

 Boundaryline

PicketPanel Install Guide

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Before you start

Read this entire install guide before beginning any installation. For guidance, information or advice, our technical team is available Monday to Friday, 7am to 5pm, at 0800 003 006, or email enquiries@boundaryline.co.nz

Identify soil type/ground conditions to determine the required concrete and footing details.

Be aware of any underground services prior to commencing digging, identify the legal boundary and check local council regulations on boundary fencing. Contact the local council for more information.

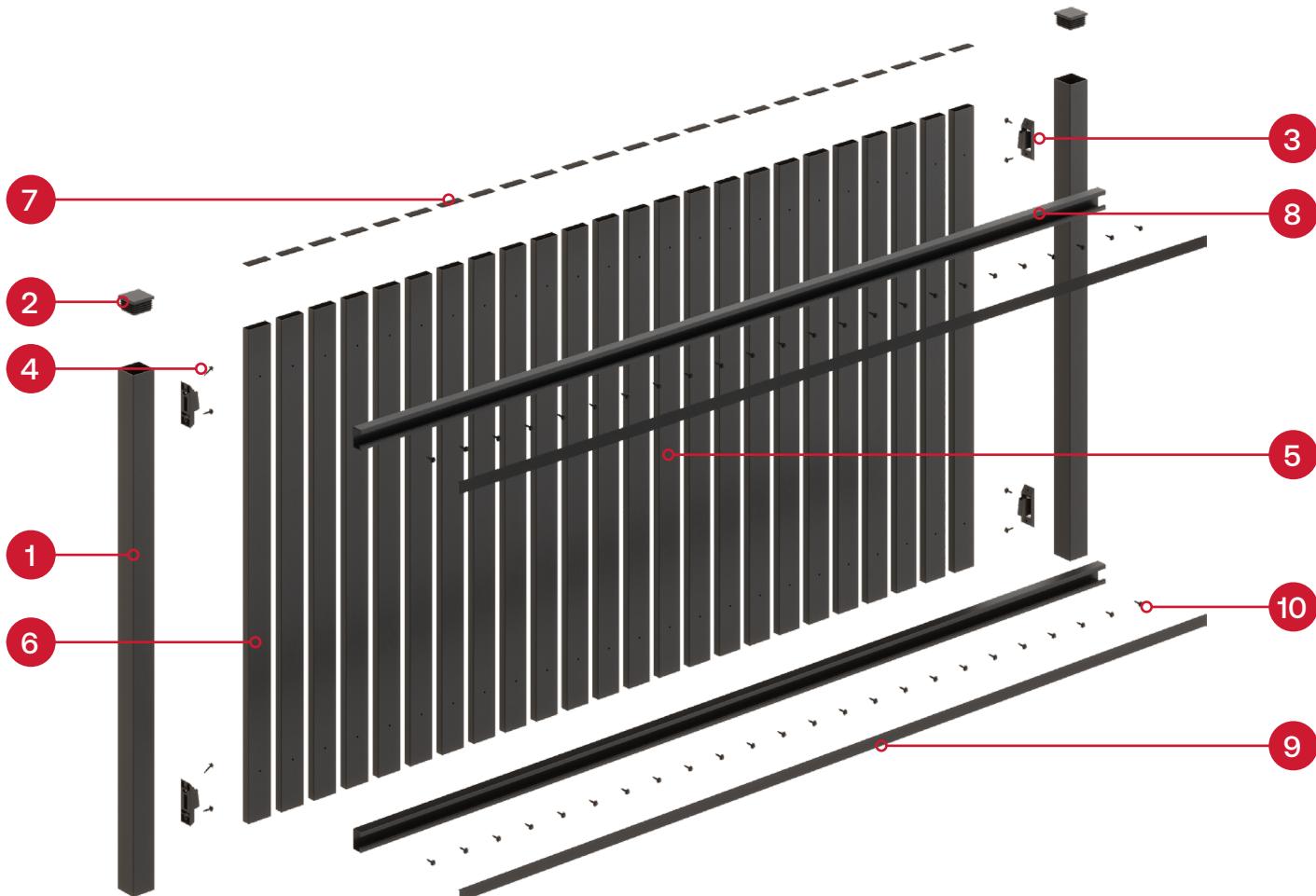
For F4 (Fall From Height) or F9 (Pool Fencing) applications, refer to the PS1 for installation details.

