Sectional Properties

Area = 117.0 millimeters^2

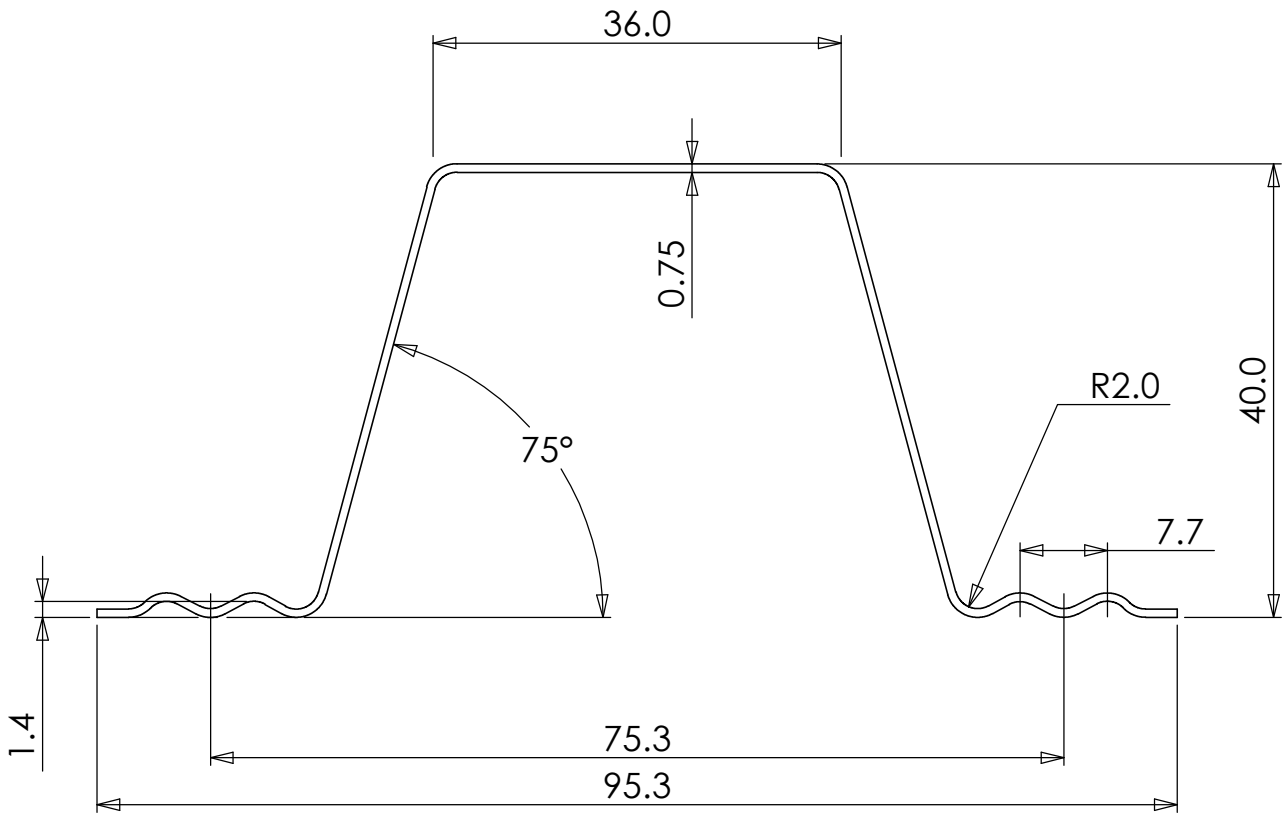
Centroid relative to output coordinate system origin: (millimeters)
X = 0.0
Y = 19.4
Z = 0.0

Moments of inertia of the area, at the centroid: (millimeters ^ 4)
Lxx = 28675.3 Lxy = 0.0 Lxz = 0.0
Lyx = 0.0 Lyy = 80231.7 Lyz = 0.0
Lzx = 0.0 Lzy = 0.0 Lzz = 108907.0

Polar moment of inertia of the area, at the centroid = 108907.0 millimeters ^ 4

Principal moments of inertia of the area, at the centroid: (millimeters ^ 4)
Ix = 28675.3
Iy = 80231.7

Moments of inertia of the area, at the output coordinate system: (millimeters ^ 4)
LXX = 72664.1 LXY = -0.0 LXZ = 0.0
LYX = -0.0 LYY = 80231.7 LYZ = 0.0
LZX = 0.0 LZY = 0.0 LZZ = 152895.8



REVISION	NOTES	DATE

STOCK NO.	Dwg. No. Part. 00011001a 40x0.75 TopHat (option 1)		SCALE 1.5:1	SHEET No. 1 OF 1
TOLERANCES XX = ± 1.0 XX.X = ± 0.1 XX.XX = ± 0.03 STANDARD TOLERANCES UNLESS OTHERWISE STATED ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED DO NOT SCALE IF IN DOUBT, ASK	MATERIAL G550	FINISH Z275 Galv.	No. OFF	A4
	DRAWN Anton Mucalo	11/12/2014		
	CHECKED			
	APPROVED			

HOWICK
INNOVATION...READY TO ROLL
117 VINCENT STREET HOWICK
AUCKLAND NEW ZEALEND
Ph: (09)-534-5569 Fax: (09)-537-0459
email: info@howick.co.nz

