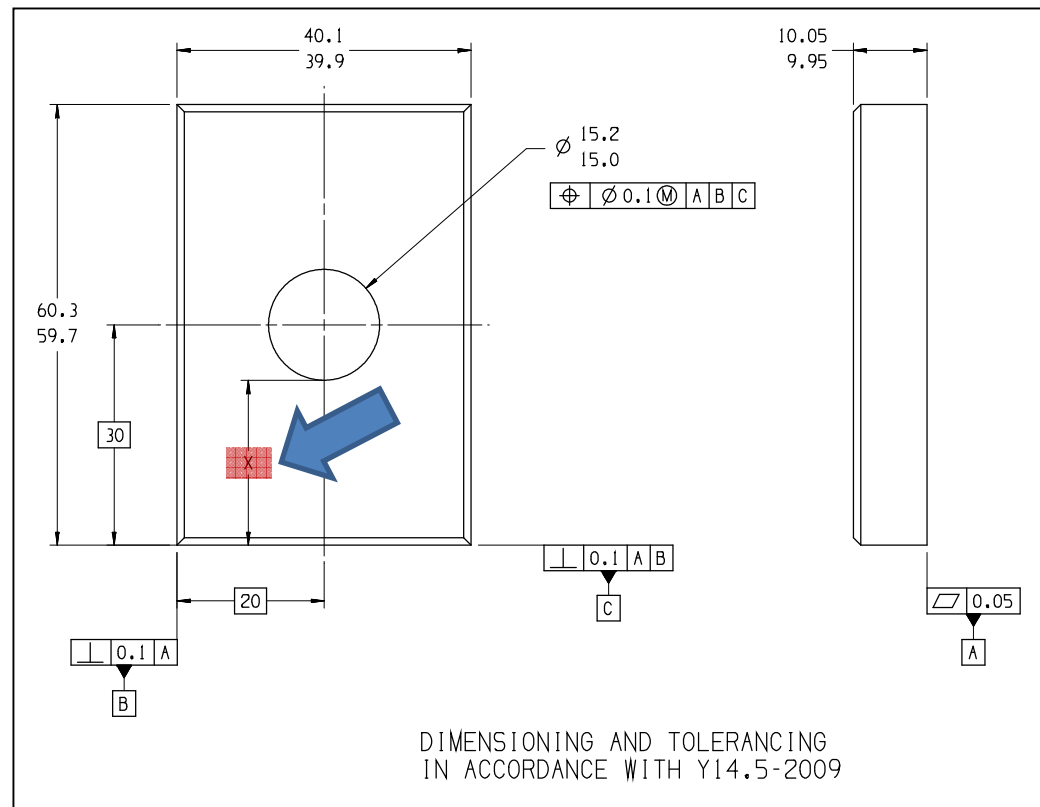
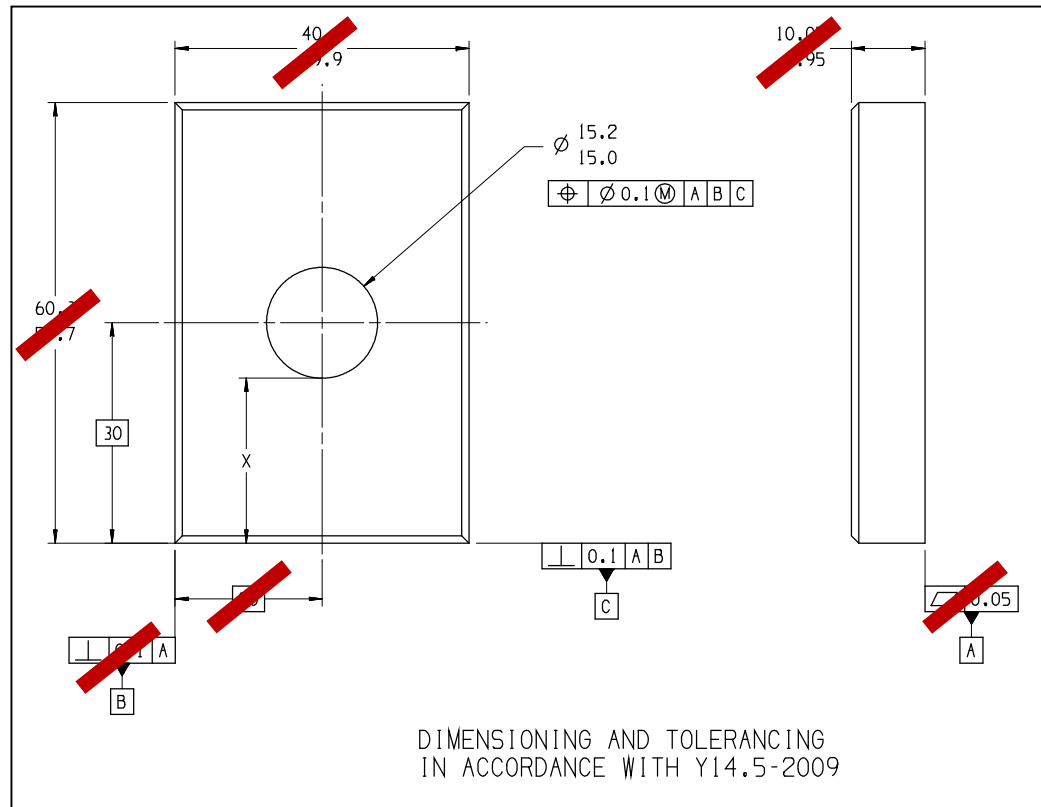


