FIG 1: FRONT DOOR PROFILE

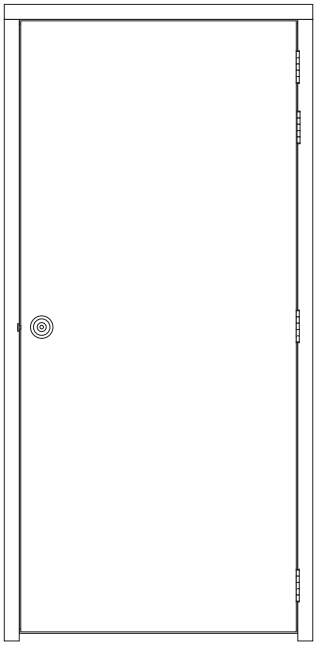


FIG 2: SIDE DOOR PROFILE

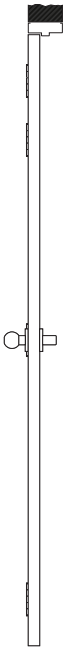


FIG 3: BACK DOOR PROFILE

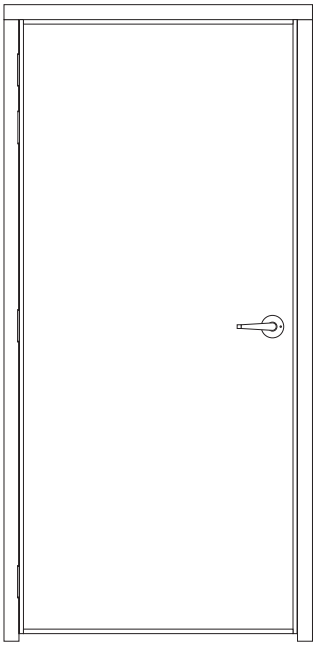


FIG 5: DOOR CUTOUT

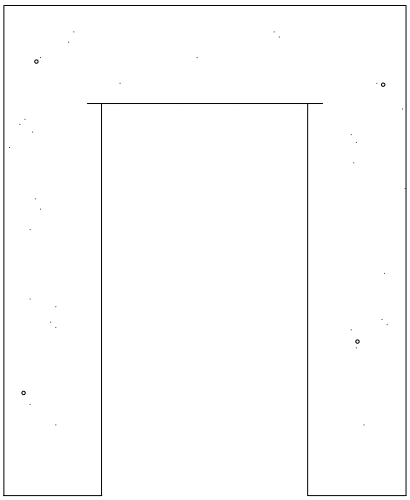


FIG 6: HEAD & SILL

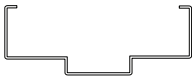
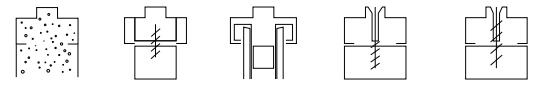


FIG 7: FIXING OPTIONS



The Sentry® 750.80 is an outward opening, door and jamb set.

The door jamb has a three-sided profile made of multi-folded, pressed and welded 1.5mm steel. It can be Zincanneal (raw) or powder coated to match the Colorbond of the door leaf, or to another colour of your choice.

The door and jamb are fastened together with heavy-duty metal screws into 4 (four) 100×100×2.5mm stainless steel butt hinges, strategically spaced to optimise support for the door leaf.

The door is supplied with standard lock preparation of 54mm and 70mm back set.

AVAILABLE SIZES:

» 2040mm (h) x 820mm (w)
» 2040mm (h) x 920mm (w)
» 2040mm (h) x 1100mm (w)

APPLICATIONS:

Steel, timber stud construction with plasterboard, brickwork and pre-cast concrete structures – industrial and commercial buildings.

FRAME FINISHES:

» Zincanneal® Steel
» Galvanised Steel
» Powdercoated
» Sentry Protect™

DOOR FINISHES:

» Exterior grade plywood
» MDF (60m only)

RATINGS:

» 60 minutes
» 120 minutes
» 180 minutes
» 240 minutes

SUPPLIED IN SET

» Door and Jamb
» Lockset
» Cardboard packers between door and jamb

Correct as at 07/08/24

INSTALLATION OPTIONS

The Sentry® 750.80 can be installed in six(check what fixings can be offered) different ways. Tell us your wall application and preferred installation method when you order. Larnec can customise the set to serve your preference.