Sectional Properties

Area = 147.7 millimeters^2

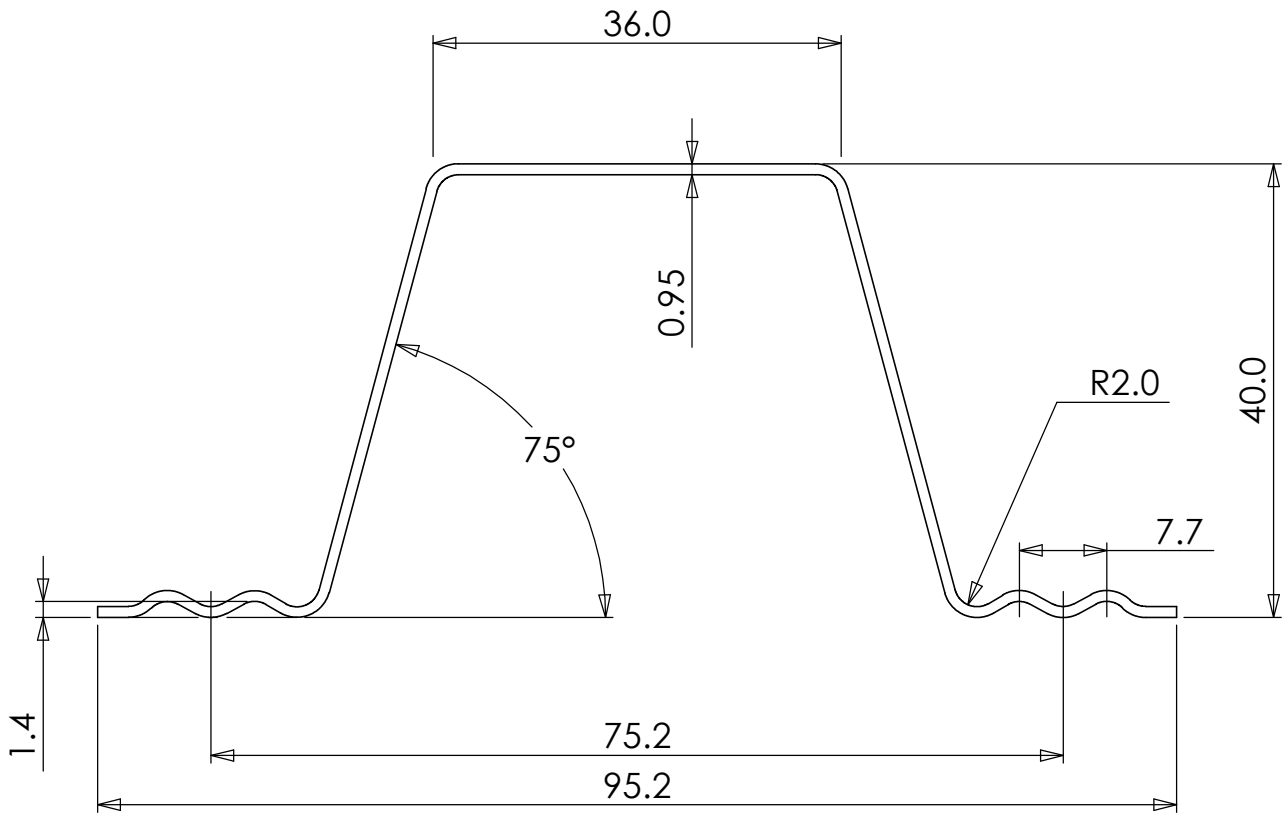
Centroid relative to output coordinate system origin: (millimeters)
X = 0.0
Y = 19.4
Z = 0.0

Moments of inertia of the area, at the centroid: (millimeters ^ 4)
Lxx = 35859.4 Lxy = 0.0 Lxz = 0.0
Lyx = 0.0 Lyy = 100921.1 Lyz = 0.0
Lzx = 0.0 Lzy = 0.0 Lzz = 136780.5

Polar moment of inertia of the area, at the centroid = 136780.5 millimeters ^ 4

Principal moments of inertia of the area, at the centroid: (millimeters ^ 4)
Ix = 35859.4
Iy = 100921.1

Moments of inertia of the area, at the output coordinate system: (millimeters ^ 4)
LXX = 91190.3 LXY = 0.0 LXZ = 0.0
LYX = 0.0 LYY = 100921.1 LYZ = 0.0
LZX = 0.0 LZY = 0.0 LZZ = 192111.5



REVISION	NOTES	DATE

STOCK NO.	Dwg. No. Part. 00011001b 40x0.95 TopHat (option 1)		SCALE 1.5:1	SHEET No. 1 OF 1
TOLERANCES XX = ± 1.0 XX.X = ± 0.1 XX.XX = ± 0.03 STANDARD TOLERANCES UNLESS OTHERWISE STATED ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED DO NOT SCALE IF IN DOUBT, ASK	MATERIAL G550	FINISH Z275 Galv.	No. OFF	A4
	DRAWN Anton Mucalo	11/12/2014		
	CHECKED			
	APPROVED			

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AUCKLAND NEW ZEALEND
Ph: (09)-534-5569 Fax: (09)-537-0459
email: info@howick.co.nz

