

Sheep & Goat 2 Way Draft Gates Plans Book

Includes Plans To Build The Following:

- Two way drafting (sorting) gates for sheep and goats



Kurraglen Industries
PO Box 215
Gulgong, NSW, 2852
Australia

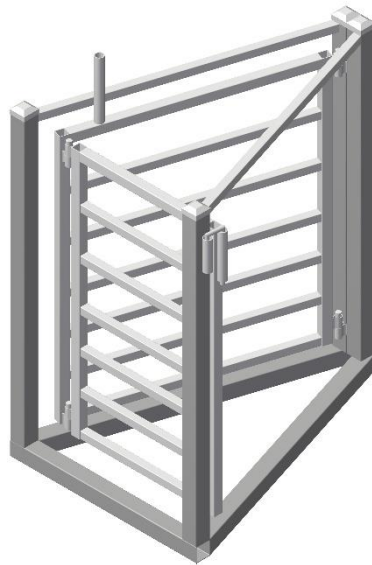
<https://www.kurraglenindustries.com.au>

sales@kurraglenindustries.com.au

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



How to make 2 way sheep or goat drafting gates



These drafting gates (sorting gates), can be used at the end of a race in a yard for separating goats or sheep as required by sex or age, etc.

The steel shown in the cutting list is only a guide as you may have other material already available that you can use.

Materials required			
Item No	Material	Length	Quantity
1	50x50x1.6mm SHS	650mm	1
2	50x50x1.6mm SHS	910mm	2
3	50x5mm flat	105mm	1
4	50x50x1.6mm SHS	1000mm	4
5	30x30x1.6mm SHS	870mm	2
6	30x30x1.6mm SHS	700mm	1
7	25x25x1.6mm SHS	700mm	6
8	30x30x1.6mm SHS	870mm	2
9	30x30x1.6mm SHS	440mm	1
10	25x25x1.6mm SHS	440mm	6
11	20nb pipe	200mm	1
12	25x25x1.6mm SHS	850mm	2
13	12mm round bar	360mm	1
14	20nb pipe	150mm	1
15	20nb pipe	100mm	1
	16mm weld on pin and socket hinge		4
	50x50mm square galvanised caps		4

1. Begin by cutting the steel to the required sizes. Note that Items 2 have an 18 degree mitre cut on both ends. Make sure that the mitre cuts are orientated the correct way. Refer to Diagram 1. Also note that Items 12 have an 18 degree mitre cut on both ends. Make sure that the mitre cuts are orientated the correct way.

