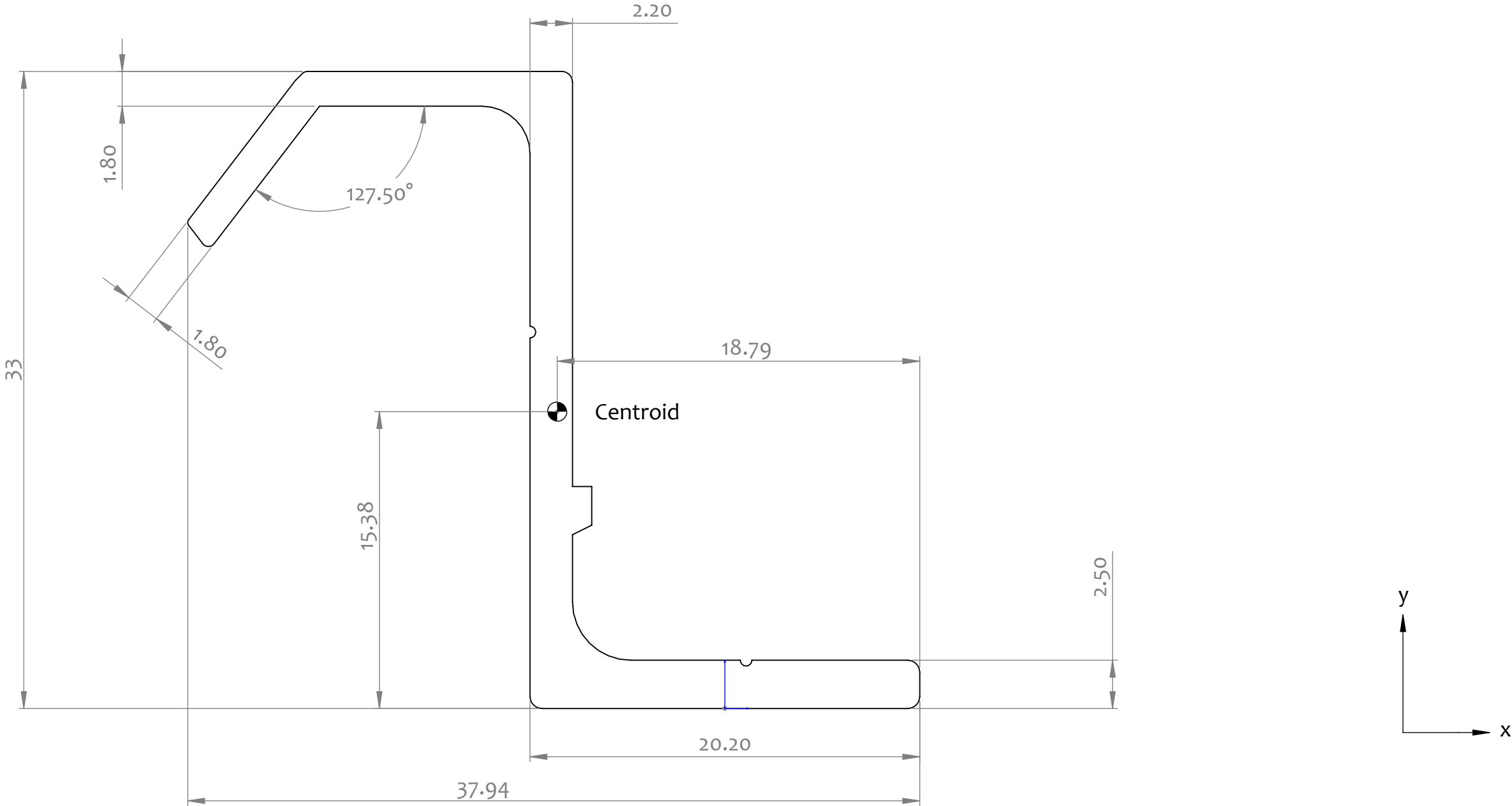


Properties	units	Value
Area	mm^2	160.31
Weight	grammes/m	432.84
Ixx	mm^4	4019.20
Iyy	mm^4	32003.25



Material :
Finish :
Weight : grammes

X:\XSphere\Clients\Mulford PLastics\MUP-001_Profile_Properties\

		APPROVED FOR CONSTRUCTION			
		DESIGNED TO			
A	For Review			24/10/2025	
Rev	Description	By	App	Date	



