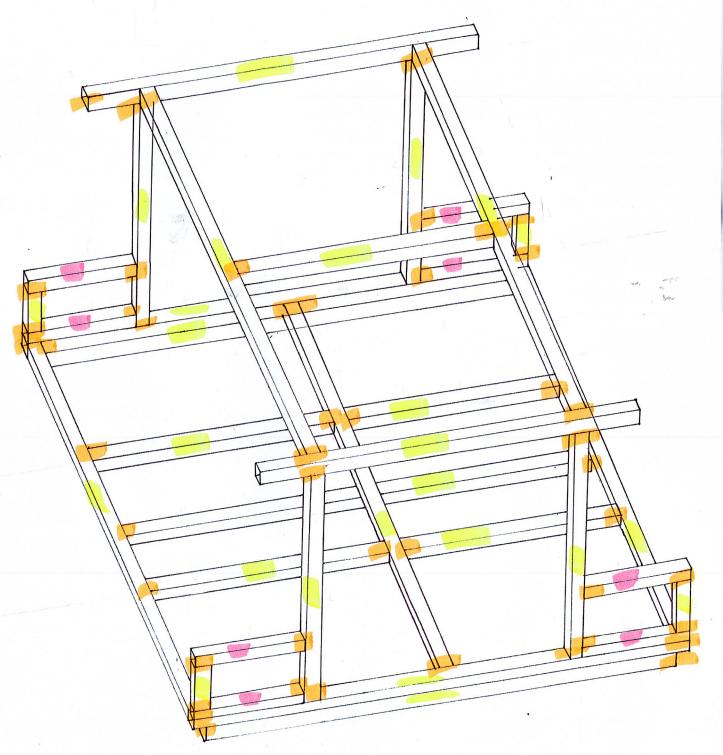
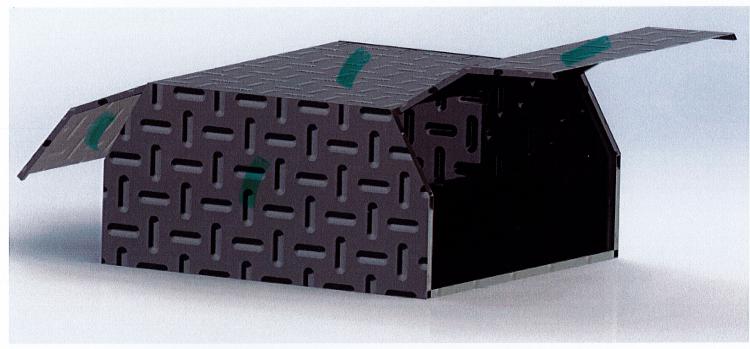


Parts list





	50 x 40 x 3 mm Aluminium Tube
	40×40+3mm Aluminium Tube
	3mm Checker Plate Aluminium
•	Tig welder
Sheet - Tube weld	Mig welder

Production Plan

Time	Operation Description	Process	Tools Required	Materials	Quality assurance checks	Safety	Comments of change
	Mark and cut out the	Measure and Mark	Tape Measure, Pencil	40x50mm Aluminium Tube	Measure Twice to ensure correct length		
	aluminium tubing for the bottom frame	Cut correct sizes	Drop Saw	40x50mm Aluminium Tube	Use a jig to make sure the cut is square.	Make sure bladed is sharp so it doesn't grab the metal. Eye and ear protection	
	Lay out and clamp the outer square of the tubing and check	Clamp the tubing into the shape	Square Clamps	40x50mm Aluminium Tube	Use Try square to ensure it is square		
	measurements and tac the outside edges	Tac the tubing	TIG Welder	40x50mm Aluminium Tube	Make sure Gas is on and correct amps on welder	Eye protection, some form of long clothes	
	Weld the seams of the outer square up	Tig weld the seams up	TIG Welder	40x50mm Aluminium Tube	Make sure Gas is on and correct amps on welder	Eye protection, some form of long clothes	
	Lay out the floor bracing tube	Clamp the tubing into place	Clamps	40x50mm Aluminium Tube	Use Try square to ensure it is square		
	and clamp it in place and tac weld them in place	Tac the tubing	TIG Welder	40x50mm Aluminium Tube	Make sure Gas is on and correct amps on welder	Eye protection, some form of long clothes	
	Weld the seams of the floor bracing	Tig weld the seams up	TIG Welder	40x50mm Aluminium Tube	Make sure Gas is on and correct amps on welder	Eye protection, some form of long clothes	
		Measure and Mark	Tape Measure, Pencil	40x50mm Aluminium Tube	Measure Twice to ensure correct length		,
	Measure and cut uprights for the frame	Cut correct sizes	Drop Saw	40x50mm Aluminium Tube	Use a jig to make sure the cut is square	Make sure bladed is sharp so it doesn't grab the metal. Eye and ear protection	
	Clamp and tac the uprights	Clamp the tubing into place	Clamps	40x50mm Aluminium Tube	Use Try square to ensure it is square		
	onto the bottom frame	Tac the tubing	TIG Welder	40x50mm Aluminium Tube	Make sure Gas is on and correct amps on welder	Eye protection, some form of long clothes	
	Weld up the seams of the uprights on the bottom frame	Tig weld the seams up	TIG Welder	40x50mm Aluminium Tube	Make sure Gas is on and correct amps on welder	Eye protection, some form of long clothes	