Sectional Properties

Area = 178.2 millimeters^2

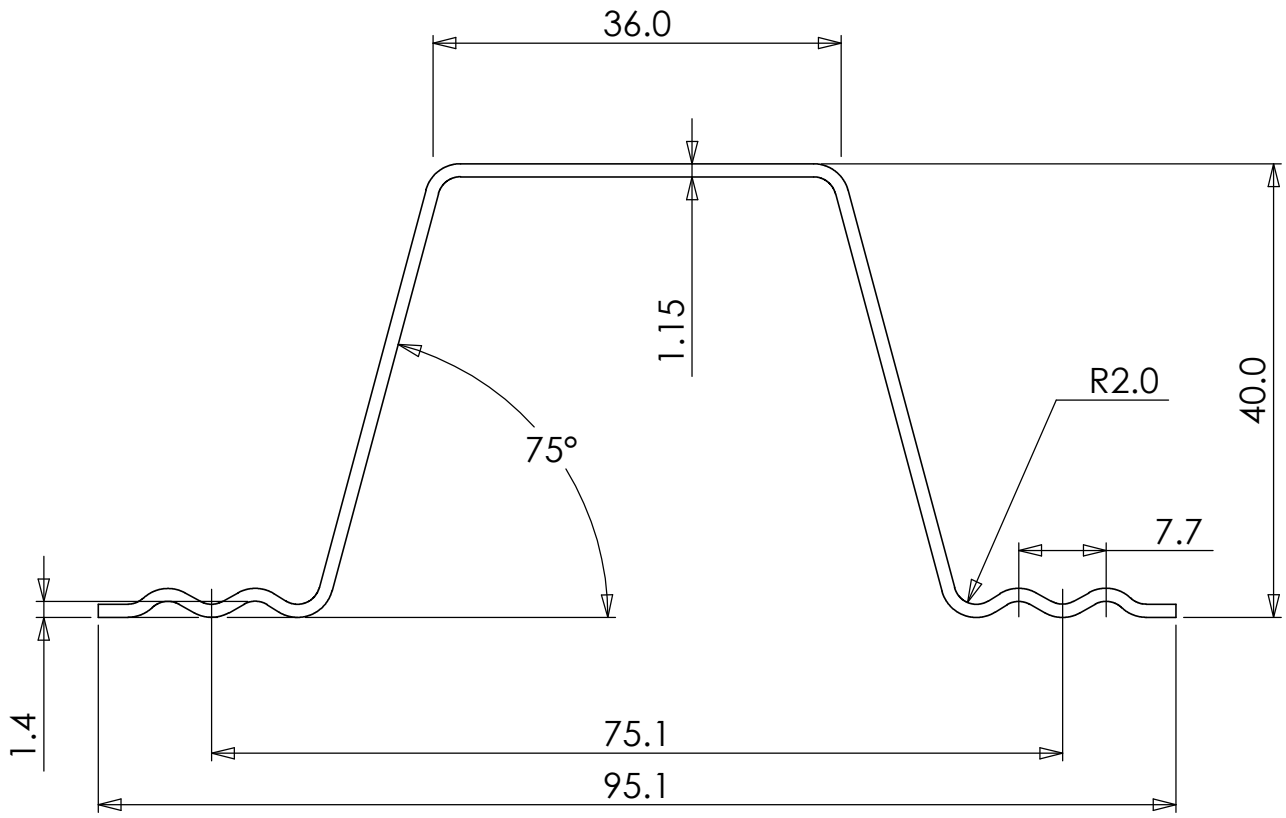
Centroid relative to output coordinate system origin: (millimeters)
X = 0.0
Y = 19.3
Z = 0.0

Moments of inertia of the area, at the centroid: (millimeters ^ 4)
Lxx = 42855.7 Lxy = 0.0 Lxz = 0.0
Lyx = 0.0 Lyy = 121325.7 Lyz = 0.0
Lzx = 0.0 Lzy = 0.0 Lzz = 164181.5

Polar moment of inertia of the area, at the centroid = 164181.5 millimeters ^ 4

Principal moments of inertia of the area, at the centroid: (millimeters ^ 4)
Ix = 42855.7
Iy = 121325.7

Moments of inertia of the area, at the output coordinate system: (millimeters ^ 4)
LXX = 109367.1 LXY = 0.0 LXZ = -0.0
LYX = 0.0 LYY = 121325.7 LYZ = 0.0
LZX = -0.0 LZY = 0.0 LZZ = 230692.9



REVISION	NOTES	DATE

STOCK NO.	Dwg. No. Part. 00011001c 40x1.5 TopHat (option 1)		SCALE 1.5:1	SHEET No. 1 OF 1
TOLERANCES XX = ± 1.0 XX.X = ± 0.1 XX.XX = ± 0.03 STANDARD TOLERANCES UNLESS OTHERWISE STATED ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED DO NOT SCALE IF IN DOUBT, ASK	MATERIAL G550	FINISH Z275 Galv.	No. OFF	A4
DRAWN Anton Mucalo	11/12/2014			
CHECKED				
APPROVED				

