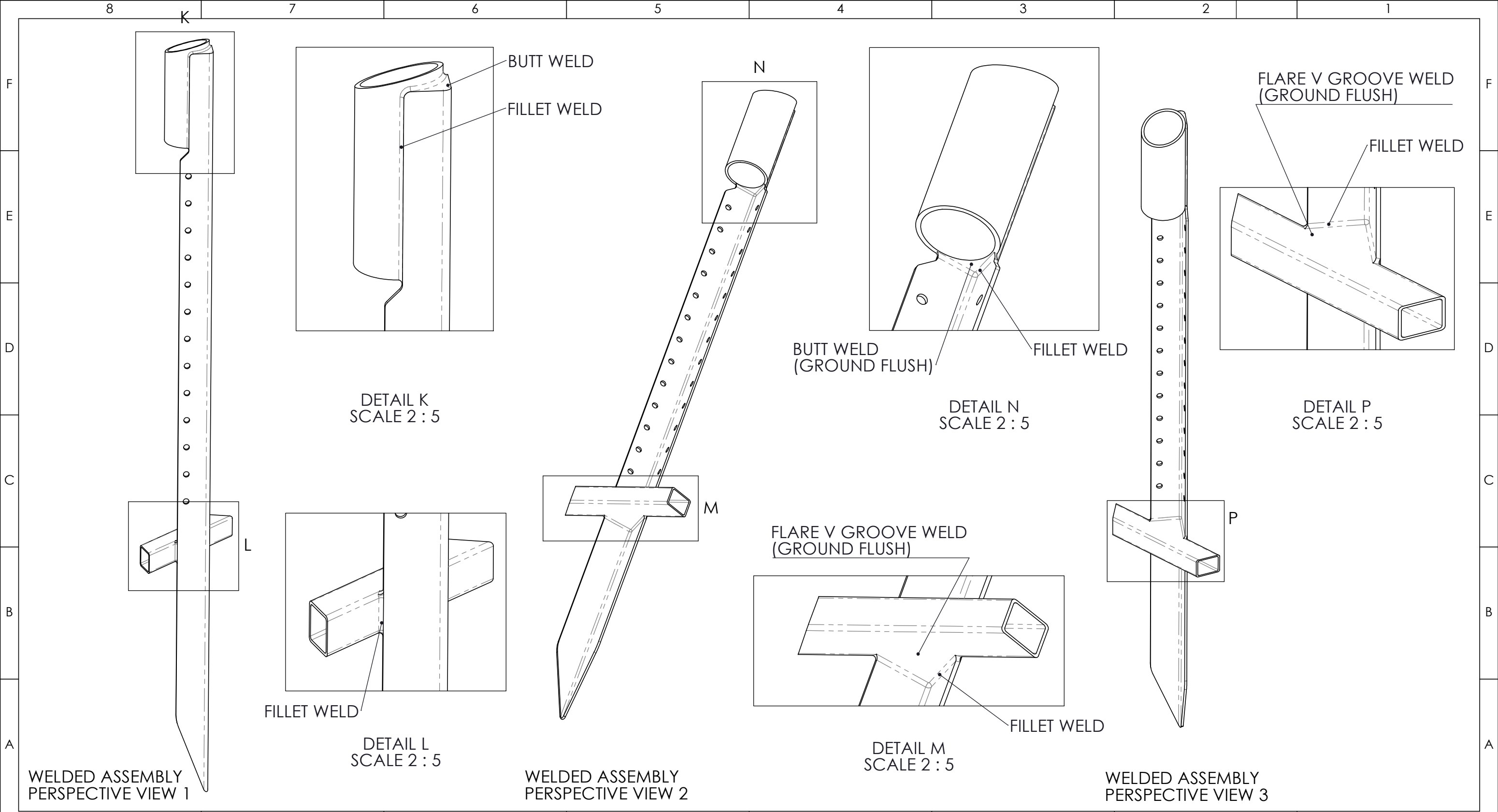





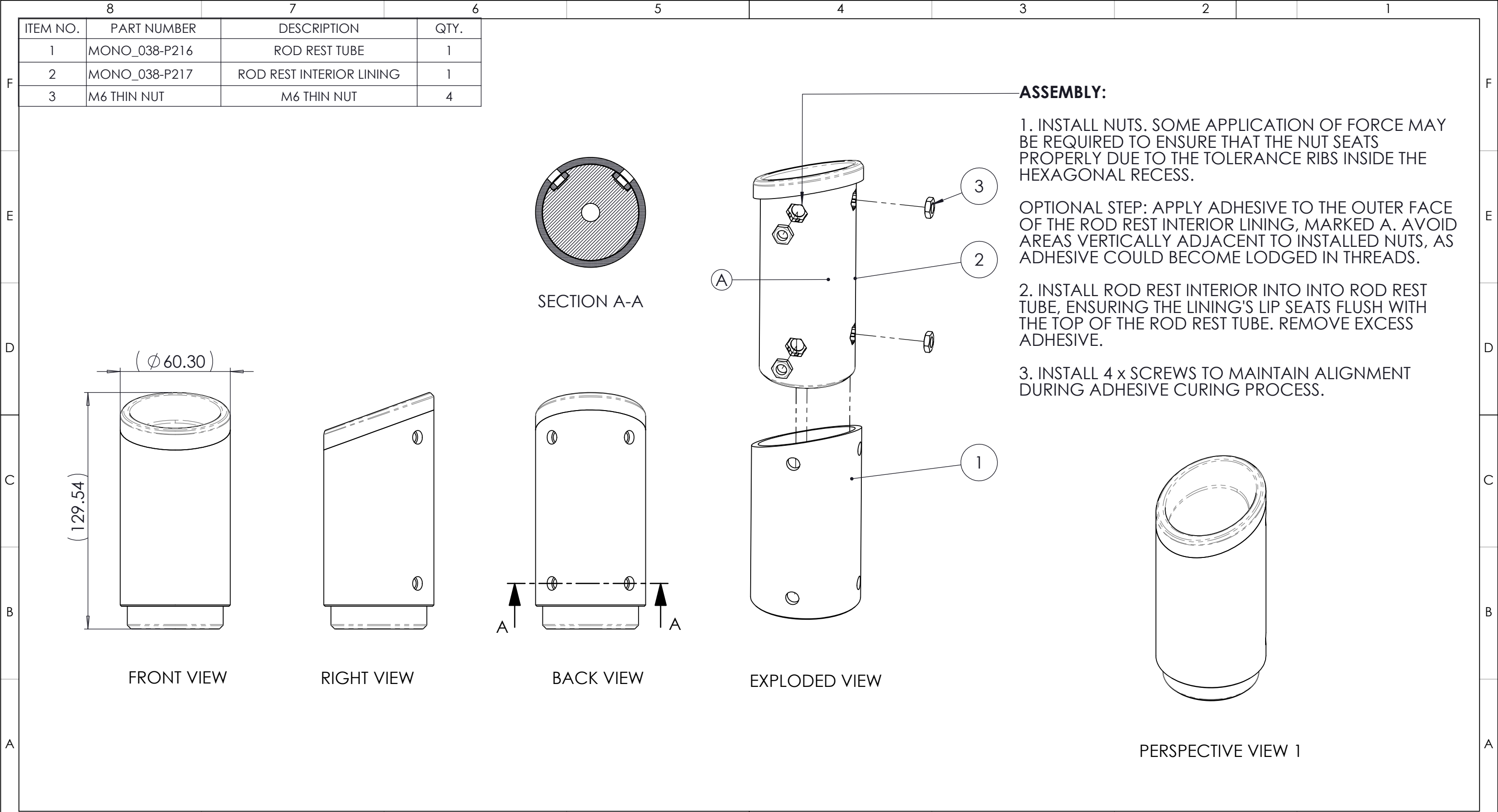


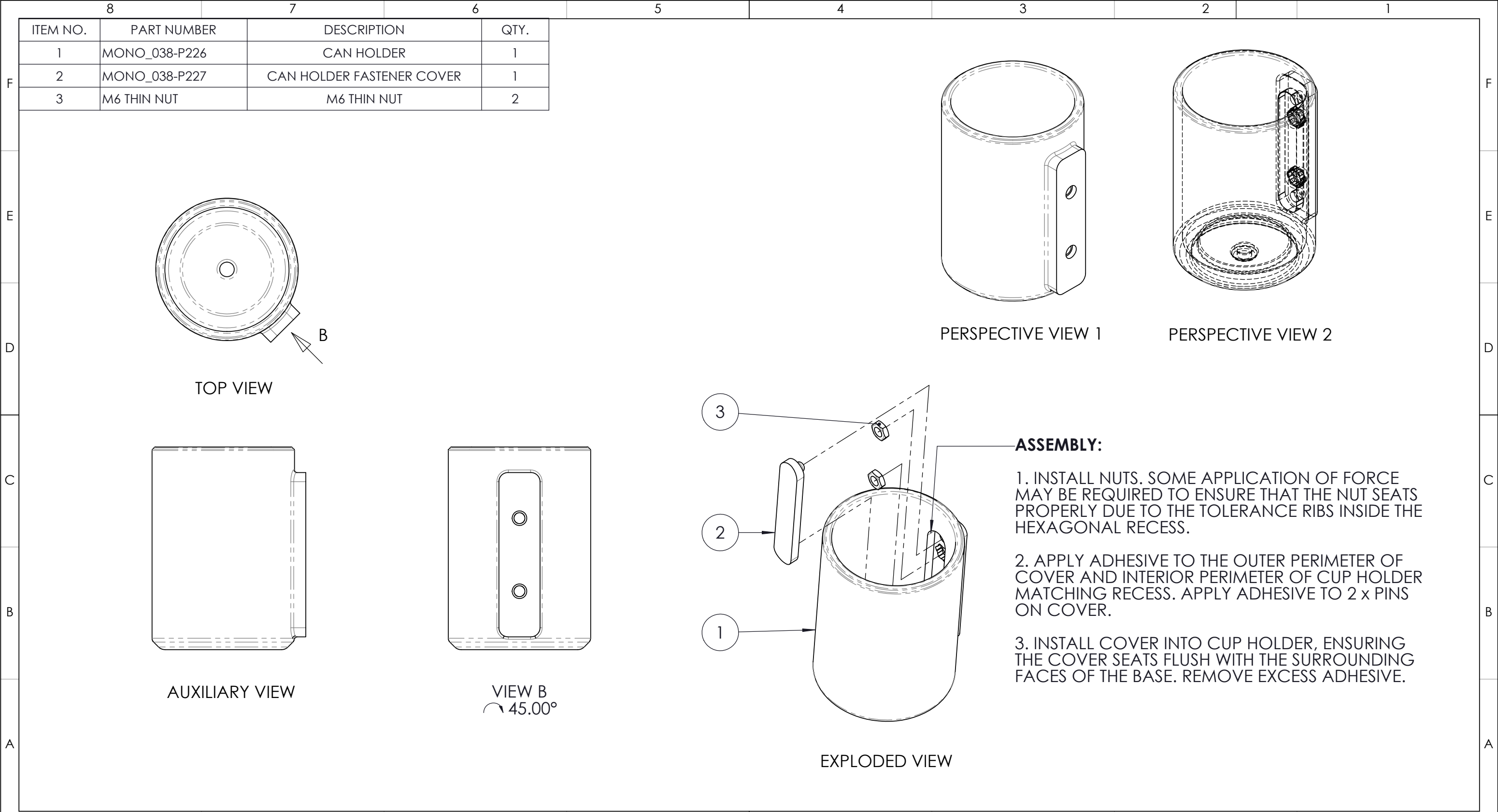
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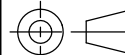




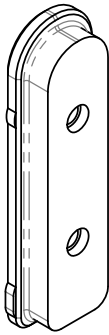
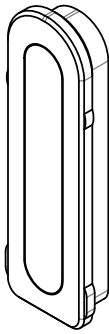
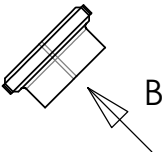
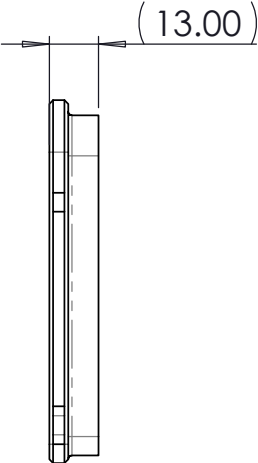
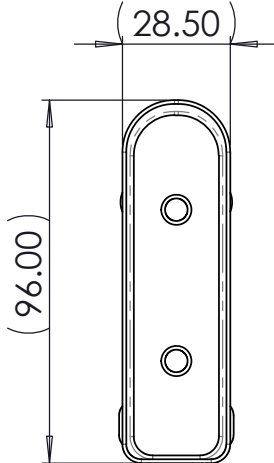
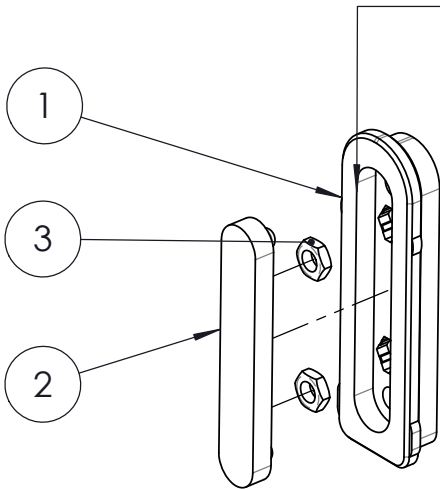


<div>TOLERANCES</div> <ul style="list-style-type: none">Unless otherwise specified (UOS), all dimensions on this assembly drawing are for reference only. The final assembly condition is the result of the accumulated tolerances (stack-up) of the individual manufactured components.All components shall be manufactured to the dimensions and tolerances specified on their respective detail drawings.Critical interface or functional dimensions on the assembly are identified with a specific tolerance. These dimensions shall be achieved through component tolerancing, assembly processes, or adjustment.Mating parts to be free of interference, binding, or misalignment UOS.		<div>DIMENSIONS</div> <ul style="list-style-type: none">All dimensions are in millimetres unless otherwise indicated.Critical inspection dimension: Dimensions with ** may require adjustment during tool trials.First article inspection number:  (supplier to provide a report detailing accuracy to each of these dimensions).Other dimensions for reference.		<div>GENERAL NOTES</div> <ul style="list-style-type: none">This drawing to be read in conjunction with all detail drawings and specifications referenced in the Bill of Materials (BOM).Fabricate or procure all components as per the BOM.Assembly shall be kept clean and free of all dirt, debris, metal chips, and foreign contaminants throughout the build process.Refer to individual component drawings for all finishing requirements.Remove all burrs and break all sharp edges on components prior to assembly.Final assembly shall be free of loose hardware, debris, and foreign objects.Final assembly to be free of scratches, tool marks, stains, and other cosmetic defects.Workmanship should be consistent with best industry practices.		<div>DESIGN INTENT</div> <p>UOS fabricate per individual part drawings. The 3D model represents the final formed condition for reference.</p> 		<div>© COPYRIGHT</div> <p>This drawing is supplied in confidence. Do not disclose to any third party without prior written consent from Manufacturing Skills Queensland</p>		<div> MANUFACTURING SKILLS QUEENSLAND</div> <div> monochrome www.monochrome-design.com</div>										
<div>ASSEMBLY NOTES</div> <ul style="list-style-type: none">Tighten all threaded fasteners to standard torque values for their size and grade, UOS.All moving parts shall operate smoothly and freely through their entire range of motion, without binding.All components shall assemble without use of excessive force.		<div>SURFACE TEXTURE KEY</div> <p>Refer to individual part drawings</p> <table><tr><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td></tr></table>		--	--	--	--	--	--	--	--	--	<div>PROJECT NAME</div> Fishing Rod Spike		<div>COLOUR:</div> Student's Preference (Refer to BOM)		<div>PART NAME:</div> <div>MONO_038-a205</div>		<div>DESCRIPTION:</div> <div>Fishing Rod Spike Welded Assembly</div> <div>A3</div> <div>SHEET 2 OF 2</div>	
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				--	--	--														
				<div>DRAWING TYPE</div> Assembly		<div>FINISH:</div> Sand, Prime + Topcoat (Refer to BOM)														
<div>DATE CREATED</div> Monday, 15 September 2025		<div>MATERIAL:</div> Refer to Part Drawings																		
				<div>NOTES:</div> <table><tr><td>02</td><td>Spike gauge + holes up'd</td><td>17/03/2026</td></tr><tr><td>01</td><td>Initial Release</td><td>15/09/2025</td></tr><tr><td>#</td><td>DESCRIPTION</td><td>DATE</td></tr></table>		02	Spike gauge + holes up'd	17/03/2026	01	Initial Release	15/09/2025	#	DESCRIPTION	DATE						
02	Spike gauge + holes up'd	17/03/2026																		
01	Initial Release	15/09/2025																		
#	DESCRIPTION	DATE																		
DO NOT SCALE DRAWING		SCALE:1:6																		