Knack Engineering Ltd
Chartered Engineer - Structural, Mechanical, Design, Imaging
antoni j rajwer be(hons), MBA, CPEng, IntPE, MIPENZ 139139
26 Postman Road, RD4, Dairy Flat
Albany, Auckland 0794, New Zealand
e:antoni@knackengineering.co.nz
w: knackengineering.co.nz m:+6421741870

Drawn	AJR	24/10/2025
Checked		
Approved		
Projection		Scale
		4:1
		@ A3

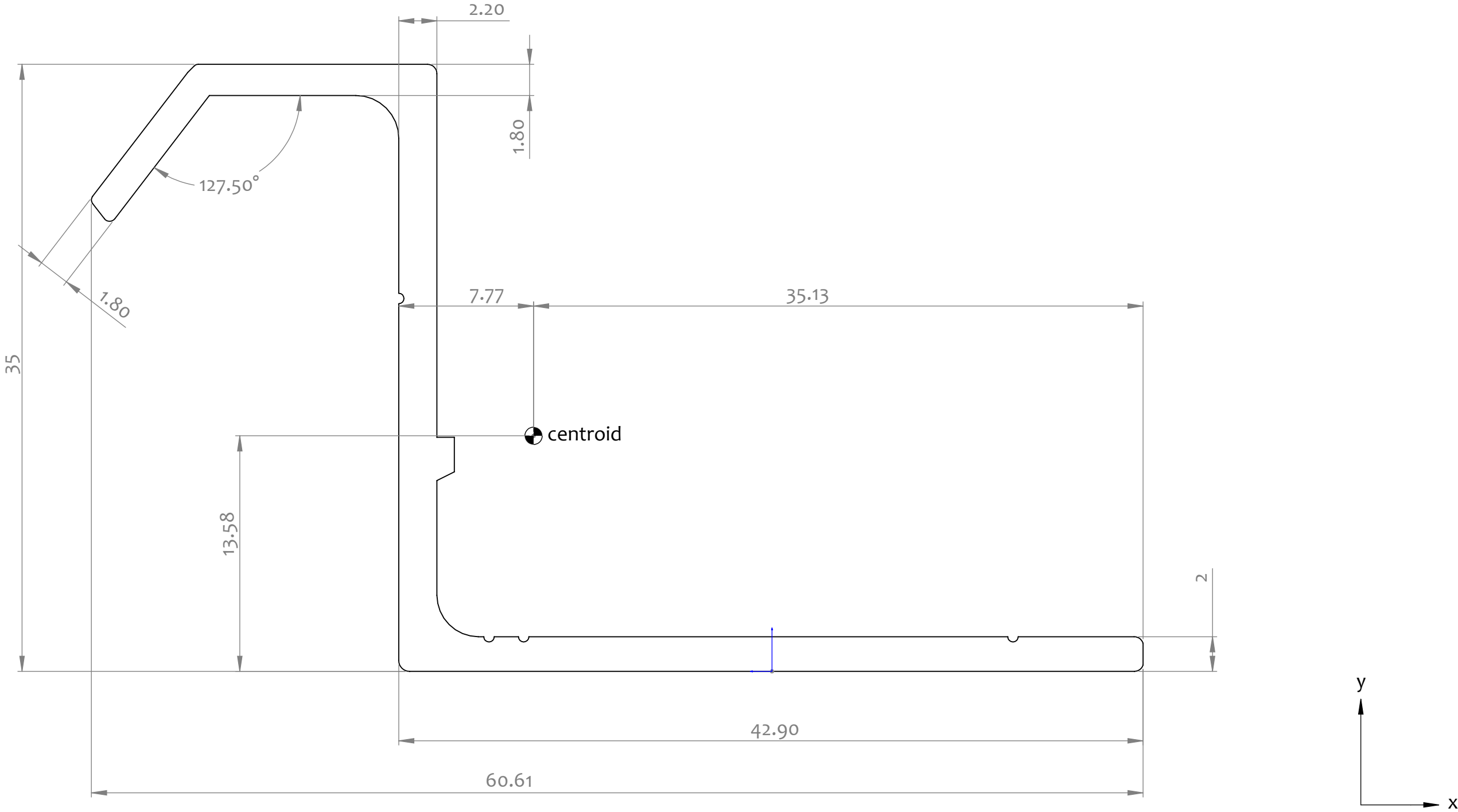


Mulford Plastics NZ & Australia
7 Reg Savory Place
East Tamaki
+64 9 573 0145
www.mulfordplastics.co.nz

