

House Type Approval Certificate

Certificate No: **STAS/17/083/DM75/02**

Date: **10 May 2019**

| | |
|----------|--|
| A | Certificate Holder: |
| | Dandara Ltd 16 Beech Manor, Stoneywood, ABERDEEN AB21 9AZ E-mail: jmcintosh@dandara.com Tel: 01224 713 713 |

| | |
|----------|---------------------------|
| B | House Type Titles: |
| | Description: ASH 3 |

| | |
|----------|--|
| 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? | 45.1m/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? | 0.64kN/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 - 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: |
| | <ol style="list-style-type: none"> 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. The certificate shall be valid until invalidated by formal notice by the Local Authority Building Standards Scotland 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. 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 Dandara Statement of Structural Adequacy (dated 17 Jan 2019) referenced here under Section G, confirms that a structural appraisal has been carried out. It 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 (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. |

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

| F | Drawing Number: | Revision: | Description: |
|----------|-------------------------|------------------|---|
| | Dandara plans: | | |
| | STAS_AS3_350 | JAN 2019 | ASH 3 FLOOR PLANS_LH END (STANDARD).PDF |
| | STAS_AS3_351 | JAN 2019 | ASH 3 FLOOR PLANS_RH END (HANDED).PDF |
| | STAS_AS3_352 | JAN 2019 | ASH 3 FLOOR PLANS_MID TERRACE (STANDARD).PDF |
| | STAS_AS3_353 | JAN 2019 | ASH 3 FLOOR PLANS_MID TERRACE (HANDED).PDF |
| | STAS_AS3_354 | JAN 2019 | ASH 3 FLOOR PLANS_RH END (STANDARD).PDF |
| | STAS_AS3_355 | JAN 2019 | ASH 3 FLOOR PLANS_LH END (HANDED).PDF |
| | STAS_AS3_400 | JAN 2019 | ASH 3 SECTIONS.PDF |
| | STAS_AS3_401 | JAN 2019 | ASH 3 SECTIONS (HANDED).PDF |
| | STAS_AS3_450 | JAN 2019 | ASH 3 ELEVATIONS LH END (LEAN TO PORCH ROOF).PDF |
| | STAS_AS3_451 | JAN 2019 | ASH 3 ELEVATIONS MID TERRACE (LEAN TO PORCH ROOF).PDF |
| | STAS_AS3_452 | JAN 2019 | ASH 3 ELEVATIONS RH END (LEAN TO PORCH ROOF).PDF |
| | STAS_AS3_453 | JAN 2019 | ASH 3 ELEVATIONS LH END (FLAT PORCH ROOF).PDF |
| | STAS_AS3_454 | JAN 2019 | ASH 3 ELEVATIONS MID TERRACE (FLAT PORCH ROOF).PDF |
| | STAS_AS3_455 | JAN 2019 | ASH 3 ELEVATIONS RH END (FLAT PORCH ROOF).PDF |
| | SAP submissions: | | |
| | ASH 3 END TERRACE | - | SAP_ASH 3 END TERRACE.PDF |
| | ASH 3 MID TERRACE | - | SAP_ASH 3 MID TERRACE.PDF |

| G | Certification | | |
|--|---|--|--|
| | <table border="1"> <tr> <td>Dandara Statement Of Structural Adequacy</td> <td>STATEMENT OF STRUCTURAL ADEQUACY.pdf From A. Ramsay BSc(Hons) CEng MIStructE MICE dated January 2017</td> </tr> </table> | Dandara Statement Of Structural Adequacy | STATEMENT OF STRUCTURAL ADEQUACY.pdf From A. Ramsay BSc(Hons) CEng MIStructE MICE dated January 2017 |
| Dandara Statement Of Structural Adequacy | STATEMENT OF STRUCTURAL ADEQUACY.pdf From A. Ramsay BSc(Hons) CEng MIStructE MICE dated January 2017 | | |

