FORZA FIRE SCREEN
METHOD OF BUILD

Example Solid Timber
Screen SA shown

Frame Joint Options:
1. Half-lap Joint (shown)
2. M & T Open Joint
3. Butt Joint
4. M & T Stub Joint
5. Mitred Joint

See sheet 5 for details

Method of Build:

1. Check the plan layout, elevation type and site location to determine any special site conditions that may affect the installation
2. Survey location, Cut & condition liners, assemble frame & seal all joints using non thermally softening adhesive. Forza have tested Cascamite UF Resin & Gorilla PVA adhesives. Aerodux Resorcinol Resin is a further example.
3. Fix the assembled joints using 75mm screws (32mm post) or 90mm min screws (44mm post). Twice screwed where indicated above.
4. Ensure the frame does not exceed the dimensional specification for the screen type. Where door sets occur, ensure accurate openings for doors.
5. Insert the assembled frame into the location, ensuring the frame is plumb, using an accurate, calibrated laser.
6. Fix the frame to the supporting construction at 600mm centres and 200mm from ends using 75mm min screws (32mm post) or 90mm min screws (44mm post).
7. Use noncombustible packers between the frame and supporting construction at each fixing point to keep the frame straight.
8. The gap between the frame and supporting construction shall be in accordance with Forza sealing options detailed in PDF FZD5108 & FZD5105.
9. Architraves (min thickness 15mm) of the same material as the frame to be mechanically fixed providing 15mm overlap on both frame and supporting construction.
10. Fix the glazing beads using 38mm steel pins / screws (FD30) or 58mm pins / screws (FD60) at 200mm centres (FD30) or 150mm centres (FD60) and 50mm from each corner (30° to glass).
11. Survey accurately for the glass, allowing 4 - 5 mm clearance to all peripheral frameworks. These edge gaps are critical.
12. Clean the frame, then carefully apply the foam gasket to the fixed bead, without stretching the foam.
13. Insert glass panes onto glazing setting blocks at the base, set 100mm from each end and carefully above mullions.
14. Apply foam gasket to rear beads and fix to trap glass. Align rear bead and liner faces. Ensure good pressure to glass.
15. Ensure clearances of 3 - 5mm from glass face to the beads, using designated gasket.
16. Where applicable, hang the door leaf, following the specific manufacturers instructions for the leaf and ironmongery.
17. Refer to page 6 for details regarding supporting construction.
18. For offset or twin glazed configurations the fire glass must be positioned to the furthest side away from the fire attack direction. This direction should be confirmed with building control. See FZD0534.

Note:

1. Do not allow any contact of the glazing's edge with water.
2. Avoid all glass to metal contact.
3. Do not exercise any restraint on the glazing.
4. Do not damage the glazing's edges nor the protection tape.
5. Keep the rebates dry and free from aggressive products (acids, organic solvents, etc.).
6. Do not install in locations where the glass temperature in normal circumstances might exceed 45 C
7. Please see the Forza Cleaning & Maintenance of Glazed Screens document.

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TITLE:	Fire Screen Method of Build	DATE:	30/06/2021
CODE:		DWG NO:	FZD0595
SHEET:	1 of 6		
ISSUE:	1		

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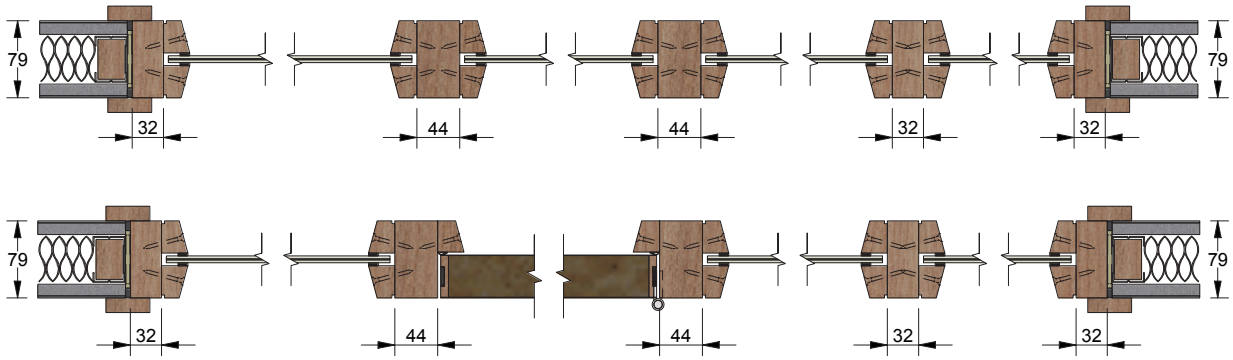
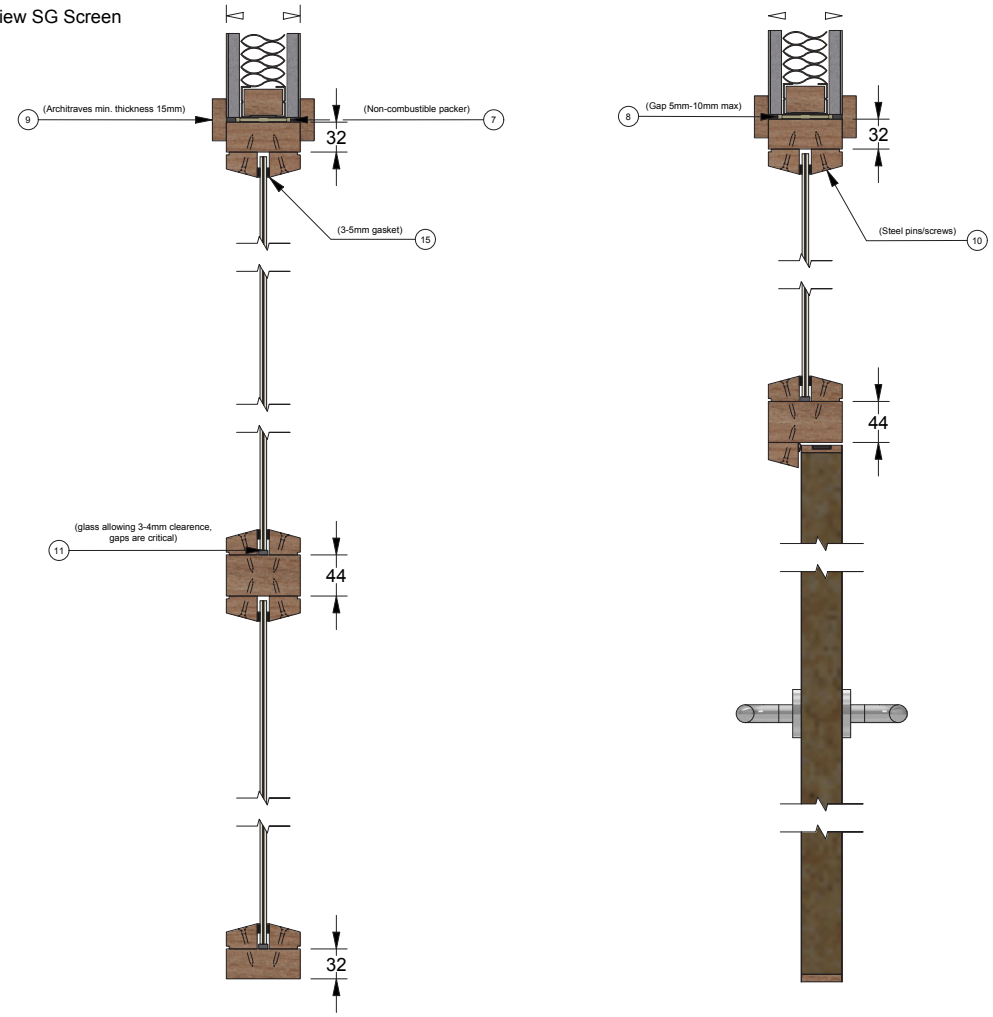
FORZA FIRE SCREEN
METHOD OF BUILD

