

## Australia's leading 3-side, pre-hung industrial door

The Sentry™ 100.80 is an unrivalled high-calibre industrial door for warehouses, processing facilities, and commercial buildings.

This 3-sided, multi-purpose, fully metal-clad, solid core industrial door is pre-hung and can be immediately installed. Installation should always be carried out by a fully qualified tradesperson.

Available in the complete Classic & Contemporary ranges of COLORBOND steel colours, with standard door size of 2040mm(h) x 820mm(w), with 920mm(w) and 1100mm(w) available as standard, and high sizes or custom sizing available.

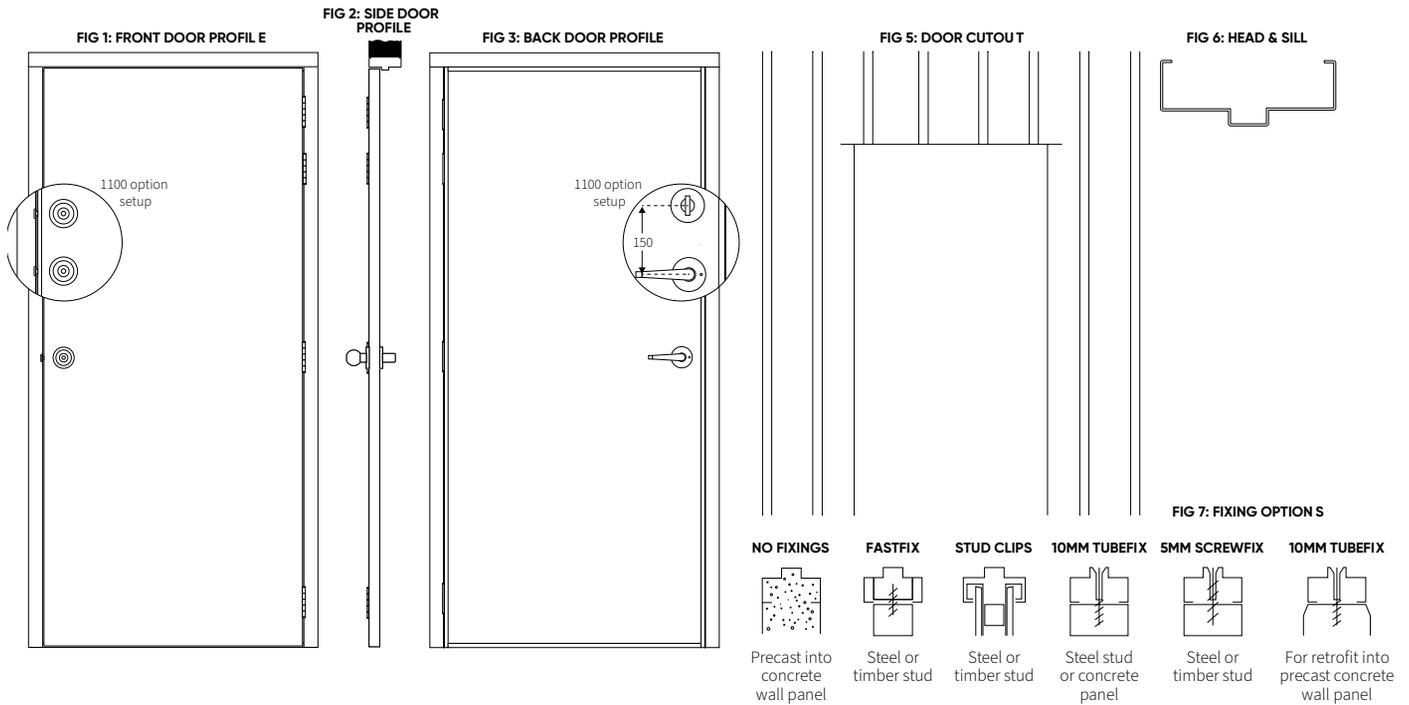


- 3-sided jamb
- Suits multiple wall types including timber stud, steel framework & pre-cast panel
- Quick and easy to install
- Accommodates different wall thicknesses
- Multi-purpose door
- Pre-hung
- Pressed metal door Frame
- Quality Carbine knob/lever lockset
- Solid timber core
- Customisable options available
- 180° opening
- Escape function compliant
- Made in Australia
- 2-year warranty

### Applications

Commercial structures  
Factories  
Processing facilities





The Sentry® 100.80 is an outward opening, pre-hung door and jamb set.

The door leaf consists of a one piece 33mm insert. The metal-clad door leaf is dual skin, fully enclosed on faces and sides with two 0.5mm Colorbond steel sheets, fixed with a two-part polyurethane adhesive.