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	Measure and Mark	Tape Measure, Pencil	40x50mm Aluminium Tube *	Measure Twice to ensure correct length		
Measure and cut roof frame tubing	Cut correct sizes	Drop Saw	40x50mm Aluminium Tube	Use a jig to make sure the cut is square	Make sure bladed is sharp so it doesn't grab the metal. Eye and ear protection	
Clamp and Tac the top roof	Clamp the tubing into place	Clamps	40x50mm Aluminium Tube	Use Try square to ensure it is square		
frame	Tac the tubing	TIG Welder	40x50mm Aluminium Tube	Make sure Gas is on and correct amps on welder	Eye protection, some form of long clothes	
Weld up the seams of the top frame	Tig weld the seams up	TIG Weldeŗ	40x50mm Aluminium Tube	Make sure Gas is on and correct amps on welder	Eye protection, some form of long clothes	
Clamp the top frame onto the	Clamp the tubing into place	Clamps	40x50mm Aluminium Tube	Use Try square to ensure it is square		
uprights and tac it into place	Tac the tubing	TIG Welder	40x50mm Aluminium	Make sure Gas is on and correct amps on welder	Eye protection, some form of long clothes	
Weld the seams up connecting the top frame to the rest	Tig weld the seams up	TIG Welder	40x50mm Aluminium Tube	Make sure Gas is on and correct amps on welder	Eye protection, some form of long clothes	
	Measure and mark	Tape Measure, Pencil	40x50mm Aluminium Tube	Measure Twice to ensure correct length		
Measure and cut tubing for the under support beams	Cut correct size	Drop Saw	40x50mm Aluminium Tube	Use a jig to make sure the cut is square	Make sure bladed is sharp so it doesn't grab the metal. Eye and ear	
Clamp and TAC the under support beams to the frame	Clamp tubing into place	Clamps	40x50mm Aluminium Tube	Use Try square to ensure it is square	protection	
	Tac the tubing	TIG Welder	40x50mm Aluminium Tube	Make sure Gas is on and correct amps on welder	Eye protection, some form of long clothes	
Weld up the seams connecting the beams to the frame	Tig Weld the seams up	TIG Welder	40x50mm Aluminium Tube	Make sure Gas is on and correct amps on welder	Eye protection, some form of long clothes	

