



Quality - Built In

# ASSEMBLY INSTRUCTIONS



## DKL4217-DS

BASE SIZE 4210mm x 1715mm



**CHECK OUT OUR ASSEMBLY VIDEO**

## **Let Keith and Justin show you how to build your Kiwi shed like a professional.**

When used in conjunction with these assembly instructions, Keith's practical tips and tricks will make your assembly experience that much simpler, giving you visual guidance through sections that seem tricky on paper, and help you achieve a flawless end result.

To view the video visit **[www.duratuf.co.nz/kiwi-assembly](http://www.duratuf.co.nz/kiwi-assembly)**



**Note:** Assembly video features a MK2. But can be used for reference for any other Kiwi model.

# ASSEMBLY INSTRUCTIONS

## Tools Required:

- Drill
- Drill Bit 3.5mm
- Drill Bit 10mm
- Drill Bit 6mm (for clear roof panel only)
- Hex Drive 5/16
- Riveter
- Hammer
- Nail Punch
- Tape Measure
- Ladder or Saw stool
- Spanners x 2
- String Line
- Tin Snips
- Skillsaw and Jigsaw (for floor only)
- Masonry Drill and 10mm Masonry Bit (for Bolt Down Kit only)

## IMPORTANT

**SUNSCREEN WARNING:** Prevent contact of the painted surface with sunscreens containing titanium dioxide (TiO<sub>2</sub>) or zinc oxide (ZnO). It has been proven to discolour and degrade the paint finish. The use of gloves is recommended.

Damage to prepainted steel caused by contact with sunscreen is not covered by your Duratuf warranty.

## Before you start:

- Read all instructions carefully.
- Identify all parts and check quantities against checklist.
- If you are making your own floor refer to Raised Base Plate section now.

## Safety:

- Do not attempt to build your shed in high winds.
- Beware of sharp edges.
- Protect your eyes and ears.
- Use electric tools with care. Use a Safety Trip Switch.
- It is easier and quicker if this shed is erected by two people.

## Select your site:

- Your shed must be level. Achieve this by either levelling the ground or by using blocks.
- If your shed is to be positioned on wet or damp ground, we recommend that your shed is raised up off the ground slightly.

ROOF COLOUR

WALL COLOUR

INVOICE NO:

BASE SIZE:

QTY	LENGTH	DESCRIPTION	PACKED	CHECKED
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
11	1.890m	Wall Sheets	<input type="checkbox"/>	<input type="checkbox"/>
2	1.890m	MK4 1/2 Wall Sheets	<input type="checkbox"/>	<input type="checkbox"/>
2		Door - Standard <input type="checkbox"/> Security <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1		Instruction Booklet	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
1		Hardware Pack	<input type="checkbox"/>	<input type="checkbox"/>
		Touch-up Paint & Brush	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
5	1.955m	Roof Sheets	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

## OPTIONAL EXTRAS

QTY	LENGTH	DESCRIPTION	PACKED	CHECKED
230	50mm	Flooring Nails	<input type="checkbox"/>	<input type="checkbox"/>
12	75mm	Flooring Nails	<input type="checkbox"/>	<input type="checkbox"/>

## WINDOWS

		Fixed Window Frame	<input type="checkbox"/>	<input type="checkbox"/>
	0.580m	Glaze Beads	<input type="checkbox"/>	<input type="checkbox"/>
	0.603 x 0.603m	Glass	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
		Louvre Window Frame	<input type="checkbox"/>	<input type="checkbox"/>
	0.588 x 0.150m	Glass	<input type="checkbox"/>	<input type="checkbox"/>
	0.710 x 0.240m	Over Panel	<input type="checkbox"/>	<input type="checkbox"/>
1		Window Hardware Pack	<input type="checkbox"/>	<input type="checkbox"/>

## CLEAR ROOF PANEL

	1.955m	Roof Sheets	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
	1.955m	Clear Roof Panel	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
1		Clear Roof Hardware Pack	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

## SECURITY PARTS

		Security Double Door Hardware Pack	<input type="checkbox"/>	<input type="checkbox"/>
		Alarm - MA20	<input type="checkbox"/>	<input type="checkbox"/>
		Shed light	<input type="checkbox"/>	<input type="checkbox"/>
		Bolt Down Kit	<input type="checkbox"/>	<input type="checkbox"/>
		Peg Down Kit	<input type="checkbox"/>	<input type="checkbox"/>

DATE: / /

PACKED BY:

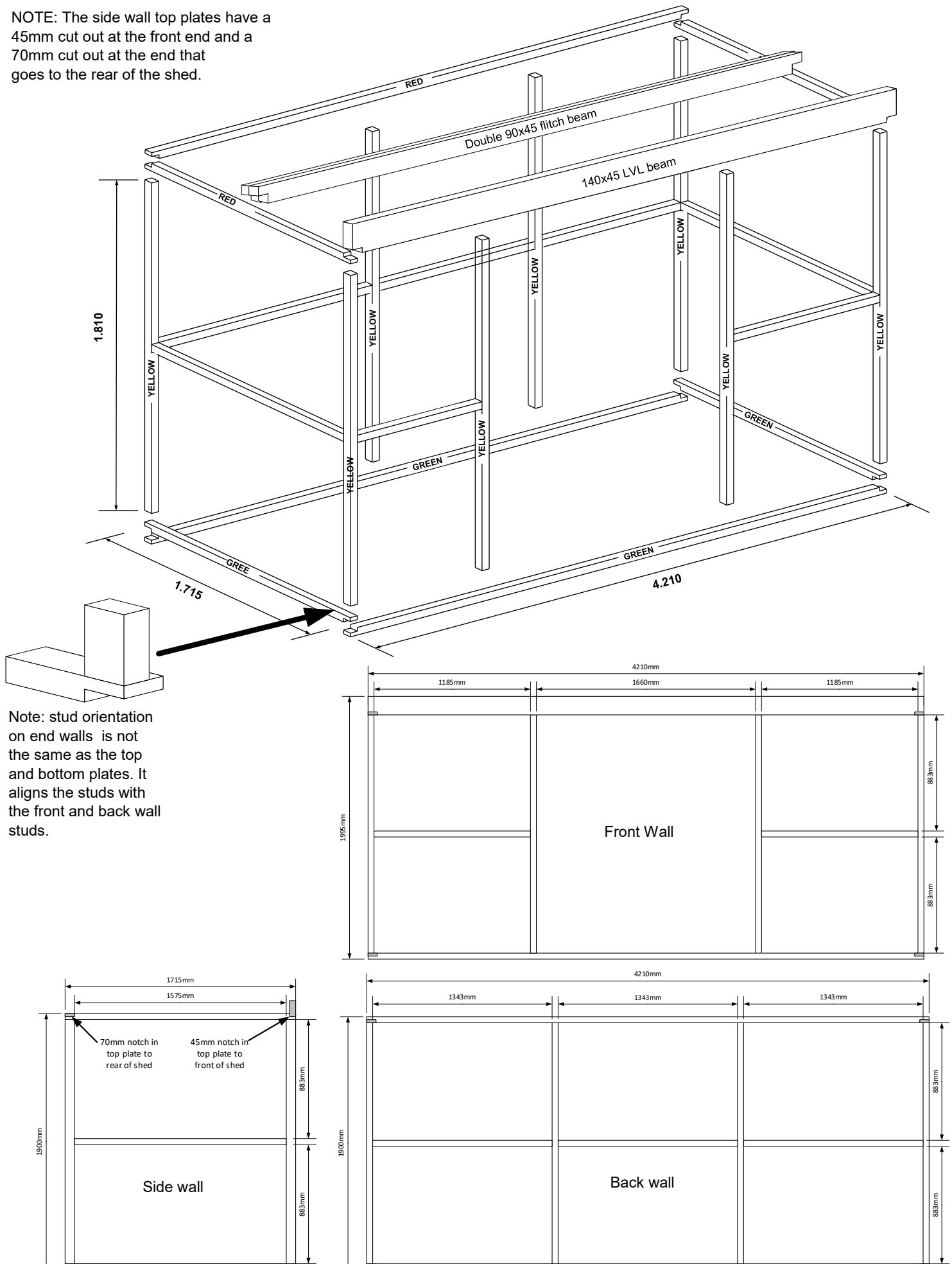
CHECKED BY:

Total Weight

kg

# DKL4217-DS TIMBER FRAME

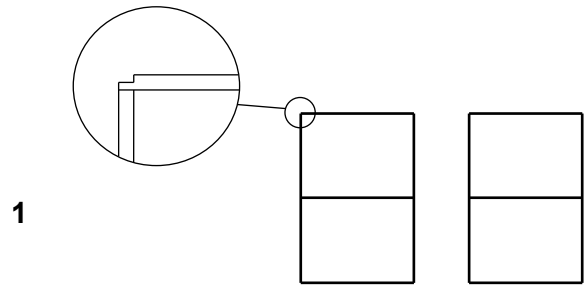
NOTE: The side wall top plates have a 45mm cut out at the front end and a 70mm cut out at the end that goes to the rear of the shed.



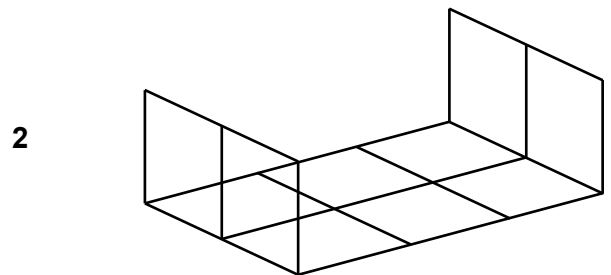
# DKL4217-DS TIMBER FRAME

**Note:** The side wall top plates (RED) will have a 45mm notch one end and a 70mm notch the other end. The 45mm notch goes to the front of the wall for the 140x45 front beam to sit into. Also note that the studs are offset to one side of the top/bottom plates and are orientated to suit the front and back walls. See image on previous page.

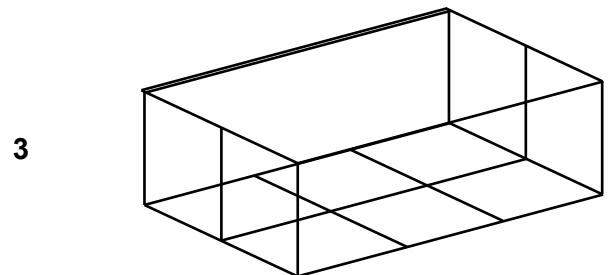
**Step 1: End Walls:** Select one 1.715m End Base Plate (Green), one 1.715m End Top Plate (Red) and two Studs (Yellow). Lay out Plates and two Studs on a flat surface and nail together using two 75mm nails per join. Position 1.575m Nog .883m down from Top Plate and nail in place. Repeat with other end wall.



