Light Barrier Concept

8 MARCH 2021 MICHAEL REH



Main Concept

0.01" (~0.25 mm) black vinyl sheet

<u>https://www.tekra.com/products/films/rigid-vinyl-pvc-film/black-opaque-mattematte-rigid-vinyl</u>

Slits at each cable connector site (vinyl will sit between cables and boards)

Small felt skirt around cable connection site

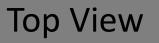


Vinyl Sheeting

0.01" (~0.25 mm) black opaque vinyl sheets

Come in sheets of 25"x52" (~0.625m x 1.32m)

• Will need multiple sheets per side for coverage

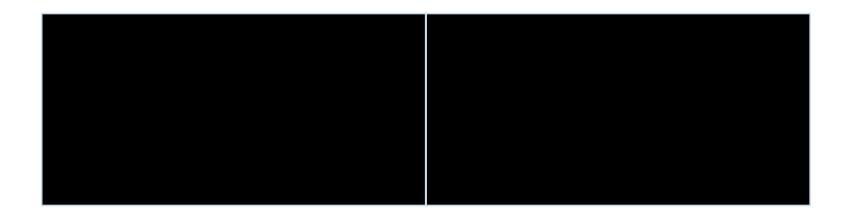


Side View



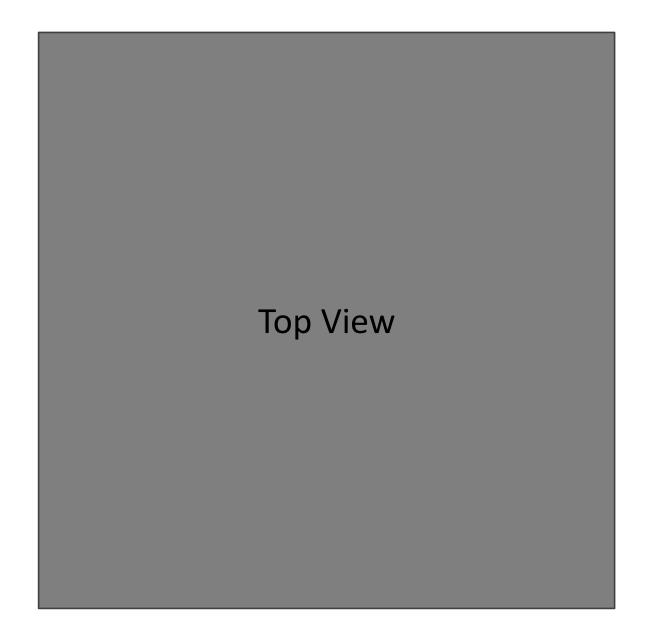
Side View





Side panels will fit well with this arrangement under the current sheet sizes

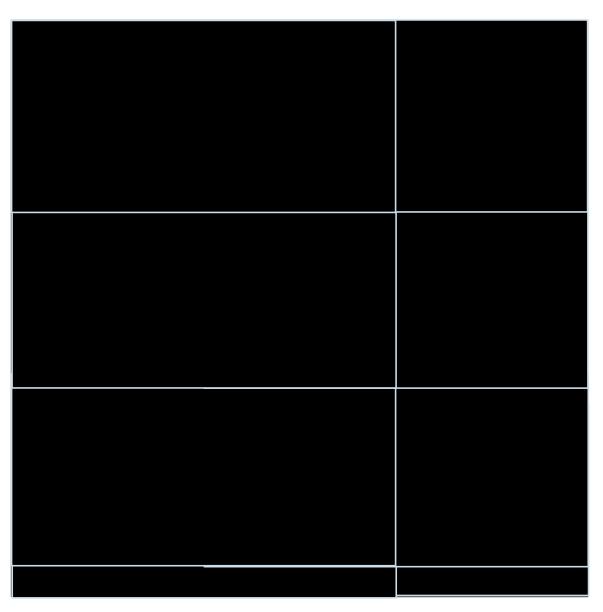






