Type Approval Certificate

Certificate No: **STAS/24/052/DM110/07/MODEL E**

Date: **28 April 2025**

A **Certificate Holder:**

CALA Homes Ltd
Adam House, 5 Mid New Cutlins, Edinburgh EH11 4DU
E-mail: SKelso@Cala.co.uk **Tel: 0131 453 0072**

B **Type Title:**

Description: **MODEL E - FLAT TYPE E - COMPARTMENTALISED**

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?	**24.5 m/s** **16m to ridge** **No**
Wind: (as defined in CP3: Chapter V)	*Design wind speed, Vs* = (relevant to the building frame, at a height of 3m or less)	**24.5m/s**
Snow: (as defined in BS 6399-3)	*Site* snow load, So = Influenced by adjacent buildings?	**0.75 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)	**Exposure Zones 1, 2, 3 and 4** **No** **None**
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 January 2025**.
2. The certificate shall be valid until invalidated by formal notice by the Scottish Building Standards Hub.
3. The design shown and the materials specified shall not be changed without reference to the Scottish Building Standards Hub who are 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 (Edinburgh) Limited Statement of Structural Adequacy referenced here under Section G, confirm that a structural appraisal has been carried out. It is a requirement of this certificate that 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 (January 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. Note, this national registration does not cover compliance with Mandatory Standard 2.15. Information to demonstrate compliance within this standard will be submitted by CALA to the verifier for each site specific building warrant application.
8. This certificate confirms compliance with Mandatory Standard 3.28. This is based on actual 'worst case' criteria outlined within CIBSE TM59 'Design methodology for the assessment of overheating risk in homes' (2017). On this basis, further site-specific information is not necessary.

9. This certificate confirms compliance with Mandatory Standard 6.1, based on example criteria with regards to orientation, shading, sheltering and resultant PV array efficiency. Site specific information will be required prior to completion to confirm the actual DER and DDER for the STAS approved house type on each plot on a particular site.
10. Site specific elements, such as those for access, ground conditions, drainage, EV charging, broadband connection etc, require to be assessed by the verifier.
11. This certificate should be read with the related certificates STAS/24/052/DM110/SD/MODEL E, STAS/24/052/DM110/SS/MODEL E and STAS/24/052/DM110/UCR/MODEL E.

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

F	Document Number	Revision	Description
	CALA		
	E-C-GF	A	GROUND FLOOR PLAN
	E-C-FF	A	FIRST FLOOR PLAN
	E-C-SF	A	SECOND FLOOR PLAN
	E-C-TF	A	THIRD FLOOR PLAN
	E-UB		SECTION - UNDERBUILD
	E-EL	A	ELEVATIONS
	NC Designs		
	14389/M08-1	A	SPACE HEATING & PLUMBING DESIGNS
	14389/M08-2	A	EQUIPMENT SCHEDULE
	Wavin		
	A24590-A-5	A	DRAINAGE ISOMETRIC
	Vent Axia		
	CAS 15238_15	A	MVHR LAYOUT - GROUND AND MID FLOORS
	CAS 15238_16	A	MVHR LAYOUT - TOP FLOOR
	Harley Haddow		
	314164-HAH-EC-ZZ-D-S-00110	P01	FLAT TYPE E COMPARTMENTALISED – LEVEL 0-LEVEL 1 FLOOR LAYOUTS
	314164-HAH-EC-ZZ-D-S-00111	P01	FLAT TYPE E COMPARTMENTALISED – LEVEL 2-LEVEL 3 FLOOR LAYOUTS
	314164-HAH-EC-RF-D-S-00112	P01	FLAT TYPE E COMPARTMENTALISED – ROOF LAYOUT
	314164-HAH-EC-ZZ-D-S-00113	P01	FLAT TYPE E COMPARTMENTALISED – DETAILS
	314164-HAH-ZZ-ZZ-D-S-00300	P01	STEEL BALCONY DETAILS (EXPOSED STEEL COLUMNS)
	314164-HAH-ZZ-ZZ-D-S-00301	P01	STEEL BALCONY DETAILS (COLUMNS ENCASED)

G	**Certification**	
	CALA Homes Light and Space Model E Flats Statement of Structural Adequacy	Harley Haddow (Edinburgh) Ltd dated 24 June 2024

H	**Specification**	
	Astute Fire Strategy Report	Revision 4 - 14.04.25
	Refer to STAS/24/052/DM110/SD/MODEL E	Standard Details
	Refer to STAS/24/052/DM110/SS/MODEL E	Standard Specifications
	Refer to STAS/24/052/DM110/UCR/MODEL E	U-values and Condensation Risk
	Integrated Environmental Solutions	TM 59 CALC (Section 3 2022 Compliance Report - Feasibility Report)
	Elmhurst SAP Compliance Report	13.01.2025

I	**Authority:**
	This system type approval certificate consisting of 3 pages is authorised by the **Scottish Building Standards Hub** on behalf of the Local Authority Building Standards Scotland (LABSS).