| H | Specification | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|---|------------------------------------|--|--|---|--------------------------------------|--|--|---|--|--|--|---|---|--|--|--|--|---|--|-------------------------------------|------------------------------------|---|--|--|--|--|---|--|---|--|--|
| | <table border="1"> <tr> <td>Dandara specification (dated Jan 2019)</td> <td>CONSTRUCTION NOTES-09-05-19.PDF</td> </tr> </table> | Dandara specification (dated Jan 2019) | CONSTRUCTION NOTES-09-05-19.PDF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dandara specification (dated Jan 2019) | CONSTRUCTION NOTES-09-05-19.PDF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Standard details | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <tr> <td>Dandara Standard Details</td> <td>DANDARA STANDARD DETAILS.PDF comprising of:</td> </tr> <tr> <td>A_CND_FDN_003-C10 SLAB BLOCKWORK AND RENDER.PDF</td> <td>A_CND_R_019-C0 SPLAYED ROOF VALLEY</td> </tr> <tr> <td>A_CND_FLR_001-C0 INTERMEDIATE FLOOR FYFESTONE DETAIL</td> <td>A_CND_W&D_003-C0 DOOR HEAD RENDERED FINISH</td> </tr> <tr> <td>A_CND_FLR_002-C0 INTERMEDIATE FLOOR BLOCK & RENDER DETAIL</td> <td>A_CND_W&D_004-C0 DOOR HEAD FYFESTONE</td> </tr> <tr> <td>A_CND_FLR_003-C0 INTERMEDIATE FLOOR FYFESTONE DETAIL</td> <td>A_CND_W&D_005-C0 WINDOW CILL RENDERED FINISH</td> </tr> <tr> <td>A_CND_FLR_004-C0 INTERMEDIATE FLOOR BLOCK & RENDER DETAIL</td> <td>A_CND_W&D_006-C0 WINDOW CILL FYFESTONE</td> </tr> <tr> <td>A_CND_FLR_005-C0 SEPERATING PARTY WALL</td> <td>A_CND_W&D_007-C0 WINDOW HEAD RENDERED FINISH</td> </tr> <tr> <td>A_CND_R_001-C0 EAVES AT WINDOW HEAD BLOCKWORK & RENDER DETAIL</td> <td>A_CND_W&D_008-C0 WINDOW HEAD FYFESTONE FINISH</td> </tr> <tr> <td>A_CND_R_002-C0 EAVES AT WINDOW HEAD FYFESTONE DETAIL</td> <td>A_CND_W&D_013-C0 FRONT DOOR JAMB RENDER & FYFESTONE DETAIL</td> </tr> <tr> <td>A_CND_R_005-C0 DRY VERGE BLOCKWORK & RENDER DETAIL</td> <td>A_CND_W&D_016-C0 WINDOW JAMB RENDER & FYFESTONE DETAIL</td> </tr> <tr> <td>A_CND_R_006-C0 DRY VERGE FYFESTONE DETAIL</td> <td>A_CND_WA_003-C0 140MM LOAD BEARING STUD WALL JUNCTION WITH BLOCKWORK</td> </tr> <tr> <td>A_CND_R_007-C0 TYPICAL RIDGE DETAIL</td> <td>A_CND_WA_011-C0 PIPE BOXING DETAIL</td> </tr> <tr> <td>A_CND_R_008-C0 EAVES (RAKING SOFFIT) AT WINDOW HEAD BLOCKWORK & RENDER DETAIL</td> <td>A_CND_WA_013-C0 PARTY WALL JUNCTION DETAIL</td> </tr> <tr> <td>A_CND_R_009-C0 EAVES (RAKING SOFFIT) AT WINDOW HEAD FYFESTONE DETAIL</td> <td>A_CND_WA_014-C0 PARTY WALL JUNCTION WITH BOILER DETAIL</td> </tr> <tr> <td>A_CND_R_015-C0 ROOF ABUTMENT RENDER PANEL DETAIL</td> <td>A_CND_WA_020-C0 STEPPED PARTY WALL ROOF VERGE</td> </tr> <tr> <td>A_CND_R_016-C0 PARTY WALL CEILING JUNCTION</td> <td>JJI ACOUSTIC PERFORMANCE OF 220MM JJI JOIST FLOOR</td> </tr> <tr> <td>A_CND_R_017-C0 PARTY WALL TO ROOF JUNCTION</td> <td>VUT 421 SEPARATING WALL ROOF DETAIL EAVES CLOSER</td> </tr> </table> | Dandara Standard Details | DANDARA STANDARD DETAILS.PDF comprising of: | A_CND_FDN_003-C10 SLAB BLOCKWORK AND RENDER.PDF | A_CND_R_019-C0 SPLAYED ROOF VALLEY | A_CND_FLR_001-C0 INTERMEDIATE FLOOR FYFESTONE DETAIL | A_CND_W&D_003-C0 DOOR HEAD RENDERED FINISH | A_CND_FLR_002-C0 INTERMEDIATE FLOOR BLOCK & RENDER DETAIL | A_CND_W&D_004-C0 DOOR HEAD FYFESTONE | A_CND_FLR_003-C0 INTERMEDIATE FLOOR FYFESTONE DETAIL | A_CND_W&D_005-C0 WINDOW CILL RENDERED FINISH | A_CND_FLR_004-C0 INTERMEDIATE FLOOR BLOCK & RENDER DETAIL | A_CND_W&D_006-C0 WINDOW CILL FYFESTONE | A_CND_FLR_005-C0 SEPERATING PARTY WALL | A_CND_W&D_007-C0 WINDOW HEAD RENDERED FINISH | A_CND_R_001-C0 EAVES AT WINDOW HEAD BLOCKWORK & RENDER DETAIL | A_CND_W&D_008-C0 WINDOW HEAD FYFESTONE FINISH | A_CND_R_002-C0 EAVES AT WINDOW HEAD FYFESTONE DETAIL | A_CND_W&D_013-C0 FRONT DOOR JAMB RENDER & FYFESTONE DETAIL | A_CND_R_005-C0 DRY VERGE BLOCKWORK & RENDER DETAIL | A_CND_W&D_016-C0 WINDOW JAMB RENDER & FYFESTONE DETAIL | A_CND_R_006-C0 DRY VERGE FYFESTONE DETAIL | A_CND_WA_003-C0 140MM LOAD BEARING STUD WALL JUNCTION WITH BLOCKWORK | A_CND_R_007-C0 TYPICAL RIDGE DETAIL | A_CND_WA_011-C0 PIPE BOXING DETAIL | A_CND_R_008-C0 EAVES (RAKING SOFFIT) AT WINDOW HEAD BLOCKWORK & RENDER DETAIL | A_CND_WA_013-C0 PARTY WALL JUNCTION DETAIL | A_CND_R_009-C0 EAVES (RAKING SOFFIT) AT WINDOW HEAD FYFESTONE DETAIL | A_CND_WA_014-C0 PARTY WALL JUNCTION WITH BOILER DETAIL | A_CND_R_015-C0 ROOF ABUTMENT RENDER PANEL DETAIL | A_CND_WA_020-C0 STEPPED PARTY WALL ROOF VERGE | A_CND_R_016-C0 PARTY WALL CEILING JUNCTION | JJI ACOUSTIC PERFORMANCE OF 220MM JJI JOIST FLOOR | A_CND_R_017-C0 PARTY WALL TO ROOF JUNCTION | VUT 421 SEPARATING WALL ROOF DETAIL EAVES CLOSER |
| Dandara Standard Details | DANDARA STANDARD DETAILS.PDF comprising of: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A_CND_FDN_003-C10 SLAB BLOCKWORK AND RENDER.PDF | A_CND_R_019-C0 SPLAYED ROOF VALLEY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A_CND_FLR_001-C0 INTERMEDIATE FLOOR FYFESTONE DETAIL | A_CND_W&D_003-C0 DOOR HEAD RENDERED FINISH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A_CND_FLR_002-C0 INTERMEDIATE FLOOR BLOCK & RENDER DETAIL | A_CND_W&D_004-C0 DOOR HEAD FYFESTONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A_CND_FLR_003-C0 INTERMEDIATE FLOOR FYFESTONE DETAIL | A_CND_W&D_005-C0 WINDOW CILL RENDERED FINISH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A_CND_FLR_004-C0 INTERMEDIATE FLOOR BLOCK & RENDER DETAIL | A_CND_W&D_006-C0 WINDOW CILL FYFESTONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A_CND_FLR_005-C0 SEPERATING PARTY WALL | A_CND_W&D_007-C0 WINDOW HEAD RENDERED FINISH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A_CND_R_001-C0 EAVES AT WINDOW HEAD BLOCKWORK & RENDER DETAIL | A_CND_W&D_008-C0 WINDOW HEAD FYFESTONE FINISH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A_CND_R_002-C0 EAVES AT WINDOW HEAD FYFESTONE DETAIL | A_CND_W&D_013-C0 FRONT DOOR JAMB RENDER & FYFESTONE DETAIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A_CND_R_005-C0 DRY VERGE BLOCKWORK & RENDER DETAIL | A_CND_W&D_016-C0 WINDOW JAMB RENDER & FYFESTONE DETAIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A_CND_R_006-C0 DRY VERGE FYFESTONE DETAIL | A_CND_WA_003-C0 140MM LOAD BEARING STUD WALL JUNCTION WITH BLOCKWORK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A_CND_R_007-C0 TYPICAL RIDGE DETAIL | A_CND_WA_011-C0 PIPE BOXING DETAIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A_CND_R_008-C0 EAVES (RAKING SOFFIT) AT WINDOW HEAD BLOCKWORK & RENDER DETAIL | A_CND_WA_013-C0 PARTY WALL JUNCTION DETAIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A_CND_R_009-C0 EAVES (RAKING SOFFIT) AT WINDOW HEAD FYFESTONE DETAIL | A_CND_WA_014-C0 PARTY WALL JUNCTION WITH BOILER DETAIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A_CND_R_015-C0 ROOF ABUTMENT RENDER PANEL DETAIL | A_CND_WA_020-C0 STEPPED PARTY WALL ROOF VERGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A_CND_R_016-C0 PARTY WALL CEILING JUNCTION | JJI ACOUSTIC PERFORMANCE OF 220MM JJI JOIST FLOOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A_CND_R_017-C0 PARTY WALL TO ROOF JUNCTION | VUT 421 SEPARATING WALL ROOF DETAIL EAVES CLOSER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | |
|----------|------------------------------|------------------|--|-------------|
| H | Section H (continued) | | | |
| | Bridging details | | | |
| | Scotframe bridging details | | SCOTFRAME BRIDGING DETAILS.PDF comprising of: | |
| | PARTY WALL | EXTERNAL WALL OP | PARTY WALL | WALL HEAD |
| | PARTY WALL | GROUND FLOOR | PSI VALUES FOR | V4 DEC 2014 |
| | PARTY WALL | INTERNAL FLOOR | OPEN PANEL | SYSTEMS |

| | | | |
|----------|---|------------|---|
| I | Authority: | | |
| | This system type approval certificate consisting of 3 pages is authorised by: | Signature: | |
| | | | Robert A Renton, Secretary to STAS on behalf of the Local Authority Building Standards Scotland (LABSS) |

Approved 10 May 2019