Top View SG Screen



Side View SG Screen



Note:

1. Do not damage the glazing's edges nor the protection tape.
2. Avoid all glass to metal contact.
3. Do not allow any contact of the glazing's edge with water.
4. Do not damage the glazing's edges nor the protection tape.
5. Keep the rebates dry and free from aggressive products (acids, organic solvents, etc.).
6. Do not install in locations where the glass temperature in normal circumstances might exceed 45C
7. Please see the Forza Cleaning & Maintenance of Glazed Screens document.

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TITLE:	Fire Screen Method of Build	DATE:	30/06/2021
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SHEET:	2 of 6		
ISSUE:	1		

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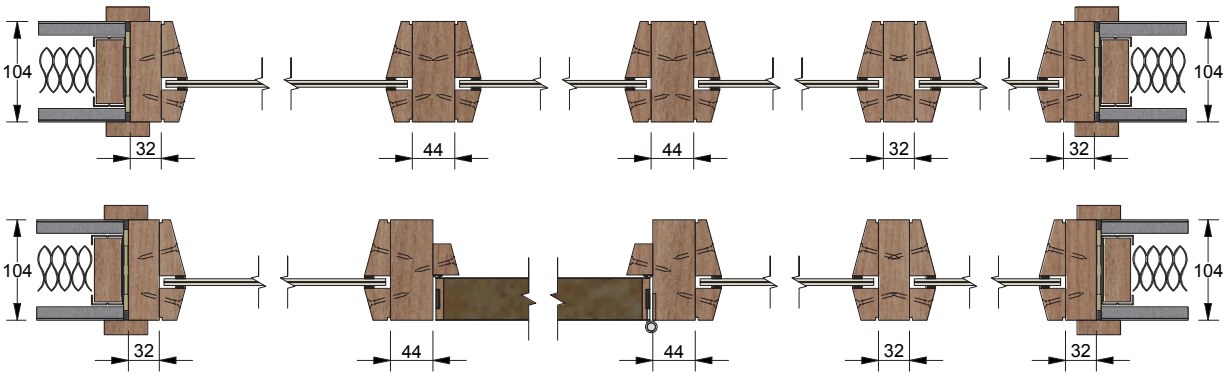
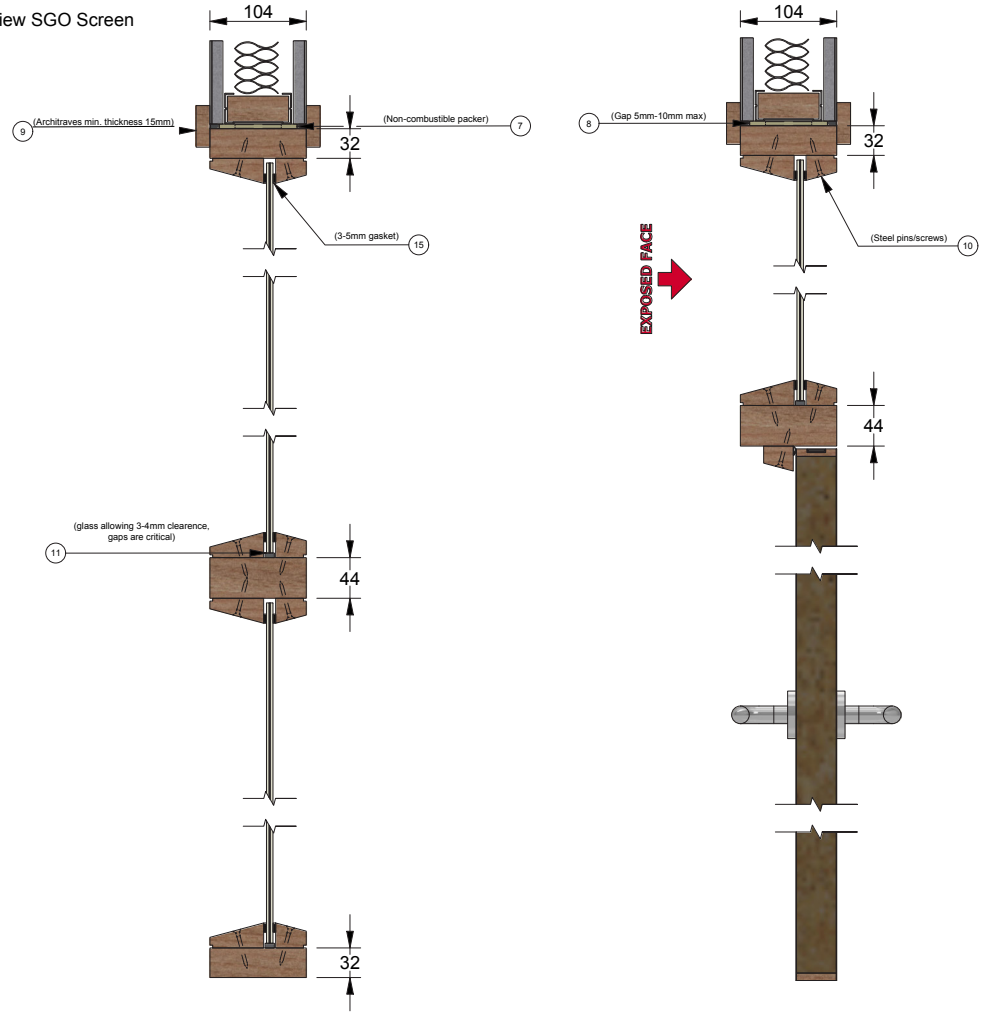
FORZA FIRE SCREEN
METHOD OF BUILD

