

Welcome to

Advanced Textiles

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ORGANIZED BY ATA



Designs That Bombed

Don't make these mistakes like we did!

Robin DuBroy



Top Reasons a Design Goes Bad

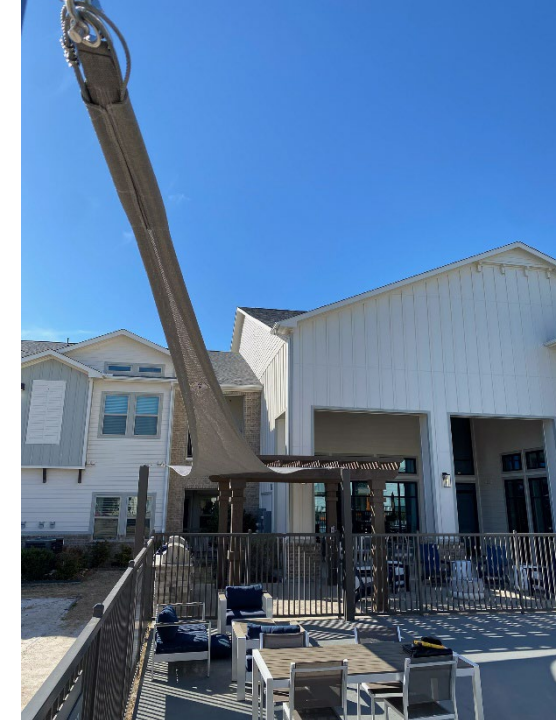
- Too Skinny
- Too Flat
- Shade ends up in the wrong spot
- Poorly planned posts/brackets
- Misused Triangles



The Problem

Too Skinny

These sails are too skinny. They don't provide shade, and they don't look good.



How to get the best triangle shape –

- The length of the longest side should be at least double the length of the shortest side.



The Problem

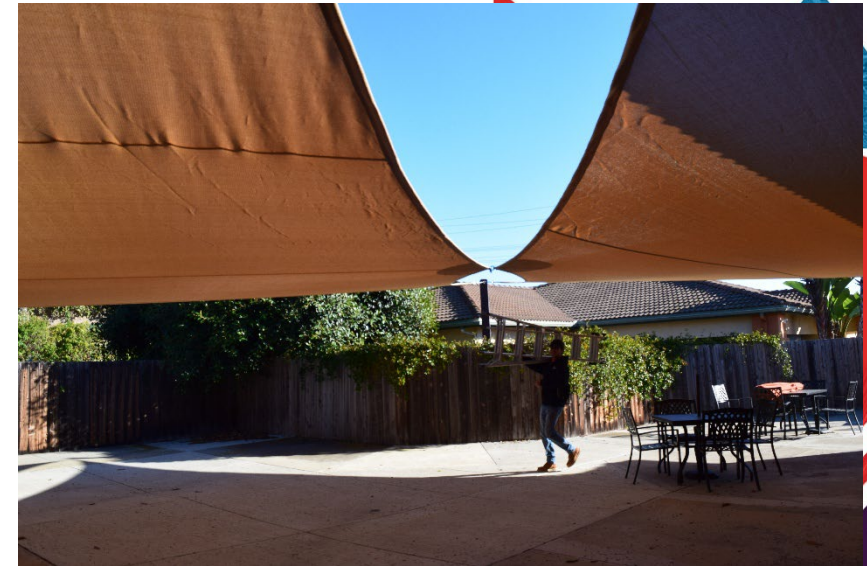
Too Flat

These sails don't have a Hypar twist. They are prone to sagging and will move more in the wind.



How to get the best Hypar shape –

- Use at least 3' to 4' height differences.
- Divide the side length by 6. For example: $240'' / 6'' = 40''$, so the height difference should be at least 40"



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The Problem

Too Flat

This flat design resulted in damage to the structure.



