





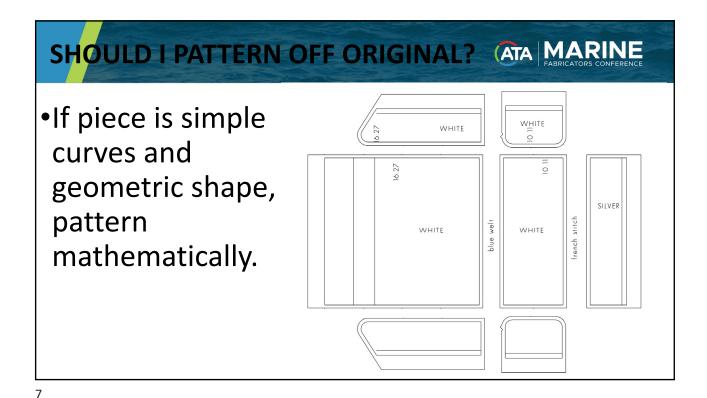




PATTERNING

- Copy or pattern from scratch?
- Inside curves
- Stretch Allowances
- Design Factors





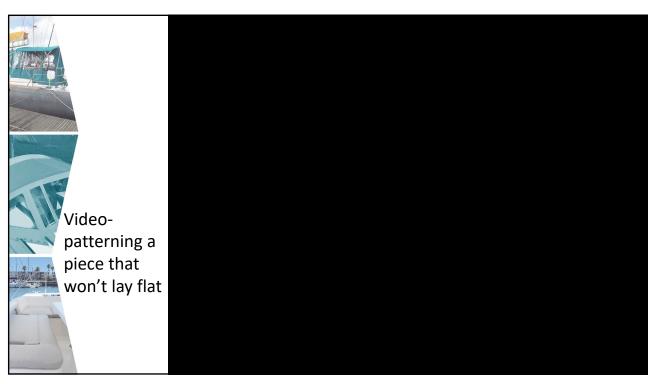
• If piece has compound curves and organic shape, use a combination of copying old and custom patterning.

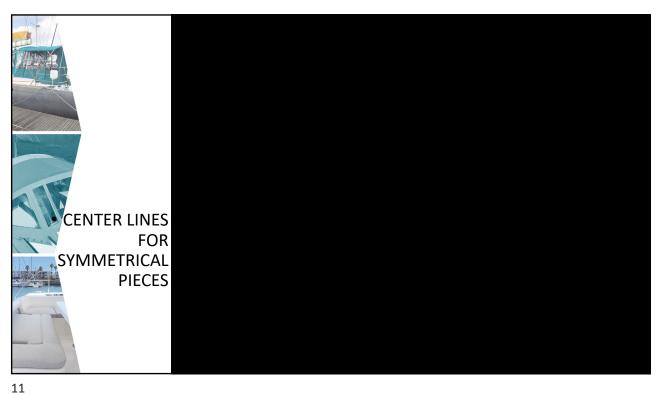
THINGS TO REMEMBER

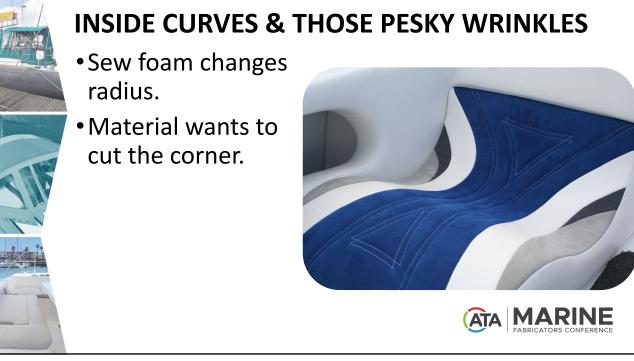
- Take detailed pictures of original
- Mark for notches/alignment marks before dismantling.
- Pattern from seam line not cut line
- Look for things you would like to fix like crooked seam lines or poor shaping and make notations
- Techniques demonstrated in these videos.