Top View SGO Screen



Side View SGO Screen



Note:

1. Do not damage the glazing's edges nor the protection tape.
2. Avoid all glass to metal contact.
3. Do not allow any contact of the glazing's edge with water.
4. Do not damage the glazing's edges nor the protection tape.
5. Keep the rebates dry and free from aggressive products (acids, organic solvents, etc.).
6. Do not install in locations where the glass temperature in normal circumstances might exceed 45C
7. Please see the Forza Cleaning & Maintenance of Glazed Screens document.

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TITLE:	Fire Screen Method of Build	DATE:	30/06/2021
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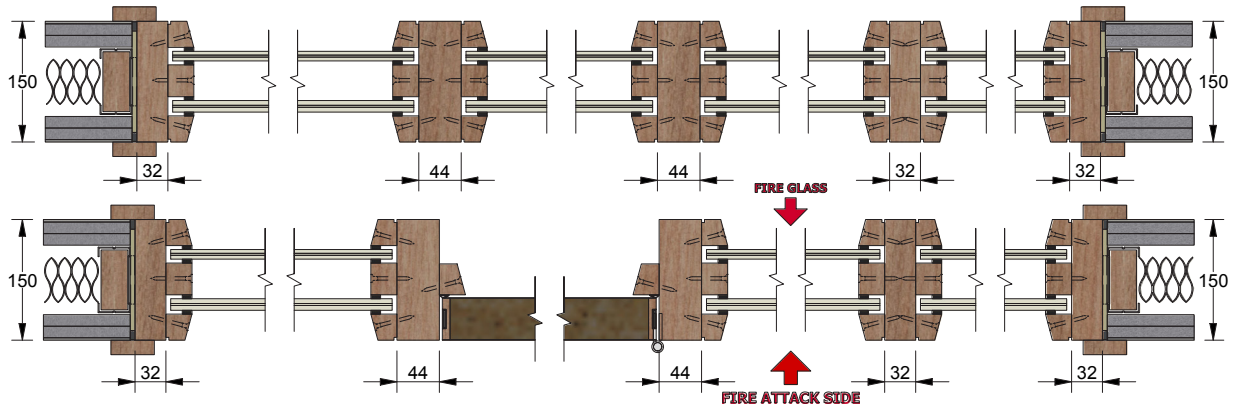
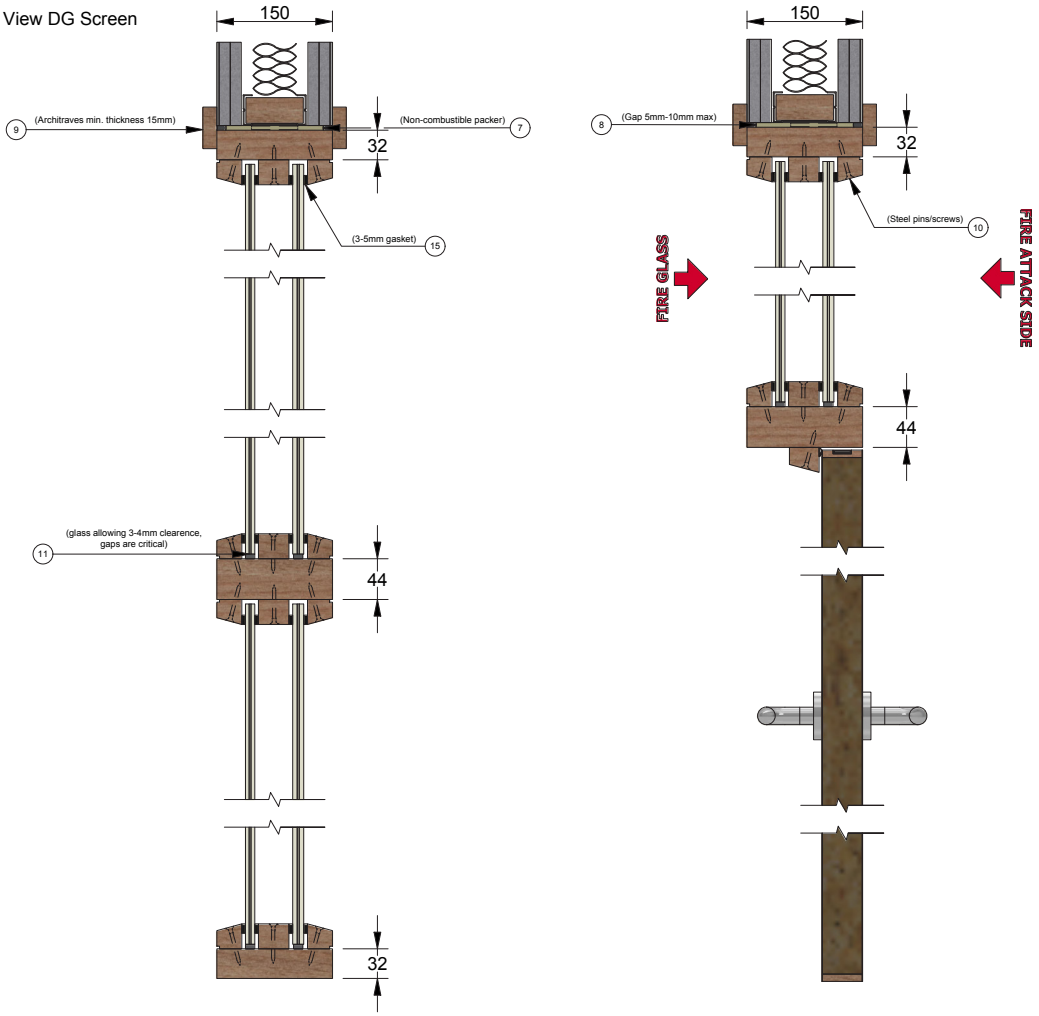
FORZA FIRE SCREEN
METHOD OF BUILD

Top View DG Screen



Side View DG Screen



Note:

1. Do not damage the glazing's edges nor the protection tape.
2. Avoid all glass to metal contact.
3. Do not allow any contact of the glazing's edge with water.
4. Do not damage the glazing's edges nor the protection tape.
5. Keep the rebates dry and free from aggressive products (acids, organic solvents, etc.).
6. Do not install in locations where the glass temperature in normal circumstances might exceed 45C
7. Please see the Forza Cleaning & Maintenance of Glazed Screens document.