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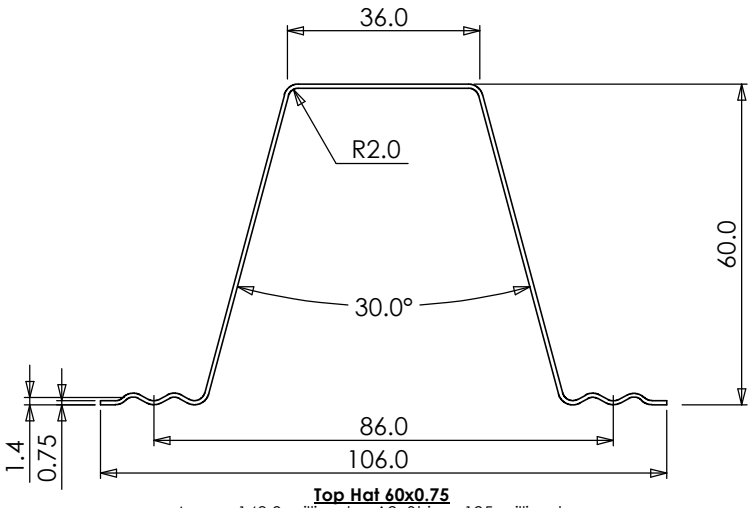
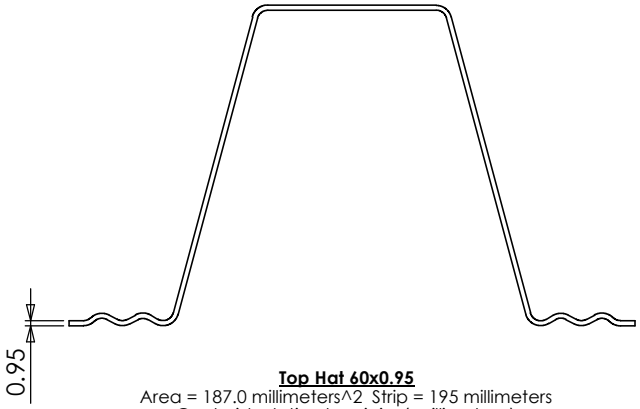
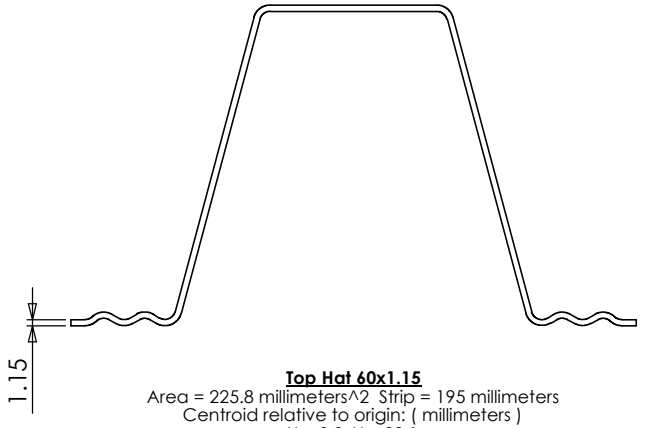
117 VINCENT STREET HOWICK
AUCKLAND NEW ZEALEND
Ph: (09)-534-5569 Fax: (09)-537-0459
email: info@howick.co.nz



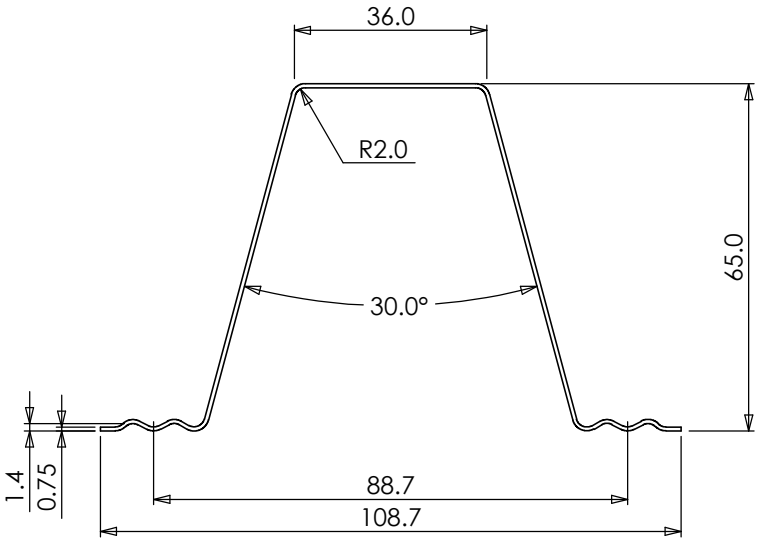
Top Hat 60x0.75
Area = 148.0 millimeters^2 Strip = 195 millimeters
Centroid relative to origin: (millimeters)
X = 0.0 Y = 29.2
Moments of inertia of the area, at the centroid: (millimeters ^ 4)
Lxx = 74946.4 Lyy = 123227.6
Polar moment of inertia of the area, at the centroid
= 198173.9 millimeters ^ 4



Top Hat 60x0.95
Area = 187.0 millimeters^2 Strip = 195 millimeters
Centroid relative to origin: (millimeters)
X = 0.0 Y = 29.2
Moments of inertia of the area, at the centroid: (millimeters ^ 4)
Lxx = 94086.6 Lyy = 155082.1
Polar moment of inertia of the area, at the centroid
= 249168.7 millimeters ^ 4