The Problem

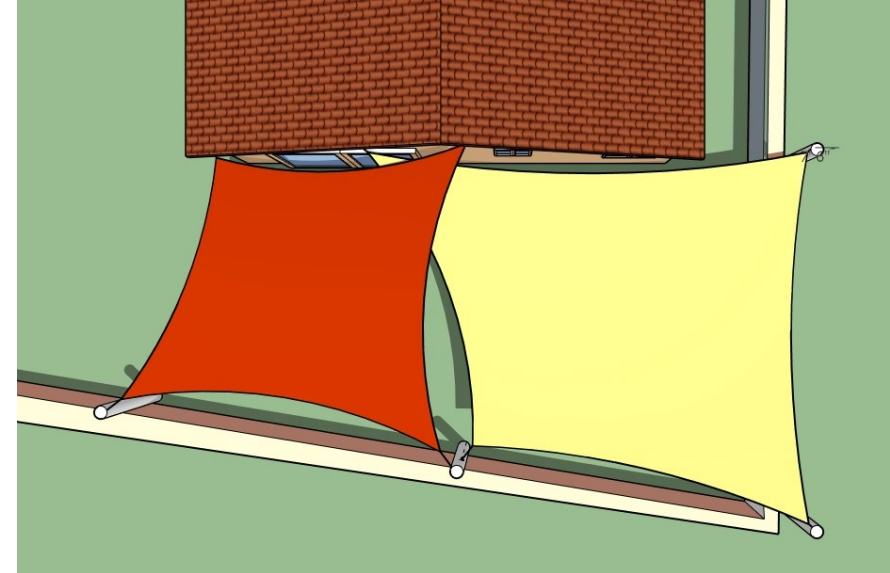
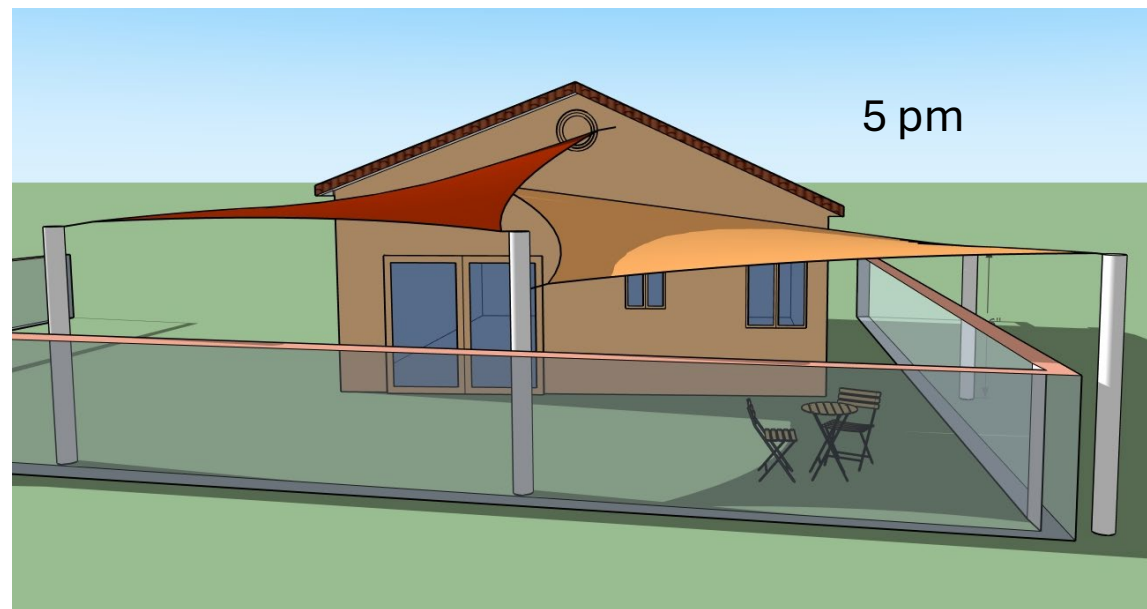
The Wrong Shade

The customer wanted to be able to sit at her patio table and enjoy her morning coffee.

After a lot of changes throughout the design process, the original shade goal was lost, and the final design did not shade the table.