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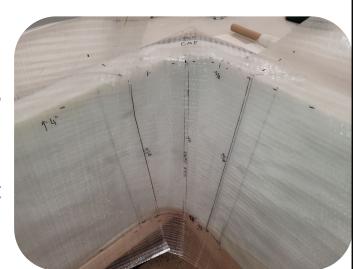






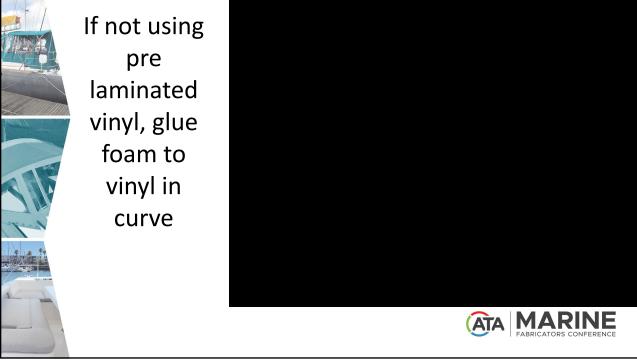
REMOVE MATERIAL FROM CURVE

- Remove approx 1/16" per inch.
- Stretch as you sew to top and bottom band/cap
- Use lots of alignment marks for consistent stretch





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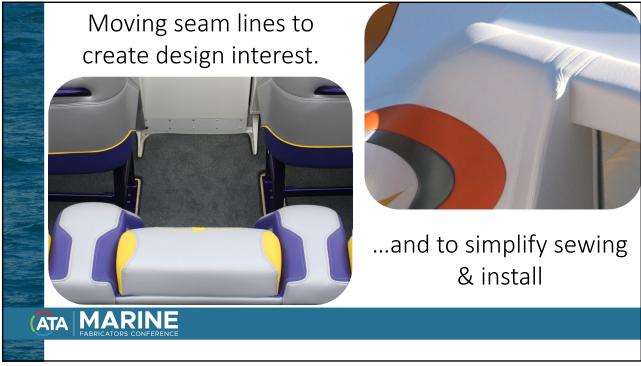


STRETCH ALLOWANCE

- Adjust for stretch along length of cushion or panel
- Approx 1/8" /ft of panel cut along length of vinyl.
 Will vary depending on material.
- Allowance in both directions if large panel like engine hatch.









