Just-at edge of tipping:

· normal force @ A

$$zM_A \Rightarrow +Fd + mgh = +Fh_G$$

$$F(h_G-d) = mgb$$

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$$F = \frac{mgb}{(h_{G}-d)} = \frac{(6000 \text{ kg})(9.81 \text{ m/s}^{2})(0.8 \text{ m})}{(0.55(3.75)-1.2)}$$

$$F > 400 = no$$

$$a_{GX} = \frac{F}{m} = \frac{400 \,\text{N}}{600049} = \frac{0.067 \,\text{m/s}^2}{}$$