

## House Type Approval Certificate

Certificate No: **STAS/15/056/DM52/03**

Date: **4 December 2015**

<b>A</b>	<b>Certificate Holder:</b>	
	Barratt Homes North Scotland, Blairton House, Old Aberdeen Road, Balmedie, Aberdeenshire, AB23 8SH E-mail: <a href="mailto:barry.mitchell@barratthomes.co.uk">barry.mitchell@barratthomes.co.uk</a> Tel: 01358 741363	

<b>B</b>	<b>House Type Titles:</b>	
	Description:	<b>FORVERAN FT GROUND FLOOR 2012 S Range</b>

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

<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)	Standard effective wind speed, $V_e$ = For maximum effective height = Has funnelling been considered?	<b>41.4 m/s</b> <b>8.5 m</b> <b>NO</b>
	<b>Wind:</b> (as defined in CP3: Chapter V)	Design wind speed, $V_s$ = (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)	Site snow load, $S_o$ = Influenced by adjacent buildings?	<b>0.64 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 Zones 1, 2, 3 and 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>60 years</b>  <b>60 years</b>


<b>E</b>	<b>Conditions of certification:</b>	
	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 October 2013.
	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.	The Fairhurst letter dated 21 September 2015 reference 100982-STAS.ltr42-Forveran.js 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:**

<b>F</b>	<b>Drawing Number:</b>	<b>Description:</b>
	2012/S/FOV/01/A	Planning
	2012/S/FOV/02/D	Ground Floor Plan
	2012/S/FOV/03/C	First Floor Plan
	2012/S/FOV/04/A	Elevations
	2012/S/FOV/05/A	Foundation Plan
	2012/S/FOV/06/X	Joist Plan
	2012/S/FOV/07/X	Roof Plan
	2012/S/FOV/08/X	Section A-A
	2012/S/FOV/09/X	Section B-B
	2012/S/FOV/RV1	Revision Index
<b>Structural Engineers Drawings</b>		
	100982-3028B	Foundation Layout
	100982-4028A	Lintel and Movement Joint Elevations – Detached
	100982-4228A	Lintel and Movement Joint Elevations – Semi-Detached
	100982-4614X	Timber Kit Appraisal

<b>G</b>	<b>Certification</b>	
	Statement of Structural Adequacy	Fairhurst letter dated 21 September 2015 reference 100982-STAS.Itr42 - Forveran.js
	U-value Calculation	Barratt Roof – Report dated 27 March 2012 – 1 page Report
		Barratt External Wall - Report dated 9 September 2015 – 1 page Report
		Barratt Forveran Slab on Ground Floor - Report dated 9 September 2015 – 1 page Report
	DER 2009 Worksheet	Forveran Ground Floor - Assessor 8897 – Report dated 9 September 2015 – 4 No. 5 page Reports – Ground Floor Flats
	Section 6: Regulations Compliance Report	Forveran Ground Floor - Assessor 8897 – Report dated 9 September 2015 – 4No. 2 page Reports – Ground Floor Flats

<b>H</b>	<b>Specification</b>	
	Barratt Developments PLC	Specification for Scotland – Caledonia & Alba Range – 2013 Standards - Detached and Attached Two & Three Storey Timber Frame Houses – David Wilson Homes – 23 page Document dated 11 October 2013 Reference Revision G

<b>I</b>	<b>Authority:</b>		
	This system type approval certificate consisting of 2 pages is authorised by:	Signature:	
			<b>Robert A Renton, Secretary to STAS</b> on behalf of the Local Authority Building Standards Scotland (LABSS)