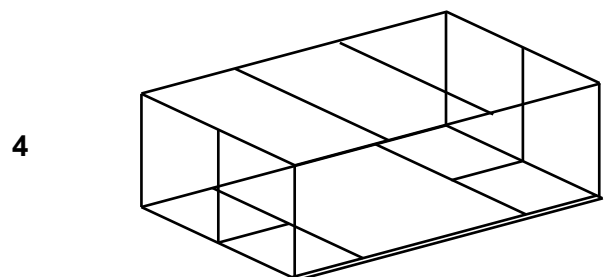
**Step 2:** Select one 4.210m Base Plate (Green), one 4.210m Top Plate (Red). Stand up End frame with the Stud side of the frame on the ground. Nail 4.210m plates to frame using two nails per join. Ensure Green joins to Green and Red joins to Red. Repeat with other end frame. Nail in back wall centre studs using 1.343m Nogs to get the correct position. Position Nogs .883m down from Top Plate and nail in place.



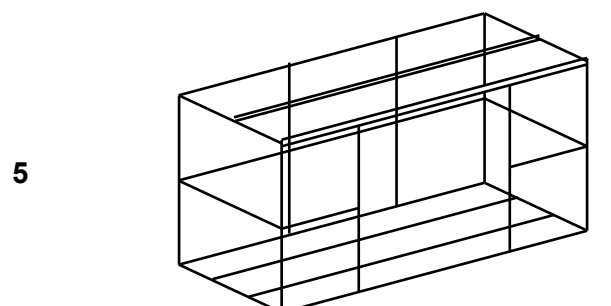
**Step 3:** Select one 4.210m Base Plate (Green) and the Ridge Beam (140 x 45). Nail in place. Ensure Green joins to Green.



**Step 4:** Carefully roll the frame over so that the Ridge Beam and Base Plate (Green) are on the ground. Select two studs (Yellow) and two 1.185m Nogs. Nail in Studs using the nogs to get the correct position top and bottom. Position nogs .883m down from the Top Plate and nail in place.



**Step 5:** Carefully roll frame over onto its base. If fitting a Kiwi Floor, fit Floor Joist now. Place the joists evenly spaced and nail in place using three 75mm nails per end. Sit the centre flitch beam in place on top plate with notches facing down. This should be central on the top plates.



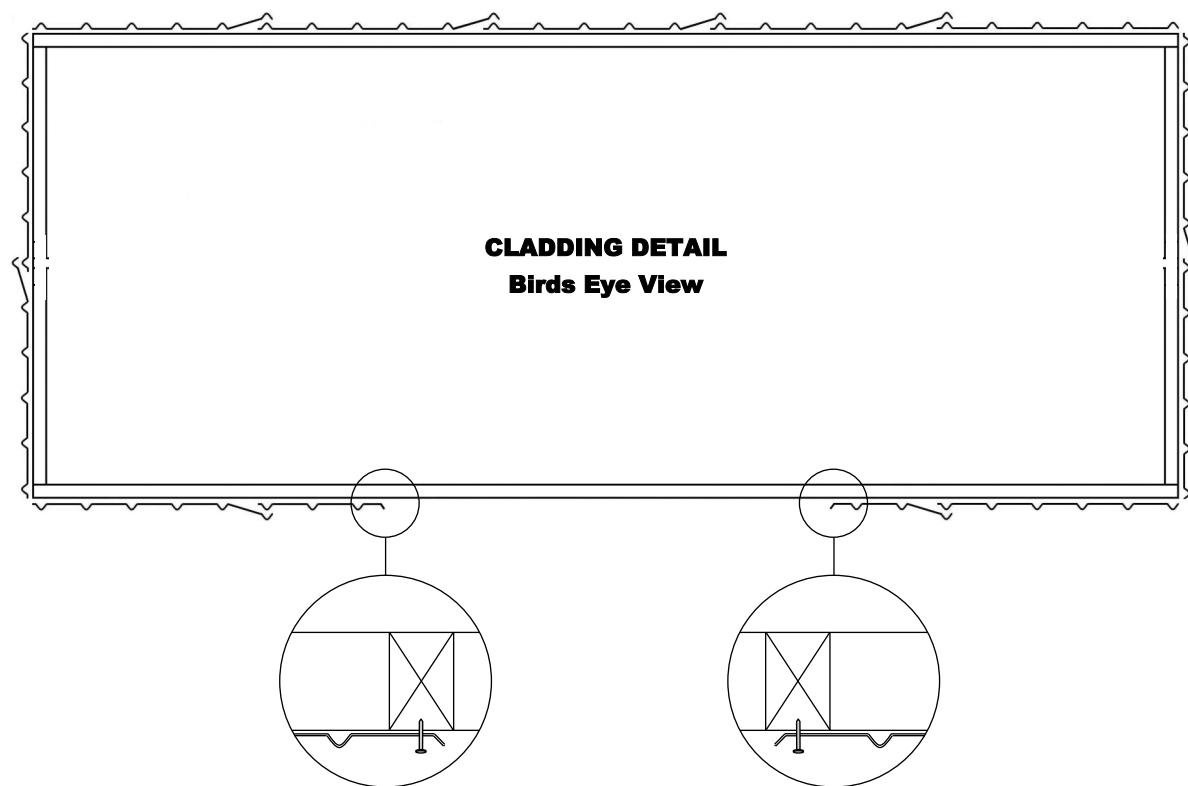
# DKL4217-DS WALL CLADDING

## TO AVIOD CORROSION:

- Where at all possible try not to trap metal filings between two sheets. Remove all metal filings before riveting.
- Carbon in pencils reacts with the Zinc/Aluminium coating on steel. Use ink to mark steel.