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TITLE:	Fire Screen Method of Build	DATE:	30/06/2021
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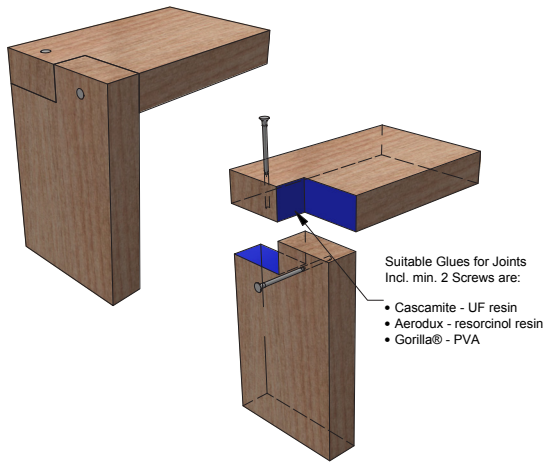
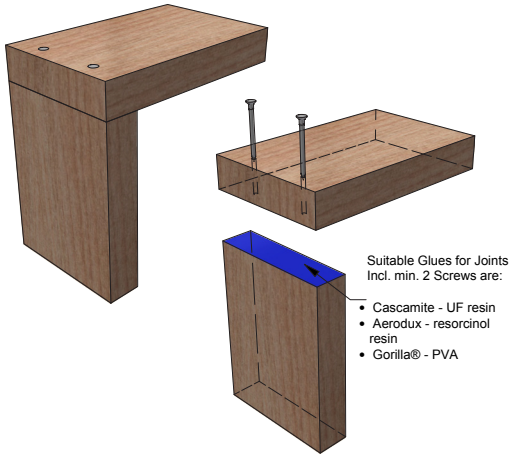
FORZA FIRE SCREEN
METHOD OF BUILD

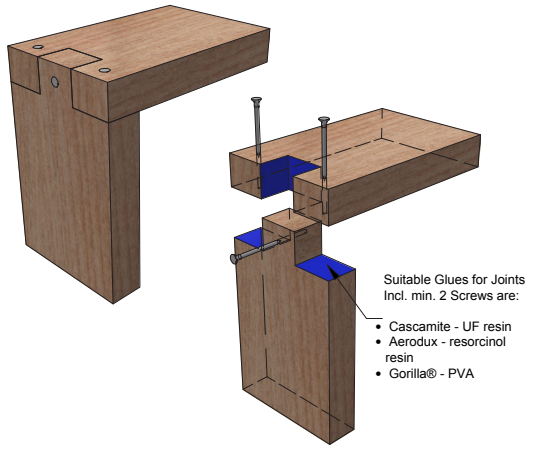
1 - Half-Lap Joint



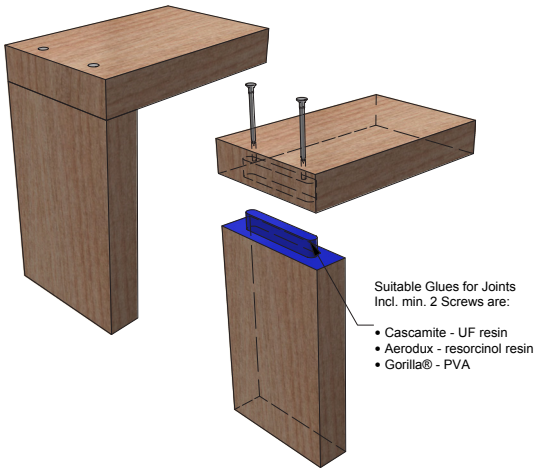
2 - Butt Joint



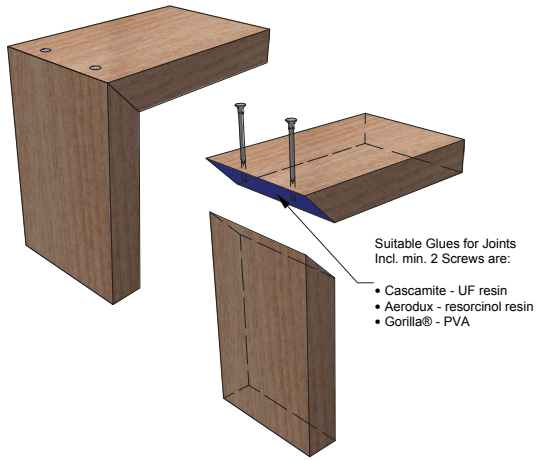
3 - Mortice & Tenon Open Joint



4 - Mortice & Tenon Stub Joint



5 - Mitred Joint



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ISSUE:	1		

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Fire screen supporting construction

The frames must be fixed back to the supporting construction with steel fixings at centres not exceeding 600mm; this applies to all four edges, and 200mm from all corners, and mullions. Screws shall be of sufficient length to penetrate the supporting construction by at least 40mm, and shall be positioned such that they are not exploited by charring of the frame, irrespective of the direction of test exposure; (this may necessitate a twin line of screws). Packers shall be used at all fixing positions, although if combustible packers are employed, these must be protected by a layer of fire stopping (see below), aligned near to each face of the frame.

The supporting construction at all edges, may be timber of steel stud plasterboard clad partition, blockwork, brickwork or concrete walls/soffits. At the horizontal head of the screen where/if the screen meets a suspended ceiling the fixings shall pass through the suspended ceiling and fix to a suitable structural cavity barrier/bulkhead that shall continue in the same plane as that of the screen above the suspended ceiling and achieve at least the same duration of fire resistance as that of the screen. At the bottom edge of the screen a raised floor may form the supporting construction subject to the following limitations;

- The line of fire resistance beneath the raised floor shall continue in the same plane as that of the screen and achieve at least the same duration of fire resistance as that of the screen.
- The construction of the raised floor shall allow robust fixing of the screen along its full length, for the duration of the required period of fire resistance.
- The raised floor shall provide adequate structural support of the screen for the durations of the required period of fire resistance.