This document is supplied in confidence and must NOT be reproduced in any part or form without the consent in writing from Knack Engineering Ltd

Title		
Profile 1 Sectional Properties For Information only		
Drawing Number	Sheet	Rev
MUP-001-001	1 of 6	A

Properties	units	Value
Area	mm^2	200.08
Weight	grammes/m	540.23
Ixx	mm^4	10921.64
Iyy	mm^4	69850.38



Material :
Finish :
Weight : grammes

X:\XSphere\Clients\Mulford PLastics\MUP-001_Profile_Properties\

		APPROVED FOR CONSTRUCTION			
		Antoni J. Rajwerc			
		DESIGN TRANSFER TO			
		Antoni J. Rajwerc			
A	For Review			24/10/2025	
Rev	Description	By	App	Date	



Knack Engineering Ltd
Chartered Engineer - Structural, Mechanical, Design, Imaging
antoni j rajwerc be(hons), MBA, CPEng, IntPE, MIPENZ 139139
26 Postman Road, RD4, Dairy Flat
Albany, Auckland 0794, New Zealand
e:antoni@knackengineering.co.nz
w:knackengineering.co.nz m:+6421741870

Drawn	AJR	24/10/2025
Checked		
Approved		
Projection		Scale
		1:10
		@ A3

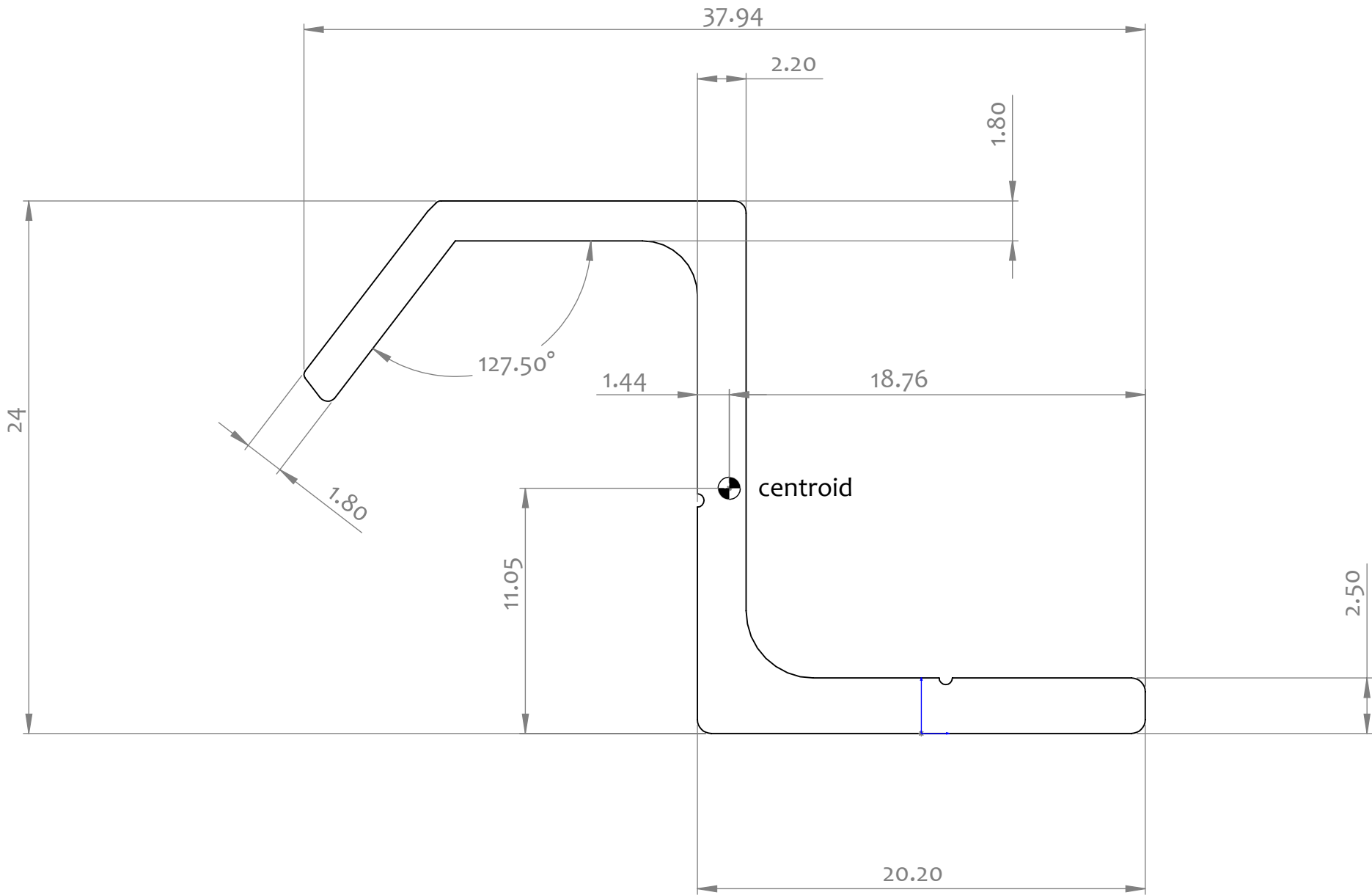


Mulford Plastics NZ & Australia
7 Reg Savory Place
