

Open source projection screen: assembly instructions

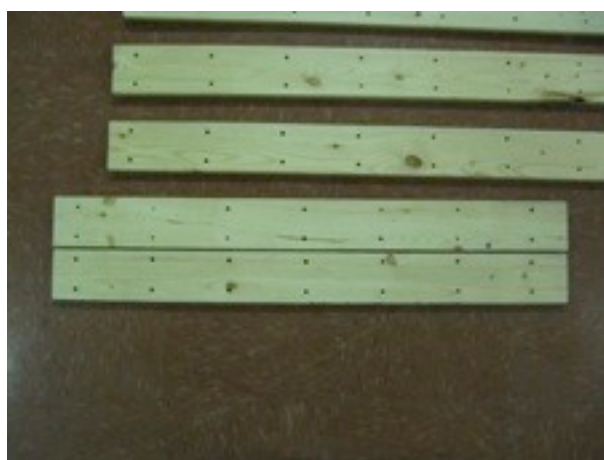
Materials:

- 7 x IKEA GORM posts - 174cm
[<http://www.ikea.com/gb/en/catalog/products/00058524>]
- 4 x MDF perpendicular brackets [PB]
- 16 x MDF flat brackets [FB]
- 48 x M5 35mm bolts
- 48 x M5 wing nuts

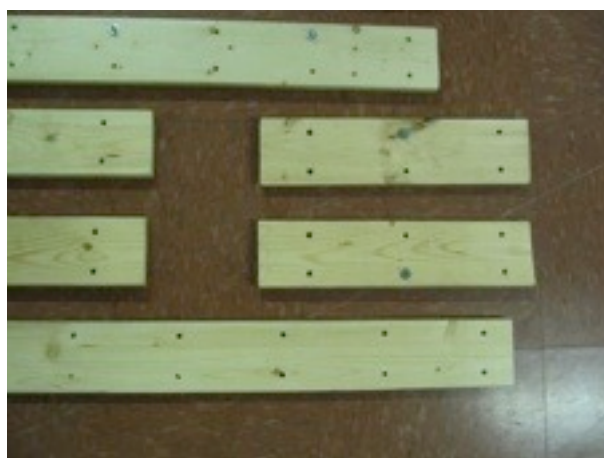


Prep:

You will need to saw three of the GORM pieces:



- Cut one in half, mid-way between the pre-drilled holes



- Cut two pieces mid-way between the 3rd and 4th pre-drilled holes

Assembly:

- We will use the FB pieces to join the GORM pieces together.
- The PB pieces join the legs to the screen frame.
- All of the bolts + nuts used are the same, apart from those already in the PB pieces.

Example:



- Put 2 bolts through the 1 FB piece
- Place FB + bolts on one side of a GORM length.
- Place another FB piece on other side of GORM.
- Hand tighten wing nuts.
- Place next GORM length in other end of FB 'sandwich'.
- Put 2 more bolts + wing nuts in appropriate holes.



