CERTIFICATE OF APPROVAL
No CF218

This is to certify that, in accordance with
TS00 General Requirements for Certification of Fire Protection Products
The undermentioned products of

VICAIMA LIMITED

Marlowe Avenue, Greenbridge Industrial Estate,
Swindon, Wiltshire SN3 3JF
Tel: 01793 532333 Fax: 01793 530193

Have been assessed against the requirements of the Technical Schedule(s) denoted below and are approved for use subject to the conditions appended hereto:

CERTIFIED PRODUCT	TECHNICAL SCHEDULE
Vicaima FD30 (Standard Duty Core) Timber Door Assemblies	TS10 Fire Resisting Door Assemblies with Non - Metallic Leaves

Signed and sealed for and on behalf of Exova (UK) Limited trading as Warrington Certification

Paul Duggan
Certification Manager

Issued: 1st July 1999
Revised: 9th August 2018
Valid to: 16th February 2022

CERTIFICATE No CF218
VICAIMA LIMITED

VICAIMA FD30 (STANDARD DUTY CORE) TIMBER DOOR ASSEMBLIES

This approval relates to the use of the above doors in providing fire resistance of 30 minutes insulation (if incorporating not more than 20% of uninsulating glass) and 30 minutes integrity as defined in BS 476: Part 22. Subject to the undermentioned conditions, the doors would be expected to meet the relevant requirements of BS 9999 for FD30 door assemblies when used in accordance with the provisions therein.

1. This certificate is designed specifically to demonstrate compliance of the product or system with Approved Document B (England and Wales); the Technical Handbooks (Scotland); Technical Booklet E (N. Ireland). If compliance is required with other regulatory or guidance documents there may be additional considerations or conflicts to be taken into account.

2. The doors are approved on the basis of:

   i) Initial type testing

   ii) A design appraisal against TS10

   iii) Inspection and surveillance of factory production control

   iv) Certification under a CERTIFIRE approved Quality Management System

   v) Audit testing in accordance with TS10

3. The doors comprise flaxboard / particleboard cored timber framed leaves in various finishes for use with timber, with intumescent edge seals (ITT FD30).

4. This approval is applicable to both complete door assemblies and door leaves. Where the door is not supplied in a fully fitted form it is a condition of this approval that an agreed Data Sheet accompanies the product and is complied with in its entirety. Failure to do so will invalidate this approval and may jeopardise the fire performance of the door.

5. This approval is applicable to latched and unlatched, single-acting, single and double-leaf, ITT assemblies, at leaf dimensions up to those given in Table 1:

6. Glazing shall only be undertaken by the door manufacturer, or a CERTIFIRE approved Licensed Door Processor, and shall be in accordance with the Data Information Sheet and Construction Specification. No site cutting or glazing of apertures is permitted.

7. Hardware items, including closing devices and intumescent fire seals, shall be as specified in the Data Sheet.

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8. The door assembly shall be mechanically fixed to wall constructions having a fire resistance of at least 30 minutes.

9. Labels to the CERTIFIRE design, or approved by CERTIFIRE, referencing CERTIFIRE and CERTIFIRE Ref. No. CF218 and FD30 classifications resistance shall be affixed to each door in the prescribed position.

10. This approval relates to on-going production. The product and/or its immediate packaging is identified with the manufacturer's name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application when appropriate.

Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m^2)
Single-Acting, Single-Leaf **Latched**	2516 (at 926 wide)	1142 (at 2040 high)	2.33
Single-Acting, Single-Leaf **Unlatched**	2278 (at 926 wide)	1034 (at 2040 high)	2.11
Single-Acting, Double-Leaf Latched / Unlatched	2244 (at 926 wide)	1019 (at 2040 high)	2.08
Single-Acting, Single-Leaf **Latched – PVC Clad Frame**	2641 (at 813 wide)	1056 (at 2032 high)	2.14
Single-Acting, Double-Leaf **Latched – PVC Clad Frame**	2641 (at 813 wide)	1056 (at 2032 high)	2.14

Table 1

Note: Under no circumstances must either the maximum height or maximum width be exceeded without separate CERTIFIRE approval.