All types of supporting construction shall be of a type that has been tested or assessed to provide in excess of 30 or 60 minutes, as appropriate, fire resistance at the required size when incorporating openings. If fitted into timber or steel stud partitions, the method of forming the aperture must be as tested by the partition manufacturer. Horizontal fire seal edge details at the junction of a suspended ceiling/cavity barrier bulkhead must be as tested by the ceiling/cavity barrier manufacturer.

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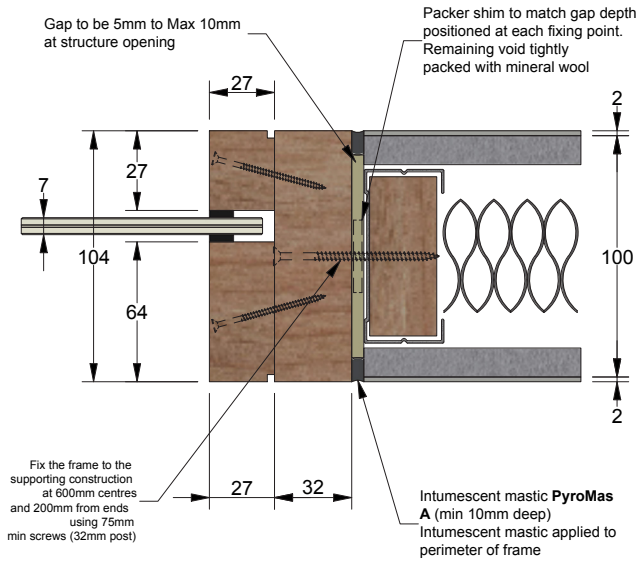
FORZA FD30 FIRE SCREEN FRAME TO SUPPORTING CONSTRUCTION GAP OPTIONS

FD30 Perimeter intumescent mastic

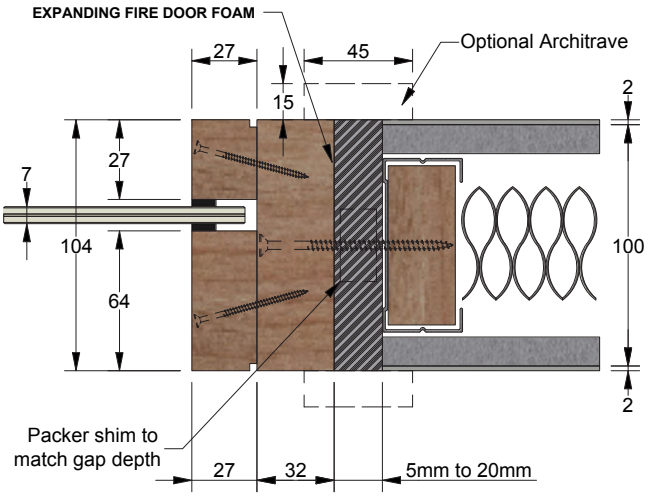
*Gap 5mm to 10mm



* **Architraves Optional** when using **Pyromas A** intumescent mastic and Hardwood / Softwood & MDF.

FD30 Fire Screen Expanding Foam

*Gap 5mm to 20mm

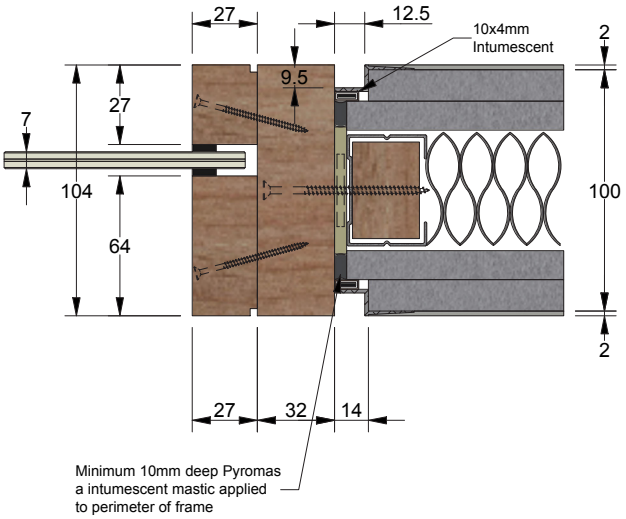


***Forza Recommended Foams:**
Fire And Acoustic Seals Ltd. > Fire Door Foam: Hardwood With or Without Architraves. (MDF with 19mm Architraves)
Sealed Tight Solutions Ltd. > ST99 FR Expanding Foam: Only With Architraves. (Max 10 mm Gap)

Other manufacturers foams that have been tested in accordance with BS476-20 or BS EN 1366-4 in suitable supporting constructions with or without architraves may be suitable. (contact the foam supplier / manufacturer for evidence)

Aluminium Style Trim Shadow Gap FD30

*Gap to 5mm



The interface between the horizontal base of the fire screen frame and the supporting finished floor level to be intimate, secure with no gaps thus allowing for the omission at the base of a fire sealing system.

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TITLE:	Forza DF30 Fire Screen Frame To Supporting Construction Gap Options	DATE:	02/07/2021
CODE:		DWG NO:	FZD5108
SHEET:	1 of 1		
ISSUE:	1		

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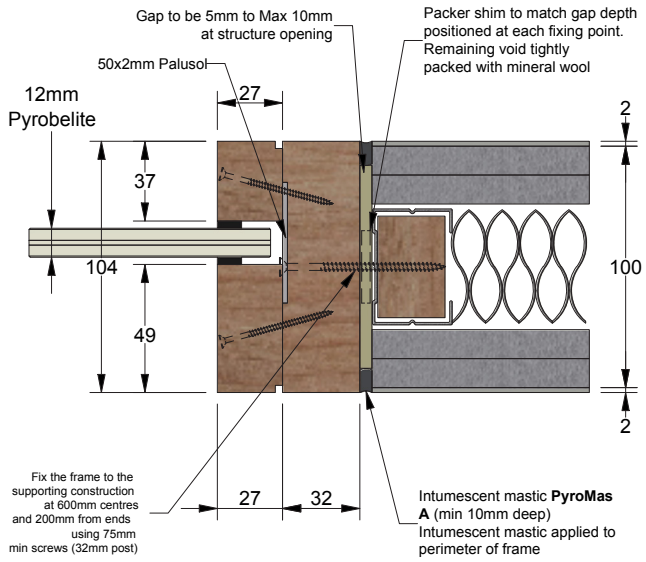
FORZA FD60 FIRE SCREEN FRAME TO SUPPORTING CONSTRUCTION GAP OPTIONS