To install into a stud frame prior to plastering or wall lining, use the Fast Fix Brackets (see B1), Stud Clips (see B2).

To install the set into steel studs, brickwork or concrete panels, where the wall thickness is equal to or greater than the depth of the door jamb, you can use Tube Fix installation (see B3 and B4).

Alternatively, the 750.80 can be precast into concrete wall panels, requiring no extra fixings.

A. PRODUCT CHECK AND SITE

Note: Keep the door packers in place until the door and jamb set is fully fitted.

Required: Cutting tool and framing materials for structure cladding.

1. Check your door and jamb set for quality and craftsmanship.
   - If there is damage or fault, contact your supplier immediately.
   - **Note:** if you proceed to install a door, the opportunity to claim a replacement on the basis of damage or fault will be limited.
2. Decide where your door goes.
   - All corners of the cut must be safely in the valley of the cladding profile.
   - Ensure there is no structural steel or timber behind the planned cut area.
3. Cut the required opening out of the cladding.
   - The required size depends on the size of the door to be installed.

	700.80.920
DOOR SIZE	2040mm (h) x 920mm (w)
REQ. OPENING	2108mm (h) x 1008mm (w)
	750.80.1100
DOOR SIZE	2040mm (h) x 1100mm (w)
REQ. OPENING	2096mm (h) x 1005mm (w)

4. Frame out your door opening with the materials recommended for your shed/ garage.

B1. FAST FIX BRACKET INSTALLATION

Fast Fix bracket installation is only appropriate if installing into wall studs prior to plastering or wall lining.

Required: Spirit level, impact driver, eight (8) or sixteen (16) screws of 10 gauge or larger. Screws must be long enough to fix through the stud into the fast fix brackets.

Note: Keep the door packers in place until the door and jamb set is fully fitted.

1. Construct the stud frame to accommodate your door and jamb set. (See Section A.)
2. Lift the door into place:
   - Use two (2) people to lift.
   - Check that hinges are set to swing outwards.
   - Ensure suitable gap around perimeter of the door set, to allow plaster or wall lining to slide behind.
3. Mark screw positions on the stud frame, in line with the Fast Fix brackets welded to the edges of the door jamb.
4. Fix the hinge-side of the jamb to the stud:
   - Standing in the unlined wall, screw through the stud frame, and into the Fast Fix brackets.
   - Put one or two screws into each of the four (4) fast fix brackets on the hinge side of the jamb.
5. Fix the latch-side of the jamb to the frame:
   - Follow the same process for the hinge-side screws.
   - As the latch side is tightened, a gap between door and jamb will gradually increase.
   - Take it easy and check the gap regularly. Stop tightening when the gap reaches 3mm max.

B2. TUBE FIX INTO STEEL STUDS

Tube fix installation can be used to install the Sentry 750.80 into steel studs. Larnec builds each set to spec, so that the throat of the door frame matches the thickness of the wall, as must be noted on the profile order sheet.

Required: Spirit level, impact driver, eight (8) or more 10mm masonry fixings at maximum 450mm centres around head and stiles.

(**Note:** long-threaded screws are very important. Threaded up to the base of the countersunk screw head, they can properly hold into studs.)

Note: Keep the door packers in place until the door and jamb set is fully fitted.

1. Check the aperture in the wall is the correct size to accommodate your door and jamb set (See Section A, page 2).
2. Lift the door into place:
   - Use two (2) people to lift.
   - Check that hinges are set to swing outwards.
   - Hold so the jamb sits flush with both sides of the wall.
3. If using self-drilling screws, go to step 5.
4. If using screws that are not self-drilling:
   - Mark tube positions on the wall:
   - There are four tubes welded to each side of the jamb. They will guide the long-threaded screws straight into place. Mark the wall where each one is set against it.
   - Return the door set to a resting position.
   - Using a metal drill bit, drill into the steel stud at the marked tube positions, so that the long-threaded screws can fully fasten.
   - Lift the door into place, again (two people to lift, hinges set to swing outwards, tubes aligned with the pre-drilled holes).

