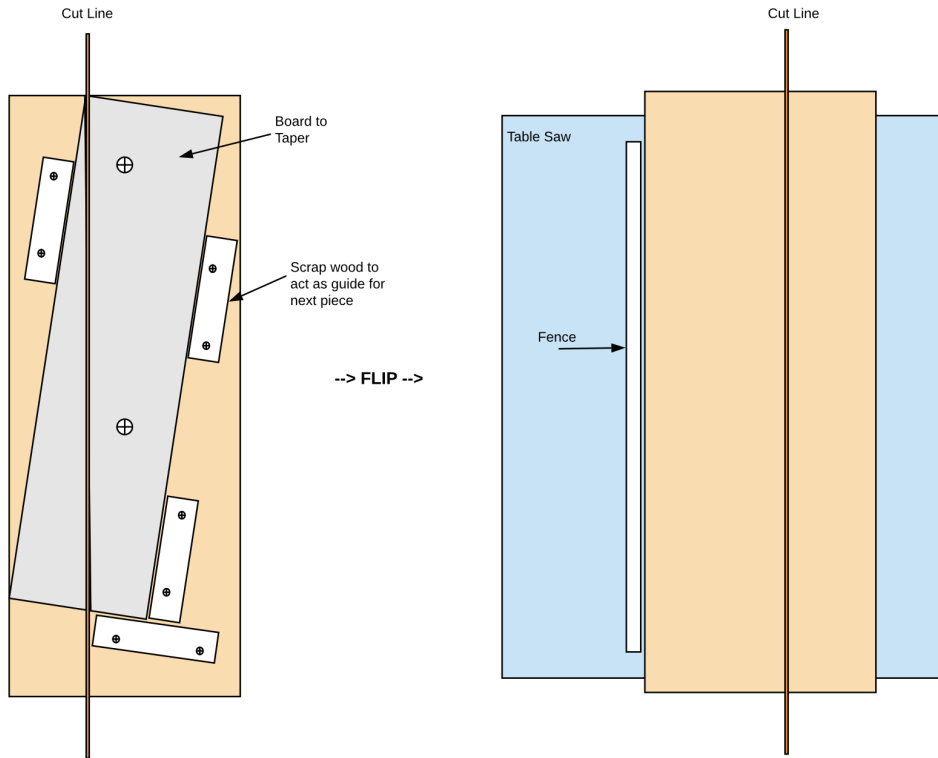


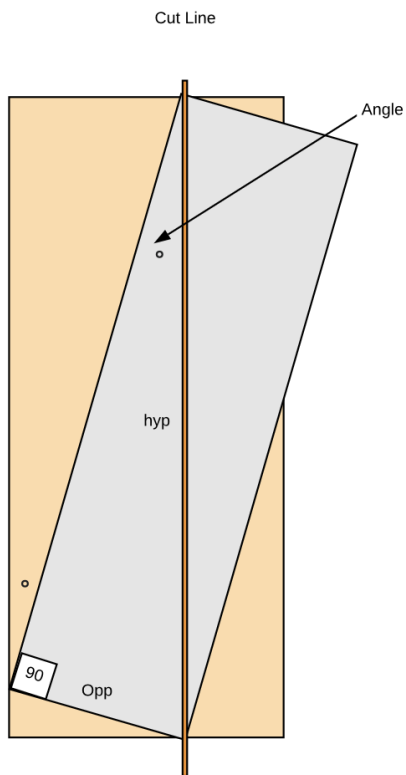
Ripping a Board at an Angle

Using a Table Saw to Rip a board at an Angle



Minimum Guide Board Length

We can figure out how long our guide board needs to be by using trigonometry assuming we know the angle of the cut and the width of the board to taper. This will obviously need to be longer if we want to add guides.



If you know the angle and width of board, you can calculate the length at which the cut will exit the board.

$\sin(\text{angle}) = \text{opposite} / \text{hypotenuse}$

Opp = board width (BW)

Hyp = guide board length (GBL)

$\sin(6) = \text{BW} / \text{GBL}$

$\text{GBL} = \text{BW} / \sin(\text{ANGLE})$

Given

Angle = 6°

BW = 4.25"

$\text{GBL} = 5.25" / \sin(6) = 50.22"$

References

Reference	URL
How To Cut a Tapered Board on a Tablesaw	https://www.youtube.com/watch?v=QCQvs5WyZ40
How to Make Safe Taper Cuts Using a Table Saw Rockler Skill Builders	https://www.youtube.com/watch?v=-kenfkWXo78