FD60 Perimeter intumescent mastic

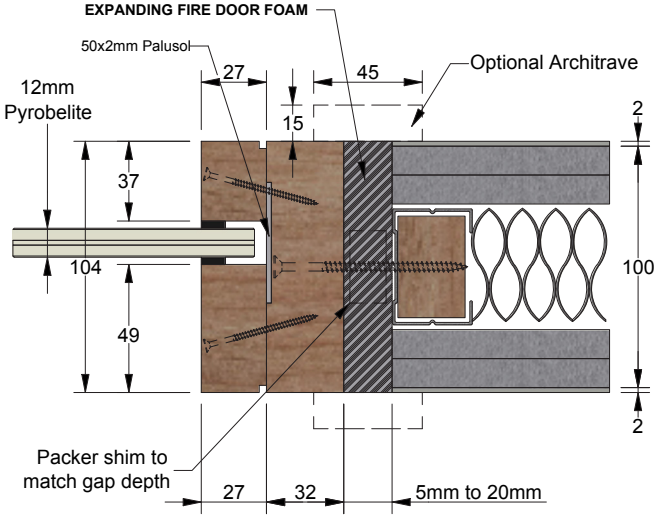
*Gap 5mm to 10mm



* **Architraves Optional** when using **Pyromas A** intumescent mastic and Hardwood / Softwood & MDF.

FD60 Fire Screen Expanding Foam

*Gap 5mm to 20mm

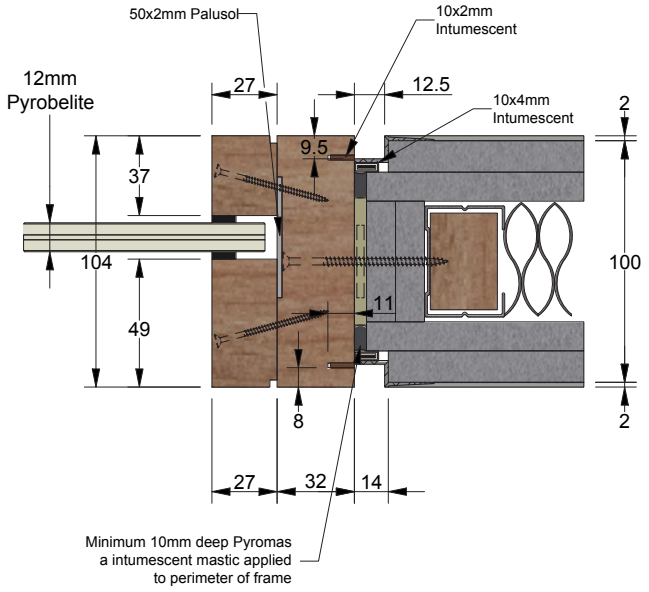


***Forza Recommended Foams:**
Fire And Acoustic Seals Ltd. > Fire Door Foam: Hardwood With or Without Architraves. (MDF with 19mm Architraves)
Sealed Tight Solutions Ltd. > ST99 FR Expanding Foam: Only With Architraves. (Max 10 mm Gap)

Other manufacturers foams that have been tested in accordance with BS476-20 or BS EN 1366-4 in suitable supporting constructions with or without architraves may be suitable. (contact the foam supplier / manufacturer for evidence)

Aluminium Style Trim Shadow Gap FD60

*Gap to 5mm



The interface between the horizontal base of the fire screen frame and the supporting finished floor level to be intimate, secure with no gaps thus allowing for the omission at the base of a fire sealing system.

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TITLE:	Forza DF60 Fire Screen Frame To Supporting Construction Gap Options	DATE:	02/07/2021
CODE:		DWG NO:	FZD5105
SHEET:	1 of 1		
ISSUE:	1		

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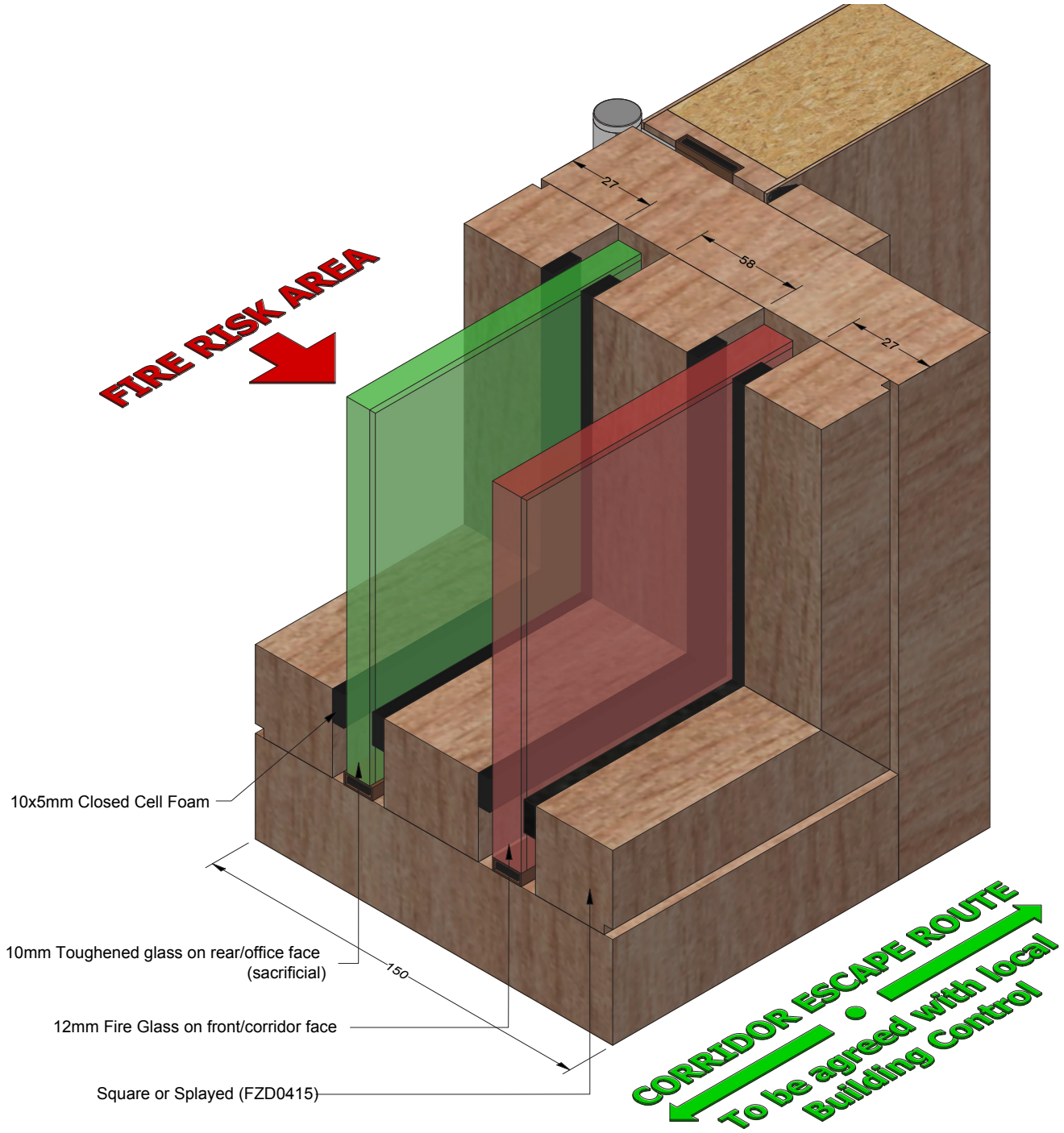
FORZA FIRESCREENS/FANLIGHT/SIDELIGHT
FD30 DOUBLE GLAZE FIREGLASS POSITION



