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Tri - Sound

40+ dB
FD-60
EI-60

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S3D - FD60


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TriSound FD60 40dB+

Acoustic Performance Summary —Single Leaf

	Acoustic Seal Set	Threshold required	Intumescant seal(s)			Glass Type	dB (Rw) Rating	Fire Rating	Acoustic Test Reference
			Jambs	Head	M/S				
SLSS Flush	A	none[1]	2no 15x4 Pyroplex[2]	2no 15x4 Pyroplex[2]	n/a	n/a	40dB	FD60	Trada MTZ/F13038 P006
SLSS Flush	A	LAS 4014si	2no LP 1504DS	2no LP 1504DS	n/a	n/a	39dB	FD60	LOR 141020 008
SLSS Glazed	A	none[1]	2no 15x4 Pyroplex[2]	2no 15x4 Pyroplex[2]	n/a	12mm Pyrobelite	40dB	FD60	Trada MTZ/F13038 P014
SLSS Glazed	A	none[1]	2no 15x4 Pyroplex[2]	2no 15x4 Pyroplex[2]	n/a	23mm Pyrostop	40dB	FD60	Trada MTZ/F13038 P009
SLSS Glazed	C	LAS 4014si	2no LP 1504DS	2no LP 1504DS	n/a	15mm Pyrostop	40dB	FD60	LOR 141110 003
SLSS Glazed	C	LAS 4014si	2no LP 1504DS	2no LP 1504DS	n/a	23mm Pyrostop	41dB	FD60	LOR 141113 001
Fire Tested to BSEN 1634-1: 2008 and BSEN 1363-1:1999 Test Sample: glazed pair, leaf size 2100mm x 970/958 rebated m/s For Fire Performance assessed parameters based on IFC Field of Application PAR_13088_01 see Page 2									

Note 1: Assumes hard surface for dropseal to act onto (e.g. tiles/dense carpet). If soft surface then a NOR 600 range flat threshold plate is recommended

Note 2: Pyroplex intumescent seals (as tested) or any PVC-encased graphite based intumescent seal

Acoustic Seal Set	Jambs	Head	Base	M/S
A	NOR710 & NOR720[3]	NOR710 & NOR720[3]	NOR810dB+	n/a
C	LP DS & LAS 1212	LP DS & LAS 1212	LAS 8001si	n/a

Note 3: NOR720 recommended fitted in leaf if intumescent seals fitted to frames

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Acoustic Performance Summary —Double Leaves

	Acoustic Seal Set	Threshold required	Intumescant seal(s)			Glass Type	dB (Rw) Rating	Fire Rating	Acoustic Test Reference
			Jambs	Head	M/S				
DLSS Flush	B	none[1]	2no 15x4 Pyroplex[2]	2no 15x4 Pyroplex[2]	3no 10x4 Pyroplex[2]	n/a	40dB	FD60	Trada MTZ/F13038 P023
DLSS Flush	D	LAS 4510	2no LP 1504 DS	2no LP 1504 DS	3no LP 1004 DS	n/a	39dB	FD60	LOR 140414 003
DLSS Glazed	B	none[1]	2no 15x4 Pyroplex[2]	2no 15x4 Pyroplex[2]	3no 10x4 Pyroplex[2]	12mm Pyrobelite	38dB	FD60	Trada MTZ/F13038 P024
DLSS Glazed	B	none[1]	2no 15x4 Pyroplex[2]	2no 15x4 Pyroplex[2]	3no 10x4 Pyroplex[2]	23mm Pyrostop	40dB	FD60	Trada MTZ/F13038 P017
Fire Tested to BSEN 1634-1: 2008 and BSEN 1363-1:1999 Test Sample: glazed pair, leaf size 2100mm x 970/958 rebated m/s For Fire Performance assessed parameters based on IFC Field of Application PAR_13088_01 see Page 2									

Note 1: Assumes hard surface for dropseal to act onto (e.g. tiles/dense carpet). If soft surface then a NOR 600 range flat threshold plate is recommended