Tools Required	Optional Tools	Safety Gear
<input type="checkbox"/> Tape Measure	<input type="checkbox"/> Powered Auger - 200mm diamenter	<input type="checkbox"/> Safety Boots
<input type="checkbox"/> Spade/Shovel	<input type="checkbox"/> Hacksaw/Powered metal cutting saw	<input type="checkbox"/> Gloves
<input type="checkbox"/> Level	<input type="checkbox"/> Laser-level	<input type="checkbox"/> Helmet
<input type="checkbox"/> String Line	<input type="checkbox"/> Rivet Gun	<input type="checkbox"/> Eye Protection
<input type="checkbox"/> Concrete		<input type="checkbox"/> Hearing Protection
<input type="checkbox"/> Drill		<input type="checkbox"/> Sun Protection

Carefully read through the entire installation guide before commencing any installation work.
Ensure measurements are correct before cutting components.

PicketPanel Fence Components

Take care when opening and unloading the package. Ensure all components are accounted for and check it is all undamaged.



A complete PicketPanel Fence System consists of:

1. Posts



x2

2. Post Caps



x2

3. Brackets



x4-6*

4. Tek screws



x8

5. Fence Panel**



x1

**PicketPanel Fence Panel Components (fence panel supplied assembled)

6. Pickets



x24

7. Picket Caps



x24

8. Rails



x2

9. Rail covers



x2

10. Tek Screws



x48

*Four brackets are used for the 950, 1200 and 1500mm high fences and 6 brackets are used for the 1800mm high fence

Step 1 | Laying Out The Fence Line

Hammer a wooden peg (or similar) into the ground at each end of the fence line. These represent the start and end points of your fence.

1. If there is a corner or a change in direction, put a peg in at each of those points too. *Fig. 1*
2. Tie a string line to the first marker peg, keeping the string line just off the ground. Run the string line along the pegs, from the beginning peg to the end, keeping the string line taught and straight, with no sag. *Fig. 2*
3. Once the string line is in place, measure along the line and mark where the post centres will be located with spray paint or a marker peg. *Fig. 3*
4. To calculate the standard PicketPanel post centres see the below table

PicketPanel Standard Post Centres						
Panel length	+	Clearance*	+	Post size	=	Post centre
2430mm	+	12mm	+	50mm	=	2492mm
2430mm	+	12mm	+	65mm	=	2507mm

*Clearance between the post and panel allows space for the bracket



Fig. 1



Fig. 2

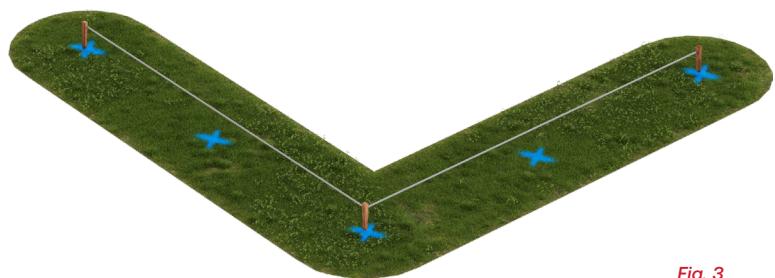


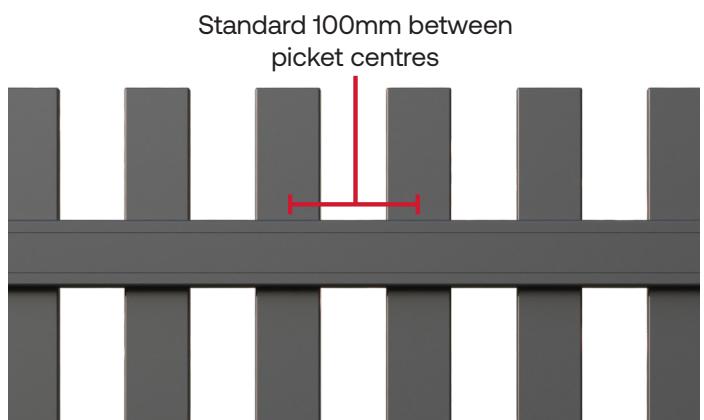
Fig. 3

When installing PicketPanel, it is recommended to give consideration to the spacings of the posts, to avoid the need to respace the pickets when installing.

