

House Type Approval Certificate

Certificate No: **STAS/18/083/DM94/01**

Date: **08 April 2019**

A	Certificate Holder:
	Dandara Ltd., Isle of Man Business Park, Cooil Road, Bradden, Isle of Man IM2 2SA per Dandara Ltd., 16 Beech Manor, Stoneywood, ABERDEEN AB21 9AZ E-mail: jmcintosh@dandara.com Tel: 01224 713 713

B	House Type Titles:
	Description: DANDARA 2018 Alder 4

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, $V_e =$ For maximum effective height = Has funnelling been considered?
		45.1 m/s 9.0m NO
	Wind: (as defined in CP3: Chapter V)	Design wind speed, $V_s =$ (relevant to the building frame, at a height of 3m or less)
		N/A
	Snow: (as defined in BS 6399-3)	Site snow load, $S_o =$ Influenced by adjacent buildings?
	0.64 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 / Zone 3 / Zone 4 To be determined by site to site basis To be determined by site to site basis
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 A. Ramsay BSc(Hons) CEng MStructE MICE statement dated January 2019 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.

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

F	Drawing Number:	Description:
	ALDER 4 HOUSETYPE (TWO WINDOWS TO BED 3)	
	FLOOR PLANS (2 WINDOW) S LH END	STAS ALD 350
	FLOOR PLANS (2 WINDOW) H RH END	STAS ALD 351
	FLOOR PLANS (2 WINDOW) S MID	STAS ALD 352
	FLOOR PLANS (2 WINDOW) H MID	STAS ALD 353
	FLOOR PLANS (2 WINDOW) S RH END	STAS ALD 354
	FLOOR PLANS (2 WINDOW) H LH END	STAS ALD 355
	ELEVATIONS (2 WINDOW) S LH END & H LH END - FLAT	STAS ALD 470
	ELEVATIONS (2 WINDOW) S LH END & H LH END - FLAT	STAS ALD 471
	ELEVATIONS (2 WINDOW) S MID & H MID - FLAT	STAS ALD 472
	ELEVATIONS (2 WINDOW) S MID & H MID - FLAT	STAS ALD 473
	ELEVATIONS (2 WINDOW) S RH END & H RH END - FLAT	STAS ALD 474
	ELEVATIONS (2 WINDOW) S RH END & H RH END - FLAT	STAS ALD 475
	ELEVATIONS (2 WINDOW) S LH END & H LH END - LEAN TO	STAS ALD 476
	ELEVATIONS (2 WINDOW) S LH END & H LH END - LEAN TO	STAS ALD 477
	ELEVATIONS (2 WINDOW) S MID & H MID - LEAN TO	STAS ALD 478
	ELEVATIONS (2 WINDOW) S MID & H MID - LEAN TO	STAS ALD 479
	ELEVATIONS (2 WINDOW) S RH END & H RH END - LEAN TO	STAS ALD 480
	ELEVATIONS (2 WINDOW) S RH END & H RH END - LEAN TO	STAS ALD 481
	ELEVATIONS (2 WINDOW) S LH END & H LH END - PITCHED	STAS ALD 482
	ELEVATIONS (2 WINDOW) S LH END & H LH END - PITCHED	STAS ALD 483
	ELEVATIONS (2 WINDOW) S MID & H MID - PITCHED	STAS ALD 484
	ELEVATIONS (2 WINDOW) S MID & H MID - PITCHED	STAS ALD 485
	ELEVATIONS (2 WINDOW) S RH END & H RH END - PITCHED	STAS ALD 486
	ELEVATIONS (2 WINDOW) S RH END & H RH END - PITCHED	STAS ALD 487
	ALDER 4 HOUSETYPE (ONE WINDOW TO BED 3)	
	FLOOR PLANS (1 WINDOW) S LH END	STAS ALD 360
	FLOOR PLANS (1 WINDOW) H RH END	STAS ALD 361
	FLOOR PLANS (1 WINDOW) S MID	STAS ALD 362
	FLOOR PLANS (1 WINDOW) H MID	STAS ALD 363
	FLOOR PLANS (1 WINDOW) S RH END	STAS ALD 364
	FLOOR PLANS (1 WINDOW) H LH END	STAS ALD 365
	ELEVATIONS (1 WINDOW) S LH END & H LH END - FLAT	STAS ALD 450
	ELEVATIONS (1 WINDOW) S LH END & H LH END - FLAT	STAS ALD 451
	ELEVATIONS (1 WINDOW) S MID & H MID - FLAT	STAS ALD 452
	ELEVATIONS (1 WINDOW) S MID & H MID - FLAT	STAS ALD 453
	ELEVATIONS (1 WINDOW) S RH END & H RH END - FLAT	STAS ALD 454
	ELEVATIONS (1 WINDOW) S RH END & H RH END - FLAT	STAS ALD 455
	ELEVATIONS (1 WINDOW) S LH END & H LH END - LEAN TO	STAS ALD 456
	ELEVATIONS (1 WINDOW) S LH END & H LH END - LEAN TO	STAS ALD 457
	ELEVATIONS (1 WINDOW) S MID & H MID - LEAN TO	STAS ALD 458
	ELEVATIONS (1 WINDOW) S MID & H MID - LEAN TO	STAS ALD 459
	ELEVATIONS (1 WINDOW) S RH END & H RH END - LEAN TO	STAS ALD 460
	ELEVATIONS (1 WINDOW) S RH END & H RH END - LEAN TO	STAS ALD 461
	ELEVATIONS (1 WINDOW) S LH END & H LH END - PITCHED	STAS ALD 462
	ELEVATIONS (1 WINDOW) S LH END & H LH END - PITCHED	STAS ALD 463
	ELEVATIONS (1 WINDOW) S MID & H MID - PITCHED	STAS ALD 464
	ELEVATIONS (1 WINDOW) S MID & H MID - PITCHED	STAS ALD 465
	ELEVATIONS (1 WINDOW) S RH END & H RH END - PITCHED	STAS ALD 466
	ELEVATIONS (1 WINDOW) S RH END & H RH END - PITCHED	STAS ALD 467
	SECTIONS (STANDARD)	STAS ALD 400
	SECTIONS (HANDED)	STAS ALD 401

G	Certification:		
	Statement of structural adequacy	From A. Ramsay BSc(Hons) CEng MStructE MICE Consulting Engineer Ltd dated January 2019	
H	Specification:		
	Section 6 Energy	Generic (worst case in terms of location and orientation) SAP calculations have been produced for each house type, on the basis that plot specific SAPs will be submitted to relevant local authority for individual projects and to demonstrate a pass is achievable.	
	STAS Transmittal 31-01-2019		
	STAS_NOTES_100_CONSTRUCTION NOTES		
I	Authority:		
	This system type approval certificate consisting of 3 pages is authorised by:	Signature:	Gordon Spence Lead Authority Building Standards Manager on behalf of the Local Authority Building Standards Scotland (LABSS)

Approved 05 April 2019