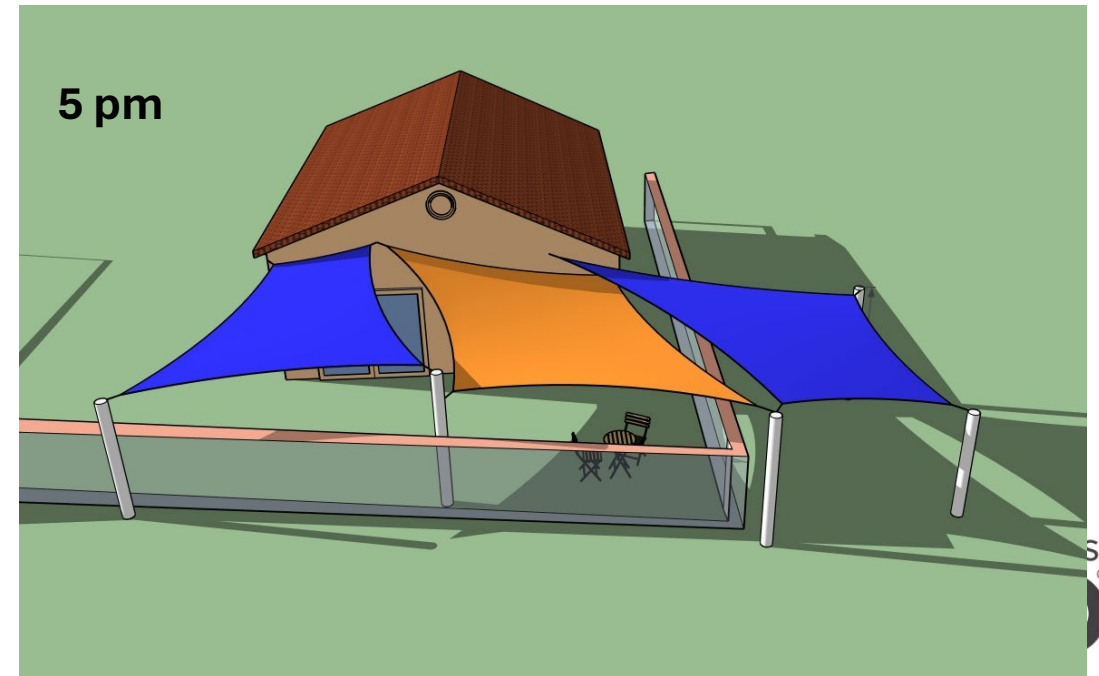
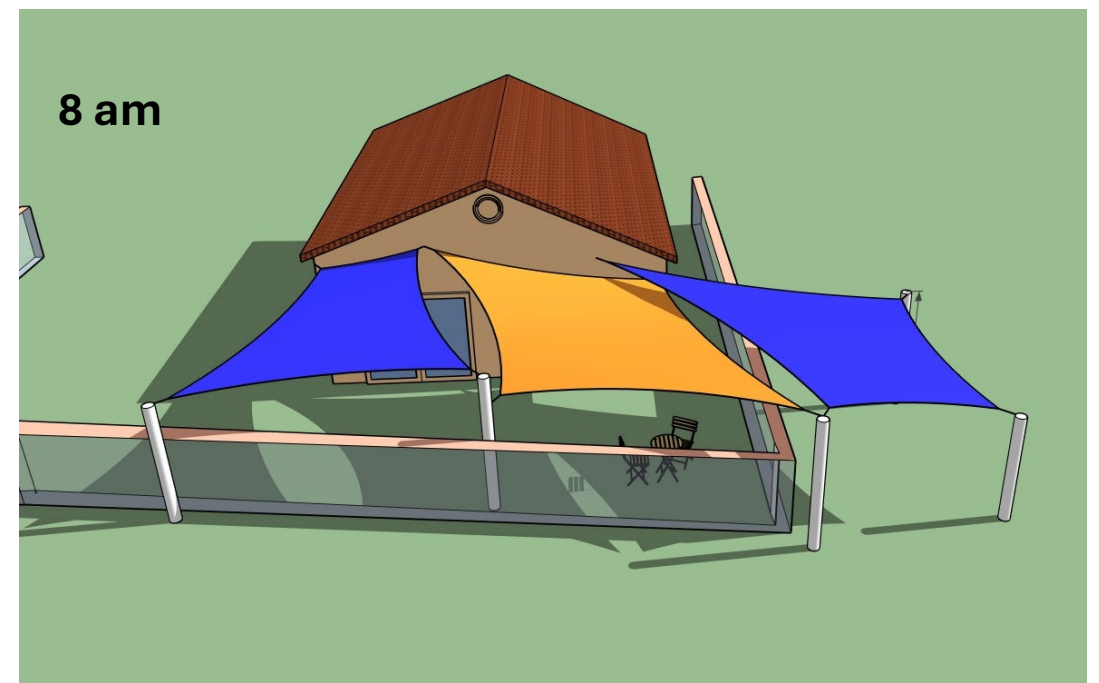
