

At 20 minutes



After 30 minutes



The legal validity of this report can only be claimed on presentation of the complete report.

After 36 minutes



After 40 minutes



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Description of construction (refers to Figures 1 to 4 of the appendix)

Leaf - doorset A

		Species/type	Dimensions (mm)	Density (kg/m ³)	Moisture (% w/w)	Key to figures
Stiles and muntin*		Oak veneered particleboard** 2No layers 12mm exposed face, 30mm unexposed face	120 wide x 44 thick with a 24.2 wide x 10.5 deep rebate to accept the panel	600*	12	1
Rails*	Top	Oak veneered particleboard** 2No layers 12mm exposed face, 30mm unexposed face	117 wide x 44 thick with a 24.2 wide x 10.5 deep rebate to accept the panel	600*	12	2
	Middle	Oak veneered particleboard** 2No layers 12mm exposed face, 30mm unexposed face	160 wide x 44 thick with a 24.2 wide x 10.5 deep rebate to accept the panel	600*	12	3
	Bottom	Oak veneered particleboard** 2No layers 12mm exposed face, 30mm unexposed face	185 wide x 44 thick with a 24.2 wide x 10.5 deep rebate to accept the panel	600*	12	4
Panel*		Oak veneered particleboard**	30 thick reduced to 24 thick at fielded areas	600*	10	5
Panel beadings*		Oak	17.5 high x 18 wide	550*	-	6
Beading fixings		Headless steel pins	20 long located at 25mm from corners at 100mm centres	-	-	7
Adhesive*	Lipping	Durabond PA117	-	-	-	-
	Veneer	Durabond PA 1015(PB)	-	-	-	-
	Layered particle board	Urea formaldehyde glue	-	-	-	-
Lippings* - all edges		Oak	16 thick-vertical edges 10 thick-horizontal edges	550*	10	8
Joinery junctions		Timber dowel (see figure 1 for locations)	14Ø x 95 long	-	-	9

* Stated by client, not checked by laboratory

** Details held on file by CIFL

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Leaf - doorset B

		Species/type	Dimensions (mm)	Density (kg/m ³)	Moisture (% w/w)	Key to figures
Stiles*		Oak veneered particleboard** 2No layers 12mm exposed face, 30mm unexposed face	120 wide x 44 thick grooved to accept the core	600*	11.5	10
Rails*	Top	Oak veneered particleboard** 2No layers 12mm exposed face, 30mm unexposed face	117 wide x 44 thick grooved to accept the core	600*	10	11
	Bottom	Oak veneered particleboard** 2No layers 12mm exposed face, 30mm unexposed face	185 wide x 44 thick grooved to accept the core	600*	10	12
Core*		Comprised - 2No layers particle board** 12mm exposed face, 30mm unexposed face	5No 107 wide x 44 thick (see figure 1)	600*	10.5	13
Core inserts*		Oak	20 wide x 44 deep with 10 wide x 5 deep groove on each face	550*	-	14
Adhesive*	Lipping	Durabond PA117	-	-	-	-
	Veneer	Durabond PA1015(PB)	-	-	-	-
	Layered particle board	Urea formaldehyde glue	-	-	-	-
Lippings* - all edges		Oak	16 thick-vertical edges 10 thick-horizontal edges	550*	11	15
Joinery junctions		Timber dowel (see figure 1 for locations)	14Ø x 95 long	-	-	9

* Stated density, not checked by laboratory

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Door frame – both doorsets

	Species/type	Dimensions (mm)	Density (kg/m ³)	Moisture (% w/w)	Key to figures
Head & jambs	European redwood	32 thick x 70 deep	510**	10-11	16
Head to jamb jointing detail	Mortise and tenon – screwed	-	-	-	-
Stops – planted (pinned)	European redwood	12 deep x 20 wide	510**	11.5	17
Frame to supporting construction fire stopping detail	Mann McGowan Fabrications Ltd Pyromas intumescent acrylic mastic	Nominally 5-10mm wide x 10-15 deep	-	-	-
Frame to supporting construction fixing detail	3No steel wood screws per jamb	80 long	-	-	-
Architrave	European redwood	18 thick	510**	-	-
Threshold	Non combustible	-	-	-	-