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CF218 DATA SHEET

1. General

This door leaf has been fire tested and is certified by CERTIFIRE as being capable of providing fire resistance of 30 minutes integrity and 30 minutes insulation (if incorporating not more than 20% of uninsulated glass) as defined in BS 476: Part 22, when installed in accordance with the following conditions. Subject to these, the door will meet the relevant requirements of BS 9999 for FD 30 when used in accordance with the provisions therein.

In recognition of this, the leaf carries a prefixed label on the top or hanging edge of the door, issued under the terms of the CERTIFIRE scheme. This label uniquely identifies the door leaf, the manufacture of which complies with a CERTIFIRE approved Quality Management System and is subject to on-going surveillance. This label shall not be removed.

It is emphasised that the certification is conditional upon the following instructions being complied with in their entirety. Failure to do so will invalidate this approval and may jeopardise the fire performance of the door. Door assemblies supplied pre-fitted with components by Vicaima Limited may be considered to meet the requirements in respect of those items.

2. Door Leaf Dimensions

This approval is applicable to single-action, single and double-leaf, latched and unlatched, assemblies at leaf dimensions up to those detailed within Table 1 below.

Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m^2)
Single-Acting, Single-Leaf **Latched**	2516 (at 926 wide)	1142 (at 2040 high)	2.33
Single-Acting, Single-Leaf **Unlatched**	2278 (at 926 wide)	1034 (at 2040 high)	2.11
Single-Acting, Double-Leaf Latched / Unlatched	2244 (at 926 wide)	1019 (at 2040 high)	2.08
Single-Acting, Single-Leaf **Latched – PVC Clad Frame**	2641 (at 813 wide)	1056 (at 2032 high)	2.14
Single-Acting, Double-Leaf **Latched – PVC Clad Frame**	2641 (at 813 wide)	1056 (at 2032 high)	2.14

Table 1

Note: Under no circumstances must either the maximum neight or maximum width be exceeded without separate CERTIFIRE approval.

3. Door Frame

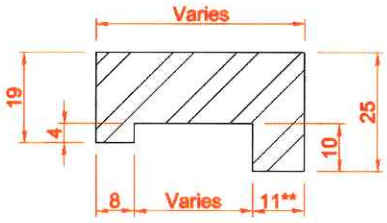
To be any of the following:-

Chipboard	i) Density:	670 kg/m^3 (± 20 kg/m^3)
	ii) Dimensions:	125 mm by 28 mm min.
	iii) Door Stop:	40 mm by 15 mm, glued, pinned or screwed.
	iv) Architrave:	57 mm by 15 mm minimum
	v) Jointing	Butt joints, mortice and tenon, mitred or half lapped joints with the head screw fixed to the jambs using

		two steel screws
MDF	i) Density:	750 kg/m^3 (± 20 kg/m^3)
	ii) Dimensions:	70 mm by 30 mm min.
	iii) Door Stop:	25 mm by 12.5 mm, glued, pinned or screwed.
	iv) Architrave:	57 mm by 15 mm minimum
	v) Jointing	Butt joints, mortice and tenon, mitred or half lapped joints with the head screw fixed to the jambs using two steel screws

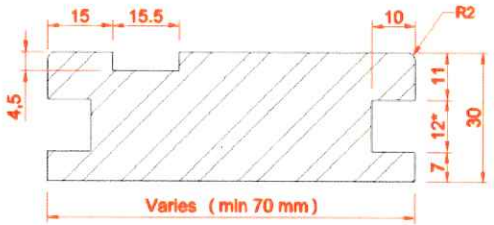
MDF linings may incorporate grooves, in order to accommodate tongued architraves as detailed below. The tongues are to be bonded into the grooves using PVA adhesive, with the architraves further pin fixed, in accordance with the manufactures installation details.

