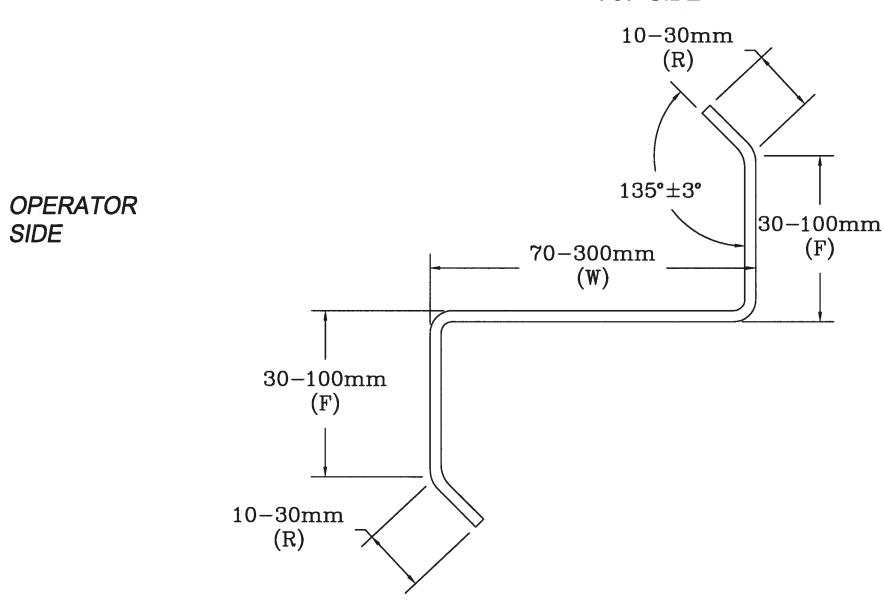
TOLERANCES, DIMENSIONS, & MATERIAL SPECIFICATIONS ON THIS DRAWING SUPERCEDE ALL OTHER DOCUMENTS.

TOP SIDE



TOLERANCES UNLESS OTHERWISE SPECIFIED:

ANGULAR ±2° FLARE 2T MAX PER SIDE TWIST 6.35mm (1/4") OVER 3m (10FT), 12.7mm (1/2") MAX (LAYING UNDER ITS OWN WEIGHT) BOW & CAMBER 6.35mm (1/4") PER 3m (10FT),12.7mm (1/2") MAX. PROFILE TOLERANCES TO BE MEASURED AT A MINIMUM 300mm (12") FROM THE END ALL OTHER TOLERANCES AS PER EN 10162

1		
2		
REV	DATE	REVISION DESCRIPTION

	APPROVAL SIGNATURE	DATE
ROLL TOOLING MANAGER		
QUALITY		
PROJECT LEADER		
CUSTOMER		

W		R
70-100	30-50	10
100-300	50-65	13-17
150-300	65-75	13-23
150-300	75-100	13-30

FLANGE HEIGHT MAY NOT EXCEED 50% OF THE WEB WIDTH.

MECHANICAL PROPERTIES OF MATERIAL:-

MATERIAL= HOT ROLL STEEL, GALVANIZED STEEL THICKNESS= 0.8mm to 3.2mm YIELD STRENGTH = 340-550 MPA Max

FINAL STRIP WIDTH WILL BE DETERMINED AFTER TESTING INSIDE BEND RADIUS 3.5mm REF CUSTOMER TO SUPPLY DEFECT FREE MATERIAL SUCH AS AS OIL CANNING, WAVINESS, CAMBER ETC