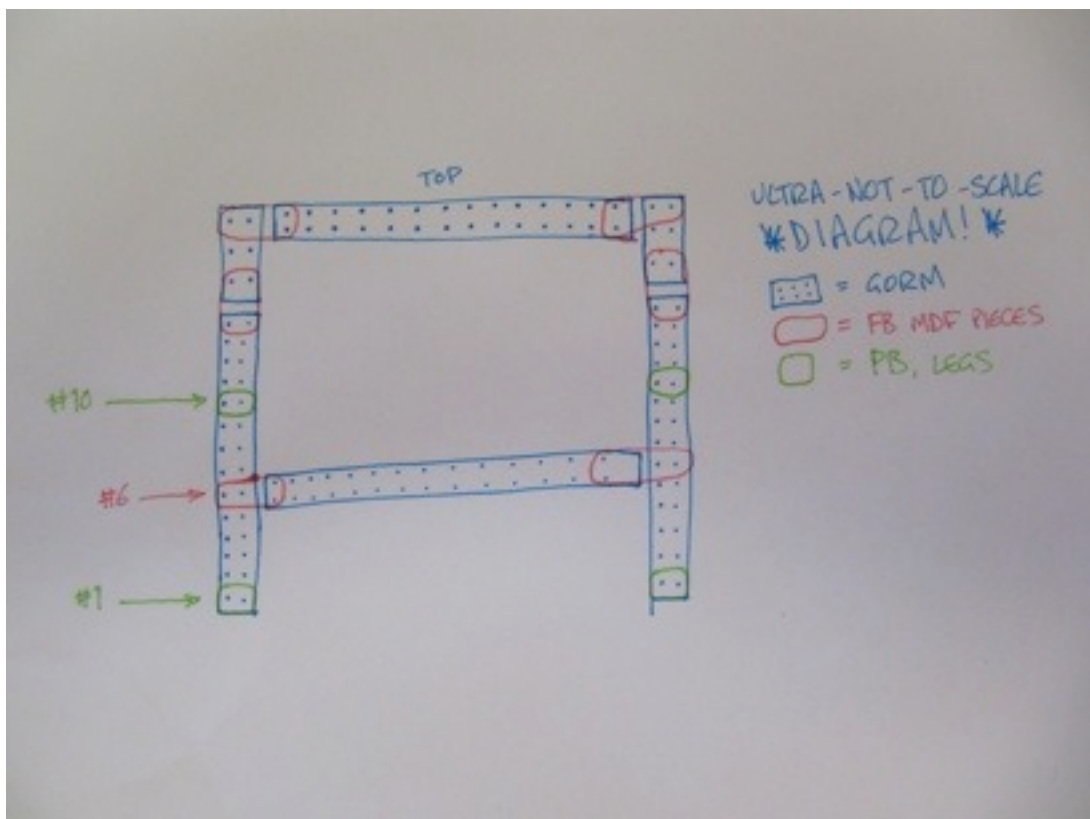
Leg Assembly:



- Uses GORM half length + [GORM - 3 holes]
- Ensure FB pieces are placed at GORM ends with holes farther from edge.
- 1x FB piece at the end of the half GORM

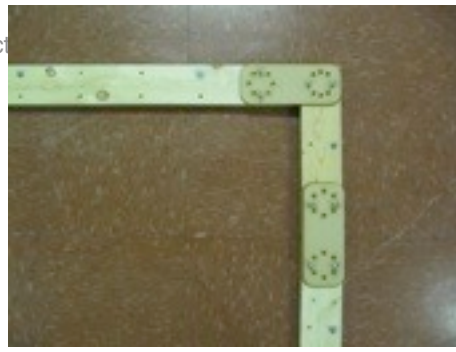


- Then attach the [GORM-3H] length at an angle, using the holes in the FB piece.
- Next, add the PB pieces. Each requires 2 bolts. Each leg requires 2 PB pieces.
- Repeat for the second leg.



Screen Frame:

- Use the FB pieces to join the GORM as shown in the diagram above.
- Laying out the pieces before joining makes it easier to assemble.
- You can choose how 'tall' to make the screen by choosing where to attach the bottom horizontal GORM piece. 6th hole from the bottom of the legs works well.



Attaching the legs:

- The short part of the leg is horizontal and will sit on the floor.
- With the screen frame flat on the floor, use 2 bolts + nuts to attach each PB to the screen frame.



Note that there is no extra MDF piece on the other side of the GORM.

Final touches:

- Check that all of the nuts are tight and lift the screen up.
- Attach screen material using gaffa tape.



- If using for a FriiSpray setup, position for projection + calibration.
 - Once in position, tape into position to prevent the screen from moving during use.
- Your projection screen is now ready to use!
- To take down, first remove screen material, then lay screen frame face down. Remove legs first, then undo nuts + bolts that hold the screen frame together.