Tongued Architrave



**Tolerance applicable is ±0.25 mm

Grooved frame lining



*Tolerance applicable is -0mm / +0.5 mm

Softwood / Hardwood	i) Density:	510 kg/m^3 min.
	ii) Dimensions:	70 mm by 30 mm min.
	iii) Door Stop:	25 mm by 12.5 mm, glued, pinned or screwed.
	iv) Architrave:	57 mm by 15 mm minimum
	v) Jointing	Butt joints, mortice and tenon, mitred or half lapped joints with the head screw fixed to the jambs using two steel screws

PVC Clad Softwood	i) Manufacturer:	Boomer Industries Ltd
	ii) Material:	Extruded Polyvinyl Chloride P.V.C. on machined softwood sub-frame
	iii) Reference:	Pre-Hung Door System (P.H.D.)
	iv) Thickness:	P.V.C. 1.3 mm
		Wood 32 mm
	v) Dimensions	95 mm by 55 mm minimum overall
	vi) Jointing:	P.V.C. Mitred
		Wood tenon joint screwed & glued using 3No. 4 mm by 60 mm long screws per joint
	vii) PCV to sub frame fixings	Galvanised mild steel staples, 10 mm by 1 mm at no 100 mm centres

Door to frame gaps:	Not to exceed 3 mm except at threshold where up to 8 mm is permitted.

4. Supporting Construction

The door assemblies are approved to be installed in brick, block, masonry, timber or steel stud of minimum thickness 70 mm, providing at least 30 minutes fire resistance. Where stud partitions are used these should be suitably constructed to provide a secure fixing for the door assemblies as recommended by the partition manufacturer.

5. Installation

The opening may be lined with softwood or hardwood which shall be continuous and of minimum width, 70mm. Each door frame jamb to be fixed through to the wall at not less than four points with steel or nylon fixings at maximum 600 mm centres penetrating the wall to at least 50 mm. Architraves are optional with no restrictions on material, size or fixing.

Door assemblies shall be installed as stated in BS 8214. Suitable CERTIFIRE approved lineal gap sealing systems may also be utilised to protect the frame/supporting construction gap, subject to the conditions contained within the relevant certificate.

The use of third party accredited installers provides a means of ensuring that installations have been conducted by knowledgeable contractors, to appropriate standards, thereby increasing the reliability of the anticipated performance in fire.

Door leaves may be trimmed to fit the frame by the following maximum amounts:

- Stiles (each): 4 mm
- Bottom: 6 mm

Note that the maximum door to frame and door to threshold gaps specified shall not be exceeded, nor shall the door edge fitted with the CERTIFIRE label be trimmed since removal of the label will invalidate the certification.

The labelled edge may be subjected to minor 'shooting-in', providing the label is not damaged or removed in the process, and the amount of material removed does not exceed that stated previously.

6. Glazed Apertures

All apertures to be factory prepared by Vicaima Limited, or a CERTIFIRE approved Licensed Door Processor. No site cutting of apertures permitted as this will invalidate the certification.

Door may incorporate CERTIFIRE approved glazing systems subject to the conditions contained within the relevant CERTIFIRE certificate (e.g. maximum size associated with glass, system, edge cover, aperture lining requirements, etc.) and the maximum pane dimensions given below (whichever is smaller):

Aperture dimensions: Doors may incorporate one or more vision panels to the maximum sizes identified in the table below:

Area: Maximum total glazed area of 1.22 m^2 per leaf

Margins: 125 mm from the perimeter edge, 125 mm between apertures

Maximum Permitted Aperture Dimensions		
Max. Height (mm)	**Max. Width (mm)**	**Max. Area (m^2)**

1828 (at 668 wide)	768 (at 1589 high)	1.22

Hardwood or non-combustible setting blocks will be used to establish the correct edge cover.

Non–Insulating Glasses: 6 mm Pyroshield 2 or 7 mm Pyrodur Plus glass, or other CERTIFIRE approved glass subject to the conditions of the glass certificate.

Intumescent System	Glass	Bead Dimensions	Bead Density	Fixings	Max. Height (mm)	Max. Width (mm)	Max. Area (m^2)
Hodgsons Firestrip 30 12 mm x 3 mm Hodgson Sealants Silfix UP silicone may be used between beads and glass	Pyroshield 2	21 mm high by 22 mm wide with a 6 mm bolection.	Hardwood min. 640kg/m^3	50 mm long steel pins at max 100 mm centres	841 (at 499 wide)	607 (at 692 high)	0.42
Hodgsons Firestrip 30 12 mm x 3 mm Hodgson Sealants Silfix UP silicone may be used between beads and glass	Pyrodur Plus	22 mm high by 19 mm wide with a 5 mm bolection. Ladder beading to Pyrodur glass permitted using Hodgson Sealants glazing tape.	Hardwood min. 640kg/m^3	38 mm long steel pins at max 200 mm centres	1828 (at 668 wide)	768 (at 1589 high)	1.22
Lorient Polyproducts Ltd Foamed Glazing Graphite 15 mm x 2 mm	Pyroshield 2	22.5 mm high by 22 mm wide with a 6 mm bolection.	Hardwood min. 640kg/m^3	50 mm long steel pins at max 150 mm centres	710 (at 535 wide)	590 (at 644 high)	0.38

7. Intumescent Seals

CERTIFIRE certificated intumescent seals are required to be fitted to these doors as below.