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TITLE	FORZA FIRESCREENS/ FANLIGHT/SIDELIGHT
CODE	Typical TIMBER Stud FD60
SHEET	1 of 2
DATE	19/07/2021
ISSUE	4
DWG No.	FZD0534

DOOR	Timber Particle Board
LINER	Solid Timber
STOP/ARCHITRAVE	Solid Timber
	10x5mm Closed Cell Foam
	10x4mm Intumescent

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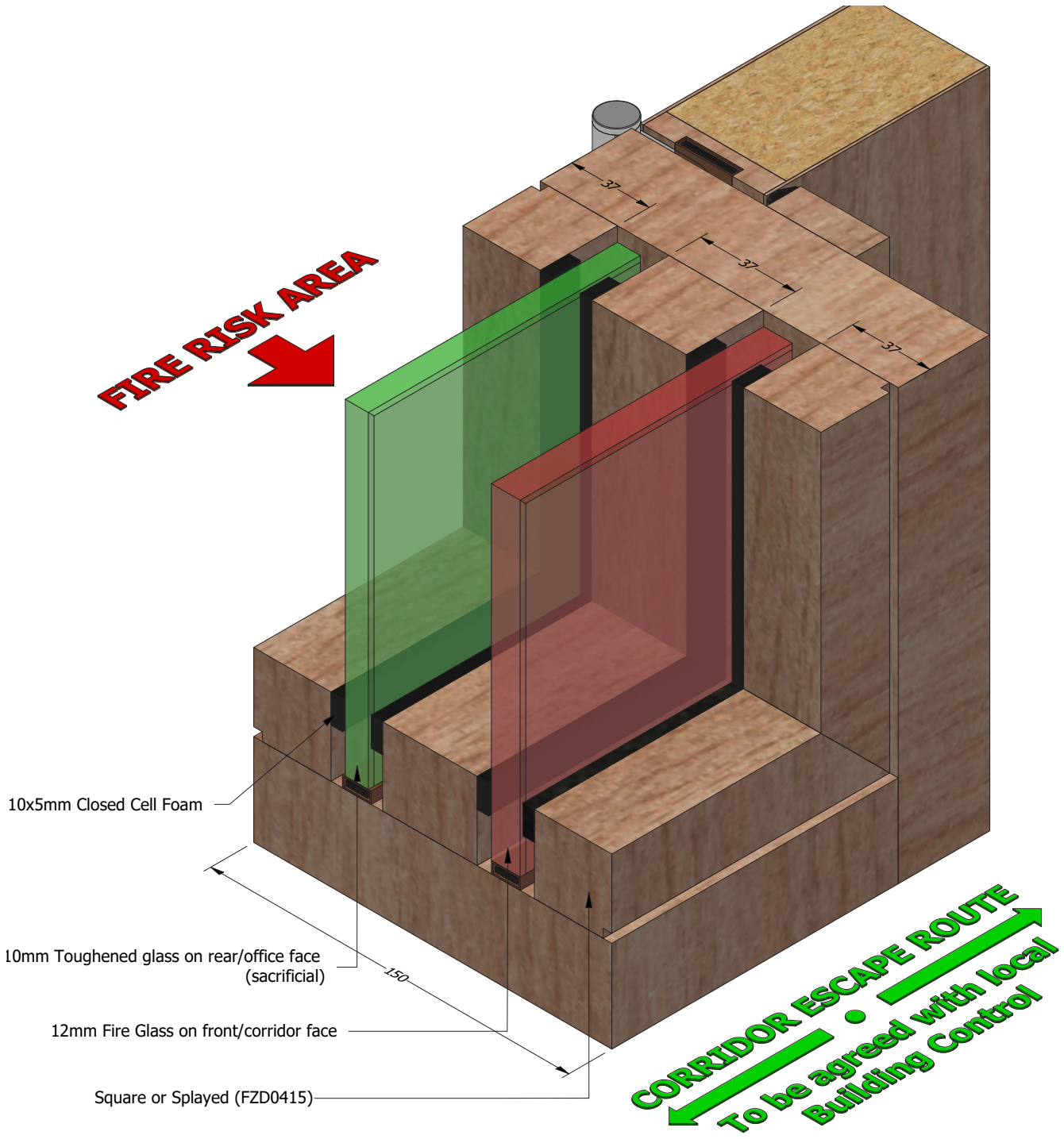
FORZA FIRESCREENS/FANLIGHT/SIDELIGHT
FD60 DOUBLE GLAZE FIREGLASS POSITION



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TITLE	FORZA FIRESCREENS/ FANLIGHT/SIDELIGHT
CODE	Typical TIMBER Stud FD60
SHEET	1 of 2
DATE	19/07/2021
ISSUE	4
DWG No.	FZD0534/1

DOOR	Timber Particle Board
LINER	Solid Timber
STOP/ARCHITRAVE	Solid Timber
	10x5mm Closed Cell Foam
	10x4mm Intumescent