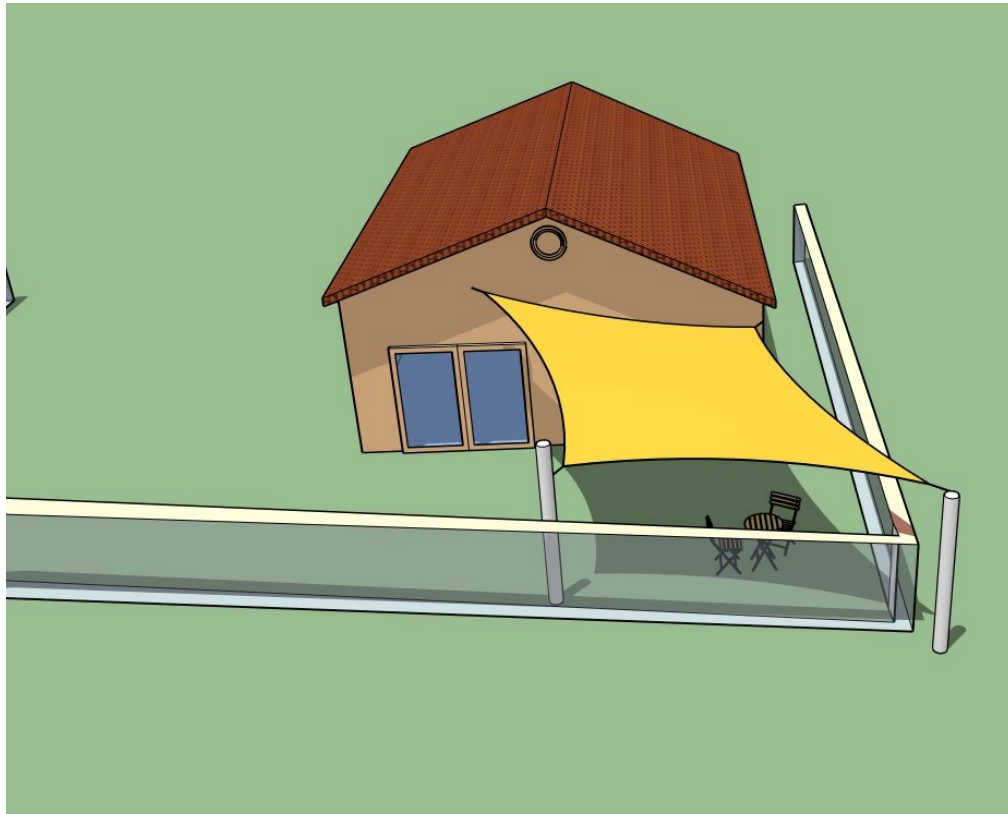
What would we do differently?





