central Park Avenue Larbert FK5 4RX
E-mail: **Jamie.Russell@springfield.co.uk** **Tel:** 01324 555 536

B **House Type Titles:**

Description:	**2017 Standards**	**CROY HOUSE TYPE**

C 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 m** **NO**
Wind: (as defined in CP3: Chapter V)	*Design wind speed, Vs* = (relevant to the building frame, at a height of 3m or less)	**25.5m/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)	**Exposure 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** **60 years**

E **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
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
6. Bill Henderson Consulting Engineer Ltd Statement of Structural Adequacy STAS/18/015/DM90 1 to 4 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:
	Croy 1060bw(AS)-001c	Data Sheet
	Croy 1060bw(AS)-103	Plot Layout
	Croy 1060bw(AS)-205	Drainage Isometric
	Croy 1060bw(AS)-301c	Ground Floor Plan
	Croy 1060bw(AS)-324h	Services Layout
	Croy 1060bw(AS)-421b	Elevations
	Croy 1060bw(AS)-501a	Section A-A
	Croy 1060bw(AS)-502a	Section B-B
	Croy 1060bw(AS)-601	Roof Plan
	Croy 1060bw(AS)-701a	Bathroom Layout
	DET(TK)03-02d	Ground Floor Detail with Ground Bearing Slab Polished Floor
	DET(TK)03-16a	Garage Floor Detail
	DET(TK)04-02c	Internal & External Corner
	DET(TK)04-03b	Internal & External Corner - Timber Cladding
	DET(TK)04-04b	Timber Cladding Detail at Vertical Junction to Masonry
	DET(TK)04-05b	Timber Cladding Detail at Horizontal Junction to Masonry
	DET(TK)04-06b	External Wall to Party Wall Detail
	DET(TK)05-01e	Cavity Barrier Positions
	DET(TK)06-21d	Party Wall Detail at Ceiling - No Step
	DET(TK)06-31e	Party Wall Detail at Roof - No Step
	DET(TK)06-36a	Party Wall GF Detail with Ground Bearing Slab Polished Floor
	DET(TK)06-41d	3D Party Wall Fireproofing Detail
	DET(TK)07-03a	Internal Partition Make Up
	DET(TK)11-07d	40deg Eaves Detail at Wall Head
	DET(TK)11-08d	40deg Eaves Detail at Window Head
	DET(TK)11-12c	Verge Detail
	DET(TK)11-13b	Valley Detail
	DET(TK)11-19	3D Eaves Detail
	DET(TK)11-25	Concrete Ridge with Concrete Roof Tile Detail
	DET(TK)14-01c	Window Cill Detail - Render
	DET(TK)14-03c	Window Cill Detail - Cladding
	DET(TK)14-05b	Window Jamb Detail - Render
	DET(TK)14-06f	Window Jamb Detail - Cladding
	DET(TK)14-07c	Window Head Detail - Ground Floor, Render
	DET(TK)14-08c	Window Head Detail - Top Floor, Render
	DET(TK)14-09f	Window Head Detail - Ground Floor, Cladding
	DET(TK)14-10d	Window Head Detail - Top Floor, Cladding
	DET(TK)15-05b	Garage Door Threshold Detail
	DET(TK)15-06a	External Door Stepped Threshold Detail - Ground Bearing Slab
	DET(TK)15-07a	External Door Level Threshold Detail - Ground Bearing Slab
	DET(TK)15-11	Garage Door Detail
	DET(TK)19-01b	Boiler Flue Detail
	DET(TK)21-01b	Electrical Legend & Installation Guide
	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
	Structural Engineers Drawings	
	608 S CROY 25	Overmarked Floor Plan
	Certificate of Design (Building Structures)	Certificate Number 284797
	SPRSTAS S1	Structural Notes
	SPRSTAS S2	Structural Details
	STAS pages Oct2018	Structural Information
	Vent-Axia Design Drawings	
	CAS 10408 39 - Croy 1060bw (As)	Vent-Axia Layout
	Registered Detail	STAS/13/053/RD06/01
	Roof Truss Drawings	
	Q18802FQ Croy Truss Layout & Profiles AS	

G	**Certification**	
	Statement of Structural Adequacy	Bill Henderson Consulting Engineer Ltd SSA STAS 18015 DM90 1 to 4
	Certificate of Design (Section 6 – Energy)	BRE-S6-1-03023
	TER/DER SAP Version 1.0.4.10 Compliance Report	Croy House Type Compliance Report
	External Wall u-value Calculation	2015 Regs External Hybrid Only
	Sustainability Certificate	Croy Sustainability Label
	Garage/House wall U-value	2015 Regs Garage-House Wall
	Ceiling U-value	2015 Regs Level Ceiling Rev A
	Floor U-value	CROY 0.18
	Sound	Charlie Fleming Associates Letter dated 7 December 2014 Ref 2464#01#L

H	**Specification**	
	Springfield	2017 Technical Specification – Mainstream Housing - Timber Frame- Bungalows – Hybrid Air Source Heat Pump & Gas Central Heating - Dated 22 August 2018

I	**Authority:**	
	This system type approval certificate consisting of 3 pages is authorised by:	**Perth and Kinross Council**
		on behalf of the Local Authority Building Standards Scotland (LABSS)