## TERMS EXPLANATION

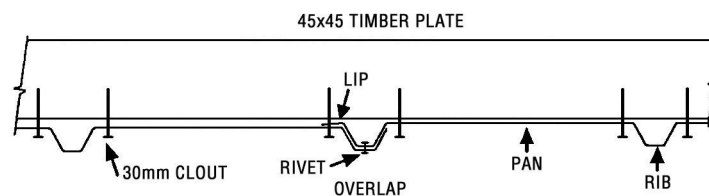
- **To Tack:** To Tack on a wall sheet means to use minimum nails hammered partly in to hold Wall Sheets in position. Should a Wall Sheet need to be re-positioned, the nails can easily be prized out.
- If a window is required, identify Wall Sheet(s) with window hole pre-cut. Lean up Wall Sheets where window(s) are to be located.



### Note:

When fitting Gable End Sheets ensure they overlap correctly (*fig 1*).

The overlap direction may differ from cladding detail below.



*fig. 1*

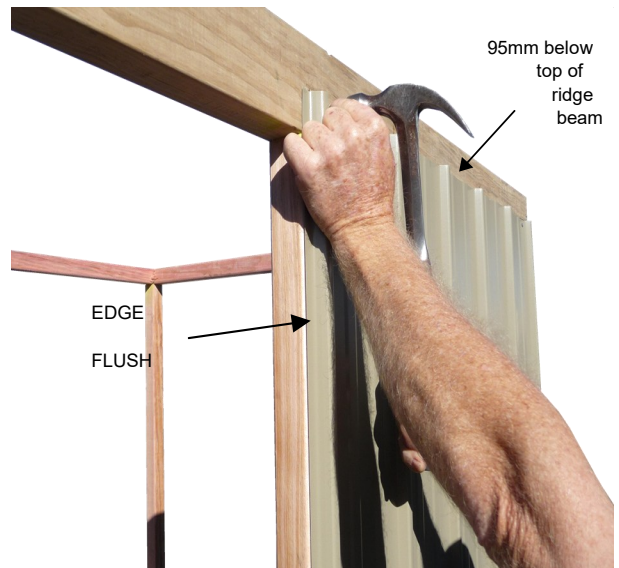


# DKL4217-DS WALL CLADDING

**Note:** For sheds with the Raised Base Plate option, the Wall Sheets will protrude 20mm below the Bottom Plate. Refer to Raised Base Plate section (Page 15).

**Step 1: Front Wall:** Position wall on the right hand side of the doorway with the sheet LIP on the left hand side. Ensure the LIP is flush with the side of the Stud and **the top of the sheet is 95mm below the top of the Ridge Beam**, tack in place.

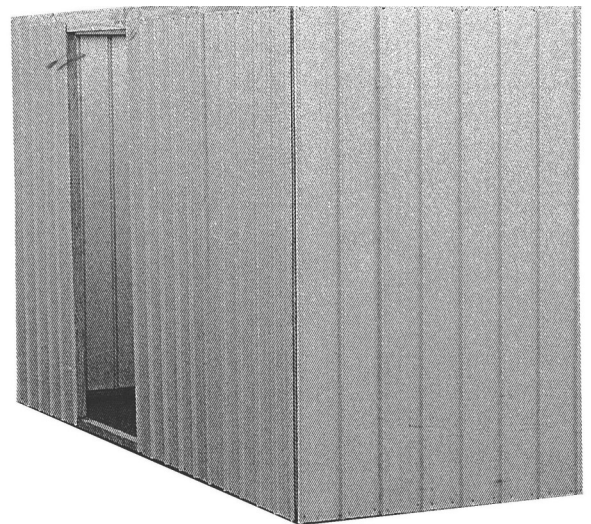
Note: Centre beam not shown in these images



**Step 2: Back Wall:** Position the first Wall Sheet with the LIP on the right hand side. Ensuring the LIP is flush with the side of the corner Stud and the top of the Wall Sheet is flush with the top of the Top Plate, tack in place. Position the next Wall Sheet with the LIP on the right hand side. Overlap as shown in **fig 1 on page 7**. Ensuring Wall Sheet is flush with top of Top Plate, tack in place. Repeat with remaining Wall Sheet.



**Step 3: End Walls:** Position wall sheet with the LIP flush with the side of the stud and the top of the Wall Sheet is flush with the top of the Top Plate, tack in place. Position next wall sheet and Overlap as shown in **fig 1 on page 7**. Ensuring Wall Sheet is flush with top of Top Plate, tack in place. Repeat with remaining wall sheets. Repeat with the other end. If fitting a window, nail in Window Studs and Nog now. Refer to Window instructions.

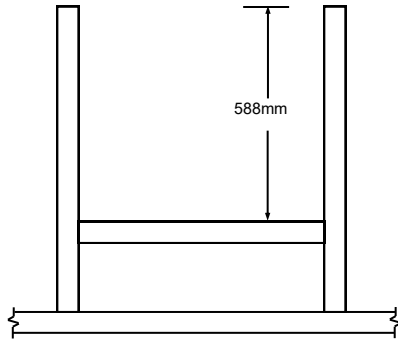


**Step 4: Nailing Off:** Nail one 30mm Clout each side of the Rib (two per Pan) into the Top Plates and Bottom Plates. Nail Wall Sheets to mid wall Nogs (one per pan). Nail each corner Wall Sheet to Studs using two 30mm Clouts evenly spaced.