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How did we fix it?





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The Problem

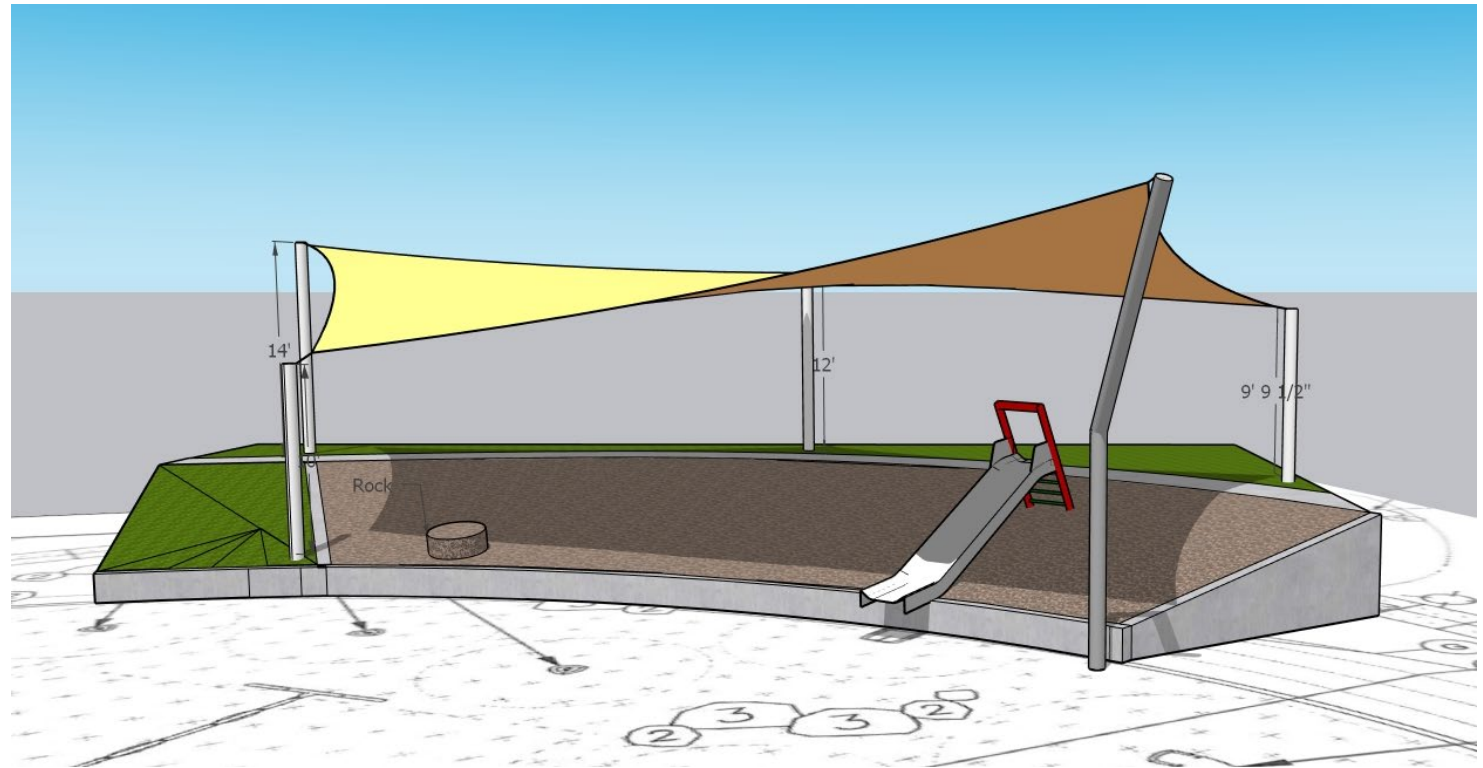
Poorly Planned Posts/Brackets

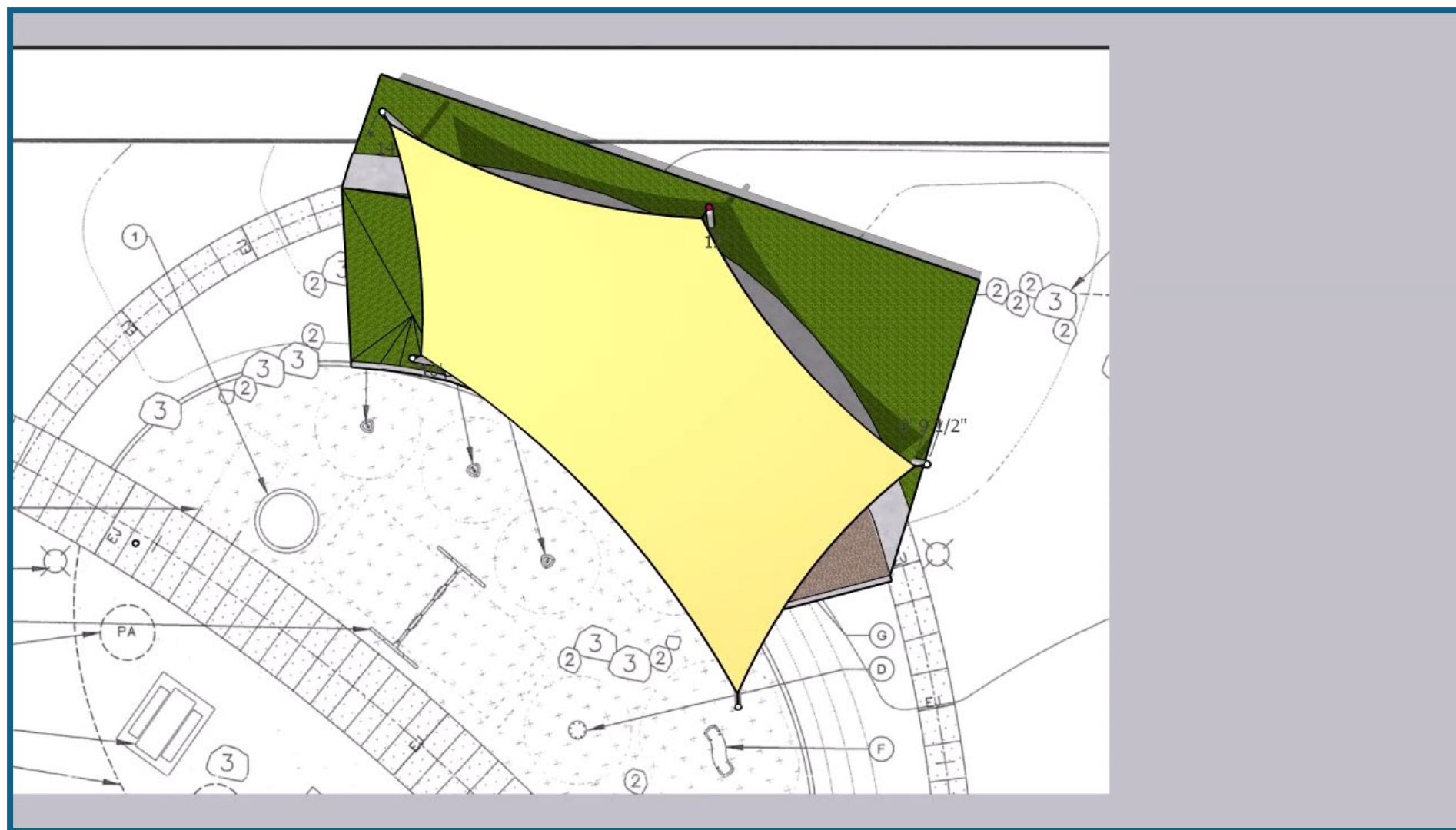
The intention for the shade was to cover the slide in addition to the general play area.

Not only does the slide get very little shade, but the frame is close to the top of the slide, enabling park goers to easily climb onto the structure causing damage and risking injury.



What would we do differently?





