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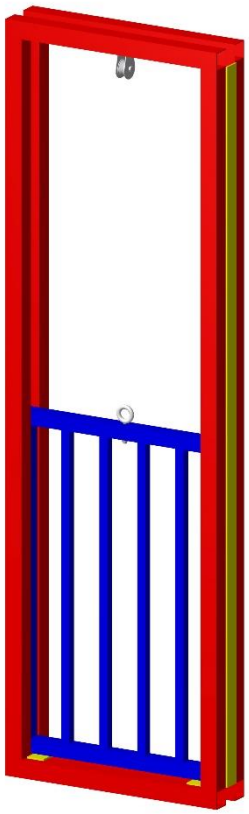
Livestock handling & yard equipment plans

Sheep or Goat Guillotine Race Gate Plans Book

Includes Plans To Build The Following:

- Guillotine Race Gate
- Suitable for Sheep or Goats



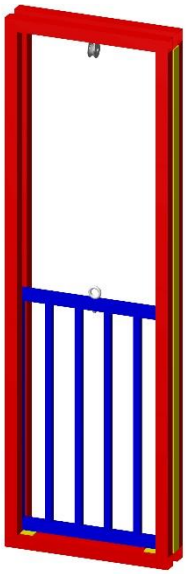
Kurraglen Industries
PO Box 215
Gulgong, NSW, 2852
Australia

https://www.kurraglenindustries.com.au

sales@kurraglenindustries.com.au

https://www.facebook.com/kurraglen/

Sheep or Goat Guillotine Race Gate



This guillotine race gate is a handy addition to your sheep or goat yards as it can be operated remotely by pulling on a rope or cord connected through a pulley and onto the top of the guillotine gate. You may wish to change the overall height of the main frame, the height or width of the gate to suit your own needs.

Tools required include a welder, either stick or mig, G clamps or welding clamps, tape measure, angle grinder for cutting and cleaning up welds, electric drill and a square. You may buy lengths of steel and cut it to the correct sizes if you have either an angle grinder or electric bandsaw or you may choose to have the steel cut for you from a local steel supplier. One thing that will make your job a lot easier is to construct a pair of welding trestles as shown on our website (www.kurraglenindustries.com.au). The plans for the welding trestles are free.

The following steel and materials are required to build the guillotine race gate:

50x50x2 SHS - 11.5 metres (painted or galvanised)	Pulley - 1
65x5 flat bar – 4.6 metres	Eye bolt - 1
40x40x2 SHS – 3.1 metres (painted or galvanised)	
25x25x2 SHS – 3.5 metres (painted or galvanised)	

Cutting List for Guillotine Race Gate				
Item No	Quantity	Material	Size (mm)	Notes
1	4	50x50mm SHS	2200	
2	4	50x50mm SHS	650	
3	2	65x5mm flat bar	2200	
4	2	65x5mm flat bar	100	
5	2	40x40mm SHS	870	
6	2	40x40mm SHS	640	
7	4	25x25mm SHS	870	

1. Begin by cutting all of the steel as indicated in the cutting list. Label each with the item number on it using a marking pen and set aside.
2. Tack weld Items 1 and 2 together as shown in Diagram 1. Ensure that the frames are square and fully weld. Two of these frames are required.