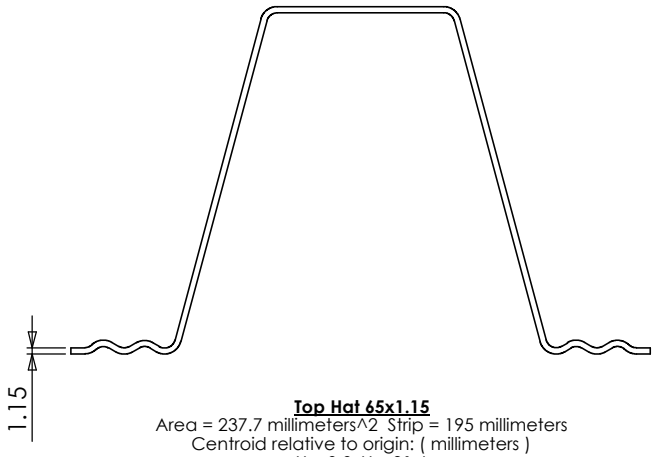


Top Hat 60x1.15
Area = 225.8 millimeters^2 Strip = 195 millimeters
Centroid relative to origin: (millimeters)
X = 0.0 Y = 29.1
Moments of inertia of the area, at the centroid: (millimeters ^ 4)
Lxx = 112881.2 Lyy = 186528.6
Polar moment of inertia of the area, at the centroid
= 299409.8 millimeters ^ 4



Top Hat 65x0.75
Area = 155.8 millimeters^2 Strip = 205 millimeters
Centroid relative to origin: (millimeters)
X = 0.0 Y = 31.7
Moments of inertia of the area, at the centroid: (millimeters ^ 4)
Lxx = 90895.5 Lyy = 135925.2
Polar moment of inertia of the area, at the centroid
= 226821.1 millimeters ^ 4

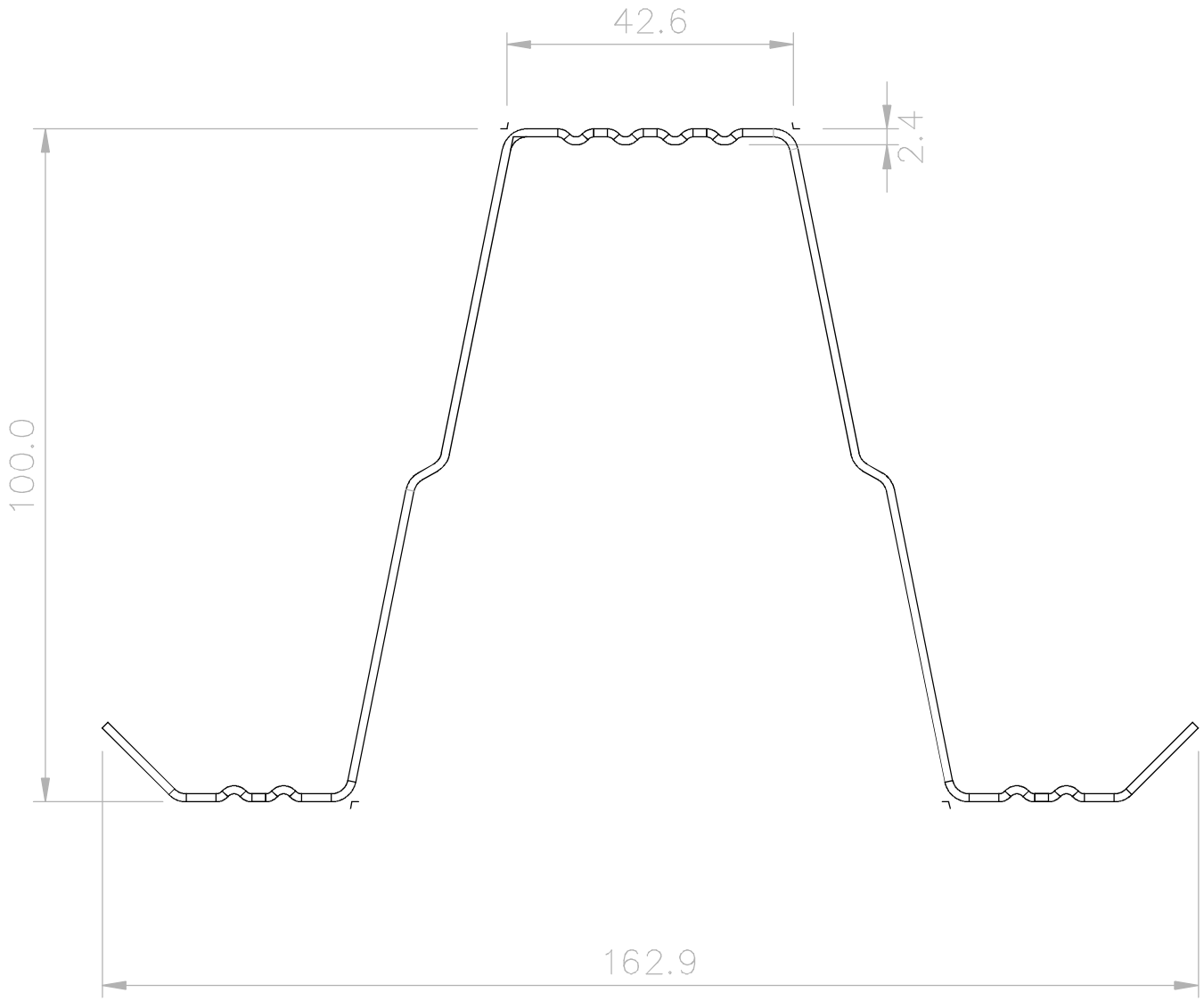
Top Hat 65x0.95
Area = 196.8 millimeters^2 Strip = 205 millimeters
Centroid relative to origin: (millimeters)
X = 0.0 Y = 31.6
Moments of inertia of the area, at the centroid: (millimeters ^ 4)
Lxx = 114178.7 Lyy = 171083.1
Polar moment of inertia of the area, at the centroid
= 285261.8 millimeters ^ 4



