What to use as shredder cross section for calculation

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Let's say you had a square cross-section long piece of plastic like this:

8" x 8" x 2"

So 2" thick, 2" tall, 8" long.

The cross section that will be used is if you cut the bar vertically:

This is what the cross section looks like:

So area is 2" x 2" = 4"

So the total length of material
does not matter.

also from this you see that the thickness of the cutting block also does not matter.

The only thing that matters is the size of the material cross section, or how big or a bite it is going to take.