# STACK OBJECTIVE

**What is the minimum distance (X) between hole's surface and bottom side of the pad?**



# WHICH DIMENSIONS & TOLERANCES DO NOT INFLUENCE THE STACK?

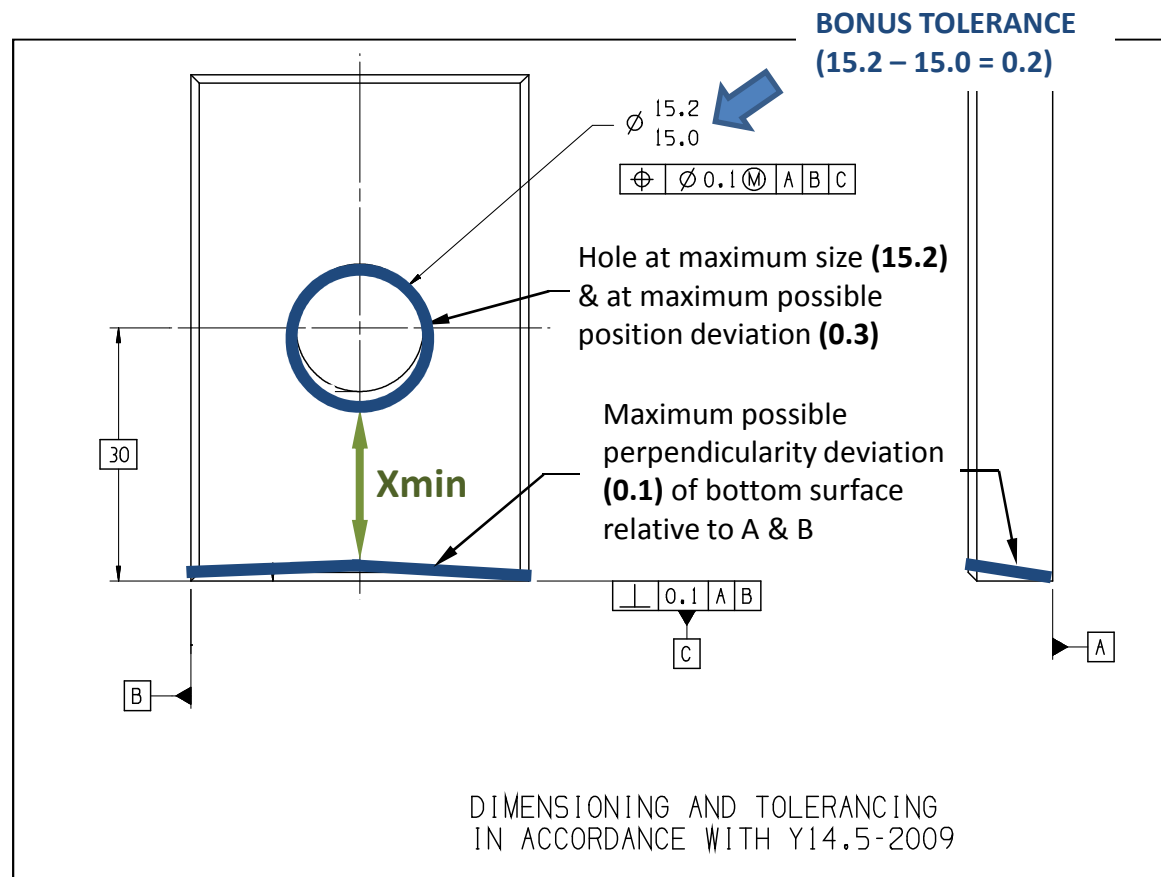


# WHAT IS THE WORST CASE SCENARIO FOR (Xmin)?

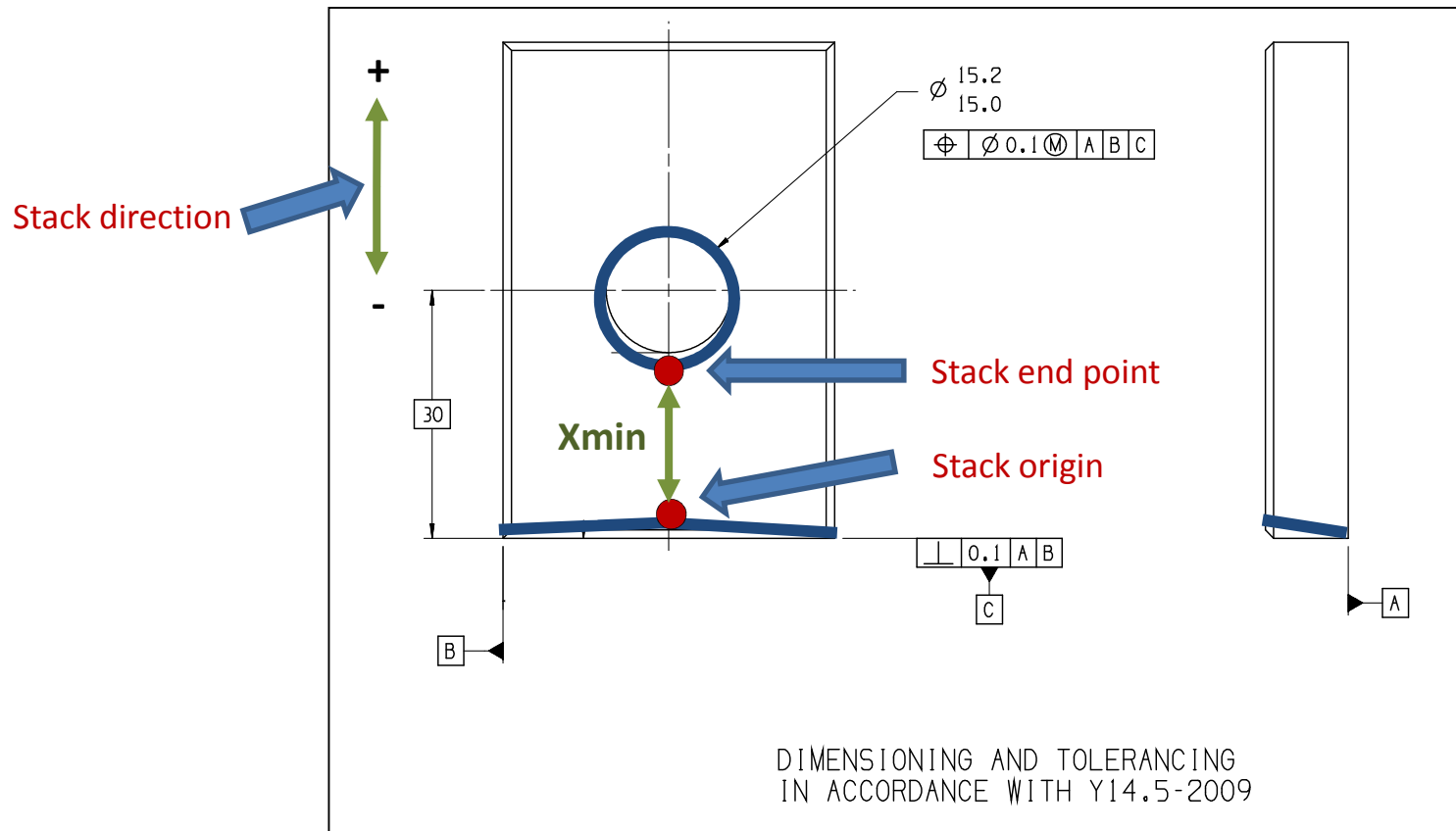
**The smallest possible distance (Xmin) occurs when:**