Correct as at 07/08/24

5. Fully fix the hinge-side of the jamb to the stud:
   - Five (5) or more countersunk holes (10mm) are pre-drilled through the doorstop of the inner jamb.
   - Standing inside the door opening, insert a 10mm masonry fixing into the uppermost hole, 150mm from the top of the hinge-side. Screw it tight into the wall.
   - Insert and tighten a screw into the lowermost hole, 150mm from the bottom of the hinge-side.
   - Insert and tighten screws in both middle holes on the hinge-side.
6. Fix the latch-side of the jamb to the wall:
   - Follow the same process as for the hinge-side screws.
   - As the latch-side is tightened, a gap between door and jamb will gradually increase.
   - Take it easy and check the gap regularly.
   - Stop tightening as when the gap reaches 3mm max.

B3. TUBE FIX INTO CONCRETE

Tube fix installation can be used to install the Sentry 750.80 into brickwork or concrete panels. Larnec builds each set to spec, so that the throat of the door frame matches the thickness of the wall, as must be noted on the profile order sheet.

Required: Spirit level, impact driver, eight (8) 10mm masonry fixings of at least 100mm length.

Note: Keep the door packers in place until the door and jamb set is fully fitted.

1. Check the aperture in the wall is the correct size to accommodate your door and jamb set (See Section A, page 2).
2. Lift the door into place:
   - Use two (2) people to lift.
   - Check that hinges are set to swing outwards.
   - Hold so the jamb sits flush with both sides of the wall.
3. Mark tube positions on the wall:
   - There are five or more tubes welded to each side of the jamb. They will guide the bolts straight. Mark the wall where each one is set against it.
   - Return the door set to a resting position.
4. Using a concrete bit, drill into the wall at the marked tube positions to a depth of at least 100mm, so that the bolts can fully fasten.
5. Lift the door into place, again:
   - Use two (2) people to lift.
   - Check that hinges are set to swing outwards.
   - Align the tubes with the holes you've pre-drilled into the wall.
6. Fully fix the hinge-side of the jamb to the wall:
   - Five (5) or more countersunk holes (10mm) are predrilled through the doorstop of the inner jamb.
   - Standing inside the door opening, insert a 10mm masonry fixing at maximum 450mm centres around head and stiles into the uppermost hole, 150mm from the top of the hinge-side. Screw it tight into the wall.
   - Insert and tighten a bolt into the lowermost hole, 150mm from the bottom of the hinge-side.
   - Insert and tighten bolts in both middle holes on the hinge-side.
7. Fix the latch-side of the jamb to the wall:
   - Follow the same process as for the hinge-side bolts.
   - As the latch-side is tightened, a gap between door and jamb will gradually increase.
   - Take it easy and check the gap regularly.
   - Stop tightening when the gap reaches 3mm max.

C. AFTER DOOR INSTALLATION

Required: Impact driver.

After the door is installed:

1. Remove packers and bottom spreader-bar.
2. Peel back protective covering surrounding lock prep.
3. Fit the supplied lockset.
4. Remove the protective covering from surfaces. (The longer it remains on, the harder it may be to remove cleanly.)

D. AFTER CARE

To get the most out of your investment, cleaning should occur:

- In rural or normal urban environments, every six (6) months.
- In areas of high pollution, such as industrial areas or coastal environments, every three (3) months.
- In particularly hazardous or corrosive environments such as beachfronts, severe marine environments, areas of high industrial pollution, monthly.

Hinges, Locks, and furniture should also be regularly inspected and cleaned in accordance with the above schedule.

DO NOT use harsh solvents, abrasive cleaners (turps, petrol, kerosene, paint thinners) or scourers on any products. Carry out cleaning in shade and during cooler temperatures using a soft cloth and gentle wiping only.

We recommend that your locks only be serviced by a qualified locksmith.

