

## House Type Approval Certificate

Certificate No: **STAS/13/052/DM39/18**

Date: **25 July 2014**

|          |   |
|----------|---|
| <b>A</b> | <b>Certificate Holder:</b>  |
|          | <b>CALA Homes Ltd, Johnstone House, 52-54 Rose Street, Aberdeen, AB10 1HA</b><br>E-mail: pmcculloch@cala.co.uk <span style="float: right;">Tel: 01324 600000</span> |

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| <b>B</b> | <b>House Type Titles:</b>    |
|          | Description: <b>Dewar FE</b> |

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

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| <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>49.2 m/s</b><br><b>9m to ridge</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>0.65 Kn/m<sup>2</sup></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 &amp; 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>Category 4</b><br><br><b>60 Years</b>  |  |

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| <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 Harley Haddow Consulting Engineers Statement of Structural Adequacy referenced here under Section H, confirm that a structural appraisal has been carried out. It confirms that 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:**

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|---|--|---|
| <b>F</b>                                      | <b>CALA Plans:</b>   | <b>Description:</b>   |
|   | B195FE/WD1 Rev G   | General Arrangement Plans and Elevations - Ver FE   |
|   | B195FE/WD2 Rev G   | Sects. A-A, B-B, Truss Profiles & Mid Floor Trim - ver FE   |
|   | B195FE/WD2.1 Rev A   | Found. layouts - G/B Slab - Ver FE  |
|   | B195FE/WD2.2 Rev A   | Found. layouts - Susp. Slab - Ver FE  |
|   | B195SE,FE,IC/WD3 Rev D   | Kitchen & Utility Plans & Elevations - ALL Versions   |
|   | B195SE,FE/WD4 Rev C  | Bath, En-S's & Clks Plans & Elevs - SE & FE Versions ONLY   |
|   | B195SE,FE,IC/WD6 Rev A   | Stair Details - ALL Versions  |
|   | B195SE/WD9 Rev D   | Cavity Vents Configuration - Ver FE   |
|   | B195SE,FE,IC/WD10 Rev A  | Garage Door Details - ALL Versions  |
|   | B195SE,FE /WD10.1 Rev A  | D32 Juliet Balcony Details - Ver SE, FE   |
|   | B195SE,FE /WD10.2 Rev B  | W6 Dormer Details - Ver SE,FE   |
|   | B195SE,FE,IC/WD10.3 Rev B  | RinR Storey Rod & Eaves Detail - ALL Versions   |
|   | B195SE,FE,IC/WD11 Rev B  | Stone Components Schedule - ALL Versions  |
|   | B195SE,FE,IC/WD12 Rev D  | Window and Door Styles - ALL Versions   |
|   |  |   |
|   | <b>MARLEY Drainage Plans:</b>  |   |
|   | CALA196A-1   | Internal Drainage   |
|   | CALA196B-2 Rev 2   | External Drainage - Ver FE  |
|   |  |   |
|   | <b>MYSON Service Plans:</b>  |   |
|   | 16420-18 sheets 1, 2, 3, 5, 6, 8, 9  | B195 Dewar Design   |
|   |  |   |
| <b>HARLEY HADDOW Engineers Plans:</b>         |  |   |
| 2008204-B195FE/01                             | U/B&G/bear Slab & Details - Ver FE   |   |
| 2008204-B195FE/02                             | U/B& Susp. Slab & Details - Ver FE   |   |
| 2008204-B195FE/03                             | G&F Floor Layouts & Schedules - Ver FE   |   |
| 2008204-B195FE/04                             | Roof Layout & Details - Ver FE   |   |
| 2008204-B195FE/05                             | Timber Frame Construction Details  |   |
|   |  |   |
| <b>VENT-AXIA Mechanical Ventilation Plan:</b> |  |   |
| CAS 8132_12 Sheet No 1                        | dMEV System  |   |
|   |  |   |
| <b>G</b>                                      | <b>Certification</b>   |   |
|   | Statement of Structural Adequacy – Job No. 2008 204                              | Harley Haddow Consulting Engineers dated  |
| <b>H</b>                                      | <b>Specification</b>   |   |
|   | Development Specification (2013 Regs) Version BX3 (Nov 2013) dated 23 March 2014 |   |
|   | Model B Standard Details BX3 Spec 10/2013, issue Jan 2014                        |   |
|   | Construction and U-value Calculations “spec BX3”, issue Oct 2013                 |   |
|   | Elmhurst Energy Systems – Building Regulation Compliance, Full                   |   |
|   | SAP Calculation Printout, U-value calculator report, Summary Information         |   |
| <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><br>on behalf of the Local Authority Building Standards Scotland (LABSS) |