The panels are 2430mm wide, with the centre of each picket spaced at 100mm apart.

If posts require being closer together than the standard panel length, keeping the posts distances in multiples of 100mm, where possible, (i.e., 2330mm, 2230mm etc), will result in simply trimming off the excess of the panel and prevent the need for respacing pickets.

If this method is not achievable, the guide to respacing pickets is on [page 08](#)



Step 2 | Installing Posts

In-ground Posts

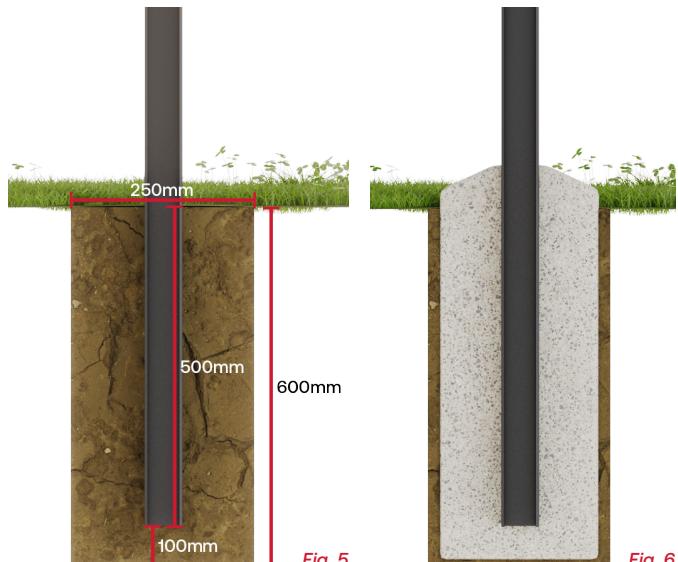
1. After marking post positions, dig the post holes. *Fig. 4*
2. Post hole depth will vary depending on ground conditions and fence height.
All post holes should be at least 250mm in diameter, 600mm deep, and should be straight, with the sides either parallel, or wider at the bottom than the top. *Fig. 5*



Fig. 4

Post Hole Depths:		
Soil type	Min. hole depth	Approx. required concrete (20kg bag)
Clay/Firm Earth	600mm	2 bags per post hole
Sand/Loose Fill	900mm	3 bags per post hole

Post Hole Dimensions:	
Post Size	Suggested Hole Diameter
50x50	250-300mm
65x65	300mm



3. Brace the post into position, ensuring it is straight and level. Check there is enough height for 50-100mm of ground clearance from the bottom of the fence panel.
4. Pour in the concrete, allow at least 100mm of concrete below the post.
Vibrate/compact the concrete to remove any voids.
5. Slope the top of the concrete to allow water to drain away from the post. *Fig. 6*
6. Check the posts are straight and level before the concrete fully sets.

Flanged Posts

1. Ensure the surface is firm, level and free of debris.
2. Align the posts along the surface.
3. Fix the posts into place using the correct type of fixings for the application.

Fixings - indicative

In concrete: 4x M12 concrete screw bolts with minimum 70mm embedment

In timber: 4x 12mm coachscrews with minimum 120mm embedment



Fixing details may vary for F4 or F9 compliance, please refer to the Boundaryline PS1 for guidance.

Step 3a | Installing Panels

Once the posts are completely set and secured, the panels can be installed.