Intumescents positioned on the centre line of frame head and jamb reveals or in the centre of leaf edge at head and stiles.
Hinge positions should be bypassed by a 170 mm length of seal as specified below and hinges bedded onto intumescent mastic **OR** hinges may be fully interrupted and be bedded onto 1 mm thick ISL Therm-A-Strip pad.

For door assemblies to BS476: Part 22 – classified as FD30

Chipboard / MDF / Softwood / Hardwood frames

Door assembly Configuration*	Position	Required Intumescent Protection
Single-acting, Single-leaf door assemblies **Latched**	Head	Single 10 mm wide by 4 mm thick ISL Therm-A-Seal in rebate of frame or door leaf edge
	Vertical edges	Single 10 mm wide by 4 mm thick ISL Therm-A-Seal in rebate of frame or door leaf edge

Single-acting, Single-leaf door assemblies **Unlatched**	Head	Single 15 mm wide by 4 mm thick ISL Therm-A-Seal in rebate of frame
	Vertical edges	Single 15 mm wide by 4 mm thick ISL Therm-A-Seal in rebate of frame

*See Table 1 for size restrictions

Chipboard / MDF / Softwood / Hardwood frames - continued

Single-acting, double-leaf Latched / Unlatched **(Option 1)**	Head	Single 20 mm wide by 4 mm thick ISL Therm-A-Seal in rebate of frame
	Hanging edges	Single 15 mm wide by 4 mm thick ISL Therm-A-Seal in rebate of frame
	Meeting edges	Single 15 mm wide by 4 mm thick ISL Therm-A-Seal in each meeting edge (opposing)
Single-acting, double-leaf Latched / Unlatched **(Option 2)**	Head	Single 15 mm wide by 4 mm thick Lorient Type 617 in rebate of frame
	Hanging edges	Single 15 mm wide by 4 mm thick Lorient Type 617 in rebate of frame
	Meeting edges	2 No.10 mm wide by 4 mm thick Lorient Type 617 to the meeting edge of the primary leaf only (positioned centrally, 10 - 12 mm apart)
Single-acting, double-leaf Latched / Unlatched **(Option 3)**	Frame Head	Single 15 mm wide by 4 mm thick Pyroplex intumescent from the FO8700 range of options
	Frame Jambs	Single 15 mm wide by 4 mm thick Pyroplex intumescent from the FO8700 range of options
	Meeting edges	2 No.10 mm wide by 4 mm thick Pyroplex intumescents from the FO8500 range of options to the meeting edge of the primary leaf only (positioned centrally, 10 - 12 mm apart)

*See Table 1 for size restrictions

PVC Clad Frames

Single-acting, Single-leaf Latched / Unlatched **PVC Clad Frame**	Head	Single 20 mm by 4 mm thick Lorient LP2004 Palusol seal in rebate of frame concealed under PVC cladding
	Vertical edges	Single 20 mm by 4 mm thick Lorient LP2004 Palusol seal in rebate of frame concealed under PVC cladding
Single-acting, Double-leaf Latched / Unlatched **PVC Clad Frame**	Head	Single 20 mm by 4 mm thick Lorient LP2004 Palusol seal in rebate of frame concealed under PVC cladding
	Vertical edges	Single 20 mm by 4 mm thick Lorient LP2004 Palusol seal in rebate of frame concealed under PVC cladding
	Meeting edges	Single 15 mm wide by 4 mm thick ISL Therm-A-Seal in each meeting edge (opposing)

*See Table 1 for size restrictions

Seals may be interrupted at latch positions. Alternative seals may be utilised in-line with the relevant CERTIFIRE approval for the proposed intumescent seal. All seals to be CERTIFIRE approved (to Technical Schedule 35).