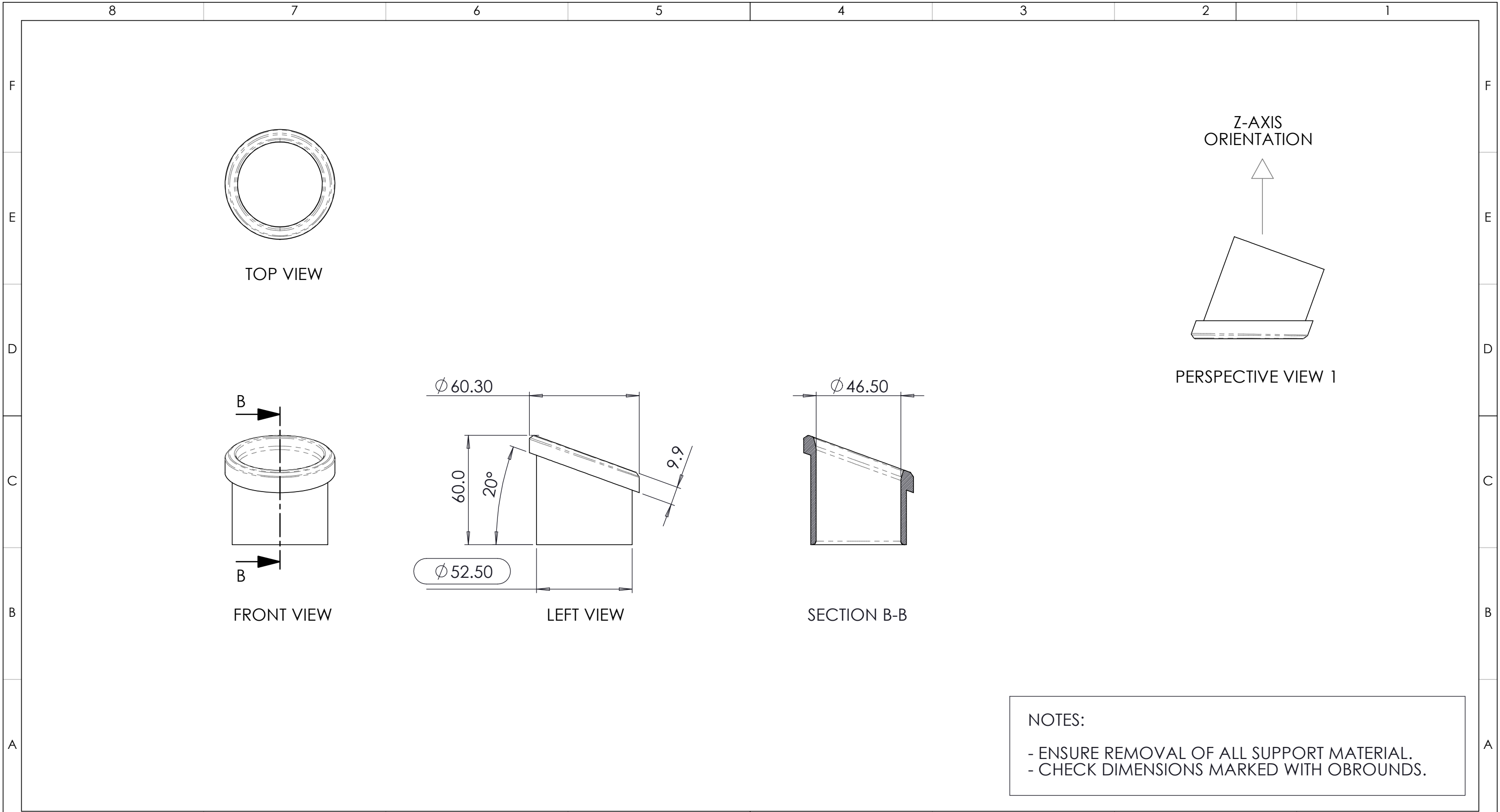


<div>TOLERANCES</div> <ul style="list-style-type: none">Unless otherwise specified (UOS), all dimensions on this assembly drawing are for reference only. The final assembly condition is the result of the accumulated tolerances (stack-up) of the individual manufactured components.All components shall be manufactured to the dimensions and tolerances specified on their respective detail drawings.Critical interface or functional dimensions on the assembly are identified with a specific tolerance. These dimensions shall be achieved through component tolerancing, assembly processes, or adjustment.Mating parts to be free of interference, binding, or misalignment UOS.		<div>DIMENSIONS</div> <ul style="list-style-type: none">All dimensions are in millimetres unless otherwise indicated.Critical inspection dimension: Dimensions with ** may require adjustment during tool trials.First article inspection number: (supplier to provide a report detailing accuracy to each of these dimensions).Other dimensions for reference.		<div>GENERAL NOTES</div> <ul style="list-style-type: none">This drawing to be read in conjunction with all detail drawings and specifications referenced in the Bill of Materials (BOM).Fabricate or procure all components as per the BOM.Assembly shall be kept clean and free of all dirt, debris, metal chips, and foreign contaminants throughout the build process.Refer to individual component drawings for all finishing requirements.Remove all burrs and break all sharp edges on components prior to assembly.Final assembly shall be free of loose hardware, debris, and foreign objects.Final assembly to be free of scratches, tool marks, stains, and other cosmetic defects.Workmanship should be consistent with best industry practices.		<div>DESIGN INTENT</div> <div>UOS fabricate per individual part drawings. The 3D model represents the final formed condition for reference.</div> <div></div>		<div>© COPYRIGHT</div> <div>This drawing is supplied in confidence. Do not disclose to any third party without prior written consent from Manufacturing Skills Queensland</div> <div></div>		<div></div> <div>www.monochrome-design.com</div>																																	
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				DRAWING TYPE		Part Drawing		FINISH: Refer to Part Drawing		MONO_038-a215																																	
				DATE CREATED		Tuesday, 16 September 2025		MATERIAL: Refer to Part Drawing		DESCRIPTION:																																	
				NOTES:						A3																																	
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







<div>TOLERANCES</div> <ul style="list-style-type: none">Unless otherwise specified (UOS), all dimensions on this assembly drawing are for reference only. The final assembly condition is the result of the accumulated tolerances (stack-up) of the individual manufactured components.All components shall be manufactured to the dimensions and tolerances specified on their respective detail drawings.Critical interface or functional dimensions on the assembly are identified with a specific tolerance. These dimensions shall be achieved through component tolerancing, assembly processes, or adjustment.Mating parts to be free of interference, binding, or misalignment UOS.		<div>DIMENSIONS</div> <ul style="list-style-type: none">All dimensions are in millimetres unless otherwise indicated.Critical inspection dimension: Dimensions with ** may require adjustment during tool trials.First article inspection number:  (supplier to provide a report detailing accuracy to each of these dimensions).Other dimensions for reference.		<div>GENERAL NOTES</div> <ul style="list-style-type: none">This drawing to be read in conjunction with all detail drawings and specifications referenced in the Bill of Materials (BOM).Fabricate or procure all components as per the BOM.Assembly shall be kept clean and free of all dirt, debris, metal chips, and foreign contaminants throughout the build process.Refer to individual component drawings for all finishing requirements.Remove all burrs and break all sharp edges on components prior to assembly.Final assembly shall be free of loose hardware, debris, and foreign objects.Final assembly to be free of scratches, tool marks, stains, and other cosmetic defects.Workmanship should be consistent with best industry practices.		<div><div><div>--</div><div>--</div><div>--</div><div>--</div><div>--</div><div>--</div><div>--</div><div>--</div><div>--</div><div>--</div><div>02</div><div>Interface width reduced</div><div>17/03/2026</div><div>01</div><div>Initial Release</div><div>16/09/2025</div><div>#</div><div>DESCRIPTION</div><div>DATE</div></div></div>		<div><div>DESIGN INTENT</div><div>UOS fabricate per individual part drawings. The 3D model represents the final formed condition for reference.</div><div></div></div> <div><div>PROJECT NAME</div><div>Fishing Rod Spike</div></div> <div><div>DRAWING TYPE</div><div>Part Drawing</div></div> <div><div>DATE CREATED</div><div>Tuesday, 16 September 2025</div></div> <div><div>NOTES:</div></div>		<div><div>© COPYRIGHT</div><div>This drawing is supplied in confidence. Do not disclose to any third party without prior written consent from Manufacturing Skills Queensland</div></div> <div><div>COLOUR:</div><div>Refer to Part Drawing</div></div> <div><div>FINISH:</div><div>Refer to Part Drawing</div></div> <div><div>MATERIAL:</div><div>Refer to Part Drawing</div></div>		<div><div><div>MANUFACTURING SKILLS QUEENSLAND</div></div><div><div>www.monochrome-design.com</div></div></div> <div><div>PART NAME:</div><div>MONO_038-a225</div></div> <div><div>DESCRIPTION:</div><div>Can Holder Assembly</div><div>A3</div><div>SHEET 1 OF 1</div></div> <div><div>DO NOT SCALE DRAWING</div><div>SCALE:1:2</div></div>	
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ITEM NO.		PART NUMBER		DESCRIPTION		QTY.		<div><div></div><div></div></div> <div><div>PERSPECTIVE VIEW 1</div><div>PERSPECTIVE VIEW 2</div></div>							
1		MONO_038-P231		Accessory Attachment Base		1									
2		MONO_038-P232		ACCESSORY FASTENER COVER		1									
3		M6 THIN NUT		M6 THIN NUT		2									
<div><div></div><div>TOP VIEW</div></div>		<div><div></div><div>AUXILIARY VIEW</div></div>		<div><div></div><div>VIEW B 45.00°</div></div>		<div><div></div><div>EXPLODED VIEW</div></div> <div><div>ASSEMBLY:</div><div><div>1. INSTALL NUTS. SOME APPLICATION OF FORCE MAY BE REQUIRED TO ENSURE THAT THE NUT SEATS PROPERLY DUE TO THE TOLERANCE RIBS INSIDE THE HEXAGONAL RECESS.</div><div>2. APPLY ADHESIVE TO THE OUTER PERIMETER OF COVER AND INTERIOR PERIMETER OF BASE. APPLY ADHESIVE TO 2 x PINS ON COVER.</div><div>3. INSTALL COVER INTO BASE, ENSURING THE COVER SEATS FLUSH WITH THE SURROUNDING FACES OF THE BASE. REMOVE EXCESS ADHESIVE.</div></div></div>									
8		7		6		5		4		3		2		1	
<div>TOLERANCES</div> <div>• Unless otherwise specified (UOS), all dimensions on this assembly drawing are for reference only. The final assembly condition is the result of the accumulated tolerances (stack-up) of the individual manufactured components.</div> <div>• All components shall be manufactured to the dimensions and tolerances specified on their respective detail drawings.</div> <div>• Critical interface or functional dimensions on the assembly are identified with a specific tolerance. 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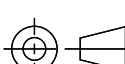




NOTES:

- ENSURE REMOVAL OF ALL SUPPORT MATERIAL.
- CHECK DIMENSIONS MARKED WITH OBOUNDS.

TOLERANCES						DIMENSIONS			PART SUPPLY			DESIGN INTENT			© COPYRIGHT		MANUFACTURING SKILLS QUEENSLAND		monochrome www.monochrome-design.com						
<ul style="list-style-type: none">Tolerances to ISO 2768-mK unless otherwise stated.For dimensions under 0.5mm tolerance is ±0.05.ISO 2768-1: Per below table (class indicated by check mark).ISO 2768-2: K (medium)						<ul style="list-style-type: none">All dimensions are in millimetres unless otherwise indicated.All dimensions to base of draft unless otherwise indicated.Critical inspection dimension: Dimensions with ** may require adjustment during tool trials.First article inspection number: (supplier to provide FAI report detailing each of these dimensions).Other dimensions for reference.			<ul style="list-style-type: none">Printing technology: Fused Deposition Modelling (FDM).Alternatively, Selective Laser Sintering (SLS), Stereolithography (SLA) or Multi Jet Fusion (MJF) may be used where FDM is unavailable.Build Orientation: print part with Z-axis as indicated. This is critical for mechanical strength of the part.Face marked 'A' is a primary cosmetic surface.Orient part to minimise layer lines and support marks on this face.Part to be free of excessive stringing, warping, delamination, and major layer shifts.Remove all support structures. Marks/nibs from support material are permissible on non-critical/internal surfaces only.Layer lines and some "stair-stepping" on angled/curved surfaces are acceptable.Tap holes as specified. Do not print threads.Machine critical bores and faces to specified tolerances after printing.Align Z-seam on sharpest corner (or as indicated) to minimise visual impact.			 		This drawing is supplied in confidence. Do not disclose to any third party without prior written consent from Manufacturing Skills Queensland											
																				LINEAR - PERMISSIBLE DEV. IN MM FOR RANGES IN NOMINAL LENGTHS					
																				CLASS	0.5 - 6mm	6 - 30mm	30 - 120mm	120 - 400mm	Over 400mm
																				<input type="checkbox"/> FINE	±0.05mm	±0.1mm	±0.15mm	±0.2mm	±0.3mm
																				<input checked="" type="checkbox"/> MEDIUM	±0.1mm	±0.1mm	±0.3mm	±0.5mm	±0.8mm
<input type="checkbox"/> COARSE	±0.3mm	±0.5mm	±0.8mm	±1.2mm	±2.0mm																				
ANGULAR - PERMISSIBLE DEV. IN DEGREES & MINUTES FOR RANGES IN NOMINAL LENGTHS						SURFACE TEXTURE KEY (SPI STANDARD)			 		This drawing is supplied in confidence. Do not disclose to any third party without prior written consent from Manufacturing Skills Queensland														
CLASS	0 - 10mm	10 - 50mm	50 - 120mm	120 - 400mm	Over 400mm	Refer to 3D part surface colouring for application																			
<input type="checkbox"/> FINE	±1°	±0°30'	±0°20'	±0°10'	±0°5'	Orange	Natural	Printed Finish																	
<input checked="" type="checkbox"/> MEDIUM	±1°	±0°30'	±0°20'	±0°10'	±0°5'	Green	Sanded	Sanding (from 220 to 400 Grit)																	
<input type="checkbox"/> COARSE	±1°30'	±1°	±0°30'	±0°15'	±0°10'	Blue	Smooth	Vapour Smoothing																	
												PROJECT NAME		Fishing Rod Spike		COLOUR: Black		PART NAME: MONO_038-p201							
												DRAWING TYPE		Part Drawing		FINISH: Matte / Print Finish									
														DATE CREATED		Tuesday, 16 September 2025		MATERIAL: ASA Filament		DESCRIPTION: Rod Guide Top End Cap					
														NOTES:		- Alternative materials: PETG or PLA filament. - Filament colour/finish are suggestions only, and may be customised to student preference.		A3							
														02						Print orientation updated		17/03/2026			
																				01		Initial Release		16/09/2025	
														#		DESCRIPTION		DATE		DO NOT SCALE DRAWING		SCALE:1:2			