More Poorly Planned Brackets/Posts



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The Problem

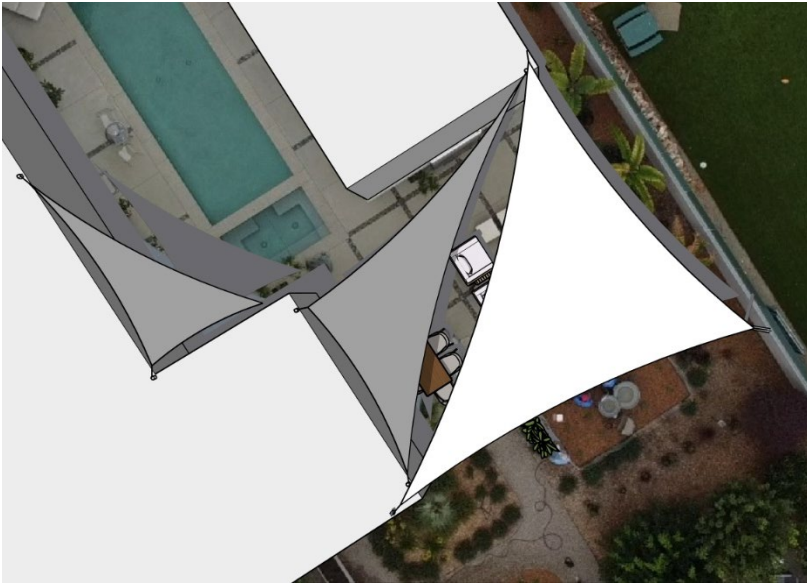
Misused Triangles

This customer wanted to add shade to the patio area. She had existing triangles and wanted to add a new one.

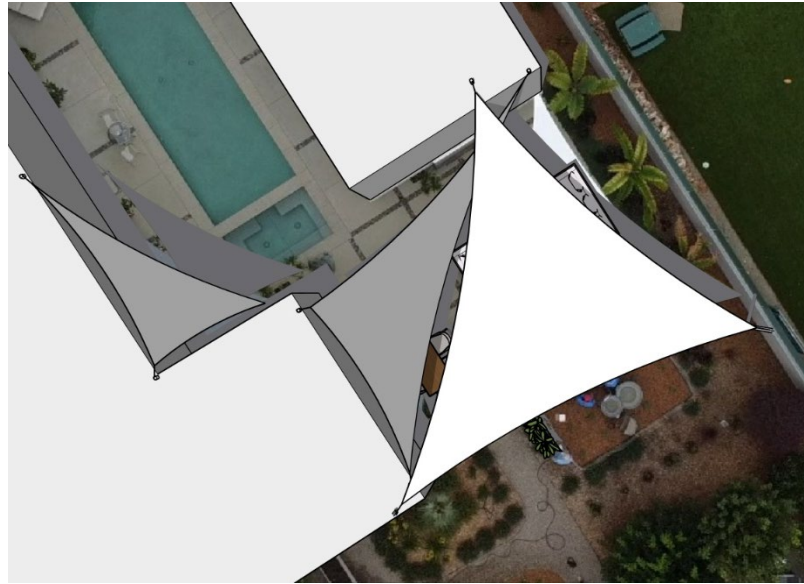
The triangles are a good shape, not too skinny, but the new triangle did not provide the shade coverage desired.



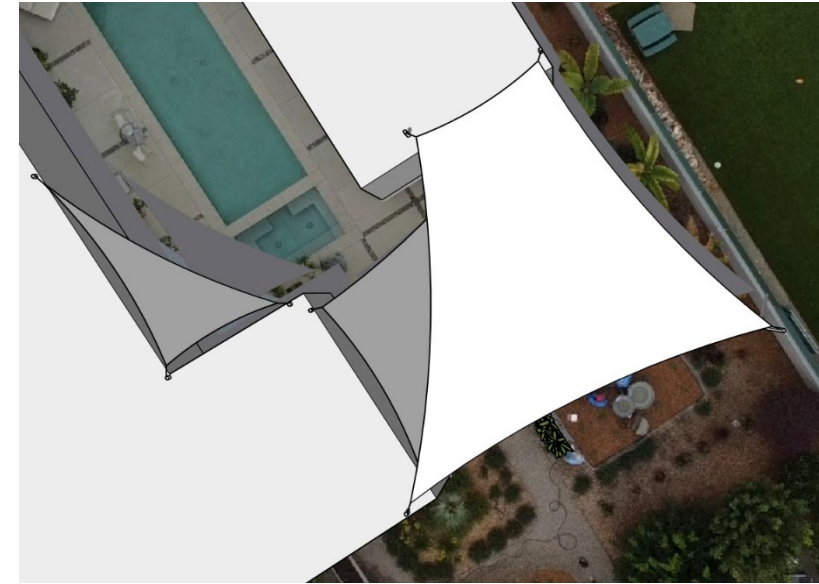
What would we do differently?