Correct as at 07/08/24

PRODUCT FILE CODE	DOOR/VENT SIZE HxWxD	DOOR/VENT THICKNESS (MM)	OVERALL PRODUCT INSERT (HxW)	OVERALL EXT. ARCHITRAVE (HxW)	OVERALL INT. ARCHITRAVE (HxW)	REVEAL FOR DOOR (HxW)	WALL OPENING SIZE (HxW)	CLEAR OPENING REQUIRED (HxW)	DOOR OPENING ANGLE	WIND RATED TO REGION
750.80.1100 (NO SEALS)	2040 x 1100 x 45	45	2091 x 1181	2091 x 1181	2091 x 1181	2053 x 1105	2096 x 1185	2028 x 1055	180°	-
750.80.920 (NO SEALS)	2040 x 920 x 45	45	2091 x 1001	2091 x 1001	2091 x 1001	2053 x 925	2096 x 1005	2028 x 875	180°	-
750.80.920 W/SEAL IS7025si + FDBU20	2040 x 920 x 45	45	2096 x 1001	2096 x 1001	2096 x 1001	2058 x 925	2101 x 1005	2025.5 x 860	180°	-
750.80.920 (NO SEALS)	2040 x 920 x 45	45	2091 x 1001	2091 x 1001	2091 x 1001	2053 x 925	2096 x 1005	2028 x 875	180°	-
750.80.820D W/SEAL RP120 + FDBU20 (with T-Bar meeting stile)	2040 x 820 x 45(2)	45	2096 x 1732	2096 x 1732	2096 x 1732	2058 x 1656	2101 x 1736	2033x 1606	180°	-
750.80.920D (NO SEALS) (with T-Bar meeting stile)	2040 x 920 x 45(2)	45	2091 x 1932	2091 x 1932	2091 x 1932	2053 x 1856	2096 x 1936	2028 x 1806	180°	-
750.80.110 W/SEAL IS7025si + FDBU20	2040 x 1100 x 45	45	2096 x 1181	2096 x 1181	2096 x 1181	2058 x 1105	2101 x 1185	2025.5 x 1040	180°	-
750.80.1100 (NO SEALS)	2040 x 1100 x 45	45	2091 x 1181	2091 x 1181	2091 x 1181	2053 x 1105	2096 x 1185	2028 x 1055	180°	-

FIG 8

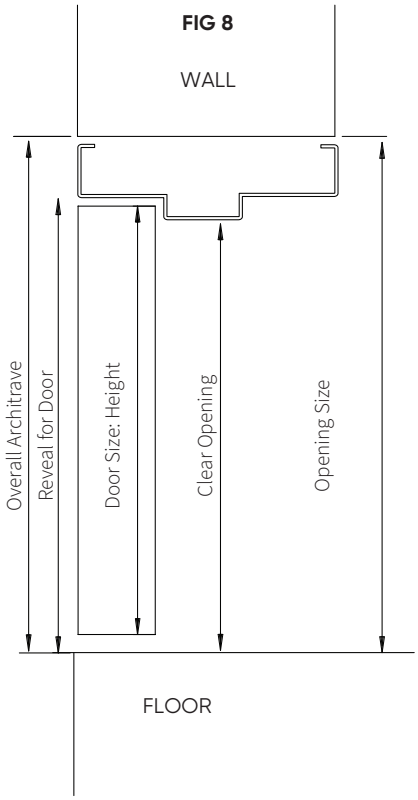
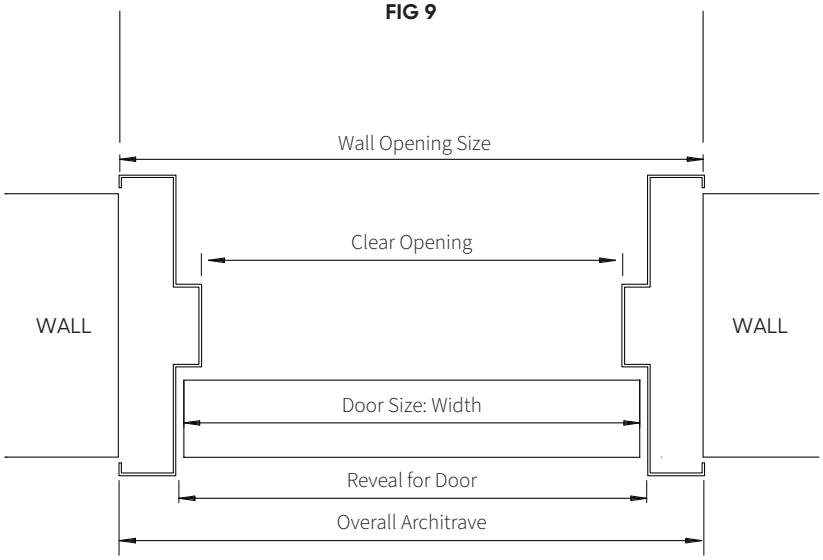