1. On the posts, measure to confirm the placement of the brackets, allowing for 50-100mm of clearance between the ground and the bottom of the pickets. The panels should sit flush with the top of the posts. *For ground clearance, 50mm minimum is recommended.*
2. Slot the brackets onto the rails *Fig. 5*
3. Place the panel between the posts into its correct position and attach the brackets to the post. Since PicketPanel can rake, once one side is attached, the other side can be easily lowered into position. *Fig. 6*
4. Once the brackets are attached, the rail can be fastened to the bracket to lock the panel into its final position. *Fig. 7*

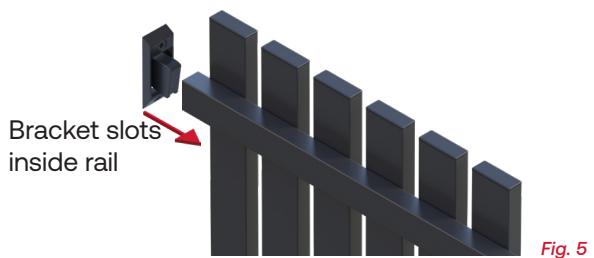


Fig. 5

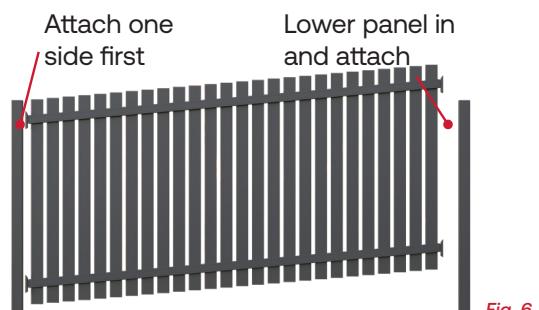


Fig. 6

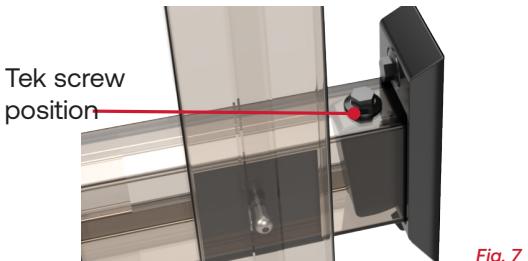
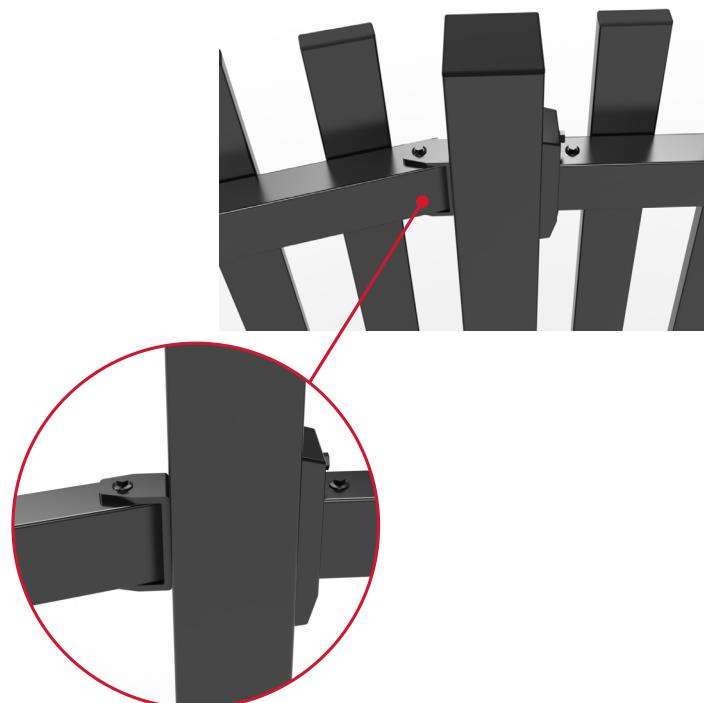


Fig. 7

Step 3b | Installing Panels in a Curved Line

If PicketPanel is being installed in a curved line

1. Using a DAR5025-BK raking bracket, measure 100mm from the top of the post to the top of the bracket. Secure the brackets onto the post with the provided tek screws.
2. Position the panel at the required angle. If the angle is more than what the bracket allows, you may need to trim the rail down see **page 09** on how to trim the rails.
3. Attach the panel to the bracket using tek screws through the top and bottom of the bracket.

