

## House Type Approval Certificate

Certificate No: **STAS/17/O56/DM77/11**  
Date: **12 December 2018**

<b>A</b>	<b>Certificate Holder:</b>	
	Barratt East Scotland Telford House, 3 New Mid Cutlins, EDINBURGH EH11 4DH E-mail: <a href="mailto:matthew.watson@barratthomes.co.uk">matthew.watson@barratthomes.co.uk</a> Tel: 0131 442 5700	

<b>B</b>	<b>House Type Titles:</b>	
	Description: <b>2017 Standards</b>	<b>GLENBERVIE H421R-S7 DETACHED UNIT</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>Yes/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>
	<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>Bayne Stevenson Associates Ltd structural calculations dated 11 July 2018 Revision F (421 Detached) 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.</li> </ol>

<b>F</b>	<b>Authority:</b>
	This system type approval certificate consisting of 3 pages is authorised by: <span style="float: right;">ANGUS COUNCIL as Lead Authority</span> <span style="float: right;">on behalf of the Local Authority Building Standards Scotland (LABSS)</span>

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

G	Certification	
	Structural Calculations	<ul style="list-style-type: none"> <li>• <a href="#">HOUSE TYPE H421R-S7.PDF</a></li> </ul>
	Section 6 2017	<ul style="list-style-type: none"> <li>• <a href="#">DER WORKSHEET SECTION 6 2017 - H421R-S7 GLENBERVIE (DETACHED EAST WEST).PDF</a></li> <li>• <a href="#">SCOTLAND SECTION 6 2017 - REG COMPLIANCE REPORT - H421R-S7 GLENBERVIE (D.PDF</a></li> <li>• <a href="#">TER WORKSHEET SECTION 6 2017 - H421R-S7 GLENBERVIE (DETACHED EAST WEST).PDF</a></li> </ul>

H	Specification	
	BARRATT SCOTLAND Specification Caledonia & Alba Range 2015 Technical Standards	2015 Spec Rev B 04/09/17 Detached & Attached Two & Three Storey Timber Frame Houses

I	Drawing Number:	Description:
	<p><b>Floor and Block Layouts</b></p> <ul style="list-style-type: none"> <li>• <a href="#">H421R-S7 DS03.PDF</a></li> <li>• <a href="#">17-H421-PLOT_BLOCK LAYOUTS AFU . PLOT LAYOUT -.PDF</a></li> </ul> <p><b>Stormking Details</b></p> <ul style="list-style-type: none"> <li>• <a href="#">BBA 06 - 435611.PDF</a></li> <li>• <a href="#">DWH T ALB17 H T365 RIS7 NEWMARCHAR GRP - STORMKING - TERRACE MID AFU -.PDF</a></li> <li>• <a href="#">RAWLPLUG FF1 FIXINGS.PDF</a></li> <li>• <a href="#">STORM KING ENTRANCE CANOPY FIXING DETAILS.PDF</a></li> <li>• <a href="#">STORMKING FIXING DETAILS.PDF</a></li> </ul> <p><b>External Wall Details</b></p> <ul style="list-style-type: none"> <li>• <a href="#">DB-SSD02-T601 PARTY EXTERNAL WALL EJ DETAIL.PDF</a></li> <li>• <a href="#">DB-SSD02-T602 EXTERNAL WALL CORNER JUNCTION.PDF</a></li> <li>• <a href="#">DB-SSD02-T603 EXTERNAL INTERNAL CORNER JUNCTION.PDF</a></li> <li>• <a href="#">DB-SSD02-T604 HOUSE GARAGE EXTERNAL WALL JUNCTION.PDF</a></li> <li>• <a href="#">DB-SSD02-T605 STAGGERED PARTY WALL JUNCTION SERVICE ZONE.PDF</a></li> <li>• <a href="#">DB-SSD02-T606 STAGGERED PARTY WALL JUNCTION NO SERVICE ZONE.PDF</a></li> <li>• <a href="#">DB-SSD02-T607 STEEL RACKING FRAME IN EXTERNAL WALL.PDF</a></li> <li>• <a href="#">DB-SSD02-T608 STEEL GONN-POST IN EXTERNAL WALL.PDF</a></li> <li>• <a href="#">DB-SSD02-T609B RENDER TIMBER INFILL PANEL.PDF</a></li> <li>• <a href="#">DB-SSD02-T610A RENDER TIMBER INFILL PANEL SHEET 2.PDF</a></li> </ul> <p><b>Floor Details</b></p> <ul style="list-style-type: none"> <li>• <a href="#">DB-SSD04-T601 SUSPENDED SLAB EXTERNAL WALL.PDF</a></li> <li>• <a href="#">DB-SSD04-T602 SUSPENDED SLAB PARTY WALL.PDF</a></li> <li>• <a href="#">DB-SSD04-T603A INTERNAL WALL GARAGE FLOOR.PDF</a></li> <li>• <a href="#">DB-SSD04-T604 EXTERNAL WALL GARAGE FLOOR.PDF</a></li> <li>• <a href="#">DB-SSD04-T605A INTERMEDIATE FLOOR EXTERNAL WALL.PDF</a></li> <li>• <a href="#">DB-SSD04-T606A INTERMEDIATE FLOOR PARTY WALL.PDF</a></li> <li>• <a href="#">DB-SSD04-T607 INTERMEDIATE FLOOR GARAGE WALL.PDF</a></li> <li>• <a href="#">DB-SSD04-T608 INTERMEDIATE FLOOR GARAGE HOUSE WALL.PDF</a></li> <li>• <a href="#">DB-SSD04-T609 SUSPENDED SLAB EXTERNAL WALL TEMP SHUTTERING.PDF</a></li> <li>• <a href="#">DB-SSD04-T610 SUSPENDED SLAB 675MM STEPPED PARTY WALL.PDF</a></li> <li>• <a href="#">DB-SSD04-T611 SUSPENDED SLAB 900MM STEPPED PARTY WALL.PDF</a></li> </ul>	