FIG 9



Correct as at 07/08/24

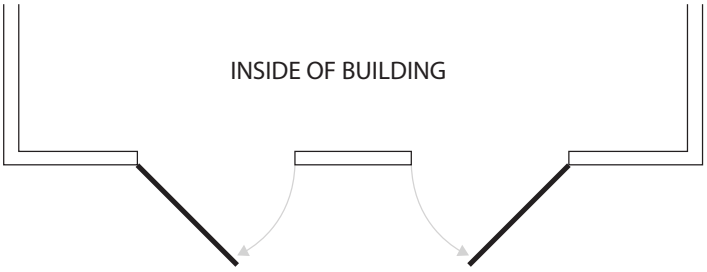
KNOW YOUR HANDING

'Handing' describes where the hinges are on a door that is opening towards you. When you order a new door, it is important to know its handing so that is suits your installation.

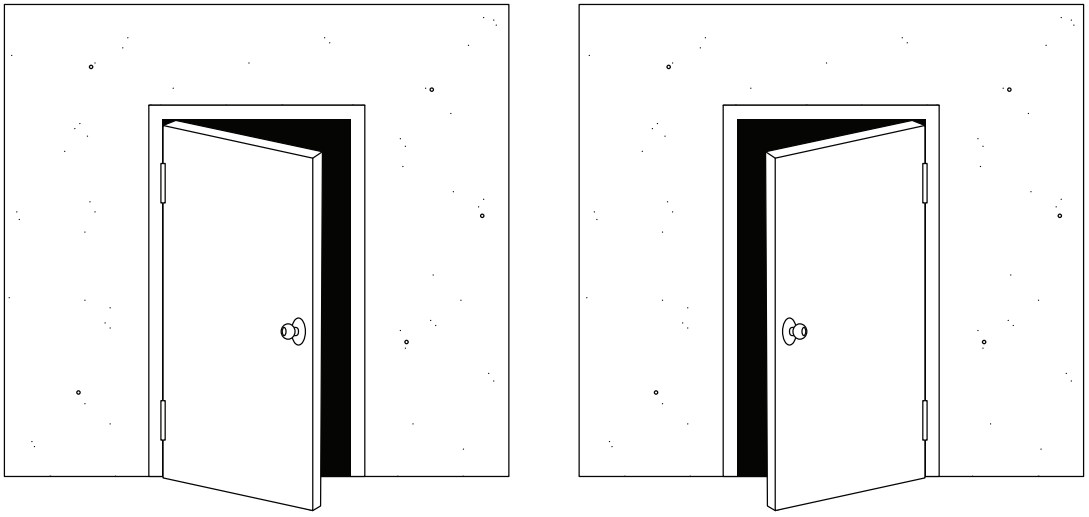
HOW DO YOU TELL?

If you open a door towards you and the hinges are on your left, the door is **left-hand hinged**.

If you open a door towards you and the hinges are on your right, the door is **right-hand hinged**.



OUTSIDE OF BUILDING



Larnec Doors provide a 24 month warranty on all products. The warranty does not cover the product if incorrectly installed, used or maintained, damage from environmental conditions, fair wear and tear, accidents or salt corrosion.

E-CORE® TECHNICAL BULLETIN

ECFD - 102
ISSUE DATE: 30-3-2010

FIRE DOOR INSTALLATION - SINGLES

DESCRIPTION

This Technical Bulletin describes the installation method to be used by door installers when installing E-Core® Fire Doors. This information is to be used as instruction for fire door installers.

PRE-INSTALLATION

1. Check that all hardware and fixings are on hand.
2. Ensure the latest revision of the door schedule is being used and the door is correct for the opening.
3. Measure your reveal height and width to check if the doors will fit into the opening. If you are replacing existing doors do not use them for reference as they may not be fitted correctly, however you can use the existing doors to gauge any bottom adjustments for the new doors.
4. Check hinges are well secured and there is sufficient quantity (refer section 3 of the Fire Door handbook).

E-Core® Approved Fixings

Item	Fixing
Hinges	10 gauge zinc plated steel or stainless steel CSK self drilling screws.
Door Closer	10 gauge zinc plated steel or stainless steel pan head self drilling screws.