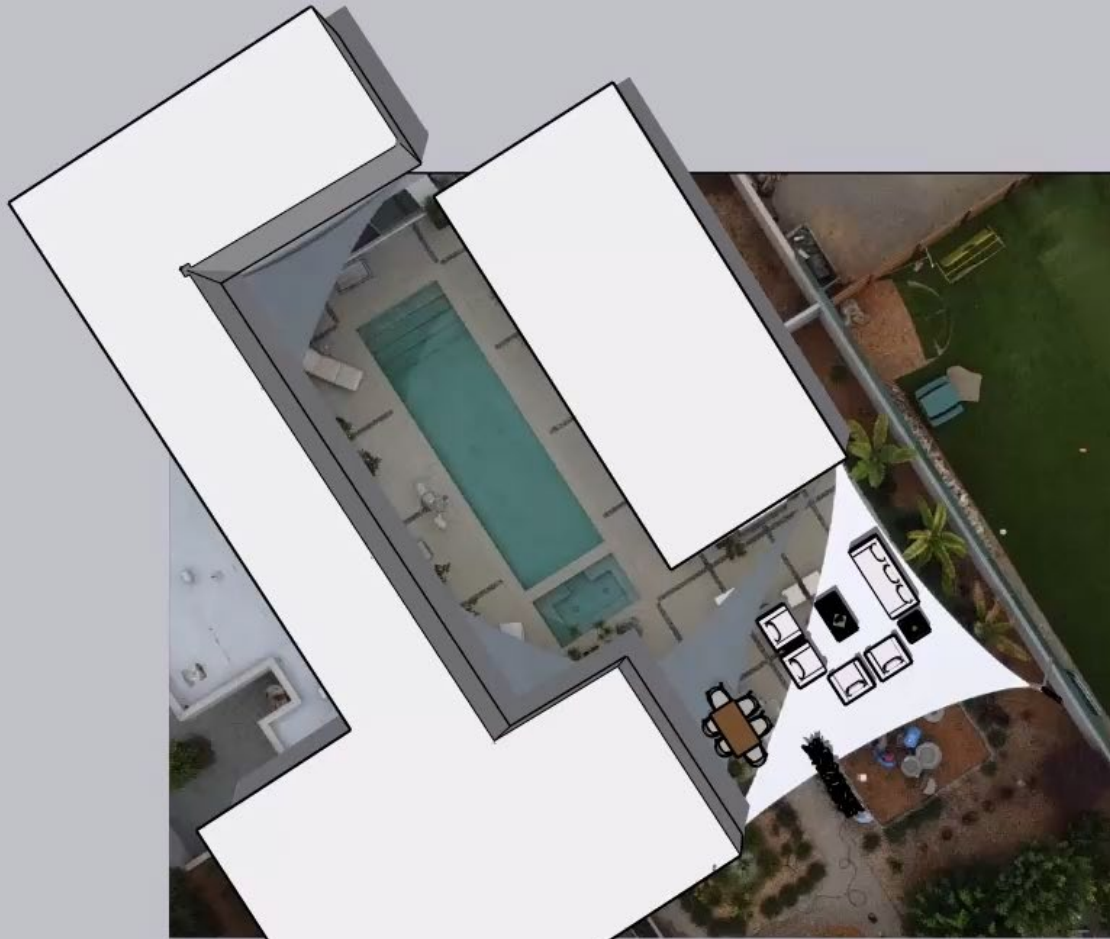
Installed Sail



Triangle Sail – Opt. 2



4-Corner Sail – Opt. 3



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Our hard-earned lessons:

- Too Skinny – Plan a wide base on your Triangle.
- Too Flat – Plan for a Hypar twist.
- Shade ends up in the wrong spot – Keep shade goals in mind.
- Poorly planned posts/brackets – Pay attention to how post/bracket adjustments impact the sail shape.
- Misused Triangles – Overlap, Kiss, and Combine with Rectangle sails to avoid gapping.



Thanks for Watching!

Don't make these mistakes like we did!
Visit us at our Booth #1354

Robin DuBroy



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See You Next Year



 **ORLANDO, FL**
Nov. 3-5, 2026



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