



**SOROC
PRODUCTS**

Thermoforming a future through Innovation



**Richfield
Industries**



Standard Product Catalog

2019

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ADVANTAGES OF TPU...

Thermoplastic Polyurethane (TPU) is used primarily to protect sharp and/or abrasive parts from damage and marking due to contact with HDPE surfaces by covering points of contact and areas of potential erosion.

Key advantages of TPU:

- **High Abrasion Resistance**
- **Excellent Low-temperature and Impact Strength**
- **Good Flexibility Over A Wide Temperature Range**
- **Recyclability**
- **Shock Absorption**
- **Non-Brittle**
- **Resilience To Oils, Greases, and Numerous Solvents (High Chemical Resistance)**

DUROMETERS AVAILABLE*

We offer:

- **Shore-95A**
 - **Softest material**

 - **Shore-90A**
 - **Softer material**

 - **Shore-60D**
 - **Harder material**
-

Notes To Understand Shore Durometer Hardness Specifications

- A “Shore Durometer” is a unit of measure assigned to the hardness of a material, specifically for polymers, elastomers, and rubbers.

- Type “A” materials are typically more flexible.

- Type “D” materials are typically more rigid and inelastic.

- The higher the number, within a specific type (A, D, etc...), the softer the material will be.



SOROC
PRODUCTS

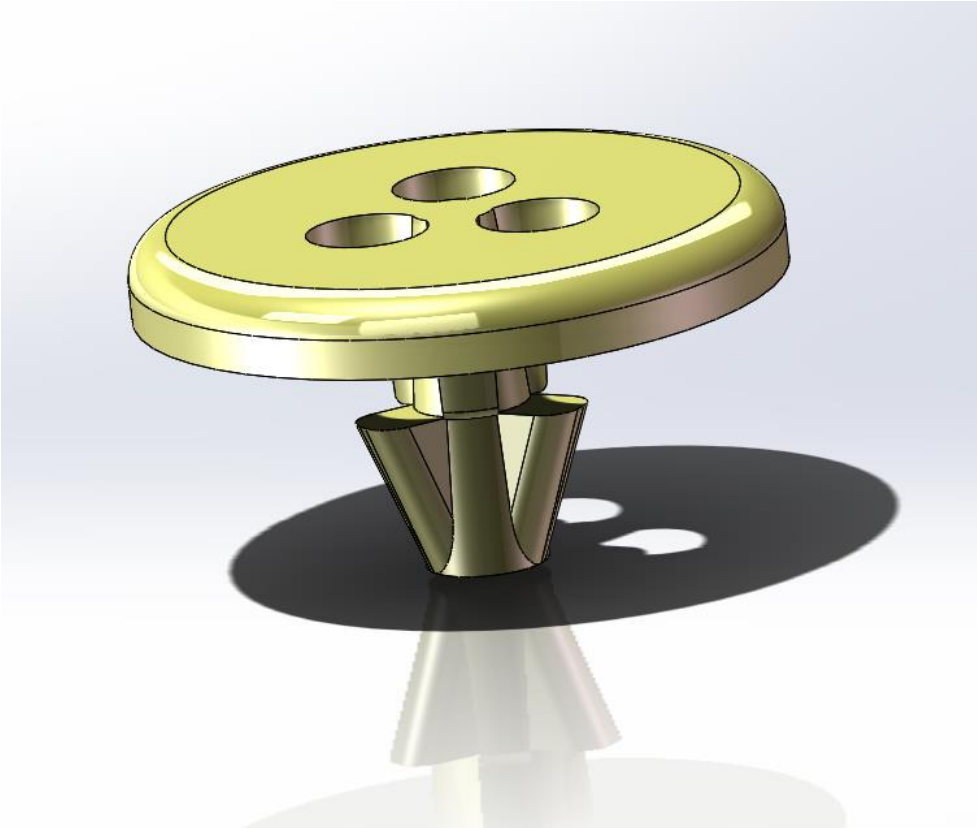
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ROUND TPU'S (ALL)

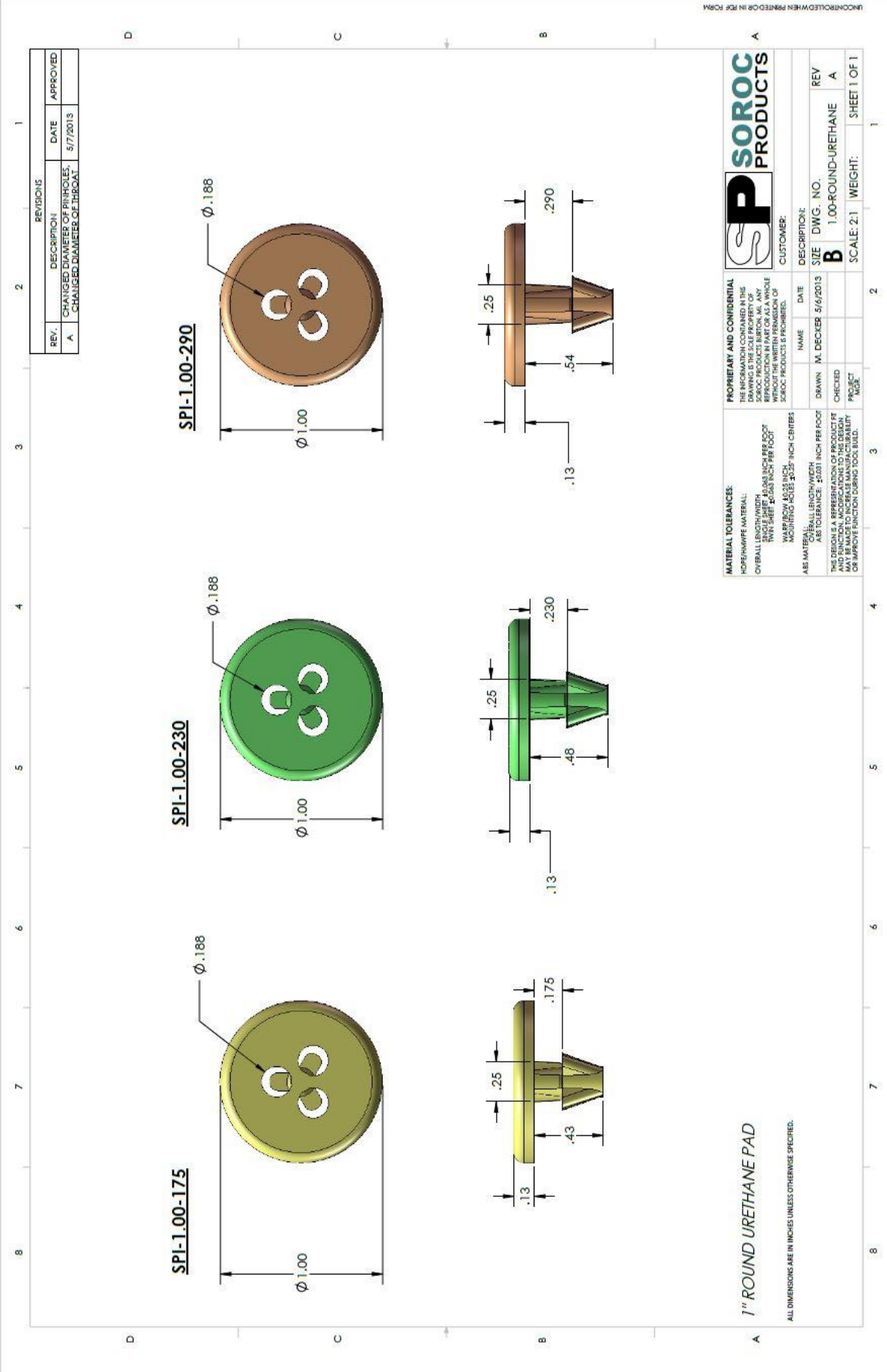
Product	Throat Length
SPI – 1.0 – 175	0.175"
SPI – 1.0 – 230	0.230"
SPI – 1.0 – 290	0.290"
SPI – 1.125 – 175	0.175"
SPI – 1.125 – 230	0.230"
SPI – 1.125 – 290	0.290"
SPI – 1.5 – 175	0.175"
SPI – 1.5 – 230	0.230"
SPI – 1.5 – 290	0.290"
SPI – 2.125 – 230	0.230"

ROUND 1.00" DIAMETER

See PDF on following page



NAME	Round 1.00" Dia			
	Throat Length	Length	Width	Height
SPI – 1.0 – 175	0.175"	1"	1"	0.13"
SPI – 1.0 – 230	0.230"	1"	1"	0.13"
SPI – 1.0 – 290	0.290"	1"	1"	0.13"



REV. A			REVISIONS		
REV.	DESCRIPTION	DATE	APPROVED		
A	CHANGED DIAMETER OF HOLES, CHANGED DIAMETER OF THREAD.	5/7/2013			

SPI-1.00-290

SPI-1.00-230

SPI-1.00-175

SP		SOROC PRODUCTS	
<p>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE PROPERTY OF SOROC PRODUCTS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOROC PRODUCTS IS PROHIBITED.</p>			
NAME	DATE	DESCRIPTION	REV
M. DECKER	5/6/2013	1.00-ROUND-URETHANE	A
DRAWN	CHECKED	SCALE: 2:1	SHEET 1 OF 1

MATERIAL TOLERANCES:
 HOPEWAKE MATERIAL:
 OVERALL LENGTH/WIDTH: ±.005 INCH PER FOOT
 OVERALL THICKNESS: ±.005 INCH PER FOOT
 HOLE SIZE: ±.005 INCH PER FOOT
 MOUNTING HOLES: ±.025" INCH CENTER.

ABS MATERIAL:
 OVERALL LENGTH/WIDTH: ±.001 INCH PER FOOT
 ABS TOLERANCE: ±.001 INCH PER FOOT

THIS DESIGN IS A REPRESENTATION OF PRODUCT FIT AND FUNCTION. MODIFICATIONS TO THE DESIGN AND FUNCTION ARE PERMITTED TO IMPROVE PRODUCT OR IMPROVE FUNCTION DURING TOOL BUILD.

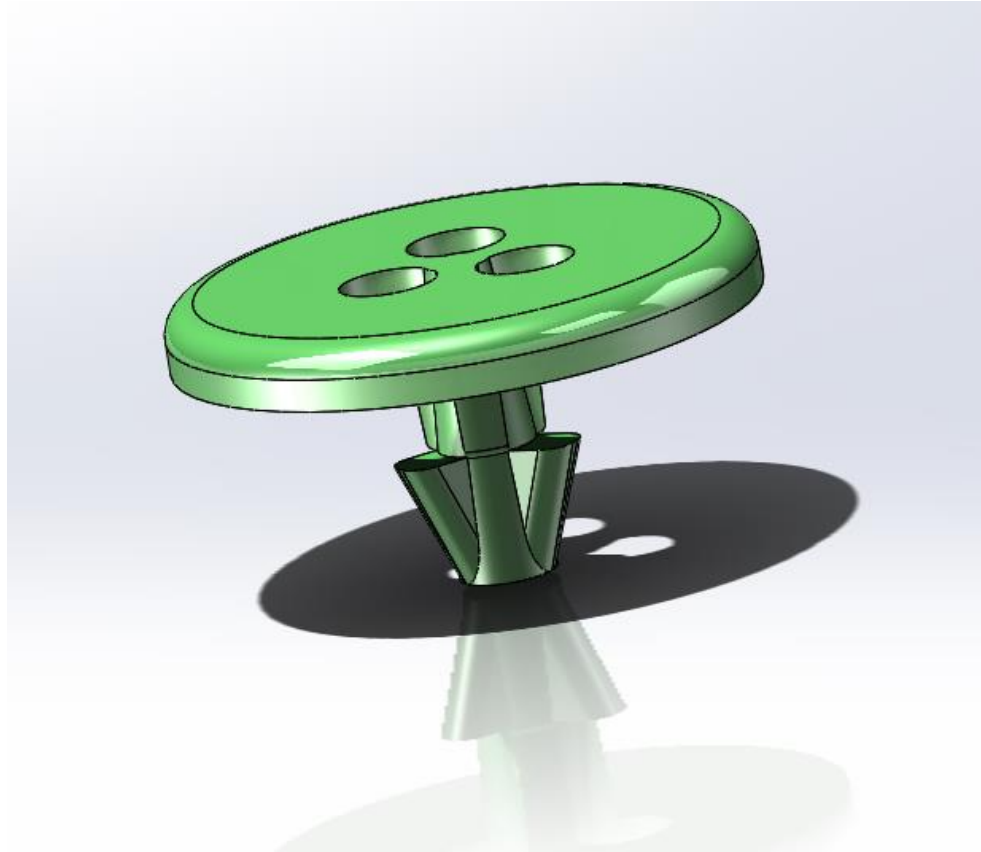
1" ROUND URETHANE PAD

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

UNCONTROLLED WHEN PRINTED OR IN PDF FORM

ROUND 1.125" DIAMETER

See PDF on following page

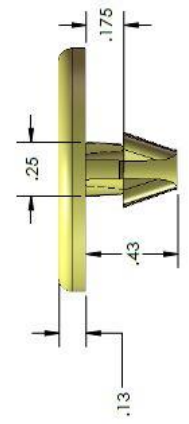
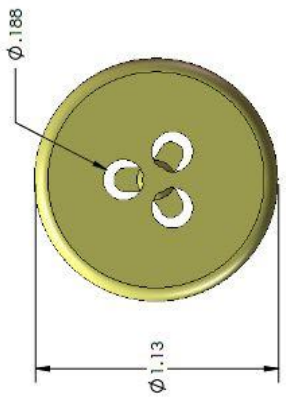


NAME	Round 1.125" Dia			
	Throat Length	Length	Width	Height
SPI – 1.125 – 175	0.175"	1.125"	1.125"	0.13"
SPI – 1.125 – 230	0.230"	1.125"	1.125"	0.13"
SPI – 1.125 – 290	0.290"	1.125"	1.125"	0.13"

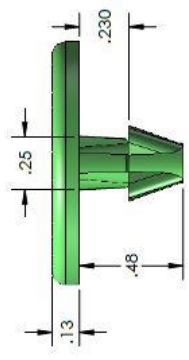
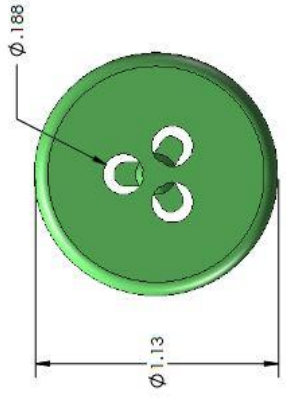
1 2 3 4 5 6 7 8

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A.	CHANGED DIAMETER OF PINHOLES; CHANGED DIAMETER OF THROAT	5/7/2013	

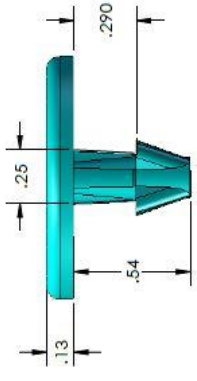
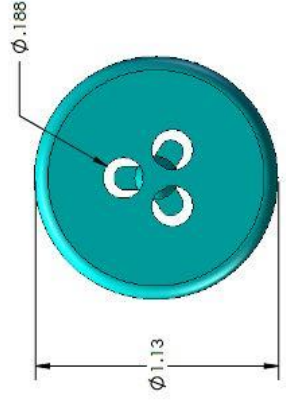
SPI-1.125-175



SPI-1.125-230



SPI-1.125-290



1-1/8" ROUND URETHANE PAD

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

SP **SOROC PRODUCTS**

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MATERIAL TOLERANCES:
HOLE/SHAFT MATERIAL:
OVERALL LENGTH AND/OR SINGLE HOLE: ±.005 INCH PER FOOT
PIN DIA: ±.0005 INCH PER FOOT
MOUNTING HOLES: ±.005" INCH CENTERS

ABS MATERIAL:
OVERALL LENGTH/TORQUE ABS TOLERANCE: ±.001 INCH PER FOOT
FINISH: UNPOLISHED
AND FINISH: A REPRESENTATION OF FINISH TYPE AND FINISH IS FOR INFORMATION ONLY. IT MAY BE MADE TO INCREASE MANUFACTURABILITY OR IMPROVE FUNCTION (ROUND TOOL BUILD).

CUSTOMER: _____

NAME	M. DECKER	DATE	5/9/2013
DRAWN		SIZE	DWG: NO.
CHECKED		DESCRIPTION:	B 1.125-ROUND-URETHANE
PROJECT		SCALE:	2:1
		WEIGHT:	

REV A
SHEET 1 OF 1

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1 2 3 4 5 6 7 8

ROUND 1.50" DIAMETER

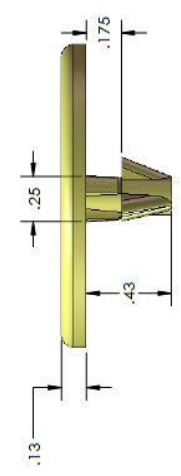
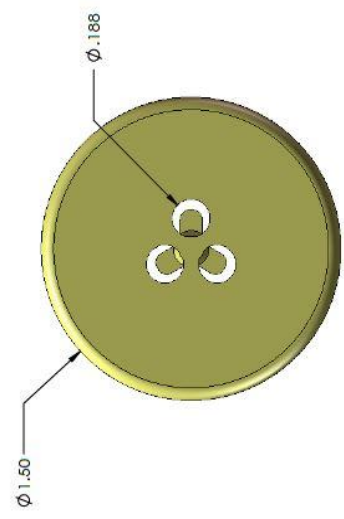
See PDF on following page



NAME	Round 1.50" Dia			
	Throat Length	Length	Width	Height
SPI – 1.50 – 175	0.175"	1.50"	1.50"	0.13"
SPI – 1.50 – 230	0.230"	1.50"	1.50"	0.13"
SPI – 1.50 – 290	0.290"	1.50"	1.50"	0.13"

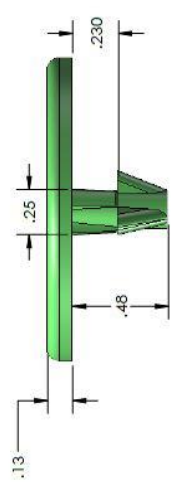
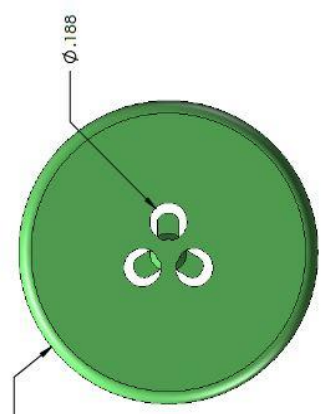
REV.	DESCRIPTION	DATE	APPROVED

SPI-1.50-175



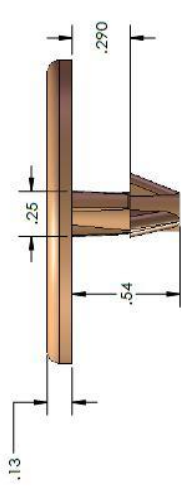
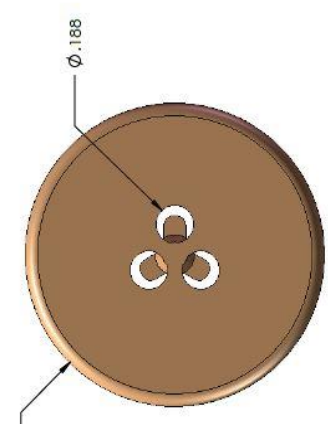
VOLUME = .22 CUBIC INCHES

SPI-1.50-230



VOLUME = .22 CUBIC INCHES

SPI-1.50-290



VOLUME = .23 CUBIC INCHES

MATERIAL TOLERANCES:
 PERFORMANCE MATERIAL:
 OVERBALL LENGTH TOLERANCE: ±.005 INCH PER FOOT
 OVERBALL LENGTH TOLERANCE: ±.005 INCH PER FOOT
 TWIN SHEET: ±.005 INCH PER FOOT

ABS MATERIAL:
 OVERBALL LENGTH TOLERANCE: ±.005 INCH PER FOOT
 OVERBALL LENGTH TOLERANCE: ±.005 INCH PER FOOT
 TWIN SHEET: ±.005 INCH PER FOOT

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SP SOROC PRODUCTS

CUSTOMER:

NAME	DATE	DESCRIPTION

SIZE | DWG. NO. | REV
B | 1.50 ROUND URETHANE

SCALE: 2:1 | WEIGHT: | SHEET 1 OF 1

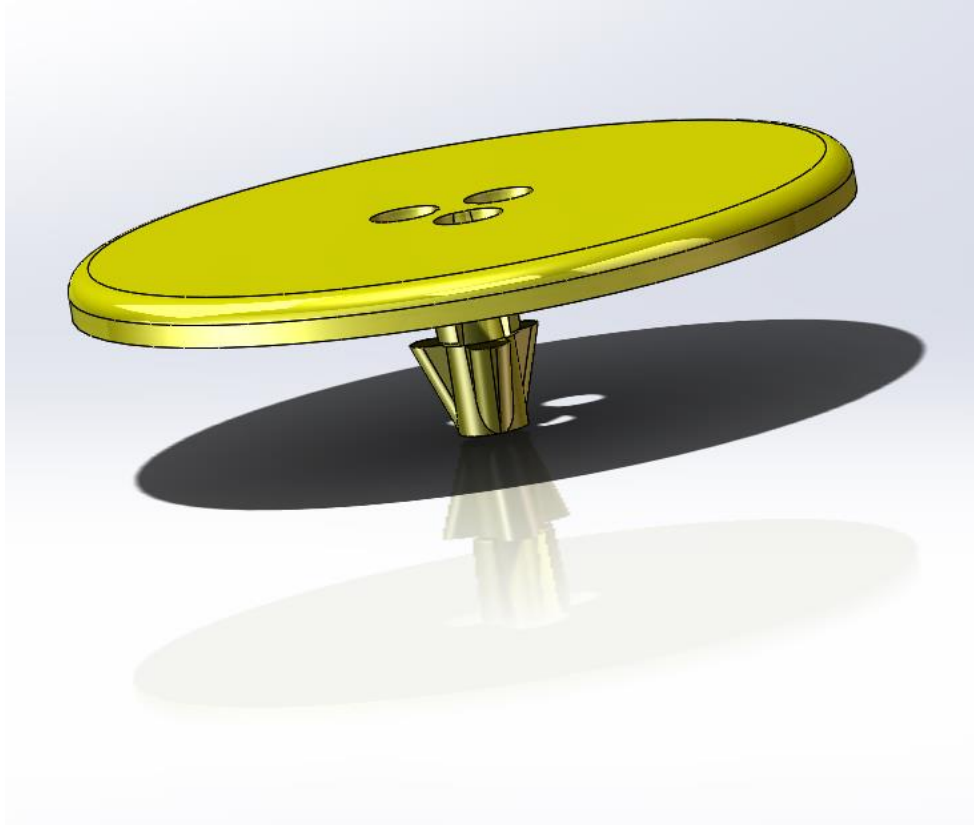
O:\Design\PLASTEC\PLASTEC URETHANES\1.50 ROUND

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

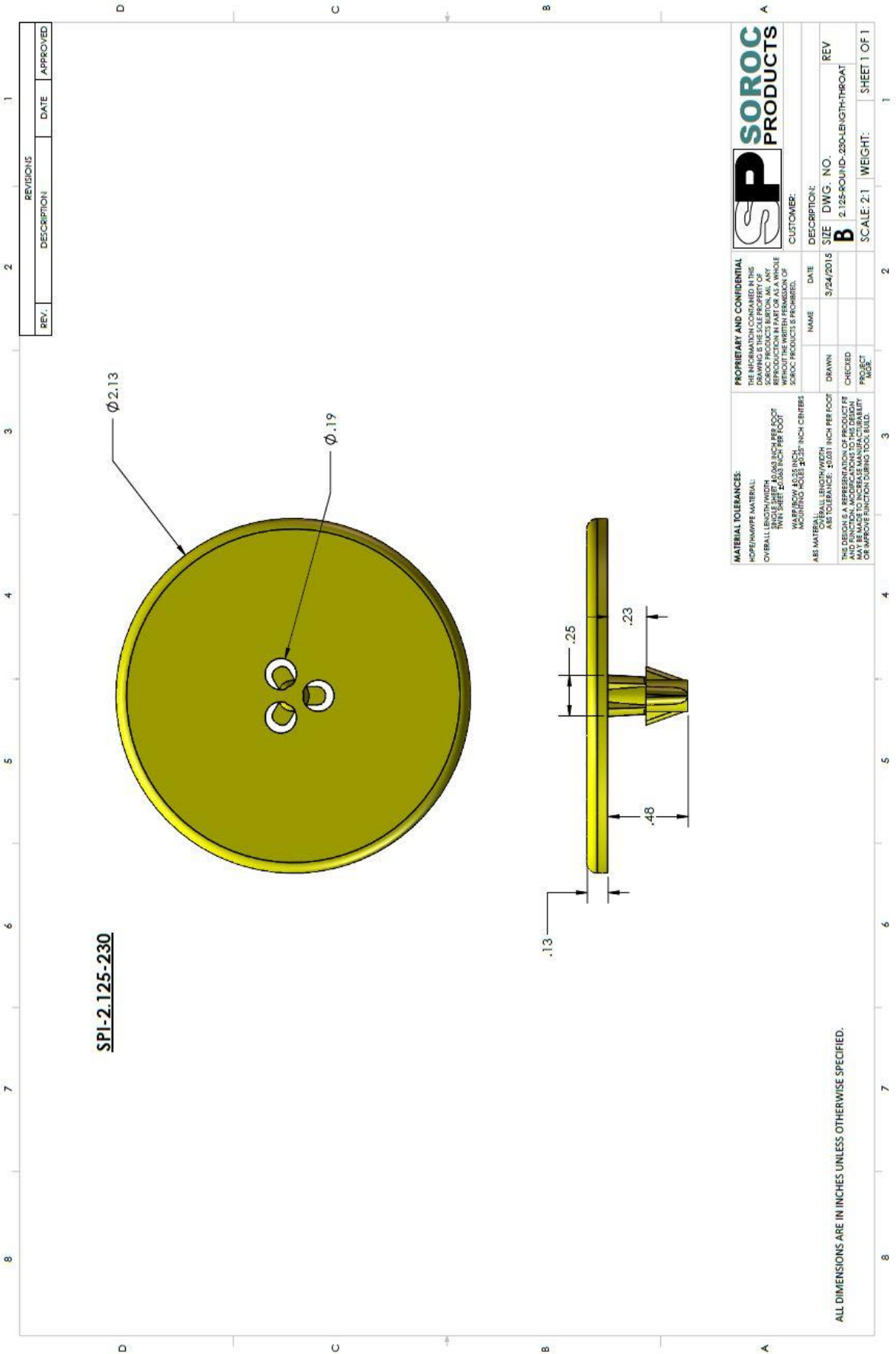
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ROUND 2.125" DIAMETER

See PDF on following page



NAME	Round 2.125" Dia			
	Throat Length	Length	Width	Height
SPI – 2.125 – 230	0.230"	2.125"	2.125"	0.13"



SPI-2.125-230

REV.	DESCRIPTION	DATE	APPROVED

SP SOROC PRODUCTS

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MATERIAL TOLERANCES:
 HOPE/IMPIPE MATERIAL:
 OVERBALL LENGTH (WIDTH) ±.001 INCH PER FOOT
 THIN SHEET ±.003 INCH PER FOOT
 WARP/BOW ±0.025 INCH
 MOUNTING HOLES ±0.025 INCH CRITERIA

ABS MATERIAL: 1.11 INCH PER FOOT
 ABS TOLERANCE: ±0.021 INCH PER FOOT

THE DESIGN IS A REPRESENTATION OF PRODUCT FIT AND FUNCTION. MODIFICATIONS TO THE DESIGN OR MATERIALS MAY BE NECESSARY TO IMPROVE FUNCTION DURING TOOL BUILD.