# DKL4217-DS WINDOW (Optional)

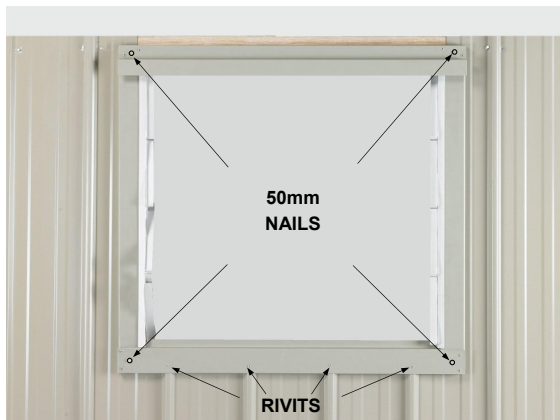
## LOUVRE WINDOW



**Step 1:** Lay out the two window studs (883mm) and Nog (634mm) on a flat surface. Position Nog and nail in place using 2x 75mm nails at each end.



**Step 2:** On the inside of the shed, position studs and Nog centrally on window opening. Make sure the studs are parallel and nail into Top Plate and End Wall Nog.

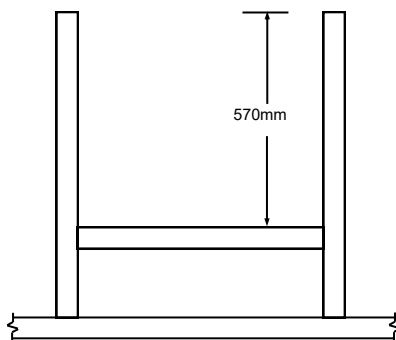


**Step 3:** Nail wall Sheets to window framing using 30mm clouts. (return to step 4 on page 7 and complete). Then fit Window Frame). Position Window Frame centrally on window opening and rivet it to ribs. Pre-drill holes in each corner and nail Window Frame to framing, using 50mm nails.



**Step 6:** From the inside of the shed, slide Louvre Glass into Louvre Units attached to the Window Frame. Bend up tabs to keep Glass in position.

## FIXED WINDOW



**Step 1:** Lay out the two window studs (883mm) and Nog (590mm) on a flat surface. Position Nog and nail in place using two 75mm nails at each end.

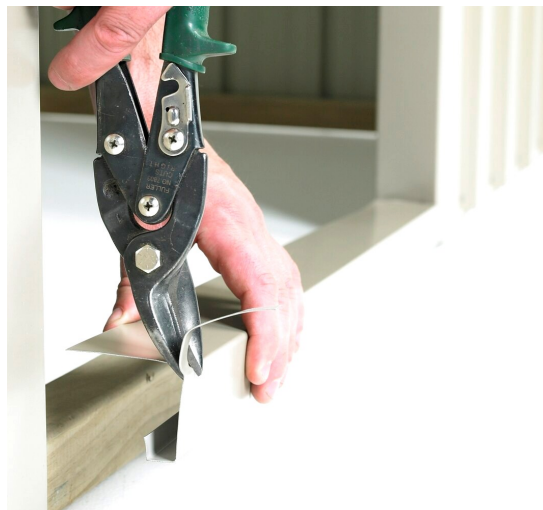


**Step 6:** From the outside of the shed, place glass in Window Frame. Attach a Glazing Bead (G100) with three rivets to each side of the Window Frame to hold glass in place. Pre-drilling Glazing Beads is recommended.

# DKL4217-DS DOOR JAMB & CORNER FLASHINGS



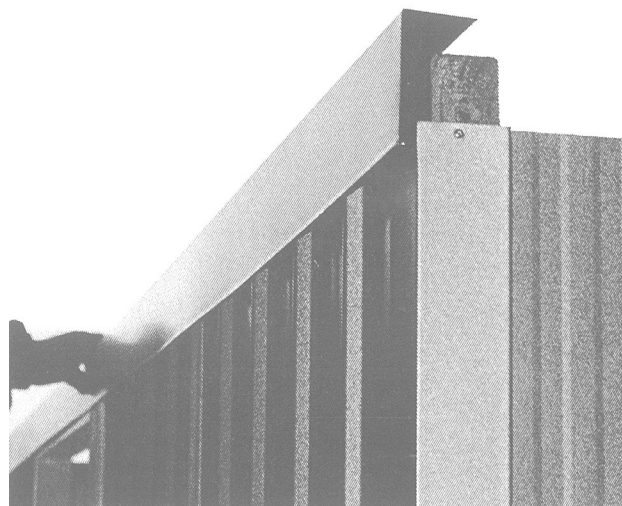
**Step1:** Fit Door Jamb Flashing (104) in between Top and Bottom Plates and hard against Stud. Attach Door Jamb Flashing with three rivets into Rib on the outside and three 30mm clouts into studs on the inside. Repeat with the other Door Jamb.



**Step2:** Measure and cut Doorstep Flashing (B106) to fit in between Door Jambs. Position the Doorstep Flashing in between the Door Jambs at bottom of doorway, nail through top of flashing using three 30mm Clouts. Repeat with the Overdoor Flashing (B105).



**Step 3:** Fit remaining three Corner Flashings over corner Ribs and rivet in place using six rivets per flashing. When fitting right hand Corner Flashing on the front wall, ensure it is parallel with the Door Jamb.



**Step 4:** Position Ridge Cover (C109) on Ridge Beam. While holding straight and square, nail top of Ridge Cover Flashing to Ridge Beam using four 30mm clouts. Rivet front of Ridge Cover to Ribs and Flashings using thirteen rivets.

# DKL4217-DS DOORS

**Step 1:** Position Right-hand Door Track (107) on the front wall with the top of the track 95mm below the top of the timber frame. The right-hand end should be flush with outside edge of right-hand corner flashing.

Pre-drill a hole in the centre of the track and screw in place using one 45mm door track screw. Remove ALL drill filings

**Note:** *Ensure Door Track screws are screwed in horizontal and screwed hard into flashing. Protruding screw heads can cause door rollers to bind on the screw heads.*

**Step 2:** Hang right hand door in Door Track. At the right hand end of Door Track, adjust up or down so that the Door hangs parallel with shed. Fit one rivet at right hand end to hold in place. Repeat with left hand end of track.

