House Type Approval Certificate

Certificate No:	STAS/18/056/DM85/01
Date:	28 August 2018

A Certificate Holder:

Barratt West Scotland, 7 Buchanan gate, Cumbernauld Road, Stepps, Glasgow, G33 6FB

E-mail: martin.r@ema-architects.co.uk Tel: 0141 779 8325

B House Type Titles:

Description:	Dundonald – End terraced three storey house (including handed option)

C The domestic type approval 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:

Wind: (as defined in BS 6399-2)	*Standard* effective wind speed, Ve = For maximum effective height = Has funnelling been considered?	25.2 m/s 10.75m NO
Wind: (as defined in CP3: Chapter V)	*Design wind speed, Vs* = (relevant to the building frame, at a height of 3m or less)	M/S
Snow: (as defined in BS 6399-3)	*Site* snow load, So = Influenced by adjacent buildings?	0.5 Kn/m2 NO
Resistance to moisture/durability of exposed elements:	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)	Zone 1/ Zone 2/ Zone3/ Zone 4 NO
Design Life: (per BS 7543 – Durability of buildings and building elements, products and components)	Category of building design life = Design life of primary building envelope	60 years 60 years

E Conditions of certification:

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 July 2017.
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 Charles Scott & Partners Consulting Engineers Limited statement dated February 2018 referenced here under Section G, confirms 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 (2017). 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.
7. This certificate confirms compliance with mandatory standard 6.1. However, this is based on a notional 'worst case' criteria with regards to orientation, shading, sheltering and resultant PV array efficiency. Site specific information will be required to confirm the actual DER for the STAS approved house type on each plot on a particular site.

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

F	Drawing Number:	Description:
	2015-S-DUN-01	Overall layout
	2015-S-DUN-02	Elevations
	2015-S-DUN-03A	Ground floor
	2015-S-DUN-04	First floor
	2015-S-DUN-05A	Second floor
	2015-S-DUN-06	Under building
	2015-S-DUN-07a	Joist layout plan
	2015-S-DUN-08	Roof plan
	2015-S-DUN-09	Section A-A
	2015-S-DUN-10	Kitchen layout plan
	2015-S-DUN-11A	Future shower layout
	2015-S-DUN-DS2	Data sheet
	8184-DND-LEV-600A	Roof truss layout and section
	8184-DND-LEV-601A	Roof truss layout and section
	8184-DND-LEV-602A	Roof truss layout and section
	8184-DND-LEV-610A	Roof details
	14246-71	Heating installation – ground floor
	14246-72	Heating installation – first floor
	14246-73	Heating installation – second floor
	14246-74	Hot and cold water – ground floor
	14246-75	Hot and cold water – first floor
	14246-76	Hot and cold water – second floor
	PV array	Side Elevation (Kitchen)
	PV array	Side Elevation (Lounge)
	DUNDONALD RHWS 1ST-2ND 2550	Stair layout
	DUNDONALD RHWS G-1ST 2587	Stair layout
	119569/21 Rev B	Structural appraisal
	113404/DUN-VAR/001 Rev B	Structural appraisal – roof variation
	439381_A	Integrated kitchen layout
	ENV05862	Mechanical ventilation layout
	BDW-STAS-DETAIL-PACK	Standards details pack
	S088	Foundation , Ground Floor Slab & Sub-Structure Details (for reference)
	S089	Lintels and movement joints
	S090	Timber kit restraint details

G	Certification:	
	Statement of structural adequacy	Charles Scott and Partners February 2018
	Fireus	Fire rated ceiling fan closures - specification and test results
	Chiltern International Fire	JJI floor joist system – summary of fire assessment

H	Specification:	
	Environmental Economics	Section 6 specification
	Thermal Economics	Thermal Bridging values and technical report
	Charles Scott and Partners	Structural calculations
	Barratt Homes	Specification - 2015 Spec Rev A 26/06/17
	Environmental Economics	U-value calculations
	NHER	SAP calculations
	Extract from JJI technical manual	Fire and durability

I	Authority:		
	This system type approval certificate consisting of 2 pages is authorised by:	Signature:	
			Lead Authority Building standards Manager on behalf of the Local Authority Building Standards Scotland (LABSS)