Ripping a Board at an Angle

Using a Table Saw to Rip a board at an Angle

Cut Line

Board to Taper

Scrap wood to act as guide for next piece

--> FLIP -->

Cut Line

Table Saw

Fence
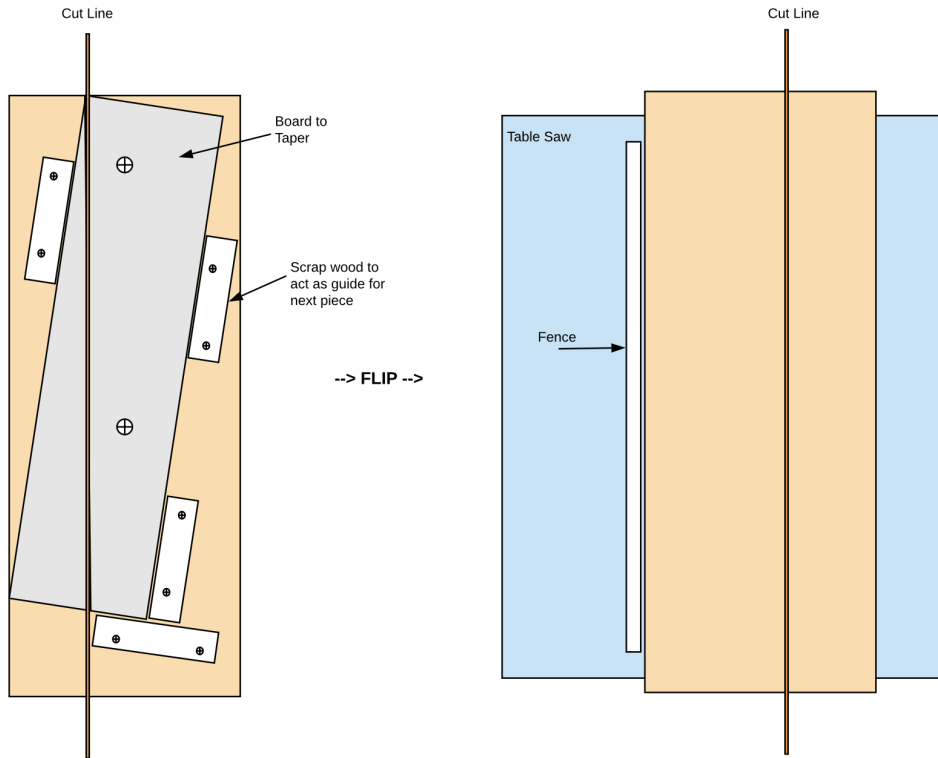
Minimum Guide Board Length

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.

Cut Line

Angle

hyp

Opp

90
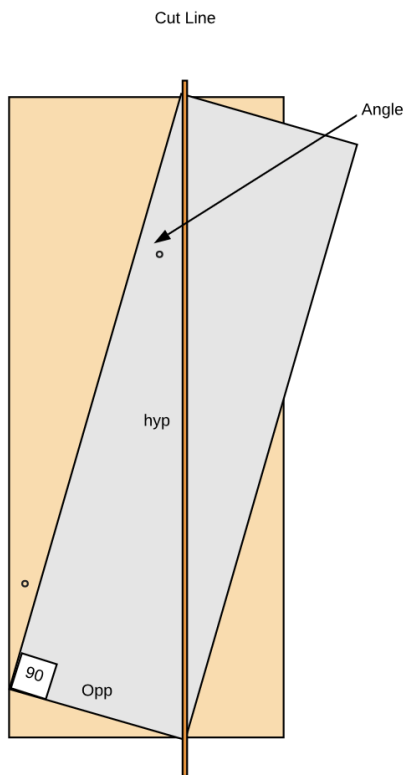
If you know the angle and width of board, you can calculate the length at which the cut will exit the board.

Sin (angle) = opposite / hypotenuse

Opp = board width (BW)

Hyp = guide board length (GBL)

sin(6) = BW/GBL

GBL = BW/sin(ANGLE)

Given

Angle = 6°

BW = 4.25"

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

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