2. Lay out Items 1, 2 and 3 on a flat surface and weld together. Refer to Diagram 1.

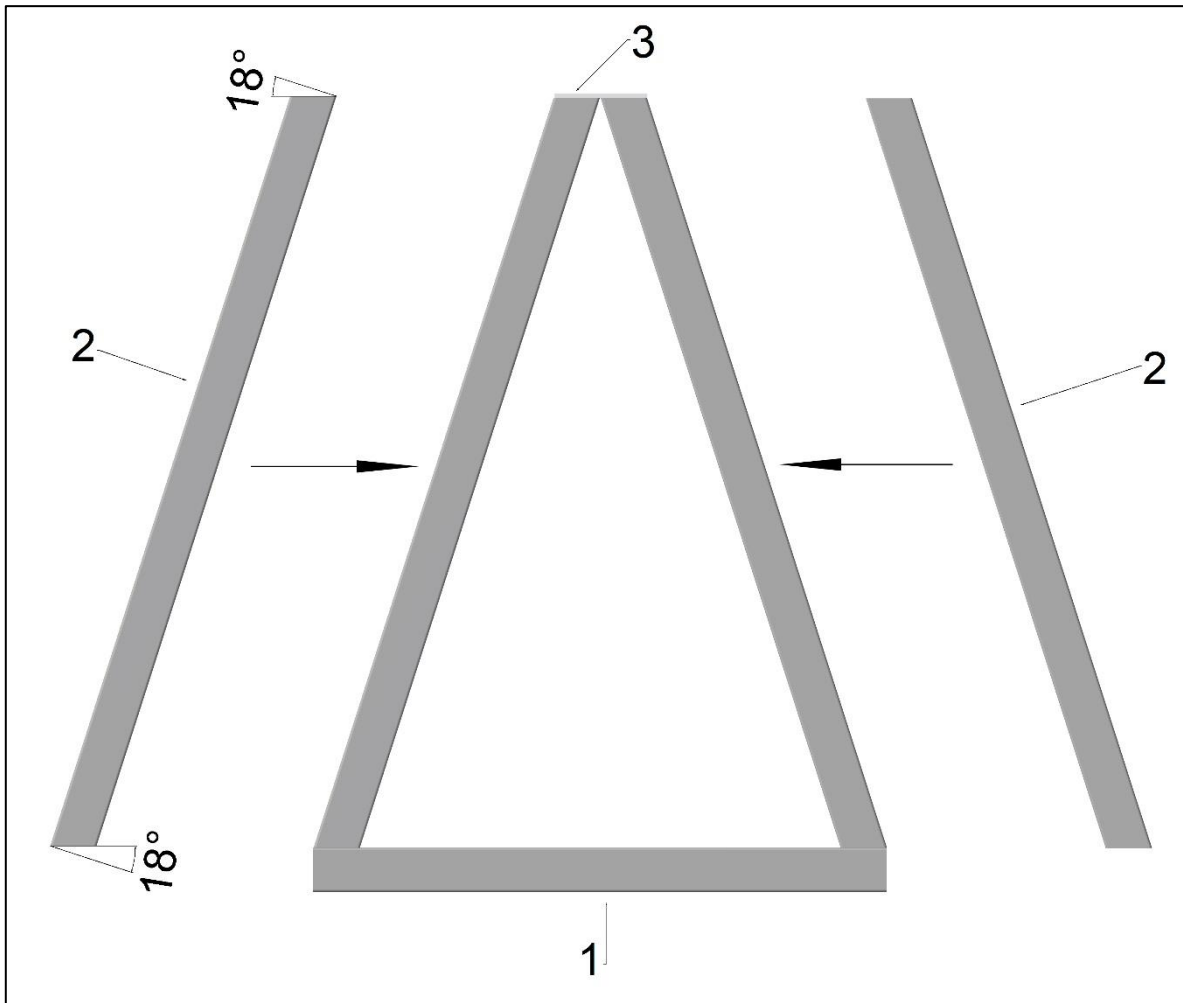


Diagram 1

3. Place caps on Items 4 before welding them to the base frame. Weld Items 4 in place as shown in Diagram 2. The two Items 4 that are adjacent to each other, need to be welded together towards the top as well as the base.