The door jamb has a three-sided profile made of multi-folded, pressed and welded 1.5mm steel. It can be Zinccaneal (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) 100x75x2.5mm 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.

#### SUPPLIED IN SET

- Pre-Hung Door and Jamb
- Lockset
- Cardboard packers between door and jamb

#### AVAILABLE SIZES

- 2040mm (h) x 820mm (w)
- 2040mm (h) x 920mm (w)
- 2040mm (h) x 1100mm (w)
- 2320mm (h) x 820mm (w)
- 2320mm (h) x 920mm (w)
- 2320mm (h) x 1100mm (w)

#### APPLICATIONS

Steel, timber, brickwork and pre-cast concrete structures – industrial and commercial buildings.

#### AVAILABLE COLOURS

Available in the complete classic & contemporary ranges of COLORBOND® steel colours.

#### ADDITIONAL FINISHES

- Colorbond® Matt
- Colorbond® Ultra
- Galvanised Steel
- Zinccaneal® Steel
- Metaprep Primer for corrosive environments

#### WIND RATING

**63.06**  
M/S (227.016 KM/H)



TESTED IN ACCORDANCE WITH AS/NZS 1170.2:2011

Standard height (2040mm) Sentry® 100.80 doors are tested and approved for use in all of regions A, B and C, as per the Australian Standard. That means they are certified to withstand cyclonic winds.

**51.87**  
M/S (186.732 KM/H)



TESTED IN ACCORDANCE WITH AS/NZS 1170.2:2011

The widest doors in the Sentry® 100.80 range (1100mm) are cyclone rated for Regions A and B, and can be upgraded to meet the more stringent Region C certification by installing an additional deadbolt (see insets on Figs 1 and 2).

Taller (2320mm) Sentry® 100.80 doors are not rated for wind load.

## INSTALLATION OPTIONS

The Sentry® 100.80 can be installed in six 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).

If the preceding recommendable fixing methods are not achievable, you can use screw fix (see B5) on any wall application as needed.

Alternatively, the 100.80 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 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.
  - ▶ A Trimdek or Monoclad profile is ideal.
  - ▶ All corners of the cut must be safely in the valley of the cladding profile.
  - ▶ Ensure there is no structural steel 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.

	<b>100.80.820</b>
<b>DOOR SIZE</b>	2040mm (h) x 820mm (w)
<b>REQ. OPENING</b>	2108mm (h) x 908mm (w)
	<b>100.80.920</b>
<b>DOOR SIZE</b>	2040mm (h) x 920mm (w)
<b>REQ. OPENING</b>	2108mm (h) x 1008mm (w)
	<b>100.80.1100</b>
<b>DOOR SIZE</b>	2040mm (h) x 1100mm (w)
<b>REQ. OPENING</b>	2108mm (h) x 1188mm (w)
	<b>100.80.820H</b>
<b>DOOR SIZE</b>	2320mm (h) x 820mm (w)
<b>REQ. OPENING</b>	2388mm (h) x 908mm (w)
	<b>100.80.920H</b>
<b>DOOR SIZE</b>	2320mm (h) x 920mm (w)
<b>REQ. OPENING</b>	2388mm (h) x 1008mm (w)
	<b>100.80.1100H</b>
<b>DOOR SIZE</b>	2320mm (h) x 1100mm (w)
<b>REQ. OPENING</b>	2388mm (h) x 1188mm (w)

4. Extend the horizontal cut across the top about 50mm beyond the intersection with each vertical cut (see Fig. 7).
  - ▶ This extended cut allows the top architrave (and optional J-mould weather strip) to slide behind the shed cladding.
5. 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 3 or 4mm.

## B2. STUD CLIP INSTALLATION

Stud clip installation is only appropriate if installing into wall studs prior to plastering or wall lining. The required size of the clips must be included with the profile order sheet to match the plaster.

**Required:** Spirit level, impact driver, at least thirty-two (32) screws of 8 gauge and 25mm length or larger.

**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, page 2.)
2. Attach stud clips (supplied on request) behind the architrave:
  - ▶ Press the clips to the back/inside of the latch side of the jamb on the door side:
    - ▶ First, 150mm below the top of the door
    - ▶ Second, 150mm from the bottom of the jamb
    - ▶ Then, space the other 2 evenly in between the first two
  - ▶ Repeat the same process on the hinge side of the jamb, pressing four more stud clips in at the same heights.
3. Lift the door into place:
  - ▶ Start from outside of the structure.
  - ▶ Check that hinges are set to swing outwards.
  - ▶ Use two (2) people to lift until the brackets are hard up against the stud.
4. Attach stud clips to the jamb:
  - ▶ Insert the remaining eight (8) clips at the matching heights to the ones already pressed in behind the architrave
  - ▶ Space clips evenly down the left and right sides of the frame.
5. Fix the hinge-side of the jamb to the wall:
  - ▶ Screw the clips into position keeping the recommend gaps.