Smoke seals may be included subject to the conditions contained within the relevant CERTIFIRE certificate for the smoke seal.

8. Hinges

Hinges shall be CE marked against EN 1935 for use on 30 minute timber fire door assemblies.

Number:	Minimum 3 No.
Type:	Steel lift off or butt hinges.
Positions:*	Maximum 200 mm from the top of door to top hinge. Maximum 400 mm from the bottom of door to bottom hinge. Middle hinge fitted centrally in the leaf height.
Dimensions:	i) Material: Steel: Height: 100 - 110 mm Brass: Height: 150 mm (Butt hinge only) ii) Blade width: 32 - 35 mm iii) Thickness: 3 mm (+/- 0.5 mm) iv) Knuckle dia.: Maximum 12 mm
Fixings:	Minimum 4No. steel screws, minimum 25 mm long.
Intumescent Protection**	i) Intumescent paste if hinges are bypassed by 170 mm length of intumescent strip as detailed in section 7 ii) 1 mm thick ISL Therm-A-Strip pad where perimeter intumescents are fully interrupted.

* The datum in all cases is the centreline of the hinge.
** This specification overrides any requirement for additional intumescent identified in the hinge manufacturer's certification providing the hinge specification falls within the parameters identified above, specifically maximum dimensions and material. Where alternative hinges exceed the specification given above the intumescent protection as identified in the hinge manufacture's CERTIFIRE certificate shall apply.

Any other CERTIFIRE approved hinges may be used, subject to the conditions contained within the relevant certificate.

9. Locks and Latches

Locks / latches are not necessary. When fitted locks / latches shall be CE Marked for use on 30 minute timber fire doors.

Mortice type, automatic (sprung) latch bolt, cylinder rim nightlatches and knobsets.

Max. case dimension:	130 mm high by 90 mm deep by 20 mm wide
Max. forend dimension:	150 mm high by 20 mm wide
Max. keep dimension:	150 mm high by 20 mm wide (excluding latch plate)
Latchbolt material:	Steel or material with a melting point greater than 950°C
Position:	Max. 1100 mm from bottom of door to centreline of lockcase
Intumescent: protection*	Latch cases, forend and strike plate to be bedded onto 1 mm intumescent mastic.

Note: Tubular latches with forend dimensions of maximum 60 mm high by 25 mm wide and a steel latchbolt do not require intumescent protection.

* This specification overrides any requirement for additional intumescent identified in the lock manufacturer's certification providing the lock/latch specification falls within the parameters identified above, specifically maximum dimensions and material. Where alternative lock/latch exceeds the specification given above the intumescent protection as identified in the lock/latch manufacture's CERTIFIRE certificate shall apply.

Any other CERTIFIRE approved lock/latch may be fitted, subject to the conditions contained within the relevant certificate.

Recessing for locks should result in a tight fit, allowing for any intumescent protection where required.

No restriction on type and material of handles.

10. Self-Closing Devices

All doors are required to be fitted with a CERTIFIRE certificated self-closing device. The exceptions are doors kept locked shut such as service access doors. Note: closers with mechanical hold-open mechanisms are not permitted to be used. Building Regulations may identify locations within domestic locations where self-closing devices are not mandatory.

The closers shall have a power rating appropriate to the leaf sizes, subject to the closer having the ability to close the door from any angle and against any latch and/ or seals fitted. The closer shall have the ability to provide size 3 closing force. Where doors are unlatched a minimum size 3 shall be maintained.

Closers shall be CE Marked against EN 1154 and categorised as grade 1 – suitable for use on fire / smoke door assemblies.

10a Surface mounted overhead closers

Any CERTIFIRE approved surface mounted overhead closer may be fitted, subject to the conditions contained within the relevant certificate.

10b Transom Mounted and Concealed Closers

Not permitted

10c Floor Springs

Not permitted

11. Ancillary items

Please note that hardware items other than those discussed within this certificate of approval are not permitted.