NAME	DATE	CUSTOMER
	9/24/2015	

DRAWN	CHECKED	PROJECT

DESCRIPTION:	SIZE	DWG. NO.	REV
	B	2.125-ROUND-230-LENGTH-THROAT	

SCALE:	2:1	WEIGHT:	SHEET 1 OF 1
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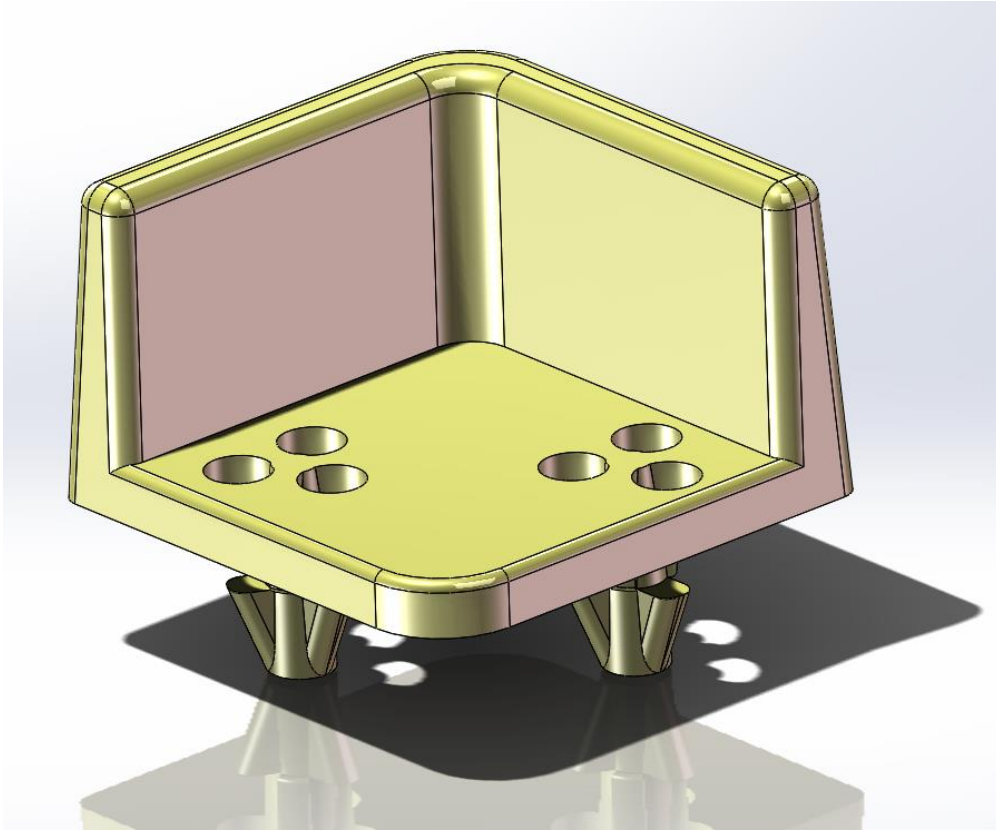
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

CORNER TPU'S (ALL)

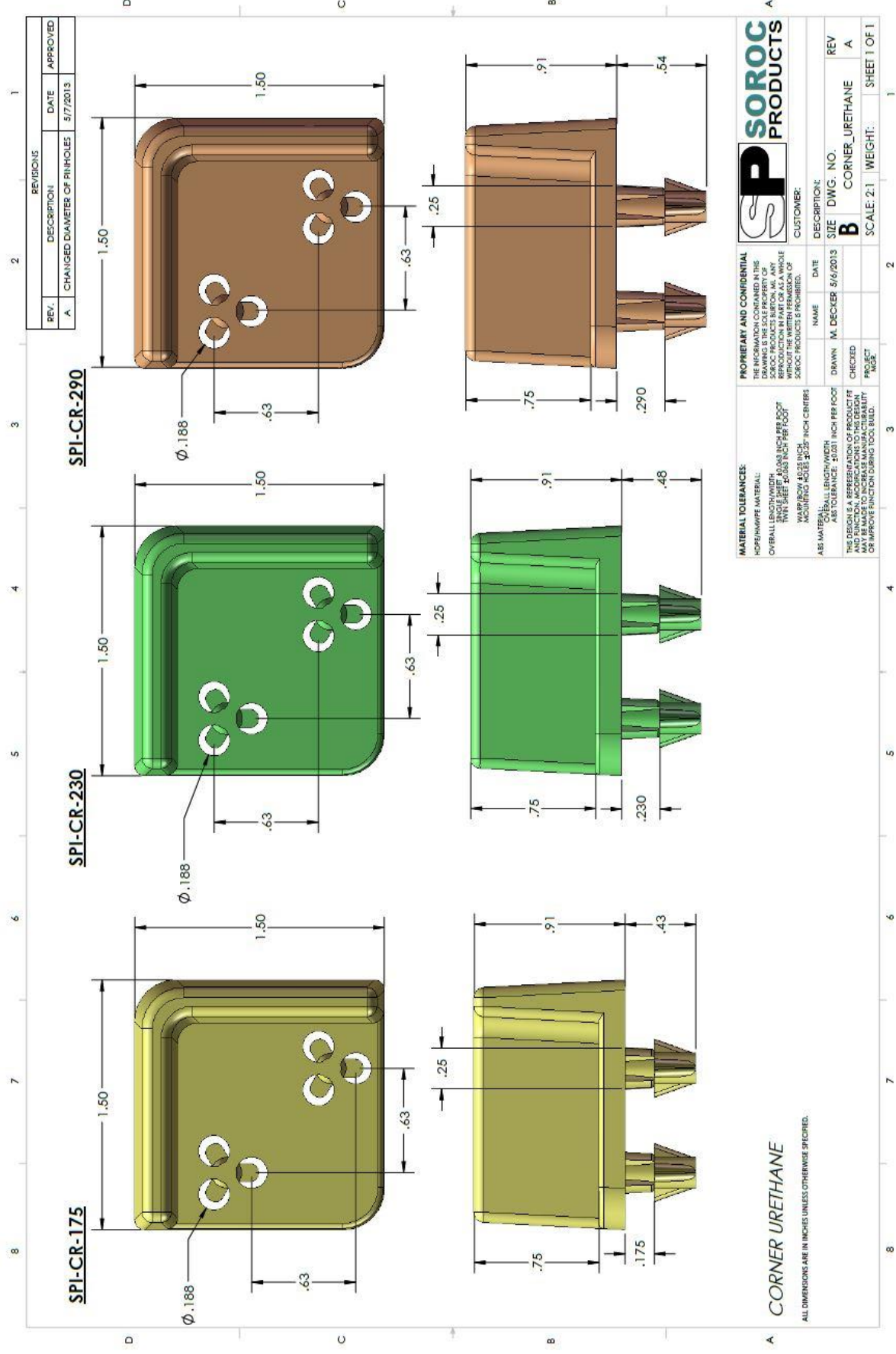
Product	Throat Length
SPI – CR – 175	0.175"
SPI – CR – 230	0.230"
SPI – CR – 290	0.290"

CORNER PAD (1.5" x 1.5")

See PDF on following page



NAME	Corner Pad			
	Throat Length	Length	Width	Height
SPI – CR – 175	0.175"	1.50"	1.50"	.91"
SPI – CR – 230	0.230"	1.50"	1.50"	.91"
SPI – CR – 290	0.290"	1.50"	1.50"	.91"



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	CHANGED DIAMETER OF RINHOLES	5/7/2013	

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MATERIAL TOLERANCES: HOPE/UR/URE MATERIAL: OVERALL LENGTH (WIDTH) THICKNESS (HEIGHT) HOLE POSITION (HOLE POSITION) HOLE SIZE (HOLE SIZE) HOLE POSITION (HOLE POSITION) HOLE SIZE (HOLE SIZE) HOLE POSITION (HOLE POSITION)		NAME: M. DECKER DATE: 5/6/2013	
ABS MATERIAL: CORNER LENGTH/WIDTH AST TOLERANCE: ±0.021 INCH PER FOOT		DRAWN BY: M. DECKER	
THIS DESIGN IS A REPRESENTATION OF PRODUCT IT MAY BE MADE TO INCREASE MANUFACTURABILITY OR IMPROVE FUNCTION DURING TOOL BUILD.		CHECKED BY: M. DECKER	
CORNER_URETHANE		PROJECT: MUSE	
SIZE: B		DWG. NO.: CORNER_URETHANE	
SCALE: 2:1		WEIGHT: SHEET 1 OF 1	

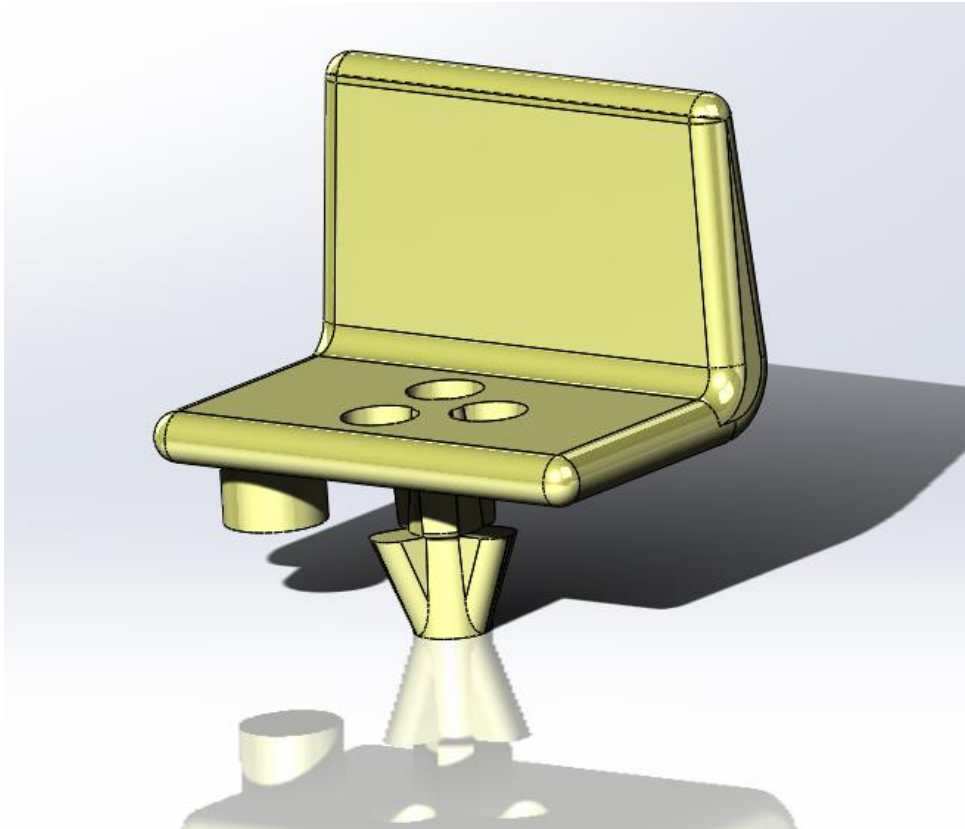
SOROC PRODUCTS		REV: A	
CORNER_URETHANE		DWG. NO.: CORNER_URETHANE	
SCALE: 2:1		WEIGHT: SHEET 1 OF 1	

L-SHAPED TPU'S (ALL)

Product	Throat Length
SPI – L – 175	0.175"
SPI – L – 230	0.230"
SPI – L – 290	0.290"
SPI – LR – 175	0.175"
SPI – LR – 230	0.230"
SPI – LR - 290	0.290"
MAC03679	0.220"

SINGLE BARB, L-SHAPED PAD (1.24" x 0.87")

See PDF on following page

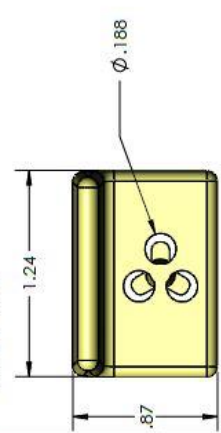


NAME	L Shaped			
	Throat Length	Length	Width	Height
SPI – L – 175	0.175"	1.24"	0.87"	.84"
SPI – L – 230	0.230"	1.24"	0.87"	.84"
SPI – L – 290	0.290"	1.24"	0.87"	.84"

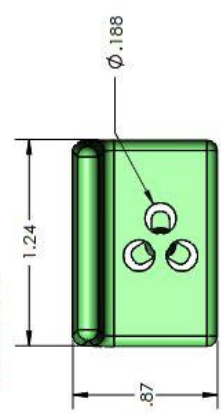
1 2 3 4 5 6 7 8

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	L-SHAPED DESIGNED BY TOOL MAKER. CHANGED DIAMETER OF PINHOLES. CHANGED DIAMETER OF THROAT.	5/17/2013	
B	ADDED .25 DIA X .175 BOSS TO UNDERNEATH OF PART	4/22/2014	

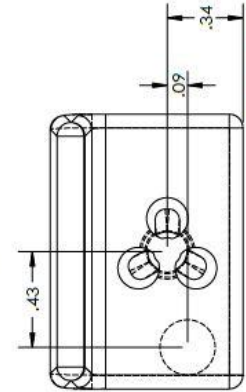
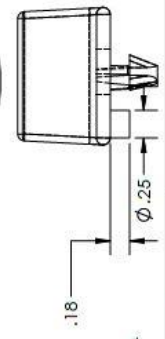
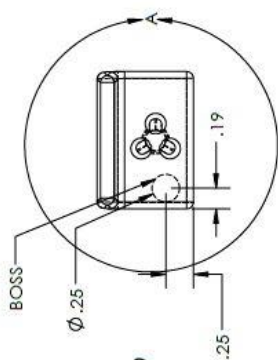
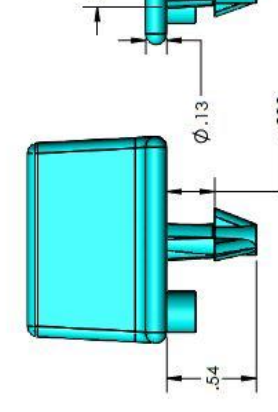
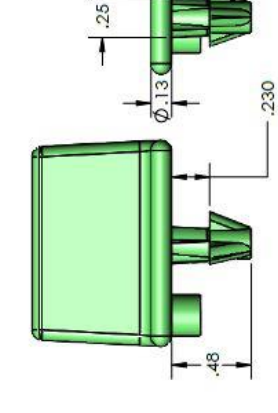
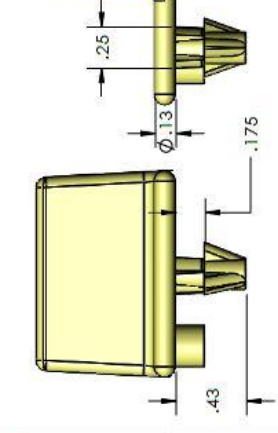
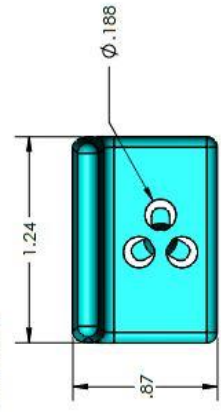
SPI-L-175



SPI-L-230



SPI-L-290



**L SHAPED URETHANE PAD
WITH BOSS**

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SOROC PRODUCTS

CUSTOMER: _____

NAME	DATE	DESCRIPTION	SIZE	DWG. NO.	REV
M. DECKER	5/6/2013	L-SHAPED_URETHANE	B		B

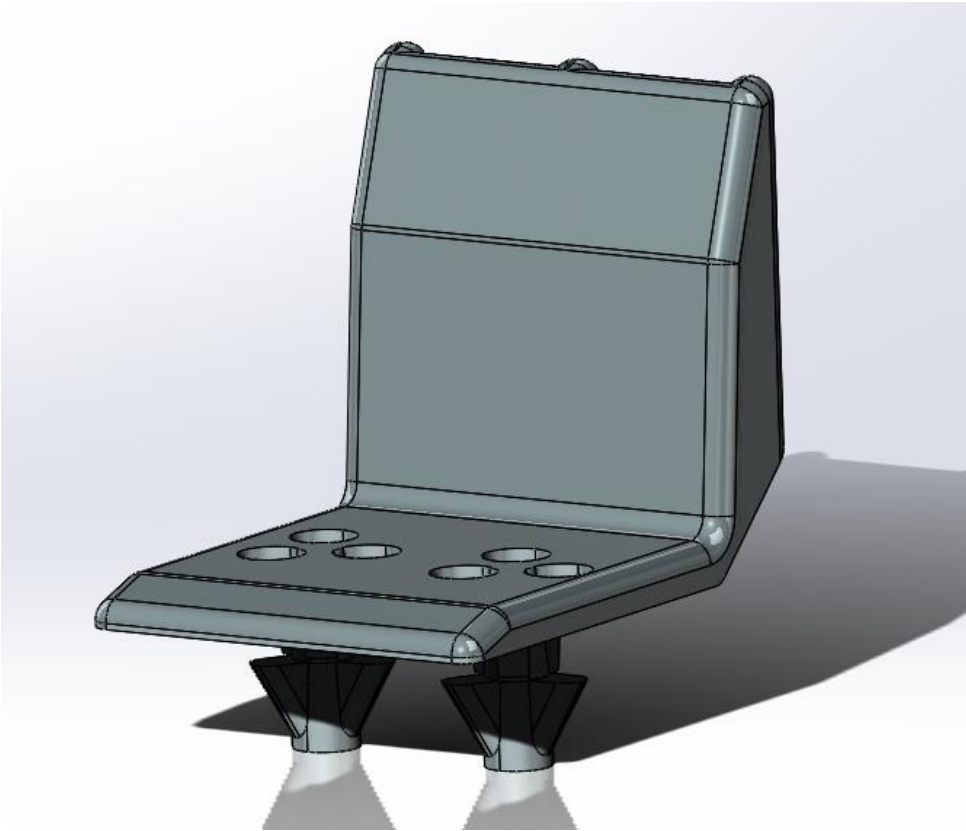
SCALE: 2:1 WEIGHT: _____ SHEET 1 OF 1

MATERIAL TOLERANCES:
 HOPEWIFE MATERIAL:
 OVERBALL LENGTH/WIDTH: .0021 INCH PER FOOT
 SINGLE SHEET: .0015 INCH PER FOOT
 MULTIPLE SHEETS: .0015 INCH PER FOOT
 MOTORWAY ASSES: .0035 INCH CENTERS

ASIS MATERIAL:
 OVERBALL LENGTH/WIDTH: .0021 INCH PER FOOT
 ASIS TOLERANCE: .0021 INCH PER FOOT
 AND DESIGN: A REPRESENTATION OF FACTORY AT
 THIS SCALE. DIMENSIONS OF FACTORY AT
 THIS SCALE MAY BE MADE TO INCREASE MANUFACTURABILITY
 OR IMPROVE FUNCTION DURING TOOL BUILD.

TWO BARB, L-SHAPED PAD (1.24" x 0.87")

See PDF on following page



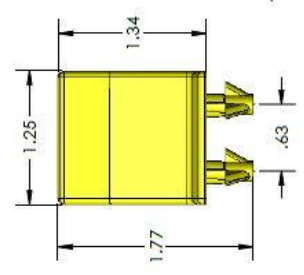
NAME	Double Barb, L Shaped			
	Throat Length	Length	Width	Height
SPI – LR – 175	0.175"	1.25"	1.60"	1.34"
SPI – LR – 230	0.230"	1.25"	1.60"	1.34"
SPI – LR – 290	0.290"	1.25"	1.60"	1.34"

REV.	DESCRIPTION	DATE	APPROVED

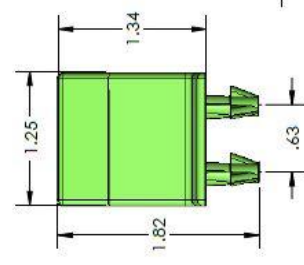
REV.	DESCRIPTION	DATE	APPROVED

REV.	DESCRIPTION	DATE	APPROVED

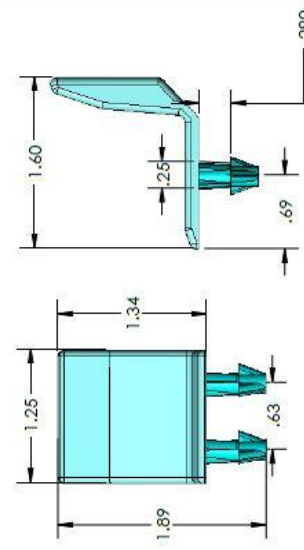
SPI-LR-175



SPI-LR-230



SPI-LR-290



SOROC PRODUCTS

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MATERIAL TOLERANCES:
 HOPEWAVE MATERIAL:
 OVERALL LENGTH WITHIN .005 INCH PER FOOT
 OVERALL WIDTH WITHIN .005 INCH PER FOOT
 THIN SHEET .003 INCH PER FOOT
 WARP/BOW .002 INCH
 MOUNTING HOLES .0025 INCH CIRCULAR

ABS MATERIALS:
 ALL DIMENSIONS:
 ABS TOLERANCE: ±.001 INCH PER FOOT

THIS DESIGN IS A REPRESENTATION OF PRODUCT FIT AND FUNCTION. MODIFICATIONS TO THE DESIGN AND FUNCTION ARE PERMITTED TO IMPROVE PRODUCTIVITY OR IMPROVE FUNCTION DURING TOOL BUILD.

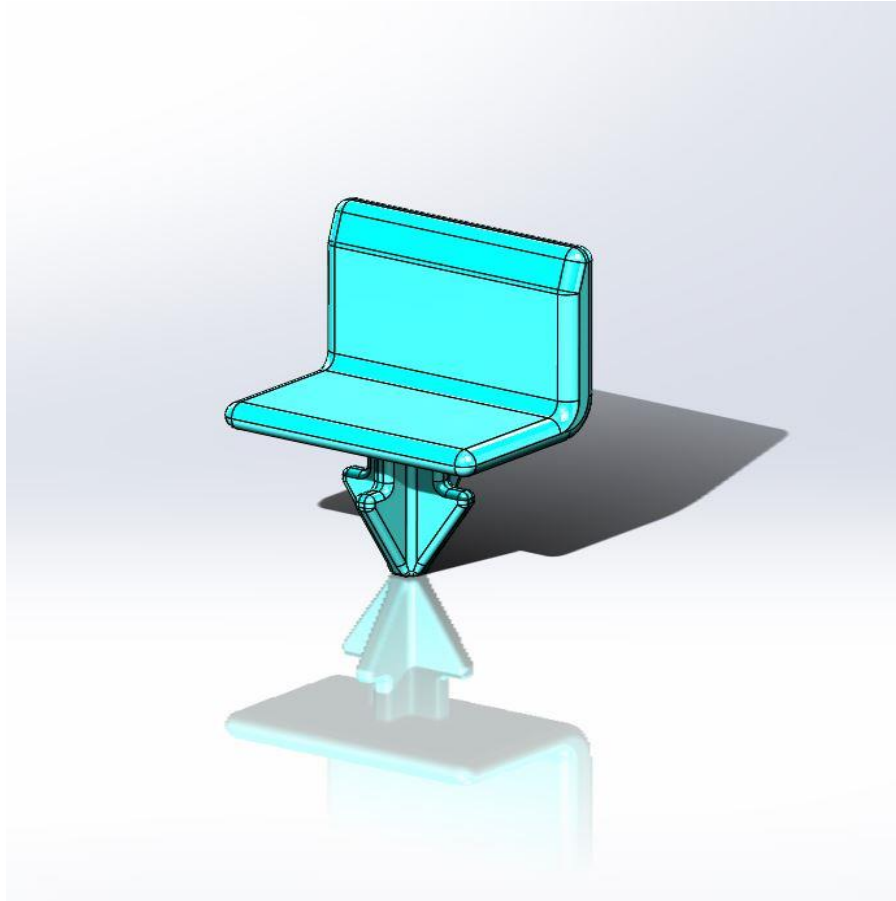
CUSTOMER:

NAME	DATE	DESCRIPTION:
	5/2/2016	SIZE DWG. NO. LR URETHANE
DRAWN	CHECKED	REV
PROJECT	MODE	B
SCALE: 1:1		WEIGHT: SHEET 1 OF 1

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

SINGLE LARGE BARB, L-SHAPED PAD (1.25" x 0.88")

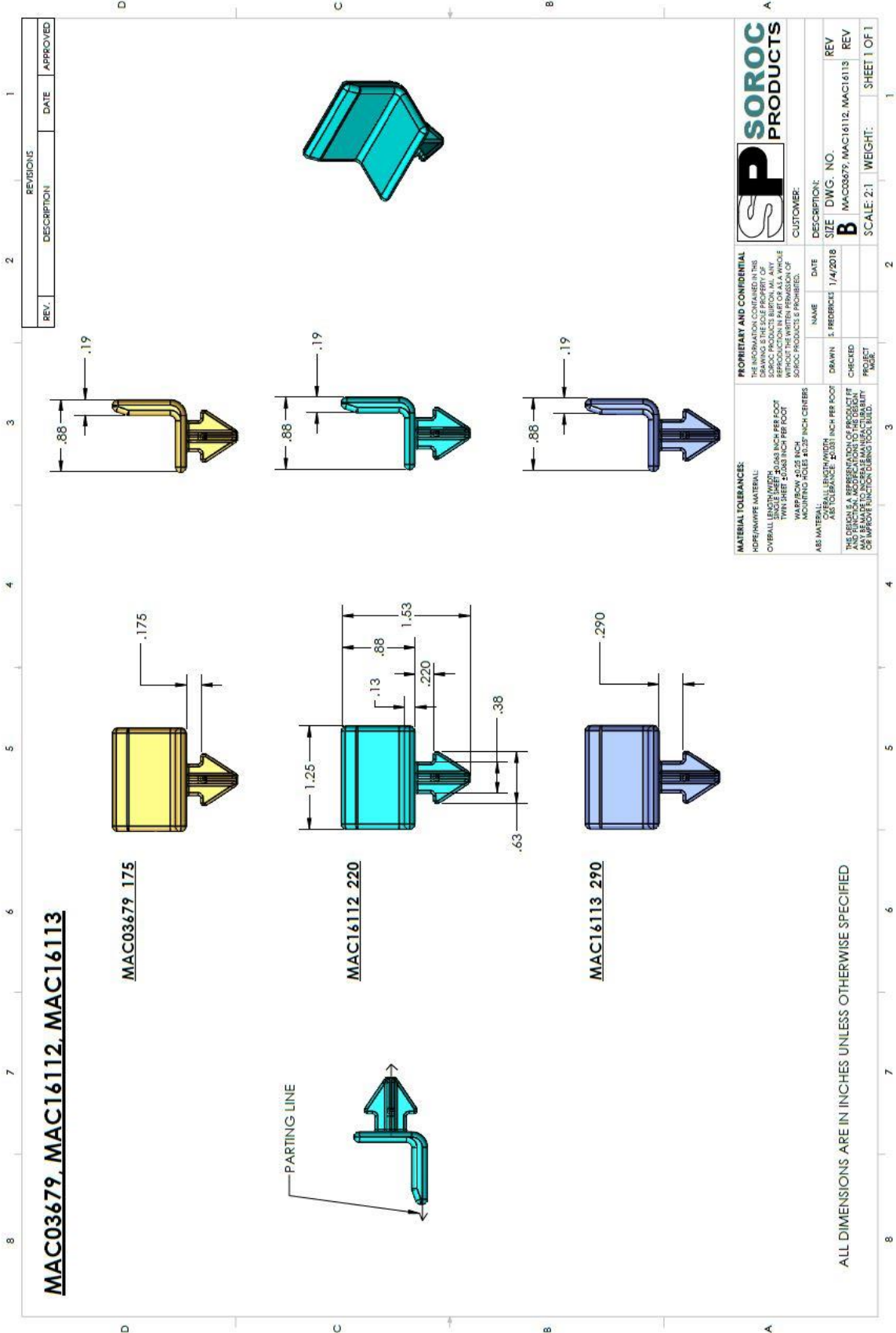
See PDF on following page



NAME	SINGLE BARB, L Shaped			
	Throat Length	Length	Width	Height
MAC03679_175	0.175"	1.25"	.88"	.88"
MAC16112_220	0.220"	1.25"	.88"	.88"
MAC16113_290	0.290"	1.25"	.88"	.88"

MAC03679, MAC16112, MAC16113

REV. REVISIONS		
REV.	DESCRIPTION	DATE



MAC03679 175

MAC16112 220

MAC16113 290

PARTING-LINE

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SOROC PRODUCTS

CUSTOMER: _____

NAME	DATE	DESCRIPTION:
E. FREDRICKS	1/4/2018	SIZE DWG. NO.
		B MAC03679, MAC16112, MAC16113
		REV
		SCALE: 2:1
		WEIGHT: _____
		SHEET 1 OF 1

MATERIAL TOLERANCES:
 HDPE/WIRE MATERIAL:
 OVERALL LENGTH/TWIST: ±.015 INCH PER FOOT
 TWIN SHEET: ±.003 INCH PER FOOT
 WARP/BOW: ±0.25 INCH
 MOUNTING HOLES: ±0.25" INCH CENTERS

ABS MATERIAL:
 OVERALL LENGTH/TWIST: ±.031 INCH PER FOOT
 ABS TOLERANCE: ±.031

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ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED

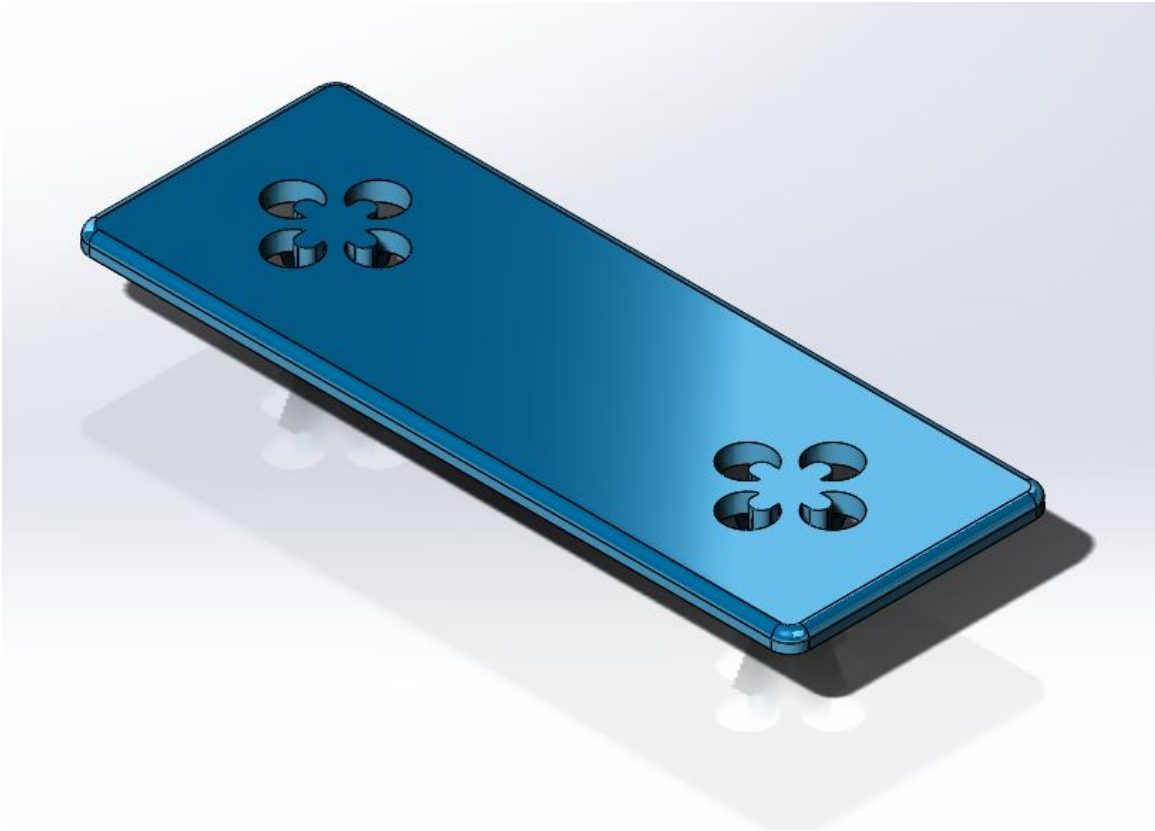
UNCONTROLLED WHEN PRINTED OR IN PDF FORM