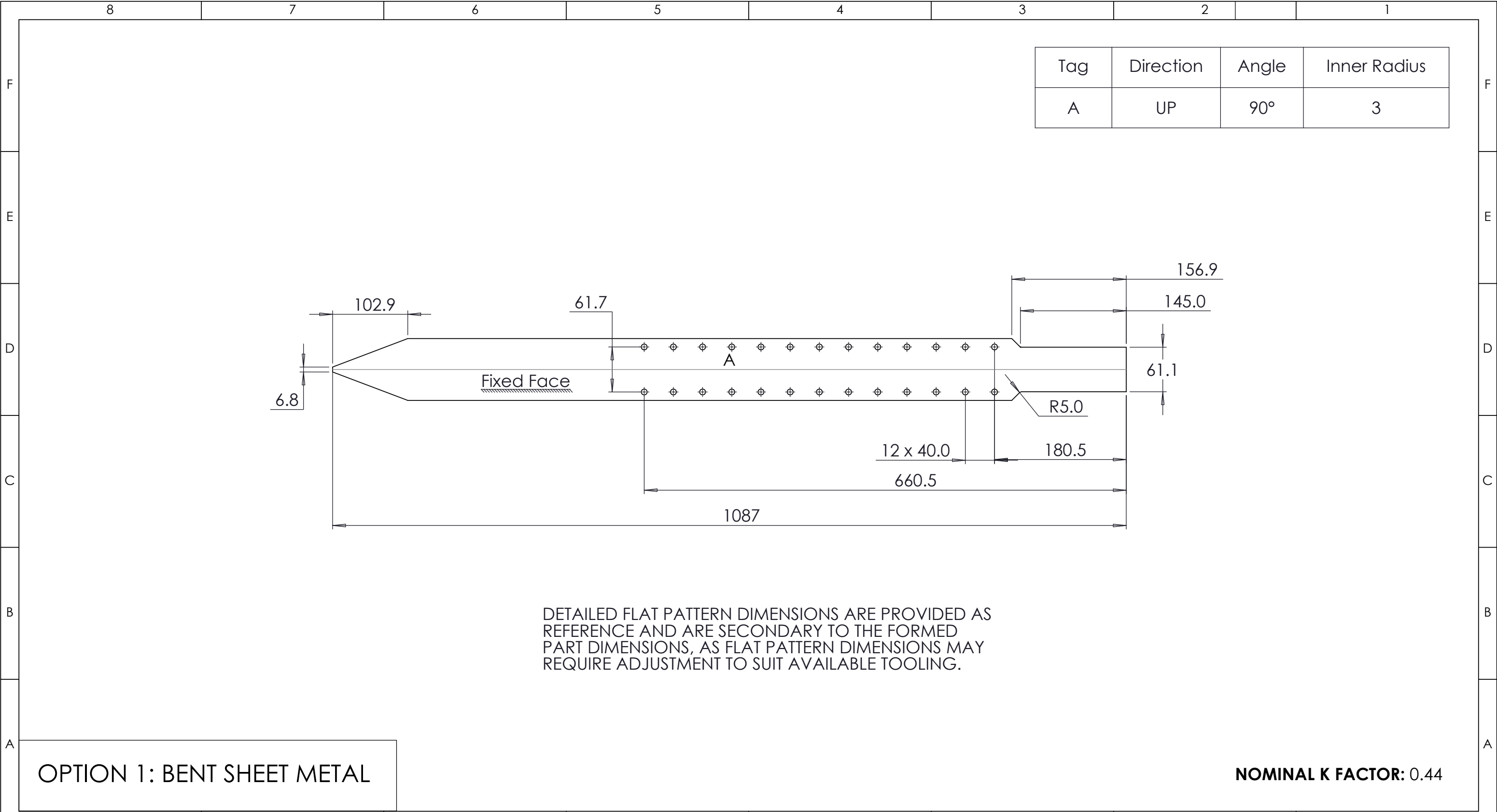
OPTION 1: BENT SHEET METAL

<div>TOLERANCES</div> <ul style="list-style-type: none">• Tolerances to ISO 2768-mK unless otherwise stated.• For dimensions under 0.5mm tolerance is ±0.05.• ISO 2768-1: Per below table (class indicated by check mark).• ISO 2768-2: K (medium)							<div>DIMENSIONS</div> <ul style="list-style-type: none">• All dimensions are in millimetres unless otherwise indicated.• Critical inspection dimension: • Dimensions with ** may require adjustment during tool trials.• First article inspection number:  (supplier to provide a report detailing accuracy to each of these dimensions).• Other dimensions for reference.							<div>PART SUPPLY</div> <ul style="list-style-type: none">• Break all sharp edges R0.2 max.• Cosmetic surfaces to be free of scratches, tool marks, and gouges.• Part to be clean and free of oil, grease, and other foreign contaminants.• Remove dross and tabs from cut edges• Minimise handling marks on all external surfaces.• Minimise tooling/die marks on external bends.• No visible cracking/crazing permitted on bends. <div>PAINING:</div> <ul style="list-style-type: none">• Mask all areas indicated. No paint permitted on masked surfaces.• Finish to be uniform in color, gloss, and texture across all visible surfaces. Painted surface shall be free of runs, sags, orange peel, fisheyes, cratering, blisters, and embedded foreign particles (dust, fibres). <div>INSTALLED HARDWARE (PEMs, standoffs, studs):</div> <ul style="list-style-type: none">• Inserted hardware to be seated flush to 0.2mm proud.• Installed hardware must be perpendicular to the surface within 1°.							<div>DESIGN INTENT</div> <div>Unless otherwise specified, fabricate per this drawing. The 3D model represents the final formed condition for reference.</div> <div></div>			<div>© COPYRIGHT</div> <div>This drawing is supplied in confidence. Do not disclose to any third party without prior written consent from Manufacturing Skills Queensland</div>			<div></div> <div> www.monochrome-design.com</div>	
LINEAR - PERMISSIBLE DEV. IN MM FOR RANGES IN NOMINAL LENGTHS							PART NAME:																					
	CLASS	0.5 - 6mm	6 - 30mm	30 - 120mm	120 - 400mm	Over 400mm	Fishing Rod Spike			COLOUR: Self-Colour																		
	FINE	±0.05mm	±0.1mm	±0.15mm	±0.2mm	±0.3mm	Part Drawing			FINISH: Supplier Finish																		
	MEDIUM	±0.1mm	±0.1mm	±0.3mm	±0.5mm	±0.8mm	DATE CREATED			Monday, 15 September 2025																		
	COARSE	±0.3mm	±0.5mm	±0.8mm	±1.2mm	±2.0mm	NOTES:			- FINAL FORMED DIMENSIONS GOVERN. MANUFACTURER TO DEVELOP FLAT PATTERN TO COMPENSATE FOR THEIR SPECIFIC TOOLING AND PROCESS.																		
ANGULAR - PERMISSIBLE DEV. IN DEGREES & MINUTES FOR RANGES IN NOMINAL LENGTHS							SURFACE TEXTURE KEY (RA STANDARD)																					
	CLASS	0 - 10mm	10 - 50mm	50 - 120mm	120 - 400mm	Over 400mm	Refer to 3D part and surface finish sheet for application																					
	FINE	±1°	±0°30'	±0°20'	±0°10'	±0°5'	Orange	Debur	RA 3.2																			
	MEDIUM	±1°	±0°30'	±0°20'	±0°10'	±0°5'	Green	Smooth	RA 1.6																			
	COARSE	±1° 30'	±1°	±0°30'	±0°15'	±0°10'	Blue	Polish	RA 0.9																			
02	Spike gauge + holes upd		17/03/2026																									
01	Initial Release		15/09/2025																									
#	DESCRIPTION		DATE																									

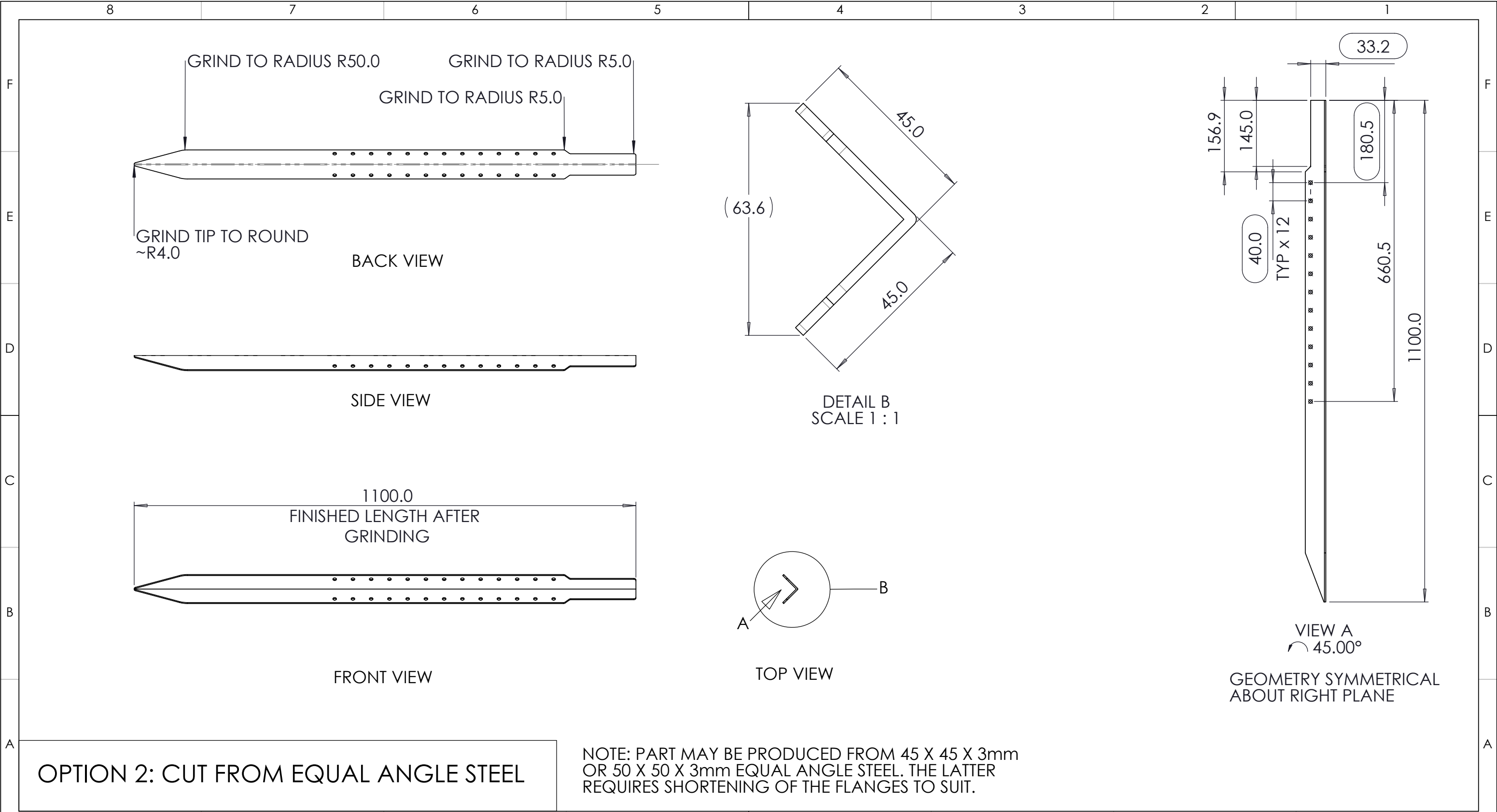
PART NAME:		COLOUR: Self-Colour	
DRAWING TYPE		Part Drawing	
DATE CREATED		Monday, 15 September 2025	
NOTES:		- FINAL FORMED DIMENSIONS GOVERN. MANUFACTURER TO DEVELOP FLAT PATTERN TO COMPENSATE FOR THEIR SPECIFIC TOOLING AND PROCESS.	



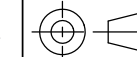


DESCRIPTION:		A3	
Spike		SHEET 1 OF 3	

DO NOT SCALE DRAWING		SCALE:1:8	
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TOLERANCES <ul style="list-style-type: none">Tolerances to ISO 2768-mK unless otherwise stated.For dimensions under 0.5mm tolerance is ±0.05.ISO 2768-1: Per below table (class indicated by check mark).ISO 2768-2: K (medium)							DIMENSIONS <ul style="list-style-type: none">All dimensions are in millimetres unless otherwise indicated.Critical inspection dimension: Dimensions with ** may require adjustment during tool trials.First article inspection number: (supplier to provide a report detailing accuracy to each of these dimensions).Other dimensions for reference.							PART SUPPLY <ul style="list-style-type: none">Break all sharp edges R0.2 max.Cosmetic surfaces to be free of scratches, tool marks, and gouges.Part to be clean and free of oil, grease, and other foreign contaminants.Remove dross and tabs from cut edgesMinimise handling marks on all external surfaces.Minimise tooling/die marks on external bends.No visible cracking/crazing permitted on bends. PAINTING: <ul style="list-style-type: none">Mask all areas indicated. No paint permitted on masked surfaces.Finish to be uniform in color, gloss, and texture across all visible surfaces. Painted surfaces shall be free of runs, sags, orange peel, fisheyes, cratering, blisters, and embedded foreign particles (dust, fibres). INSTALLED HARDWARE (PEMs, standoffs, studs): <ul style="list-style-type: none">Inserted hardware to be seated flush to 0.2mm proud.Installed hardware must be perpendicular to the surface within 1°.							<div><div></div><div></div></div>		DESIGN INTENT <div>Unless otherwise specified, fabricate per this drawing. The 3D model represents the final formed condition for reference.</div>		<div><div></div><div></div></div>		© COPYRIGHT <div>This drawing is supplied in confidence. Do not disclose to any third party without prior written consent from Manufacturing Skills Queensland</div>		<div><div></div><div></div><div>www.monochrome-design.com</div></div>	
LINEAR - PERMISSIBLE DEV. IN MM FOR RANGES IN NOMINAL LENGTHS														<div><div></div><div></div><div></div><div></div><div></div><div></div></div>				PROJECT NAME		Fishing Rod Spike		COLOUR: Self-Colour		PART NAME: MONO_038-p202						
DRAWING TYPE		Part Drawing		FINISH: Supplier Finish																										
<div><div></div><div></div></div>		DATE CREATED		Monday, 15 September 2025		MATERIAL: 3.0mm Galvanised Steel		DESCRIPTION: Spike		A3 SHEET 2 OF 3																				
		NOTES:		- FINAL FORMED DIMENSIONS GOVERN. MANUFACTURER TO DEVELOP FLAT PATTERN TO COMPENSATE FOR THEIR SPECIFIC TOOLING AND PROCESS.																										
		02		Spike gauge + holes upd		17/03/2026																								
		01		Initial Release		15/09/2025																								
#		DESCRIPTION		DATE																										