* Stated density not checked by laboratory

** Nominal density

Intumescent materials – both doorsets

	Make/type	Size (mm)	Location	Key to figures	
Door edges	None fitted	-	-	-	
Frame reveal	Head and jambs	Intumescent Seals Ltd Therm – A – Seal	15 x 4	Centrally fitted in the frame reveal	18
Around hinges	Fully interrupted	-	Hinge blade fully interrupts seal on frame jamb	-	
Under hinge blade	None fitted	-	-	-	
Encasing latch body	None fitted	-	-	-	
Under latch forend	None fitted	-	-	-	
Around latch keep	Fully interrupted	-	-	-	
Under latch keep	None fitted	-	-	-	
Panel perimeter – doorset A only	Mann McGowan Fabrications Ltd Pyromas 'A' intumescent mastic	1-2 thick	Fitted around the perimeter of the panels	19	

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Hardware – both doorsets

	Make/type	Size (mm)	Location	Key to figures
Hinges	Royde and Tucker Hi-Load 105 lift off type hinges	100 x 35 (blade size)	Fitted 150mm, 925mm and 1702mm from the head of the leaf	20
Closer	Dorma (UK) Ltd TS71 overhead type closer	230 x 68 (footprint size)	Fitted on the exposed face as per the manufacturers instructions	21
Latch	Eurospec tubular mortise latch	57 x 26 (forend size)	Fitted 1035 from the head of the leaf	22
Furniture	Aluminium lever type handle	100 x 38 (footprint size)	Fitted appropriate to the latch	23

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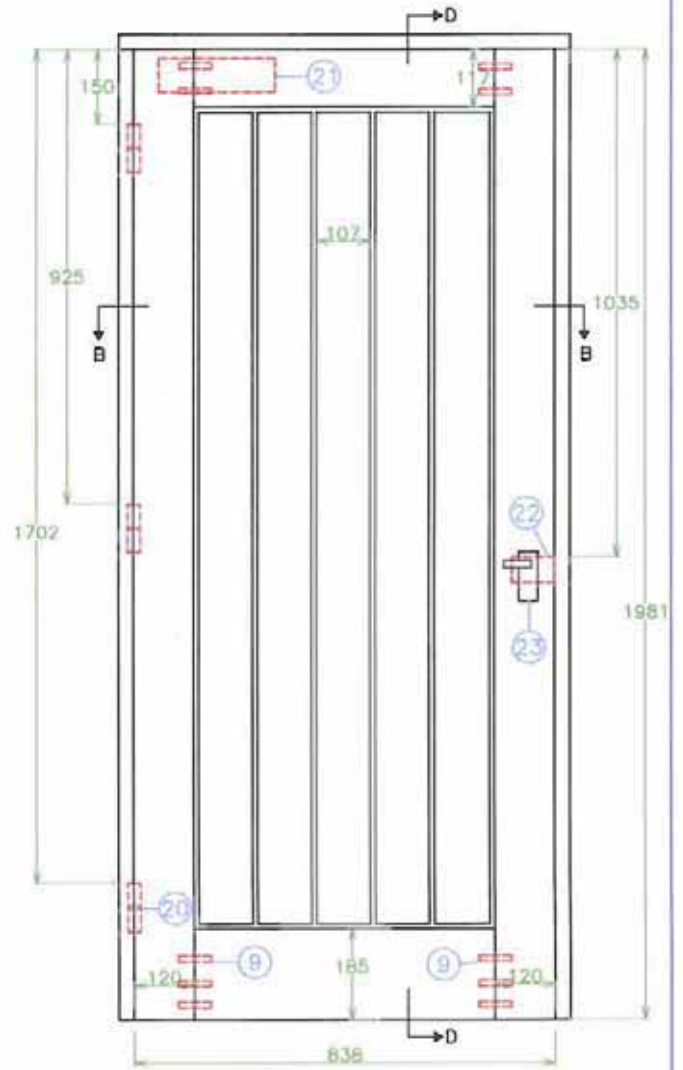
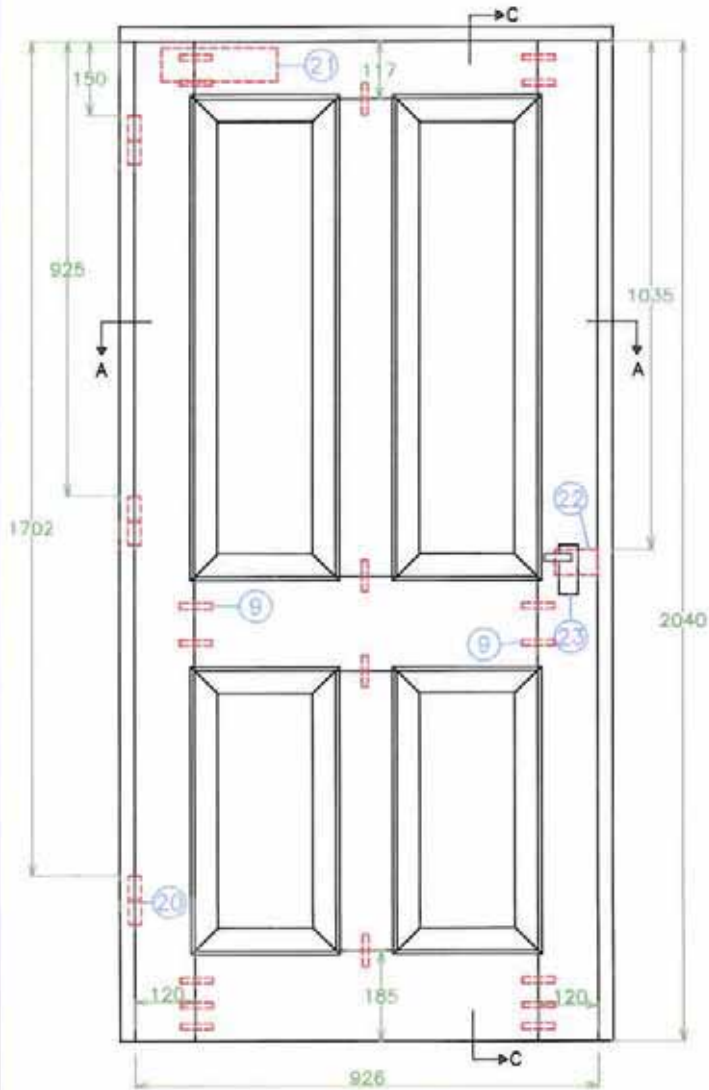