FLAT TPU'S (ALL)

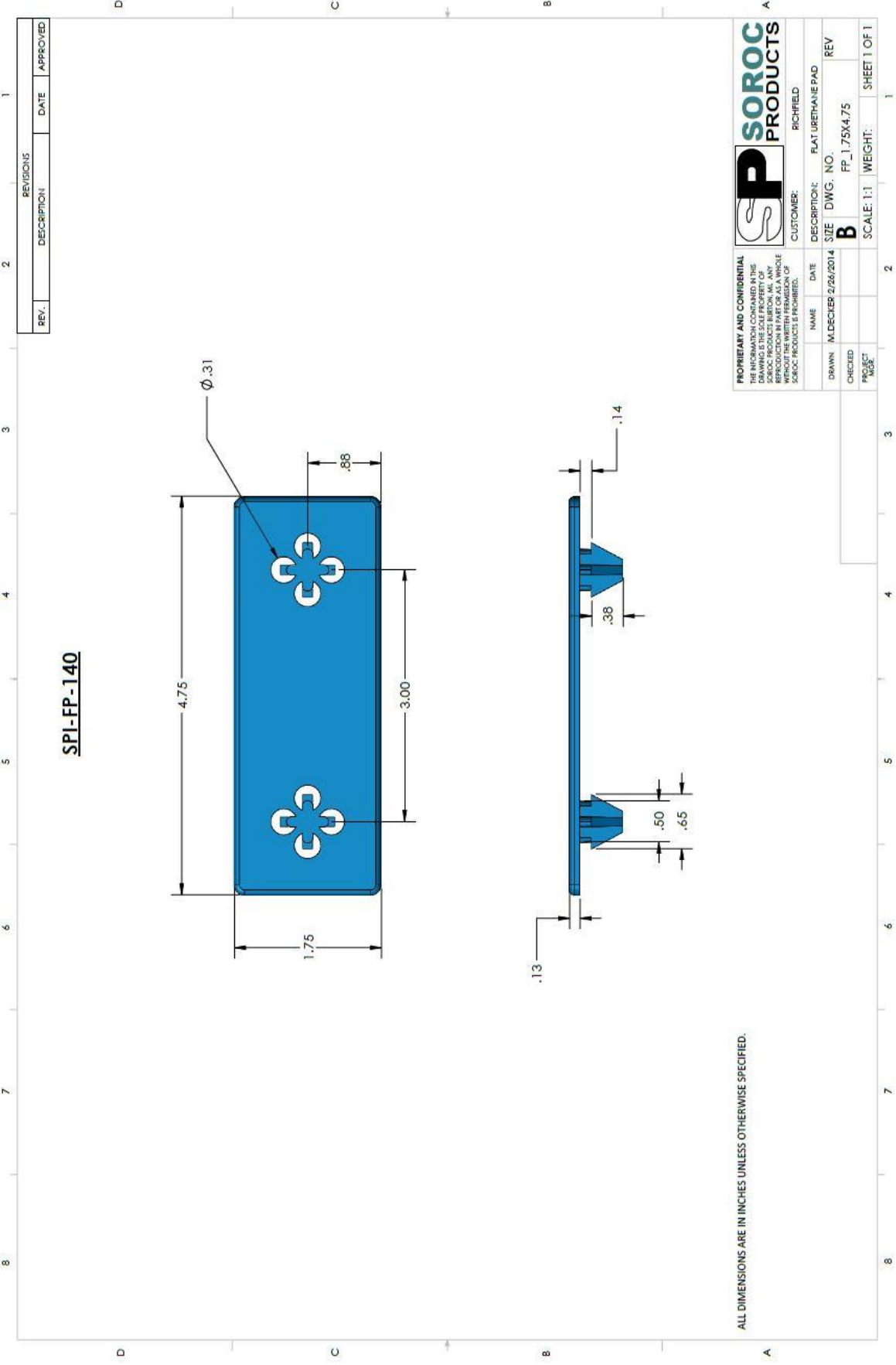
Product	Throat Length
SPI – FP– 140	0.140"
SPI – 2 x 2 – 140	0.140"
SPI – 2 x 2.75 – 140	0.140"
SPI – 2 x 6 – 140	0.140"
SPI – 2 x 10 – 140	0.140"

FLAT PAD (1.75 x 4.75)

See PDF on following page



NAME	Flat Pad 1.75 x 4.75			
	Throat Length	Length	Width	Height
SPI – FP – 140	0.140"	1.75"	4.75"	0.13"



SPI-FP-140

REV.		REVISIONS		DATE		APPROVED	
NO.	DESCRIPTION	DATE	APPROVED	NO.	DESCRIPTION	DATE	APPROVED

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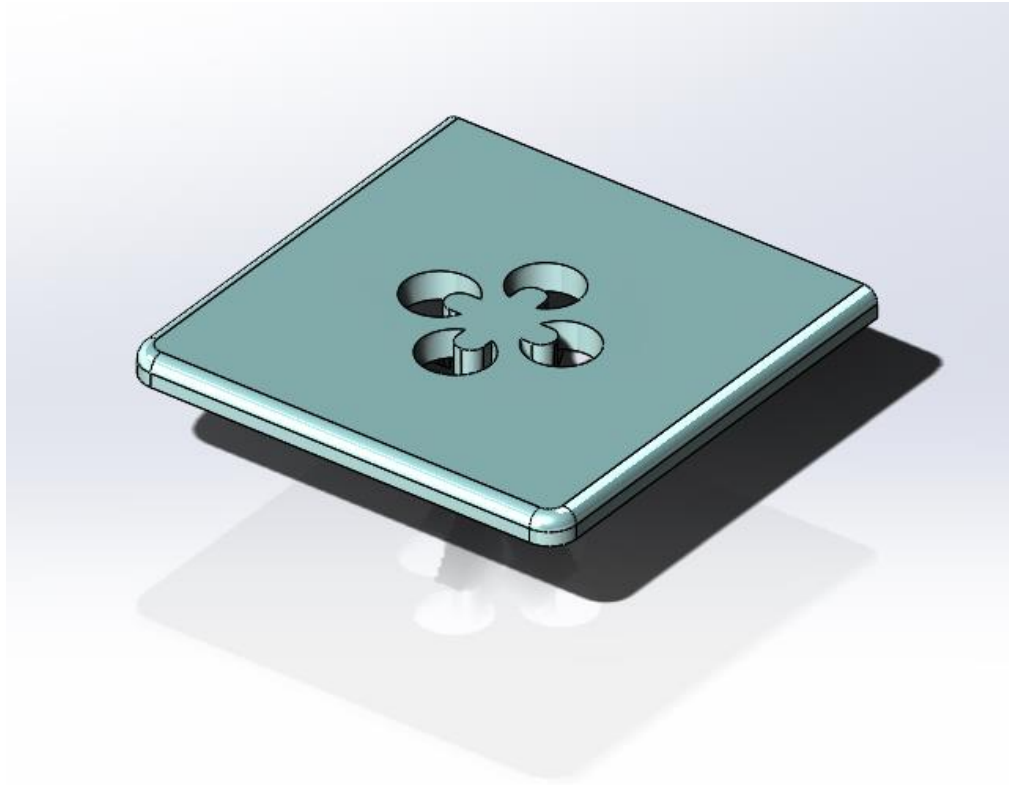
SOROC PRODUCTS
 RICHFIELD

NAME: M. DECKER DATE: 2/26/2014
 DESCRIPTION: FLAT URETHANE PAD
 SIZE: B DWG. NO: FP_1.75X4.75
 DRAWN: M. DECKER CHECKED: PROJECT NO: SCALE: 1:1 WEIGHT: SHEET 1 OF 1

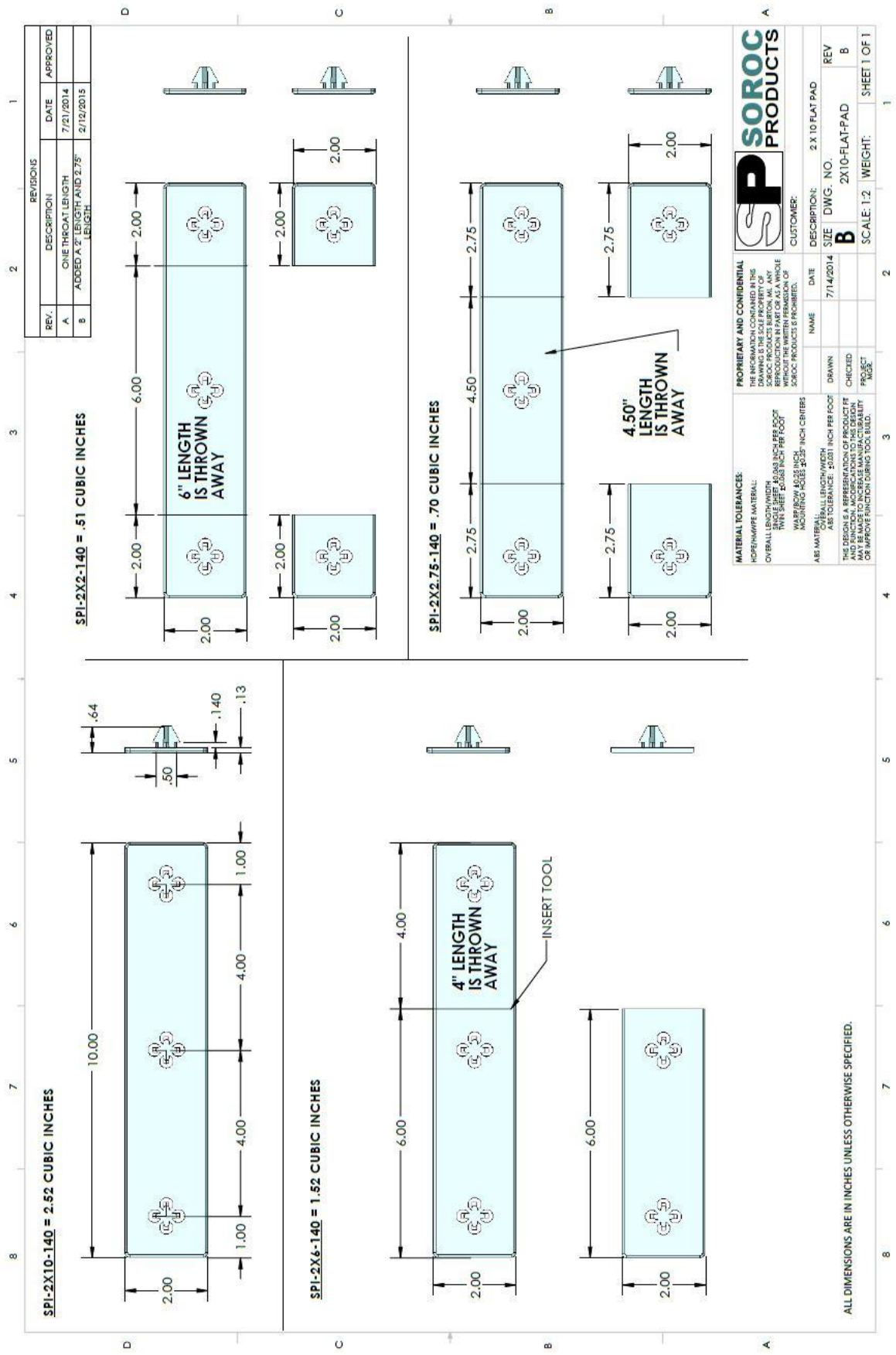
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

FLAT PAD (2 INCH VARIATIONS)

See PDF on following page



NAME	Flat Pad			
	Throat Length	Length	Width	Height
SPI – 2 x 2 – 140	0.140"	2.00"	2.00"	0.13"
SPI – 2 x 2.75 – 140	0.140"	2.00"	2.75"	0.13"
SPI – 2 x 6 – 140	0.140"	2.00"	6.00"	0.13"
SPI – 2 x 10 – 140	0.140"	2.00"	10.00"	0.13"

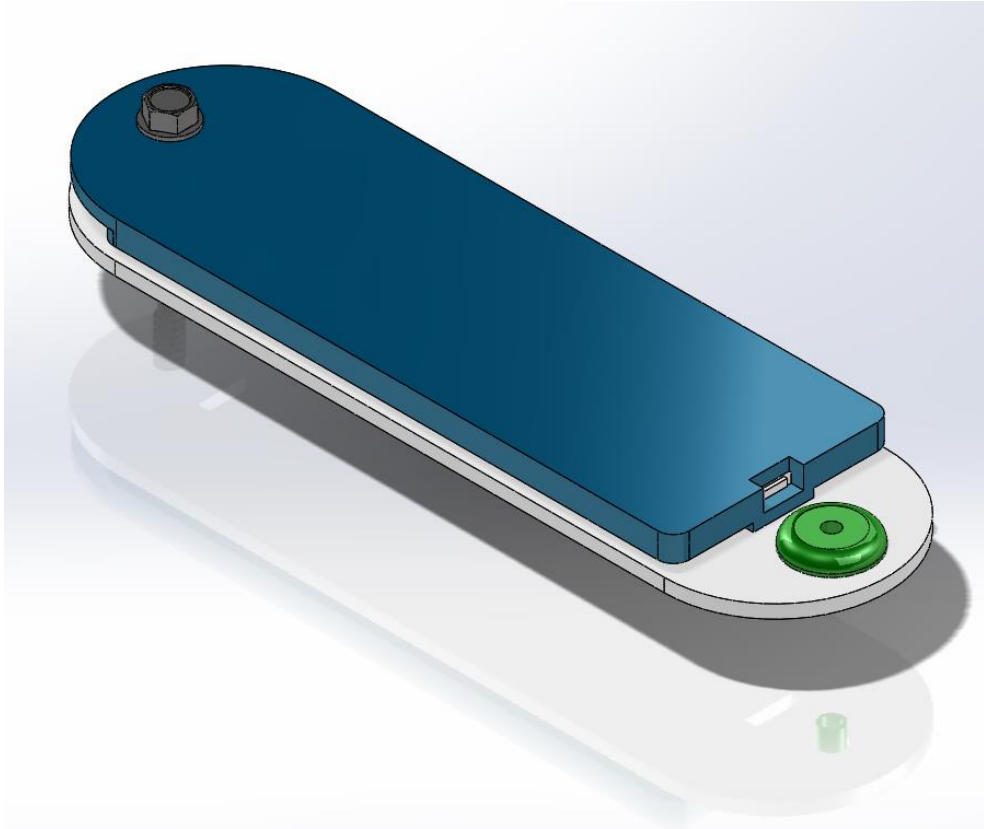


RF TAG MOUNT (ALL)

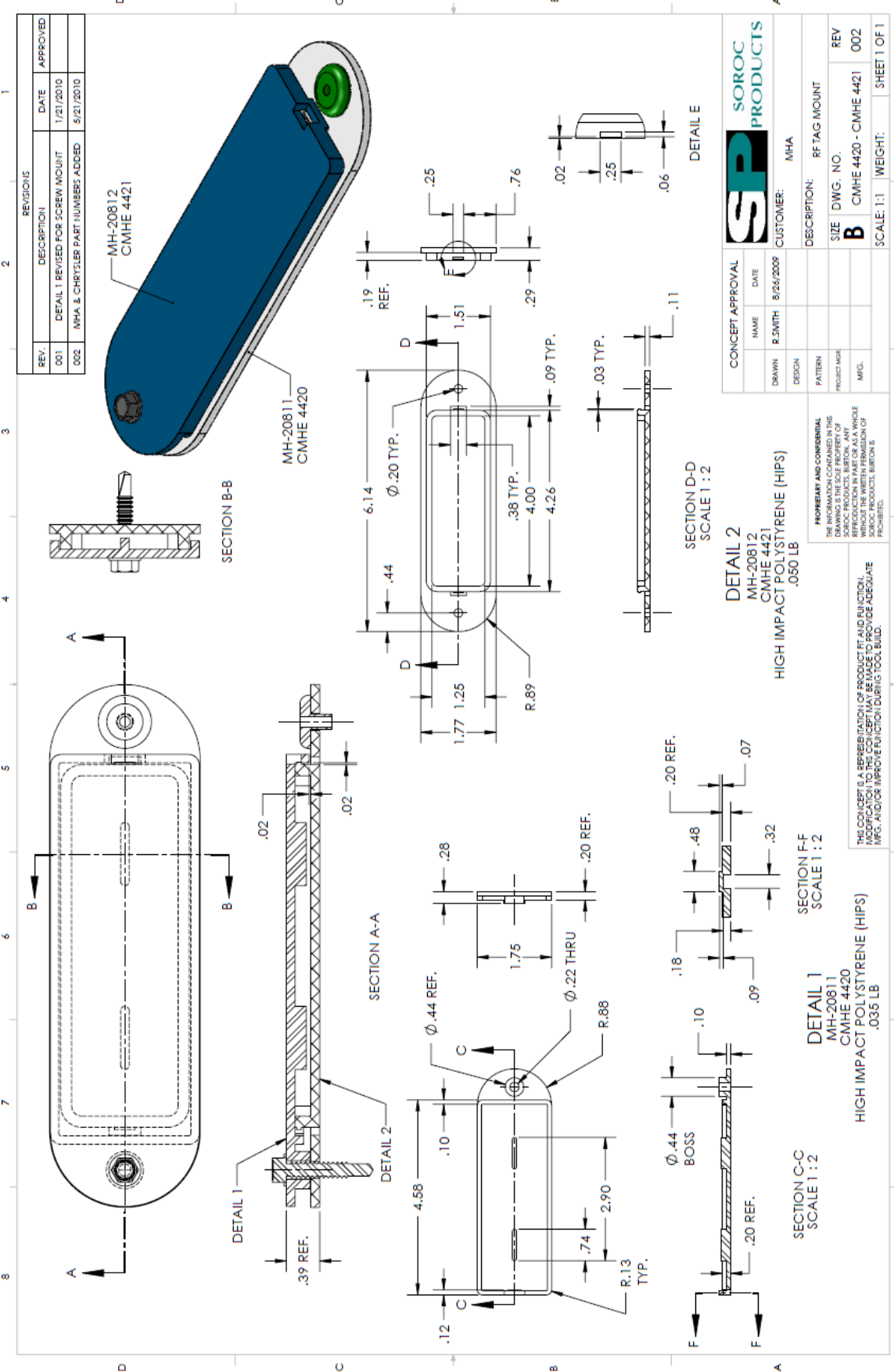
Product	No Throat Length
SP RF TAG (Mount)	N/A

RF TAG MOUNT

See PDF's on following pages



NAME	SP-CMHE 4420 or SP-CMHE 4421			
SP RF TAG (Mount)		Length	Width	Height
		1.77"	6.14"	0.39"



REV.	DESCRIPTION	DATE	APPROVED
001	DETAIL 1 REVISED FOR SCREW MOUNT	1/21/2010	
002	MHA & CHRYSLER PART NUMBERS ADDED	5/21/2010	

CONCEPT APPROVAL		DATE	
NAME	R. SMITH	DATE	8/26/2009
DESIGN		CUSTOMER	MHA
PATTERN		DESCRIPTION	RF TAG MOUNT
PROJECT MFG.		SIZE	DWG. NO.
			B
		REV	002
		SCALE	1:1
		WEIGHT	
		SHEET	1 OF 1

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DETAIL 2
MH-20812
CMHE 4421
HIGH IMPACT POLYSTYRENE (HIPS)
.050 LB

SECTION F-F
SCALE 1 : 2

DETAIL 1
MH-20811
CMHE 4420
HIGH IMPACT POLYSTYRENE (HIPS)
.035 LB

SECTION C-C
SCALE 1 : 2

SECTION D-D
SCALE 1 : 2

DETAIL E

SOROC PRODUCTS

STRIPE COLOR (2" and 4")



**LIGHT
BLUE**



GREEN



RED



YELLOW



GRAY



BLUE



ORANGE



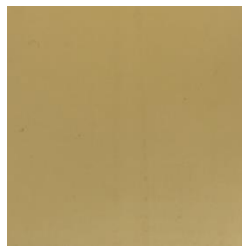
PURPLE



**MINT
GREEN**



WHITE



TAN



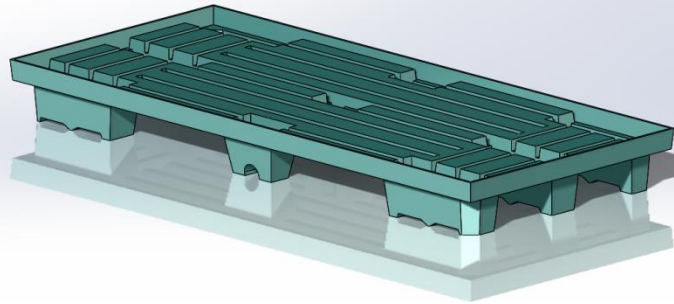
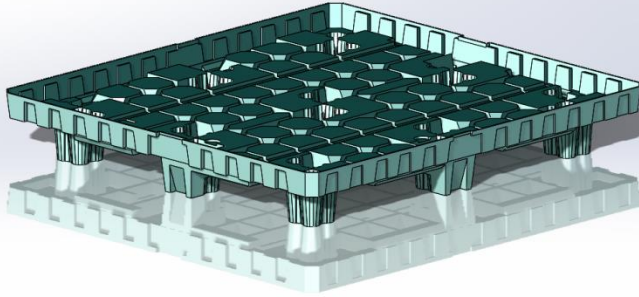
PINK

PALLETS (ALL)

Product	Description	Seatbelt
SPI-3236-SSP	32 x 36	NO
SPI-3248-SSP	32 x 48	(2) On Length Sides
SPI-2864-SSP	28 x 64	NO
SPI-4048-SSP	40 x 48	(2) On Width Sides
SPI-4548-SSP	45 x 48	(4) All Sides
SPI-4848-SSP	48 x 48	(2)
SPI-4552-SSP	45 x 52	(4) All Sides
SPI-4454-SSP	44 x 54	(2) On Length Sides
SPI-4854-SSP	48 x 54	NO
SPI-4857-SSP	48 x 57	(2) On Length Sides
SPI-4560-SSP	45 x 60	NO
SPI-4590-SSP	45 x 90	NO
SPI-3032-TSP	30 x 32	(2) On Width Sides
SPI-3236-TSP	32 x 36	(2) On Width Sides
SPI-4040-TSP	40 x 40	NO
SPI-4548-TSP	45 x 48	(4) All Sides

SINGLE SHEET PALLETS

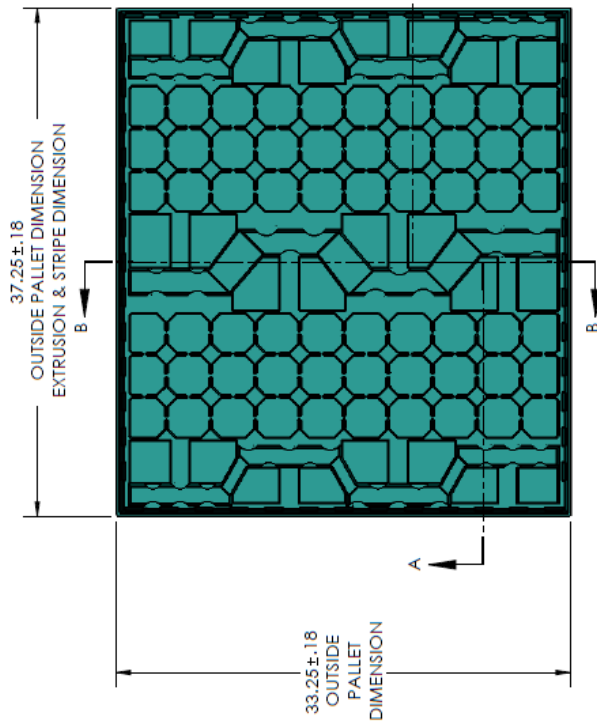
See PDF's on following pages



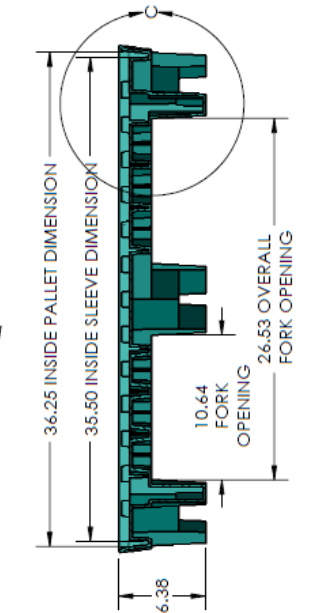
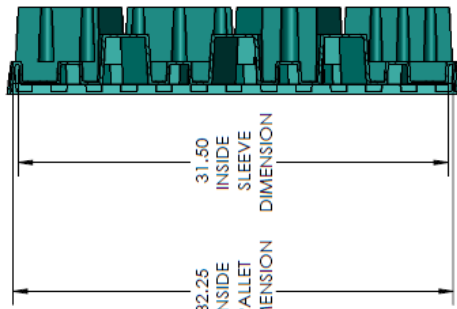
Single Sheet Pallets

NAME	DESC.	DIM. OD	DIM. ID	LID	WEIGHT
SPI-3236-SSP	32 x 36	37.25 x 33.25	32.25 x 36.25	PALLET AS LID	11.1
SPI-3248-SSP	32 x 48	33 x 49	32 x 48	PALLET AS LID	13.8
SPI-2864-SSP	28 x 64	28.5 x 64.5	28 x 64	SPI-2864-SSL	16.9
SPI-4048-SSP	40 x 48	41.13 x 49.13	40 x 48	PALLET AS LID	18.2
SPI-4548-SSP	45 x 48	46 x 49.5	48 x 45	PALLET AS LID	20.5
SPI-4848-SSP	48 x 48	48 x 48	47.16 x 47.16	PALLET AS LID	20.7
SPI-4552-SSP	45 x 52	45 x 52	42.5 x 51	PALLET AS LID	21
SPI-4454-SSP	44 x 54	44 x 54	43.13 x 53.13	PALLET AS LID	21.4
SPI-4854-SSP	48 x 54	48 x 54	47 x 53	PALLET AS LID	23.3
SPI-4857-SSP	48 x 57	49.5 x 58.5	48.5 x 57.5	PALLET AS LID	24.6
SPI-4560-SSP	45 x 60	46 x 61	45 x 60	PALLET AS LID	25.2
SPI-4590-SSP	45 x 90	46 x 91	44.75 x 89.75	PALLET AS LID	37.6

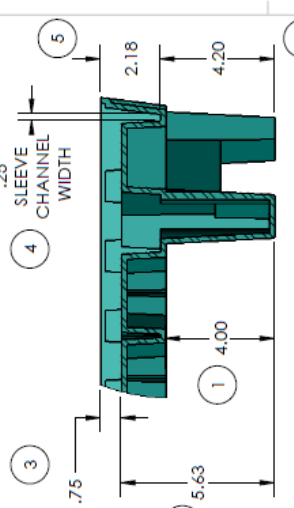
SPI-3236-SSP



STANDARD PRODUCT INFORMATION	
DESCRIPTION:	32 X 36 SINGLE SHEET PALLET MIRROR IMAGE; PALLET CAN ALSO BE USED AS A LID
SOROC PART#:	SPI-3236-SSP
SOROC TOOL#:	5147
PALLET O.D.:	33.25 X 37.25
PALLET I.D.:	32.25 X 36.25
SLEEVE I.D.:	31.9 X 36.5
PALLET WEIGHT:	11.1 LBS
SEATBELT RETRACTOR SET:	NONE
(1) FORK OPENING HEIGHT	
(2) DISTANCE FROM FLOOR TO PALLET DECK	
(3) DISTANCE FROM PALLET DECK TO TOP OF LIP	
(4) SLEEVE CHANNEL WIDTH	
(5) DISTANCE FROM BOTTOM OF SLEEVE CHANNEL TO TOP OF LIP	
(6) DISTANCE FROM FLOOR TO BOTTOM OF SLEEVE CHANNEL	
PRODUCTION REQUIREMENTS	
MATERIAL:	HDPE
START GAUGE:	0.25
DRAIN HOLES:	QTY: 12; DIA: .25
COLOR:	BLACK IS STANDARD



SECTION B-B



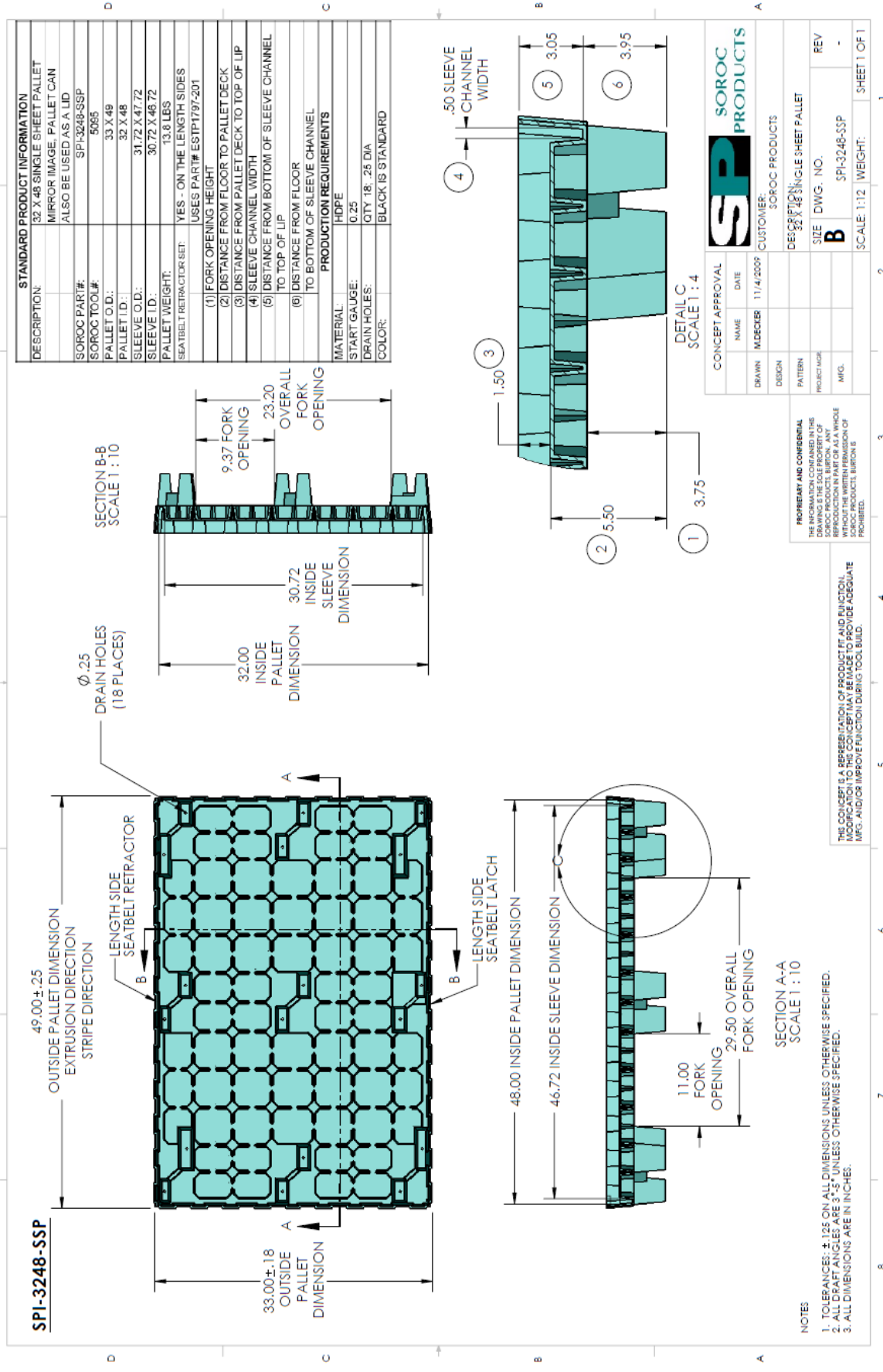
DETAIL C

CONCEPT APPROVAL		DETAIL C	
NAME	DATE	DESIGN	PATTERN
DESIGNER	8/12/2010	SOROC PRODUCTS	
DATE		DESCRIPTION:	DESK
M/D/DECER		SIZE	DWG. NO.
			B
		REV	-
		SCALE:	1:8
		WEIGHT:	SHEET 1 OF 1

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NOTES
 SECTION A-A
 1. TOLERANCES: ±.125 ON ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED.
 2. ALL DRAFT ANGLES ARE 3° UNLESS OTHERWISE SPECIFIED.
 3. ALL DIMENSIONS ARE IN INCHES.



