

A New Interactive Web-based Tool to Evaluate The Efficiency of Solar Protection Devices

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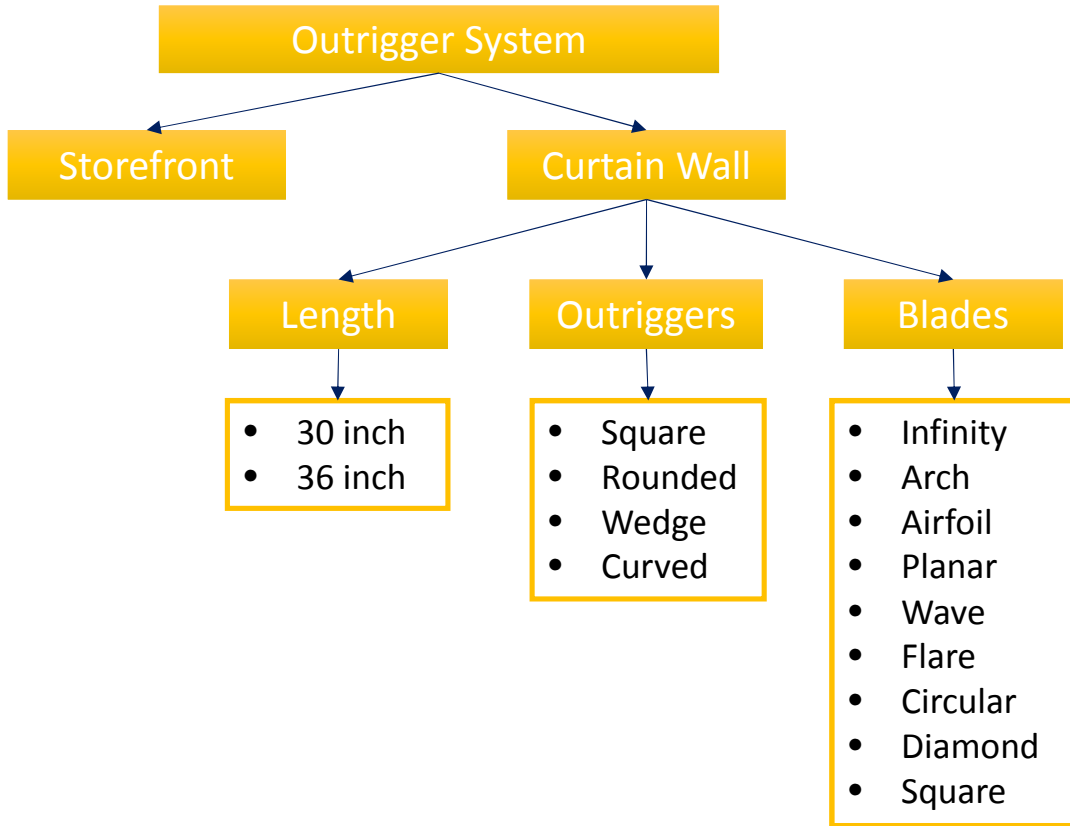
Iason Konstantzos


