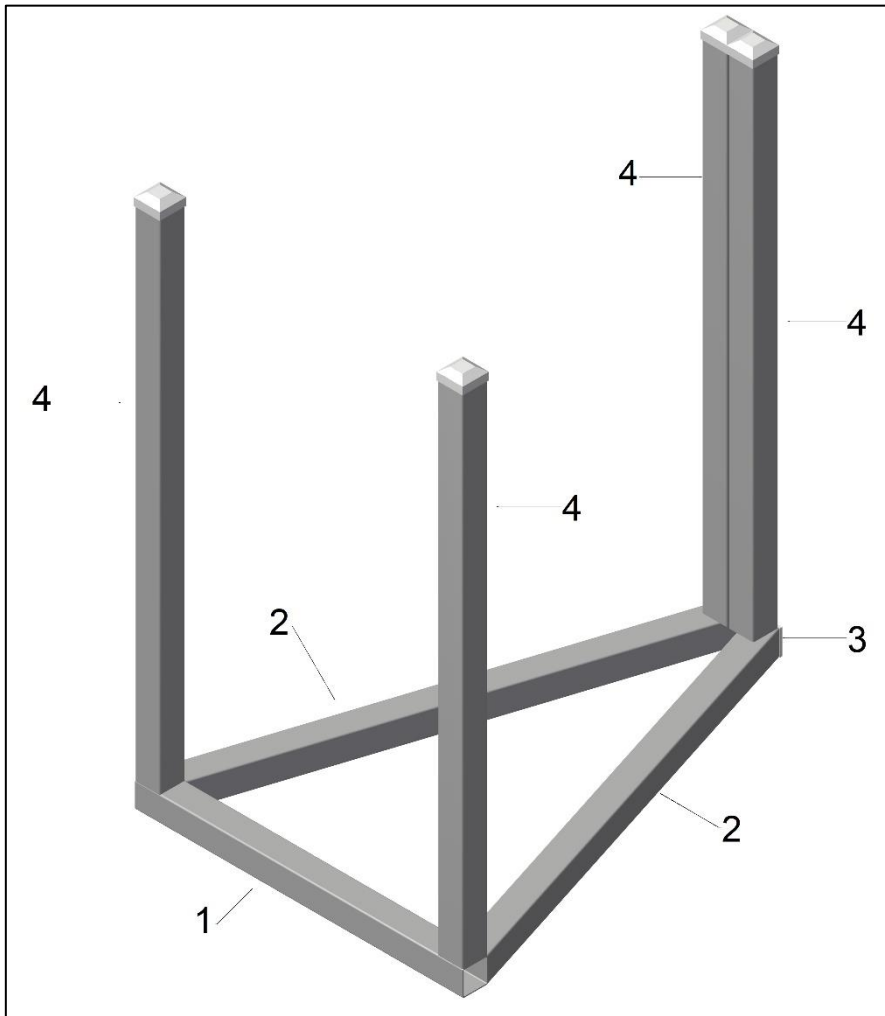


Diagram 2

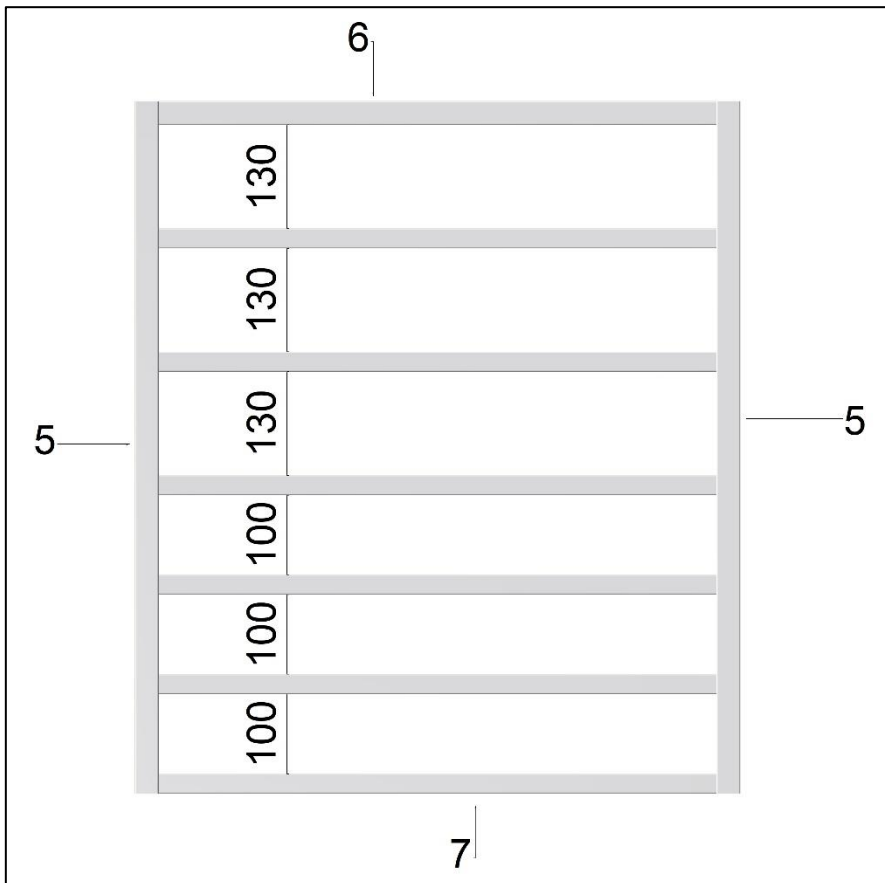


Diagram 3

4. Weld the wide gate together as shown in Diagram 3.

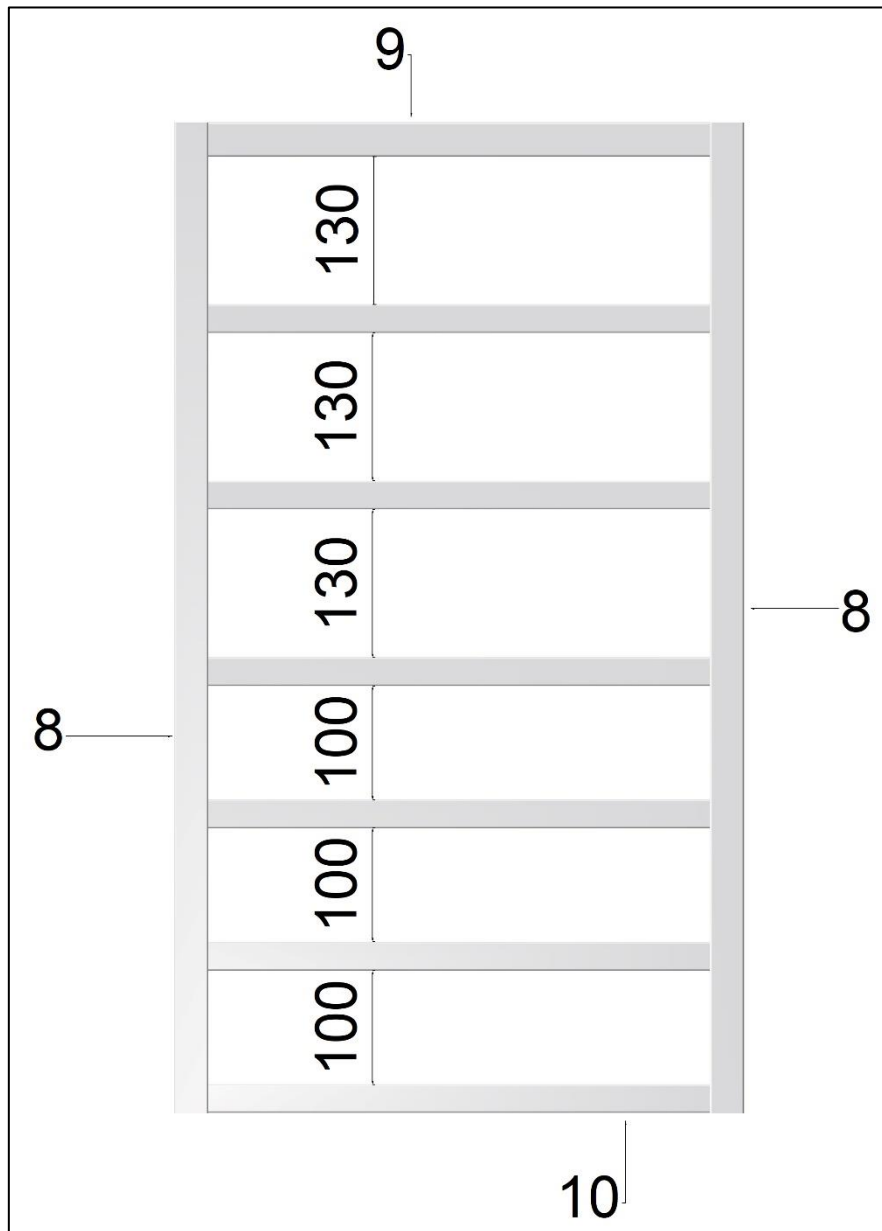


Diagram 4

5. Weld the narrow gate together as shown in Diagram 4.

6. Install the wide gate as shown in Diagram 5. Place spacers under the gate that equal 60mm to raise the gate into the correct position. Weld the hinges to the 2 posts (Items 4) and the gate.