NB: Wood screws not to be used

Final Check
When the installation is complete, the fire-resistant doorset shall latch satisfactorily from the fully open position and from any intermediate position, and the closers shall demonstrate satisfactorily back checking action as required by AS 1905.1 – 2005 Clause 2

INSTALLATION

5. The Door Manufacturer's marking will identify the hinge and lock side. Mark the doors on the top face hinge side. Mark 'top hinge corner' or large cross.
6. Open the hinges then place door leaf in the frame.
7. Scribe the door with a 2.5mm spacer.
8. Machine door to scribe marks and finish by planing a 2mm splay or "Back edge". Back edge will ensure the closing door edge does not bind on the door frame.
9. Use a sharp chisel or trimmer to cut the check out for the door hinges. Remove the hinges from the frame and drill/ screw them onto the door (refer E-Core® approved fixings).
10. Turn door end on end and plane the lock side. The lock side will require a 2mm splay or "Back edge".
11. Sand edges and paint top and bottom of the door.
12. Hang the door onto the door frame and check door swing.
13. Gaps between the door frame and door should not exceed 3mm.
14. Fit the nominated door hardware.
15. Affix metal ID Tag for completion

ECFD - 103
ISSUE DATE: 30-3-2010

FIRE DOOR INSTALLATION - DOUBLES

DESCRIPTION

This Technical Bulletin describes the installation method to be used by door installers when installing E-Core® Fire Doors. This information is to be used as instruction for fire door installers.

PRE-INSTALLATION

1. Check that all hardware and fixings are on hand.
2. Ensure the latest revision of the door schedule is being used and the door is correct for the opening.
3. Measure your reveal height and width to check if the doors will fit into the opening. If you are replacing existing doors do not use them for reference as they may not be fitted correctly, however you can use the existing doors to gauge any bottom adjustments for the new doors.
4. Check hinges are well secured and there is sufficient quantity (refer section 3 of the Fire Door handbook).

E-Core® Approved Fixings

Item	Fixing
Hinges	10 gauge zinc plated steel or stainless steel CSK self drilling screws.
Door Closer	10 gauge zinc plated steel or stainless steel pan head self drilling screws.

NB: W ood screws not to be used

Final Check
When the installation is complete, the fire-resistant doorset shall latch satisfactorily from the fully open position and from any intermediate position, and the closers shall demonstrate satisfactorily back checking action as required by AS 1905.1 – 2005 Clause 2

INSTALLATION

5. The Door Manufacturer's marking will identify the hinge and lock side. Mark the doors on the top face hinge side. Mark 'top hinge corner' or large cross.
6. Open the hinges then place door leaf in the frame.
7. Scribe the door with a 2.5mm spacer.
8. Machine door to scribe marks and finish by planing a 2mm splay or "Back edge". Back edge will ensure the closing door edge does not bind on the door frame.
9. Use a sharp chisel or trimmer to cut the check out for the door hinges. Remove the hinges from the frame and drill/ screw them onto the door (refer E-Core® approved fixings).
10. Turn door end on end and plane the lock side. The lock side will require a 2mm splay or "Back edge".
11. Sand edges and paint top and bottom of the door.
12. Hang the door onto the door frame and check door swing.
13. Gaps between the door frame and door should not exceed 3mm.
14. Repeat process for second leaf ensuring correct gap for meeting stile.
15. Fit the nominated door hardware.
16. Fit aluminium meeting stiles with 10 gauge self drilling screws.
17. Ensure intumescent seals are secured and glued neatly into door edge strip groove.
18. Insert and glue smoke seals to each door leaf meeting stile.
19. Affix metal ID Tag for completion

E-CORE® TECHNICAL BULLETIN

ECFD – 111V2.0
ISSUE DATE: 09-11-2011

ACCEPTABLE INSTALLED FIREDOOR CLEARANCES

BACKGROUND

The acceptable clearances on installed fire doors is not well understood by the certifying and maintenance communities. This Technical Bulletin seeks to clarify what is acceptable, what has been tested and approved, and what is certifiable by E-Core® Licencees.

CLEARANCES ON INSTALLED FIRE DOORS

All fire doorsets must be installed as per the requirements of AS1905.1, Clause 5.5.1. For clarity, a copy of the relevant section of AS1905.1-2005 is attached to this Technical Bulletin.