Time	Operation Description	Process	Tools Required	Materials	Quality assurance checks	Safety	Comments of change
		Measure and mark	Tape Measure, Pencil	3mm Aluminium Sheet	Measure Twice to ensure correct length		
	Mark and cut the 2 side sheets	Cut	Guillotine	3mm Aluminium Sheet	Use a jig to make sure the cut is square	Eye and ear protection	
	Clamp 1 sheet on the framing	Clamp the sheet to the tubing	G clamps	3mm Aluminium Sheet	Make sure the edges sit square with the tubing		
	and tac the sheet onto the frame	Tac the sheet to the tubing	Tig Welder	3mm Aluminium Sheet	Make sure Gas is on and correct amps on welder	Eye protection, some form of long clothes	
	Clamp the other sheet onto	Clamp the sheet to the tubing	G clamps	3mm Aluminium Sheet	Make sure the edges sit square with the tubing		
	the framing and tac	Tac the sheet to the tubing	Tig Welder	3mm Aluminium Sheet	Make sure Gas is on and correct amps on welder	Eye protection, some form of long clothes	
	Fully weld the sheet to the tubing	Weld the sheet to the tubing	Tig Welder	3mm Aluminium Sheet	Make sure Gas is on and correct amps on welder	Eye protection, some form of long clothes	
Same of the state of	Measure, mark and cut out the	Measure and mark	Tape Measure, Pencil	3mm Aluminium Sheet	Measure Twice to ensure correct length		
	2 pieces for the floor	Cut	Guillotine, Angle Grinder	3mm Aluminium Sheet	Use a jig to make sure the cut is square	Eye and ear protection	
	Clamp and tac one of the	Clamp the sheet to the tubing	G clamps	3mm Aluminium Sheet	Make sure the edges sit square with the tubing		
	flooring pieces	Tac the sheet to the tubing	Tig Welder	3mm Aluminium Sheet	Make sure Gas is on and correct amps on welder	Eye protection, some form of long clothes	1
	Clamp and tac the other piece	Clamp the sheet to the tubing	G clamps	3mm Aluminium Sheet	Make sure the edges sit square with the tubing		
	to the bottom of the frame	Tac the sheet to the tubing	Tig Welder	3mm Aluminium Sheet	Make sure Gas is on and correct amps on welder	Eye protection, some form of long clothes	
	Fully weld the floor sheets onto the tubing	Weld the sheet to the tubing	Tig Welder	3mm Aluminium Sheet	Make sure Gas is on and correct amps on welder	Eye protection, some form of long clothes	
	Measure, mark and cut the	Measure and mark	Tape Measure, pencil	3mm Aluminium Sheet	Measure Twice to ensure correct length		
	sheet for the 4 side door jams	Cut	Guillotine, Angle Grinder	3mm Aluminium Sheet	Use a jig to make sure the cut is square	Eye and ear protection	

	Measure and mark	Tape Measure, pencil	3mm Aluminium Sheet	Measure Twice to ensure correct length		
Mark and fold the door jams	fold	Folder	3mm Aluminium Sheet	Make sure it's all lined up and correct folding lines	Keep hands clear off moving parts	
Fit and tac the door jams into	Clamp door jams to the side sheet	Clamps	3mm Aluminium Sheet	Make sure it sits square and straight		
place	Tac the sheeting together	Tig Welder	3mm Aluminium Sheet	Make sure Gas is on and correct amps on welder	Eye protection, some form of long clothes	
Measure, mark and cut the 2	Measure and mark	Tape Measure, pencil	3mm Aluminium Sheet	Measure Twice to ensure correct length		
bottom door jams	Cut	Guillotine, Angle Grinder	3mm Aluminium Sheet	Use a jig to make sure the cut is square	Eye and ear protection	
Mark and fold the bottom	Measure and mark	Tape Measure, pencil	3mm Aluminium Sheet	Measure Twice to ensure correct folds are made		
door jams	fold	Folder	3mm Aluminium Sheet	Make sure it's all lined up and correct folding lines		
Fit and tac the bottom door	Clamp into place	Clamps	3mm Aluminium Sheet	Make sure it sits square and straight		
jams to the bottom sheeting	Tac the sheets together	Tig Welder	3mm Aluminium Sheet	Make sure Gas is on and correct amps on welder	Eye protection, some form of long clothes	
Flip over and weld up the	Flip the canopy	People	3mm Aluminium Sheet	Sit it on something so it doesn't scratch		
bottom door jams fully	Weld the sheeting	Tig Welder	3mm Aluminium Sheet	Make sure Gas is on and correct amps on welder	Eye protection, some form of long clothes	
Flip the canopy back over and	Flip the canopy	People	3mm Aluminium Sheet	Sit it on something so it doesn't scratch		
mark the sheet sizes to fit the roof	Measure and mark	Tape Measure, pencil	3mm Aluminium Sheet	Measure Twice to ensure correct length	,	
Cut and fit and clamp the roof	Cut	Guillotine, Angle Grinder	3mm Aluminium Sheet	Use a jig to make sure the cut is square	Eye and ear protection	
to the canopy	Fit and Clamp	People, Clamp	3mm Aluminium Sheet	Make sure it sits square and straight		
Fully weld the front and back of the roof sheet to the front and back sheets	Weld the sheeting	Tig Welder	3mm Aluminium Sheet	Make sure Gas is on and correct amps on welder	Eye protection, some form of long clothes	
Fully weld the side door jams	Weld the sheeting	Tig Welder	3mm Aluminium Sheet	Make sure Gas is on and correct amps on welder	Eye protection, some form of long clothes	