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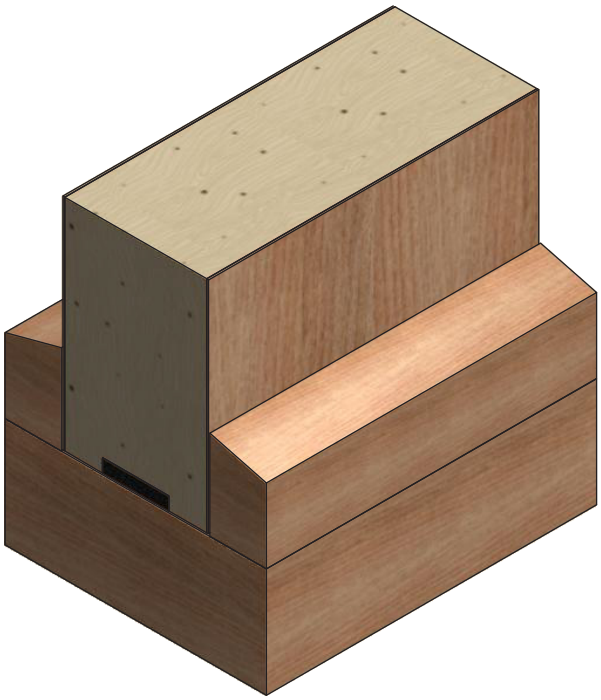
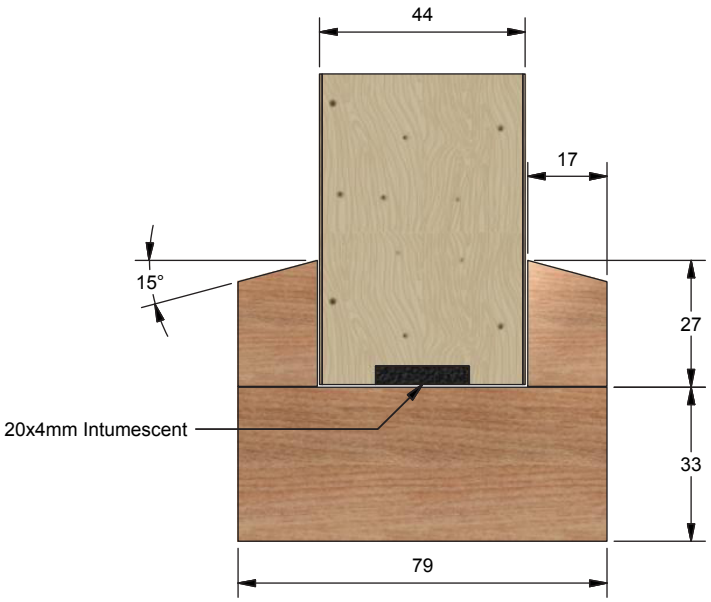
SOLID PANEL FD60
DADO/TRANSOM

Isometric



Dimensions



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TITLE	DADO/TRANSOM
CODE	SOLID PANEL FD30
SHEET	1 of 1
DATE	10/06/2012
ISSUE	1
DWG No.	FZD0427

DOOR	
LINER	Solid Timber
STOP/ARCHITRAVE	Solid Timber

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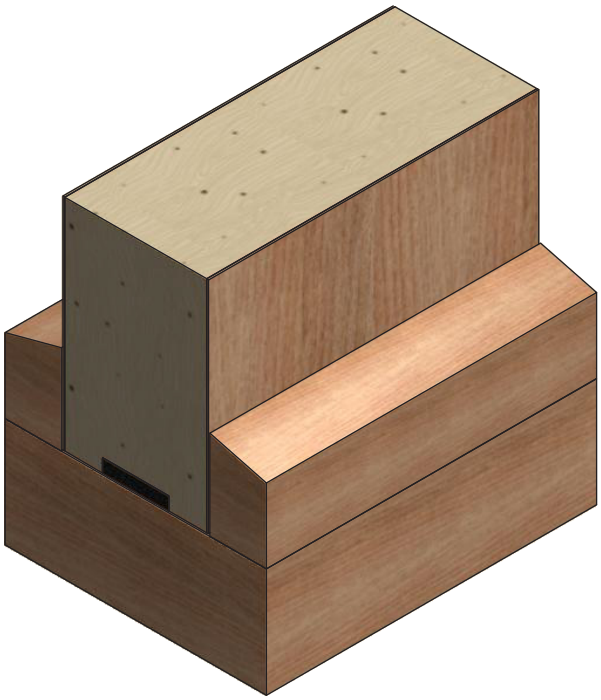
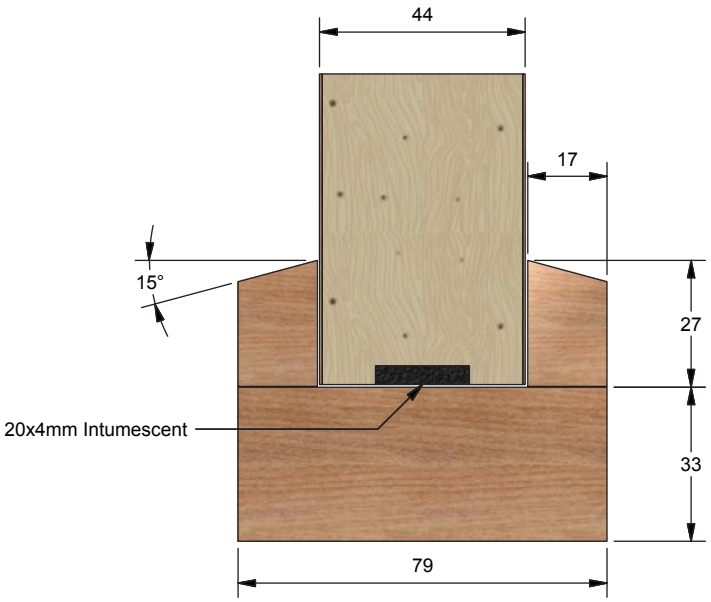
SOLID PANEL FD60
DADO/TRANSOM

Isometric



Dimensions



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TITLE	DADO/TRANSOM
CODE	SOLID PANEL FD30
SHEET	1 of 1
DATE	10/06/2012
ISSUE	1
DWG No.	FZD0428

DOOR	
LINER	Solid Timber
STOP/ARCHITRAVE	Solid Timber

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