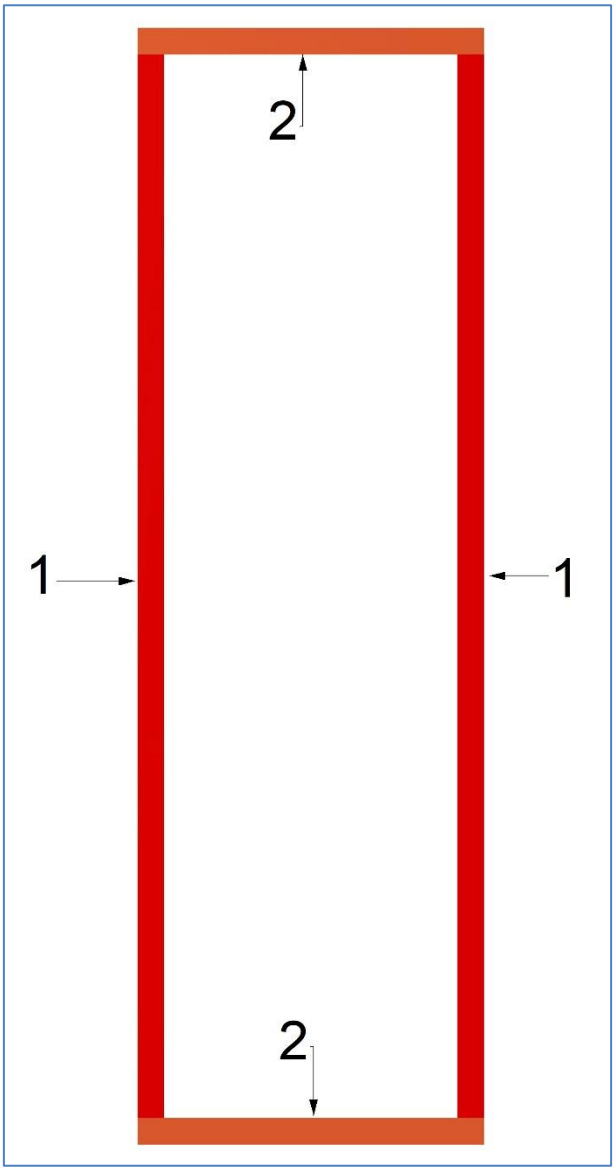


Diagram 1

3. Position both of the frames together so that there is a space of 45mm between them. This spacing is for the gate which has a width of 40mm plus a clearance of 5mm. Refer to Diagram 2.
4. Position 1 of Items 3 on each side of the main frame and weld in place as shown in Diagram 2.
5. Next place Items 4 at the bottom of the main frame and weld in place. These are for the gate to rest on.