The default clearances as per AS1905.1-2005 are:

- Head and Stiles: 3mm
- Bottom (threshold): 10mm

E-CORE® APPROVALS

As per AS1905.1-2005 Clause 5.5.1, clearance dimensions greater than that specified in Clause 5.5.2 are allowed if demonstrated on a tested specimen. E-Core® firedoors hold approvals FAR3313 as (BRANZ), FCO1814 (CSIRO) and FCO2243 (CSIRO). The maximum clearances allowable and approved for E-Core® fire doors are:

- Head: 4mm
- Stiles: 5mm
- Bottom (threshold): 20mm

SUMMARY

These approvals allow for greater flexibility in the design, manufacture and installation of E-Core® firedoors and it is critical licencees understand the tolerances available to them.

In summary, E-Core® firedoors can be tagged and certified with clearances up to 4mm at the head and 5mm at the stiles, and up to 20mm at the threshold and not breach the requirements of AS1905.1-2005.

Type	Maximum FRL	Reference
35mm (Mini)	-/120/30	FAR3313/FCO1814/FCO2243
45mm (Maxi)	-/240/30	

1. DOOR SIZE & RATING MATRIX

		Maximum Leaf Size		Finish Options								Door Accessories/Options					Door Preparations							Meeting Stiles		
Door Type	Approved Configuration*	Height	Width	MDF	Duracote®	Untreated Ply	Treated Ply	Plastic Laminate Fire Retardant	Plastic Laminate Non-Fire Retardant	Aculine®	1.2mm Metal Sheet (ZA Steel, Stainless, Aluminium)	Standard Vision Panels	Insulated Vision panel	Intum't Air Grilles	Bolection Mould	Kick Plates	Mort'd Btm Seal	Groove for Elec. Lock	Concealed Closer	Panic Bar	Magna-matic	Extra Hinge	Extra Lock	T-Bar	Bull-nose	Timber Rebated
Mini (nom. 35mm)	S	2350	1200	1HR	2HR	2HR	2HR	N/A	N/A	2HR	2HR	✓	✓	✓	✓	✓	✓	N/A	N/A	N/A	N/A	✓	✓	N/A	N/A	N/A
Maxi (nom. 45mm)	S/P	3000x1500 or 3500x1200		3HR	3HR	3HR	4HR	1HR	4HR	2HR	4HR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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2. WALL TYPES AND BACK FILL REQUIREMENTS TESTED BY E-CORE

E-Core® Commercial Fire Doors

Backfill Requirements

Wall Type	Doorset Type	Maximum Leaf Size (HxW) mm	Min Frame Gauge (mm)	Backfill Material *NB: To comply with AS1530.4-2005 all frames must be backfilled*	Maximum FRL
Masonry – Built in or Retrofit	Single Leaf	2400 x 1200	1.4	Not Required	NA/120/30
Masonry – Built in Only	Single Leaf	3500 x 1200 3000 x 1500 3350 x 1340	1.4	Grout, mortar or concrete	NA/240/30
Masonry – Built in or Retrofit	Double Leaf	2400 x 2400	1.4	Not Required	NA/120/30
Masonry – Built in Only	Double Leaf	3500 x 2400 3000 x 3000 3350 x 2680	1.4	Grout, mortar or concrete	NA/240/30
Plasterboard	Single Leaf	2400 x 1200	1.4	Not Required	NA/120/30
Plasterboard	Single Leaf	2400 x 1500 3000 x 1200	1.4	Plaster or Plasterboard	NA/180/30
Plasterboard	Double Leaf	2400 x 2400	1.4	Not Required	NA/120/30
Plasterboard	Double Leaf	3000 x 3000	1.4	Plaster or Plasterboard	NA/180/30
Boral Eureka Wall™	Single Leaf	2340 x 920	1.4	Not Required	NA/60/30
Hebel Wall	Single Leaf	2400 x 1200	1.4	Not Required	NA/120/30
Hebel Wall	Double Leaf	2400 x 2400	1.4	Not Required	NA/120/30
Powerscape Wall	Single Leaf	2100 x 1150	1.4	Powerscape 16mm Plasterboard or vermiduct spray	NA/120/30
Powerscape Wall	Double Leaf	2400 x 2400	1.4	Powerscape 16mm Plasterboard or vermiduct spray	NA/120/30
Rapid Wall Systems	Single Leaf	2400 x 1200	1.4	Not Required	NA/120/30
Rapid Wall Systems	Double Leaf	2400 x 2400	1.4	Not Required	NA/120/30
Ritek Wall Systems	Double Leaf	2400 x 2400	1.4	Grout, mortar or concrete	NA/120/30
Speedwall Systems	Single Leaf	2400 x 1200 or 2650 x 1170	1.4	Grout, mortar or concrete, cast plaster, plasterboard, Powers "Fire-Power" foam	NA/120/30
Speedwall Systems	Double Leaf	2400 x 2400	1.4	Grout, mortar or concrete, cast plaster, plasterboard, Powers "Fire-Power" foam	NA/120/30
Unipanel Wall	Single Leaf	2350 x 920	1.4	Not Required	NA/120/30