STANDARD PRODUCT INFORMATION	
DESCRIPTION:	32 X 48 SINGLE SHEET PALLET
	MIRROR IMAGE, PALLET CAN ALSO BE USED AS A LID
SOROC PART#:	SPI-3248-SSP
SOROC TOOL#:	5065
PALLET I.D.:	33 X 48
PALLET O.D.:	32 X 48
SLEEVE I.D.:	31.72 X 47.72
SLEEVE O.D.:	30.72 X 46.72
PALLET WEIGHT:	13.8 LBS
SEATBELT RETRACTOR SET:	YES - ON THE LENGTH SIDES
	USES PART# ESTP1797-201
(1) FORK OPENING HEIGHT	
(2) DISTANCE FROM FLOOR TO PALLET DECK	
(3) DISTANCE FROM PALLET DECK TO TOP OF LIP	
(4) SLEEVE CHANNEL WIDTH	
(5) DISTANCE FROM BOTTOM OF SLEEVE CHANNEL TO TOP OF LIP	
(6) DISTANCE FROM FLOOR TO BOTTOM OF SLEEVE CHANNEL	
PRODUCTION REQUIREMENTS	
MATERIAL:	HDPPE
START GAUGE:	0.25
DRAIN HOLES:	CITY 18, .25 DIA
COLOR:	BLACK IS STANDARD

CONCEPT APPROVAL	
NAME:	
DATE:	
DRAWN / M/DECKER:	11/4/2009
DESIGN:	
PATTERN:	
PROJECT NAME:	
PRODUCTION PART OR A.J.V. NUMBER:	
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DESIGN: SOROC PRODUCTS

CUSTOMER: SOROC PRODUCTS

DESIGN: SINGLE SHEET PALLET

SIZE:	DWG. NO.:	REV:
B		-

SCALE: 1:12 WEIGHT: SHEET 1 OF 1

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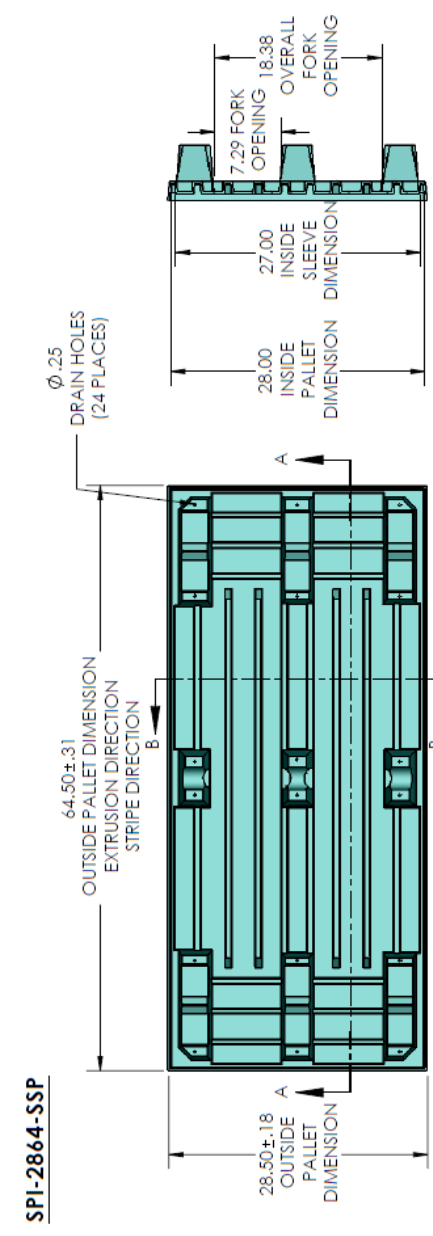
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NOTES:

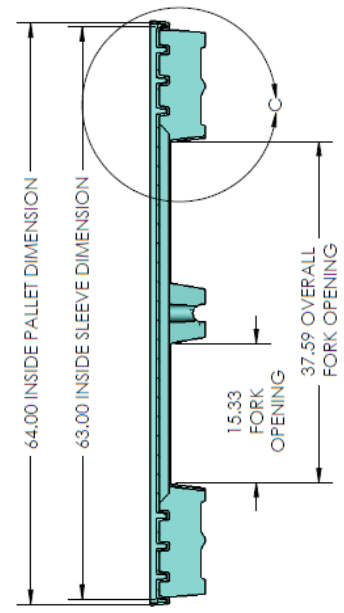
1. TOLERANCES: ±.125 ON ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED.
2. ALL DRAFT ANGLES ARE 3° UNLESS OTHERWISE SPECIFIED.
3. ALL DIMENSIONS ARE IN INCHES.

STANDARD PRODUCT INFORMATION	
DESCRIPTION:	28 X 64 SINGLE SHEET PALLET USED WITH SPI-2864-SSL
SOROC PART#:	SPI-2864-SSP
SOROC TOOL#:	5005
PALLET O.D.:	28.5 X 64.5
SLEEVE I.D.:	28 X 64
SLEEVE O.D.:	27.62 X 63.62
SLEEVE I.D.:	27 X 63
PALLET WEIGHT:	16.9 LBS
(1) FORK OPENING HEIGHT	
(2) DISTANCE FROM FLOOR TO PALLET DECK	
(3) DISTANCE FROM PALLET DECK TO TOP OF LIP	
(4) SLEEVE CHANNEL WIDTH	
(5) DISTANCE FROM BOTTOM OF SLEEVE CHANNEL TO TOP OF LIP	
(6) DISTANCE FROM FLOOR TO BOTTOM OF SLEEVE CHANNEL	
PRODUCTION REQUIREMENTS	
MATERIAL:	HDPE
START GAUGE:	0.25
DRAIN HOLES:	QTY: 24 ; DIA.: .25"

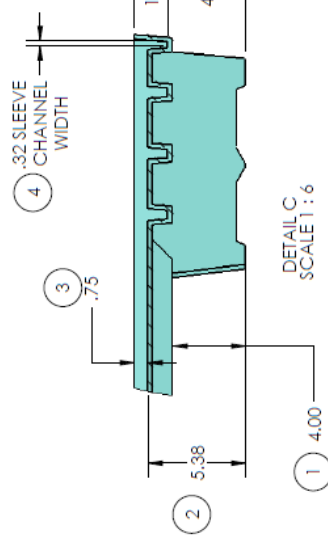
1 2 3 4 5 6 7 8



SECTION B-B



SECTION A-A



DETAIL C
SCALE 1:6

CONCEPT APPROVAL	
NAME	DATE
DRAWN	M/DECKER 11/10/2009
DESIGN	
PATTERN	
PROJECT/AGE	
MFG.	

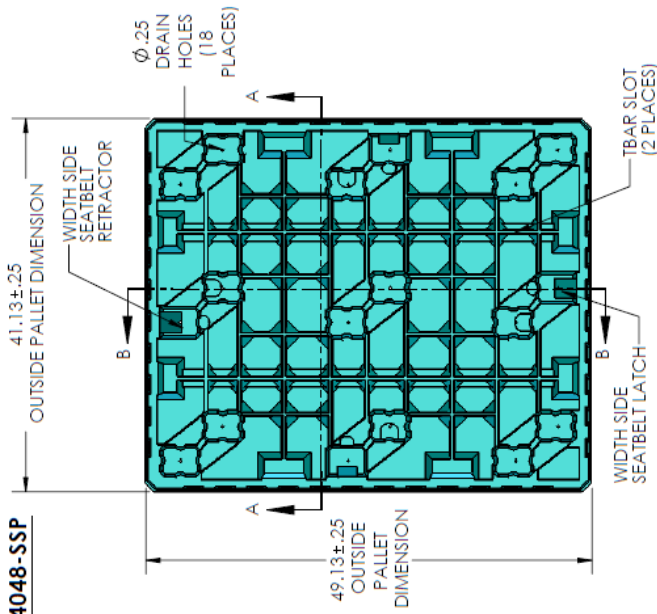
CUSTOMER: SOROC PRODUCTS	
DESIGN: 28 X 64 SINGLE SHEET PALLET	
SIZE	DWG. NO.
B	
REV	
SCALE: 1:12	WEIGHT:
	SHEET 1 OF 1

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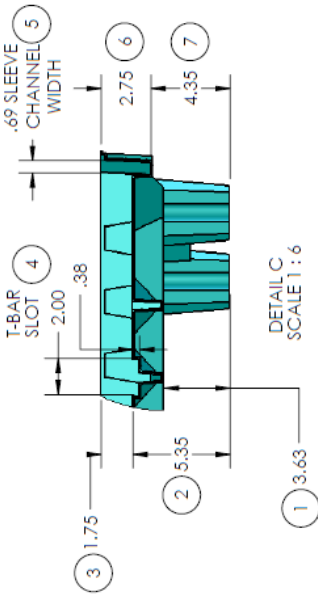
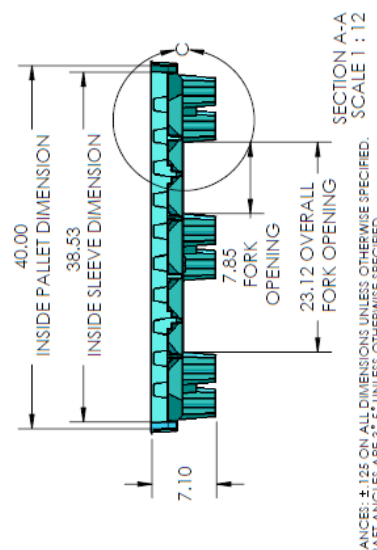
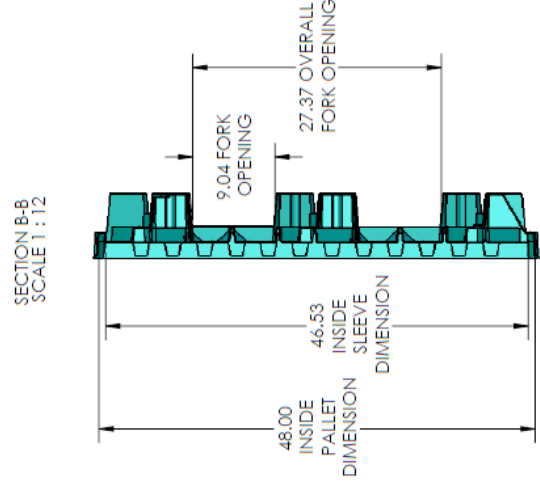
- NOTES
1. TOLERANCES: ± .125 ON ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED.
 2. ALL DRAFT ANGLES ARE 3:1 UNLESS OTHERWISE SPECIFIED.
 3. ALL DIMENSIONS ARE IN INCHES.

SPI-4048-SSP



STANDARD PRODUCT INFORMATION

DESCRIPTION:	40 X 48 SINGLE SHEET PALLET MIRROR IMAGE, PALLET CAN ALSO BE USED AS A LID
SOROC PART#:	SPI-4048-SSP
SOROC TOOL#:	5092
PALLET O.D.:	41.13 X 49.13
PALLET I.D.:	40 X 48
SLEEVE O.D.:	38.9 X 47.9
SLEEVE I.D.:	38.53 X 46.53
PALLET WEIGHT:	18.2 LBS
SEATBELT RETRACTOR SET:	YES - ON THE WIDTH SIDES USES PART# ESTP1797-201
(1) FORK OPENING HEIGHT	
(2) DISTANCE FROM FLOOR TO PALLET DECK	
(3) DISTANCE FROM PALLET DECK TO TOP OF LIP	
(4) T-BAR SLOT (2 PLACES)	
(5) SLEEVE CHANNEL WIDTH	
(6) DISTANCE FROM BOTTOM OF SLEEVE CHANNEL TO TOP OF LIP	
(7) DISTANCE FROM FLOOR TO BOTTOM OF SLEEVE CHANNEL	
PRODUCTION REQUIREMENTS	
MATERIAL:	HDPE
START GAUGE:	0.25
DRAIN HOLES:	QTY: 18; SIZE: 25" DIA
COLOR:	BLACK IS STANDARD



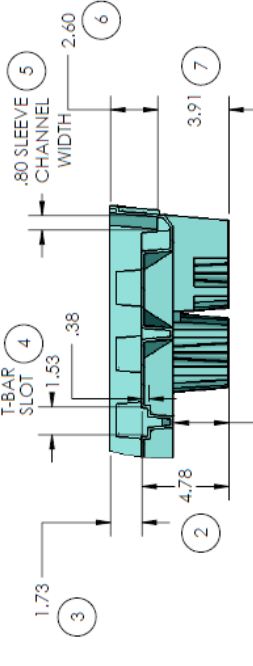
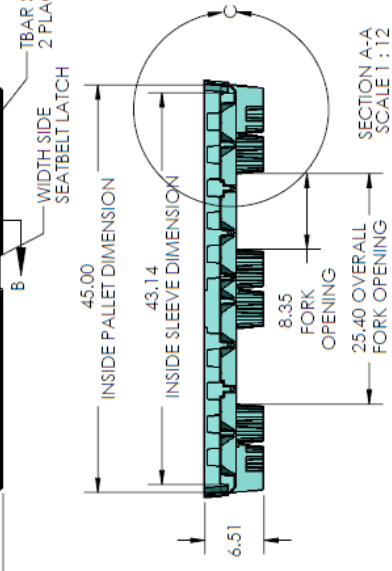
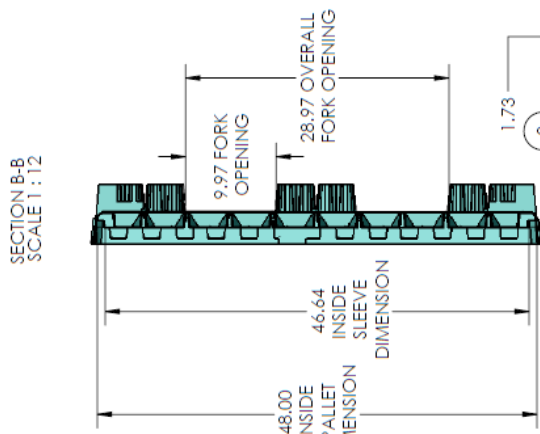
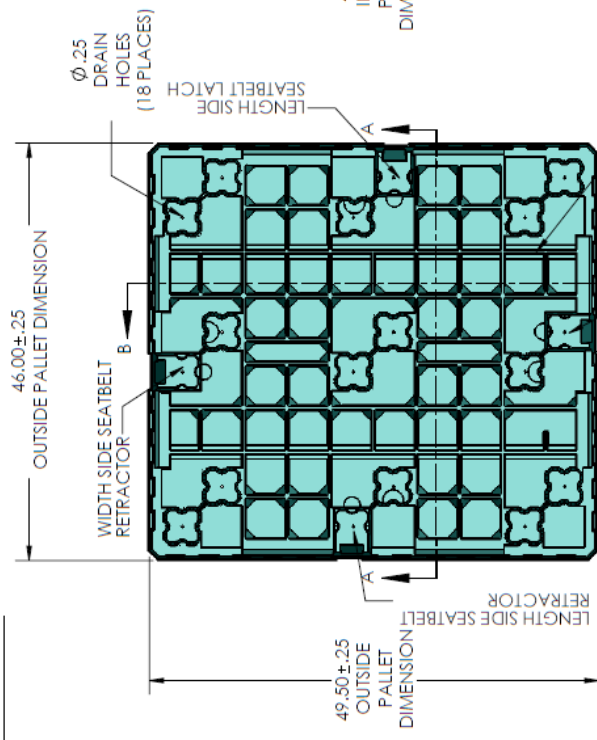
CONCEPT APPROVAL		SOROC PRODUCTS	
NAME	DATE	CUSTOMER	SOROC PRODUCTS
DRAWN	11/4/2009	DESCRIPTION	40 X 48 SINGLE SHEET PALLET
DESIGN		SIZE	DWG. NO.
PATTERN		REV	B
PROJECT NAME		SCALE	1:8
MFG.		WEIGHT	
			SHEET 1 OF 1

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- NOTES**
1. TOLERANCES: ±.125 ON ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED.
 2. ALL DRAFT ANGLES ARE 3° UNLESS OTHERWISE SPECIFIED.
 3. ALL DIMENSIONS ARE IN INCHES.

SPI-4548-SSP



STANDARD PRODUCT INFORMATION	
DESCRIPTION:	45 X 48 SINGLE SHEET PALLET MIRROR IMAGE - PALLET CAN ALSO BE USED AS A LID
SOROC PART#:	SPI4548-SSP
SOROC TOOL#:	5184
PALLET O.D.:	46 X 48.5
PALLET I.D.:	45 X 48
SLEEVE O.D.:	44.74 X 48.24
SLEEVE I.D.:	43.14 X 46.64
PALLET WEIGHT:	20.6 LBS.
SEATBELT RETRACTOR SET:	YES - ON EITHER LENGTH OR WIDTH; USES PART# EST1797-201
(1) FORK OPENING HEIGHT	
(2) DISTANCE FROM FLOOR TO PALLET DECK	
(3) DISTANCE FROM PALLET DECK TO TOP OF LIP	
(4) T-BAR SLOT (2 PLACES)	
(5) SLEEVE CHANNEL WIDTH	
(6) DISTANCE FROM BOTTOM OF SLEEVE CHANNEL TO TOP OF LIP	
(7) DISTANCE FROM FLOOR TO BOTTOM OF SLEEVE CHANNEL	
PRODUCTION REQUIREMENTS	
MATERIAL:	HDPE
START GAUGE:	0.25
DRAIN HOLES:	QTY: 18; SIZE: .25 DIA
COLOR:	BLACK IS STANDARD

CONCEPT APPROVAL	
NAME	DATE
DRAWN	8/12/2010
DESIGN	
PATTERN	
PROJECT MARK	
MFG.	

SOROC PRODUCTS
CUSTOMER: SOROC PRODUCTS

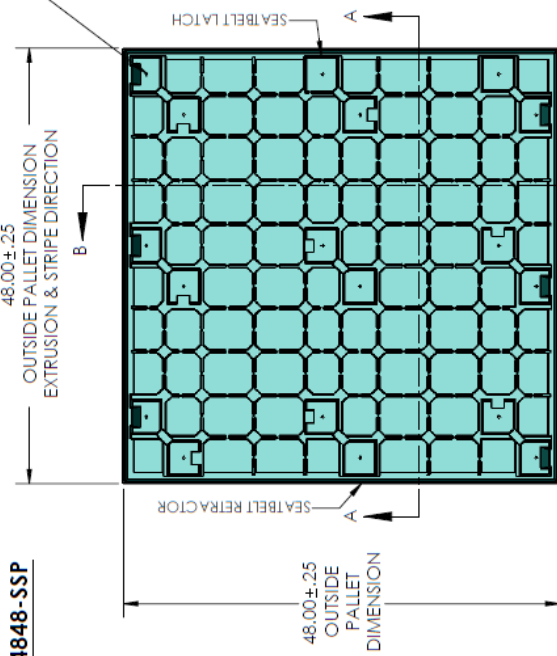
DESCRIPTION:	45 X 48 SINGLE SHEET PALLET
SIZE	DWG. NO.
REV	B
	SPI-4548-SSP
SCALE:	1:8
WEIGHT:	
	SHEET 1 OF 1

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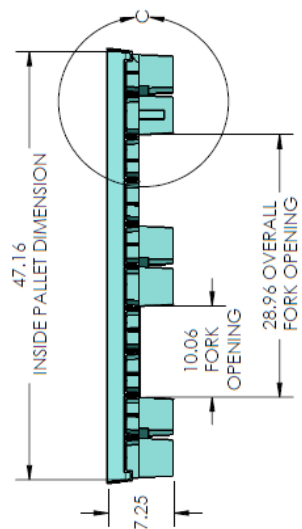
THIS CONCEPT IS A REPRESENTATION OF PRODUCT FIT AND FUNCTION. MODIFICATION TO THIS CONCEPT MAY BE MADE TO PROVIDE ADEQUATE MFG. AND/OR IMPROVEMENT DURING TOOL BUILD.

- NOTES
1. TOLERANCES: ±.125 ON ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED.
 2. ALL DRAFT ANGLES ARE 3°-5° UNLESS OTHERWISE SPECIFIED.
 3. ALL DIMENSIONS ARE IN INCHES.

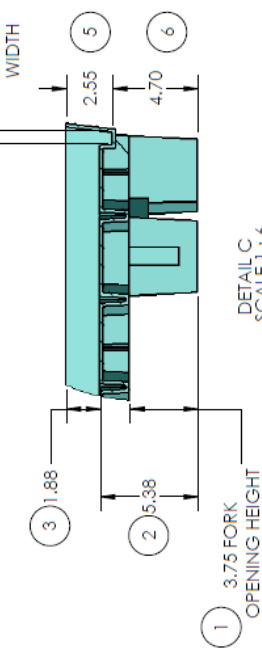
SPI-4848-SSP



SECTION B-B



SECTION A-A



DETAIL C
SCALE 1:6

STANDARD PRODUCT INFORMATION	
DESCRIPTION:	48 X 48 SINGLE SHEET PALLET
MIRROR IMAGE, PALLET CAN ALSO BE USED AS A LID	
SOROC PART#:	SPI-4848-SSP
SOROC TOOL#:	5082
PALLET O.D.:	48 X 48
PALLET I.D.:	47.16 X 47.16
SLEEVE O.D.:	47 X 47
SLEEVE I.D.:	45.62 X 45.62
PALLET WEIGHT:	20.7 LBS
SEA-BELT RETRACTOR SET:	YES - ON ONE SIDE
(1) FORK OPENING HEIGHT	USES PART# ESTP 1797-201
(2) DISTANCE FROM FLOOR TO PALLET DECK	
(3) DISTANCE FROM PALLET DECK TO TOP OF LIP	
(4) SLEEVE CHANNEL WIDTH	
(5) DISTANCE FROM BOTTOM OF SLEEVE CHANNEL TO TOP OF LIP	
(6) DISTANCE FROM FLOOR TO BOTTOM OF SLEEVE CHANNEL	
PRODUCTION REQUIREMENTS	
MATERIAL:	HDPPE
START GAUGE:	0.25
DRAIN HOLES:	CITY: 18; SIZE: 26 DIA
COLOR:	BLACK IS STANDARD

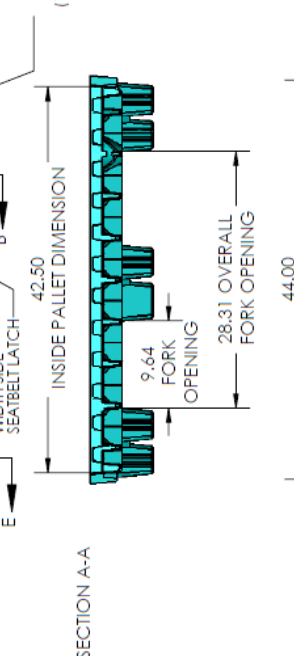
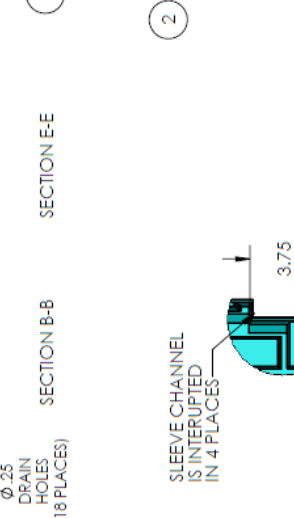
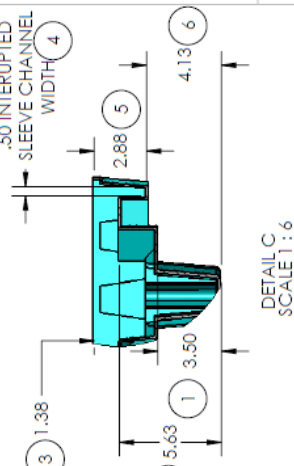
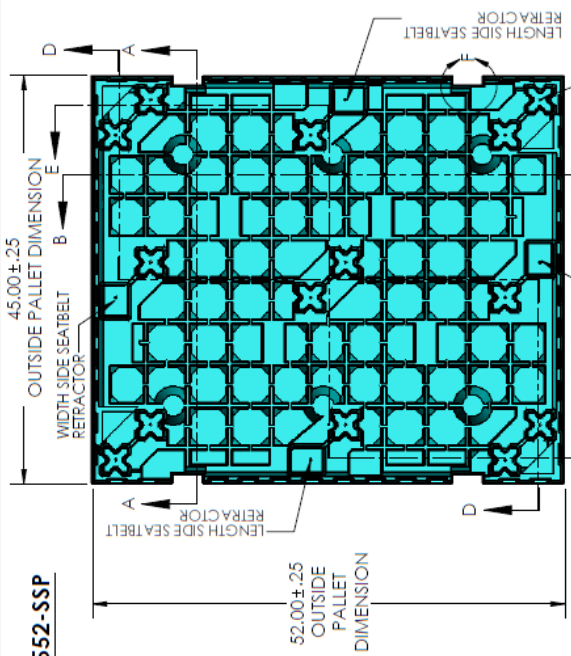
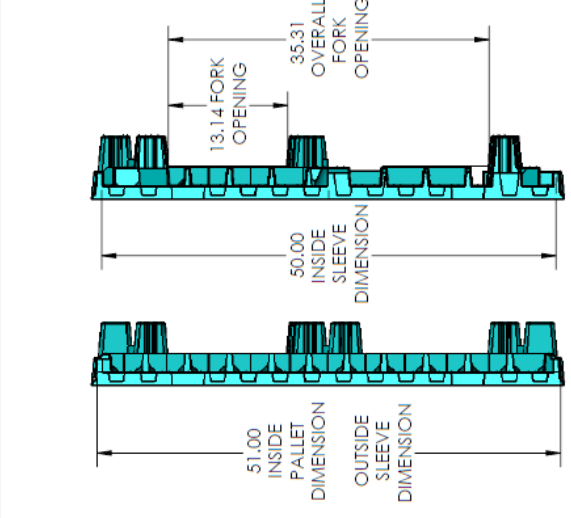
CONCEPT APPROVAL		SOROC PRODUCTS	
NAME	DATE	DESIGN	CUSTOMER
MIDBOKER	12/7/2009		SOROC PRODUCTS
DESCRIPTION: 48 X 48 SINGLE SHEET PALLET			
SIZE DWG. NO. B			
REV -			
SCALE: 1:12 WEIGHT: SHEET 1 OF 1			

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THE CONCEPT IS A REPRESENTATION OF PRODUCT FIT AND FUNCTION. MODIFICATION TO THIS CONCEPT MAY BE MADE TO PROVIDE ADEQUATE MFG. AND/OR IMPROVE FUNCTION DURING TOOL BUILD.

- NOTES:
1. TOLERANCES: ±.125 ON ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED.
 2. ALL DRAFT ANGLES ARE 3° UNLESS OTHERWISE SPECIFIED.
 3. ALL DIMENSIONS ARE IN INCHES.