**Note:** *Only use rivets at each end of track.*

**Step 3:** Position left hand Door Track (107). Follow Steps 1 and 2 to hang left hand Door. Where Door Tracks meet in the centre, adjust up and down so that the Doors fit snugly together, then rivet in place.

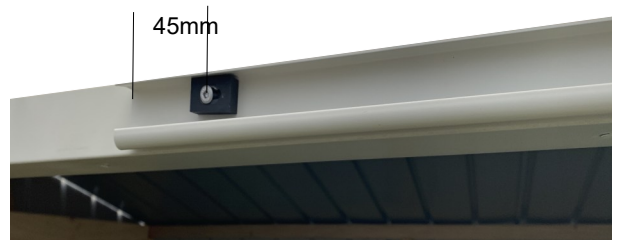
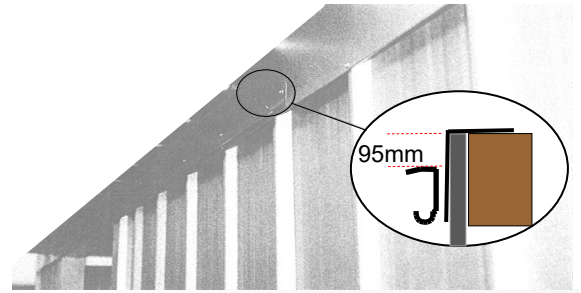
**Step 4:** Remove Doors. Pre-drill and screw another 2 screws between the centre screw and the rivets at each end of tracks (5 screws per track). Screw tracks using 45mm door track screws.

**Step 5:** Clean out ALL drill filings. Also make sure the Wheels are cleaned of drill filings. Re-hang Doors.

Fit outer door stops. Predrill a hole 45mm in from outside edge of Corner Flashing and screw outer door stops in using one Roofing screw per stop. Check doors do not protrude past outside edge of shed.

Fit inner door stops. Predrill a hole 45mm each side of centre and screw inner door stops in using one Roofing screw per stop.

**Note—** adjust centre door stops left and right to ensure doors close correctly.



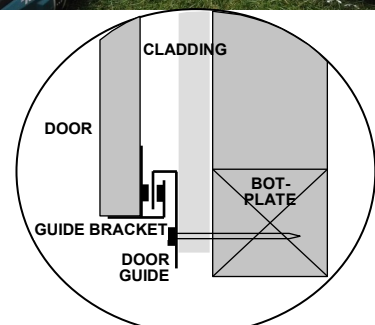
# DKL4217-DS DOORS

**Step 6:** Bottom Door Guide: Slide the Door to open position. Place the Door Guide (108) over the Guide Brackets on the door. Ensure it is 20mm from centre of door opening.

**Step 7:** Lift the door guide up approximately 3mm so that the Door will Slide freely. Pre-drill a hole through the door guide and the end rib of the cladding and screw in place using a 45mm screw.

**Step 8:** Slide the door to the centre, ensuring that it slides freely. Pre-drill and insert a screw in the other end of the Door Guide. Check that the Door is not binding in the middle then pre-drill and fix with 3 more screws, one in the centre of the guide and the other 2 evenly spaced between (5 screws per guide) into the door step flashing and rib. Repeat with 2nd door.

**Note:** For sheds with Raised Base Plate option the Door Step Flashing will protrude down past the Bottom Plate. Attach Door Guide with rivets.





# DKL4217-DS ROOF

**Note:** Condensation can form on the under side of shed roof. If building paper is required, fit now. Building paper will need to be supported by netting or roofing twine.

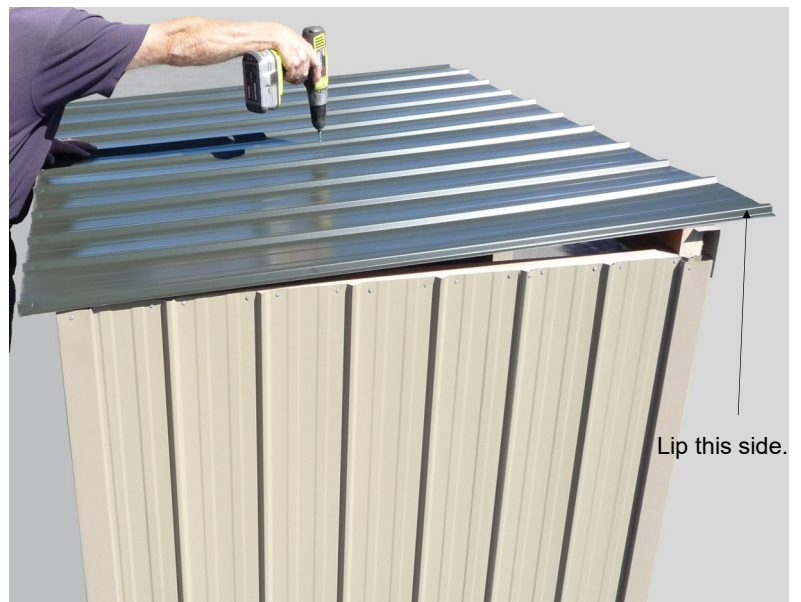
**Roof with Clear Panel:** Handle Clear Panel with care. The Clear Panel will crack if not fitted correctly.

**Riveting:** Pre-drill 3.5mm hole through Clear Panel and Steel. Enlarge hole in Clear Panel with drill to allow for expansion and contraction.

