

## House Type Approval Certificate

Certificate No: **STAS/14/056/DM46/11**  
Date: **1 August 2014**

|          |  |
|----------|--|
| <b>A</b> | <b>Certificate Holder:</b>   |
|          | <b>Barratt Homes North Scotland, Blairton House, Old Aberdeen Road, Balmedie, Aberdeenshire, AB23 8SH</b><br>E-mail: david.beverley@barratthomes.co.uk Tel: 01358 741363 |

|          |   |
|----------|---|
| <b>B</b> | <b>House Type Titles:</b>   |
|          | Description: <b>2012/S/FOR/01 FORBES House Types Reference:</b><br>BFRB TFET AA01 (END TERRACE)<br>BFRB TFMT AA01 (MID TERRACE)<br>BFRB TFSD AA01 (SEMI)<br>BFR2 OS2E (END TERRACE)<br>BFR2 OS2M (MID TERRACE)<br>BFR2 TFSD AA01 (SEMI) |

|          |  |
|----------|--|
| <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, $V_e$ =<br>For maximum effective height =<br>Has funnelling been considered?   | <b>41.4 m/s</b><br><b>8.5 m</b><br><b>NO</b>         |
|          | <b>Wind:</b> (as defined in CP3: Chapter V)  | Design wind speed, $V_s$ =<br>(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, $S_o$ =<br>Influenced by adjacent buildings?  | <b>0.64 Kn/m2</b><br><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:<br>Exposure to sea spray (i.e. coastal region) or de-icing salts?<br>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><br><br><b>No</b> |
|          | <b>Design Life:</b> (per BS 7543 – Durability of buildings and building elements, products and components)                                 | Category of building design life =<br><br>Design life of primary building envelope  | <b>60 years</b><br><br><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 8 May 2014 reference 100982-STAS.Itr01-Forbes.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 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:**

| <b>F</b>                             | <b>Drawing Number:</b> | <b>Description:</b>           |
|--------------------------------------|------------------------|-------------------------------|
|                                      | 2012/S/FOR/01B         | Planning Detached             |
|                                      | 2012/S/FOR/02E         | Elevations Detached           |
|                                      | 2012/S/FOR/03F         | Ground Floor Plan             |
|                                      | 2012/S/FOR/04E         | First Floor Plan              |
|                                      | 2012/S/FOR/05E         | First Floor Plan Option       |
|                                      | 2012/S/FOR/06E         | Foundation Plan               |
|                                      | 2012/S/FOR/07C         | Joist Plan                    |
|                                      | 2012/S/FOR/08B         | Roof Plan                     |
|                                      | 2012/S/FOR/09A         | Section A-A                   |
|                                      | 2012/S/FOR/10B         | Kitchen Plan                  |
|                                      | 2012/S/FOR/11X         | Bedroom 3 Activity Spaces     |
|                                      | 2012/S/FOR/12X         | Future Shower Room            |
|                                      | 2012/S/FOR/RV1         | Revision Index                |
| <b>Structural Engineers Drawings</b> |                        |                               |
|                                      | 100982-3019B           | Foundation Detached           |
|                                      | 100982-3148X           | Foundation Semi Detached      |
|                                      | 100982-3149X           | Foundation End Terrace        |
|                                      | 100982-3150X           | Foundation End Terrace Handed |
|                                      | 100982-3151X           | Foundation Mid Terrace        |
|                                      | 100982-3152X           | Foundation Mid Terrace Handed |
|                                      | 100982-4019B           | Lintel Layout Elevations      |
|                                      | 100982-4219A           | Movement Joint Elevations     |
|                                      | 100982-4419A           | Timber Kit Appraisal          |

| <b>G</b> | <b>Certification</b>                                   |  |
|----------|--|--|
|          | Statement of Structural Adequacy<br>DER 2009 Worksheet | Fairhurst letter dated 8 May 2014 reference 100982-STAS.Itr01-Forbes<br>Forbes Semi,<br>Assessor 3539 – Report dated 16 May 2013 – 5 page Draft Report |
|          | SAP 2009 Worksheet                                     | Forbes Semi,<br>Assessor 3539 – Report dated 16 May 2013 – 6 page Draft Report   |
|          | SAP Data Input Report                                  | Forbes Semi,<br>Assessor 3539 – Report dated 16 May 2013 – 4 page Draft Report   |
|          | Section 6: Regulations Compliance<br>Report            | Forbes Semi,<br>Assessor 3539 – Report dated 16 May 2013 – 2 page Draft Report   |

|          |                          |  |
|----------|--------------------------|--|
| <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 |
|          | Barratt Developments PLC | Addendum to Standard Specification – 8 page Document dated 7 April 2014 reference DBev   |

|          |   |            |  |
|----------|---|------------|--|
| <b>I</b> | <b>Authority:</b>   |            |  |
|          | This system type approval certificate consisting of 3 pages is authorised by: | Signature: | <i><b>Robert A Renton, Secretary to STAS</b></i><br>on behalf of the Local Authority Building Standards Scotland (LABSS) |

Approved 1 August 2014