Appendix - figures 1 to 4

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Doorset A

Doorset B

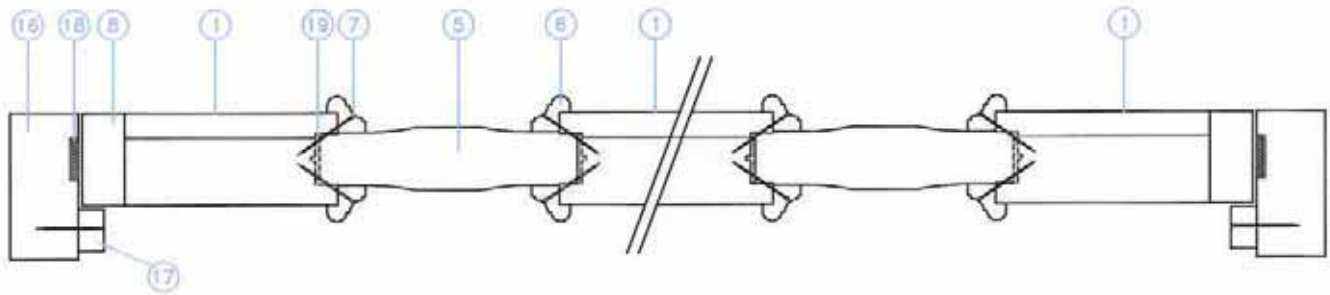


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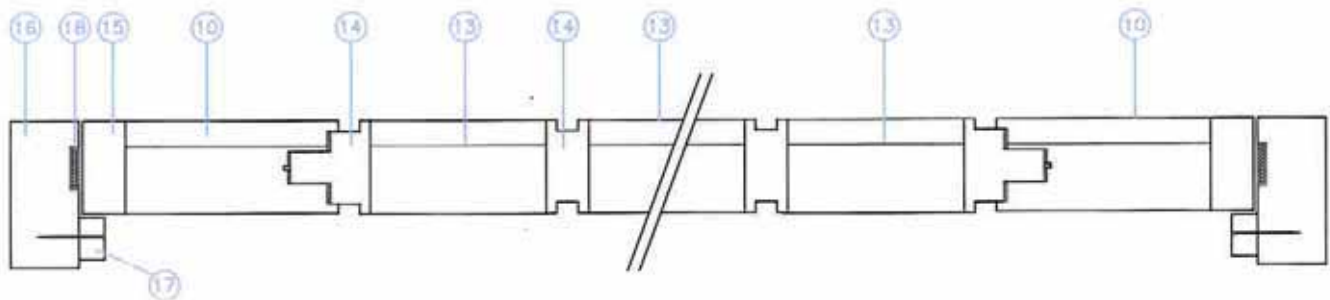
Title: Unexposed face elevation showing hardware positions
 (All dimensions in mm)