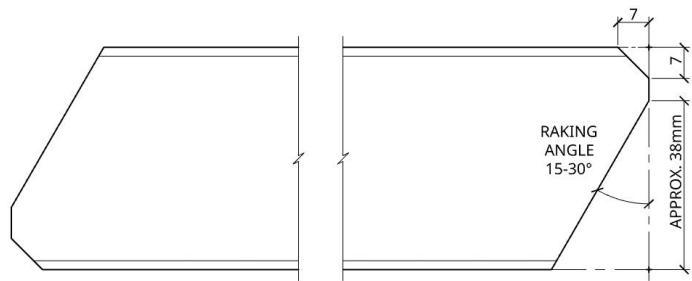


Step 3c | Installing Panels Raking Over 15 Degrees

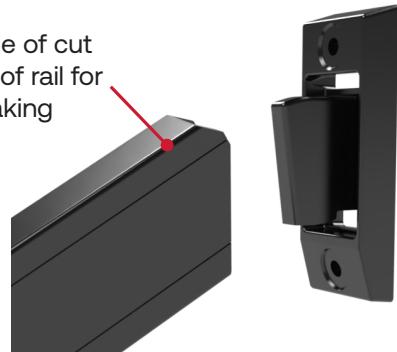
If PicketPanel is being installed with a raking angle exceeding 15 degrees.

Please note: When raking panels, the spacing between the pickets will *decrease*. Raking more than 20 degrees may require you to respace the pickets. A guide on respacing pickets is available on [page 10](#).

1. Measure the angle that the panel will rake to and cut that from the rail. The cutouts will be the opposite at either end of the rail. Also measure a 7mm cutout from the long edge of the rail, this will keep the end of the rail from protruding. [Fig. 8](#)
2. Slot the brackets onto the rails, then place the panel between the posts into its correct position, ensuring the bracket on the lower end is inverted to accommodate the rake. Attach the brackets to the posts using the provided tek screws. [Fig. 9](#)
3. Fasten the rail to the bracket to fix the panel in its final position. [Fig. 10](#)

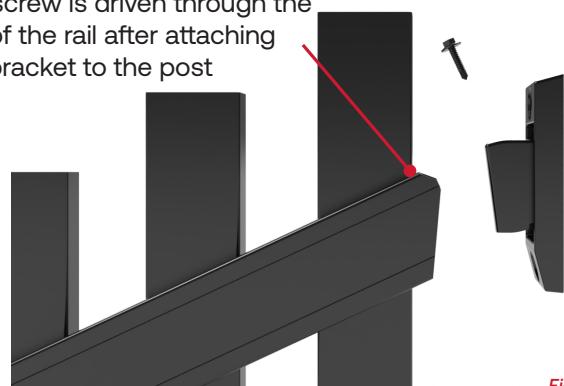


Example of cut angles of rail for extra raking



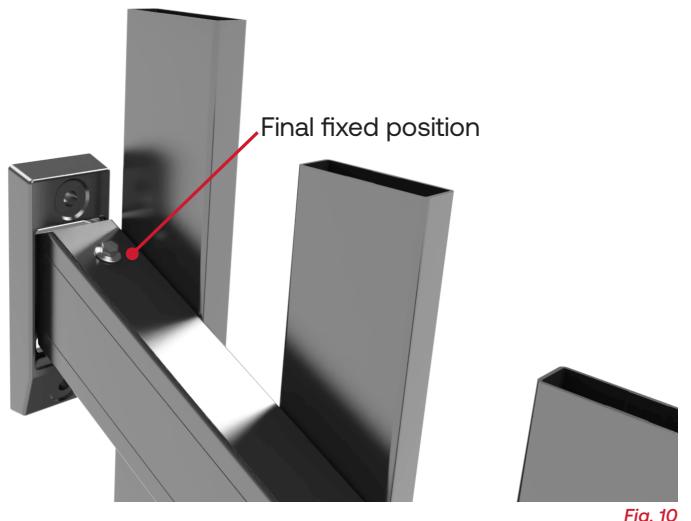
[Fig. 8](#)

Tek screw is driven through the top of the rail after attaching the bracket to the post



[Fig. 9](#)

Final fixed position



[Fig. 10](#)

Extra | Respacing Pickets

Tools required

- Drill with 5mm drill bit
- Rivets (4.8mm aluminium with grip range of 3.2 to 4.8mm)
- Rivet Gun or Hand Riveter
- Tape Measure

Step 1:

Remove the slip cover from the back of the rails on the panel. The cover is designed to slide out of the channel. *Fig. 11*

