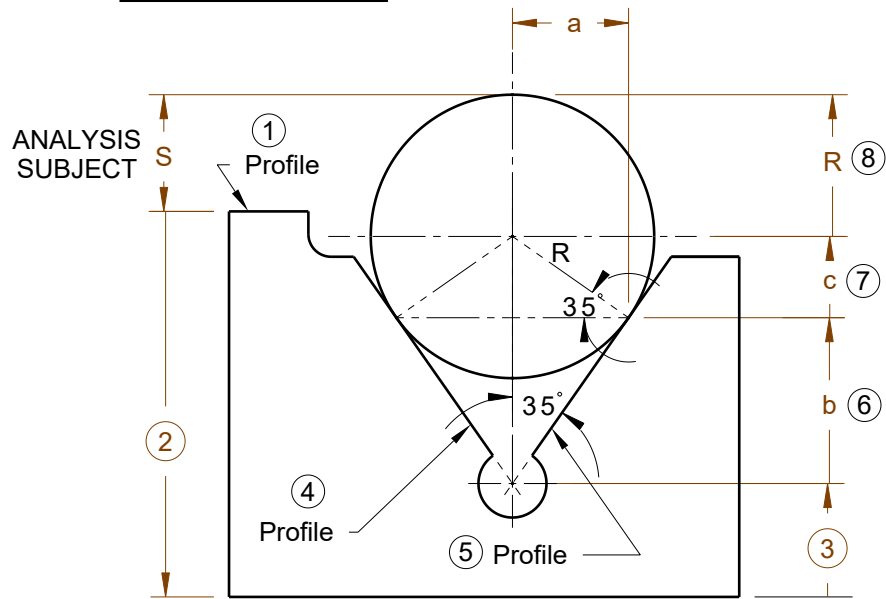


STACK UP ANALYSIS



Calculations:

$$R = (\phi 2.5 \pm 0.2) / 2 \rightarrow R = 1.25 \pm 0.1$$

$$a = R \cos 35^\circ = (1.25 \pm 0.1) \cos 35^\circ \rightarrow a = 0.942 - 1.105 \rightarrow a = 1.0235 \pm 0.0815$$

$$b = a / \tan 35^\circ = 1.345 - 1.578 \rightarrow b = 1.46 \pm 0.1165$$

$$c = R \sin 35^\circ = (1.25 \pm 0.1) \sin 35^\circ \rightarrow c = 0.66 - 0.774 \rightarrow c = 0.717 \pm 0.057$$