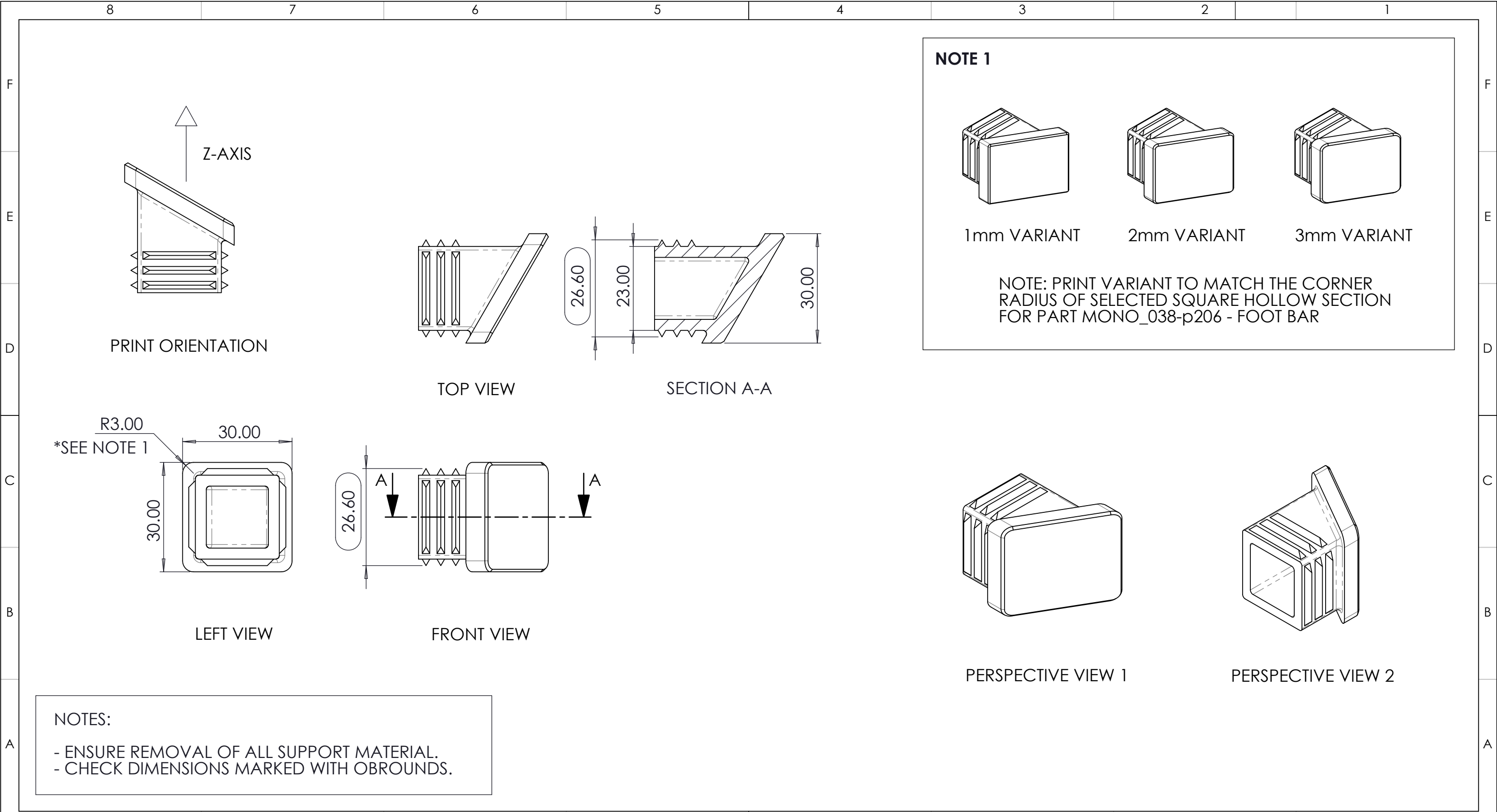







TOLERANCES							DIMENSIONS			PART SUPPLY			DESIGN INTENT		© COPYRIGHT		MANUFACTURING SKILLS QUEENSLAND		monochrome			
• Tolerances to ISO 2768-mK unless otherwise stated. • For dimensions under 0.5mm tolerance is ±0.05. • ISO 2768-1: Per below table (class indicated by check mark). • ISO 2768-2: K (medium)							• All dimensions are in millimetres unless otherwise indicated. • Critical inspection dimension:  • Dimensions with ** may require adjustment during tool trials. • First article inspection number:  (supplier to provide a report detailing accuracy to each of these dimensions). • Other dimensions for reference.			• Break all sharp edges R0.2 max. • Cosmetic surfaces to be free of scratches, tool marks, and gouges. • Part to be clean and free of oil, grease, and other foreign contaminants. • Remove dross and tabs from cut edges • Minimise handling marks on all external surfaces. • Minimise tooling/die marks on external bends. • No visible cracking/crazing permitted on bends.			Unless otherwise specified, fabricate per this drawing. The 3D model represents the final formed condition for reference.				This drawing is supplied in confidence. Do not disclose to any third party without prior written consent from Manufacturing Skills Queensland				 www.monochrome-design.com	
LINEAR - PERMISSIBLE DEV. IN MM FOR RANGES IN NOMINAL LENGTHS							SURFACE TEXTURE KEY (RA STANDARD)			PROJECT NAME		Fishing Rod Spike		COLOUR: Self-Colour		PART NAME:						
CLASS	0.5 - 6mm	6 - 30mm	30 - 120mm	120 - 400mm	Over 400mm	DRAWING TYPE				Part Drawing		FINISH: Supplier Finish		MONO_038-p202								
<input type="checkbox"/> FINE	±0.05mm	±0.1mm	±0.15mm	±0.2mm	±0.3mm	DATE CREATED				Monday, 15 September 2025		MATERIAL: 45 x 45 x 3mm Equal Angle Steel				DESCRIPTION:						
<input checked="" type="checkbox"/> MEDIUM	±0.1mm	±0.1mm	±0.3mm	±0.5mm	±0.8mm	Refer to 3D part and surface finish sheet for application				NOTES: - FINAL FORMED DIMENSIONS GOVERN. MANUFACTURER TO DEVELOP FLAT PATTERN TO COMPENSATE FOR THEIR SPECIFIC TOOLING AND PROCESS.		45 x 45 x 3mm Equal Angle Steel		Spike		A3						
COARSE	±0.3mm	±0.5mm	±0.8mm	±1.2mm	±2.0mm																	
ANGULAR - PERMISSIBLE DEV. IN DEGREES & MINUTES FOR RANGES IN NOMINAL LENGTHS																						
CLASS	0 - 10mm	10 - 50mm	50 - 120mm	120 - 400mm	Over 400mm	Orange		Debur		RA 3.2		DO NOT SCALE DRAWING		SCALE:1:8								
<input type="checkbox"/> FINE	±1°	±0°30'	±0°20'	±0°10'	±0°5'	Green		Smooth		RA 1.6												
<input checked="" type="checkbox"/> MEDIUM	±1°	±0°30'	±0°20'	±0°10'	±0°5'	Blue		Polish		RA 0.9												
COARSE	±1° 30'	±1°	±0°30'	±0°15'	±0°10'																	

PAINTING:
• Mask all areas indicated. No paint permitted on masked surfaces.
• Finish to be uniform in color, gloss, and texture across all visible surfaces. Painted surfaces shall be free of runs, sags, orange peel, fisheyes, cratering, blisters, and embedded foreign particles (dust, fibres).

INSTALLED HARDWARE (PEMs, standoffs, studs):
• Inserted hardware to be seated flush to 0.2mm proud.
• Installed hardware must be perpendicular to the surface within 1°.

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02	Spike gauge + holes upd	17/03/2026	
01	Initial Release	15/09/2025	
#	DESCRIPTION	DATE	



TOLERANCES							DIMENSIONS			PART SUPPLY			DESIGN INTENT		© COPYRIGHT		MANUFACTURING SKILLS QUEENSLAND		monochrome			
• Tolerances to ISO 2768-mK unless otherwise stated. • For dimensions under 0.5mm tolerance is ±0.05. • ISO 2768-1: Per below table (class indicated by check mark). • ISO 2768-2: K (medium)							• All dimensions are in millimetres unless otherwise indicated. • All dimensions to base of draft unless otherwise indicated.			• Printing technology: Fused Deposition Modelling (FDM). • Alternatively, Selective Laser Sintering (SLS), Stereolithography (SLA) or Multi Jet Fusion (MJF) may be used where FDM is unavailable. • Build Orientation: print part with Z-axis as indicated. This is critical for mechanical strength of the part. • Face marked 'A' is a primary cosmetic surface. • Orient part to minimise layer lines and support marks on this face. • Part to be free of excessive stringing, warping, delamination, and major layer shifts. • Remove all support structures. Marks/nibs from support material are permissible on non-critical/internal surfaces only. • Layer lines and some "stair-stepping" on angled/curved surfaces are acceptable. • Tap holes as specified. Do not print threads. • Machine critical bores and faces to specified tolerances after printing. • Align Z-seam on sharpest corner (or as indicated) to minimise visual impact.			Unless otherwise specified, fabricate per 3D model file. Drawing supplied for reference and inspection purposes only.				This drawing is supplied in confidence. Do not disclose to any third party without prior written consent from Manufacturing Skills Queensland				 www.monochrome-design.com	
LINEAR - PERMISSIBLE DEV. IN MM FOR RANGES IN NOMINAL LENGTHS							• Critical inspection dimension:  • Dimensions with ** may require adjustment during tool trials. • First article inspection number:  (supplier to provide FAI report detailing each of these dimensions). • Other dimensions for reference.			PROJECT NAME		Fishing Rod Spike		COLOUR: Black		PART NAME:						
	CLASS	0.5 - 6mm	6 - 30mm	30 - 120mm	120 - 400mm	Over 400mm				DRAWING TYPE		Part Drawing		FINISH: Matte / Print Finish		MONO_038-p203						
<input checked="" type="checkbox"/>	MEDIUM	±0.1mm	±0.1mm	±0.3mm	±0.5mm	±0.8mm				DATE CREATED		Tuesday, 16 September 2025		MATERIAL: ASA Filament		DESCRIPTION:						
	COARSE	±0.3mm	±0.5mm	±0.8mm	±1.2mm	±2.0mm				NOTES:						A3						
ANGULAR - PERMISSIBLE DEV. IN DEGREES & MINUTES FOR RANGES IN NOMINAL LENGTHS							SURFACE TEXTURE KEY (SPI STANDARD)											SHEET 1 OF 1				
	CLASS	0 - 10mm	10 - 50mm	50 - 120mm	120 - 400mm	Over 400mm	Refer to 3D part surface colouring for application															
	FINE	±1°	±0°30'	±0°20'	±0°10'	±0°5'	Pink	Natural	Printed Finish			02 Interference fit reduced		17/03/2026		- Alternative materials: PETG or PLA filament. - Filament colour/finish are suggestions only, and may be customised to student preference.						
<input checked="" type="checkbox"/>	MEDIUM	±1°	±0°30'	±0°20'	±0°10'	±0°5'	Green	Sanded	Sanding (from 220 to 400 Grit)			01 Initial Release		16/09/2025								
	COARSE	±1° 30'	±1°	±0°30'	±0°15'	±0°10'	Blue	Smooth	Vapour Smoothing			# DESCRIPTION		DATE				DO NOT SCALE DRAWING				
																		SCALE:1:1				

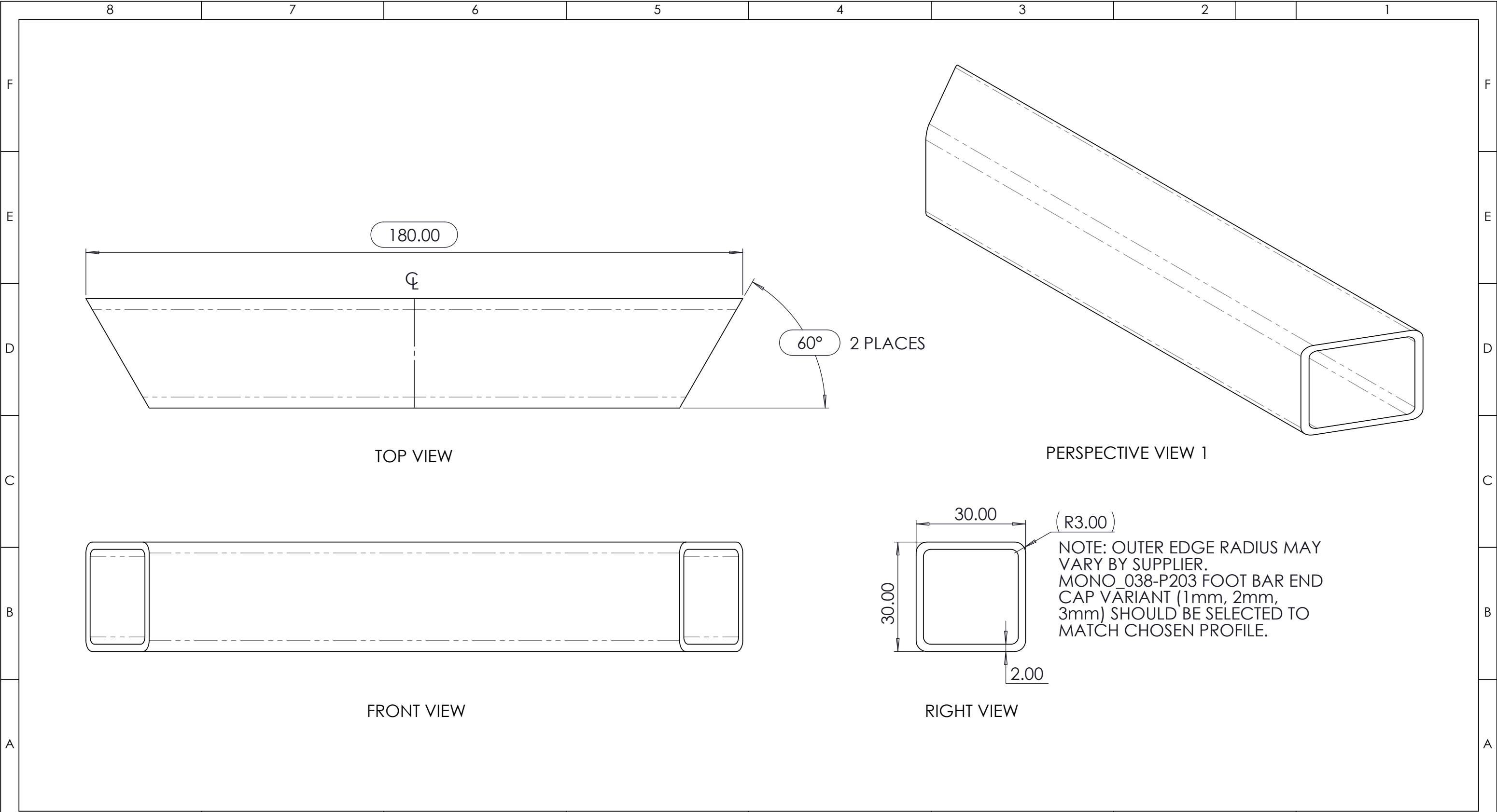




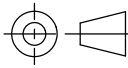


A diagram of a cylindrical container. A vertical arrow points upwards from the center of the top circular surface. The arrow is labeled "Z-AXIS" at its tip.

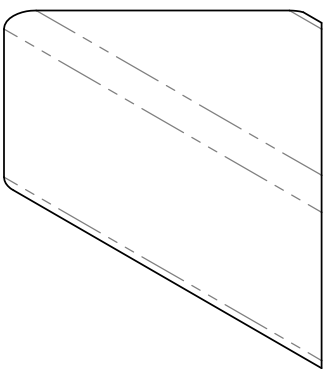
PRINT ORIENTATION

- ENSURE REMOVAL OF ALL SUPPORT MATERIAL.
- CHECK DIMENSIONS MARKED WITH OBOUNDS.