Top Hat 65x1.15
Area = 237.7 millimeters^2 Strip = 195 millimeters
Centroid relative to origin: (millimeters)
X = 0.0 Y = 31.6
Moments of inertia of the area, at the centroid: (millimeters ^ 4)
Lxx = 137070.2 Lyy = 205799.0
Polar moment of inertia of the area, at the centroid
= 342869.2 millimeters ^ 4

STOCK NO.	TITLE: RFS DS60mm Tophat Section Properties			SCALE: 1:1	SHEET No.: 1 / 1
TOLERANCES XX = ± 1.0 XX.X = ± 0.1 XX.XX = ± 0.03 STANDARD TOLERANCES UNLESS OTHERWISE STATED ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED	MATERIAL: G550		FINISH: Z275 Galv.	No. OFF	A3
	DRAWN: Anton Mucalo	3/07/2014			
	CHECKED				
	APPROVED				

Rollforming SERVICES LIMITED
P: +64 9 271 6834 F: +64 9 271 6835
16B Ormiston Road, East Tamaki
Auckland, New Zealand
PO Box 217 030, Botany Junction, Manukau 2164
M: 027 222 9449 email: steven@rollforming.co.nz

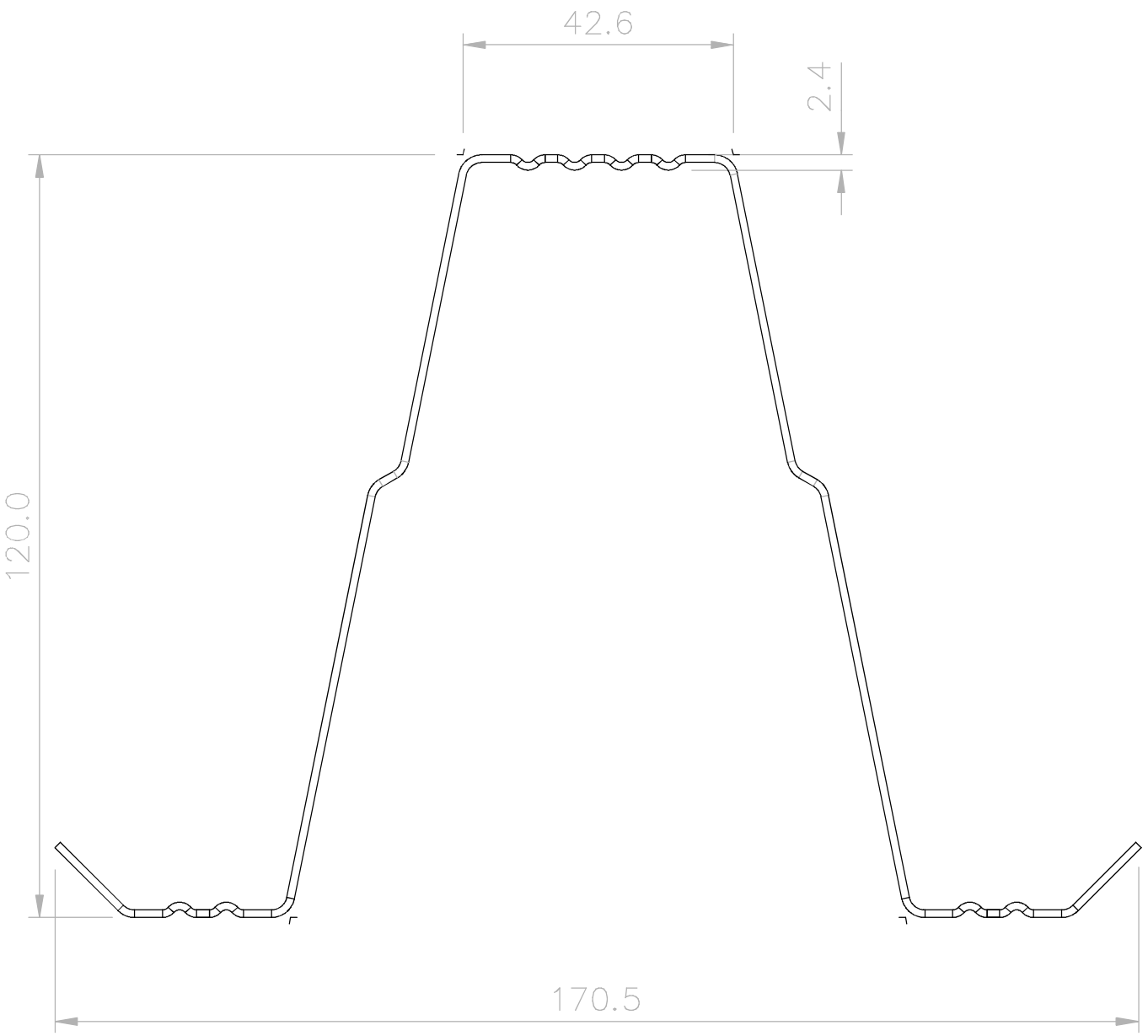


ISSUE	NOTES	DATE

TOLERANCES XX = ± 1.0 XX.X = ± 0.1 XX.XX = ± 0.03	TITLE: 100mm TOP HAT		ROLLFORMING SERVICES LTD 18b Ormiston Road, East Tamaki Auckland, New Zealand. COPYRIGHT ROLLFORMING SERVICES LTD ©
	MATERIAL: 0.75 – 0.95	STRIP WIDTH:	
	FINISH: GALV.		
STANDARD TOLERANCES UNLESS OTHERWISE STATED	DRAWN: T. CORNWALL	23/9/04	ALL DIMENSIONS ARE IN mm. – UNLESS OTHERWISE STATED. DO NOT SCALE – IF IN DOUBT, ASK.
	CHECKED:		
	APPROVED:		SCALE: 1:1

DWG. No. 212/PROFa

A4



ISSUE	NOTES	DATE

TOLERANCES

XX = ± 1.0
XX.X = ± 0.1
XX.XX = ± 0.03

STANDARD TOLERANCES UNLESS OTHERWISE STATED

TITLE: 120mm TOP HAT

MATERIAL: 0.75 – 0.95

STRIP WIDTH:

FINISH: GALV.

DRAWN: T. CORNWALL 23/9/04

CHECKED:

APPROVED:

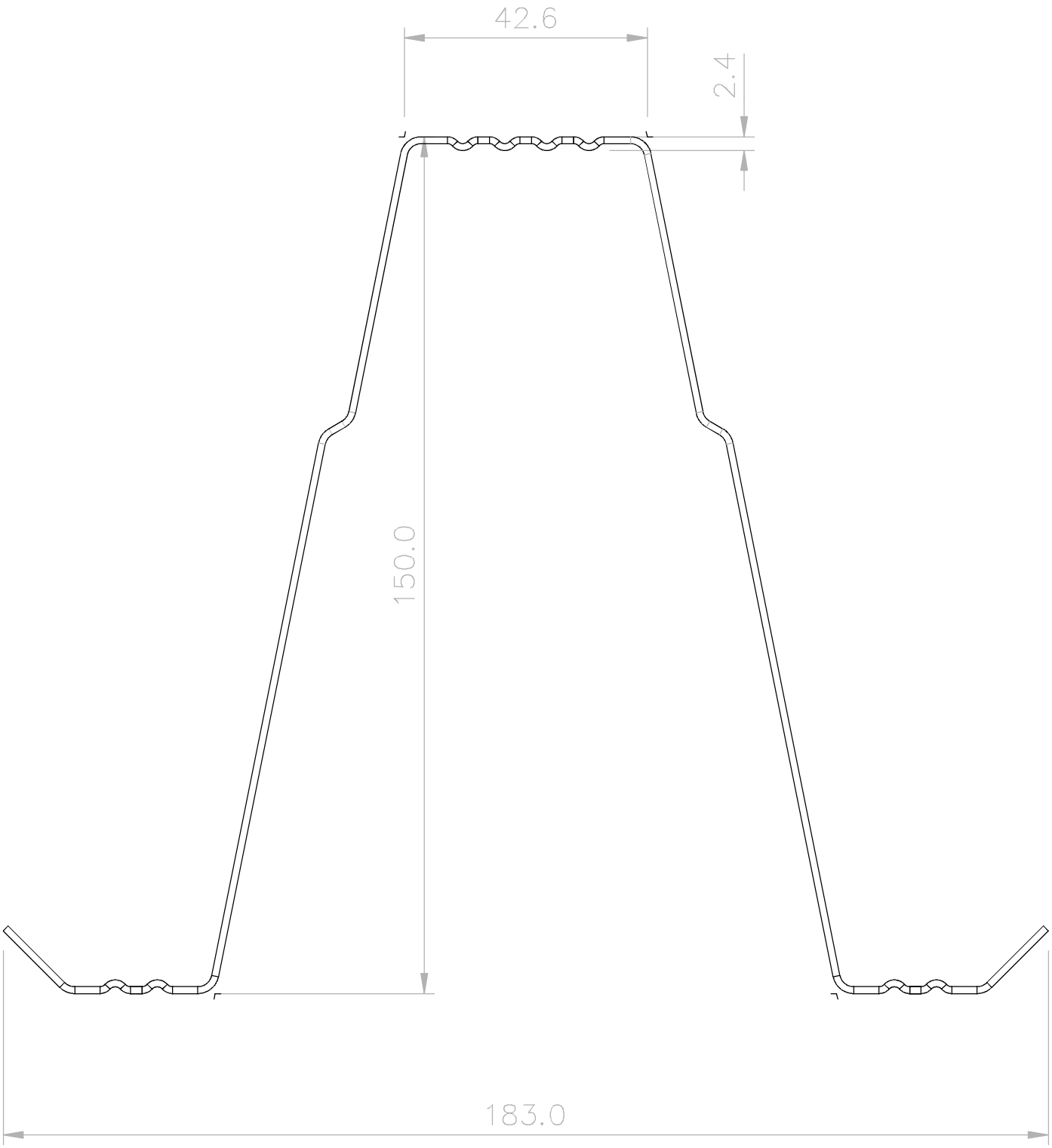
ALL DIMENSIONS ARE IN mm. – UNLESS OTHERWISE STATED. DO NOT SCALE – IF IN DOUBT, ASK.