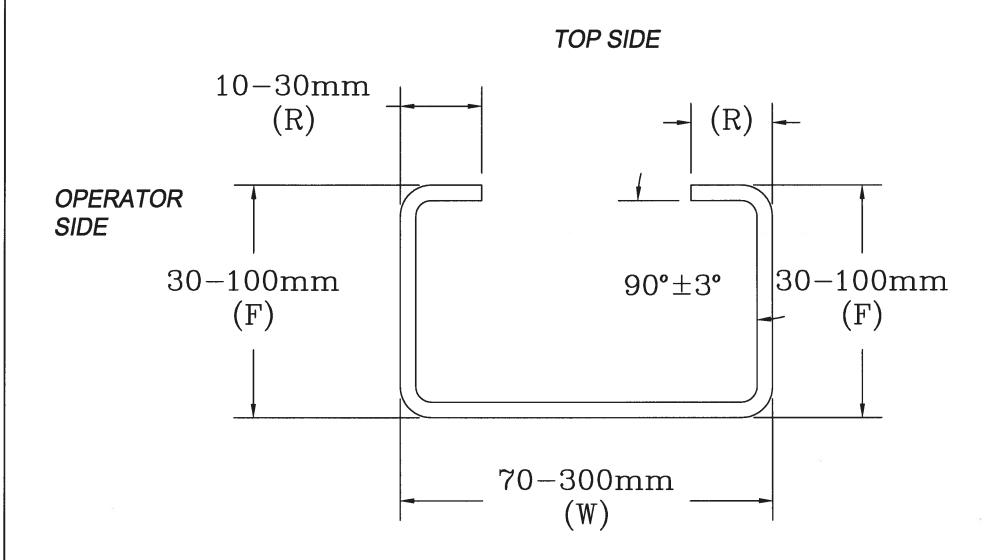


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90	054-PD-02
DRAWING NO.	SHEET
DRAWN: JAIVIR	REVISION:
DATE: 07-12-2015	CHECKED: C.SINGH
SCALE: 1/1	DESIGNED: C.SINGH
TITLE: Z-SECTION	

TOLERANCES, DIMENSIONS, & MATERIAL SPECIFICATIONS ON THIS DRAWING SUPERCEDE ALL OTHER DOCUMENTS.

	APPROVAL SIGNATURE	DATE
ROLL TOOLING MANAGER		
QUALITY		
PROJECT LEADER		
CUSTOMER		



TOLERANCES UNLESS OTHERWISE SPECIFIED:

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BOW & CAMBER 6.35mm (1/4") PER 3m (10FT),12.7mm (1/2") MAX.
PROFILE TOLERANCES TO BE MEASURED AT A MINIMUM 300mm (12") FROM THE END
ALL OTHER TOLERANCES AS PER EN 10162

1		
2		
REV	DATE	REVISION DESCRIPTION

W	F	R
70-100	30-50	10
100-300	50-65	13-17
150-300	65-75	13-23
150-300	75-100	13-30

FLANGE HEIGHT MAY NOT EXCEED 50% OF THE WEB WIDTH.

MECHANICAL PROPERTIES OF MATERIAL:-

MATERIAL= HOT ROLL STEEL, GALVANIZED STEEL THICKNESS= 0.8mm to 3.2mm
YIELD STRENGTH = 340-550 MPA Max

FINAL STRIP WIDTH WILL BE DETERMINED AFTER TESTING INSIDE BEND RADIUS 3.5mm REF
CUSTOMER TO SUPPLY DEFECT FREE MATERIAL SUCH AS AS OIL CANNING, WAVINESS, CAMBER ETC



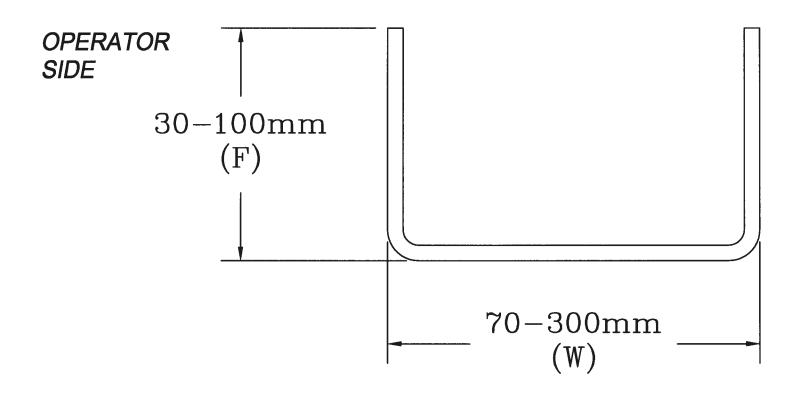
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DRAWN: JAIVIR		REVISION:	
DATE: 07-12-2015		CHECKED: C.SINGH	
SCALE: 1/1		DESIGNED: C.SINGH	
TITLE: C-SECTION			
		<u>. </u>	