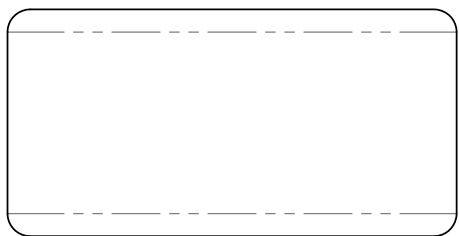
<div>TOLERANCES</div> <ul style="list-style-type: none">• Tolerances to ISO 2768-mK unless otherwise stated.• For dimensions under 0.5mm tolerance is ±0.05.• ISO 2768-1: Per below table (class indicated by check mark).• ISO 2768-2: K (medium)							<div>DIMENSIONS</div> <ul style="list-style-type: none">• All dimensions are in millimetres unless otherwise indicated.• All dimensions to base of draft unless otherwise indicated.• Critical inspection dimension: • Dimensions with ** may require adjustment during tool trials.• First article inspection number: (supplier to provide FAI report detailing each of these dimensions).• Other dimensions for reference.							<div>PART SUPPLY</div> <ul style="list-style-type: none">• Printing technology: Fused Deposition Modelling (FDM).• Alternatively, Selective Laser Sintering (SLS), Stereolithography (SLA) or Multi Jet Fusion (MJF) may be used where FDM is unavailable.• Build Orientation; print part with Z-axis as indicated. This is critical for mechanical strength of the part.• Face marked 'A' is a primary cosmetic surface.• Orient part to minimise layer lines and support marks on this face.• Part to be free of excessive stringing, warping, delamination, and major layer shifts.• Remove all support structures. Marks/nibs from support material are permissible on non-critical/internal surfaces only.• Layer lines and some "stair-stepping" on angled/curved surfaces are acceptable.• Tap holes as specified. Do not print threads.• Machine critical bores and faces to specified tolerances after printing.• Align Z-seam on sharpest corner (or as indicated) to minimise visual impact.							<div>-- --</div> <div>-- --</div> <div>-- --</div> <div>-- --</div> <div>-- --</div> <div>-- --</div> <div>-- --</div> <div>-- --</div> <div>01 Initial Release</div> <div># DESCRIPTION</div>		<div>DESIGN INTENT</div> <div>Unless otherwise specified, fabricate per 3D model file. Drawing supplied for reference and inspection purposes only.</div> <div></div> <div>PROJECT NAME Fishing Rod Spike</div> <div>DRAWING TYPE Part Drawing</div> <div>DATE CREATED Tuesday, 16 September 2025</div> <div>NOTES:<ul style="list-style-type: none">- Alternative materials: PETG or PLA filament.- Filament colour/finish are suggestions only, and may be customised to student preference.</div> <div>DATE</div>		<div>© COPYRIGHT</div> <div>This drawing is supplied in confidence. Do not disclose to any third party without prior written consent from Manufacturing Skills Queensland</div> <div></div> <div>COLOUR: Black</div> <div>FINISH: Matte / Print Finish</div> <div>MATERIAL: ASA Filament</div>		<div> MANUFACTURING SKILLS QUEENSLAND</div> <div>monochrome www.monochrome-design.com</div>		<div>PART NAME:</div> <div>MONO_038-p204</div> <div>DESCRIPTION:</div> <div>Rod Guide Bottom End Cap</div> <div>DO NOT SCALE DRAWING</div>		<div>SCALE:1:2</div>																																																	
<div>LINEAR - PERMISSIBLE DEV. IN MM FOR RANGES IN NOMINAL LENGTHS</div> <table><tr><th></th><th>CLASS</th><th>0.5 - 6mm</th><th>6 - 30mm</th><th>30 - 120mm</th><th>120 - 400mm</th><th>Over 400mm</th></tr><tr><td><input type="checkbox"/></td><td>FINE</td><td>±0.05mm</td><td>±0.1mm</td><td>±0.15mm</td><td>±0.2mm</td><td>±0.3mm</td></tr><tr><td><input checked="" type="checkbox"/></td><td>MEDIUM</td><td>±0.1mm</td><td>±0.1mm</td><td>±0.3mm</td><td>±0.5mm</td><td>±0.8mm</td></tr><tr><td><input type="checkbox"/></td><td>COARSE</td><td>±0.3mm</td><td>±0.5mm</td><td>±0.8mm</td><td>±1.2mm</td><td>±2.0mm</td></tr></table>								CLASS	0.5 - 6mm	6 - 30mm	30 - 120mm	120 - 400mm	Over 400mm	<input type="checkbox"/>	FINE	±0.05mm	±0.1mm	±0.15mm	±0.2mm	±0.3mm	<input checked="" type="checkbox"/>	MEDIUM	±0.1mm	±0.1mm	±0.3mm	±0.5mm	±0.8mm	<input type="checkbox"/>	COARSE	±0.3mm	±0.5mm	±0.8mm	±1.2mm	±2.0mm	<div>SURFACE TEXTURE KEY (SPI STANDARD)</div> <table><tr><th>CLASS</th><th>0 - 10mm</th><th>10 - 50mm</th><th>50 - 120mm</th><th>120 - 400mm</th><th>Over 400mm</th><th></th><th></th><th></th></tr><tr><td><input type="checkbox"/></td><td>FINE</td><td>±1°</td><td>±0°30'</td><td>±0°20'</td><td>±0°10'</td><td>±0°5'</td><td>Pink</td><td>Natural</td><td>Printed Finish</td></tr><tr><td><input checked="" type="checkbox"/></td><td>MEDIUM</td><td>±1°</td><td>±0°30'</td><td>±0°20'</td><td>±0°10'</td><td>±0°5'</td><td>Green</td><td>Sanded</td><td>Sanding (from 220 to 400 Grit)</td></tr><tr><td><input type="checkbox"/></td><td>COARSE</td><td>±1°30'</td><td>±1°</td><td>±0°30'</td><td>±0°15'</td><td>±0°10'</td><td>Blue</td><td>Smooth</td><td>Vapour Smoothing</td></tr></table>							CLASS	0 - 10mm	10 - 50mm	50 - 120mm	120 - 400mm	Over 400mm				<input type="checkbox"/>	FINE	±1°	±0°30'	±0°20'	±0°10'	±0°5'	Pink	Natural	Printed Finish	<input checked="" type="checkbox"/>	MEDIUM	±1°	±0°30'	±0°20'	±0°10'	±0°5'	Green	Sanded	Sanding (from 220 to 400 Grit)	<input type="checkbox"/>	COARSE	±1°30'	±1°	±0°30'	±0°15'	±0°10'	Blue	Smooth	Vapour Smoothing
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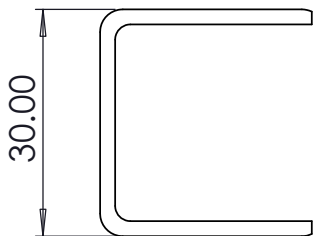
TOLERANCES							DIMENSIONS			PART SUPPLY			DESIGN INTENT		© COPYRIGHT		MANUFACTURING SKILLS QUEENSLAND		monochrome			
• Tolerances to ISO 2768-mK unless otherwise stated. • For dimensions under 0.5mm tolerance is ±0.05. • ISO 2768-1: Per below table (class indicated by check mark). • ISO 2768-2: K (medium)							• All dimensions are in millimetres unless otherwise indicated. • Critical inspection dimension:  • Dimensions with ** may require adjustment during tool trials. • First article inspection number:  (supplier to provide a report detailing accuracy to each of these dimensions). • Other dimensions for reference.			• Break all sharp edges R0.2 max. • Cosmetic surfaces to be free of scratches, tool marks, and gouges. • Part to be clean and free of oil, grease, and other foreign contaminants. • Remove dross and tabs from cut edges • Minimise handling marks on all external surfaces. • Minimise tooling/die marks on external bends. • No visible cracking/crazing permitted on bends.			Unless otherwise specified, fabricate per this drawing. The 3D model represents the final formed condition for reference.				This drawing is supplied in confidence. Do not disclose to any third party without prior written consent from Manufacturing Skills Queensland					
LINEAR - PERMISSIBLE DEV. IN MM FOR RANGES IN NOMINAL LENGTHS							SURFACE TEXTURE KEY (RA STANDARD)			PROJECT NAME		COLOUR:		PART NAME: MONO_038-p206								
	CLASS	0.5 - 6mm	6 - 30mm	30 - 120mm	120 - 400mm	Over 400mm				Fishing Rod Spike		Self-Colour										
	FINE	±0.05mm	±0.1mm	±0.15mm	±0.2mm	±0.3mm				DRAWING TYPE		FINISH:		DESCRIPTION: Foot Bar								
<input checked="" type="checkbox"/>	MEDIUM	±0.1mm	±0.1mm	±0.3mm	±0.5mm	±0.8mm				Part Drawing		Supplier Finish										
	COARSE	±0.3mm	±0.5mm	±0.8mm	±1.2mm	±2.0mm	Refer to 3D part and surface finish sheet for application			DATE CREATED		MATERIAL:		A3								
ANGULAR - PERMISSIBLE DEV. IN DEGREES & MINUTES FOR RANGES IN NOMINAL LENGTHS										Monday, 15 September 2025		Steel SHS										
	CLASS	0 - 10mm	10 - 50mm	50 - 120mm	120 - 400mm	Over 400mm				NOTES: - FINAL FORMED DIMENSIONS GOVERN. MANUFACTURER TO DEVELOP FLAT PATTERN TO COMPENSATE FOR THEIR SPECIFIC TOOLING AND PROCESS.		DO NOT SCALE DRAWING		SCALE:1:1								
	FINE	±1°	±0°30'	±0°20'	±0°10'	±0°5'	Orange	Deburr	RA 3.2													
<input checked="" type="checkbox"/>	MEDIUM	±1°	±0°30'	±0°20'	±0°10'	±0°5'	Green	Smooth	RA 1.6													
	COARSE	±1° 30'	±1°	±0°30'	±0°15'	±0°10'	Blue	Polish	RA 0.9													
#	DESCRIPTION										DATE											
--																						
--																						
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--																						
--																						
--																						
02	Global position change										17/03/2026											
01	Initial Release										15/09/2025											



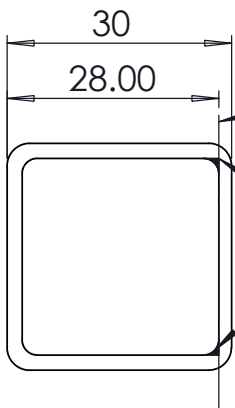
PERSPECTIVE VIEW 1



FRONT VIEW



RIGHT VIEW







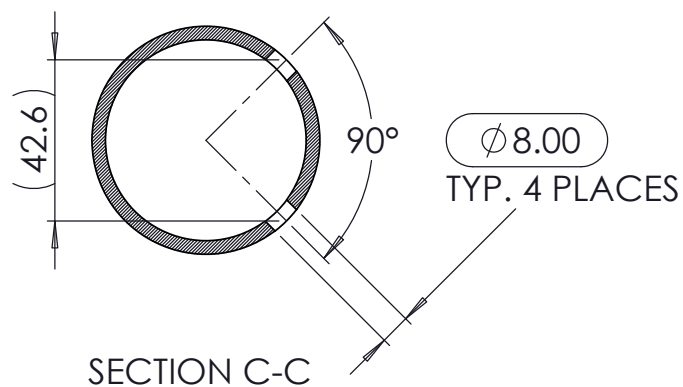
RIGHT VIEW
BEFORE CUTTING

CUTTING LINE

DEPENDING ON THE SELECTED MATERIAL PROFILE, THE INTERNAL FILLETS MAY REQUIRE REMOVAL VIA GRINDING FOLLOWING CUTTING

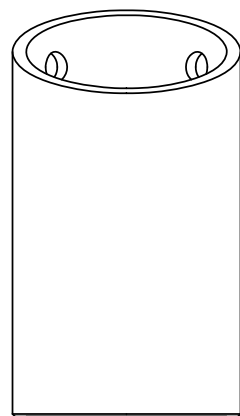
OPTION 2: CUT SQUARE HOLLOW SECTION

<div>TOLERANCES</div> <ul style="list-style-type: none">• Tolerances to ISO 2768-mK unless otherwise stated.• For dimensions under 0.5mm tolerance is ±0.05.• ISO 2768-1: Per below table (class indicated by check mark).• ISO 2768-2: K (medium)							<div>DIMENSIONS</div> <ul style="list-style-type: none">• All dimensions are in millimetres unless otherwise indicated.• Critical inspection dimension: • Dimensions with ** may require adjustment during tool trials.• First article inspection number:  (supplier to provide a report detailing accuracy to each of these dimensions).• Other dimensions for reference.							<div>PART SUPPLY</div> <ul style="list-style-type: none">• Break all sharp edges R0.2 max.• Cosmetic surfaces to be free of scratches, tool marks, and gouges.• Part to be clean and free of oil, grease, and other foreign contaminants.• Remove dross and tabs from cut edges• Minimise handling marks on all external surfaces.• Minimise tooling/die marks on external bends.• No visible cracking/crazing permitted on bends. <div>PAINTING:</div> <ul style="list-style-type: none">• Mask all areas indicated. No paint permitted on masked surfaces.• Finish to be uniform in color, gloss, and texture across all visible surfaces. Painted surfaces shall be free of runs, sags, orange peel, fisheyes, cratering, blisters, and embedded foreign particles (dust, fibres). <div>INSTALLED HARDWARE (PEMs, standoffs, studs):</div> <ul style="list-style-type: none">• Inserted hardware to be seated flush to 0.2mm proud.• Installed hardware must be perpendicular to the surface within 1°.							<div>--</div> <div>--</div> <div>--</div> <div>--</div> <div>--</div> <div>--</div> <div>--</div> <div>--</div> <div>--</div> <div>02</div> <div>01</div> <div>#</div> <div>Width reduced, pos change</div> <div>Initial Release</div> <div>DESCRIPTION</div> <div>17/03/2026</div> <div>15/09/2025</div> <div>DATE</div>			<div>DESIGN INTENT</div> <div>Unless otherwise specified, fabricate per this drawing. The 3D model represents the final formed condition for reference.</div> <div>PROJECT NAME</div> <div>Fishing Rod Spike</div> <div>DRAWING TYPE</div> <div>Part Drawing</div> <div>DATE CREATED</div> <div>Monday, 15 September 2025</div> <div>NOTES:</div>		<div>© COPYRIGHT</div> <div>This drawing is supplied in confidence. Do not disclose to any third party without prior written consent from Manufacturing Skills Queensland</div> <div>COLOUR:</div> <div>Self-Colour</div> <div>FINISH:</div> <div>Self Finish</div> <div>MATERIAL:</div> <div>30 x 30 x 2mm SHS</div>		<div></div> <div>MANUFACTURING SKILLS QUEENSLAND</div>		<div></div> <div>monochrome</div> <div>www.monochrome-design.com</div>																																						
<div>LINEAR - PERMISSIBLE DEV. IN MM FOR RANGES IN NOMINAL LENGTHS</div>							<div>PART NAME:</div> <div>MONO_038-p209</div>							<div>DESCRIPTION:</div> <div>Foot Bar Support</div>		<div>SCALE:1:1</div>																																																				
<table><tr><td></td><td>CLASS</td><td>0.5 - 6mm</td><td>6 - 30mm</td><td>30 - 120mm</td><td>120 - 400mm</td><td>Over 400mm</td></tr><tr><td></td><td>FINE</td><td>±0.05mm</td><td>±0.1mm</td><td>±0.15mm</td><td>±0.2mm</td><td>±0.3mm</td></tr><tr><td><input checked="" type="checkbox"/></td><td>MEDIUM</td><td>±0.1mm</td><td>±0.1mm</td><td>±0.3mm</td><td>±0.5mm</td><td>±0.8mm</td></tr><tr><td></td><td>COARSE</td><td>±0.3mm</td><td>±0.5mm</td><td>±0.8mm</td><td>±1.2mm</td><td>±2.0mm</td></tr></table>								CLASS	0.5 - 6mm	6 - 30mm	30 - 120mm	120 - 400mm	Over 400mm		FINE	±0.05mm	±0.1mm	±0.15mm	±0.2mm	±0.3mm	<input checked="" type="checkbox"/>	MEDIUM	±0.1mm	±0.1mm	±0.3mm	±0.5mm	±0.8mm		COARSE	±0.3mm	±0.5mm	±0.8mm	±1.2mm	±2.0mm	<div>ANGULAR - PERMISSIBLE DEV. IN DEGREES & MINUTES FOR RANGES IN NOMINAL LENGTHS</div>							<div>SURFACE TEXTURE KEY (RA STANDARD)</div> <div>Refer to 3D part and surface finish sheet for application</div>		<div>A3</div> <div>SHEET 2 OF 2</div>																								
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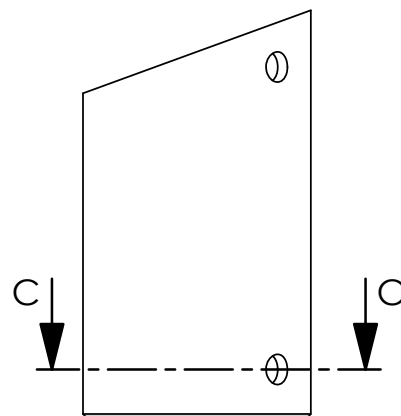