SEWING

• Stacking order when sewing

• Relief cut rules

• Creating Shoulders

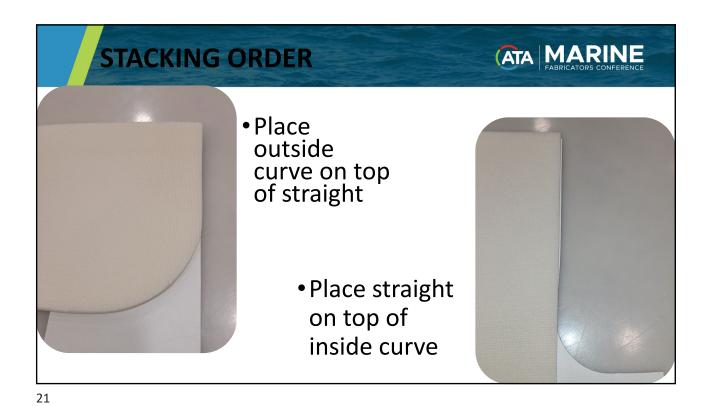
• Top Stitching

• Pulls/Listing

• Welt

ATA MARINE

FABRICATORS CONFERENCE



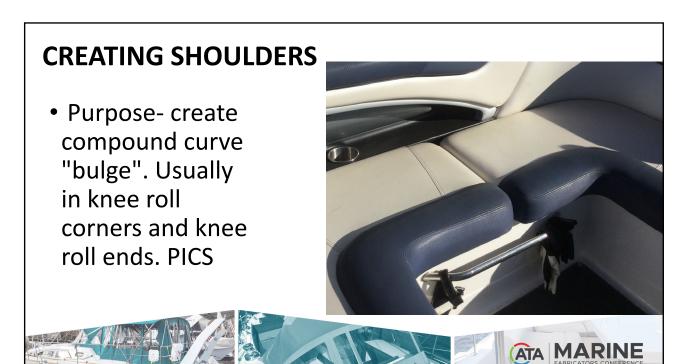
RELIEF CUTS

• Take minimum necessary

• Place evenly throughout curve

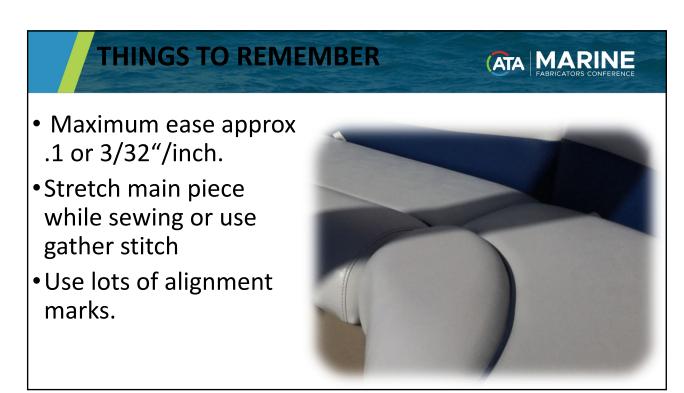
• Alternate placementmost important when not using sew foam and for amateurs.

• Don't cut too deep

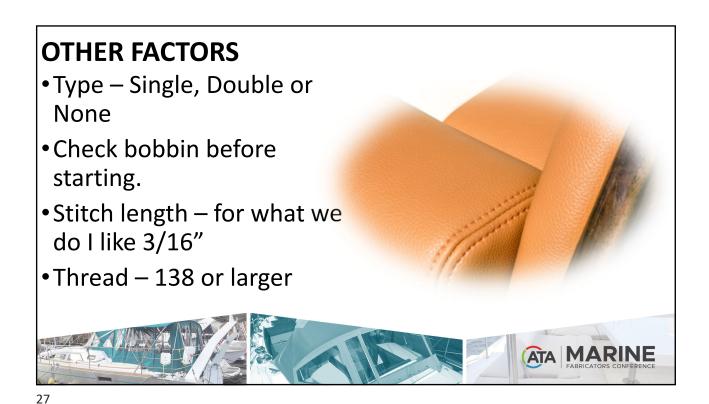


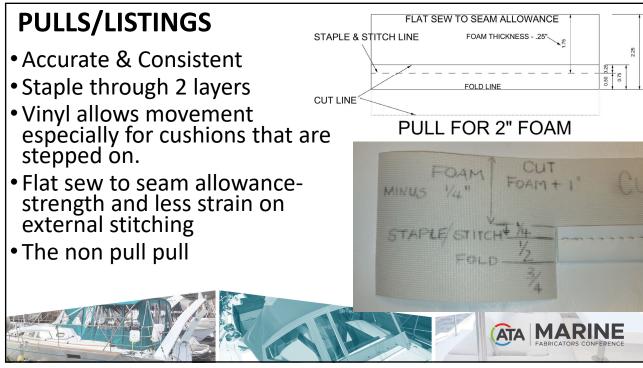
WHAT'S WRONG HERE?

• POSSIBLE FIXES
• Steam foam
• Cut off end of foam and replace with firm new foam
• Create shoulder using ease techniques











WELT
BIGGEST MISTAKES
Loose
Unnecessary joins
Wavy
Cutting corners.
Not so critical when there is an angle change, like on an end cap.

CUTTING CORNERS

- Critically important on flat panels. Welt needs to "cover" seam
- OTHER FACTORS
- Needle Size
- Correct Foot





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• 1/4" Seam • Lots of alignment marks • Keep back stitch within seam allowance • Accuracy critical — mistakes can multiply



PINKING

• Bacterial and Chemical
• Prevention is Best
• Use Antimicrobial foam and pinking warranty vinyl
• Provide good drainage
• Keep clean
• Educate customer on care
• Moisture Barrier?

REFERENCES



- https://marinefabricatormag.com/2014/05/01/the-science-of-vinyl-discoloration/
- https://gestaltscientific.com/overview/
- https://www.xanigomarine.com/
- https://www.sailrite.com/What-Is-Pink-Staining