Date Drawn 25/11/08	Drawn By ARD	Scale NTS
Project No. Chilt/RF08156		Appendix

Section A-A



Section B-B

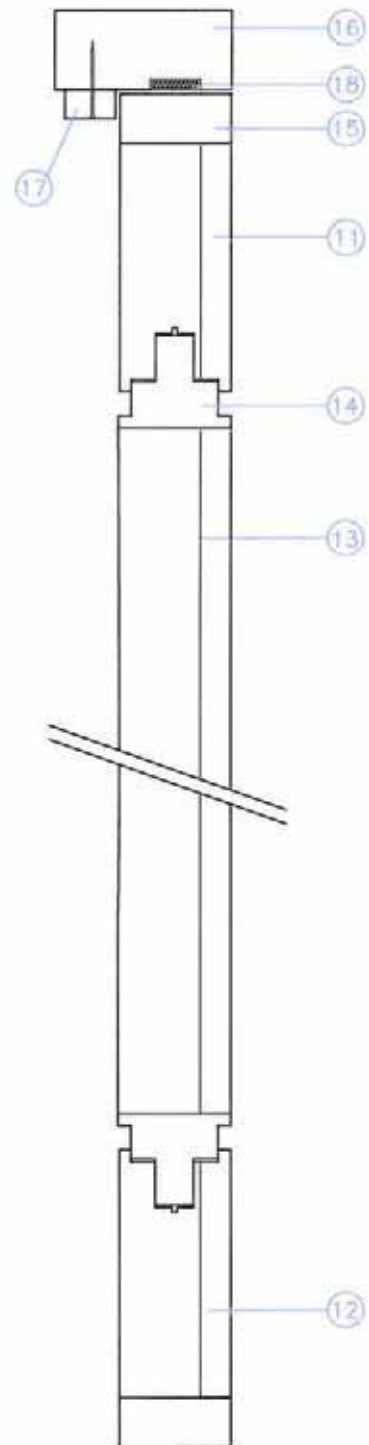
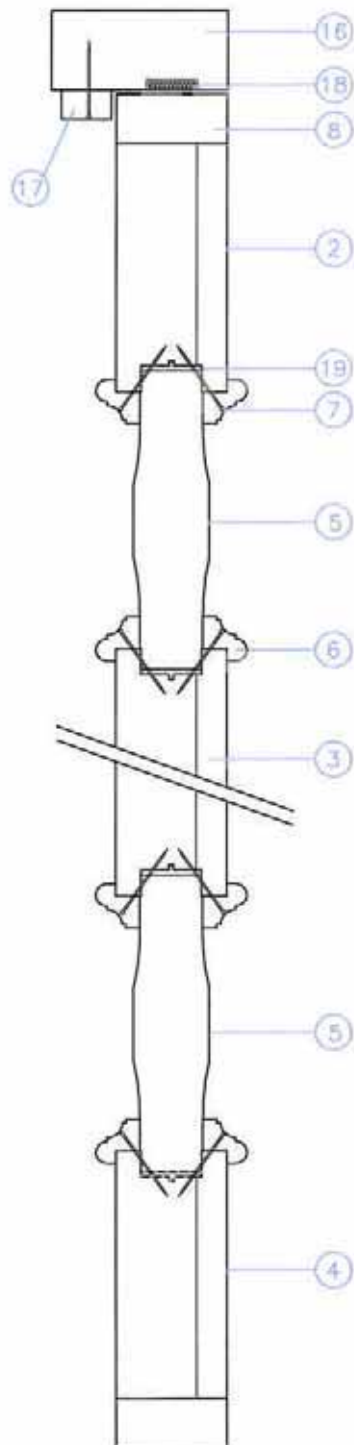


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Title		
Horizontal cross sections (All dimensions in mm)		
Date Drawn	Drawn By	Scale
25/11/08	ARD	NTS
Project No.		Appendix
Chilt/RF08156		