East Tamaki
+64 9 573 0145
www.mulfordplastics.co.nz

This document is supplied in confidence and must NOT be reproduced in any part or form without the consent in writing from Knack Engineering Ltd

Title		
Profile 2 Sectional Properties For Information only		
Drawing Number	Sheet	Rev
MUP-001-002	2 of 6	A

Properties	units	Value
Area	mm^2	138.20
Weight	grammes/m	373.15
Ixx	mm^4	2953.99
Iyy	mm^4	19493.50



Material :
Finish :
Weight : grammes

X:\XSphere\Clients\Mulford PLastics\MUP-001_Profile_Properties\

		APPROVED FOR CONSTRUCTION			
		DESIGNED TO			
A	For Review	24/10/2025			
Rev	Description	By	App	Date	



Knack Engineering Ltd
Chartered Engineer - Structural, Mechanical, Design, Imaging
antoni j rajwber be(hons), MBA, CPEng, IntPE, MIPENZ 139139
26 Postman Road, RD4, Dairy Flat
Albany, Auckland 0794, New Zealand
e:antoni@knackengineering.co.nz co.nz
w:knackengineering.co.nz m:+6421741870

Drawn	AJR	24/10/2025
Checked		
Approved		
Projection		Scale
		4:1
		@ A3

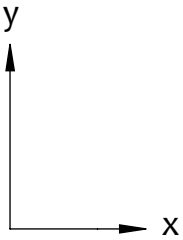
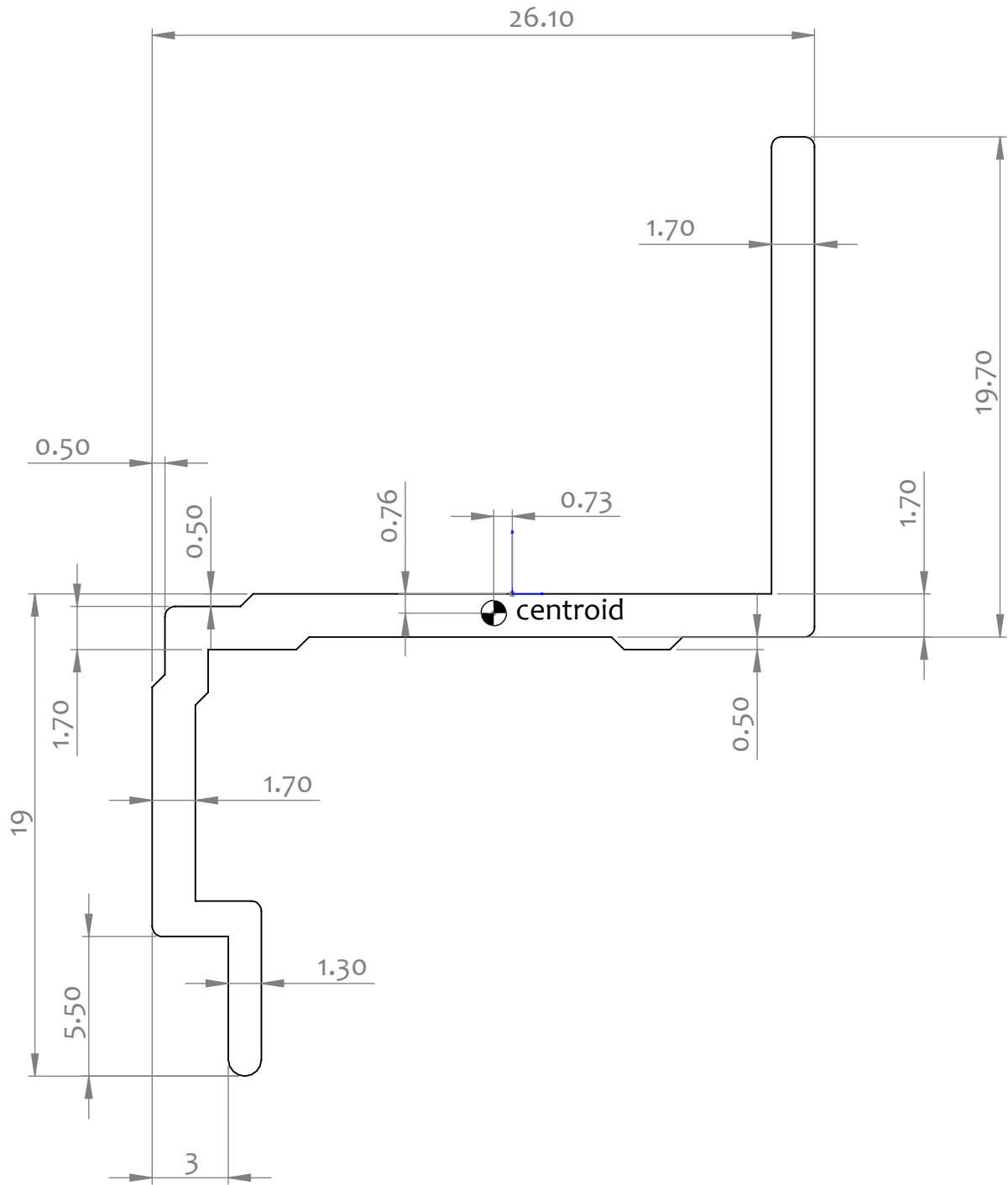