TOP VIEW

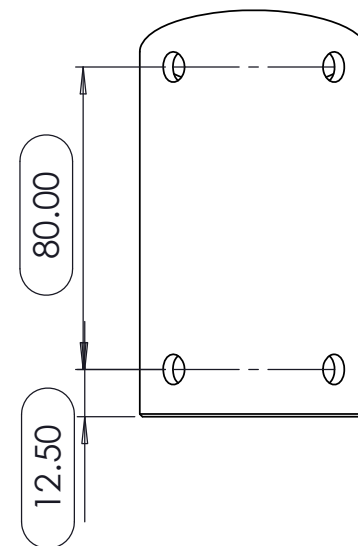
SECTION C-C



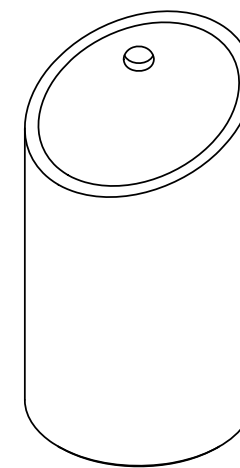
FRONT VIEW





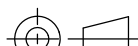


RIGHT VIEW

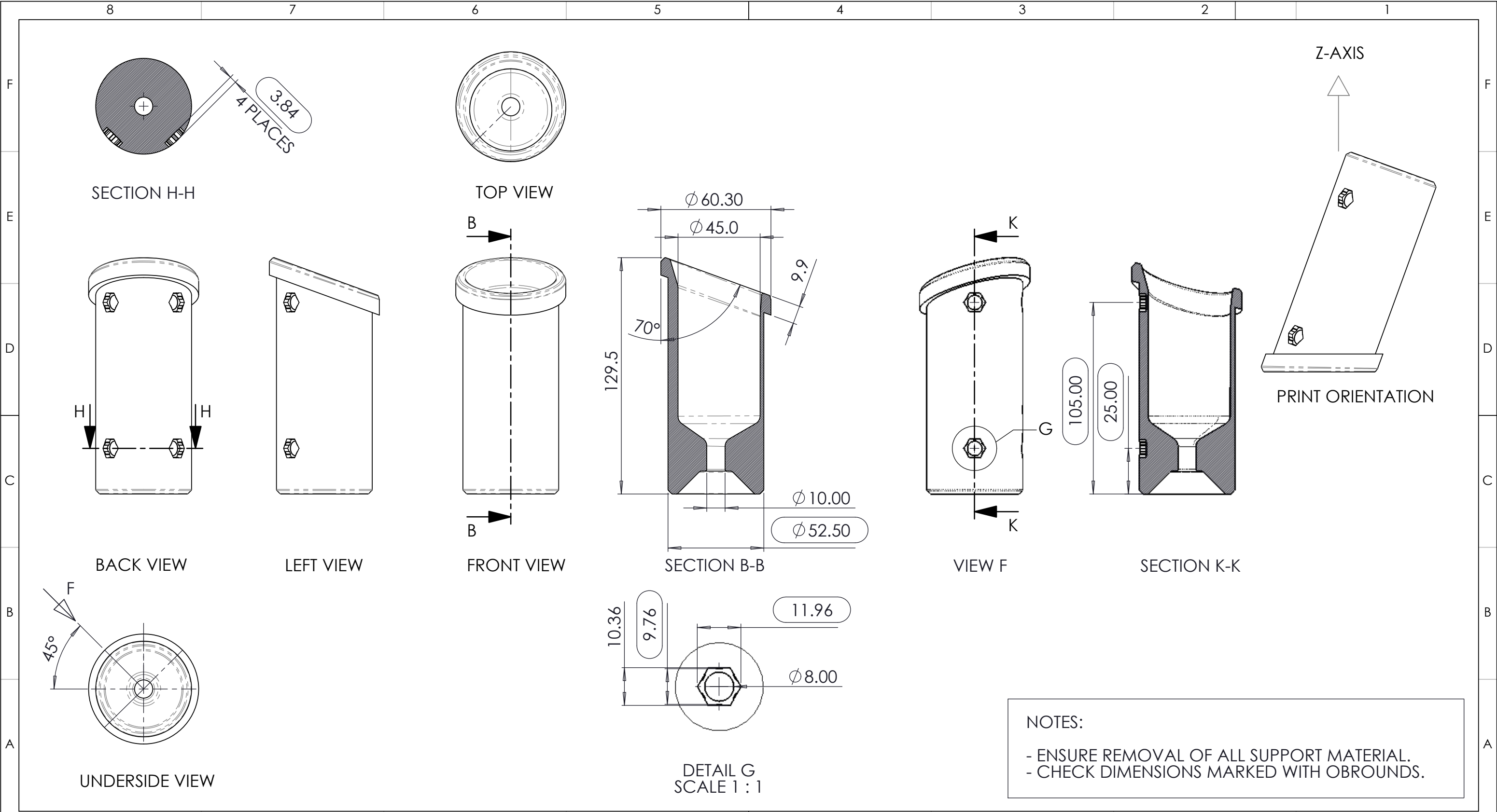


BACK VIEW





PERSPECTIVE VIEW 1

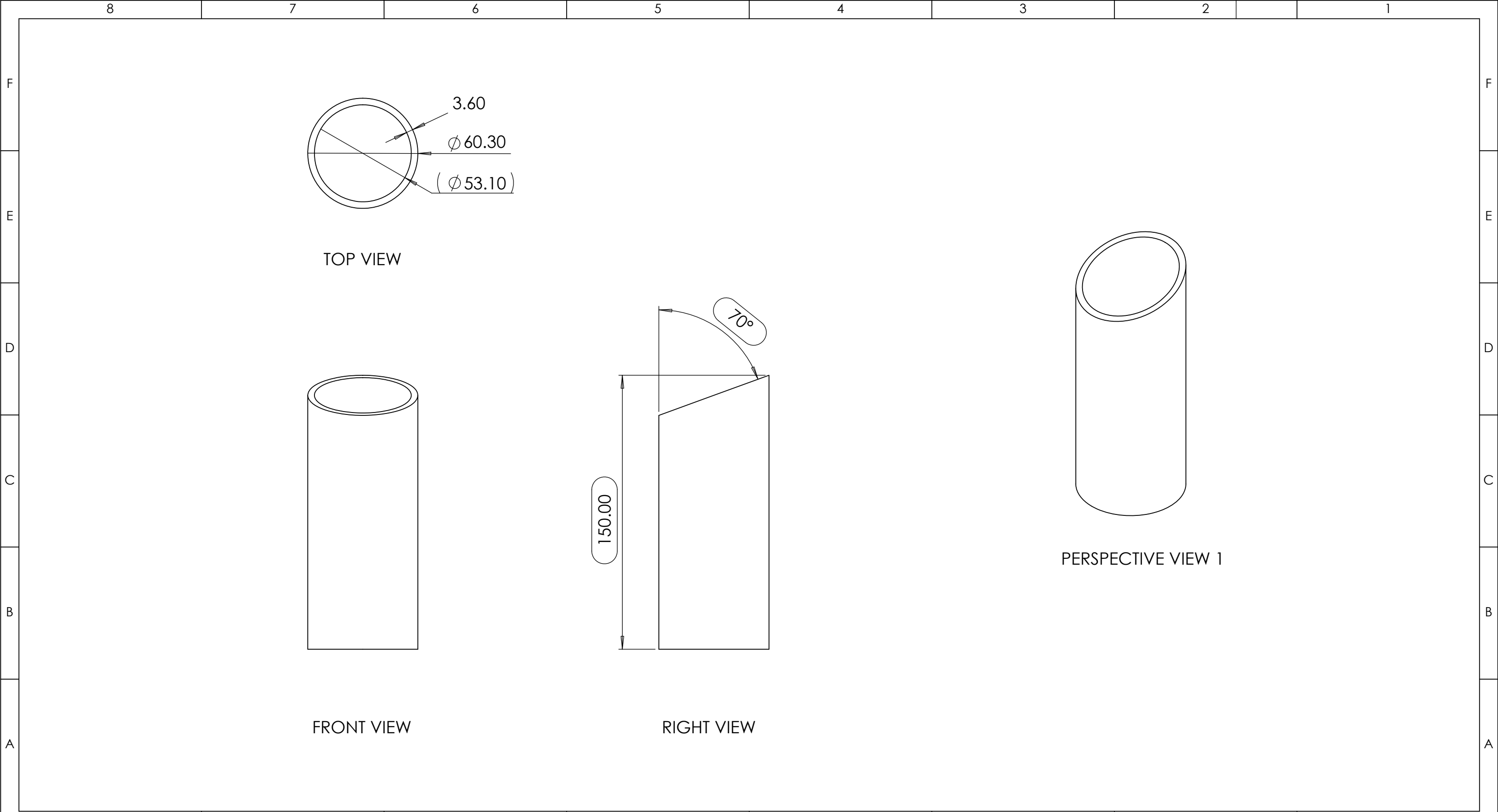
<div>TOLERANCES</div> <ul style="list-style-type: none">Tolerances to ISO 2768-mK unless otherwise stated.For dimensions under 0.5mm tolerance is ±0.05.ISO 2768-1: Per below table (class indicated by check mark).ISO 2768-2: k (medium)							<div>DIMENSIONS</div> <ul style="list-style-type: none">All dimensions are in millimetres unless otherwise indicated.Critical inspection dimension: Dimensions with ** may require adjustment during tool trials.First article inspection number:  (supplier to provide a report detailing accuracy to each of these dimensions).Other dimensions for reference.							<div>PART SUPPLY</div> <ul style="list-style-type: none">Break all sharp edges R0.2 max.Cosmetic surfaces to be free of scratches, tool marks, and gouges.Part to be clean and free of oil, grease, and other foreign contaminants.Remove dross and tabs from cut edgesMinimise handling marks on all external surfaces.Minimise tooling/die marks on external bends.No visible cracking/crazing permitted on bends.							<div>DESIGN INTENT</div> <div>Unless otherwise specified, fabricate per this drawing. The 3D model represents the final formed condition for reference.</div> <div></div>			<div>© COPYRIGHT</div> <div>This drawing is supplied in confidence. Do not disclose to any third party without prior written consent from Manufacturing Skills Queensland</div>			<div><div>MANUFACTURING SKILLS QUEENSLAND</div></div> <div><div>www.monochrome-design.com</div></div>	
<div>LINEAR - PERMISSIBLE DEV. IN MM FOR RANGES IN NOMINAL LENGTHS</div>																												
	CLASS	0.5 - 6mm	6 - 30mm	30 - 120mm	120 - 400mm	Over 400mm																						
	FINE	±0.05mm	±0.1mm	±0.15mm	±0.2mm	±0.3mm																						
<input checked="" type="checkbox"/>	MEDIUM	±0.1mm	±0.1mm	±0.3mm	±0.5mm	±0.8mm																						
	COARSE	±0.3mm	±0.5mm	±0.8mm	±1.2mm	±2.0mm																						
<div>ANGULAR - PERMISSIBLE DEV. IN DEGREES & MINUTES FOR RANGES IN NOMINAL LENGTHS</div>							<div>SURFACE TEXTURE KEY (RA STANDARD)</div>																					
	CLASS	0 - 10mm	10 - 50mm	50 - 120mm	120 - 400mm	Over 400mm	Refer to 3D part and surface finish sheet for application																					
	FINE	±1°	±0°30'	±0°20'	±0°10'	±0°5'	Orange	Deburr	RA 3.2																			
<input checked="" type="checkbox"/>	MEDIUM	±1°	±0°30'	±0°20'	±0°10'	±0°5'	Green	Smooth	RA 1.6																			
	COARSE	±1° 30'	±1°	±0°30'	±0°15'	±0°10'	Blue	Polish	RA 0.9																			
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02	Hole OD Increased	17/03/2026		- STEEL TUBE, OD 60.3mm X 3.6mm, 50NB MGPE																								
01	Initial Release	15/09/2025																										
#	DESCRIPTION	DATE																										



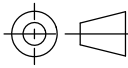




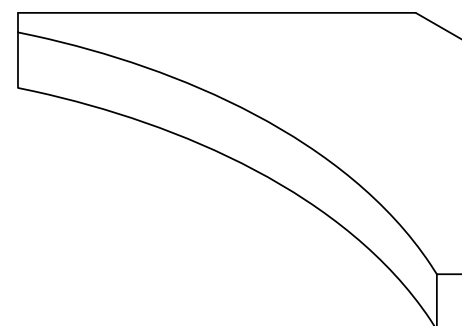
NOTES:

- ENSURE REMOVAL OF ALL SUPPORT MATERIAL.
- CHECK DIMENSIONS MARKED WITH OBOUNDS.

TOLERANCES							DIMENSIONS			PART SUPPLY			DESIGN INTENT		© COPYRIGHT		MANUFACTURING SKILLS QUEENSLAND		monochrome	
• Tolerances to ISO 2768-mK unless otherwise stated. • For dimensions under 0.5mm tolerance is ±0.05. • ISO 2768-1: Per below table (class indicated by check mark). • ISO 2768-2: K (medium)							• All dimensions are in millimetres unless otherwise indicated. • All dimensions to base of draft unless otherwise indicated.			• Printing technology: Fused Deposition Modelling (FDM). • Alternatively, Selective Laser Sintering (SLS), Stereolithography (SLA) or Multi Jet Fusion (MJF) may be used where FDM is unavailable. • Build Orientation: print part with Z-axis as indicated. This is critical for mechanical strength of the part. • Face marked 'A' is a primary cosmetic surface. • Orient part to minimise layer lines and support marks on this face. • Part to be free of excessive stringing, warping, delamination, and major layer shifts. • Remove all support structures. Marks/nibs from support material are permissible on non-critical/internal surfaces only. • Layer lines and some "stair-stepping" on angled/curved surfaces are acceptable. • Tap holes as specified. Do not print threads. • Machine critical bores and faces to specified tolerances after printing. • Align Z-seam on sharpest corner (or as indicated) to minimise visual impact.			Unless otherwise specified, fabricate per 3D model file. Drawing supplied for reference and inspection purposes only.		This drawing is supplied in confidence. Do not disclose to any third party without prior written consent from Manufacturing Skills Queensland		MANUFACTURING SKILLS QUEENSLAND		monochrome www.monochrome-design.com	
LINEAR - PERMISSIBLE DEV. IN MM FOR RANGES IN NOMINAL LENGTHS							• Critical inspection dimension:  • Dimensions with ** may require adjustment during tool trials. • First article inspection number:  (supplier to provide FAI report detailing each of these dimensions). • Other dimensions for reference.			PROJECT NAME		Fishing Rod Spike		COLOUR: Black		PART NAME: MONO_038-p217				
CLASS		0.5 - 6mm		6 - 30mm		30 - 120mm				120 - 400mm		Over 400mm		DRAWING TYPE		Part Drawing		FINISH: Matte / Print Finish		
FINE		±0.05mm		±0.1mm		±0.15mm				±0.2mm		±0.3mm		DATE CREATED		Tuesday, 16 September 2025		MATERIAL: ASA Filament		
MEDIUM		±0.1mm		±0.1mm		±0.3mm				±0.5mm		±0.8mm		NOTES:		- Alternative materials: PETG or PLA filament. - Filament colour/finish are suggestions only, and may be customised to student preference.		DESCRIPTION: Rod Rest Interior Lining		
COARSE		±0.3mm		±0.5mm		±0.8mm		±1.2mm		±2.0mm		02 Print orientation updated		17/03/2026				A3		
ANGULAR - PERMISSIBLE DEV. IN DEGREES & MINUTES FOR RANGES IN NOMINAL LENGTHS							SURFACE TEXTURE KEY (SPI STANDARD)											SHEET 1 OF 1		
CLASS		0 - 10mm		10 - 50mm		50 - 120mm		120 - 400mm		Over 400mm		Refer to 3D part surface colouring for application								
FINE		±1°		±0°30'		±0°20'		±0°10'		±0°5'		Pink		Natural		Printed Finish				
MEDIUM		±1°		±0°30'		±0°20'		±0°10'		±0°5'		Green		Sanded		Sanding (from 220 to 400 Grit)				
COARSE		±1° 30'		±1°		±0°30'		±0°15'		±0°10'		Blue		Smooth		Vapour Smoothing		DO NOT SCALE DRAWING		
																		SCALE:1:2		





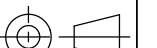


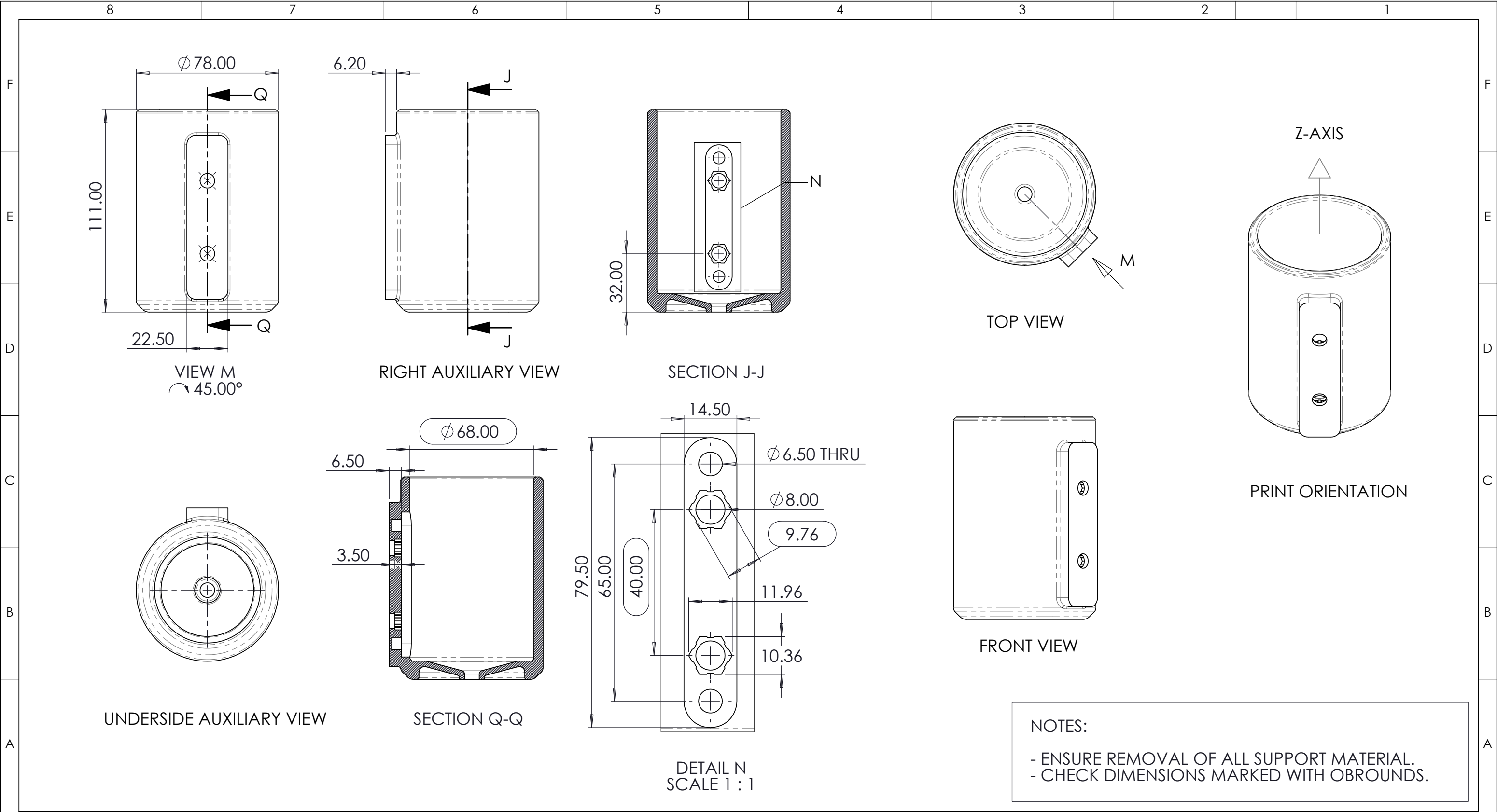
TOLERANCES							DIMENSIONS			PART SUPPLY			DESIGN INTENT		© COPYRIGHT		MANUFACTURING SKILLS QUEENSLAND		monochrome			
• Tolerances to ISO 2768-mK unless otherwise stated. • For dimensions under 0.5mm tolerance is ±0.05. • ISO 2768-1: Per below table (class indicated by check mark). • ISO 2768-2: K (medium)							• All dimensions are in millimetres unless otherwise indicated. • Critical inspection dimension:  • Dimensions with ** may require adjustment during tool trials. • First article inspection number:  (supplier to provide a report detailing accuracy to each of these dimensions). • Other dimensions for reference.			• Break all sharp edges R0.2 max. • Cosmetic surfaces to be free of scratches, tool marks, and gouges. • Part to be clean and free of oil, grease, and other foreign contaminants. • Remove dross and tabs from cut edges • Minimise handling marks on all external surfaces. • Minimise tooling/die marks on external bends. • No visible cracking/crazing permitted on bends.			Unless otherwise specified, fabricate per this drawing. The 3D model represents the final formed condition for reference.				This drawing is supplied in confidence. Do not disclose to any third party without prior written consent from Manufacturing Skills Queensland					
LINEAR - PERMISSIBLE DEV. IN MM FOR RANGES IN NOMINAL LENGTHS							SURFACE TEXTURE KEY (RA STANDARD)			PROJECT NAME		COLOUR:		PART NAME: MONO_038-p221								
	CLASS	0.5 - 6mm	6 - 30mm	30 - 120mm	120 - 400mm	Over 400mm				Fishing Rod Spike		Self-Colour										
<input type="checkbox"/>	FINE	±0.05mm	±0.1mm	±0.15mm	±0.2mm	±0.3mm				DRAWING TYPE		FINISH:										
<input checked="" type="checkbox"/>	MEDIUM	±0.1mm	±0.1mm	±0.3mm	±0.5mm	±0.8mm				Part Drawing		Supplier Finish										
<input type="checkbox"/>	COARSE	±0.3mm	±0.5mm	±0.8mm	±1.2mm	±2.0mm				DATE CREATED		MATERIAL:										
ANGULAR - PERMISSIBLE DEV. IN DEGREES & MINUTES FOR RANGES IN NOMINAL LENGTHS							Refer to 3D part and surface finish sheet for application			Monday, 15 September 2025		Steel Tube		DESCRIPTION: Rod Guide								
	CLASS	0 - 10mm	10 - 50mm	50 - 120mm	120 - 400mm	Over 400mm	NOTES:		- STEEL TUBE, OD 60.3mm X 3.6mm, 50NB MGPE													
<input type="checkbox"/>	FINE	±1°	±0°30'	±0°20'	±0°10'	±0°5'	01 Initial Release															
<input checked="" type="checkbox"/>	MEDIUM	±1°	±0°30'	±0°20'	±0°10'	±0°5'	15/09/2025															
<input type="checkbox"/>	COARSE	±1° 30'	±1°	±0°30'	±0°15'	±0°10'	# DESCRIPTION		DATE													
							INSTALLED HARDWARE (PEMs, standoffs, studs): • Inserted hardware to be seated flush to 0.2mm proud. • Installed hardware must be perpendicular to the surface within 1°.							DO NOT SCALE DRAWING								
														SCALE:1:2								