- hole is at its maximum size (15.2)
- deviation of hole's position is maximum allowable for this size of hole ( $0.1+0.2=0.3$ )
- perpendicularity deviation of bottom surface of the pad is maximum possible (0.1)

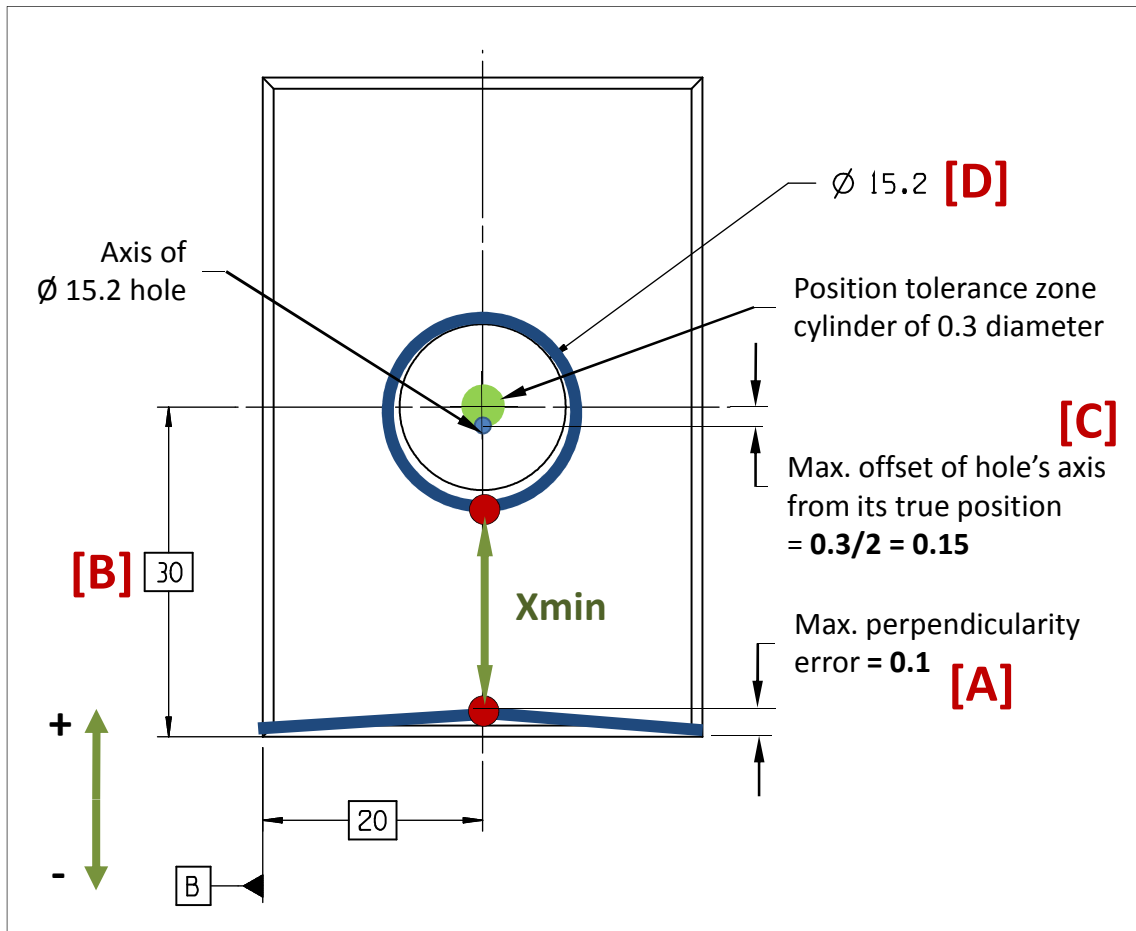
BONUS TOLERANCE



# WHERE SHOULD THE STACK START & END?



## HOW TO CALCULATE (Xmin)?



$$X_{min} = -[A] + [B] - [C] - [D]/2$$

$$X_{min} = -0.1 + 30 - 0.15 - 15.2/2$$

$$X_{min} = -0.1 + 30 - 0.15 - 7.6$$

$$X_{min} = \underline{\underline{22.15}}$$