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	APPROVAL SIGNATURE	DATE
ROLL TOOLING MANAGER		
QUALITY		
PROJECT LEADER		
CUSTOMER		

TOP SIDE



TOLERANCES UNLESS OTHERWISE SPECIFIED:

ANGULAR ±2° FLARE 2T MAX PER SIDE
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PROFILE TOLERANCES TO BE MEASURED AT A MINIMUM 300mm (12") FROM THE END
ALL OTHER TOLERANCES AS PER EN 10162

1		
2		
REV	DATE	REVISION DESCRIPTION

W	F
70-300	40-50
100-300	30-100

MECHANICAL PROPERTIES OF MATERIAL:-

MATERIAL= HOT ROLL STEEL, GALVANIZED STEEL THICKNESS= 0.8mm to 3.2mm
YIELD STRENGTH = 340-550 MPA Max

FINAL STRIP WIDTH WILL BE DETERMINED AFTER TESTING INSIDE BEND RADIUS 3.5mm REF
CUSTOMER TO SUPPLY DEFECT FREE MATERIAL SUCH AS AS OIL CANNING, WAVINESS, CAMBER ETC

	SATE MACHINERY LIMITED
-	351 PASSMORE AVENUE TORONTO, ON M1V 3N8 CANADA

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9054-PD-03	
DRAWING NO.	SHEET
DRAWN: JAIVIR	REVISION:
DATE: 07-12-2015	CHECKED: C.SINGH
SCALE: 1/1	DESIGNED: C.SINGH
TITLE: U-SECTION	

SAMCO DOUBLE DUPLEX PURLINMASTER ROLLFORMING LINE FOR CEE & ZEE W/FLAT WEB. PRE-PUNCH/PRE-CUT ROLLFORMING LINE-- NO CUT-OFF DIES/INSERTS TO CHANGE OR MAINTAIN -- PRE-CUT ROLLFORMING LINE -- MORE EFFECTIVE & ECONOMICAL SOLUTIONS AS COMBINING PUNCH/CUT-OFF IN THE SAME PRESS.

PRODUCTS: CEE (Lipped channel) & ZEE (Lipped channel) (all w/flat web). Upto 3.2 mm Thickness.

PRODUCT WIDTHS: 70 MM to 300 MM Max.

PRODUCT FLANGES: Equal leg heights, 30 MM to 100 MM Max.

PRODUCT LIP RETURN: Equal on both lips, 10 MM to 30 MM depending on the width and flange height combination.

MATERIAL: HOT ROLL STEEL, or GALVANISED STEEL MATERIAL THICKNESS: 0.8 MM to 3.2 MM MATERIAL YIELD STRENGTH: 550 Mpa Max.

FEATURES:

High Speed Pre-Punch/Cut-Off Press System with adjustable punches. We provide the Punch Pattern for all product range.

DOUBLE DUPLEX Type Roll Former with , variable speed up to 30 M/Min Does not require any Roll Tool Changes. Web changes using Handwheels.

Quick Web Width changes via rotation of Handwheel Quick Leg Height changes with Handwheel & Side rolls. CEE to ZEE change by rotation of Lever.

Dedicated High Quality tool steel roll tooling for extended tooling life.

Roll Coolant system for longer tooling life and reduced pick up contaminants on the rolls. Plug and Play capability with electrical quick disconnects for easy installation and maintenance.