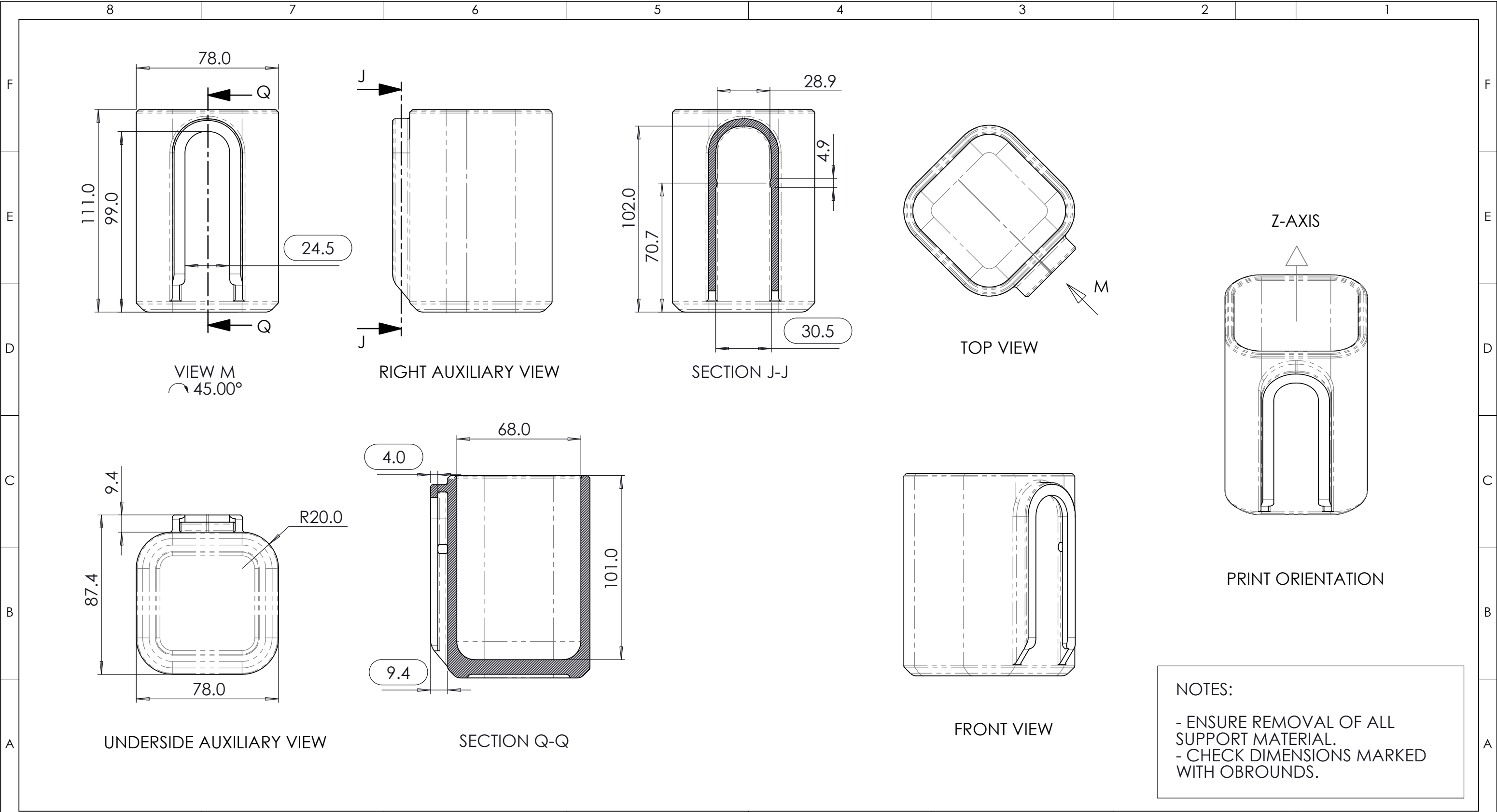
PERSPECTIVE VIEW 1



TOLERANCES							DIMENSIONS			PART SUPPLY			--		--		DESIGN INTENT		© COPYRIGHT		<div>MANUFACTURING SKILLS QUEENSLAND</div> <div>This drawing is supplied in confidence. Do not disclose to any third party without prior written consent from Manufacturing Skills Queensland</div>		<div>www.monochrome-design.com</div>	
• Tolerances to ISO 2768-mK unless otherwise stated. • For dimensions under 0.5mm tolerance is ±0.05. • ISO 2768-1: Per below table (class indicated by check mark). • ISO 2768-2: K (medium)							• All dimensions are in millimetres unless otherwise indicated. • Critical inspection dimension:  • Dimensions with ** may require adjustment during tool trials. • First article inspection number:  (supplier to provide a report detailing accuracy to each of these dimensions). • Other dimensions for reference.			• Break all sharp edges R0.2 max. • Cosmetic surfaces to be free of scratches, tool marks, and gouges. • Part to be clean and free of oil, grease, and other foreign contaminants. • Remove dross and tabs from cut edges • Minimise handling marks on all external surfaces. • Minimise tooling/die marks on external bends. • No visible cracking/crazing permitted on bends.			--		--		Unless otherwise specified, fabricate per this drawing. The 3D model represents the final formed condition for reference.							
LINEAR - PERMISSIBLE DEV. IN MM FOR RANGES IN NOMINAL LENGTHS													PROJECT NAME		Fishing Rod Spike		COLOUR: Self-Colour		PART NAME:					
	CLASS	0.5 - 6mm	6 - 30mm	30 - 120mm	120 - 400mm	Over 400mm							DRAWING TYPE		Part Drawing		FINISH: Self Finish		MONO_038-p222					
<input type="checkbox"/>	FINE	±0.05mm	±0.1mm	±0.15mm	±0.2mm	±0.3mm							DATE CREATED		Monday, 15 September 2025		MATERIAL: 30 x 30 x 2mm SHS							
<input checked="" type="checkbox"/>	MEDIUM	±0.1mm	±0.1mm	±0.3mm	±0.5mm	±0.8mm							NOTES:											
	COARSE	±0.3mm	±0.5mm	±0.8mm	±1.2mm	±2.0mm							01		Initial Release		15/09/2025		DESCRIPTION:					
ANGULAR - PERMISSIBLE DEV. IN DEGREES & MINUTES FOR RANGES IN NOMINAL LENGTHS							SURFACE TEXTURE KEY (RA STANDARD)						--		--						Rod Guide Support			
	CLASS	0 - 10mm	10 - 50mm	50 - 120mm	120 - 400mm	Over 400mm	Refer to 3D part and surface finish sheet for application						--		--				A3					
	FINE	±1°	±0°30'	±0°20'	±0°10'	±0°5'	Orange	Deburr	RA 3.2				--		--									
<input checked="" type="checkbox"/>	MEDIUM	±1°	±0°30'	±0°20'	±0°10'	±0°5'	Green	Smooth	RA 1.6				--		--									
	COARSE	±1°30'	±1°	±0°30'	±0°15'	±0°10'	Blue	Polish	RA 0.9				#		DESCRIPTION		DATE							
										INSTALLED HARDWARE (PEMs, standoffs, studs): • Inserted hardware to be seated flush to 0.2mm proud. • Installed hardware must be perpendicular to the surface within 1°.											DO NOT SCALE DRAWING		SCALE:2:1	








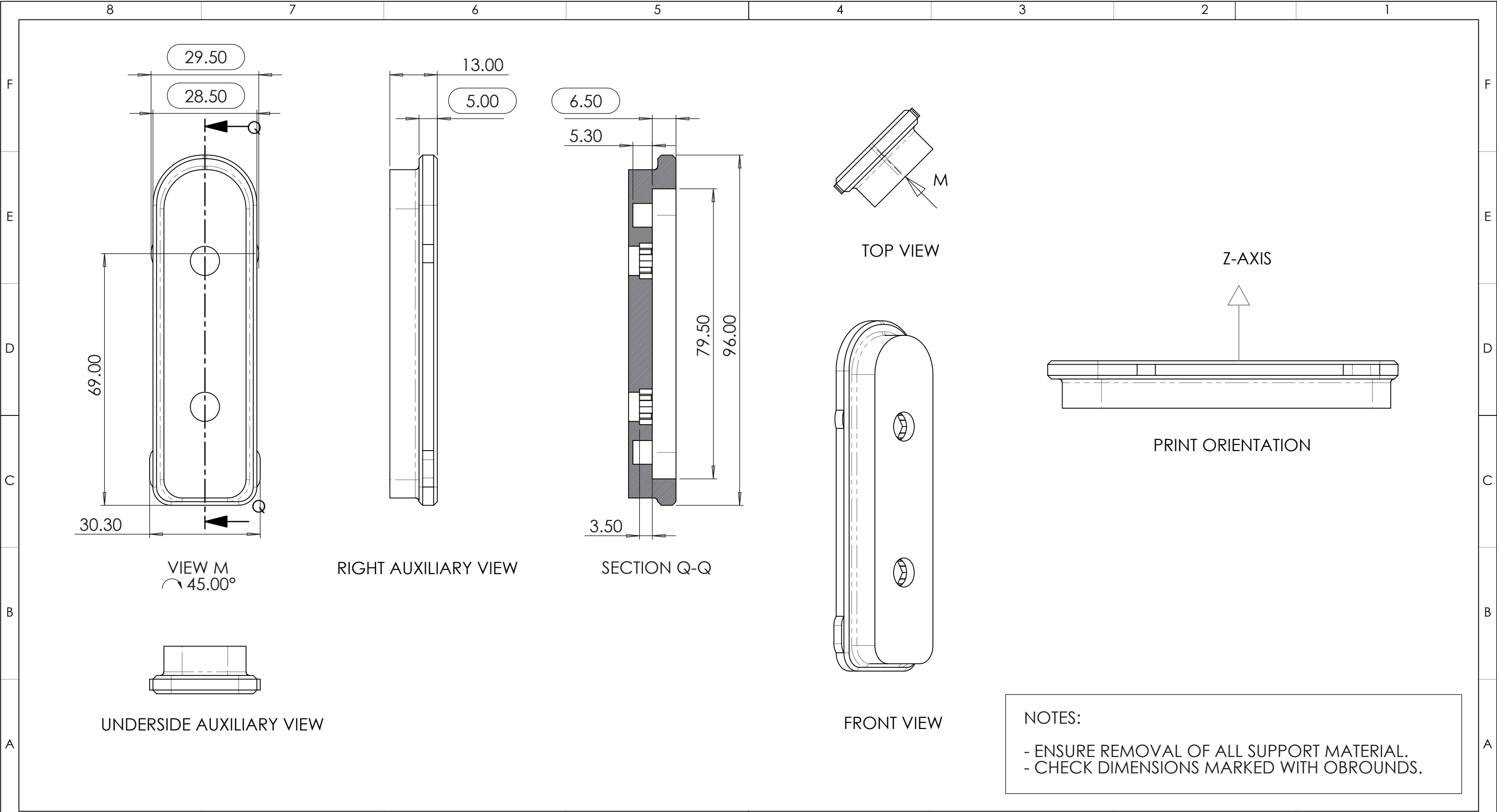
TOLERANCES							DIMENSIONS			PART SUPPLY			DESIGN INTENT			© COPYRIGHT									
<ul style="list-style-type: none">Tolerances to ISO 2768-mK unless otherwise stated.For dimensions under 0.5mm tolerance is ±0.05.ISO 2768-1: Per below table (class indicated by check mark).ISO 2768-2: K (medium)							<ul style="list-style-type: none">All dimensions are in millimetres unless otherwise indicated.All dimensions to base of draft unless otherwise indicated.Critical inspection dimension: Dimensions with ** may require adjustment during tool trials.First article inspection number: (supplier to provide FAI report detailing each of these dimensions).Other dimensions for reference.			<ul style="list-style-type: none">Printing technology: Fused Deposition Modelling (FDM).Alternatively, Selective Laser Sintering (SLS), Stereolithography (SLA) or Multi Jet Fusion (MJF) may be used where FDM is unavailable.Build Orientation: print part with Z-axis as indicated. This is critical for mechanical strength of the part.Face marked 'A' is a primary cosmetic surface.Orient part to minimise layer lines and support marks on this face.Part to be free of excessive stringing, warping, delamination, and major layer shifts.Remove all support structures. Marks/nibs from support material are permissible on non-critical/internal surfaces only.Layer lines and some "stair-stepping" on angled/curved surfaces are acceptable.Tap holes as specified. Do not print threads.Machine critical bores and faces to specified tolerances after printing.Align Z-seam on sharpest corner (or as indicated) to minimise visual impact.			Unless otherwise specified, fabricate per 3D model file. Drawing supplied for reference and inspection purposes only.			This drawing is supplied in confidence. Do not disclose to any third party without prior written consent from Manufacturing Skills Queensland									
LINEAR - PERMISSIBLE DEV. IN MM FOR RANGES IN NOMINAL LENGTHS							SURFACE TEXTURE KEY (SPI STANDARD)			PROJECT NAME		COLOUR:		PART NAME:		DESCRIPTION:		A3							
CLASS	0.5 - 6mm	6 - 30mm	30 - 120mm	120 - 400mm	Over 400mm	Fishing Rod Spike				Black		MONO_038-p226													
<input type="checkbox"/> FINE	±0.05mm	±0.1mm	±0.15mm	±0.2mm	±0.3mm	DRAWING TYPE				FINISH:		Can Holder													
<input checked="" type="checkbox"/> MEDIUM	±0.1mm	±0.1mm	±0.3mm	±0.5mm	±0.8mm	Part Drawing				Matte / Print Finish															
<input type="checkbox"/> COARSE	±0.3mm	±0.5mm	±0.8mm	±1.2mm	±2.0mm				DATE CREATED		MATERIAL:		DO NOT SCALE DRAWING			SCALE:1:2		SHEET 1 OF 1							
ANGULAR - PERMISSIBLE DEV. IN DEGREES & MINUTES FOR RANGES IN NOMINAL LENGTHS									Tuesday, 16 September 2025		ASA Filament														
CLASS	0 - 10mm	10 - 50mm	50 - 120mm	120 - 400mm	Over 400mm	Refer to 3D part surface colouring for application			NOTES:		<ul style="list-style-type: none">- Alternative materials: PETG or PLA filament.- Filament colour/finish are suggestions only, and may be customised to student preference.														
<input type="checkbox"/> FINE	±1°	±0°30'	±0°20'	±0°10'	±0°5'	Pink	Natural	Printed Finish																	
<input checked="" type="checkbox"/> MEDIUM	±1°	±0°30'	±0°20'	±0°10'	±0°5'	Green	Sanded	Sanding (from 220 to 400 Grit)																	
<input type="checkbox"/> COARSE	±1° 30'	±1°	±0°30'	±0°15'	±0°10'	Blue	Smooth	Vapour Smoothing																	
#	DESCRIPTION										DATE														
02	Interface width reduced										17/03/2026														
01	Initial Release										16/09/2025														



NOTES:






- ENSURE REMOVAL OF ALL SUPPORT MATERIAL.
- CHECK DIMENSIONS MARKED WITH OBOUNDS.