Note 2: Pyroplex intumescent seals (as tested) or any PVC-encased graphite based intumescent seal

Acoustic Seal Set	Jambs	Head	Base	M/S
B	NOR710 & NOR720[3]	NOR710 & NOR720[3]	NOR810dB+	2no NOR720
D	LP DS & LAS 1212	LP DS & LAS 1212	LAS 8001si	LP DS

Note 3: NOR720 recommended fitted in leaf if intumescent seals fitted to frames

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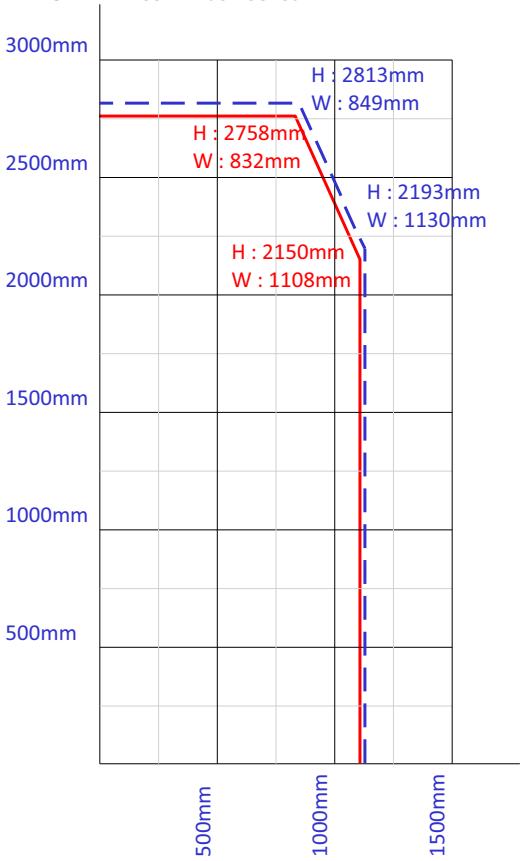
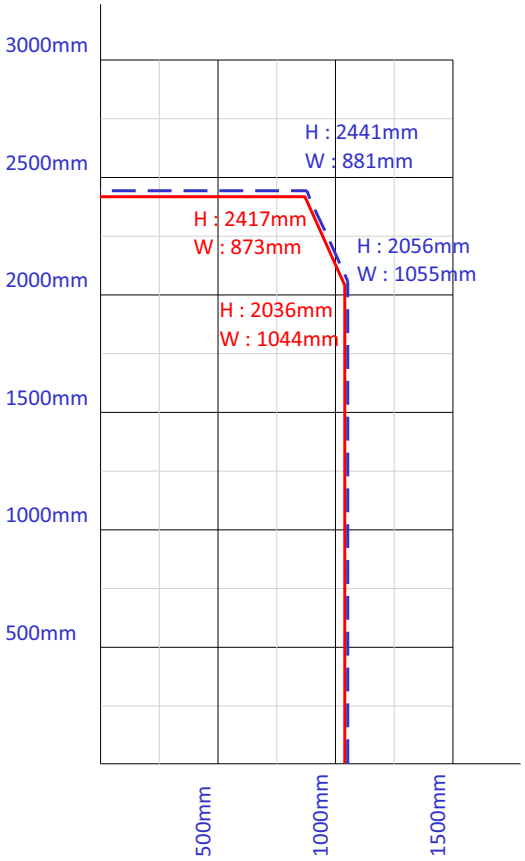
Assessed Fire Performance Parameters

Single Acting Single Leaf
with or without Transommed Overpanel
UNLATCHED FD60 in Red Solid
LATCHED FD60 in Blue Dashed



Single Acting Double Leaf
with or without Transommed Overpanel
UNLATCHED FD60 in Red Solid
LATCHED FD60 in Blue Dashed



Assessed Fire Performance Parameters from IFC Field Of Application PAR_13088_01
Construction and configuration must be as per the detail in this report.

