



# Why a 40° Edge Angle for Slicing?

Slicing is the ability of a cutting edge to cut through the side grain fibers to expose end grain fibers.

## **45° or greater edge angle:**

Induces more interaction on end and mixed grain - creating bounce

Reduces the ability of the bevel to slide over end or mixed grain

Higher the angle, higher resistance to slicing

Much more likely to tear the end grain fibers

## **40° edge angle:**

Allows the blade to glide on the wood surface – helps to eliminate bounce

Neutral edge angle for slicing through side grain to expose end grain

Works for every density of wood from very soft to very dense

Eliminates torn grain (Sharp edge required)

## **35° or lower edge angle:**

Lower the angle = more aggressive tool

Does not give a better surface finish than 40°

Edge retention (life) is shortened sooner

More fragile cutting edge