SCALE: 1:1

ROLLFORMING SERVICES LTD
18b Ormiston Road, East Tamaki
Auckland, New Zealand.

DWG. No. 212/PROFb

A4

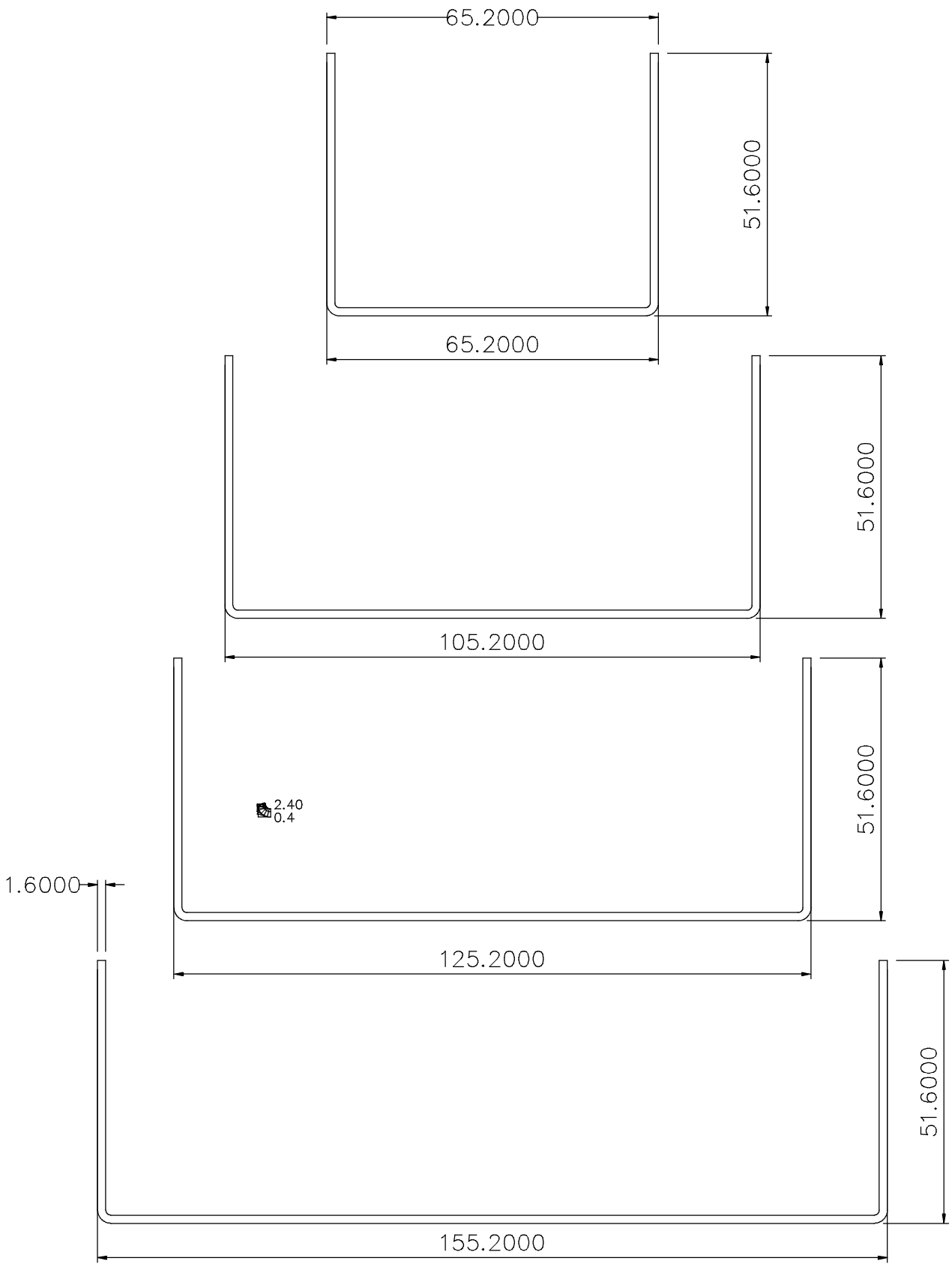


ISSUE	NOTES	DATE

TOLERANCES XX = ± 1.0 XX.X = ± 0.1 XX.XX = ± 0.03	TITLE: 150mm TOP HAT		ROLLFORMING SERVICES LTD 18b Ormiston Road, East Tamaki Auckland, New Zealand. COPYRIGHT ROLLFORMING SERVICES LTD ©
	MATERIAL: 0.95 – 1.15	STRIP WIDTH:	
	FINISH: GALV.		
STANDARD TOLERANCES UNLESS OTHERWISE STATED	DRAWN: T. CORNWALL	23/9/04	ALL DIMENSIONS ARE IN mm. – UNLESS OTHERWISE STATED. DO NOT SCALE – IF IN DOUBT, ASK.
	CHECKED:		
	APPROVED:		SCALE: 1:1

DWG. No. 212/PROFc

A4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