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, check the gap regularly, and stop when the gap is 3-4mm.

## B3. TUBE FIX INTO STEEL STUDS

Tube fix installation can be used to install the Sentry 100.80 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) 10g×100mm metal long-threaded self-drilling screws.

**(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).
5. Fully fix the hinge-side of the jamb to the stud:
    - ▶ Four (4) countersunk holes (10mm) are predrilled through the doorstop of the inner jamb.
    - ▶ Standing inside the door opening, insert a 10g×100mm metal long threaded screw 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 3 or 4mm.

#### B4. TUBE FIX INTO CONCRETE

Tube fix installation can be used to install the Sentry 100.80 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) 12-gauge concrete bolts 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 four 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:
  - ▶ Four (4) countersunk holes (10mm) are predrilled through the doorstop of the inner jamb.

- ▶ Standing inside the door opening, insert a 12-gauge concrete bolt 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 3-4mm.

#### B5. SCREW FIX INSTALLATION

Screw fix may be suitable for any wall application where one of the recommendable preceding fixing methods are not achievable. 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, at least eight (8) screws 10 gauge or larger, suitable for the material into which you are installing.

**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.
  - ▶ Ensure suitable gap around perimeter of the jamb, to allow plaster or wall lining to slide behind.

3. Fully fix the hinge-side of the jamb to the wall:

- ▶ Four (4) countersunk holes (5mm) are predrilled through the doorstop of the inner jamb.
- ▶ Standing inside the door opening, insert a screw into the uppermost hole, 150mm from the top of the hinge-side. Screw into the stud frame.

▶ 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.

4. 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 3 or 4mm.

### 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:

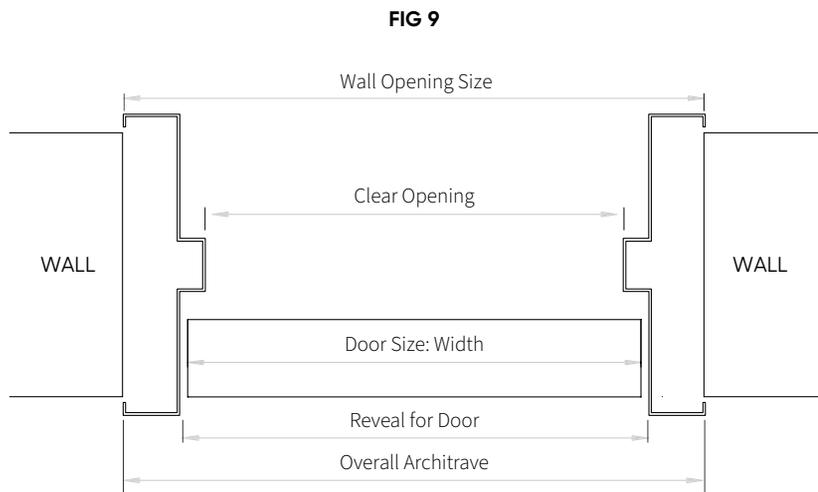
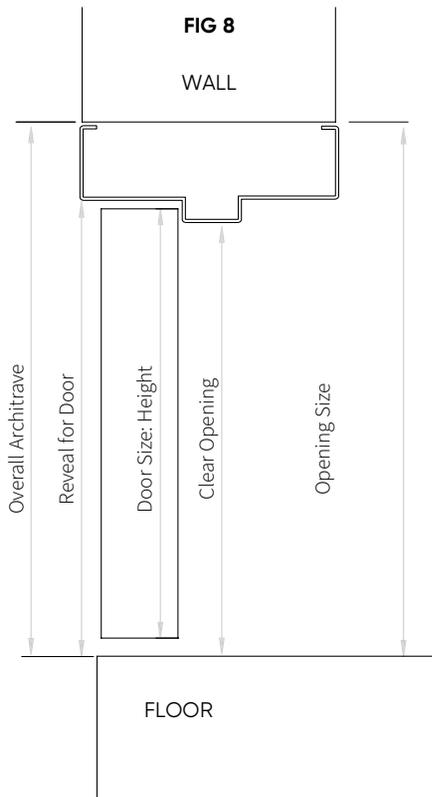
- ▶ In rural or normal urban environments, every six (6) months.
- ▶ In areas of high pollution, such as industrial areas or coastal environments, every three (3) months.
- ▶ In particularly hazardous or corrosive environments such as beachfronts, severe marine environments, areas of high industrial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