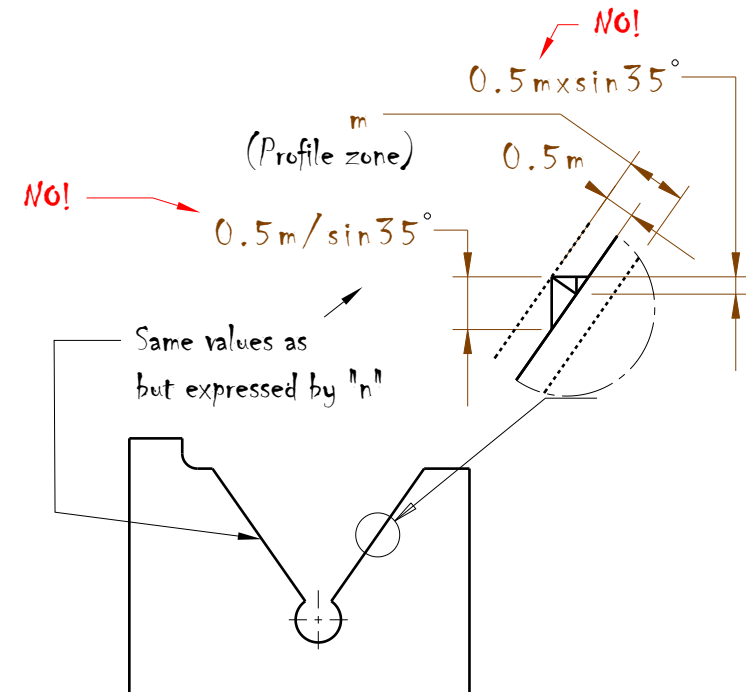
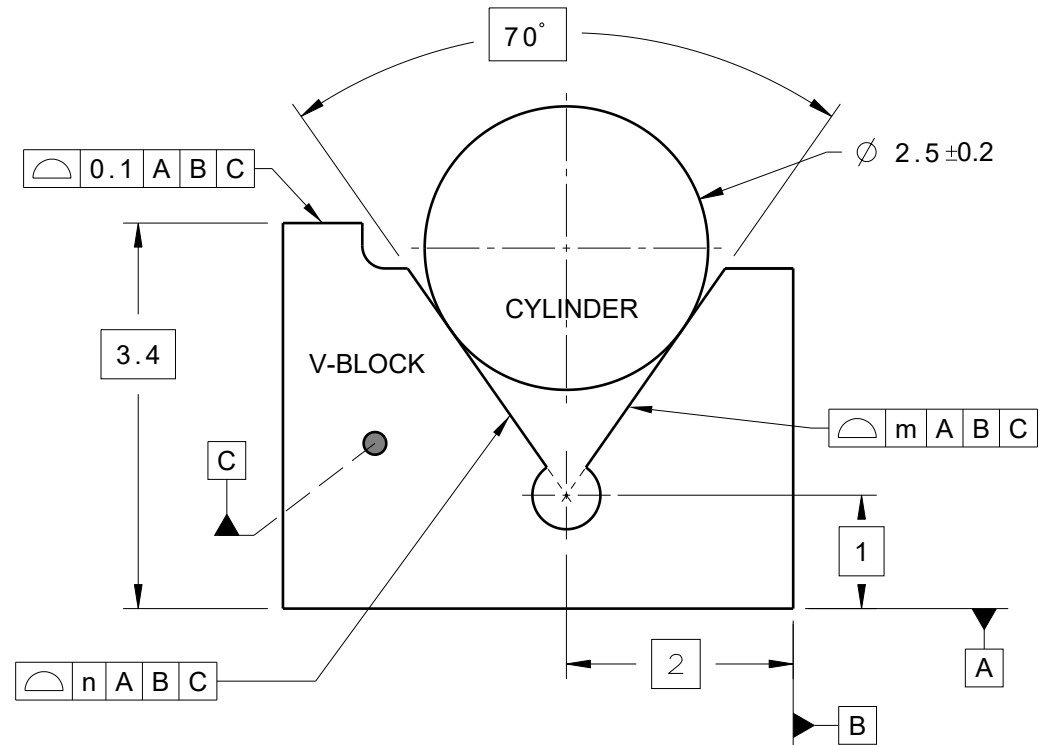
PART	ITEM	+ DIMS	- DIMS	TOL	ADD. INFO
V-BLOCK	①			± 0.05	PROFILE
V-BLOCK	②		-3.4	-	BASIC DIM.
V-BLOCK	③	+1		-	BASIC DIM.
V-BLOCK	④			$\pm ?$	PROFILE
V-BLOCK	⑤			$\pm ?$	PROFILE
CYLINDER	⑥	+1.46		± 0.1165	TRIGO CALC.
CYLINDER	⑦	+0.717		± 0.057	TRIGO CALC.
CYLINDER	⑧	+1.25		± 0.1	HALF DIA. SPEC.

RESULT - WC:

S-DIMENSION	TOT. VARIATION	S-MIN	S-MAX
1.027	$\pm 0.323 \pm ??$	1.027 - 0.323 - ??	1.027 + 0.323 + ??

effects of profile tol. on the "V" shape

ASSEMBLY VIEW + COMPONENT SPECS



How do the profile tolerances resolve to the stack direction?