100% AUSTRALIAN MADE & OWNED



by

FORTRESS GATES Pty Ltd

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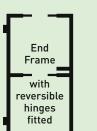
Manufactured under one or more of the following Patents nos: 953 959 & 569 703.

And other Patents pending.

Available from:

FIRST Frame Height

Hinges included with E Frames



E1850

1.85 metre high frame

E1650
1.65 metre high frame

E1400

1.40 metre high frame



hinges fitted

E1050

1.05 metre high frame

E840 840mm high frame

E710

710mm high frame

TIPS

NOTE: this rail not required when using Low Profile E840 & E710 End Frames

NOTE: this rail not required when using Low Profile E1050, E840 & E710 End Frames

CAUTION

Angle of diagonal brace requires HD products to be used with an End Frame with SAME COLOUR labeling



THEN Frame Width

Horizontal rails (H rails) with screws

Gate width = H rail width

+ 200mm

WIDE BRACED GATE

Horizontal rails (HD rails)

with diagonal brace

and screws

HD width

Gate width = HD rail width + 200mm

EXTRA WIDE BRACED GATE

Up to 900mm wide gate

H800

Up to 1.0 metre wide gate

H900

Up to 1.1 metre wide gate

H1000 Up to 1.2 metre wide gate

WIDE BRACED GATE

STANDARD GATE

HD1.3

HD1.3

HD1.3

1.2 to 1.5 metre wide gate with diagonal brace

WIDE BRACED GATE

HD1.6

HD1.6

HD1.6

1.45 to 1.8 metre wide gate with diagonal brace

HDD1.9

HDD1.9

1.75 to 2.1 metre extra wide gate with diagonal braces

FENCE PANELS

4 Braces Gate Post...

- a) Between gate post and existing side fence rails.
- b) Between gate post and house wall.
- **5** Fence Panels eg: Between house and side fence.
- 6 Removable Fence Panel

Eg: Complete panel can be unscrewed and replaced for occasional wide access to back yard.

GATES

Double Gate. eg: Driveway - up to 2.1 meters high and 3.6 meters wide.

Adjust Gate Height

by extending timber the

required distance above

and/or below the frame.

- **2 Single Gate.** eg: Pedestrian gate beside the house up to 2.1 meters wide.
- **3 Feature Gate.** eg: Pathway.

FORTRESS GATE FRAME & FENCE PANELS GALVANISED TUBULAR STEEL





STRONG • GALVANISED • EASY

Fortress Gates are committed to quality and reliability to ensure your gate meets with the requirements of the discerning buyer.

Manufactured from 25mm x 25mm square galvanised steel tubing with sturdy welded joints, these frames won't rot or warp. Your Fortress Gate Frame will allow for different cladding to be added at a later date if trends should change.

Fortress Gates offer a variety of sizes and options to choose from, one of which is sure to suit your needs.

ALL YOU NEED



- Hexagon drill socket 1/16 or 8mm
- $\frac{7}{32}$ or 5.5mm **drill bit**
- Electric drill (Preferably variable speed & reversible)
- Self drilling screws (See chart)
- Mallet for timber block and hammer)
- Choose your own Cladding
- Hacksaw (if cutting required)
- Tape Measure

STEP 1

- Determine width by measuring between gate posts, top and
- Horizontal "H" rails should be 200mm less than gate width Ito allow for 100mm each side of "E" framel.
- Cut "H" rails to suit if your gate is TOO WIDE. Eq: H700, cut to 650 = 850mm wide gate.

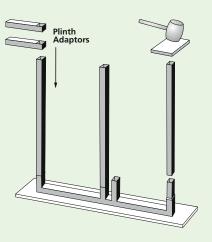
Note: Allow for clearance

SINGLE GATE - should be 10-15mm less than opening Double Gate - should be 30-35mm less than opening

STEP 2

BEFORE ASSEMBLY:

- Determine the front of the gate, the hinge side (Hinges are fully reversible), left or right opening and placement of the latch.
- Place the latch side on firm level ground, then bump horizontal rails ("H" rails) on with a mallet or heavy piece of wood. (Hammer must not be used directly onto framel.
- Add plinth adaptors (if required).
- Place hinge side on top of "H" rails and bump into position.
- Now check for correct width, top, centre and bottom.