STANDARD PRODUCT INFORMATION	
DESCRIPTION:	45 X 52 SINGLE SHEET PALLET MIRROR IMAGE, PALLET CAN ALSO BE USED AS A LID
SOROC PART#:	5141
SOROC TOOL#:	SPI-4552-SSP
PALLET O.D.:	45 X 52
PALLET I.D.:	42.5 X 51
SLEEVE O.D.:	44 X 51
SLEEVE I.D.:	43 X 50
PLEASE NOTE SLEEVE CHANNEL IS INTERRUPTED	
PALLET WEIGHT:	21 LBS
SEATBELT RETRACTOR SET:	YES - ON EITHER LENGTH OR WIDTH; USES PART# ESTP1797-201
(1) FORK OPENING HEIGHT:	
(2) DISTANCE FROM FLOOR TO PALLET DECK:	
(3) DISTANCE FROM PALLET DECK TO TOP OF LIP:	
(4) SLEEVE CHANNEL WIDTH:	
(5) DISTANCE FROM BOTTOM OF SLEEVE CHANNEL TO TOP OF LIP:	
(6) DISTANCE FROM FLOOR TO BOTTOM OF SLEEVE CHANNEL:	
PRODUCTION REQUIREMENTS	
MATERIAL:	HDPE
START GAUGE:	0.25
DRAIN HOLES:	Ø.25 DIA. .25
COLOR:	BLACK IS STANDARD

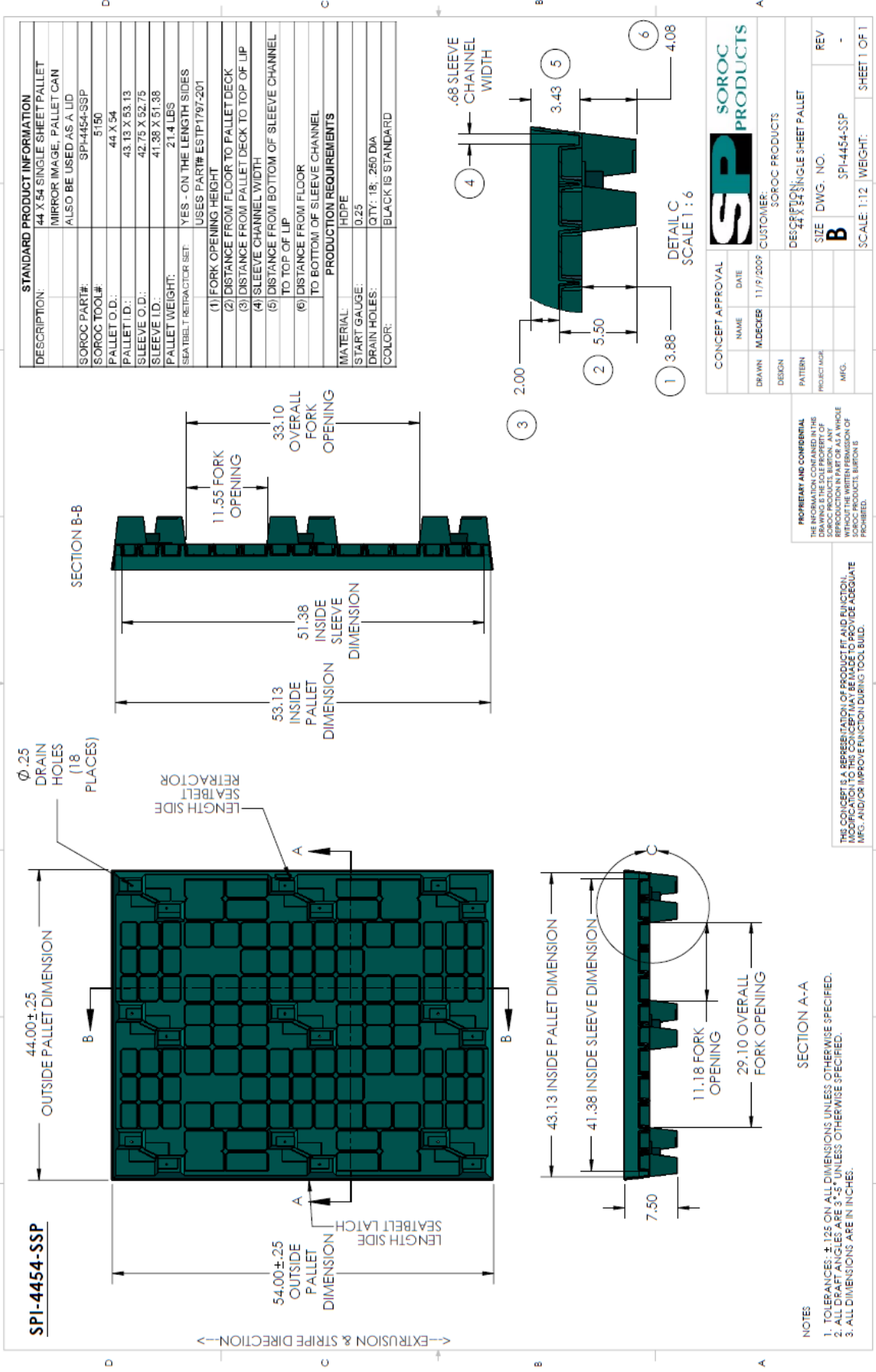


CONCEPT APPROVAL	
NAME	DATE
DRAWN	M/DECKER 8/12/2010
DESIGN	SOROC PRODUCTS
PATTERN	SOROC PRODUCTS
PRODUCT NAME	DESIGN: 45 X 52 SINGLE SHEET PALLET
MFG.	SITE DWG. NO. B
	SPI-4552-SSP
	SCALE: 1:12 WEIGHT:
	SHEET 1 OF 1

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THIS DRAWING IS A REVISION OF PRODUCT # SPI-4552-SSP. ANY REVISIONS TO THIS CONCEPT SHALL BE MADE TO THE APPROPRIATE MFG. AND/OR IMPROVE FUNCTION DURING TOOL BUILD.

NOTES:
1. TOLERANCES: ±.105 ON ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED.
2. ALL DRAFT ANGLES ARE 37.5° UNLESS OTHERWISE SPECIFIED.
3. ALL DIMENSIONS ARE IN INCHES.



STANDARD PRODUCT INFORMATION

DESCRIPTION:	44 X 54 SINGLE SHEET PALLET
MIRROR IMAGE: PALLET CAN ALSO BE USED AS A LID	
SOROC PART#: SPI-4454-SSP	
SOROC TOOL#: 5150	
PALLET O.D.: 44 X 54	
PALLET I.D.: 43.13 X 53.13	
SLEEVE O.D.: 42.75 X 52.75	
SLEEVE I.D.: 41.38 X 51.38	
PALLET WEIGHT: 21.4 LBS	
SEATBELT RETRACTOR SET: YES - ON THE LENGTH SIDES	
USES PART# ESTP1797-201	
(1) FORK OPENING HEIGHT	
(2) DISTANCE FROM FLOOR TO PALLET DECK	
(3) DISTANCE FROM PALLET DECK TO TOP OF LIP	
(4) SLEEVE CHANNEL WIDTH	
(5) DISTANCE FROM BOTTOM OF SLEEVE CHANNEL TO TOP OF LIP	
(6) DISTANCE FROM FLOOR TO BOTTOM OF SLEEVE CHANNEL	
PRODUCTION REQUIREMENTS	
MATERIAL: HDPE	
START GAUGE: 0.25	
DRAIN HOLES: 18; 260 DIA	
COLOR: BLACK IS STANDARD	

CONCEPT APPROVAL

NAME	DATE
DRAWN	M/D/DEC/ 11/19/2009
DESIGN	
PATTERN	
PROJECT NO.	
MFG.	

SOROC PRODUCTS

CUSTOMER: SOROC PRODUCTS

DESCRIPTION: 44 X 54 SINGLE SHEET PALLET

SIZE DWG. NO. **B**

REV -

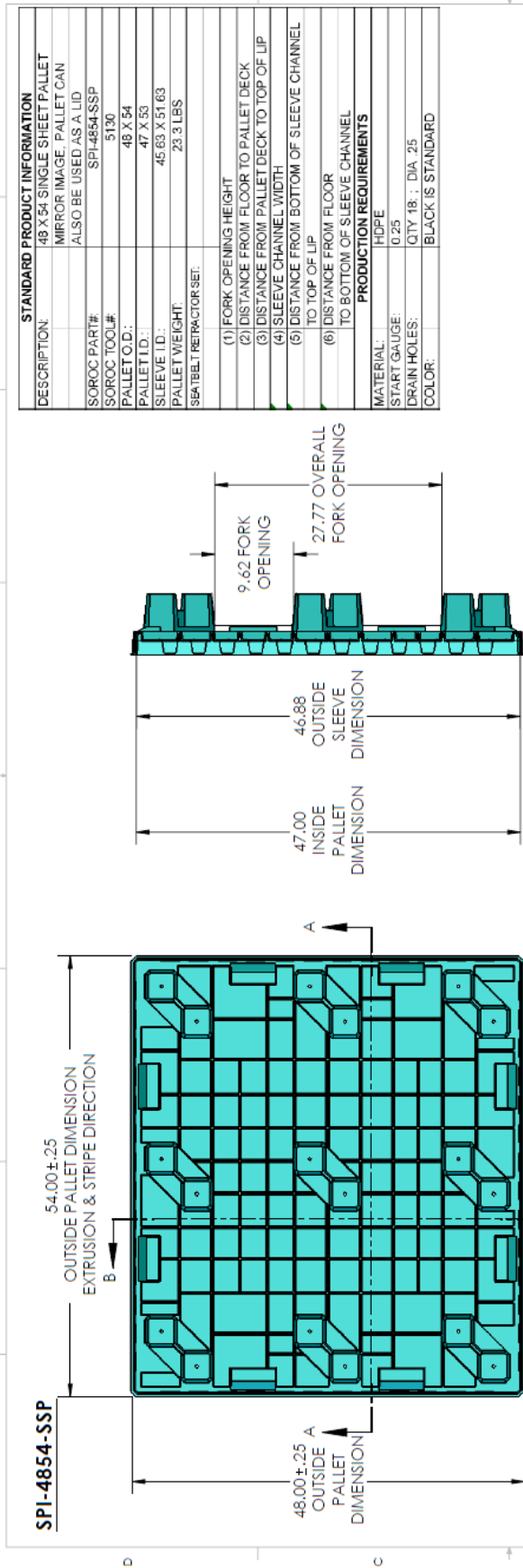
SCALE: 1:12 WEIGHT: SHEET 1 OF 1

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THIS CONCEPT IS A REPRESENTATION OF PRODUCT FIT AND FUNCTION. MODIFICATION TO THIS CONCEPT MAY BE MADE TO PROVIDE ADEQUATE INFO. AND/OR IMPROVE FUNCTION DURING TOOL BLD.

NOTES

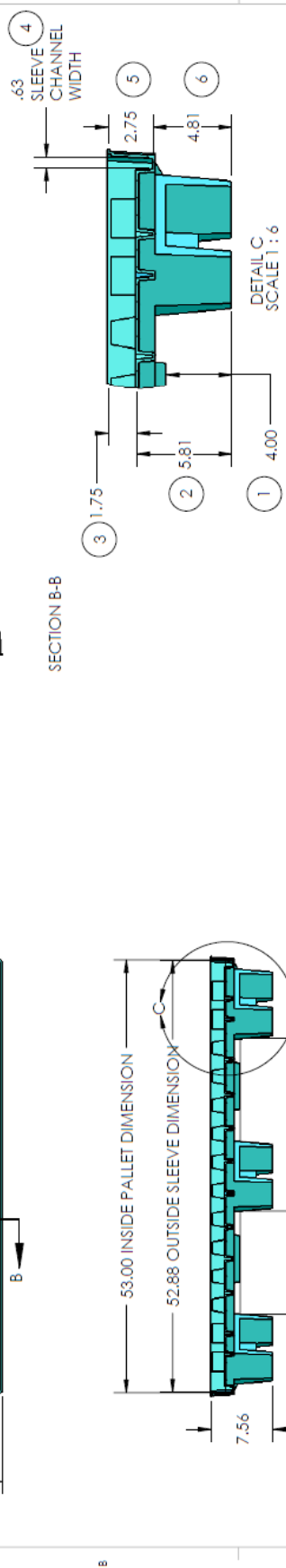
1. TOLERANCES: ±.125 ON ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED.
2. ALL DRAFT ANGLES ARE 3° UNLESS OTHERWISE SPECIFIED.
3. ALL DIMENSIONS ARE IN INCHES.



SPI-4854-SSP

STANDARD PRODUCT INFORMATION

DESCRIPTION:	48 X 54 SINGLE SHEET PALLET MIRROR IMAGE, PALLET CAN ALSO BE USED AS A LID
SOROC PART#:	SPI-4854-SSP
SOROC TOOL#:	5130
PALLET O.D.:	48 X 54
PALLET I.D.:	47 X 53
SLEEVE I.D.:	45.63 X 51.63
PALLET WEIGHT:	23.3 LBS
SEATBELT RETRACTOR SET:	
(1) FORK OPENING HEIGHT	
(2) DISTANCE FROM FLOOR TO PALLET DECK	
(3) DISTANCE FROM PALLET DECK TO TOP OF LIP	
(4) SLEEVE CHANNEL WIDTH	
(5) DISTANCE FROM BOTTOM OF SLEEVE CHANNEL TO TOP OF LIP	
(6) DISTANCE FROM FLOOR TO BOTTOM OF SLEEVE CHANNEL	
PRODUCTION REQUIREMENTS	
MATERIAL:	HDPE
START GAUGE:	0.25
DRAIN HOLES:	QTY 18 ; DIA. .25
COLOR:	BLACK IS STANDARD



SECTION B-B

DETAIL C
SCALE 1:6

CONCEPT APPROVAL		SOROC PRODUCTS	
NAME	DATE	CUSTOMER	SOROC PRODUCTS
M/DECKER	3/22/2010	DESCRIPTION	48 X 54 SINGLE SHEET PALLET
DESIGN		SIZE	DWG. NO. B
PATTERN		REV	-
PROJECT/AGE			
MFG.			
		SCALE:	1:12 WEIGHT:
			SHEET 1 OF 1

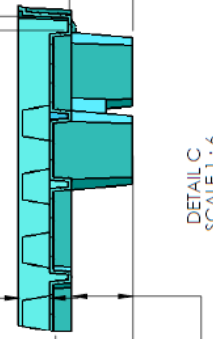
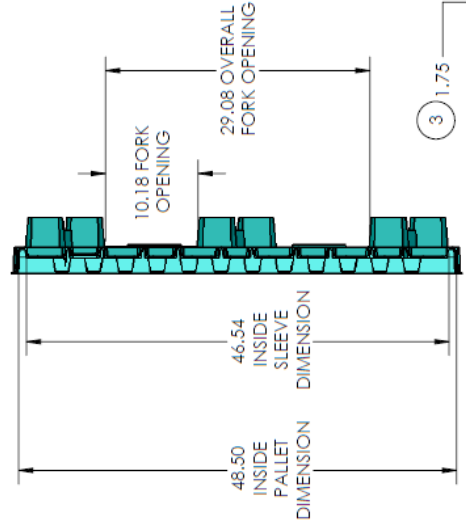
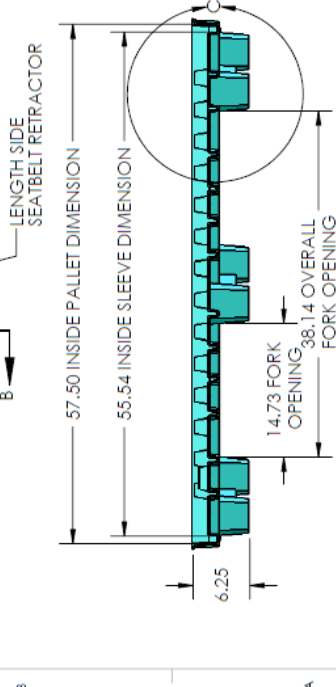
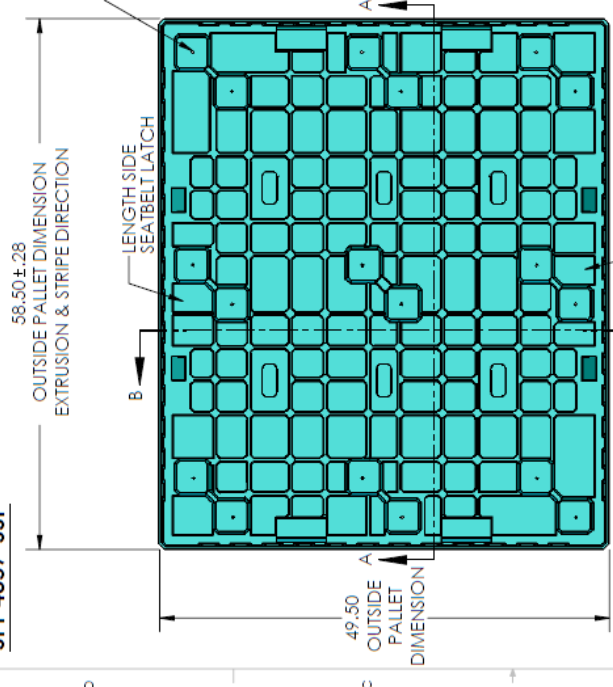
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THE CONCEPT IS A REPRESENTATION OF PRODUCT FIT AND FUNCTION. MODIFICATION TO THIS CONCEPT MAY BE MADE TO PROVIDE ADEQUATE MFG. AND/OR IMPROVE FUNCTION DURING TOOL BUILD.

NOTES
1. TOLERANCES: ±.125 ON ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED.
2. ALL DRAFT ANGLES ARE 3°-5° UNLESS OTHERWISE SPECIFIED.
3. ALL DIMENSIONS ARE IN INCHES.

SECTION A-A

SPI-4857-SSP



STANDARD PRODUCT INFORMATION	
DESCRIPTION:	48 X 57 SINGLE SHEET PALLET MIRROR IMAGE, PALLET CAN ALSO BE USED AS A LID
SOROC PART#:	SPI-4857-SSP
SOROC TOOL#:	02190
PALLET O.D.:	49.5 X 58.5
SLEEVE O.D.:	48.11 X 57.12
PALLET I.D.:	46.54 X 56.94
SEATBELT RETRACTOR SET:	24.6 LBS
(1) FORK OPENING HEIGHT	YES - ON THE LENGTH SIDES USES PART# ESTP1797-201
(2) DISTANCE FROM FLOOR TO PALLET DECK	
(3) DISTANCE FROM PALLET DECK TO TOP OF LIP	
(4) SLEEVE CHANNEL WIDTH	
(5) DISTANCE FROM BOTTOM OF SLEEVE CHANNEL TO TOP OF LIP	
(6) DISTANCE FROM FLOOR TO BOTTOM OF SLEEVE CHANNEL	
MATERIAL:	HDPE
START GAUGE:	0.25
DRAIN HOLES:	QTY 18 : 25 DIA
COLOR:	BLACK IS STANDARD

CONCEPT APPROVAL	
NAME	
DATE	
DRAWN	M/DECKER 11/17/2009
DESIGN	
PATTERN	
PRODUCT NAME	SOROC PRODUCTS
MFG.	

SOROC PRODUCTS

SP

CUSTOMER: SOROC PRODUCTS

DESCRIPTION: 48 X 57 SINGLE SHEET PALLET

SIZE DWG. NO. REV

B SPI-4857-SSP -

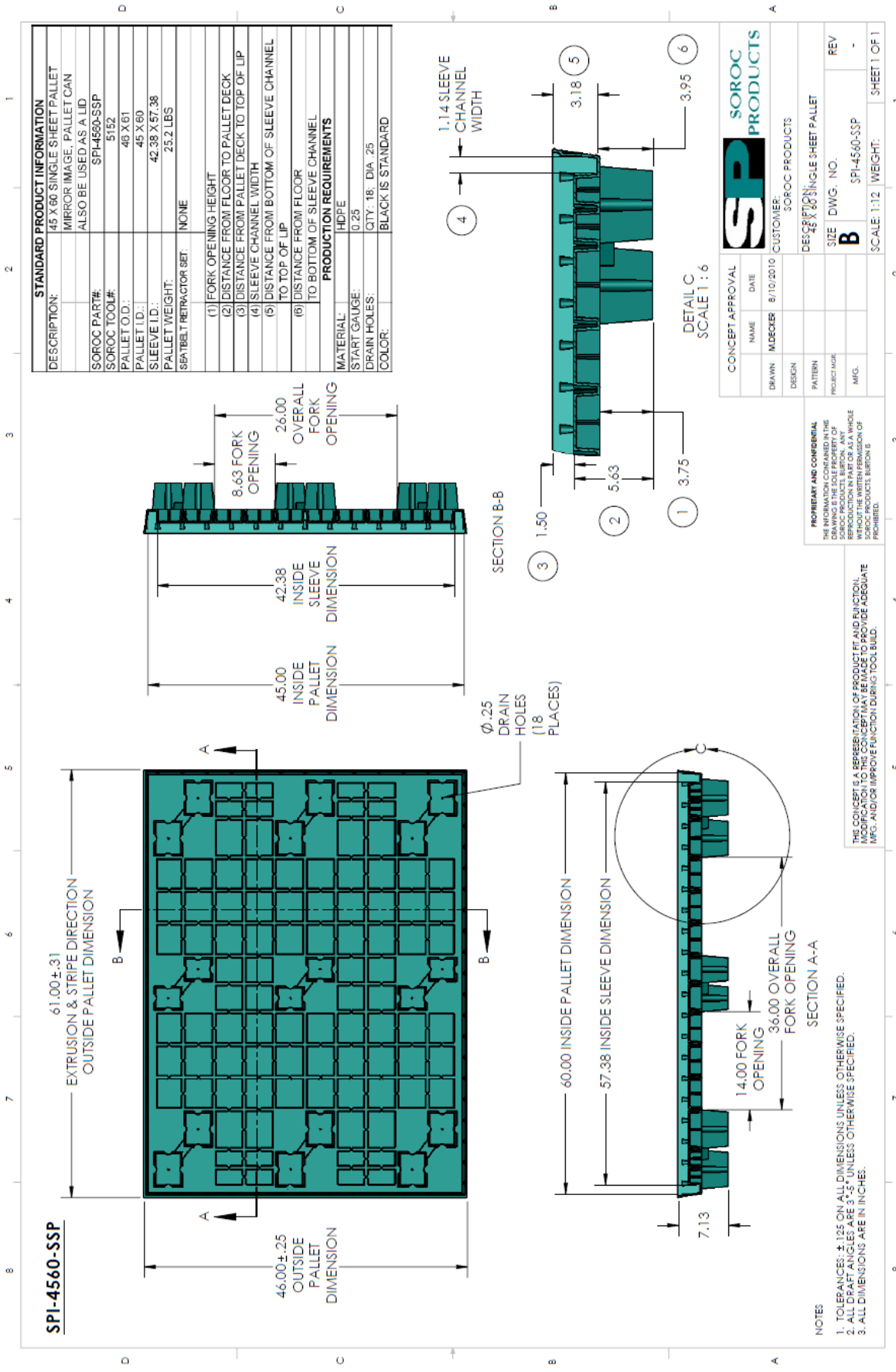
SCALE: 1:12 WEIGHT: SHEET 1 OF 1

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- NOTES
- SECTION A-A
1. TOLERANCES: ±.125 ON ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED.
 2. ALL DRAFT ANGLES ARE 3° UNLESS OTHERWISE SPECIFIED.
 3. ALL DIMENSIONS ARE IN INCHES.

SPI-4560-SSP



STANDARD PRODUCT INFORMATION	
DESCRIPTION:	45 X 60 SINGLE SHEET PALLET
	MIRROR IMAGE: PALLET CAN ALSO BE USED AS A LID
SOROC PART#:	SPI-4560-SSP
SOROC TOOL#:	5152
PALLET O.D.:	46 X 61
PALLET I.D.:	45 X 60
SLEEVE I.D.:	42.38 X 57.38
SEATBELT RETRACTOR SET:	NONE
(1) FORK OPENING HEIGHT	
(2) DISTANCE FROM FLOOR TO PALLET DECK	
(3) DISTANCE FROM PALLET DECK TO TOP OF LIP	
(4) SLEEVE CHANNEL WIDTH	
(5) DISTANCE FROM BOTTOM OF SLEEVE CHANNEL TO TOP OF LIP	
(6) DISTANCE FROM FLOOR TO BOTTOM OF SLEEVE CHANNEL	
PRODUCTION REQUIREMENTS	
MATERIAL:	HDPE
START GAUGE:	0.25
DRAIN HOLES:	QTY: 18; DIA: .25
COLOR:	BLACK IS STANDARD

CONCEPT APPROVAL	
NAME	DATE
DRAWN	8/10/2010
DESIGN	
PATTERN	
PROJECT NO.	
MFG.	

SOROC PRODUCTS

CUSTOMER: SOROC PRODUCTS

DESCRIPTION: 45 X 60 SINGLE SHEET PALLET

SIZE: DWG. NO. **B**

REV: -

SPI-4560-SSP

SCALE: 1:12 WEIGHT: SHEET 1 OF 1

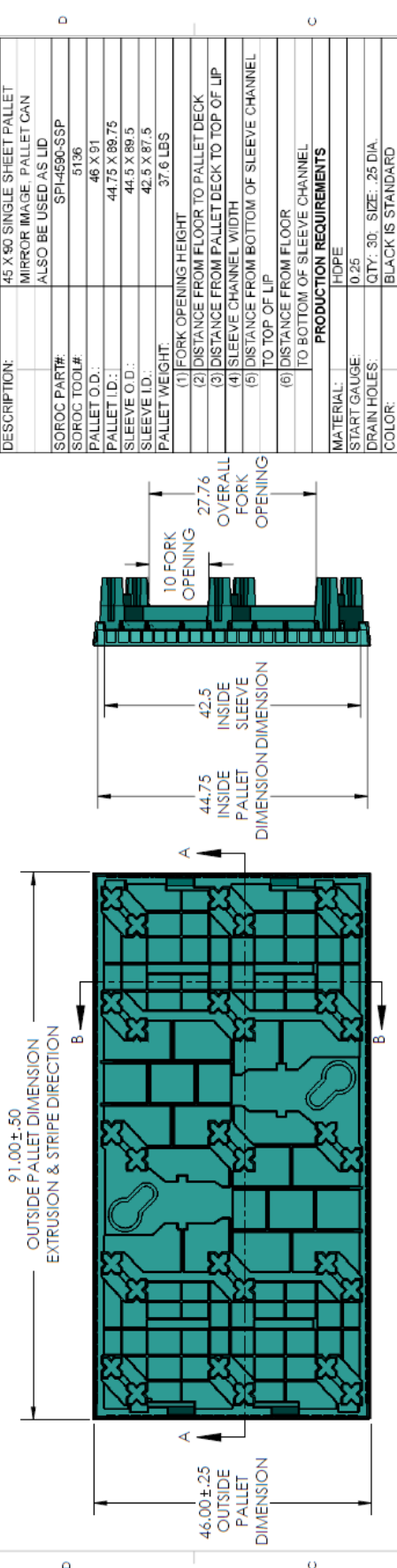
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NOTES

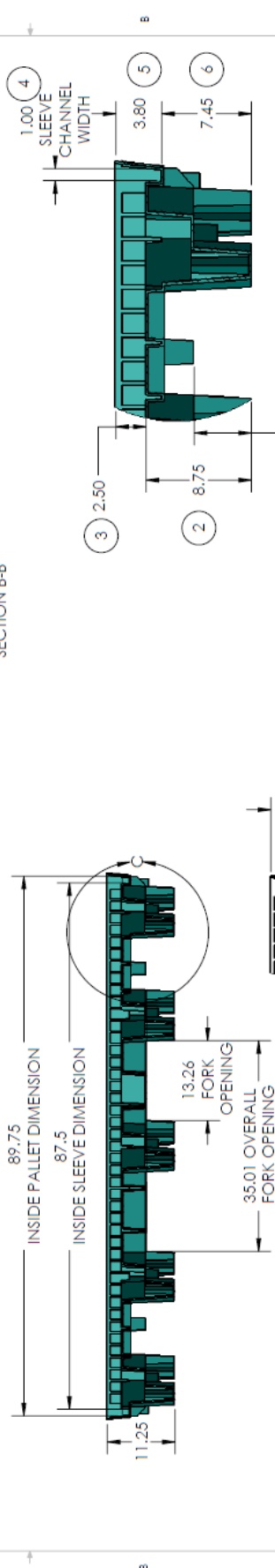
1. TOLERANCES: ±.125 ON ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED.
2. ALL DRAFT ANGLES ARE 3° UNLESS OTHERWISE SPECIFIED.
3. ALL DIMENSIONS ARE IN INCHES.

SPI-4590-SSP



STANDARD PRODUCT INFORMATION	
DESCRIPTION:	45" X 90" SINGLE SHEET PALLET MIRROR IMAGE, PALLET CAN ALSO BE USED AS LID
SOROC PART#:	SPI-4590-SSP
SOROC TOOL#:	5136
PALLET O.D.:	46" X 91"
PALLET I.D.:	44.75" X 89.75"
SLEEVE O.D.:	44.5" X 89.5"
SLEEVE I.D.:	42.5" X 87.5"
PALLET WEIGHT:	37.6 LBS
(1) FORK OPENING HEIGHT	
(2) DISTANCE FROM FLOOR TO PALLET DECK	
(3) DISTANCE FROM PALLET DECK TO TOP OF LIP	
(4) SLEEVE CHANNEL WIDTH	
(5) DISTANCE FROM BOTTOM OF SLEEVE CHANNEL TO TOP OF LIP	
(6) DISTANCE FROM FLOOR TO BOTTOM OF SLEEVE CHANNEL	
PRODUCTION REQUIREMENTS	
MATERIAL:	HOPE
START GAUGE:	0.25
DRAIN HOLES:	QTY: 30, SIZE: .25 DIA.
COLOR:	BLACK IS STANDARD

SECTION B-B



DETAIL C
SCALE 1:8

CONCEPT APPROVAL	
NAME	
DATE	
DRAWN	M/DECKER 1/4/2010
DESIGN	SOROC PRODUCTS
PATTERN	
PROJECT WORK	
MFG.	