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Matthew Miller

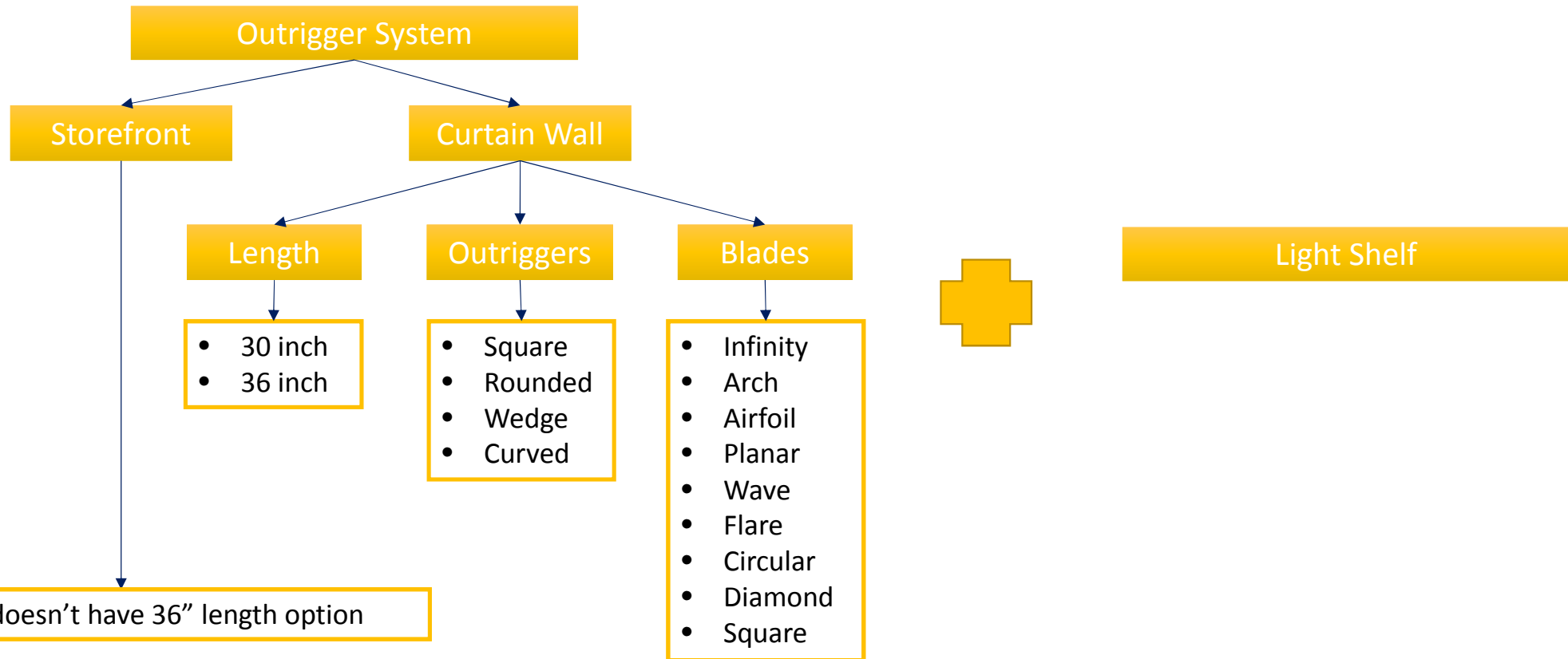
Objectives

Solar Protection Devices

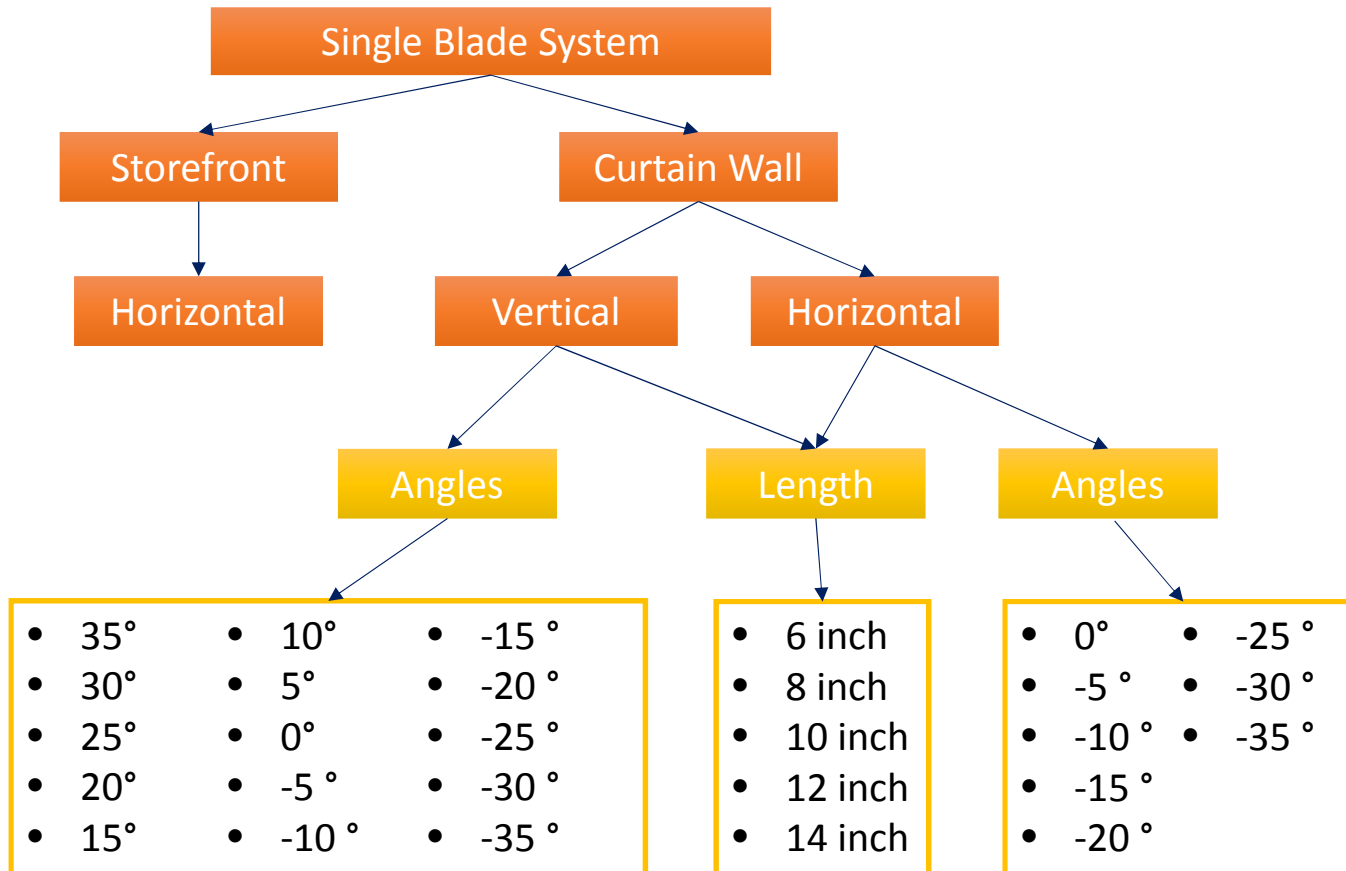


STANDARD OUTRIGGERS	STANDARD FASCIAS	STANDARD BLADES	
 30° SQUARE  36° SQUARE	 RECTANGULAR	 INFINITY  ARCH	 FLARE  CIRCULAR
 30° ROUNDED  36° ROUNDED	 BULLNOSE	 AIRFOIL  PLANAR  WAVE	 DIAMOND  SQUARE
 30° WEDGE  36° WEDGE	 ANGULAR	 CIRCULAR	
 30° CURVED  36° CURVED	 CIRCULAR	 CIRCULAR  DIAMOND	 SQUARE

Solar Protection Devices



Solar Protection Devices



Unit System:

Location:
 State/Province: City:

Room Dimensions and Orientation:
 Facade Orientation: Room Fenestration Width: m
 Room Height: m Room Depth: m

Glazing Properties:
 Glazing System SHGC: Glazing System U-factor: W/m² K
 Glazing System VT:

Scenario 2

Shading Type:
 Facade Framing: Frame Type: Glass Percentage:
 Vision Area:

With Lightshelf?

Window Height: cm
 Outrigger Length: cm
 Outrigger Type:
 Blade Type:

Scenario 1

Shading Type:
 Facade Framing: Frame Type: Glass Percentage:
 Vision Area:

With Lightshelf?

Window Height: cm
 Outrigger Length: cm
 Outrigger Type:
 Blade Type:

Calculations will take about 10-15 seconds to run – scroll down to see results