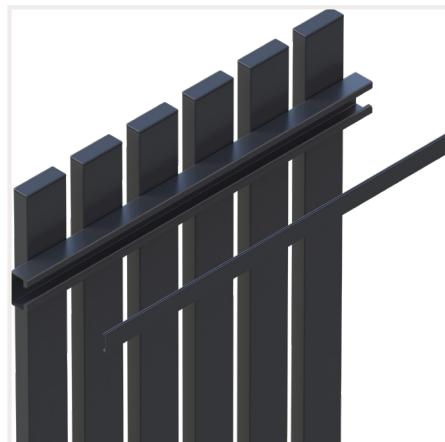


Fig. 11

Step 2:

Drill out the rivets with a 5mm drill bit. *Fig. 12*

Be careful not to allow the chuck of battery drill to rub on the rail, this can damage the powder coat finish.

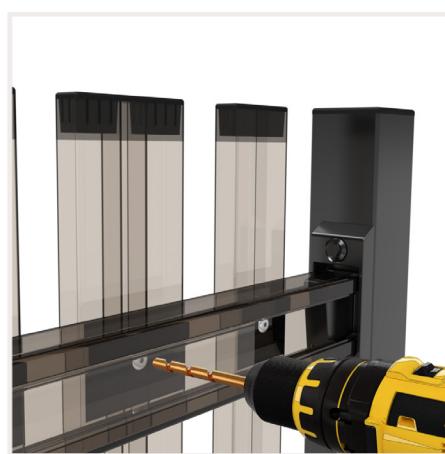


Fig. 12

Step 3:

Space out pickets evenly.

Small 5-10mm differences are typically not noticeable.

Use a spacer to keep the picket gap widths consistent

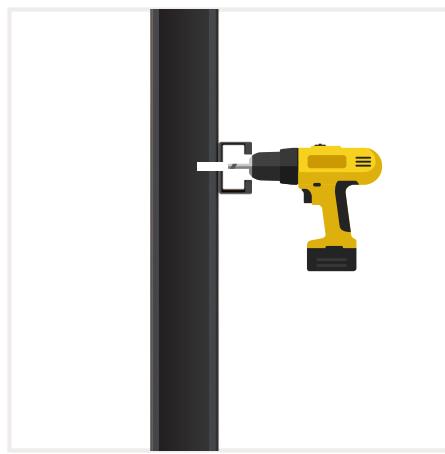


Fig. 13

Step 4:

Drill new hole, through both the rail and the back side of the picket, be sure to avoid drilling right through to the front side of the pickets. *Fig. 13*

Mark the drill bit with a piece of tape at 5mm of depth to make sure you don't overdrill

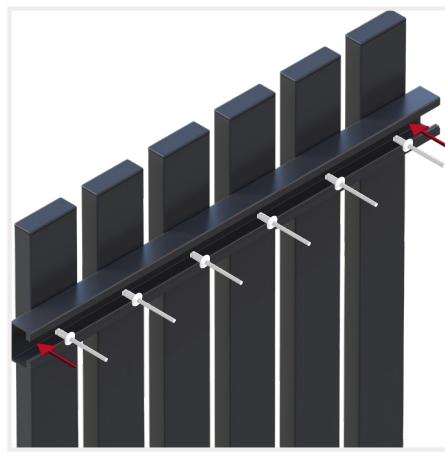


Fig. 14

Step 5:

Rivet the new pickets on using a hand riveting tool or a rivet gun. *Fig. 14*

Step 6:

Replace the slip cover.

The previous rivet holes should be covered over with the re-fixed pickets.

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Please note: This document is only intended to be a general guide, as every property and situation is different. All measurements are provided as a general guide. For detailed specifications, including full technical drawings and PS1 documents (where applicable), please refer to our website.

Any installation work, including the use of power equipment is completely the responsibility of the person(s) installing.

All persons using power equipment must be trained and certified to use the equipment and must wear all applicable personal protection gear.

Boundaryline Limited cannot accept any responsibility for any faulty installation or damage or injury arising from installation work. Our team is available 7am - 5pm, Monday to Friday on 0800 003 006 or email us at enquiries@boundaryline.co.nz.