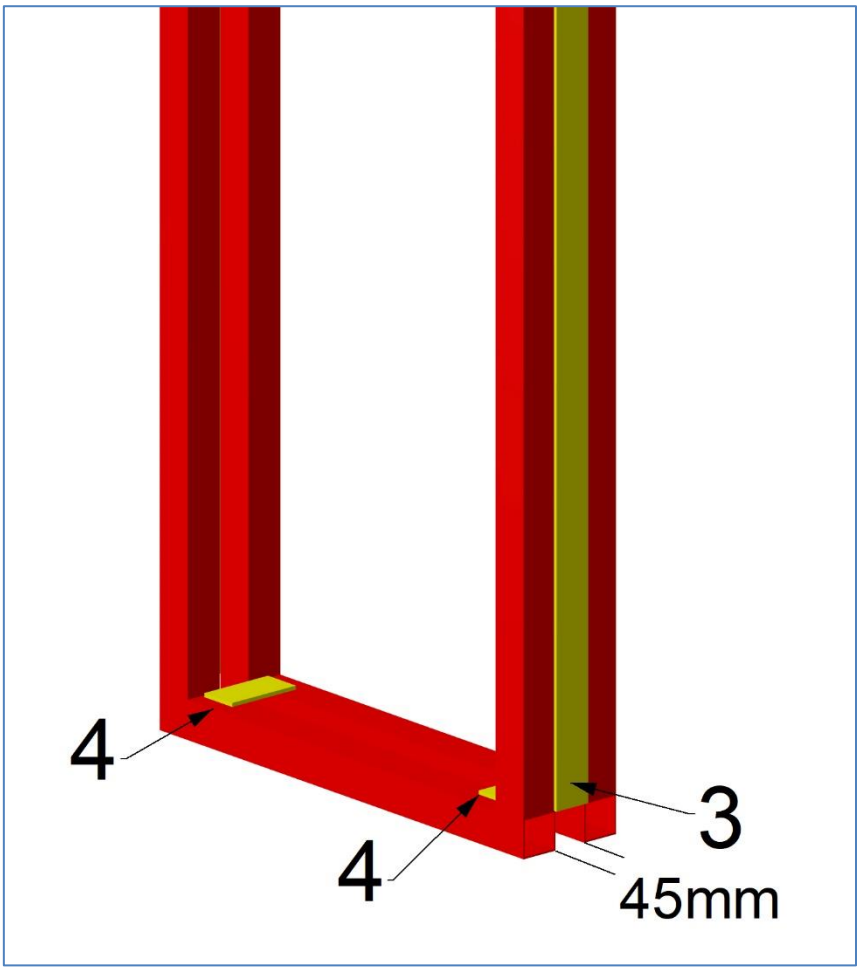


Diagram 2

6. Lay out Items 5, 6 and 7 as shown in Diagram 3 and tack weld together.
7. Ensure that the gate is square and fully weld.

