

## House Type Approval Certificate

Certificate No: **STAS/10/001/DM30/08**

Date: **26 April 2011**

### A Certificate Holder:

Name: **REDROW HOMES**  
Address: **REDROW HOUSE ST DAVID'S PARK FLINTSHIRE CH53RX**  
E-mail: **gary.markham@redrow.co.uk** **01244 520044**

### B House Type Titles:

Description: **Redrow Standard House Type** | **Kelso**

### C The system type 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:

**Important Exclusion Note: All structural elements are excluded from this STAS Type Approval Certificate. Such matters are dealt with through the site specific building warrant application – see Condition 7 under Section E 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>24 m/s</b> <b>9.5 m</b> <b>Yes</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>m/s</b>
<b>Snow:</b> (as defined in BS 6399-3)	<i>Site snow load, <math>S_o</math> =</i> Influenced by adjacent buildings?	<b>1.0 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 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>50 years</b>  <b>50 years</b>

### E Conditions of certification:

- 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 May 2009.  
NOTE: This assessment and approval DOES NOT take cognisance of the Domestic Technical Handbooks which came into force with effect from 1 October 2010.
- The certificate shall be valid until invalidated by formal notice by the Scottish Association of Building Standards Managers
- This approval is issued on the basis that the layout of principal living level shall permit the formation of an accessible shower room at a future date either in a separate, enclosed space of a size, either alone or by incorporation with the accessible toilet, as is specified under clause 3.12.3 to Standard 3.12. Such future accessible shower room shall not compromise "other floor area needs and manoeuvrability needs" within the apartment or the dwelling.
- The design shown and the materials specified shall not be changed without reference to the Scottish Association of Building Standards Managers responsible for certifying the system.
- 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.
- 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
- The Bett Associates Calculations dated November 2010, referenced here under Section H, confirm that a structural appraisal has been carried out and 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 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:
	General Design Drawings and Specification	
1	Kelso SCTH138-1-000	Register
2	Kelso SCTH138-1-101 (A)	Indicative Drainage Layout
3	Kelso SCTH138-1-201 (A)	Structural Plan – Ground Floor
4	Kelso SCTH138-1-202 (B)	Structural Plan – First Floor
5	Kelso SCTH138-1-203	Structural Plan – Second Floor
6	Kelso SCTH138-1-301	Section A-A Brick
7	Kelso SCTH138-1-302	Section B-B Brick
8	Kelso SCTH138-1-303	Section C-C Brick
9	Kelso SCTH138-1-401	Elevations
10	Kelso SCTH138-1-501 (A)	Details – Staircase 1 of 3
11	Kelso SCTH138-1-502 (B)	Details – Staircase 2 of 3
12	Kelso SCTH138-1-503	Details – Staircase 3 of 3
13	Kelso SCTH138-1-601 (A)	Service Layout – Ground Floor
14	Kelso SCTH138-1-602 (A)	Service Layout – First Floor
15	Kelso SCTH138-1-603	Service Layout – Second Floor
16	Kelso SCTH138-1-640	Central Heating – Ground Floor - End (Wavin)
17	Kelso SCTH138-1-641	Central Heating – First Floor- End (Wavin)
18	Kelso SCTH138-1-642	Central Heating – Second Floor - End (Wavin)
19	Kelso SCTH138-1-643	Hot & Cold Water – Ground Floor - End (Wavin)
20	Kelso SCTH138-1-644	Hot & Cold Water – First Floor - End (Wavin)
21	Kelso SCTH138-1-645	Hot & Cold Water – Second Floor - End (Wavin)
22	Kelso SCTH138-1-640	Central Heating – Ground Floor – Mid (Wavin)
23	Kelso SCTH138-1-641	Central Heating – First Floor – Mid (Wavin)
24	Kelso SCTH138-1-642	Central Heating – Second Floor – Mid (Wavin)
25	Kelso SCTH138-1-643	Hot & Cold Water – Ground Floor - Mid (Wavin)
26	Kelso SCTH138-1-644	Hot & Cold Water – First Floor - Mid (Wavin)
27	Kelso SCTH138-1-645	Hot & Cold Water – Second Floor - Mid (Wavin)
28	Kelso SCTH138 -1-650	Heating , Plumbing and Schedule – End (Myson)
29	Kelso SCTH138 -1-651	Heating , Layout Ground, First & Second Floor – End (Myson)
30	Kelso SCTH138 -1-652	Heating & Plumbing Layout – End (Myson)
31	Kelso SCTH138 -1-653	Heating & Plumbing Layout – End (Myson)
32	Kelso SCTH138 -1-650	Heating , Plumbing and Schedule – Mid (Myson)
33	Kelso SCTH138 -1-651	Heating , Layout Ground, First & Second Floor – Mid (Myson)
34	Kelso SCTH138 -1-652	Heating & Plumbing Layout – Mid (Myson)
35	Kelso SCTH138-1-653	Heating & Plumbing Layout – Mid (Myson)
36	Kelso SCTH138-1-701 (A)	Layout & Elevations – Cloaks1, Site Upgrade
37	Kelso SCTH138-1-702 (A)	Layout & Elevations – Cloaks 2, Site Upgrade
38	Kelso SCTH138-1-703 (A)	Layout & Elevations – Bathroom Site Upgrade
39	Kelso SCTH138-1-704 (A)	Layout & Elevations – Ensuite - Upgrade
40	Kelso SCTH138-1-750	Layouts – Kitchen
41	Kelso SCTH138-1-751 (A)	Layouts – Utility
42	Kelso SCTH138-1-801	Diamond Window Details
43	Kelso SCTH138-1-802	Square Bay Window Details
44	Kelso SCTH138-1-803	Balcony Details
45	Kelso SCTH138-1-804	Handrail Details
46	Kelso SCTH138-1-805	Louvred Privacy Screen Details
47	Kelso SCTH138-1-851	Activity Areas – Ground Floor
48	Kelso SCTH138-1-852	Activity Areas – First Floor
49	Kelso SCTH138-1-853 (A)	Activity Areas – Second Floor
G	Certification	

The Scottish Association of **BUILDING STANDARDS MANAGERS**  
Incorporating the Scottish Association of Chief Building Control Officers and representing  
Local Authority Building Standards in Scotland



H	Specification	
	01 – General Specification Sheet 1 of 2 dated 25/08/10 Rev C	Redrow Range Houses – C Series Scotland for Sites using 318 Timber Frame External Wall Construction
	01 – General Specification Sheet 2 of 2 dated 25/08/10 Rev C	Redrow Range Houses – C Series Scotland for Sites using 318 Timber Frame External Wall Construction
	Vent-Axia New SETH-Series House Types dated 18/08/10	Ventilation and Lo-Carbon Centra dMEV Fan schedule
	Redrow Scotland House Type Summary	House Type Schedule
	Bett Associates Calculations dated November 2010	Specialist Calculations and signed by RM Frimston
	BRE info on the Hepvo waste system	Certificate no. 042/97 third issue 07/08
	Redrow Insulation Schedule - The New Heritage Collection	Scotland Rev B

I	Authority:		
	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 Scottish Association of Building Standards Managers.