Mulford Plastics NZ & Australia
7 Reg Savory Place
East Tamaki
+64 9 573 0145
www.mulfordplastics.co.nz

This document is supplied in confidence and must NOT be reproduced in any part or form without the consent in writing from Knack Engineering Ltd

Title		
Profile 3 Sectional Properties For Information only		
Drawing Number	Sheet	Rev
MUP-001-003	3 of 6	A

<i>Properties</i>	<i>units</i>	<i>Value</i>
Area	mm^2	106.34
Weight	grammes/m	287.11
Ixx	mm^4	1960.32
Iyy	mm^4	16024.30

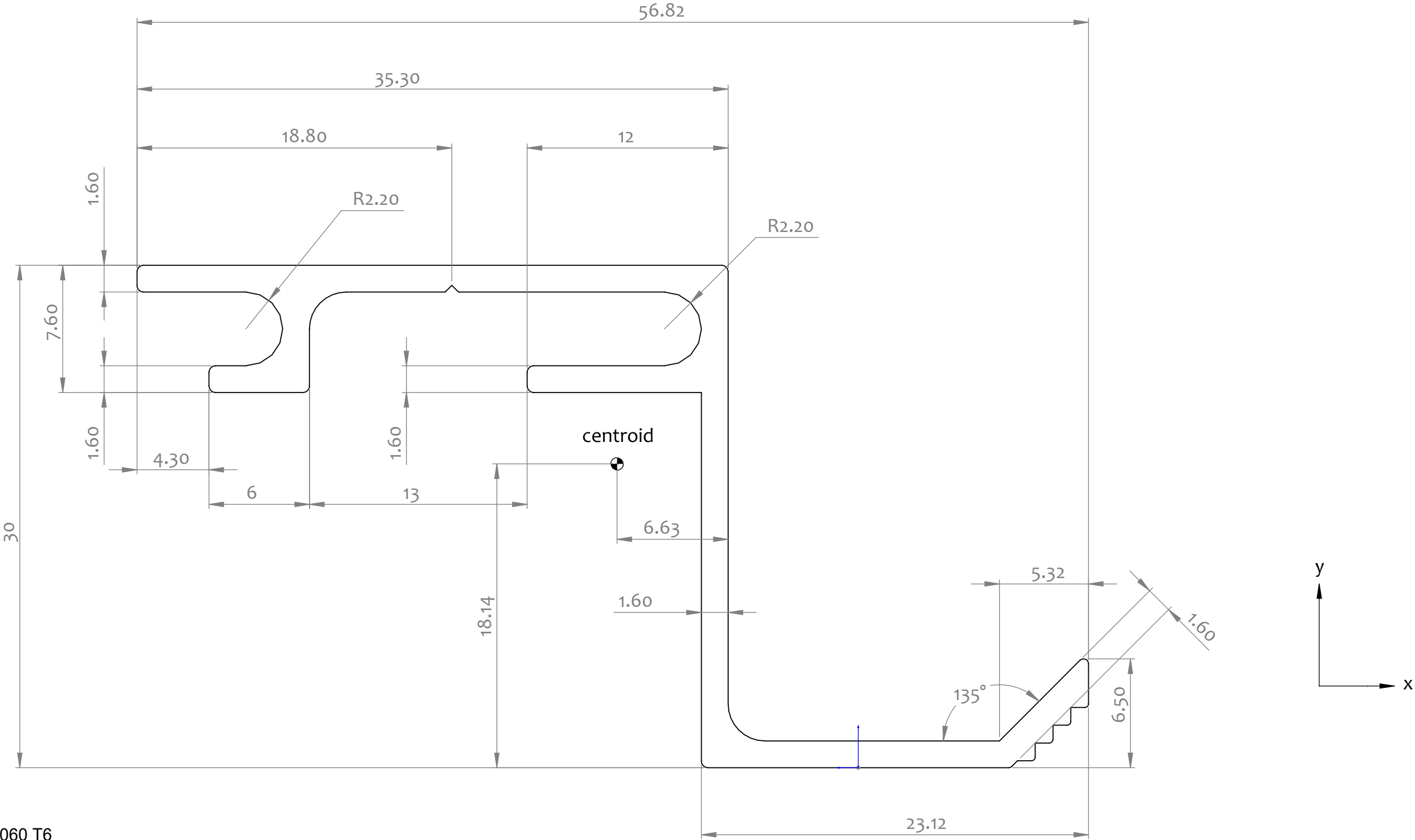


Material : 6060 T6
Finish : Natural
Weight : grammes

X:\XSphere\Clients\Mulford PLastics\MUP-002_Panelux_substitution\

		APPROVED FOR CONSTRUCTION Antoni J. Rajwer XSPHERE				 Knack Engineering Ltd Chartered Engineer - Structural, Mechanical, Design, Imaging antoni.j.rajwer@knackengineering.co.nz 26 Postman Road, RD4, Dairy Flat Albany, Auckland 0794, New Zealand e: antoni@knackengineering.co.nz w: knackengineering.co.nz m: +6423741870	Drawn	AJR	17/12/2025	 Mulford Plastics NZ & Australia 7 Reg Savory Place East Tamaki +64 9 573 0145 www.mulfordplastics.co.nz	Title			Mulford LAB Profile Sectional Properties Part Details					
		DESIGN TRANSFER TO Antoni J. Rajwer XSPHERE					Checked												
		DESIGN TRANSFER TO Antoni J. Rajwer XSPHERE					Approved												