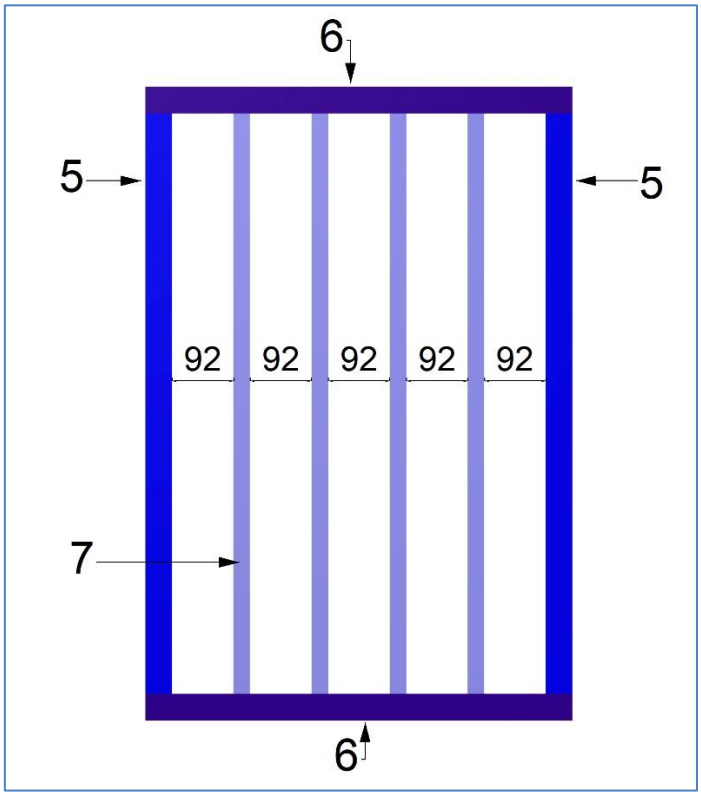


Diagram 3

8. Insert the gate into the main frame from the top.
9. Fit the eye bolt to the top of the gate as shown in Diagram 4.

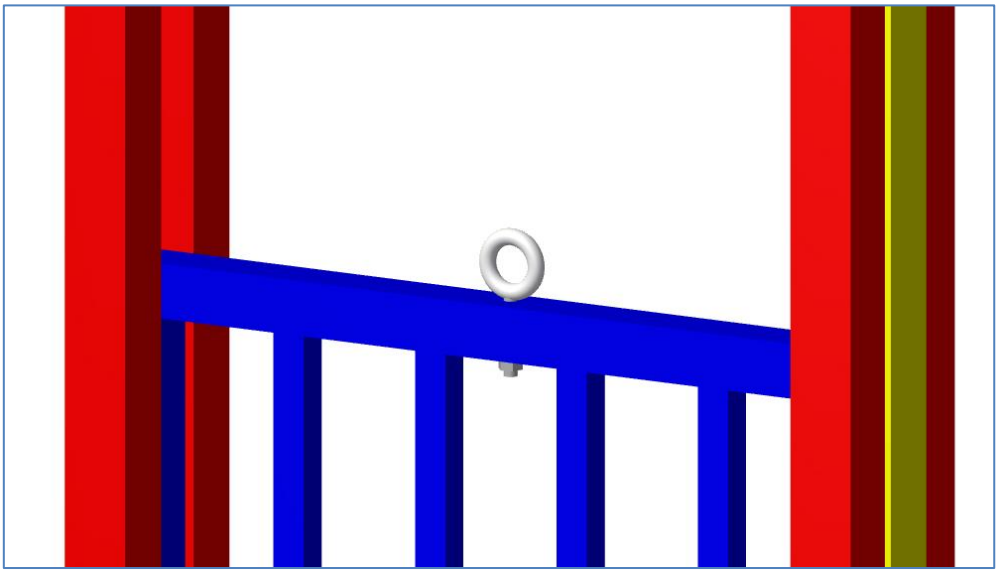


Diagram 4

10. Fit the pulley to the top of the main frame. Refer to Diagram 5.

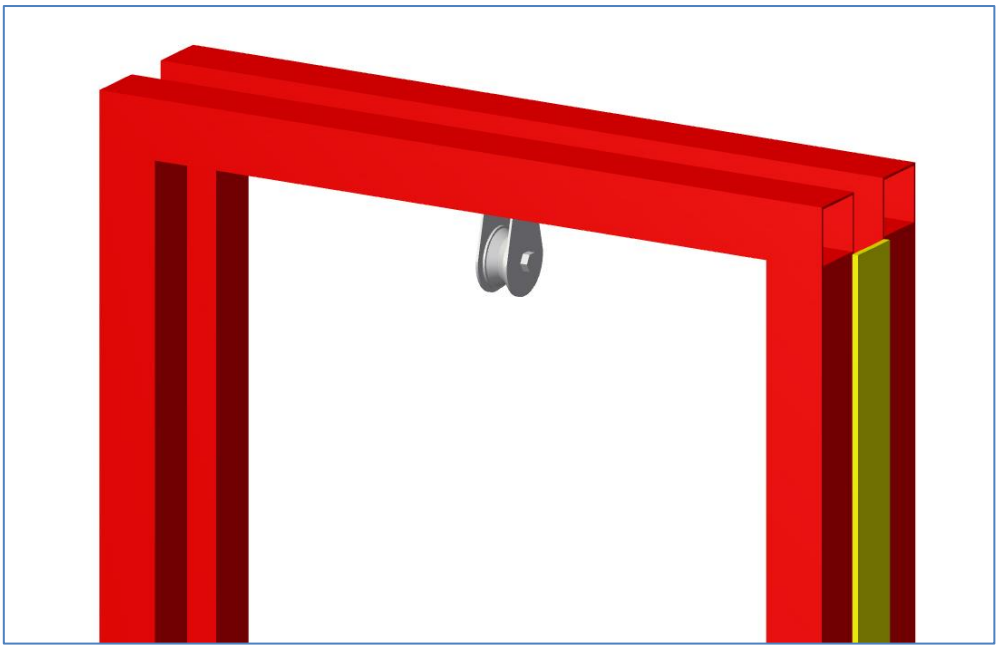


Diagram 5

11. Grind any welds as required and paint.
12. Fix one end of a length of rope onto the eye bolt on the gate and feed it through the pulley. The other end of the rope will need to be fixed to another point along the race so that when it is pulled from any position, the gate is raised.

If you have any problems or issues and need assistance, we are here to help. Send an email to help@kurraglenindustries.com.au

Proud of your project? Email us the photos of your equipment or yards that you have made from our books and we will put them up on our website for others to admire. You can even be in the photo if you would like to be. Be sure that you include your name, where you are from and a brief description. Please make sure that the photos are of good quality, in jpg (jpeg) or png format, at least 72 dpi and at least 900 pixels by 600 pixels. Email your photos to: projects@kurraglenindustries.com.au