All Intumescent Seals are to be PVC-encased Graphite based

Doorset Config	Jambs	Head	Active Leaf Meeting Stile	Passive Leaf Meeting Stile
Single Leaf	2no 15mmx4mm fitted 10mm apart centrally in Frame reveal	2no 15mmx4mm fitted 10mm apart centrally in Frame reveal	n/a	n/a
Double Leaf Flush Meeting Stiles	2no 15mmx4mm fitted 10mm apart centrally in Frame reveal	2no 15mmx4mm fitted 10mm apart centrally in Frame reveal	2no 10mmx4mm fitted 10mm apart centrally	1no 10mmx4mm fitted centrally
Double Leaf Unequal Rebated Meeting Stiles	2no 15mmx4mm fitted 10mm apart centrally in Frame reveal	2no 15mmx4mm fitted 10mm apart centrally in Frame reveal	2no 10mmx4mm fitted 10mm apart centrally in 39mm rebate	1no 10mmx4mm fitted centrally in 18mm rebate

TriSound FD60 40dB+

Construction details

0.1

Materials

TriSound S3D 45mm thick 3-Ply acoustic core with Cork outer layers (nom 2000x80 0mm)

- **Sapele (min density 630kg/m³ @ 12% mc) 45x 38mm section perimeter timber**
- **2no 6mm High Density MDF (min density 850kg/m³ @ 12% mc) sheets for substrates**
- **Min 20x 12mm steel staples**
- **PVA D3 or UF adhesive (and EPI adhesive if core is to be reduced in width)**
- **Sapele (min density 630Kg/m³ @ 12% mc) 15x2.5mm IF core is to be reduced in width**

Method

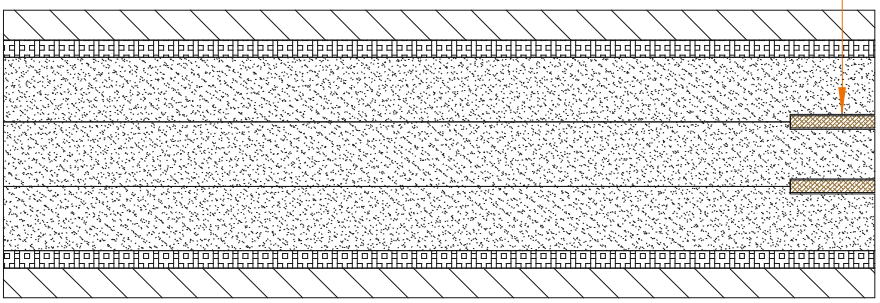
1 Cut Core to internal size

a Core Height: Blank Height - 152mm (see section ii below)
b Core Width: Blank Width - 152mm (see section iii below)
c Where Fire performance is required the following conditions must be adhered to:

i The core must only be used in the 'portrait' orientation

ii When cutting the core to height it is imperative to ensure that the required amount is ONLY trimmed from one end of the core. The cut end MUST be located at the bottom of the leaf. If the top (non-cut) end requires squaring-up this can be achieved by trimming a maximum of 6mm before the remainder is trimmed from the opposite end.

iii When cutting the core to width it is imperative to ensure that the required amount is ONLY trimmed from one edge of the core. Where greater than 6mm is removed from the edge, two grooves 17mm deep by 3mm wide MUST be cut along the CUT edge positioned along the joint between core layers (see diagram below). The grooves are to be filled with 15mmx2.5mm Sapele inserts glued to the cores using an EPI type glue (e.g. Rakolet280 Binder/WS1L hardener from Fuller).



If the non-cut edge requires squaring-up this can be achieved by trimming a maximum of 6mm before the remainder is trimmed from the opposite edge as above.

iv The core is normally supplied at 2000x800mm dimensions. If a wider core size is required this must be custom-manufactured.

v In any event the overall leaf sizes should be limited to the permissible envelope provided with the fire performance evidence.