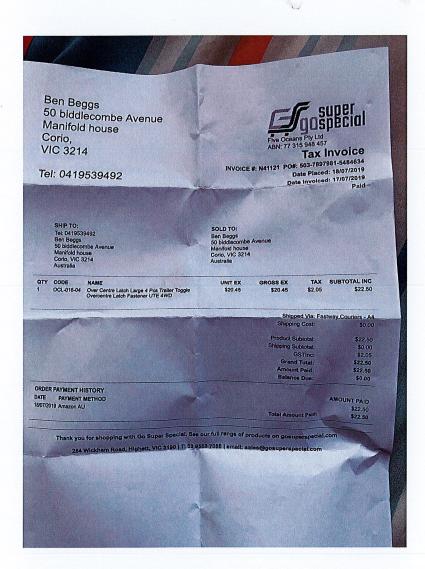
Measure, mark and cut the	Measure and Mark	Tape Measure, pencil	3mm Aluminium Sheet	Measure Twice to ensure correct length		
sheeting to make the doors	Cut	Guillotine, Angle Grinder	3mm Aluminium Sheet	Use a jig to make sure the cut is square	Eye and ear protection	
Mark and fold the sheeting to	Measure and Mark	Tape Measure, pencil	3mm Aluminium Sheet	Measure Twice to ensure correct folds are made		
create the doors	Fold	Folder	3mm Aluminium Sheet	Make sure it's all lined up and correct folding lines		
Mark the location of hinges	Measure and Mark	Tape Measure, pencil	3mm Aluminium Sheet	Measure Twice to ensure correct folds are made		
and gas struts and drill holes to mount	Drill holes	Cordless Drill	3mm Aluminium Sheet	Use clear makings so the correct spot is drilled	Eye and ear protection	
Measure and mark where the	Measure and Mark	Tape Measure, pencil	3mm Alūminium Sheet	Measure Twice to ensure correct folds are made		
locks will go on the doors and cut out the lock holes	Cut	Jig Saw	3mm Aluminium Sheet	Follow the markings to ensure correct cuts are made	Eye and ear protection	
Fit the locks, and gas struts to	Fit locks	Screw Driver	3mm Aluminium Sheet	Make sure they are in the correct location and correct way up		
the doors	Fit Gas Struts	Spanner	3mm Aluminium Sheet	Make sure they are in the correct location and correct way up		
Fit the hinges to the door and	Fit Hinges	Screw Driver, Spanner	3mm Aluminium Sheet	Make sure they are in the correct location and correct way up		(
then fit the door to the canopy	Fit Door	Screw Driver, Spanner, People	3mm Aluminium Sheet	Make sure everything fits evenly and is square		
Open the deer and drill hele	Open door	Arms, Hands	3mm Aluminium Sheet	Make sure it opens how it should		
Open the door and drill hole for the gas struts on the body	Mark and drill gas strut location	Tape Measure, pencil, Cordless Drill	3mm Aluminium Sheet	Use clear makings so the correct spot is drilled		
Fit the gas strut and make sure	Fit Gas Strut	Spanner	3mm Aluminium Sheet	Make sure it's in the correct location.		
it opens correctly	Open door	Hand	3mm Aluminium Sheet	Make sure it opens how it should		

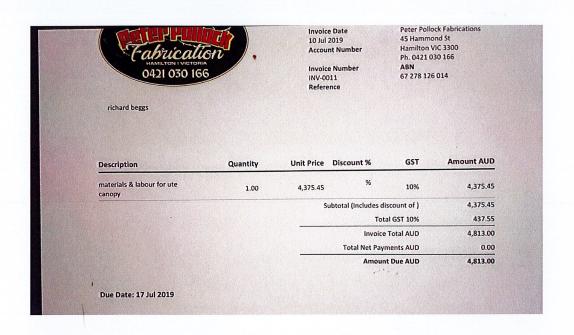
QUALITY MEASURES								
Pre-Production	Check materials to make sure they look good are square and are going to be structurally sound for the job. Check tool to make sure the blades are sharp, everything is tight, and nothing is broken. Make sure that the user has adequate training and practice. Machines are set up correctly.							
Production	Measure twice, cut once. Make sure markings are all correct. Use Squares and guides.							
Cutting	Cut the material as close as you can get to avoid any little off cuts or needing to cut again. Follow the blade guides and allow for blade thickness.							
Folding	Follow the correct markings and make sure it's all square before folding. Use a protractor to make sure the angle is exact.							
Welding	The material is clean around the weld location. The materials are square and straight when being welded. Use the correct amps for the metal thickness. Weld at the optimum distance from the metal with the right angle to get a good weld pool.							
Assembling	Dry fit to make sure it fits. Make sure the welds are good and strong. Use clamps to hold in place. Check all measurements and angles before welding to avoid mistakes.							