SOROC PRODUCTS	
DESCRIPTION:	45" X 90" SINGLE SHEET PALLET
SIZE	DWG. NO.
REV	B SPI-4590-SSP
SCALE:	1:16 WEIGHT:
	SHEET 1 OF 1

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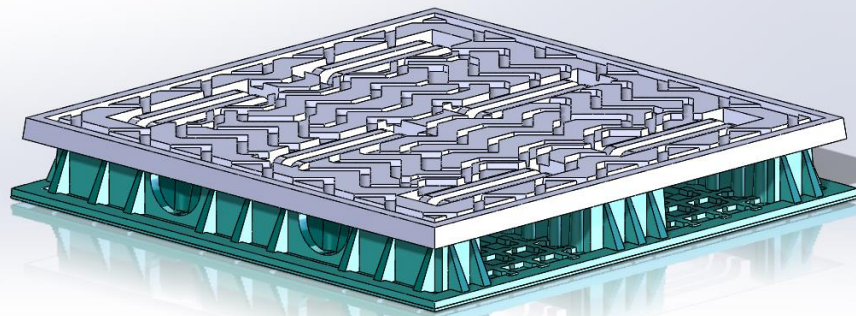
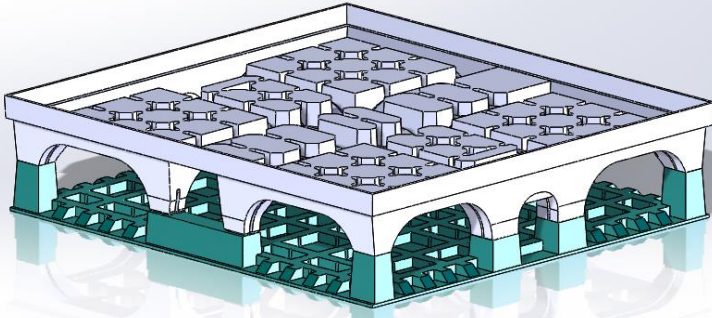
ANTI-JAM FEATURES PREVENT PALLET FROM LOCKING TOGETHER DURING NEST

DETAIL D
SCALE 1:12

NOTES
1. TOLERANCES: ± .125 ON ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED.
2. ALL DRAFT ANGLES ARE 3° UNLESS OTHERWISE SPECIFIED.
3. ALL DIMENSIONS ARE IN INCHES.

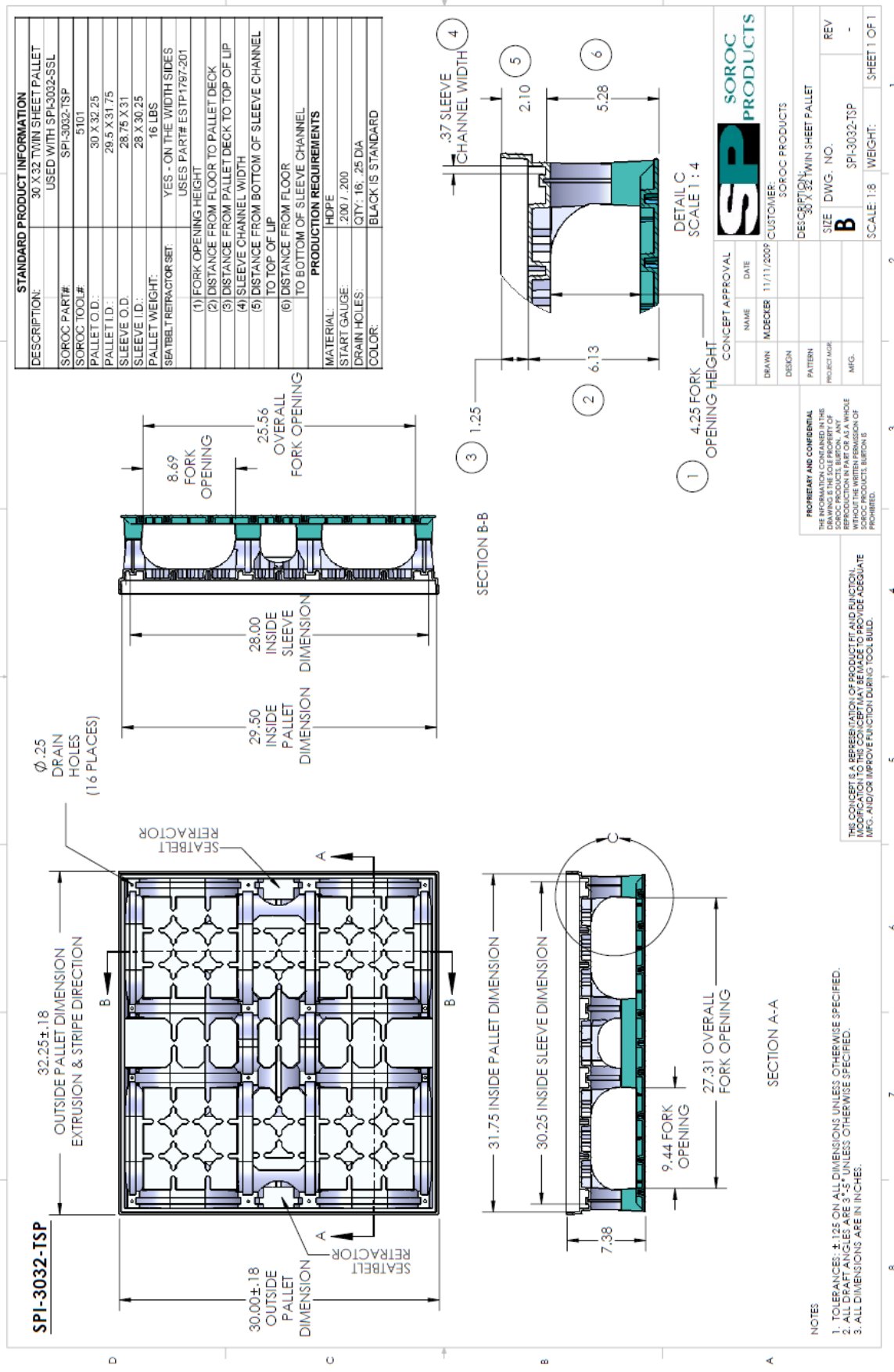
TWIN SHEET PALLETS

See PDF's on following pages



Twin Sheet Pallets

NAME	DESC.	DIM. OD	DIM. ID	LID	WEIGHT
SPI-3032-TSP	30 x 32	30 x 32.25	29.5 x 31.75	SPI-3032-SSL	16
SPI-3236-TSP	32 x 36	33.5 x 37.5	32.38 x 36.38	SPI-3236-SSL	18
SPI-4040-TSP	40 x 40	41.5 x 41.5	40 x 40	PALLET AS LID	24.8
SPI-4548-TSP	45 x 48	45 x 48	44.5 x 47.5	PALLET AS LID	31



STANDARD PRODUCT INFORMATION

DESCRIPTION: 30 X 32 TWIN SHEET PALLET
USED WITH SPI-3032-SSL

SOROC PART#: SPI-3032-TSP

SOROC TOOL#: 5101

PALLET O.D.: 30 X 32.25

PALLET I.D.: 28.5 X 31.75

SLEEVE O.D.: 28.75 X 31

SLEEVE I.D.: 28 X 30.25

PALLET WEIGHT: 16 LBS

SEATBELT RETRACTOR SET: YES - ON THE WIDTH SIDES
USES PART# ESTP1787-201

(1) FORK OPENING HEIGHT

(2) DISTANCE FROM FLOOR TO PALLET DECK

(3) DISTANCE FROM PALLET DECK TO TOP OF LIP

(4) SLEEVE CHANNEL WIDTH

(5) DISTANCE FROM BOTTOM OF SLEEVE CHANNEL TO TOP OF LIP

(6) DISTANCE FROM FLOOR TO BOTTOM OF SLEEVE CHANNEL

PRODUCTION REQUIREMENTS

MATERIAL: HDPE

START GALGIE: 2000 / 200

DRAIN HOLES: CITY: 16, 25 DIA

COLOR: BLACK IS STANDARD

CONCEPT APPROVAL

NAME	DATE
DRAWN / M/DECKER	11/11/2009
DESIGN	
PATTERN	
PROJECT NAME	
MFG.	

CUSTOMER: SOROC PRODUCTS

DESIGN: SPI-3032 TWIN SHEET PALLET

SIZE: DWG. NO. B

REV: -

SCALE: 1:8

WEIGHT: SHEET 1 OF 1

PROPRIETARY AND CONFIDENTIAL

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THIS CONCEPT IS A REPRESENTATION OF PRODUCT FIT AND FUNCTION. THE CONCEPT IS NOT TO BE USED FOR MFG. AND/OR IMPROVE FUNCTION DURING TOOL BUILD.

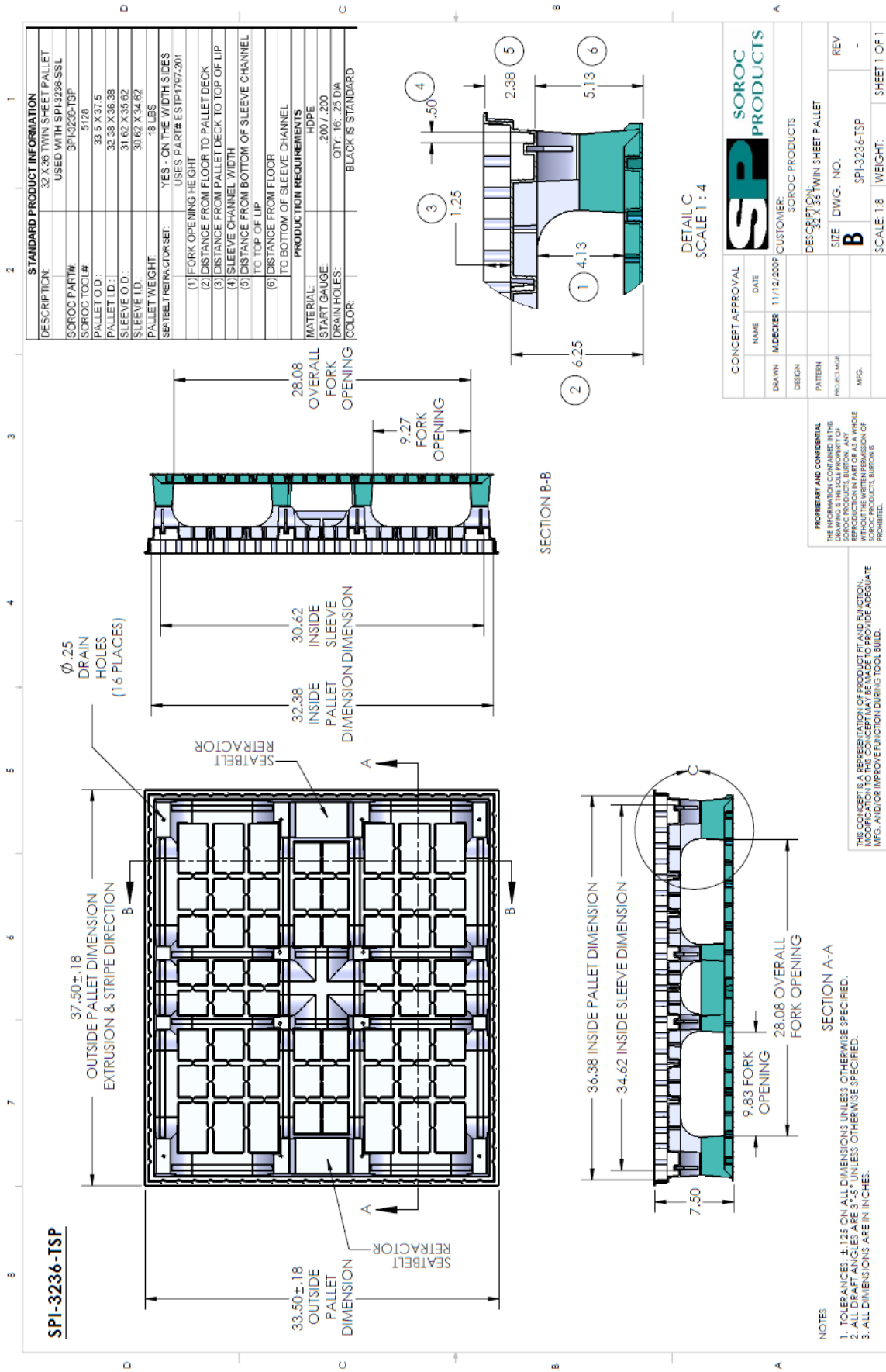
NOTES

1. TOLERANCES: ±.125 ON ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED.

2. ALL DEPT ANGLES ARE 3:1 UNLESS OTHERWISE SPECIFIED.

3. ALL DIMENSIONS ARE IN INCHES.

SPI-3236-TSP



STANDARD PRODUCT INFORMATION	
DESCRIPTION:	32 X 36 TWIN SHEET PALLET USED WITH SPI-3236-SSL
SOROC PART#: SOROC TOOL#: PALLET O.D.: PALLET I.D.: SLEEVE O.D.: SLEEVE I.D.: PALLET WEIGHT: SEATBELT RETRACTOR SET:	SPI-3236-TSP 5126 33.5 X 37.5 32.38 X 36.38 31.62 X 35.62 30.62 X 34.62 18 LBS YES - ON THE WIDTH SIDES USES PART# EST175/201
(1) FORK OPENING HEIGHT	
(2) DISTANCE FROM FLOOR TO PALLET DECK	
(3) DISTANCE FROM PALLET DECK TO TOP OF LIP	
(4) SLEEVE CHANNEL WIDTH	
(5) DISTANCE FROM BOTTOM OF SLEEVE CHANNEL TO TOP OF LIP	
(6) DISTANCE FROM FLOOR TO BOTTOM OF SLEEVE CHANNEL	
PRODUCTION REQUIREMENTS	
MATERIAL:	HOPE
START GAUGE:	200 / 200
DRAIN HOLES:	Ø: .16" 25 DIA
COLOR:	BLACK IS STANDARD

CONCEPT APPROVAL	
NAME:	DATE:
DRAWN:	DATE:
DESIGN:	DATE:
PATTERN:	DATE:
PROJECT MGR:	DATE:
MFG:	DATE:

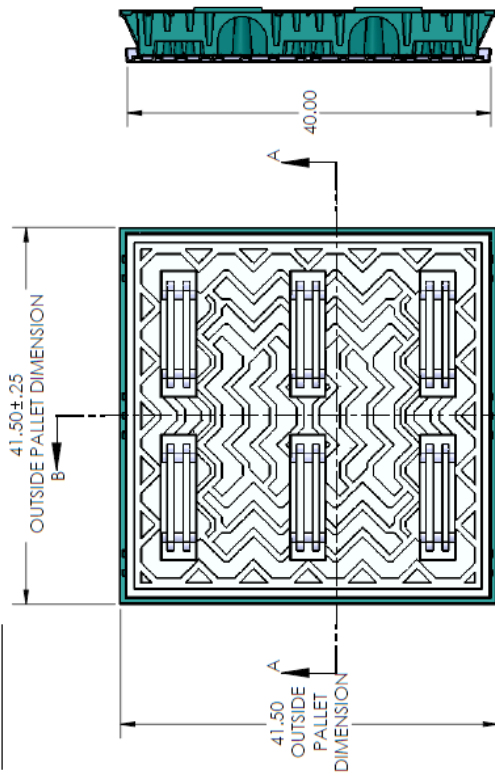
SOROC PRODUCTS	
CUSTOMER:	SOROC PRODUCTS
DESCRIPTION:	32 X 36 TWIN SHEET PALLET
SIZE:	DWG. NO. B
REV:	SPI-3236-TSP
SCALE:	1:8
WEIGHT:	
SHEET 1 OF 1	

PROPRIETARY AND CONFIDENTIAL
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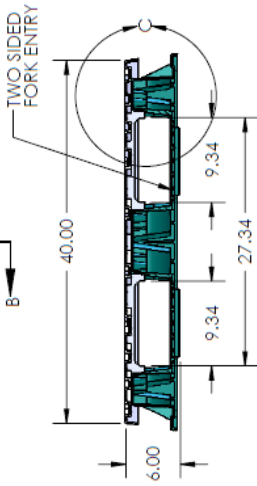
THE CONCEPT IS A REPRESENTATION OF PRODUCT EFF AND BENEFIT. MODIFICATION TO THE CONCEPT MAY BE MADE TO PROVIDE ADEQUATE MFG. AND/OR IMPROVE FUNCTION DURING TOOL BUILD.

NOTES:
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 2. ALL DRAFT ANGLES ARE 3° UNLESS OTHERWISE SPECIFIED.
 3. ALL DIMENSIONS ARE IN INCHES.

SPI-4040-TSP

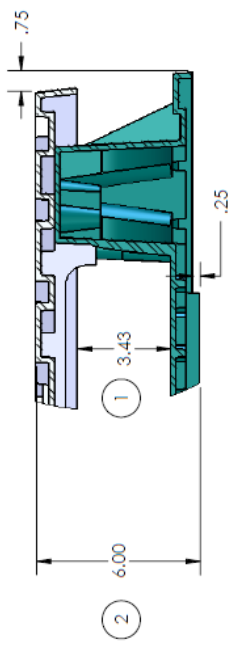


SECTION B-B
SCALE 1 : 12



SECTION A-A
SCALE 1 : 12

STANDARD PRODUCT INFORMATION	
DESCRIPTION:	40X40 TWIN SHEET PALLET: NO LIP, NO SLEEVE CHANNEL, 2 SIDED FORK ENTRY
SOROC PART#:	SPI-4040-TSP
SOROC TOOL#:	5183
PALLET O.D.:	41.5 X 41.5
PALLET I.D.:	40 X 40
SLEEVE I.D.:	NO SLEEVE CHANNEL
PALLET WEIGHT:	24.8
SEATBELT RETRACTOR SET:	NONE
(1) FORK OPENING HEIGHT	
(2) DISTANCE FROM FLOOR TO PALLET DECK	
PRODUCTION REQUIREMENTS	
MATERIAL:	HDPE
START GAUGE:	.200/.200
COLOR:	BLACK IS STANDARD



DETAIL C
SCALE 1 : 4

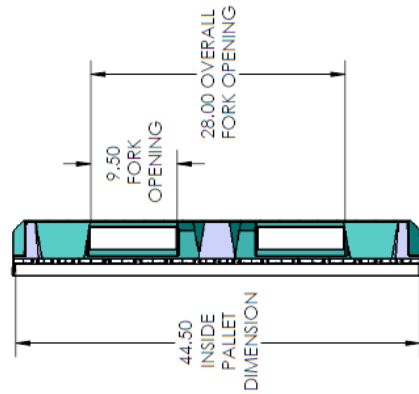
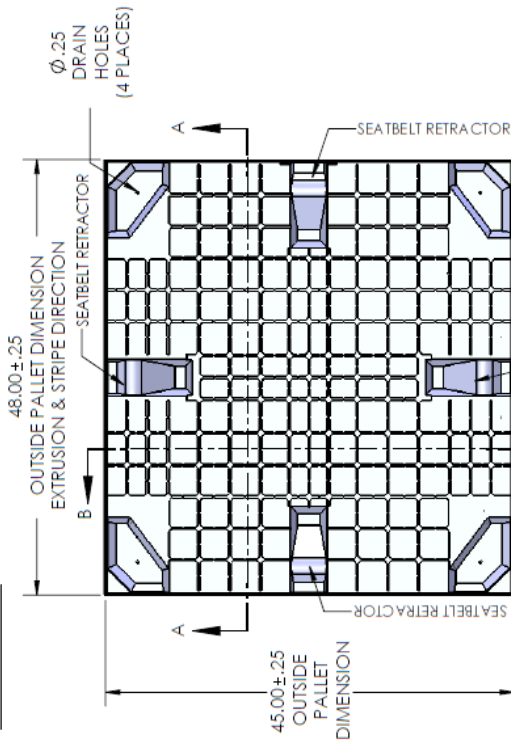
CONCEPT APPROVAL	
NAME	DATE
DRAWN / M/DECKER	8/12/2010
DESIGN	SOROC PRODUCTS
PATTERN	
PROJECT NAME	DESCRIPTION: 40 X 40 TWIN SHEET PALLET
MFG.	SIZE DWG. NO. B
	SPI-4040-TSP
	SCALE: 1:8
	WEIGHT:
	SHEET 1 OF 1

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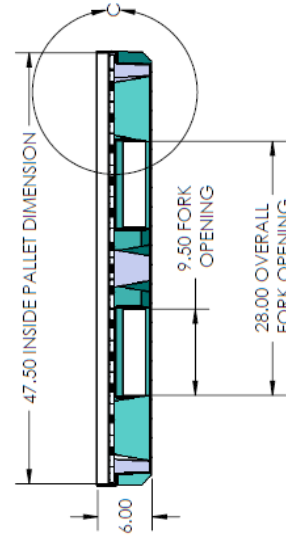
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- NOTES
1. TOLERANCES: ±.125 ON ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED.
 2. ALL DRAFT ANGLES ARE 3°-5° UNLESS OTHERWISE SPECIFIED.
 3. ALL DIMENSIONS ARE IN INCHES.

SPI-4548-TSP

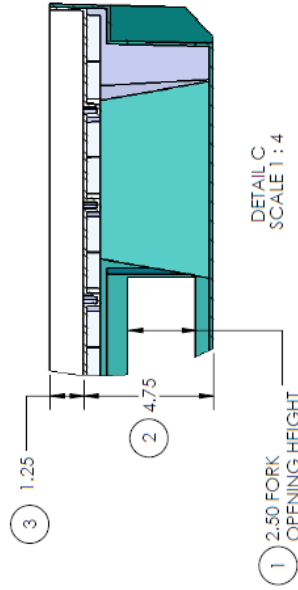


SECTION B-B



SECTION A-A

STANDARD PRODUCT INFORMATION	
DESCRIPTION:	45 X 48 TWIN SHEET PALLET
SOROC PART#:	SPI-4548-TSP
SOROC TOOL#:	5004
PALLET O.D.:	45 X 48
PALLET I.D.:	44.50 X 47.50
SLEEVE I.D.:	NO SLEEVE CHANNEL
PALLET WEIGHT:	31 LBS.
SEATBELT RETRACTOR SET:	YES - ON ALL FOUR SIDES
	USES PART# ESTP1797-201
(1) FORK OPENING HEIGHT	
(2) DISTANCE FROM FLOOR TO PALLET DECK	
(3) DISTANCE FROM PALLET DECK TO TOP OF LIP	
PRODUCTION REQUIREMENTS	
MATERIAL:	HDPE
START GAUGE:	2007/200
DRAIN HOLES:	QTY: 4; .25 DIA
COLOR:	BLACK IS STANDARD



CONCEPT APPROVAL	
NAME	DATE
DRAWN	IN/DECKER 8/12/2010
DESIGN	SOROC PRODUCTS
PATTERN	
PROJECT MGR	
MFG.	

SOROC PRODUCTS	
DESCRIPTION: 45 X 48 TWIN SHEET PALLET	
SIZE	DWG. NO.
B	SPI-4548-TSP
SCALE: 1:12	WEIGHT:
	SHEET 1 OF 1

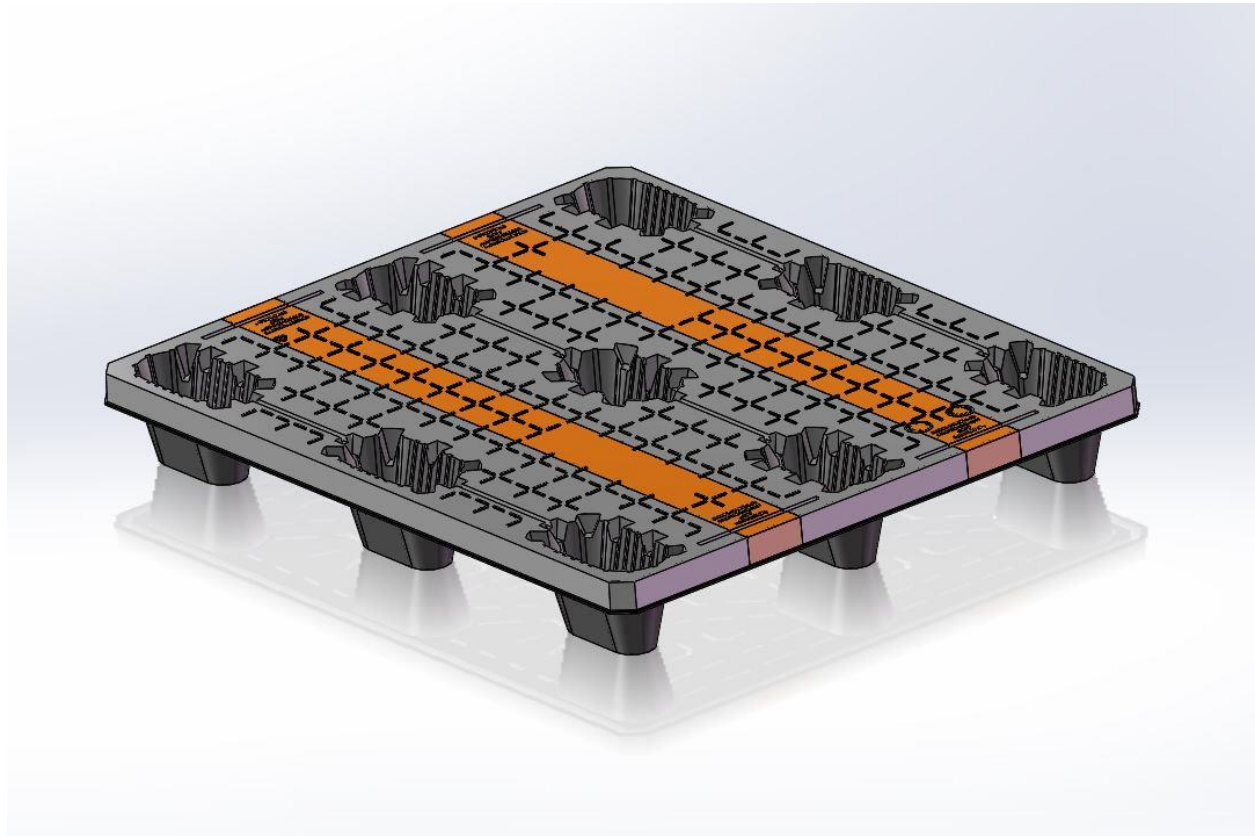
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MFG. AND/OR IMPROVE FUNCTION DURING TOOL BUILD.

NOTES:
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3. ALL DIMENSIONS ARE IN INCHES.