7. Weld the two remaining hinges to the opposite end of the wide gate as shown in Diagram 5.

8. Weld Item 11 onto the top rail of the wide gate approximately 100mm from the end. Refer to Diagram 5.

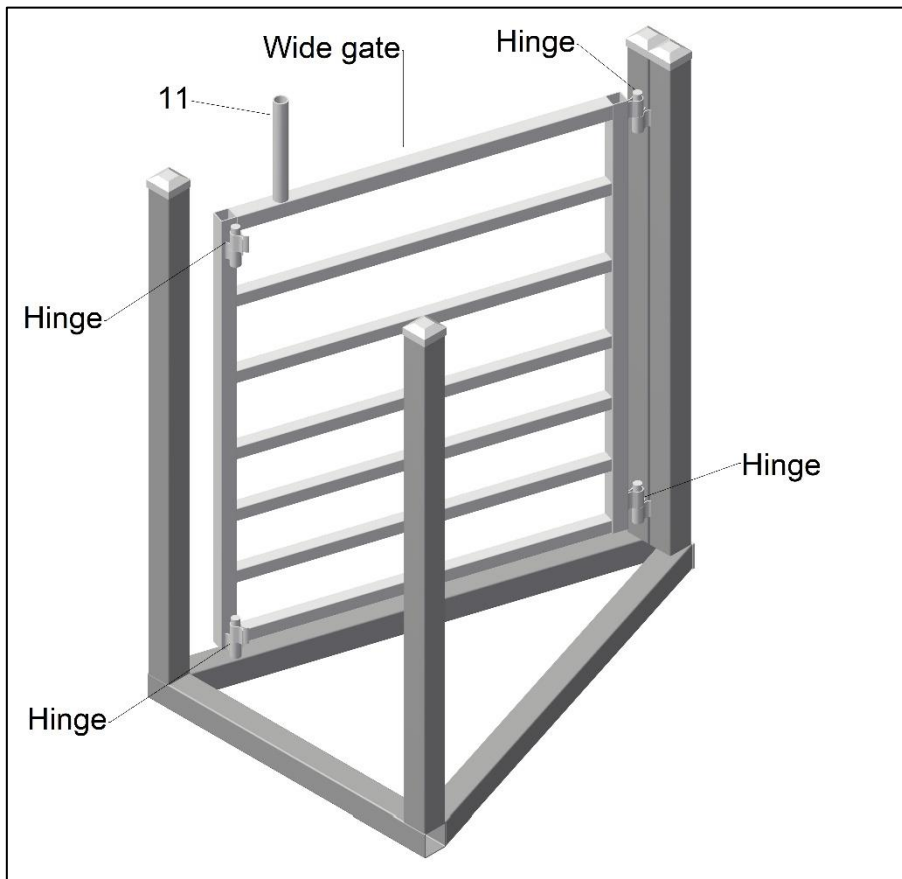


Diagram 5

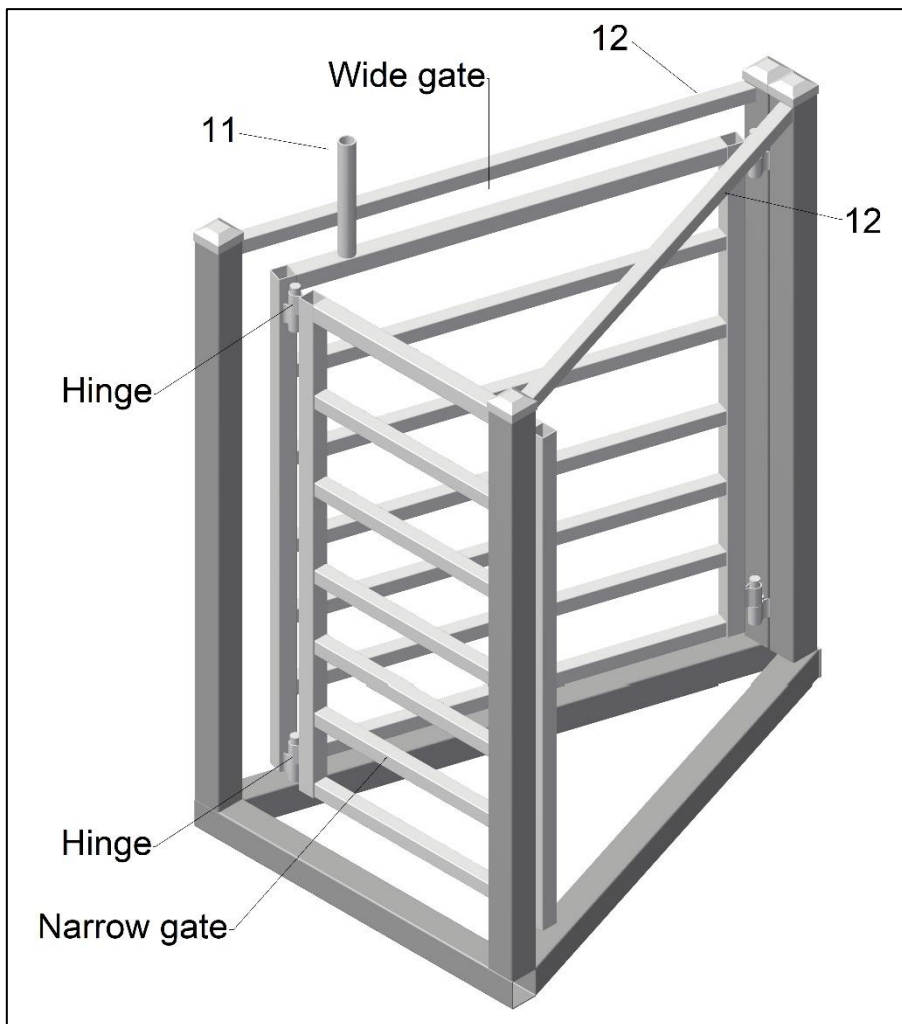


Diagram 6

9. Install the narrow gate as shown in Diagram 6. Place spacers under the gate that equal 60mm to raise the gate into the correct position. Weld the hinges on the end post of the wide gate to the narrow gate. Note that the hinges are welded to the face of the gate, not on the end of it.
