

## House Type Approval Certificate

Certificate No: **STAS/18/043/DM92/01**

Date: **4 July 2019**

<b>A</b>	<b>Certificate Holder:</b>	
	Bellway Homes Limited, Bothwell House, Hamilton Business Park, Caird Street, Hamilton, M13 0QA	
	E-mail: <a href="mailto:Brian.McComish@bellway.co.uk">Brian.McComish@bellway.co.uk</a>	Tel: <b>01698 477440</b>

<b>B</b>	<b>House Type Titles:</b>	
	Description:	<b>Colwood – 3 bedroom detached dwelling (2018)</b>

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

<b>D</b>	<b>Climatic conditions:</b> The design may be built in areas where the climatic conditions are equal to or less than those detailed below:		
	<b>Wind:</b> (as defined in BS 6399-2)	<i>Standard effective wind speed, <math>V_e</math> =</i> For maximum effective height = Has funnelling been considered?	<b>24m/s</b> <b>8m</b> <b>NO</b>
	<b>Wind:</b> (as defined in CP3: Chapter V)	<i>Design wind speed, <math>V_s</math> =</i> (relevant to the building frame, at a height of 3m or less)	<b>N/A</b>
	<b>Snow:</b> (as defined in BS 6399-3)	<i>Site snow load, <math>S_o</math> =</i> Influenced by adjacent buildings?	<b>0.75 Kn/m2</b> <b>NO</b>
	<b>Resistance to moisture/durability of exposed elements:</b>	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)	<b>Exposure Zone 4</b>  <b>NO</b>
	<b>Design Life:</b> (per BS 7543 – Durability of buildings and building elements, products and components)	Category of building design life =  Design life of primary building envelope	<b>Unlimited</b>  <b>Unlimited</b>

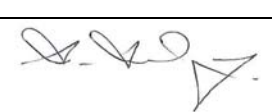
<b>E</b>	<b>Conditions of certification:</b>	
	<ol style="list-style-type: none"> <li>The design shown and the specifications and materials referred to have been assessed and approved in accordance with the Building (Scotland) Regulations 2004 and in accordance with the supporting guidance in the Domestic Technical Handbooks which came into force with effect from 1 July 2017.</li> <li>The certificate shall be valid until invalidated by formal notice by the Local Authority Building Standards Scotland</li> <li>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.</li> <li>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.</li> <li>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</li> <li>The Dougall Baille Associates statement dated 16/05/2019 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 (2017). 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.</li> <li>This certificate confirms compliance with mandatory standard 6.1. However, this is based on a notional 'worst case' criteria with regards to orientation, shading, sheltering and resultant PV array efficiency. Site specific information will be required to confirm the actual DER for the STAS approved house type on each plot on a particular site.</li> </ol>	

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

F	Drawing Number:	Description:
	COLWOOD (2015)(EN) T-KIT-001 rev E	General arrangement
	17_250	Line loads (for reference only)
	17_251	Strip foundation layout (for reference only)
	17_252	Vibro foundation layout (for reference only)
	17_253	Piled foundation layout and details (for reference only)
	17_254	Floor slab layout (for information only)
	17_255	Elevations (structural)
	17_256	Roof truss layout
	17/221-001 rev A	Heating installation ground floor
	17/221-002 rev A	Heating installation first floor
	17/221-003	Hot and cold water ground floor
	17/221-004	Hot and cold water first floor
	TFb346/001 rev A	Timber frame layouts
	TF AA(1)	Substructure details (latest version on LABSS website)
	TF AA(2)	Superstructure details (latest version on LABSS website)
	TF AA(3)	Component details (latest version on LABSS website)
	TF AA(5)	Services details (latest version on LABSS website)
	TF AA(9)	External works details (latest version on LABSS website)
	Door/Int/01 rev E	Internal door schedule
	10 001.3c	Clearline Fusion – PV16 integrated pitched roof flashing detail
	10 001.4	Clearline Fusion – PV16 integrated pitched roof flashing detail landscape
	10.011c	Clearline Fusion – PV16 integrated pitched roof array dimensions
	10.011d	Clearline Fusion – PV16 landscape - integrated pitched roof array dimensions

G	Certification:	
	Statement of structural adequacy	Dougall Baillie Associates 16/05/2019

H	Specification:	
	Technical specification, timber frame construction – rev C	Specification
	Supplementary specification	
	SAP ratings	NHER compliance report 20/09/2018
	U value calculations	

I	Authority:		
	This system type approval certificate consisting of 2 pages is authorised by:	Signature:	
			Lead Authority Building standards Manager on behalf of the Local Authority Building Standards Scotland (LABSS)