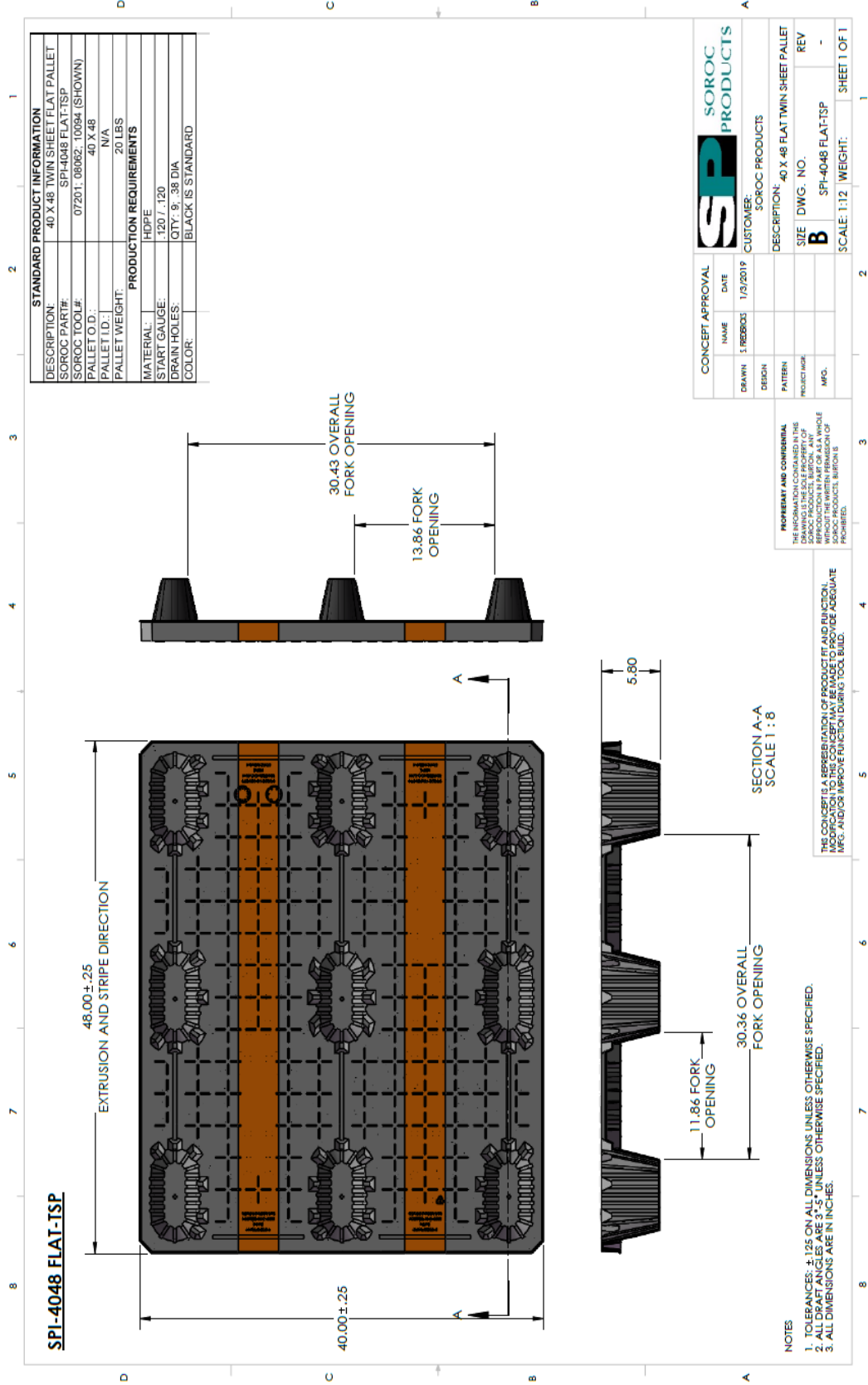
TWIN SHEET FLAT PALLET

See PDF on following page



Twin Sheet Flat Pallet					
NAME	DESC.	DIM. OD	DIM. ID	LID	WEIGHT
SPI-4048 FLAT-TSP	40 X 48	40.0 X 48.0	N/A	NONE	20

SPI-4048 FLAT-TSP



STANDARD PRODUCT INFORMATION

DESCRIPTION:	40 X 48 TWIN SHEET FLAT PALLET
SOROC PART#:	SPI-4048 FLAT-TSP
SOROC TOOL#:	07201, 08082, 10094 (SHOWN)
PALLET O.D.:	40 X 48
PALLET I.D.:	N/A
PALLET WEIGHT:	20 LBS
PRODUCTION REQUIREMENTS	
MATERIAL:	HDPE
START GAUGE:	120 / 120
DRAIN HOLES:	QTY: 9, 38 DIA
COLOR:	BLACK IS STANDARD

CONCEPT APPROVAL		SOROC PRODUCTS	
NAME	DATE	CUSTOMER	SOROC PRODUCTS
DESIGN	1/9/2019	DESCRIPTION:	40 X 48 FLAT TWIN SHEET PALLET
PATTERN		SIZE	DWG. NO.
PROJECT NO.		REV	B SPI-4048 FLAT-TSP
MFG.		SCALE:	1:12
		WEIGHT:	
			SHEET 1 OF 1

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SECTION A-A
 SCALE 1:8

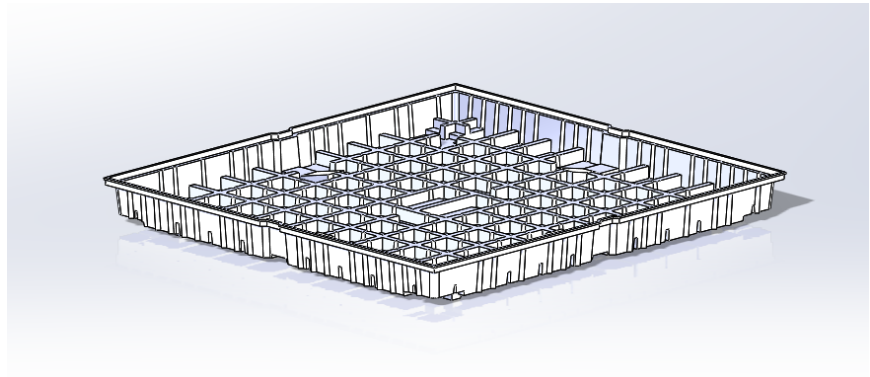
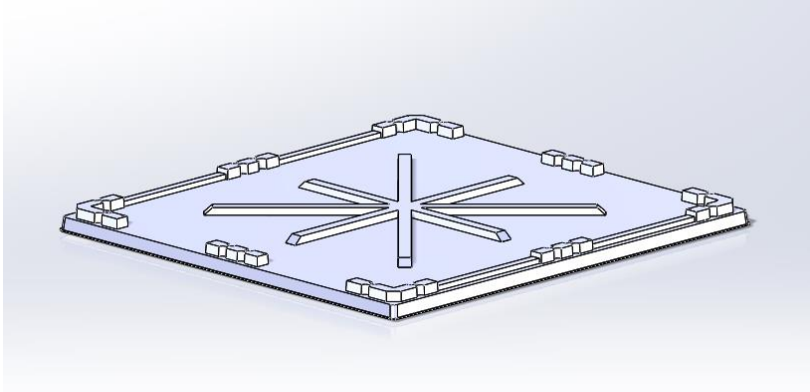
- NOTES**
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 2. ALL DRAFT ANGLES ARE 3° UNLESS OTHERWISE SPECIFIED.
 3. ALL DIMENSIONS ARE IN INCHES.

LIDS (ALL)

Product	Description	Seatbelt
SPI-3032-SSL	30 x 32	(2) On Width Sides
SPI-3236-SSL	32 x 36	(2) On Width Sides
SPI-4548-SSL	45 x 48	NO
SPI-2864-SSL	28 x 64	NO
SOL-4548-SSL	45 x 48	NO

SINGLE SHEET LIDS

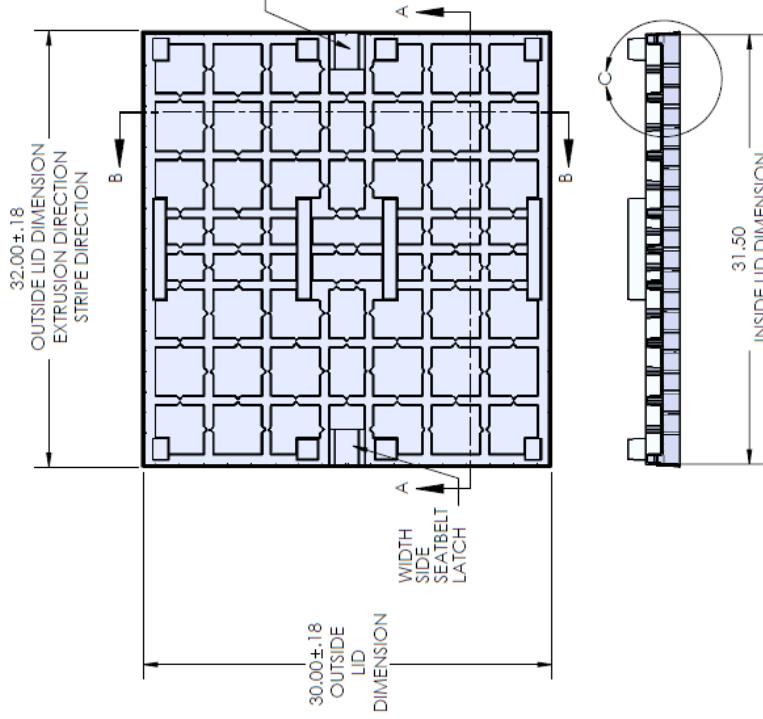
See PDF's on following pages



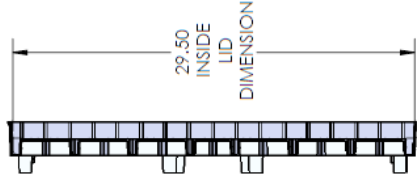
Single Sheet Lids

NAME	DESC.	DIM. OD	DIM. ID	PALLET	WEIGHT
SPI-3032-SSL	30 x 32	30 x 32	29.5 x 31.5	SPI-3032-TSP	6.2
SPI-3236-SSL	32 x 36	33 x 37	32.5 x 36.5	SPI-3236-TSP	7.5
SPI-4548-SSL	45 x 48	45.5 x 48.5	44.75 x 47.75	N/A	14.3
SPI-2864-SSL	28 x 64	28.5 x 64.5	28 x 64	SPI-2864-SSP	16.9
SOL-4548-SSL	45 x 48	47 x 50	45 x 48	SPI-4548-SSP	15.2

SPI-3032-SSL



STANDARD PRODUCT INFORMATION	
DESCRIPTION:	30 X 32 SINGLE SHEET LID USED WITH SPI-3032-TSP
SOROC PART#:	SPI-3032-SSL
SOROC TOOL#:	5103
LID O.D.:	30 X 32
LID I.D.:	29.5 X 31.5
PALLET WEIGHT:	6.2 LBS
SEATBELT RETRACTOR SET:	YES - ON THE WIDTH SIDES USES PART# ESTP1797-201
(1) INSIDE DEPTH DIMENSION	
(2) OVERALL LID HEIGHT	
PRODUCTION REQUIREMENTS	
MATERIAL:	HDPE
START GAUGE:	0.18
COLOR:	BLACK IS STANDARD

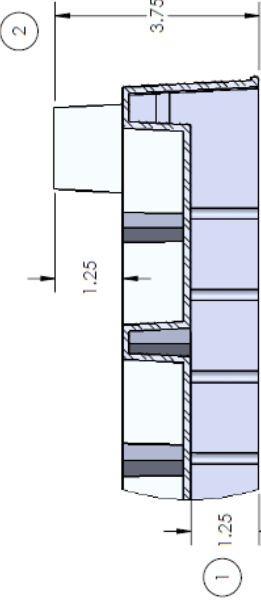


SECTION B-B



SECTION A-A

DETAIL C
SCALE 1:2



CONCEPT APPROVAL	
NAME	DATE
DRAWN	IN/DECKER
DESIGN	11/10/2009
PATTERN	CUSTOMER:
PROJECT MGR	SOROC PRODUCTS
MFG.	

DESCRIPTION: 30 X 32 SINGLE SHEET LID	
SIZE	DWG. NO.
B	
REV	
SCALE: 1:8	WEIGHT:
	SHEET 1 OF 1

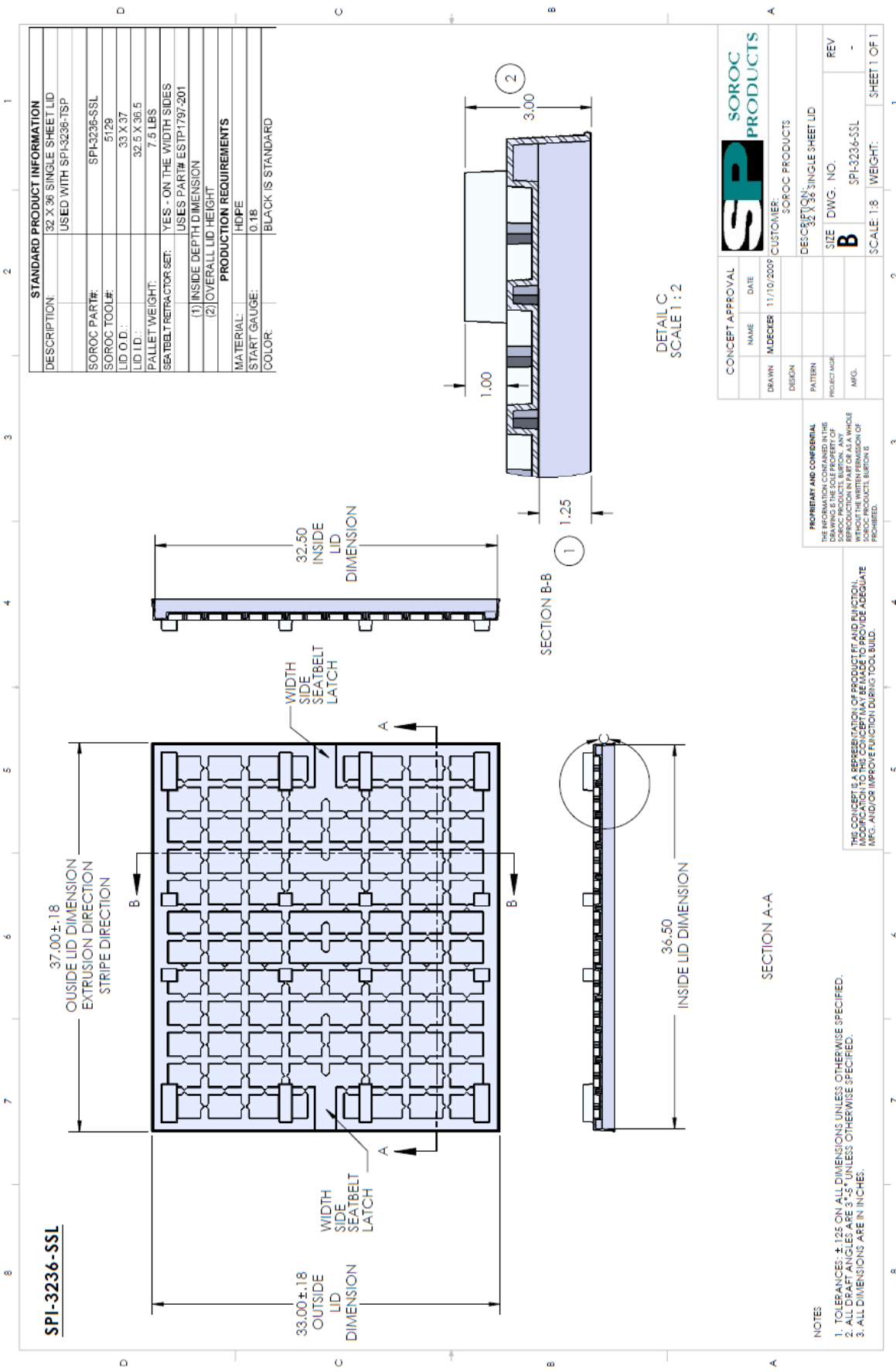
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 2. ALL DRAFT ANGLES ARE 5° UNLESS OTHERWISE SPECIFIED.
 3. ALL DIMENSIONS ARE IN INCHES.

SPI-3236-SSL

STANDARD PRODUCT INFORMATION	
DESCRIPTION:	32 X 36 SINGLE SHEET LID USED WITH SPI3236-TSP
SOROC PART#:	SPH-3236-SSL
SOROC TOOL#:	5128
LID O.D.:	33 X 37
LID I.D.:	32.5 X 36.5
PALETT WEIGHT:	7.5 LBS
SEATBELT RETRACTOR SET:	YES - ON THE WIDTH SIDES USES PART# ESTP-1797-201
(1) INSIDE DEPTH DIMENSION	
(2) OVERALL LID HEIGHT	
PRODUCTION REQUIREMENTS	
MATERIAL:	HDPPE
START GAUGE:	0.1B
COLOR:	BLACK IS STANDARD



DETAIL C
SCALE 1 : 2

CONCEPT APPROVAL	
NAME	DATE
DRAWN	M/D/REV
DESIGN	CUSTOMER
PATTERN	SOROC PRODUCTS
PROJECT NAME	DESCRIPTION:
MFG.	SIZE DWG. NO.
	REV
	SCALE: 1:8
	WEIGHT:
	SHEET 1 OF 1

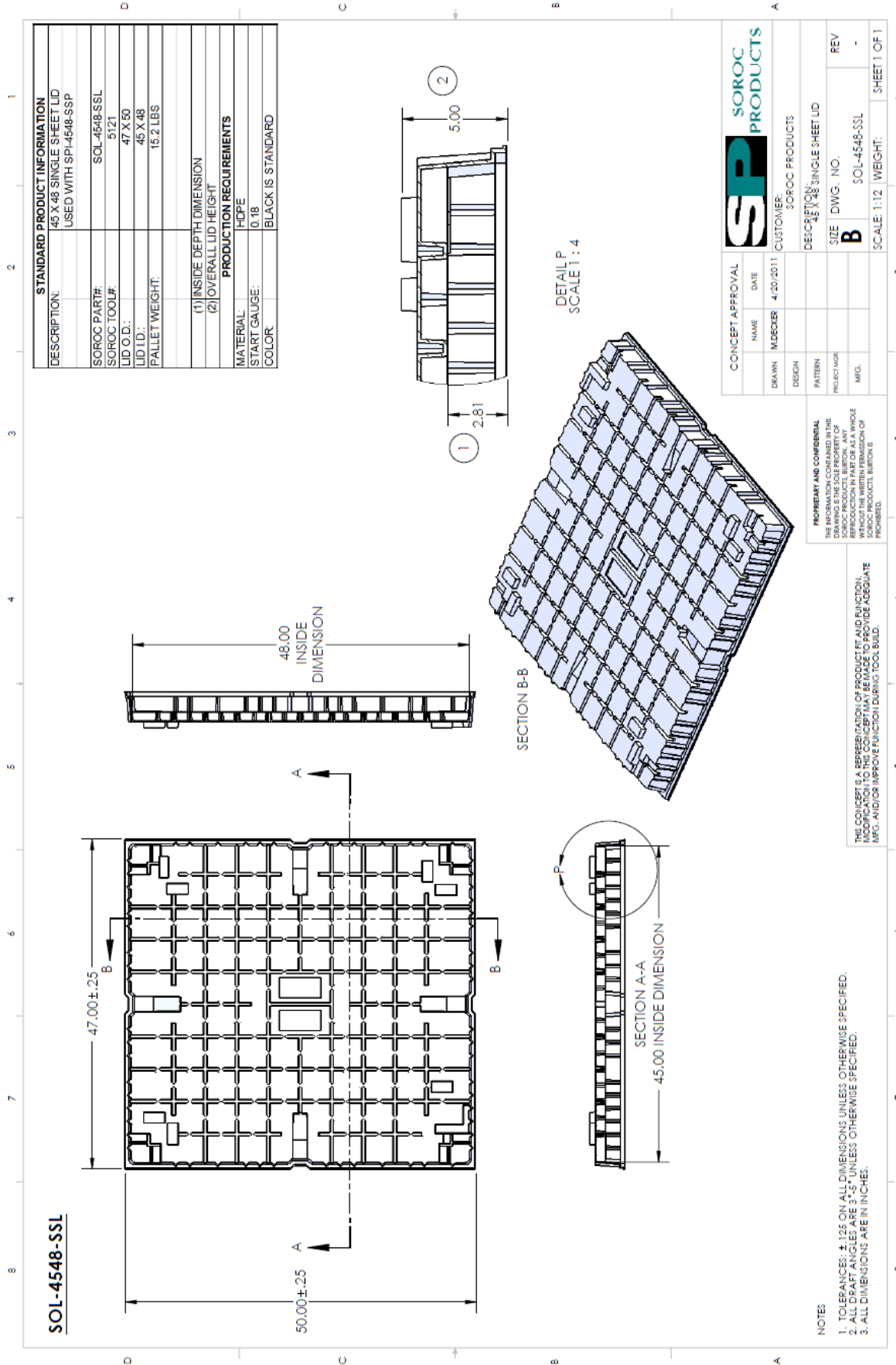
SP SOROC PRODUCTS

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- NOTES
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 3. ALL DIMENSIONS ARE IN INCHES.

SOL-4548-SSL



STANDARD PRODUCT INFORMATION	
DESCRIPTION:	45 X 48 SINGLE SHEET LID USED WITH SP-4548-SSP
SOROC PART#:	SOL-4548-SSL
SOROC TOOL#:	5121
LID O.D.:	47 X 50
LID I.D.:	45 X 48
PALLET WEIGHT:	15.2 LBS
(1) INSIDE DEPTH DIMENSION	
(2) OVERALL LID HEIGHT	
PRODUCTION REQUIREMENTS	
MATERIAL:	HDPE
START GAUGE:	0.18
COLOR:	BLACK IS STANDARD

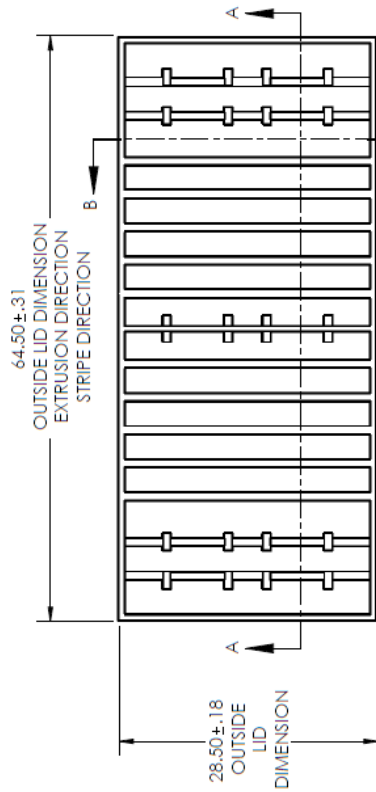
CONCEPT APPROVAL	
NAME	DATE
DRAWN	M. DECKER 4/20/2011
DESIGN	
PATTERN	
PRODUCT MFG.	
CUSTOMER:	SOROC PRODUCTS
DESCRIPTION:	45 X 48 SINGLE SHEET LID
SIZE	DWG. NO.
B	SOL-4548-SSL
SCALE	1:12
WEIGHT:	
SHEET 1 OF 1	

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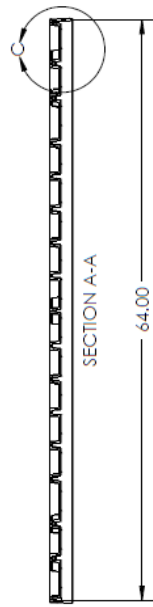
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 3. ALL DIMENSIONS ARE IN INCHES.

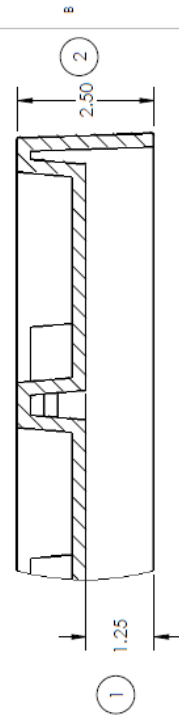
SPI-2864-SSL



SECTION B-B



SECTION A-A



STANDARD PRODUCT INFORMATION	
DESCRIPTION:	28 X 64 SINGLE SHEET LID USED WITH SPI-2864-SSP
SOROC PART#:	SPI-2864-SSL
SOROC TOOL#:	5006
PALLET I.D.:	28.5 X 64.5
PALLET WEIGHT:	16.9 LBS
(1) INSIDE DEPTH DIMENSION	
(2) OVERALL LID HEIGHT	
PRODUCTION REQUIREMENTS	
MATERIAL:	HDPE
START GAUGE:	0.18
COLOR:	BLACK IS STANDARD

DETAIL C
SCALE 1:2

CONCEPT APPROVAL			CUSTOMER: SOROC PRODUCTS	DESCRIPTION: 28 X 64 SINGLE SHEET PALLET	REV
NAME	DATE				
DRAWN	M/DECKER	11/10/2009	B	SPI-2864-SSL	-
DESIGN	PATERN				
	PROJECT MGR				
	MFG.				
			SCALE: 1:12	WEIGHT:	SHEET 1 OF 1

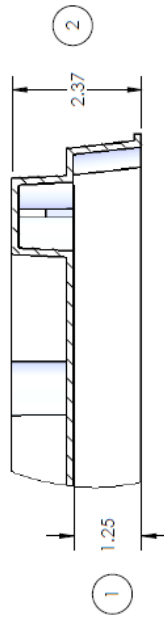
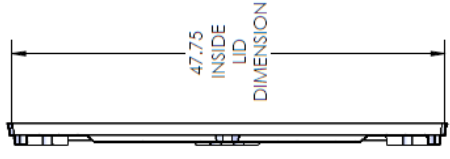
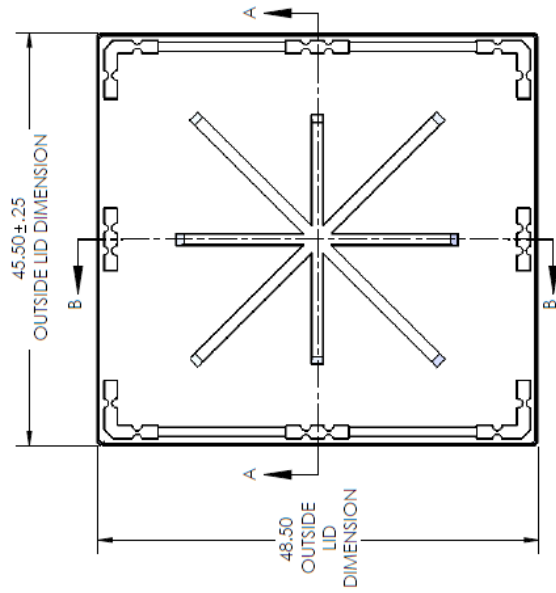
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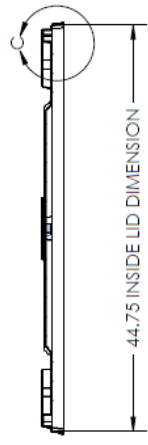
SPI-4548-SSL

STANDARD PRODUCT INFORMATION	
DESCRIPTION:	45 X 48 SINGLE SHEET LID
SOROC PART#:	SPI-4548-SSL
SOROC TOOL#:	5106
PALLET O.D.:	45.5 X 48.5
PALLET I.D.:	44.75 X 47.75
PALLET WEIGHT:	14.3 LBS
(1) INSIDE DEPTH DIMENSION	
(2) OVERALL LID HEIGHT	
PRODUCTION REQUIREMENTS	
MATERIAL:	HDPE
START GAUGE:	0.18
COLOR:	BLACK IS STANDARD



DETAIL C
SCALE 1:2

SECTION A-A



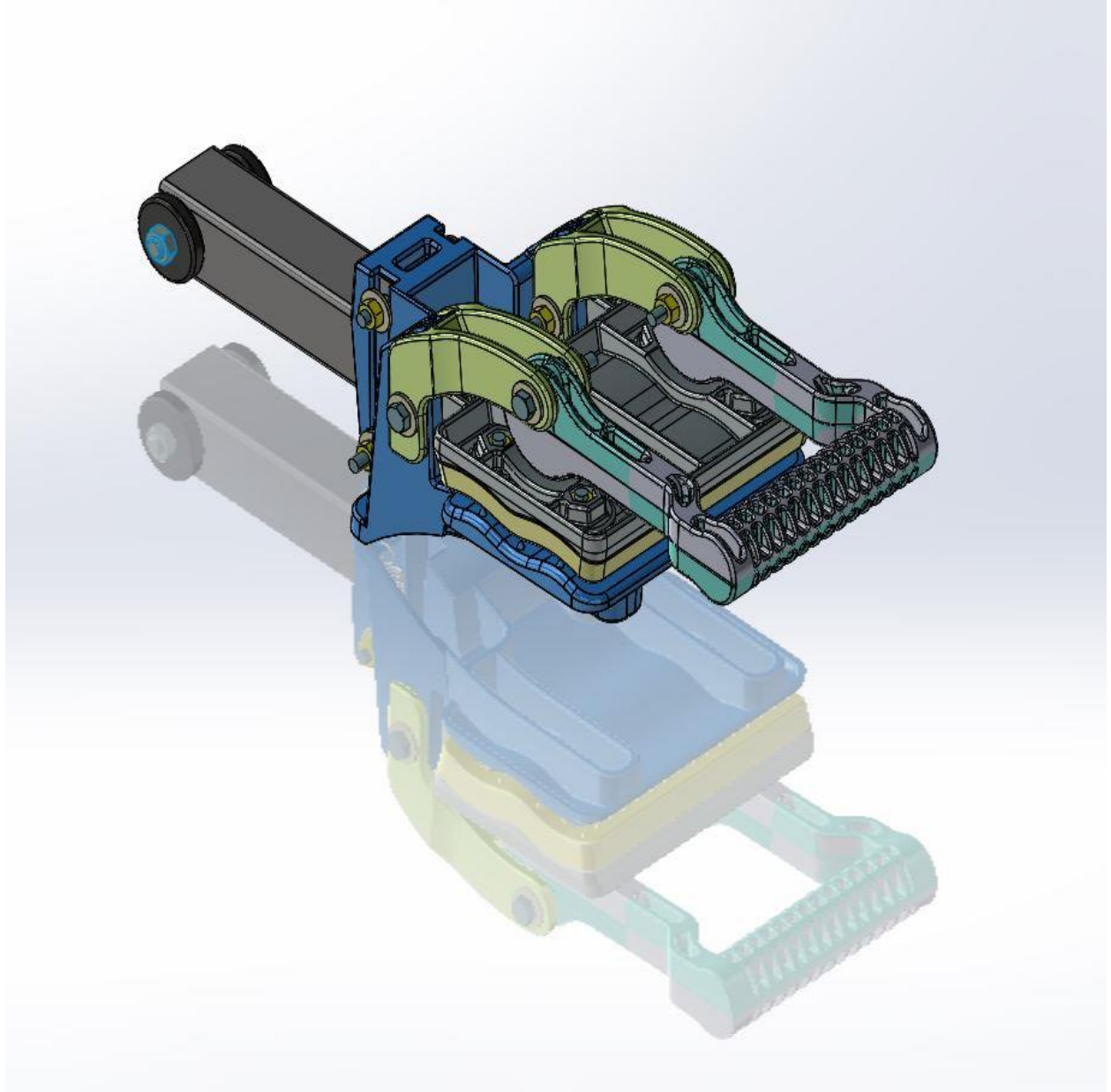
- NOTES
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 3. ALL DIMENSIONS ARE IN INCHES.