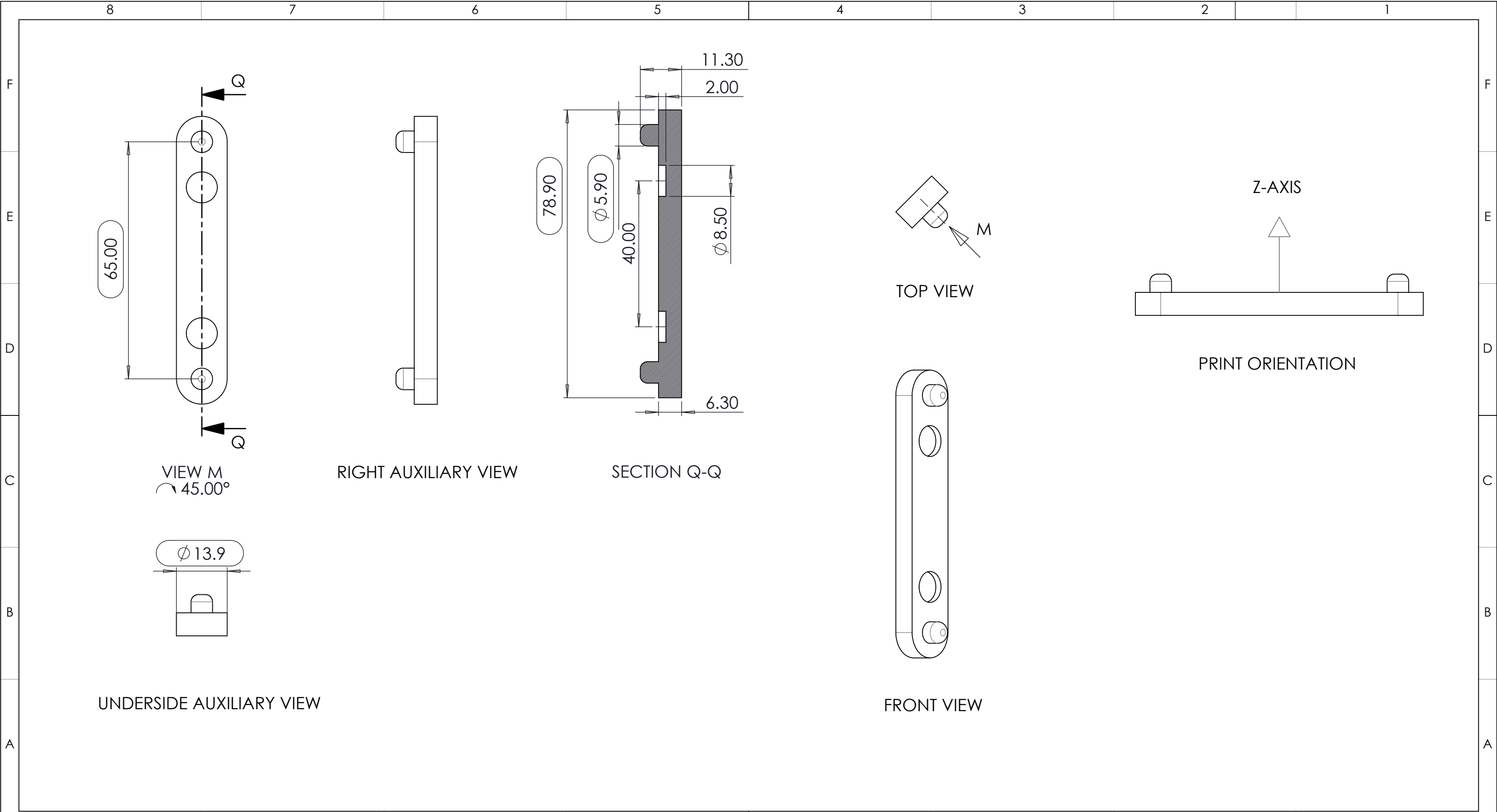
TOLERANCES							DIMENSIONS			PART SUPPLY			DESIGN INTENT		© COPYRIGHT		MANUFACTURING SKILLS QUEENSLAND		monochrome			
• Tolerances to ISO 2768-mK unless otherwise stated. • For dimensions under 0.5mm tolerance is ±0.05. • ISO 2768-1: Per below table (class indicated by check mark). • ISO 2768-2: K (medium)							• All dimensions are in millimetres unless otherwise indicated. • All dimensions to base of draft unless otherwise indicated.			• Printing technology: Fused Deposition Modelling (FDM). • Alternatively, Selective Laser Sintering (SLS), Stereolithography (SLA) or Multi Jet Fusion (MJF) may be used where FDM is unavailable. • Build Orientation: print part with Z-axis as indicated. This is critical for mechanical strength of the part. • Face marked 'A' is a primary cosmetic surface. • Orient part to minimise layer lines and support marks on this face. • Part to be free of excessive stringing, warping, delamination, and major layer shifts. • Remove all support structures. Marks/nibs from support material are permissible on non-critical/internal surfaces only. • Layer lines and some "stair-stepping" on angled/curved surfaces are acceptable. • Tap holes as specified. Do not print threads. • Machine critical bores and faces to specified tolerances after printing. • Align Z-seam on sharpest corner (or as indicated) to minimise visual impact.			Unless otherwise specified, fabricate per 3D model file. Drawing supplied for reference and inspection purposes only.				This drawing is supplied in confidence. Do not disclose to any third party without prior written consent from Manufacturing Skills Queensland				 www.monochrome-design.com	
LINEAR - PERMISSIBLE DEV. IN MM FOR RANGES IN NOMINAL LENGTHS							• Critical inspection dimension:  • Dimensions with ** may require adjustment during tool trials. • First article inspection number:  (supplier to provide FAI report detailing each of these dimensions). • Other dimensions for reference.			PROJECT NAME		Fishing Rod Spike		COLOUR: Black		PART NAME: MONO_038-p228						
CLASS	0.5 - 6mm	6 - 30mm	30 - 120mm	120 - 400mm	Over 400mm	DRAWING TYPE				Part Drawing		FINISH: Matte / Print Finish		DESCRIPTION: Bait Cup Attachment A3 SHEET 1 OF 1								
<input checked="" type="checkbox"/> MEDIUM	±0.1mm	±0.1mm	±0.3mm	±0.5mm	±0.8mm	DATE CREATED				Tuesday, 16 September 2025		MATERIAL: ASA Filament										
COARSE	±0.3mm	±0.5mm	±0.8mm	±1.2mm	±2.0mm	NOTES:				- Alternative materials: PETG or PLA filament. - Filament colour/finish are suggestions only, and may be customised to student preference.												
ANGULAR - PERMISSIBLE DEV. IN DEGREES & MINUTES FOR RANGES IN NOMINAL LENGTHS							SURFACE TEXTURE KEY (SPI STANDARD)			02		Interface width reduced		17/03/2026								
CLASS	0 - 10mm	10 - 50mm	50 - 120mm	120 - 400mm	Over 400mm	Refer to 3D part surface colouring for application			01		Initial Release		16/09/2025									
<input checked="" type="checkbox"/> MEDIUM	±1°	±0°30'	±0°20'	±0°10'	±0°5'	Pink	Natural	Printed Finish	#		DESCRIPTION		DATE									
COARSE	±1° 30'	±1°	±0°30'	±0°15'	±0°10'	Blue	Smooth	Vapour Smoothing							DO NOT SCALE DRAWING							
																SCALE:1:2						








NOTES:

- ENSURE REMOVAL OF ALL SUPPORT MATERIAL.
- CHECK DIMENSIONS MARKED WITH OBOUNDS.

TOLERANCES							DIMENSIONS			PART SUPPLY			DESIGN INTENT		© COPYRIGHT		MANUFACTURING SKILLS QUEENSLAND		monochrome			
<ul style="list-style-type: none">Tolerances to ISO 2768-mK unless otherwise stated.For dimensions under 0.5mm tolerance is ±0.05.ISO 2768-1: Per below table (class indicated by check mark).ISO 2768-2: K (medium)							<ul style="list-style-type: none">All dimensions are in millimetres unless otherwise indicated.All dimensions to base of draft unless otherwise indicated.			<ul style="list-style-type: none">Printing technology: Fused Deposition Modelling (FDM).Alternatively, Selective Laser Sintering (SLS), Stereolithography (SLA) or Multi Jet Fusion (MJF) may be used where FDM is unavailable.Build Orientation: print part with Z-axis as indicated. This is critical for mechanical strength of the part.Face marked 'A' is a primary cosmetic surface.Orient part to minimise layer lines and support marks on this face.Part to be free of excessive stringing, warping, delamination, and major layer shifts.Remove all support structures. Marks/nibs from support material are permissible on non-critical/internal surfaces only.Layer lines and some "stair-stepping" on angled/curved surfaces are acceptable.Tap holes as specified. Do not print threads.Machine critical bores and faces to specified tolerances after printing.Align Z-seam on sharpest corner (or as indicated) to minimise visual impact.			Unless otherwise specified, fabricate per 3D model file. Drawing supplied for reference and inspection purposes only.				This drawing is supplied in confidence. Do not disclose to any third party without prior written consent from Manufacturing Skills Queensland				 www.monochrome-design.com	
LINEAR - PERMISSIBLE DEV. IN MM FOR RANGES IN NOMINAL LENGTHS							<div><div><div></div></div><div><div></div></div><div><div></div></div></div> <ul style="list-style-type: none">Critical inspection dimension: Dimensions with ** may require adjustment during tool trials.First article inspection number:  (supplier to provide FAI report detailing each of these dimensions).Other dimensions for reference.			PROJECT NAME		Fishing Rod Spike		COLOUR: Black		PART NAME: MONO_038-p231						
CLASS	0.5 - 6mm	6 - 30mm	30 - 120mm	120 - 400mm	Over 400mm	DRAWING TYPE				Part Drawing		FINISH: Matte / Print Finish										
<input type="checkbox"/> FINE	±0.05mm	±0.1mm	±0.15mm	±0.2mm	±0.3mm	DATE CREATED				Tuesday, 16 September 2025		MATERIAL: ASA Filament		DESCRIPTION: Accessory Attachment Base		A3 SHEET 1 OF 1						
<input checked="" type="checkbox"/> MEDIUM	±0.1mm	±0.1mm	±0.3mm	±0.5mm	±0.8mm																	
<input type="checkbox"/> COARSE	±0.3mm	±0.5mm	±0.8mm	±1.2mm	±2.0mm							NOTES: - Alternative materials: PETG or PLA filament. - Filament colour/finish are suggestions only, and may be customised to student preference.		DO NOT SCALE DRAWING		SCALE:1:1						
ANGULAR - PERMISSIBLE DEV. IN DEGREES & MINUTES FOR RANGES IN NOMINAL LENGTHS							SURFACE TEXTURE KEY (SPI STANDARD)															
CLASS	0 - 10mm	10 - 50mm	50 - 120mm	120 - 400mm	Over 400mm	Refer to 3D part surface colouring for application																
<input type="checkbox"/> FINE	±1°	±0°30'	±0°20'	±0°10'	±0°5'	Pink	Natural	Printed Finish														
<input checked="" type="checkbox"/> MEDIUM	±1°	±0°30'	±0°20'	±0°10'	±0°5'	Green	Sanded	Sanding (from 220 to 400 Grit)														
<input type="checkbox"/> COARSE	±1°30'	±1°	±0°30'	±0°15'	±0°10'	Blue	Smooth	Vapour Smoothing														
#	DESCRIPTION					DATE																
02	Width reduced					17/03/2026																
01	Initial Release					16/09/2025																



TOLERANCES							DIMENSIONS			PART SUPPLY			DESIGN INTENT		© COPYRIGHT		MANUFACTURING SKILLS QUEENSLAND		monochrome www.monochrome-design.com			
• Tolerances to ISO 2768-mK unless otherwise stated. • For dimensions under 0.5mm tolerance is ±0.05. • ISO 2768-1: Per below table (class indicated by check mark). • ISO 2768-2: K (medium)							• All dimensions are in millimetres unless otherwise indicated. • All dimensions to base of draft unless otherwise indicated.			• Printing technology: Fused Deposition Modelling (FDM). • Alternatively, Selective Laser Sintering (SLS), Stereolithography (SLA) or Multi Jet Fusion (MJF) may be used where FDM is unavailable. • Build Orientation: print part with Z-axis as indicated. This is critical for mechanical strength of the part. • Face marked 'A' is a primary cosmetic surface. • Orient part to minimise layer lines and support marks on this face. • Part to be free of excessive stringing, warping, delamination, and major layer shifts. • Remove all support structures. Marks/nibs from support material are permissible on non-critical/internal surfaces only. • Layer lines and some 'stair-stepping' on angled/curved surfaces are acceptable. • Tap holes as specified. Do not print threads. • Machine critical bores and faces to specified tolerances after printing. • Align Z-seam on sharpest corner (or as indicated) to minimise visual impact.			Unless otherwise specified, fabricate per 3D model file. Drawing supplied for reference and inspection purposes only.				This drawing is supplied in confidence. Do not disclose to any third party without prior written consent from Manufacturing Skills Queensland					
LINEAR - PERMISSIBLE DEV. IN MM FOR RANGES IN NOMINAL LENGTHS							• Critical inspection dimension:  • Dimensions with ** may require adjustment during tool trials. • First article inspection number:  (supplier to provide FAI report detailing each of these dimensions). • Other dimensions for reference.			PROJECT NAME		Fishing Rod Spike		COLOUR: Black		PART NAME: MONO_038-p232						
CLASS	0.5 - 6mm	6 - 30mm	30 - 120mm	120 - 400mm	Over 400mm	DRAWING TYPE				Part Drawing		FINISH: Matte / Print Finish		DESCRIPTION: Accessory Fastener Cover		A3 SHEET 1 OF 1						
<input checked="" type="checkbox"/> MEDIUM	±0.1mm	±0.1mm	±0.3mm	±0.5mm	±0.8mm	DATE CREATED				Tuesday, 16 September 2025		MATERIAL: ASA Filament										
COARSE	±0.3mm	±0.5mm	±0.8mm	±1.2mm	±2.0mm	ANGULAR - PERMISSIBLE DEV. IN DEGREES & MINUTES FOR RANGES IN NOMINAL LENGTHS							SURFACE TEXTURE KEY (SPI STANDARD)									
CLASS	0 - 10mm	10 - 50mm	50 - 120mm	120 - 400mm	Over 400mm	Refer to 3D part surface colouring for application																
FINE	±1°	±0°30'	±0°20'	±0°10'	±0°5'	Pink	Natural	Printed Finish														
<input checked="" type="checkbox"/> MEDIUM	±1°	±0°30'	±0°20'	±0°10'	±0°5'	Green	Sanded	Sanding (from 220 to 400 Grit)														
COARSE	±1° 30'	±1°	±0°30'	±0°15'	±0°10'	Blue	Smooth	Vapour Smoothing														
#	DESCRIPTION		DATE																			