**Screwing:** Pre-drill a 6mm hole through the Clear panel.

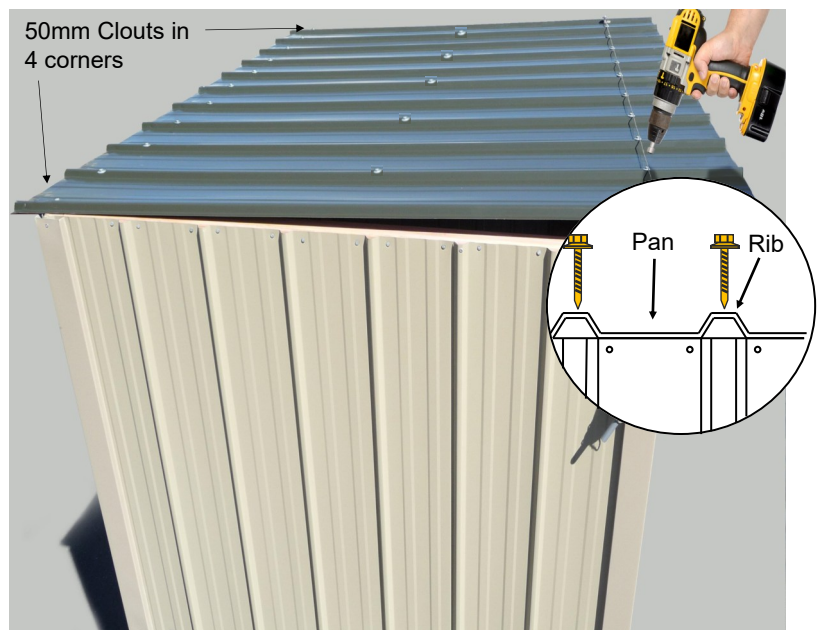
**Step 1:** Check that the diagonal measurements of the shed are the same. If building on unlevel ground it may be necessary to temporarily brace the shed with pieces of timber from the packaging.

**Step 2:** Position first Roof Sheet on the right hand side of the shed with the LIP on the left hand side. Position the next Roof Sheet. Ensure it overlaps correctly (when fitting a Clear Roof Panel, ensure it OVERLAPS Roof Sheet). Rivet sheet joins 500mm from edge, front and back. Position and rivet remaining sheets.

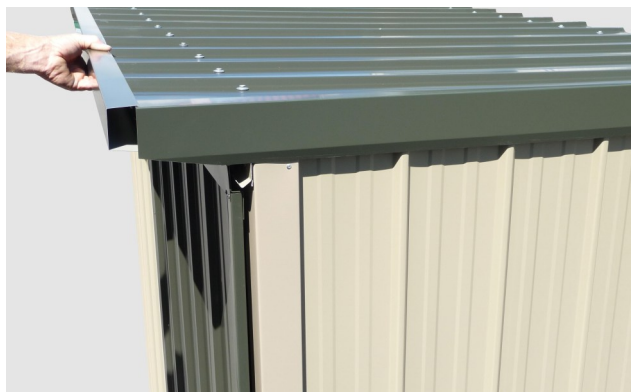


**Step 3:** Position roof so that the front overhang measures 140mm. Line up Ribs on the Roof Sheets with Ribs on the Wall Sheets. Ensure plates are straight then screw roof to Top plates using one 50mm Roofing Screw on each Rib front and back and then every second rib into the centre beam.

(Using 4 x 50mm galv clouts, nail clouts on the outside ribs only, as these are covered by the Barge flashing.



## DKL4217-DS BARGE & SPOUTING



**Step 1:** Position Barge Flashing (G102) on shed end walls. Position a Spouting (A103) and rivet to the Barge Flashing at each end. Repeat with other Spouting.

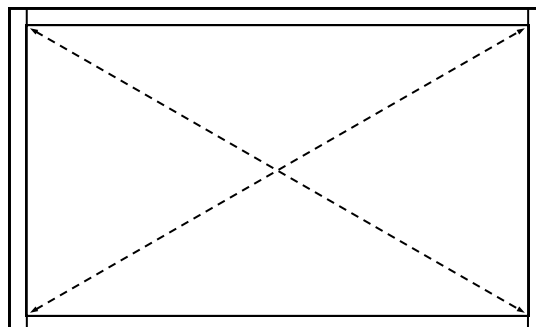
**Note:** Barge flashings will be taller from front to back to accommodate the 140mm tall front beam, not straight as shown above. Fitment is the same as above.



**Step 2:** Centralise Barge Flashing on end wall and rivet in place, one rivet into every second Rib. Fit two rivets through top of Barge into Rib. Repeat with other Barge Flashing. Check Spoutings are straight, then rivet to Roof one rivet every second Rib.

## DKL4217-DS FLOOR

**Step 1:** Place shed in final position. Check the diagonal measurements are the same and the shed is level before fitting Floor. It is recommended that the shed is anchored down with either a Duratuf Bolt Down Kit or Duratuf Peg Down Kit depending on what the shed is sited on.



**Step 2:**

Lay a Floor Board on top of Bottom Plates and Joist and push up against end wall. Mark out where Studs are. Cut checkouts with Electric Jig-saw so Floor Board will fit around Studs.



**Step 3:** Re-position Floor Board. Lay out remaining Floor Boards checking around Studs as you go. The last Floor Board may have to be cut to size.



# DKL4217-DS FLOOR

**Step 4:** Nail in each Floor Board, two 50mm nails in each end and two into Joists. Measure and cut Floor Flashing (A110) to fit in between Door Jamb Flashings and nail in place using 50mm Clouts.