Horizonta Rails (H)

STEP 3

- "F" frames are fitted with reversible ball-bearing hinges. This means the hinge pin can be inserted from either end depending on position of the oil cap and ball.
- Oil cap and ball MUST be at the top of both hinges. If they are not then **reverse** them as shown.

Ball at Top

It is recommended the

hinge plate be fitted to

front or back of post.

HOW TO REVERSE HINGE

To reverse hinge remove oil cap, then use hinge pin and hammer to GENTLY dislodge the ball from its retaining groove. It will then slide up the barrel and snap into place in retaining groove at opposite end. Ball moves from end to end but cannot come out.

CAUTION: Do not install with one hinge upside down, i.e. ball at bottom and pin inserted from top. This will allow water to fill hinge barrel and possibly cause the hinge to seize.

STEP 4

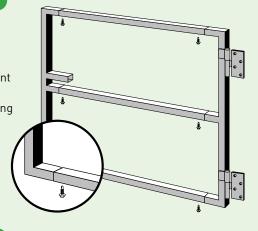
- Place the gate frame into position using a chock to gain the correct height.
- Screw hinge pin plate to the post using one screw only in each plate. When satisfied gate swings properly insert rest of screws.
- Check the swing of the frame for
- Ensure the frame is at the correct height for cladding.

clearance between the post and the ground.

 If fancy pickets are used, allow adequate space above the frame.

STEP 5

Now screw your frame together with the screws supplied to prevent frame joint from moving while fitting cladding.



STEP 6

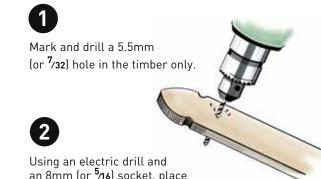
BRACED GATES

- The "HD" rail (horizontal with diagonal brace) is used for wide gates.
- Make sure you use the correct "HD" for the "E" frame as the length and the angle of the brace is pre-set for the height.
- "HD" labels are colour coded to the corresponding "E" frame.

on the latch side only.

IMPORTANT Latch Side **HD RAIL** Diagonal Hinge Side should point upwards towards the latch side (not down). "HD" rails may be cut back

You can select from a wide range of timbers at all leading hardware/timber merchants to fix to the steel frame by using **SELF DRILLING** screws.



an 8mm (or ⁵/16) socket, place SELF-DRILLING screw in the hole in timber cladding - then screw SELF-DRILLING screw directly into steel frame.



SELF-DRILLING SCREW READY RECKONER CITE

SIZE	USE
No. 10-16 x16mm	For drop bolt, gothic latch, accessories
No. 12-14 x35mm	Pickets or decking 20-22mm thick
No. 12-14 x45mm	1" (25mm) boards, e.g. 6"x1"pine
No. 14 x22mm	For fixing hinges to tubular steel posts - up to 6mm wall thickness

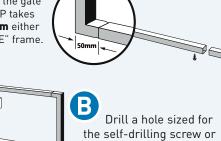
Fence Panels are used in conjunction with Gates to:

- Brace a gate post to a fence or wall (see diagram C below)
- Fill a gap between a gate post and a fence
- Reduce an extra wide gap to a more practical size for a gate
- Allow a gate post to be positioned away from pipes or footings
- Build short sections of fence



The Fence Panel (FP) is constructed in the same way as the gate frames. (see step 1 & 2).

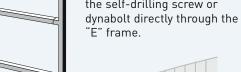
Note: unlike the gate frame, the FP takes up only **50mm** either side of the "E" frame.



There are six FP heights

to correspond to the six

gate heights.



The Fence Panel acts as a brace by securing the gate post to a fence or wall (as shown).

HEIGHT: there are six FP frame heights identical

to the gate frame heights

WIDTH: choose from horizontal rails 1.2m, 2.0m,

and 2.4m wide or cut to length.