11a Protection plates and signage

Surface mounted plastic, steel, aluminium or brass plates are acceptable on the following basis:

- < 2mm thick
- Do not occupy more than 20% of the door leaf in total, or exceed 500mm in height for kickplates and 300mm for mid-plates, whichever is the smaller.
- Do not wrap around the vertical edges, and on the closing face do not extend beneath the door stops (generally 40-50mm narrower than door width)
- Plates/signage can be bonded with a thermally softening adhesive. Additionally screws may be used.

11b Flushbolts

Flush bolts may be fitted to one leaf at the meeting edges of double leaf doorsets in line with the specification below:

Maximum case dimensions:	160 mm high, 14 mm wide by 12 mm deep
Latch bolt material:	steel
Protection:	1 mm Therm-A-Strip fitted to each face of rebate

Note: the following specification must also be complied with when doorsets are fitted with flush bolts:

- When fitted, flush bolts MUST be fully engaged. Suitable signage must be applied to the door specifying this requirement. Approval of doorsets is invalidated if flush bolts are fitted but are disengaged
- Doorsets fitted with flush bolts are only approved when the door frame comprises hardwood with a minimum density of 700kg/m^3. The frame jambs may be manufactured from alternative CF218 compliant frame materials, but should any material other than hardwood be used for the frame head as previously specified this approval will be invalidated.

11c Pull Handles

Screw-fixed, bolt-fixed from the back and back-to-back fixed pull handles of steel, brass, aluminium and nylon coated, are permitted providing any through-bolt fixing is of steel.

11d Air transfer grilles

No site cutting of apertures permitted as this will invalidate the certification.

Where apertures are pre-cut by Vicaima Limited, or a CERTIFIRE approved Licensed Door Processor, Intumescent Air Transfer Grilles may be fitted on site by NON-CERTIFIRE approved staff, however, the Intumescent Air Transfer Grilles shall be CERTIFIRE approved for use in FD30 timber based doors. The air transfer grilles must be fitted into apertures prepared in line with the relevant CERTIFIRE certificate for the air transfer grille. Care must be taken to ensure all fitting instructions are followed, including any constraints imposed by the CERTIFIRE certificate with regards to position of the air transfer grille within the door assembly.

11e Letter Plates

Where letter plates are fitted, the aperture for a letter plate may be formed on site by NON-CERTIFIRE approved staff, however, the letter plates shall be CERTIFIRE approved for use in FD30 timber based doors. The letter plates must be fitted into apertures prepared in line with the relevant CERTIFIRE certificate for the letter plate. Care must be taken to ensure all fitting

instructions are followed, including any constraints imposed by the CERTIFIRE certificate with regards to position of the letter plate within the door assembly.

11f Door Viewers

A door viewer may be fitted into the leaf providing the viewer comprises a metal sleeve and an optical glass lens and is not positioned higher than 1590 mm from the bottom edge of the door leaf. The door viewer should have an external barrel diameter of not greater than 14 mm and be tightly fitted within the leaf. The aperture provided for the installation of the viewer should be lined with intumescent mastic or 1 mm Interdens / Graphite intumescent sheet material.

The use of the UAL Limited door viewer referenced CVPLMPSS is specifically approved in accordance with the previous door viewer requirements stated above.

11g Coat Hooks and Other Surface Mounted Hardware

Ancillary items which are wholly surface mounted may be fitted providing:

- These items are screw fixed or bonded only
- Are not bolted through the full thickness of the door
- Are not directly above, or closer than 100 mm to any non-insulated glazing

11h Dropseals

Door assemblies may incorporate CERTIFIRE approved dropseals to the bottom edge of the door leaf. The CERTIFIRE approved dropseals may be surface mounted or fully morticed. Where fully morticed the dropseals will have maximum dimensions of 35 mm high by 15 mm wide.

Where dropseals are fitted, the recess for a dropseal may be formed on site by NON-CERTIFIRE approved staff. Care must be taken to ensure all fitting instructions are followed, including any constraints imposed by the CERTIFIRE certificate.

Note: Threshold gaps as stated in Section 3 are to be maintained

11i. Electric Strikes / Electro mechanical locks

Not permitted

12. Further Information

Further information regarding the details contained in this data sheet may be obtained from Vicaima Limited (Tel: 01793 532333).

Further information regarding the CERTIFIRE certification and other approved products can be obtained from Exova (UK) Limited trading as Warrington Certification (Tel: +44 (0) 1925 646777).