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Construction details

0.2

Method

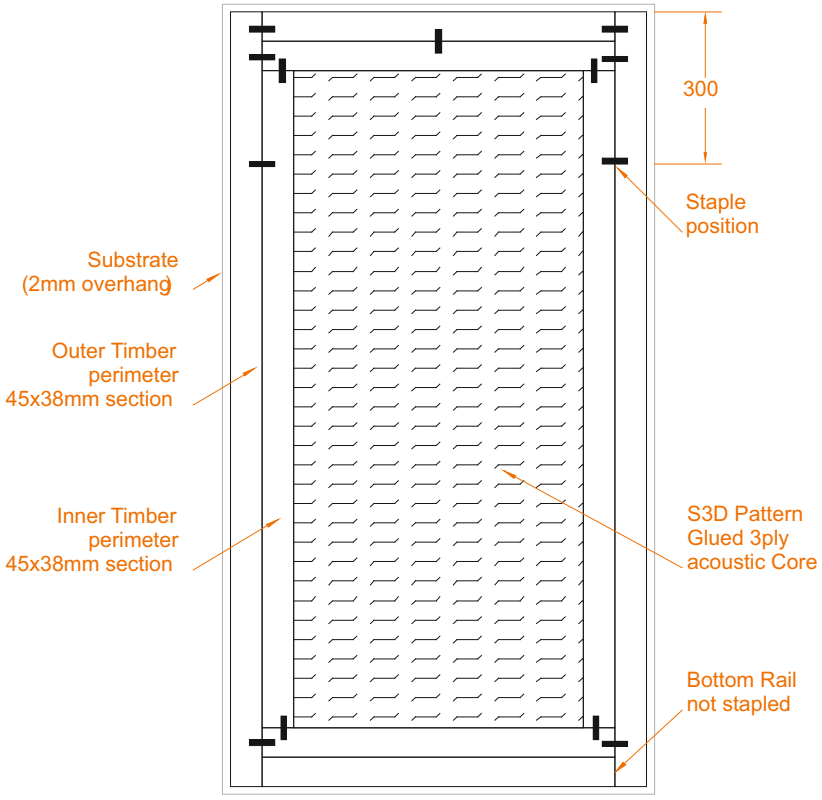
2 Cut Perimeter Timber

a Outer stiles: Blank Height
b Inner stiles: Blank Height - 152mm
c All rails: Blank Width - 76mm

3 Cut substrate

(2no 6mm substrates):
a Height: Blank Height + 4mm
b Width: Blank Width + 4mm

4 Assemble Perimeter using steel staples from both faces, in locations shown below, ensuring tight fit of timber at joints and where butted up.
Gaps of > 0.5mm are unacceptable.
Note that the bottom rail is not stapled.



5 Coat one substrate with PVA-D3 or UF adhesive. Place (adhesive side up) on pressing platform.

6 Place perimeter onto substrate with 2mm overlap all round.

7 Place the bottom rail ensuring tight fit.

8 Place cut-to-size core material into the perimeter ensuring tight fit and that the top end of the core (see section 1-ii) is at the top end of the leaf.

9 Coat second substrate with PVA-D3 or UF adhesive place on top of core/perimeter with 2mm overhang all round.

10 Press in a hot press until adhesive is cured to the handling stage. Suggested time in a hot press would normally be around 20-30 minutes but the time required will vary due to press temperature and other conditions. It is possible to use a cold press although pressing time to reach the handling stage will be significantly increased, e.g. in a 21°C environment the handling stage would normally be reached in around 75 minutes, although again this will vary due to conditions. For more information see the adhesive manufacturers Technical Data Sheet.

11 Once the handling stage of curing is reached the blank can be removed from the press but handling should be kept to a minimum until full cure has been achieved. Time required to achieve full cure varies with temperature and other conditions but as a guide a blank stored in normal conditions should achieve full cure after around 24 hours.

12 Mark ‘Top’ on the top perimeter frame.

13 Once full cure has been reached the blank can be trimmed and lipped.

14 The blank can now be veneered/trimmed/primed/painted according to requirements. See the relevant Technical Manual for more information regarding use of the blank.

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