10. Install Items 12 in place as shown in Diagram 6. These are welded in position just under the caps.
11. Bend a 360mm length of 12mm round bar as shown in Diagram 7.

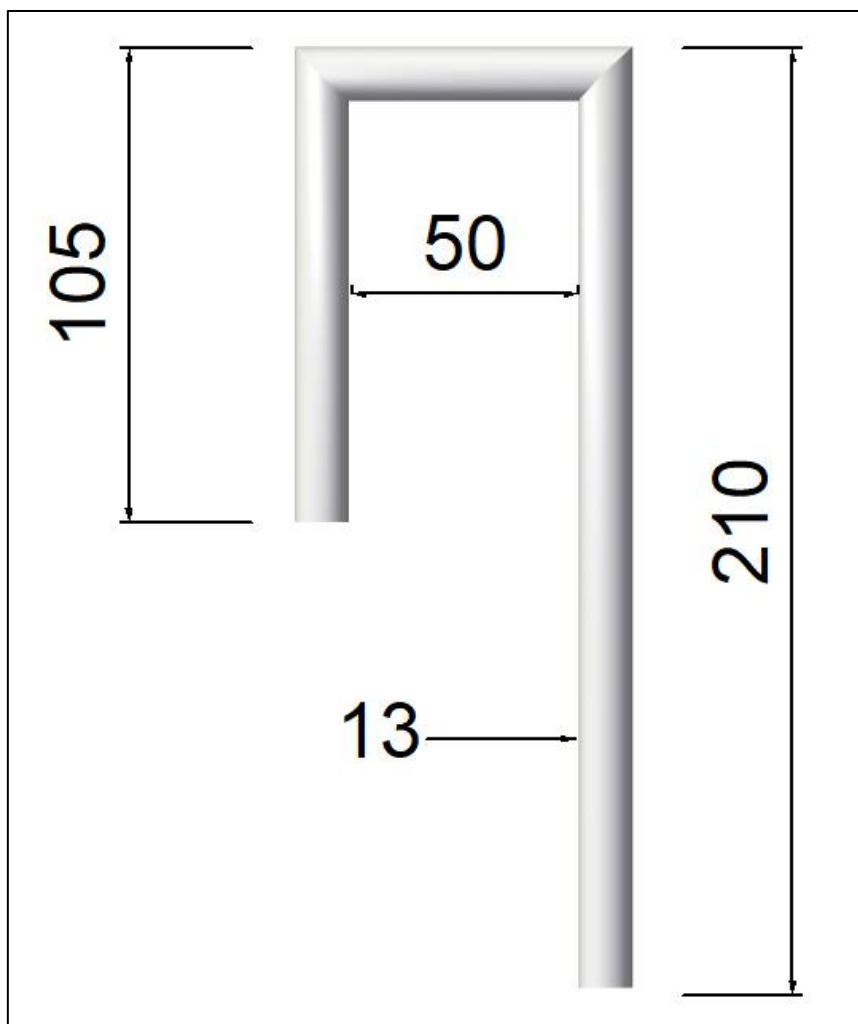


Diagram 7

12. Weld Item 14 onto the end of the narrow gate and Item 15 onto the adjacent post. Use the previously bent round bar (Item 13) to check proper placement. Refer to Diagram 8.
13. The narrow gate is held in the open position for drafting (sorting) by hooking the 12mm bent round bar (Item 13) over the wide gate top rail. Refer to Diagram 9.