Item Description	Qty
CONCLE ENDED ANGONED & TON	1
SINGLE-ENDED UNCOILER, 5 TON	1
PEELER TABLE & HOLD DOWN ARM	1
POWERED FLATTENER, 9 ROLLS DESIGN	1
LOOP CONTROL SYSTEM, LASER SENSOR	1
THREADING TABLES (PIT COVER)	1
SERVO-ROLL FEEDER, DIGITAL ACCURACY	1
PRE PUNCH/PRE CUT PRESS SYSTEM	1
LENGTH CONTROL SYSTEM	1
LAUNCHING CONVEYOR	1
PURLINASTER DUPLEX TYPE ROLLFORMER 16 STATIONS	1
ROLL TOOLING, QUALITY TOOL STEEL	1
ELECTRIC INTEGRATION & CONTROLS	1
HYDRAULICS & INTEGRATION	1
TESTING & TRY-OUT AT SAMCO INDIA	1
OPERATORS TRAINING	1

DOCUMENTATION PACKAGE

RUN OUT- EXIT TABLE

WARRANTY UP TO 12 MONTHS

1

PRODUCT SPECIFICATIONS

PRODUCTS: CEE (Lipped channel) & ZEE (Lipped channel) (all w/flat web)

CEE PRODUCT WIDTHS: 70 MM to 300 MM

CEE PRODUCT FLANGES: Equal leg heights, 30 MM to 100 MM

CEE PRODUCT LIP RETURN: Equal on both lips, 10 MM to 30 MM depending on the width and flange height combination.

Punching Pattern Cee products:

Web slots QTY= 2, Slot sizes-To be provided by us, Slot center distance variable depending upon the Web Size-to be informed by us.

Flange slots: Punching on the Flanges (Punching Pattern will be provided by AIRCON). Slot center distance variable depending upon the Web Size-to be informed by us.

ZEE PRODUCT WIDTHS: 100 MM to 300 MM

ZEE PRODUCT FLANGES: Equal leg heights, 30 MM to 100 MM

LIP RETURN: Equal lip returns, 10 MM to 30 MM depending on the width and flange height combination. Punching Pattern Zee products:

Web slots QTY= 2, Slot sizes: To be provided by the Customer along with the Sign Off Drawings

Flange slots: Punching on the Flanges as per (drawings will be provided by AIRCON). Slot center distance variable depending upon the Web Size-to be informed by us.

Flange holes location: To be Informed by us.

Products length: minimum length 1500 MM, maximum length 7000 MM

Flange height may not exceed 50% of the web width

MATERIAL: HOT ROLL STEEL or GALVANISED STEEL MATERIAL

THICKNESS: 3.2 MM & Minimum 0.8MM

YIELD STRENGTH: 550 Mpa- Max.

LINE SPECIFICATIONS

PURLINMASTER (DOUBLE DUPLEX TYPE) ROLLFORMER FOR CEE & ZEE PURLINS

RAW MATERIAL SPECIFICATIONS

MATERIAL: HOT ROLL STEEL or PRE GALVANISED STEEL

MATERIAL THICKNESS:0.8 MM to 3.2 MM

MATERIAL YIELD STRENGTH- 550 Mpa Max.

<u>Note:</u> Customer to provide consistent input material for quality parts. This is required to meet drawing tolerances.

COIL SPECIFICATIONS

Coil weight: 5,000 kg

Coil Width: maximum 440 MM Coil I.D.: nominal 508 MM Coil O.D.: maximum 1,825 MM

PRODUCT LENGTHS: Minimum length 1500 MM, maximum length 7000 MM

FLOOR PIT: Required -- a floor pit is recommended to reach maximum line speeds

ROLLFORMER SPEED: 0 to 30 M/Min VARIABLE SPEED depending on the punching pattern. Note: Line speed is not the same as production speed. Actual production rate is affected by factors such as number of product size changes, hole pattern selected, product lengths, material thickness changes, coil changes, maintenance and quality checking downtime, factory layout efficiencies, etc.

TOLERANCES:-Length tolerance: will not exceed +/- 2.0 MM (part-to-part)

Other Tolerances:

Flare: 2T per side Angles: +/- 2 degrees

Twist: 6.35 MM over 3 Meters* as per IS standard

* Twist is measured with the Zee laying on a flat surface under its own weight.

As per Applicable IS Standard

LINE DIRECTION: From Left to Right.

POWER REQUIREMENTS:

SAMCO will build Electrical Package to suit customer's standard 24VDC on controls Air Supply 6-8bar (100 PSI) clean & dry.