Section C-C

Section D-D



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Title

Vertical cross section

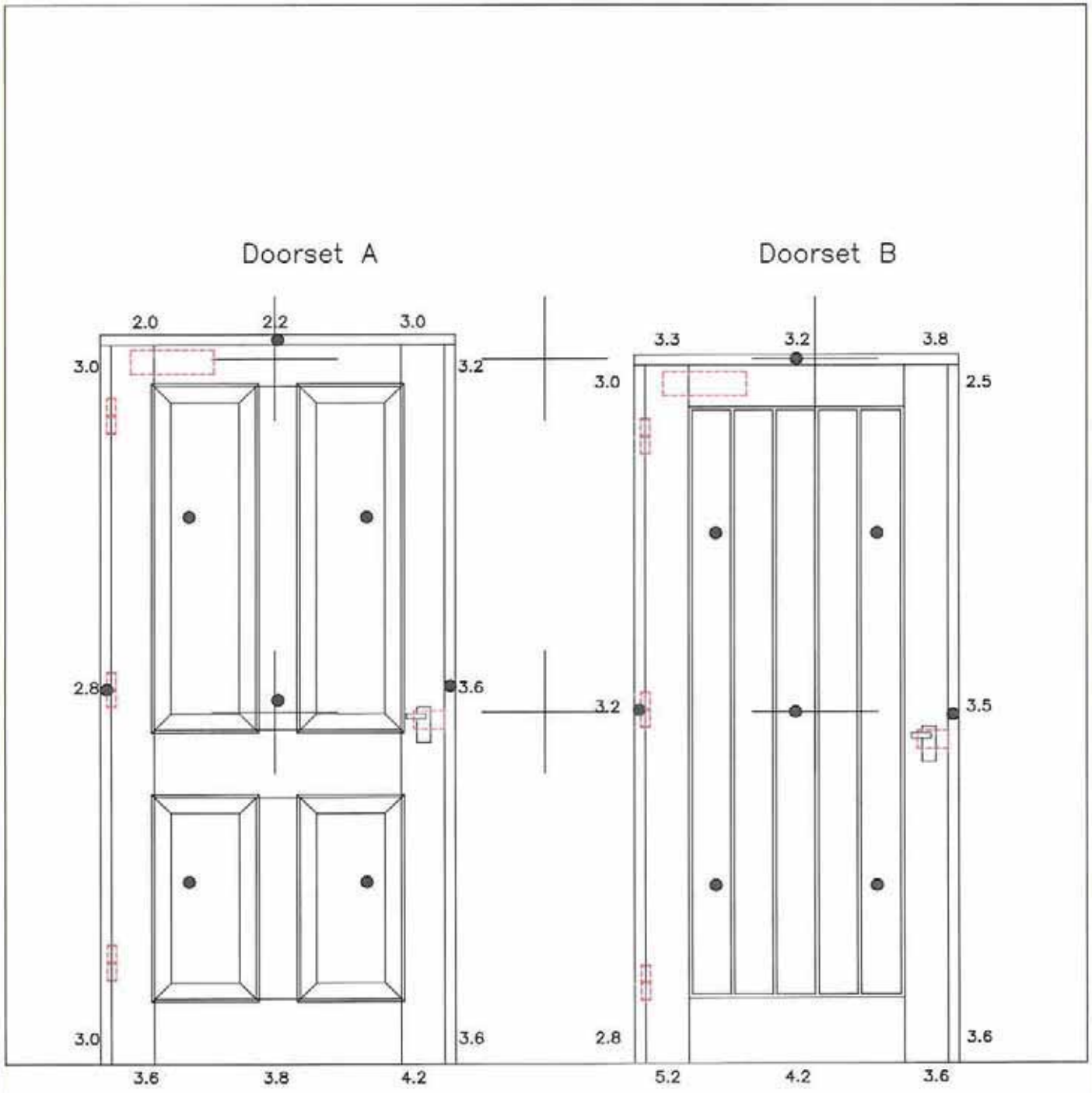
Date Drawn
 25/11/08

Drawn By
 ARD

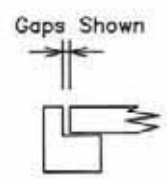
Scale
 NTS

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Appendix



+ : Furnace Thermocouples
 • : Unexposed Face Thermocouples



Viewed From Unexposed Face



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Title Thermocouple positions and door gaps (All dimensions in mm)		
Date Drawn 25/11/08	Drawn By ARD	Scale NTS
Project No. Chilt/RF08156		Appendix