E-Core® Residential Fire Doors

Backfill Requirements

Wall Type	Doorset Type	Maximum Leaf Size (HxW) mm	Min Frame Gauge (mm)	Backfill Material *NB: To comply with AS1530.4-2005 all frames must be backfilled*	Maximum FRL
Masonry – Built in or Retrofit (includes AAC block)	Single Leaf	2350 x 1200	1.1	Not Required	NA/120/30
Plasterboard	Single Leaf	2350 x 1200	1.1	Not Required	NA/120/30
Hebel Block	Single Leaf	2350 x 1200	1.1	Not Required	NA/120/30
Rapidwall Wall Systems	Single Leaf	2350 x 1200	1.1	Not Required	NA/120/30
Ritek Wall Systems	Single Leaf	2350 x 1200	1.1	Grout, mortar or concrete	NA/120/30
Speedwall	Single Leaf	2350 x 1200	1.1	Grout, mortar or concrete, cast plaster, plasterboard, Powers "Fire-Power" foam	NA/120/30
Boral Eureka Wall™	Single Leaf	2040 x 820	1.1	Not Required	NA/60/30
Unipanel Wall Systems	Single Leaf	2350 x 920	1.1	Not Required	NA/60/30

Please note: If your proposed wall type isn't listed above, it may mean the doors & frames haven't been tested together, therefore Larnec may not be able to certify & tag the doors & frames. The requirements of the Fire Engineering Report (FER) may allow for components to individually comply in which case we can supply a fire door & frame however this should be signed off as accepted by the fire engineer.

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3. PRODUCT OPTIONS FOR BACKFILLING METAL FIRE DOOR FRAMES

Backfilling of metal fire door frames is a decision for the builder and building certifier and is really driven by the version of the NCC that the building is being constructed under.

However, to be safe and avoid potential problems, our recommendation is that all fire door frames should be backfilled to comply with AS1503.4-2005 (metal clad doors) and AS1503.4-2014 (timber ply doors) as it meets the requirements of the latest standards.

E-Core® has been extensively tested using the following options for backfilling metal fire door frames:

- **Mortar/Cement/Grout Mixes**

When a fire door frame is built into a masonry brick/block wall, it should be backfilled with tightly packed mortar by the brick/block layer. Alternatively, the frame can be fixed into place with expanding masonry anchors and then the mortar/cement/grout mix used to backfill the frame. Maximum of 4 hour rating.

- **Fire Rated Plasterboard**

When a fire door frame is built into a plasterboard wall, it should be backfilled with fire rated plasterboard strips prior to installing into the wall. The consists of cutting and fitting strips of fire rated plasterboard to the inside of the frame and adhering them in place using a standard plaster based jointing compound. Unfortunately, it is not possible to fill frames in plaster walls post installation. Maximum of 4 hour rating.

- **Powers Fire Foam**

Can be used post-installation using holes drilled in frames. Maximum of 2 hour rating.

- **CSR Bradford Rockwool**

Can be used as a filling medium and fitted pre-installation. Maximum of 1 hour rating.

- **Vermiduct Spray**

Can be used as a filling medium and fitted pre-installation. Maximum of 2 hour rating.

In all cases it is imperative that the backfilling medium is tightly packed and all available airspace is removed. Finally, the finished backfilled frame must be tightly sealed against the surrounding opening it is being fitted to using an approved fire rated sealant.

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