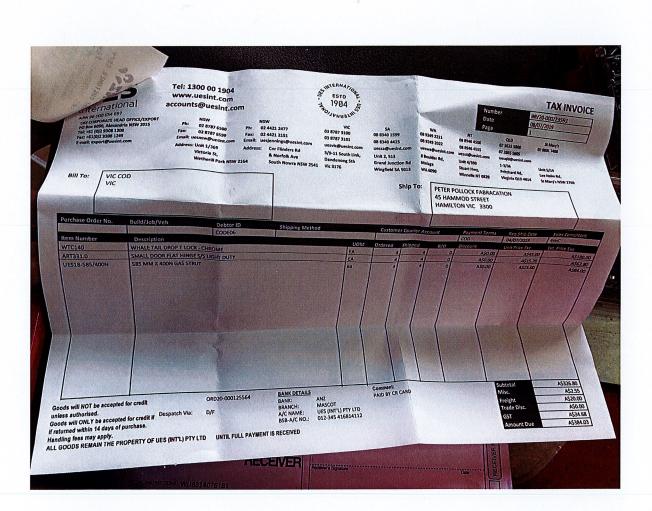
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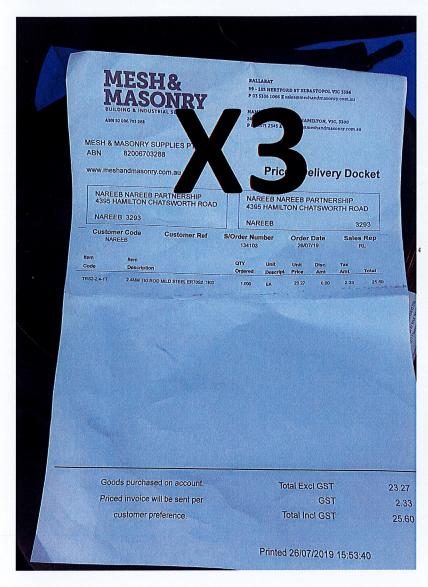
Costings

Materials and Labour	\$4813.00
Consumables	\$76.80
Canopy Components	\$406.50
TOTAL COST	\$5296.30









		Risk A	Assessment			
Equipment/ Tools	Stage of Production	Hazards	Possible Injuries	Seriousness Low 1-2 Medium 3 High 4-5	Likelihood Low 1-2 Medium 3 High 4-5	PPE
Welder (MIG)	Welding the sheet aluminium to the tube	 Temperature/ Molten Metal Electricity Gas Eye damage Sparks Wire feeding out of the nozzle 	 Gas Inhalation Arc eye Weld burn from radiation Burn from hot metal 	4	2	MR.
	707	-u, , , , , , , , , , , , , , , , , , ,				The second second
Welder (TIG)	 Welding the frame and the seams of the aluminium tube 	Temperature/ Molten MetalElectricityEye damage	 Slag and molten metal burning clothing and skin Arc eye 	4	2	
				4	2	A TO
Cordless Drill	Attaching hinges for doors and gas struts	 Metal Splinters Metal shards flying Drill Piece Spinning Loud sounds 	 Lacerations Eye scratches and damage Punctures to skin Hearing damage 	3	3	

Guillotine	Cutting the sheet aluminium	BladeLoud sounds	Loss of body partsHearing damage	_	2	
				5	2	
Drop Saw	Cutting the aluminium tube	 Rotating saw blade High decibel sound Fling chunks of metal 	LacerationsHearing damageEye damage	4	2	
Jig Saw	Cutting the lock	• Blade	• Lacerations/ cuts			A
Jig Saw	Cutting the lock holes	Loud noiseJolting materials	Lacerations/ cutsHearing damage	3	2	

Mallet	Connecting the aluminium sheets	Heavy item	• Crushing of hands	3	2	
Angle Grinder	Cutting the aluminium sheet	 Rotating disk Heat from friction High decibel sound 	LacerationsDeep cutsBurnsHearing loss or damage	5	4	
Folder	• Folding the	• Clamp	• Crushing			A Total
Politer	sheet aluminium	Clamp	Crusining	3	2	1

Band Saw	Cutting Sheet aluminium	 Circulating blade Loud noises Jolting materials 	 Loss of body parts Hearing damage 	5	4	
			were.			