PRODUCT FILE CODE	DOOR SIZE HxW	DOOR THICKNESS (MM)	OVERALL PRODUCT INSERT HxW	OVERALL EXT. ARCHITRAVE HxW	OVERALL INT. ARCHITRAVE HxW	REVEAL FOR DOOR HxW	CLEAR OPENING REQUIRED HxW	WALL OPENING SIZE HxW	DOOR OPENING ANGLE	WIND RATED TO REGION
100.80.820	2040 x 820	37	2103 x 904	2103 x 904	2103 x 904	2065 x 828	2050 x 798	2108 x 908	180°	C
100.80.920	2040 x 920	37	2103 x 1004	2103 x 1004	2103 x 1004	2065 x 928	2050 x 898	2108 x 1008	180°	C
100.80.1100	2040 x 1100	37	2103 x 1184	2103 x 1184	2103 x 1184	2065 x 1108	2050 x 1078	2108 x 1188	180°	B
100.80.1100 DBT	2040 x 1100	37	2103 x 1184	2103 x 1184	2103 x 1184	2065 x 1108	2050 x 1078	2108 x 1188	180°	C
100.80.820H	2320 x 820	37	2383 x 904	2383 x 904	2383 x 904	2345 x 828	2330 x 798	2388 x 908	180°	-
100.80.920H	2320 x 920	37	2383 x 1004	2383 x 1004	2383 x 1004	2345 x 928	2330 x 898	2388 x 1008	180°	-
100.80.1100H	2320 x 1100	37	2383 x 1184	2383 x 1184	2383 x 1184	2345 x 1108	2330 x 1078	2388 x 1188	180°	-



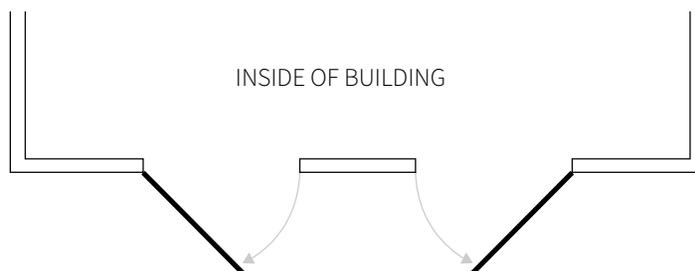
**KNOW YOUR HANDING**

'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 it suits your installation.

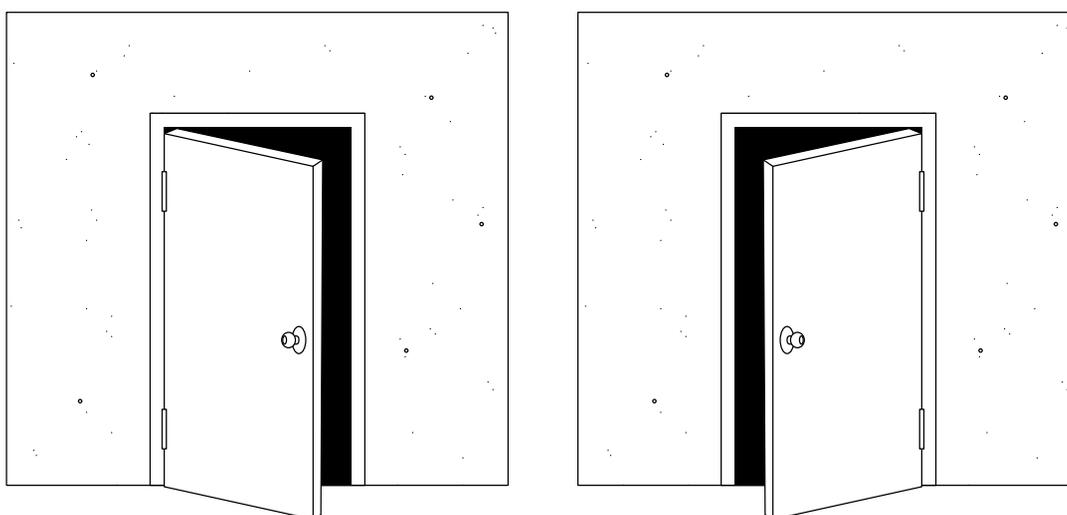
**HOW DO YOU TELL?**

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.