8 Sheets gives safe coverage, but have to worry about large overlap

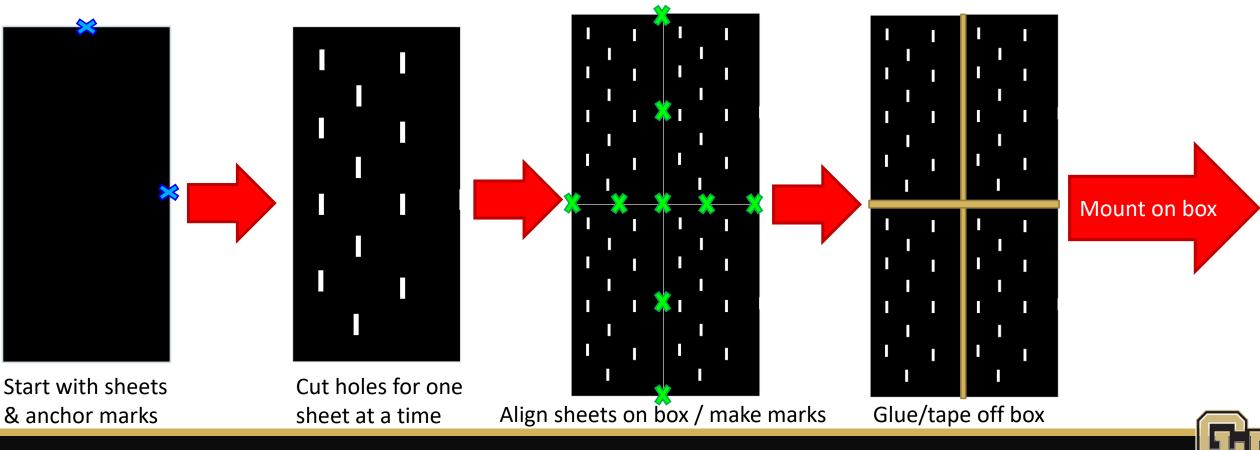
Must avoid putting overlap regions near cable connection sites



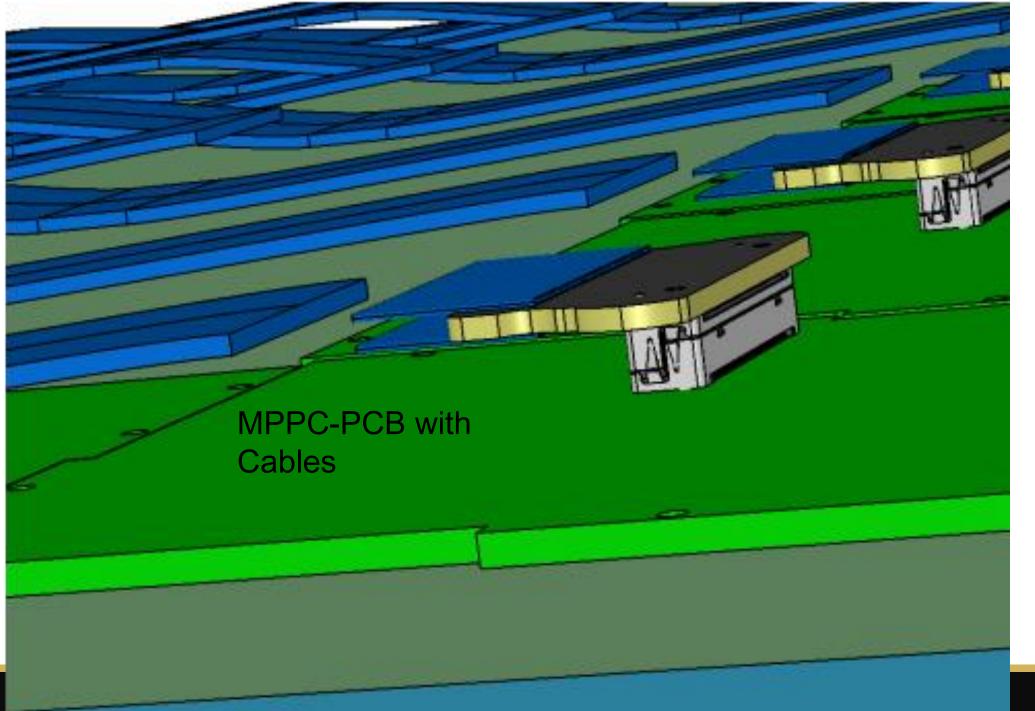
Seal material Tape? RTV? Anything else?



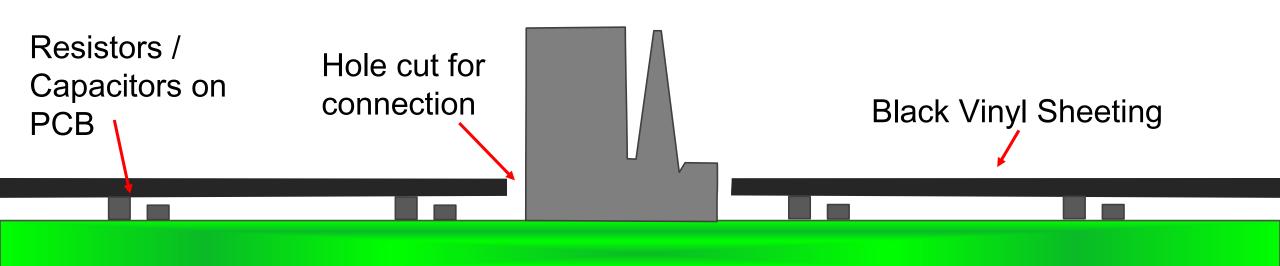
- Sheets will have to have holes cut individually relative to their anchor position to the box
- After cutting, put all sheets on the box in their working configuration to ensure individual fit & mark overlap borders
- Attach sheets together off the box to ensure quality seal
- Put attached sheets on the box for final mounting



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Side view diagram





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