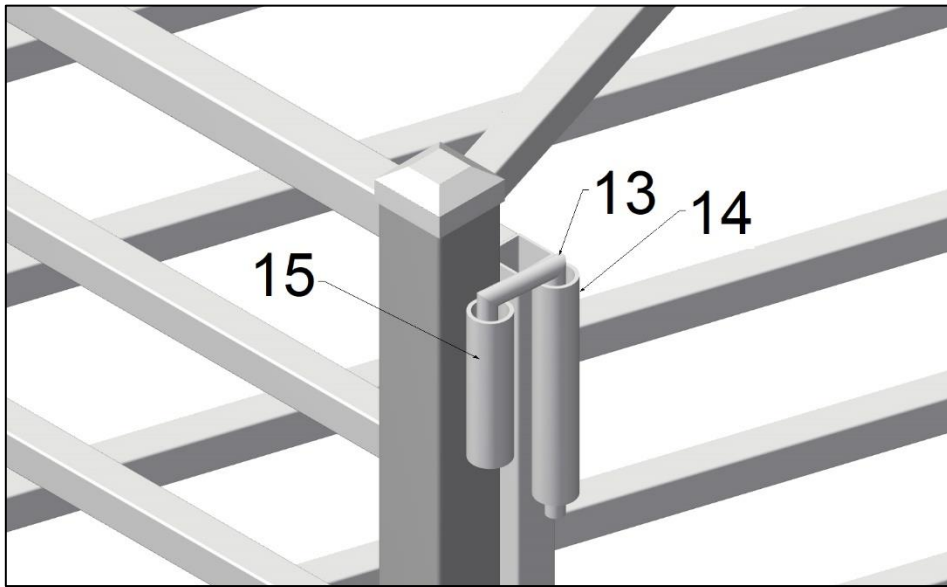


Diagram 8

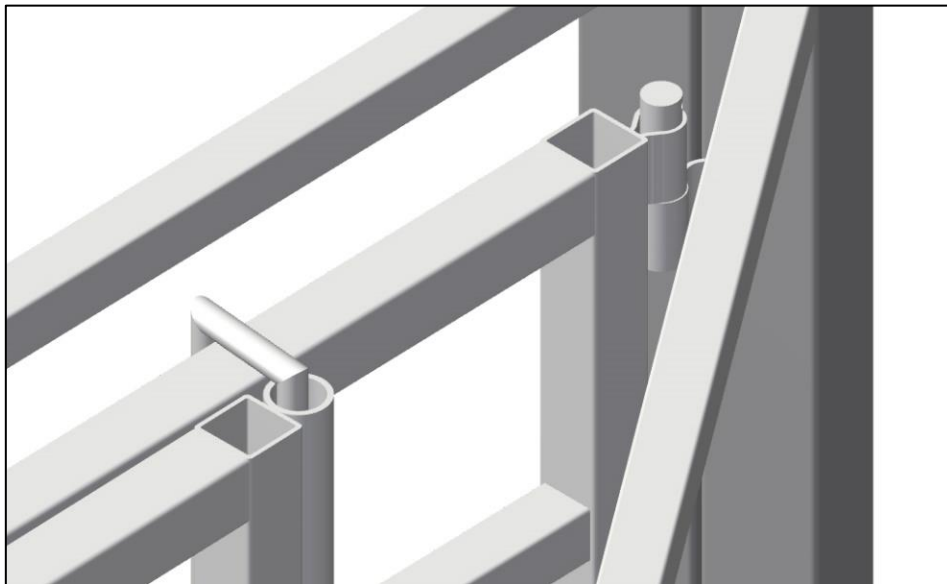


Diagram 9

Some free handy tools:

Linear cutting list optimiser: <https://www.kurraglenindustries.com.au/linear-cutting-list-calculator.htm>

Free project calculator: <https://www.kurraglenindustries.com.au/project-calculator.htm>