		DESIGN TRANSFER TO Antoni J. Rajwer XSPHERE					Projection				Scale	4:1							
Rev	A	For Information	Description	By	App	Date	This document is supplied in confidence and must NOT be reproduced in any part or form without the consent in writing from Knack Engineering Ltd				Drawing Number	MUP-002-001	Sheet	4 of 6	Rev	A			

Properties	units	Value
Area	mm^2	180.80
Weight	grammes/m	488.15
Ixx	mm^4	6997.45
Iyy	mm^4	54395.47



Material : 6060 T6
Finish : Natural
Weight : grammes
X:\XSphere\Clients\Mulford PLastics\MUP-002_Panelux_substitution\

		APPROVED FOR CONSTRUCTION Antoni J. Rajwer 17/12/2025				 Knack Engineering Ltd Chartered Engineer - Structural, Mechanical, Design, Imaging antoni.j.rajwer@knackengineering.co.nz, MBA, CPEng, IntPE, MIPENZ 139139 26 Postman Road, RD4, Dairy Flat Albany, Auckland 0794, New Zealand e:antoni@knackengineering.co.nz w: knackengineering.co.nz m:+6421741870	Drawn	AJR	17/12/2025	 Mulford Plastics NZ & Australia 7 Reg Savory Place East Tamaki +64 9 573 0145 www.mulfordplastics.co.nz	Title			
												TBA Profile 1 Sectional Properties Part Details		
A	For Information				17/12/2025									
Rev		Description	By	App	Date		  4:1 @ A3				This document is supplied in confidence and must NOT be reproduced in any part or form without the consent in writing from Knack Engineering Ltd	Drawing Number MUP-002-003	Sheet 5 of 6	Rev A