## SECURITY DOOR (Optional)

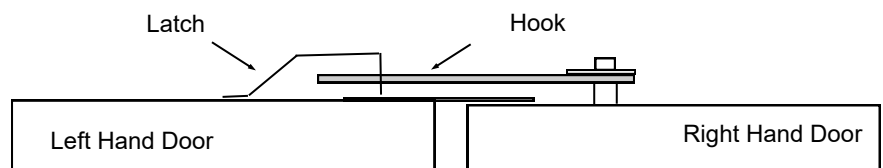


**Step 1:** Attach "T" locking handle with two 8x10mm screws TO R/H door (Door without the weather-strip). Slide hook onto square shaft and secure with a lock washer.



**Step 2:** Once doors are hung, position the Locking Stays so they slide into the Locking Brackets easily. Screw Locking Stays to Door Jamb.

**Step 3:** On the back of the left hand door, position latch so that the hook on the door handle will be secure and go in and out easily. Rivet in place with four rivets.



## DKL4217-DS HASP & STAPLE



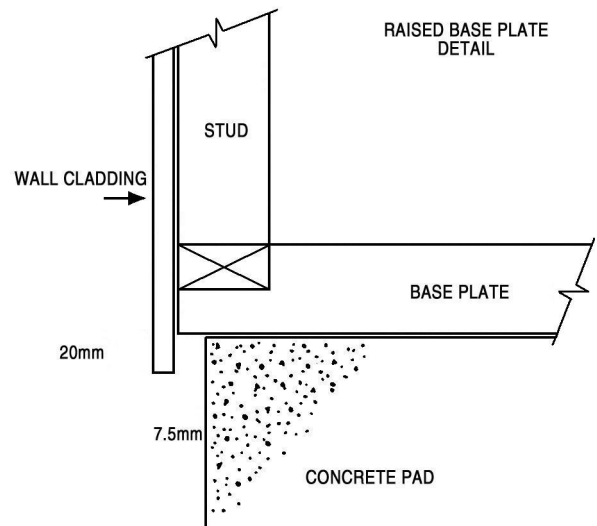
Using seven rivets attach hasp to Left Hand Door and the staple to the Right Hand Door as shown.

## RAISED FLOOR MODIFICATION

For sheds being placed on a purpose built floor, (concrete, cobbles, ply etc.), the Wall Sheets will protrude 20mm below the Base Plate. This will stop water flowing in between the Base Plate and Floor.

The Floor should be made 15mm smaller than Base Size.

**Note:** Although it is not essential, fitting Damp Proof Course in between the Base Plate and the Floor will give added protection against moisture.



## CLEAN UP

- Remove all swarf (drill filings) with a soft brush or rag.
- Hose down roof and walls thoroughly.
- For Coloursteel sheds use touch-up paint provided on all nail heads, rivets and exposed cuts.



## DURATUF PREMIUM SHED WARRANTY

### GUARANTEE TO CUSTOMER

Congratulations on purchasing a Duratuf Storage Shed. With proper care and attention, this product will last many years. For your benefit **PLEASE READ THE FOLLOWING INFORMATION CAREFULLY.**

### WARRANTY ON METAL CLADDING

Riverlea Group Ltd guarantee that the metal roofing and wall cladding on Kiwi and Fortress Garden Sheds may be used in moderate and inland corrosion zones or areas where the first year mild steel corrosion rate is less than 200g/m<sup>2</sup>, and that in these conditions, they will not perforate due to corrosion within 30 years of date of manufacture.

### TERMS AND CONDITIONS

1. Damage or corrosion due to the following circumstances is not covered by this warranty.
  - ♦ Mechanical, chemical or other damage sustained during or after installation.  
**NOTE:** Clean swarf off shed **IMMEDIATELY** after assembly  
Do **NOT** mark cladding with pencil  
Do **NOT** allow manures, chemicals or other corrosive materials to have direct contact with cladding  
Chemical damage will result if these instructions are not carried out
  - ♦ Force majeure or other causes beyond the control of Riverlea Group Ltd.
2. This warranty does not cover material installed in severe and very severe environmental situations, or in any area where the mild steel corrosion rate (as published by BRANZ) exceeds 200g/m<sup>2</sup>.
3. Minimum maintenance must be carried out in accordance with instructions below.

Should the cladding fail to perform as specified above, the liability of Riverlea Group Ltd shall in all cases be limited to replacing or repairing the defective product. The balance of the original warranty will cover any repaired or replaced material. Riverlea Group Ltd will not be liable for any consequential loss or damage, labour or transport charges. All claims made in writing within 21 days of discovery, quoting the reference number at the top right hand corner of this page.

### MAINTENANCE

Following are the minimum maintenance requirements for cladding used in Kiwi Garden Sheds and Fortress Sheds.

- ♦ Washing all surfaces by rain, and annual hosing of sheltered areas using a hose and soft nylon brush.
- ♦ Within 2km of coast—wash every 3 months as above. After a storm, wash the cladding and the gutters as soon as possible to remove any highly corrosive salt deposits.
- ♦ Volcanic Ash Fallout—wash as soon as possible, removing fallout from roof and gutters
- ♦ Gutters to be kept clean of leaves and dirt.

Should you require additional technical information please contact us at the details below.

## WARRANTY REGISTRATION

Please visit [www.duratuf.co.nz/warranty](http://www.duratuf.co.nz/warranty) to validate the Warranty on your shed.

Click on the Warranty Registration Link and complete all details.

If you are unable to access the computer, please phone us on 0800 438 274 and one of the customer services team will help you to activate the warranty on your garden shed.

*Many thanks, from the Team at Riverlea Group.*