#### Roof Details

- [BH-SSD05-T601 WET VERGE DETAIL.PDF](#)
- [BH-SSD05-T602 DRY VERGE DETAIL.PDF](#)
- [BH-SSD05-T603 EAVES DETAIL 35 DEGREE.PDF](#)
- [BH-SSD05-T604 EAVES DETAIL 35 DEGREE WITH WINDOW.PDF](#)
- [DB-SSD05-T601 PARTY WALL COLD ROOF.PDF](#)
- [DB-SSD05-T602 PARTY WALL WARM ROOF.PDF](#)
- [DB-SSD05-T603 STEPPED PARTY WALL ROOF LEVEL.PDF](#)

#### Door Details

- [DB-SSD06-T601 IG FRONT DOOR THRESHOLD.PDF](#)
- [DB-SSD06-T602 DOOR JAMB DETAIL.PDF](#)
- [DB-SSD06-T603 DOOR HEAD DETAIL.PDF](#)
- [DB-SSD06-T604 INTEGRAL GARAGE DOOR THRESH.PDF](#)

#### Window Details

- [DB-SSD07-T601 WINDOW HEAD DETAIL.PDF](#)
- [DB-SSD07-T602 WINDOW CILL DETAIL.PDF](#)
- [DB-SSD07-T603 WINDOW DETAIL HORIZONTAL SECTION.PDF](#)
- [DB-SSD07-T604 FULL HEIGHT REAR BAY HEAD DETAIL.PDF](#)
- [DB-SSD07-T605 FULL HEIGHT REAR BAY JAMB DETAIL.PDF](#)

#### Services

- [DB-SSD09-T601 - GAS PIPE THROUGH GROUND FLOOR WALL.PDF](#)
- [DB-SSD09-T602 - GAS PIPE ENTRY AT GROUND FLOOR WALL.PDF](#)
- [DB-SSD09-T603 - VERTICAL GAS PIPE ENCLOSURE IN EXTERNAL WALL.PDF](#)
- [DB-SSD09-T604 - VERTICAL GAS PIPE RISER AT UPPER FLOORS.PDF](#)
- [DB-SSD09-T606 - BALANCED FLUE BOILER ON EXTERNAL WALL.PDF](#)
- [DB-SSD09-T607 - PARTY WALL SERVICES DETAIL.PDF](#)
- [DB-SSD09-T608 - PARTY WALL SERVICES DETAIL 1.PDF](#)
- [DB-SSD09-T609 - SEPERATING GARAGE WALL SERVICE DETAIL.PDF](#)
- [DB-SSD09-T610 - RECESSED GAS METER BOX DETAIL.PDF](#)
- [DB-SSD09-T611 - RECESSED GAS METER BOX DETAIL 1.PDF](#)
- [DB-SSD09-T612 - BT INSTALLATION SHEET 1.PDF](#)
- [DB-SSD09-T613 - BT INSTALLATION SHEET 2.PDF](#)
- [DB-SSD09-T614 - J/I JOIST SERVICE NOTCHINGS.PDF](#)

#### Sanitary

- [DB-SSD10-T601 - SANITARY ROBUST WALL CONSTRUCTION.PDF](#)
- [DB-SSD10-T602 - SHOWER TRAY INSTALLATION DETAIL SHEET 1.PDF](#)
- [DB-SSD10-T603 - SHOWER TRAY INSTALLATION DETAIL SHEET 2.PDF](#)