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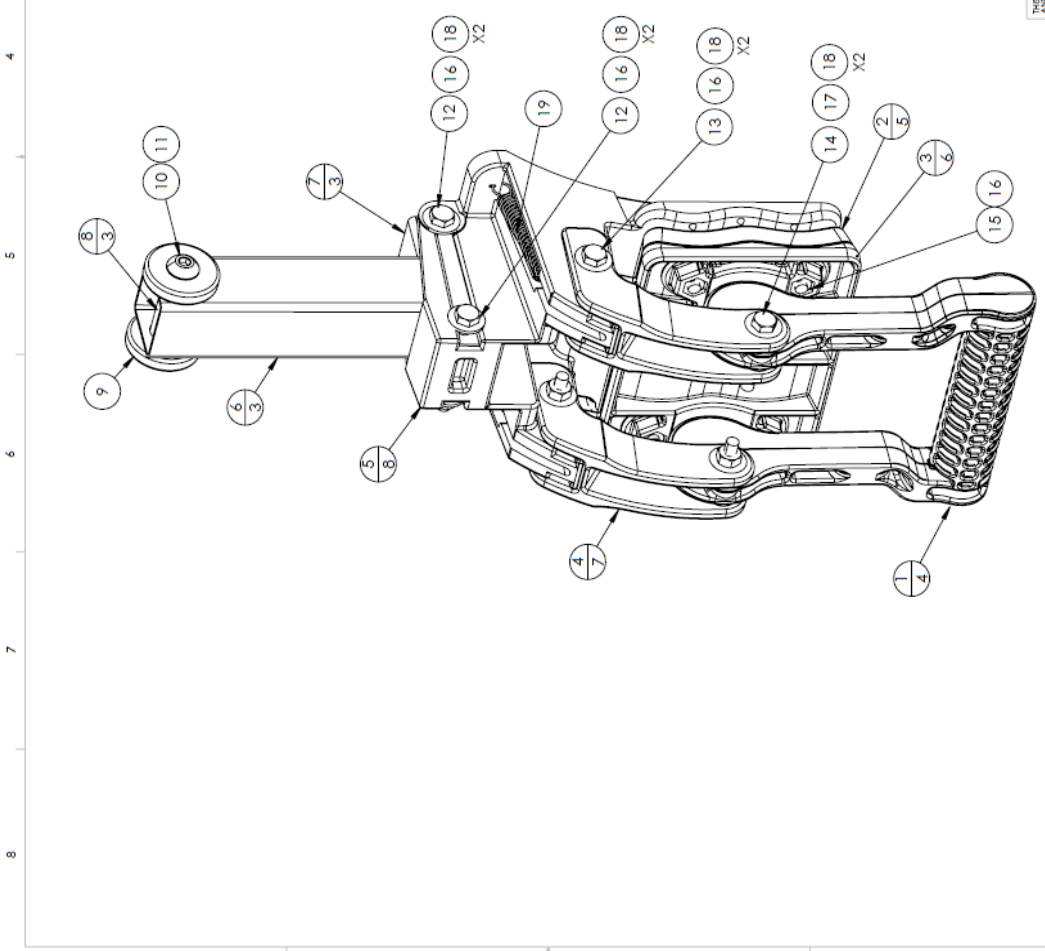
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CONCEPT APPROVAL		SOROC PRODUCTS	
NAME	DATE	DESIGNER	CUSTOMER
BROWN	11/11/2009		SOROC PRODUCTS
DESIGN		PATTERN	DESCRIPTION: 45 X 48 SINGLE SHEET LID
		PRODUCTION	SIZE DWG. NO. B
		MFG.	SPI-4548-SSL
			SCALE: 1:12 WEIGHT: SHEET 1 OF 1

CARPET CLAMP



DET.	QTY.	SHT.	DESCRIPTION
1	1	1,2,4	CLAMP HANDLE
2	1	1,2,5	CLAMP JAW PAD
3	1	1,2,6	CLAMP JAW BASE
4	2	1,2,7	CLAMP SWING ARM
5	1	1,2,8	CLAMP MAIN BODY
6	1	1,2,3	1.50 SQ. X .1863 X 5.50 LG. - STL. TUBING (ZINC PLATED)
7	1	1,2,3	1.6ga. (.061) X DEV. WIDTH X 3.63 LG. - H.R.S. (ZINC PLATED)
8	1	1,2,3	.625 OD X .120 W/T X .385 ID X 1.56 LG. - RD MECH TUBING (ZINC PLATED)
9	2	1,2	CB-06245.5-95UR BEARING - FAIRPLANE PRODUCTS
10	1	1,2	3/8-16 X 2.50 LG. - BUTTON HEAD HEX DRIVE SCREW (ZINC PLATED)
11	1	1,2	3/8-16 BI - LOCK JAW NUT
12	2	1,2	1/4-20 X 2.50 LG. - GRADE 5 HEX HEAD CAP SCREW
13	2	1,2	1/4-20 X 2.0 LG. - GRADE 5 HEX HEAD CAP SCREW
14	2	1,2	1/4-20 X 1.50 LG. - GRADE 5 HEX HEAD CAP SCREW W/ LOCK PATCH
15	4	1,2	1/4-20 X .63 LG. - GRADE 5 HEX HEAD CAP SCREW
16	8	1,2	1/4-20 GRADE 5 BI LOCK 2 - WAY NUT
17	2	1,2	1/4-20 GRADE 5 ACORN NUT
18	12	1,2	1/4 DIA. SAE FLAT WASHER
19	2	1,2	CENTURY SPRING - # 2309 (OR EQUIV.)



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SOROC PRODUCTS

CUSTOMER: _____

DATE: 11/2/2018

DESCRIPTION: CARPET CLAMP ASSEMBLY

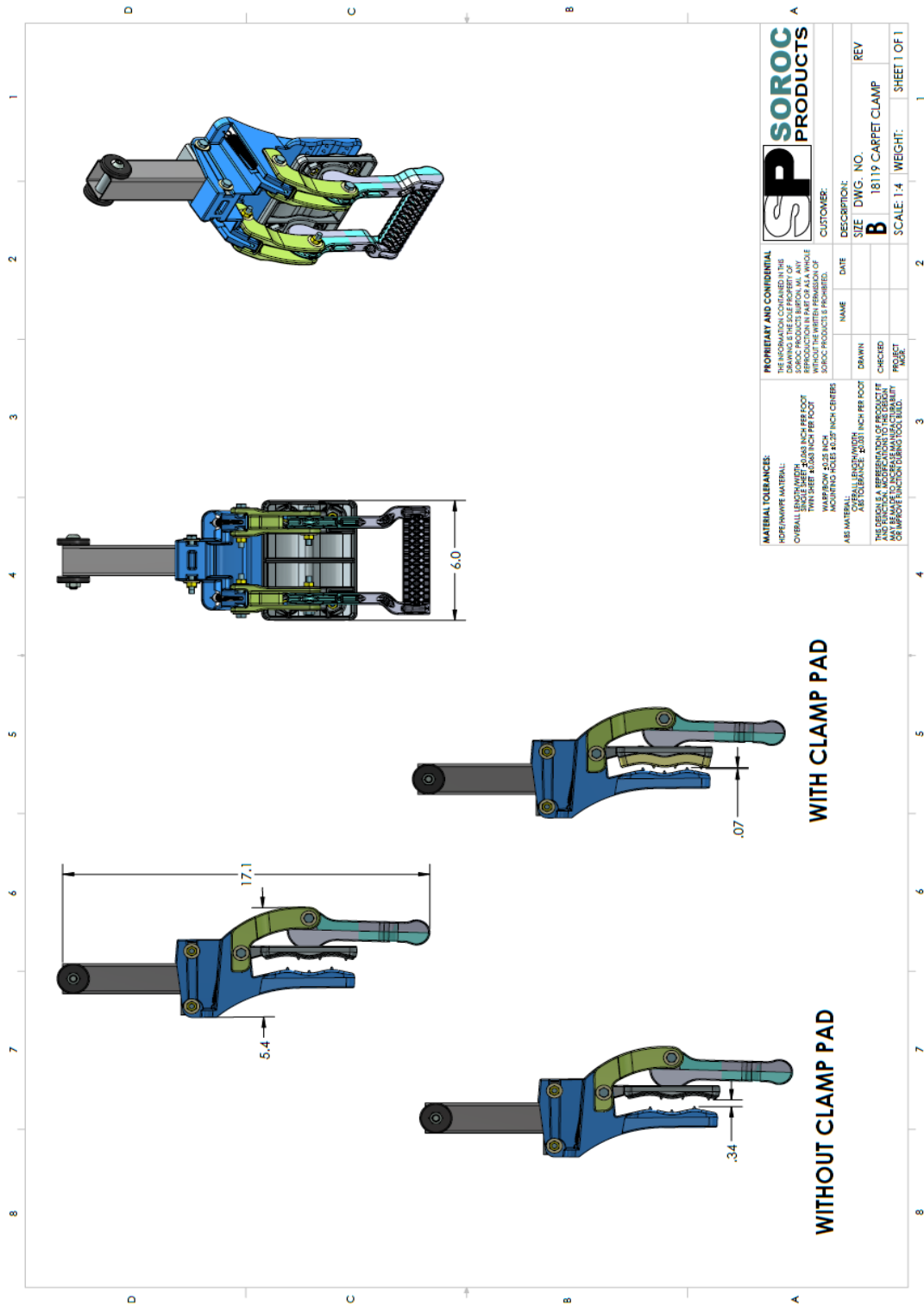
REV: _____

SIZE: DWG. NO. **B**

PROJECT: CARPET CLAMP ASSEMBLY **C**

SCALE: 1:2 | WEIGHT: _____ | SHEET 1 OF 8

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MATERIAL TOLERANCE: ROPERWARE MATERIAL: OVERALL LENGTH: .005 INCH PER FOOT OVERALL WIDTH: .005 INCH PER FOOT TWIN SHEET: .005 INCH PER FOOT MATERIAL: .005 INCH PER FOOT		DESCRIPTION: SIZE DWG. NO. REV B 18119 CARPET CLAMP	
ALL MATERIAL: OVERALL LENGTH: .005 INCH PER FOOT OVERALL WIDTH: .005 INCH PER FOOT TWIN SHEET: .005 INCH PER FOOT MATERIAL: .005 INCH PER FOOT		CUSTOMER: NAME DATE DRAWN CHECKED PROJECT	
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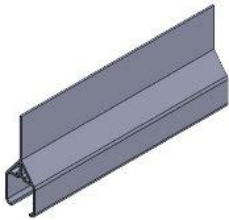
ENTERPRISES

— INCORPORATED —

EST. 1977

"SNAP ON" RETAINERS

Page 1



CD - 075



CD - 150



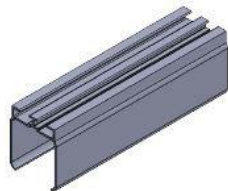
CD - 151



CD - 152



CD - 155



CD - 156



CD - 157



CD - 158



CD-159



CD-160



CD-161



CD-162

"SNAP ON" RETAINERS

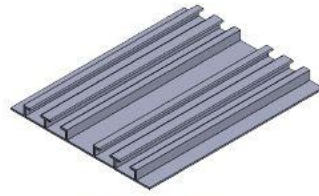
Page 2



CD-163



CD-165



CD-168



CD-169



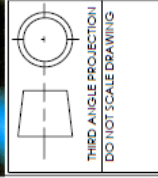
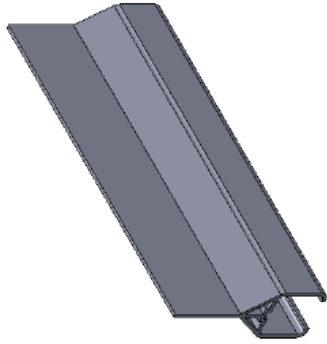
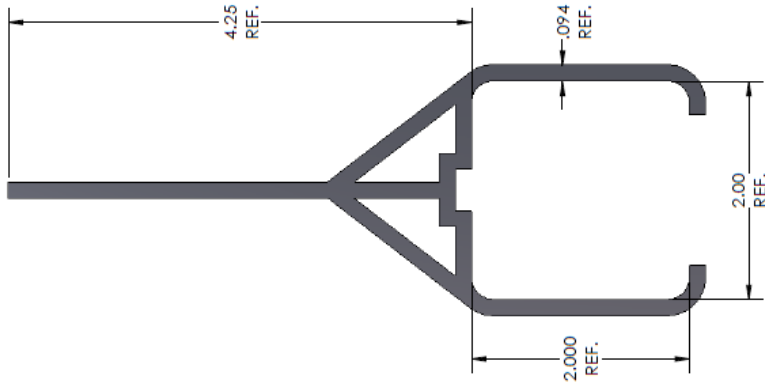
CD-170



CD-171

1 2 3 4 5 6 7 8

REV.		REVISIONS		DATE	APPROVED
		DESCRIPTION			



1929 NORTH OPDYKE
 AUBURN HILLS, MI
 48326-2664
 PHONE (248) 373-0011
 FAX (248) 373-3470

ISO 9001:2000 Registered

MATERIALS: HIGH IMPACT PVC

TITLE:

SNAP ON DUNNAGE
 2.00 SQ. TUBING

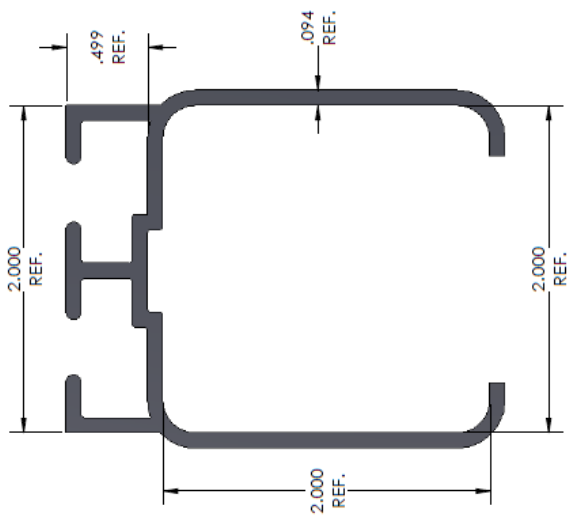
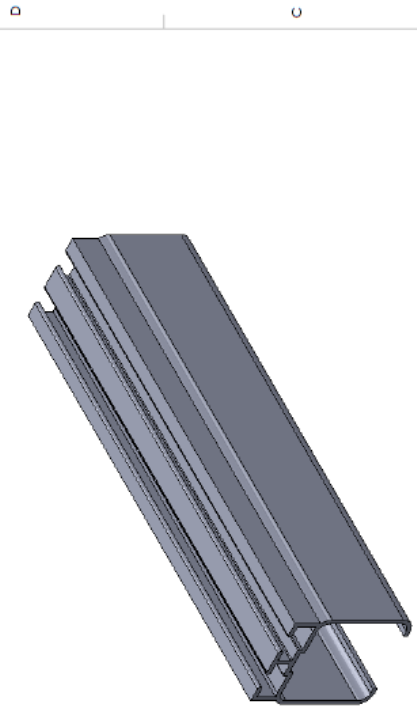
C&D#: CD-075

DATE: 4/27//2016

NOTE:
 THE "SNAP ON DUNNAGE" RETAINER SYSTEM IS A PATENTED,
 PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS,
 INCLUDING BUT NOT LIMITED TO URETHANE, INJECTION MOLDED
 OR FABRICATED MATERIALS.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		

1 2 3 4 5 6 7 8



NOTE:
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THIRD ANGLE PROJECTION
 DO NOT SCALE DRAWING

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 AUBURN HILLS, MI
 48326-2664
 PHONE (248) 373-0011
 FAX (248) 373-3470

ISO 9001:2000 Registered

MATERIALS: HIGH IMPACT PVC

TITLE:

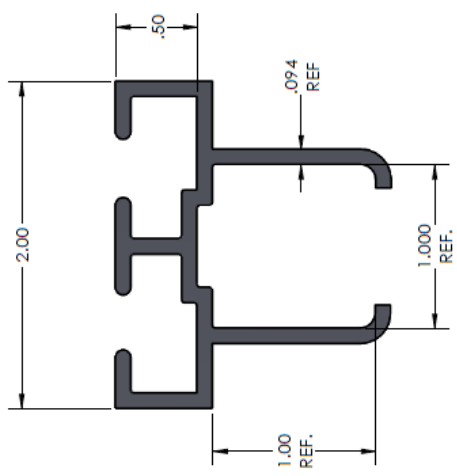
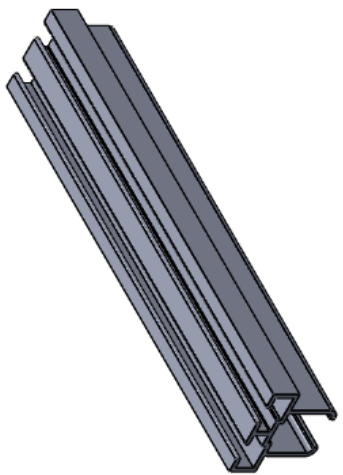
SNAP ON DUNNAGE
 2.00 SQ. TUBING

C&D#: CD-150
DATE: 4/27/2016

D C B A 6 7 8

1 2 3 4 5 6 7 8

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



1929 NORTH OPDYKE
 AUBURN HILLS, MI
 48326-2664
 PHONE (248) 373-0011
 FAX (248) 373-3470

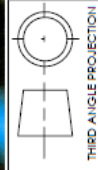
ISO 9001:2000 Registered

MATERIALS: HIGH IMPACT PVC

TITLE:

SNAP ON DUNNAGE
 1.00 SQ. TUBING

C&D#: CD-151
DATE: 5/02/2016

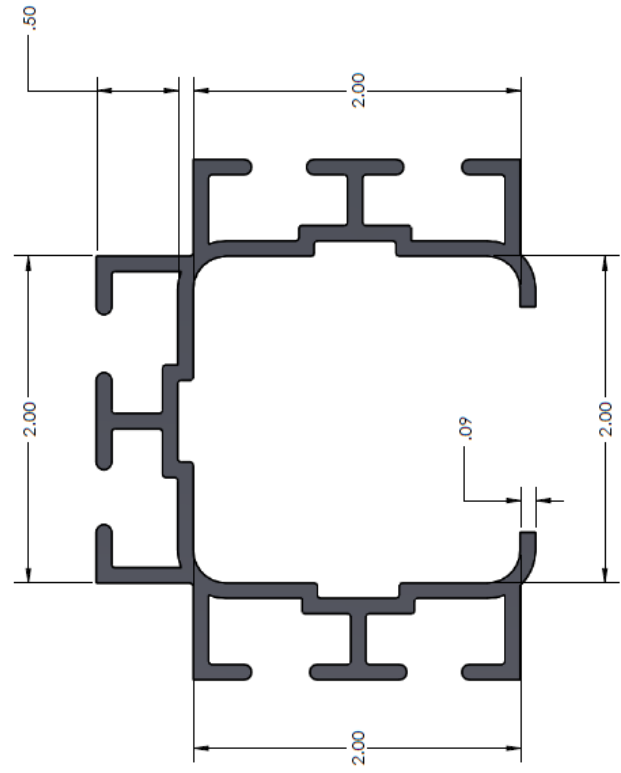
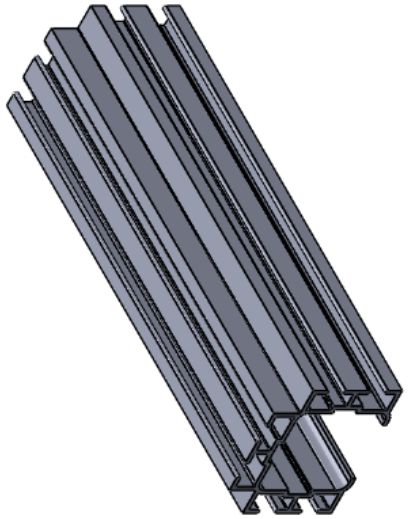


NOTE:
 THE "SNAP ON DUNNAGE" RETAINER SYSTEM IS A PATENTED,
 PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS,
 INCLUDING BUT NOT LIMITED TO URETHANE, INJECTION MOLDED
 OR FABRICATED MATERIALS.

6 7 8

1 2 3 4 5 6 7 8

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



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 AUBURN HILLS, MI
 48326-2664
 PHONE (248) 373-0011
 FAX (248) 373-3470

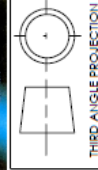
ISO 9001:2000 Registered

MATERIALS: HIGH IMPACT PVC

TITLE:

SNAP ON DUNNAGE
 2.00 SQ. TUBING

C&D#: CD-152
DATE: 5/02/2016

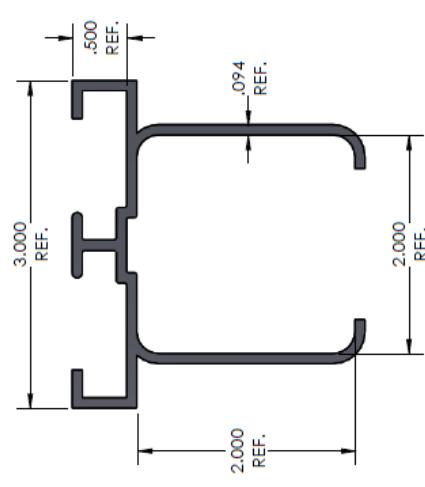
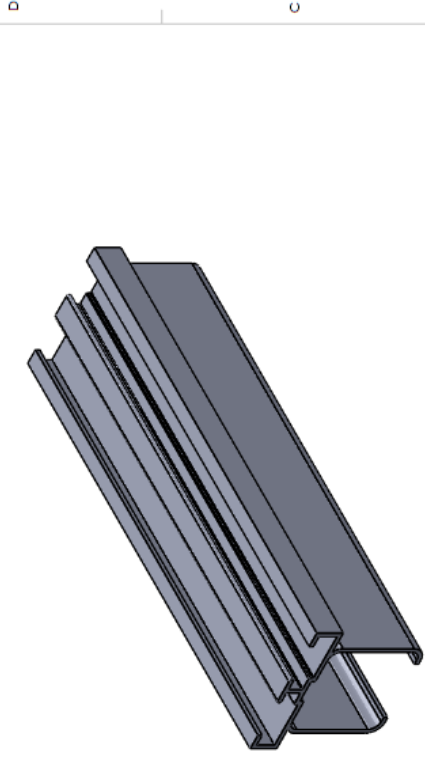


THIRD ANGLE PROJECTION
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 OR FABRICATED MATERIALS.

6 7 8

REV.		DESCRIPTION		DATE		APPROVED	



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 FAX (248) 373-3470

ISO 9001:2000 Registered

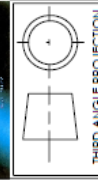
MATERIALS: HIGH IMPACT PVC

TITLE:

SNAP ON DUNNAGE
 2.00 SQ. TUBING

C&D#:
 CD-155

DATE:
 5/02/2016

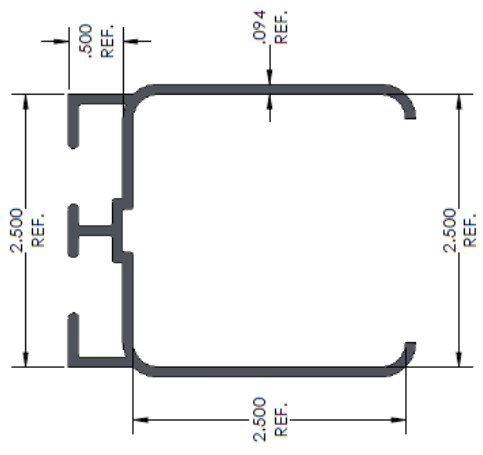
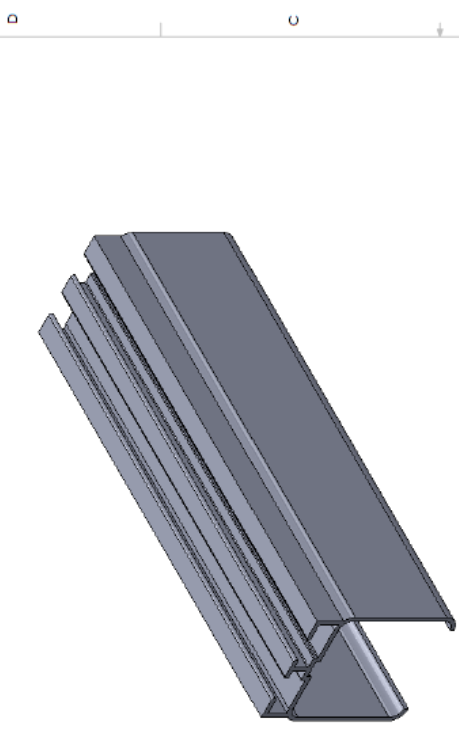


THIRD ANGLE PROJECTION
 DO NOT SCALE DRAWING

NOTE:
 THE "SNAP ON DUNNAGE" RETAINER SYSTEM IS A PATENTED,
 PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS,
 INCLUDING BUT NOT LIMITED TO URETHANE, INJECTION MOLDED
 OR FABRICATED MATERIALS.

1 2 3 4 5 6 7 8

REVISIONS		
REV.	DESCRIPTION	DATE



NOTE:
 THE "SNAP ON DUNNAGE" RETAINER SYSTEM IS A PATENTED,
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 AUBURN HILLS, MI
 48306-2664
 PHONE (248) 373-0011
 FAX (248) 373-3470



ISO 9001:2000 Registered

MATERIALS: HIGH IMPACT PVC

TITLE:

SNAP ON DUNNAGE
 2.50 SQ. TUBING



THIRD ANGLE PROJECTION
 DO NOT SCALE DRAWING

C&D#:

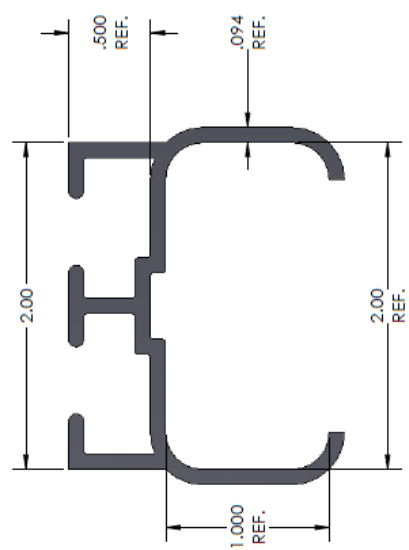
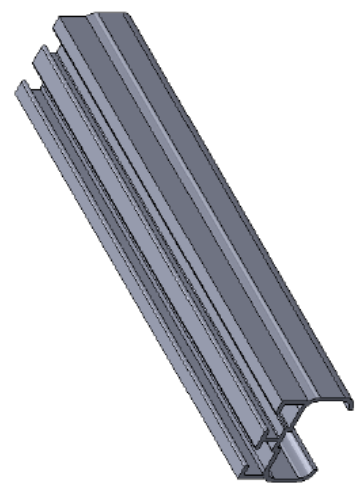
CD-156

DATE:

5/02/2016

1 2 3 4 5 6 7 8

REVISIONS		
REV.	DESCRIPTION	DATE



NOTE:
 THE "SNAP ON DUNNAGE" RETAINER SYSTEM IS A PATENTED,
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 OR FABRICATED MATERIALS.



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 AUBURN HILLS, MI
 48326-2664
 PHONE (248) 373-0011
 FAX (248) 373-3470

ISO 9001:2000 Registered

MATERIALS: HIGH IMPACT PVC

TITLE:

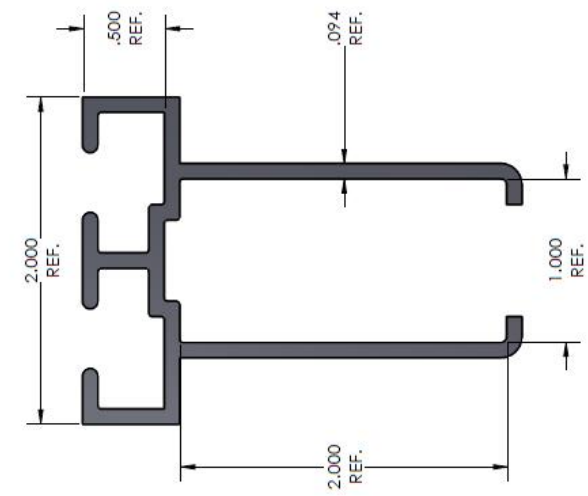
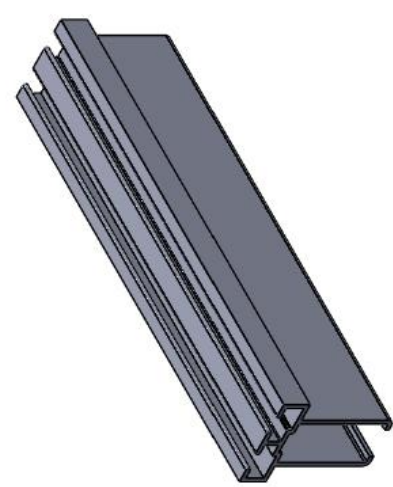
SNAP ON DUNNAGE
 2.00 X 1.00 TUBING



THIRD ANGLE PROJECTION
 DO NOT SCALE DRAWING

C&D#: CD-157
 DATE: 5/03/2016

REV.		REVISIONS		DATE	APPROVED
1	2	3	4	5	6



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 AUBURN HILLS, MI
 48326-2664
 PHONE (248) 373-0011
 FAX (248) 373-3470

ISO 9001:2000 Registered

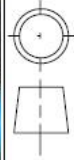
MATERIALS: HIGH IMPACT PVC

TITLE:

SNAP ON DUNNAGE
 2.00 X 1.00 TUBING

C&D#: CD-158

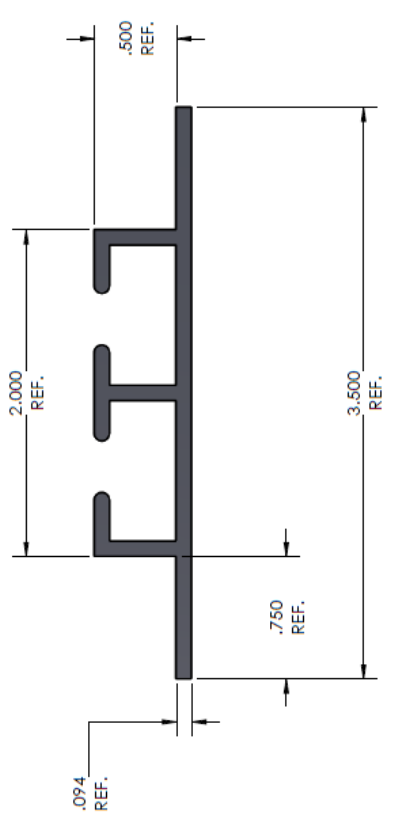
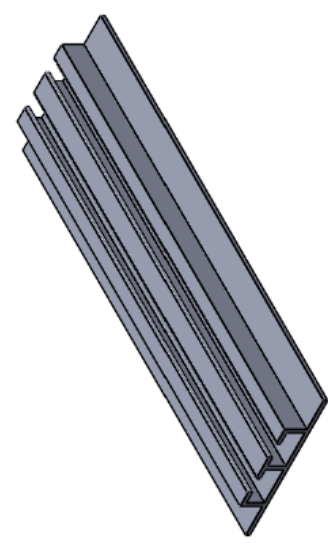
DATE: 5/03/2016



THIRD ANGLE PROJECTION
 DO NOT SCALE DRAWING

NOTE:
 THE "SNAP ON DUNNAGE" RETAINER SYSTEM IS A PATENTED,
 PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS,
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 OR FABRICATED MATERIALS.

REV.	DESCRIPTION	DATE	APPROVED
1			



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ISO 9001:2000 Registered

MATERIALS: HIGH IMPACT PVC

TITLE:

SNAP ON DUNNAGE
 FLAT PROFILE

C&D#:

CD-159

DATE:

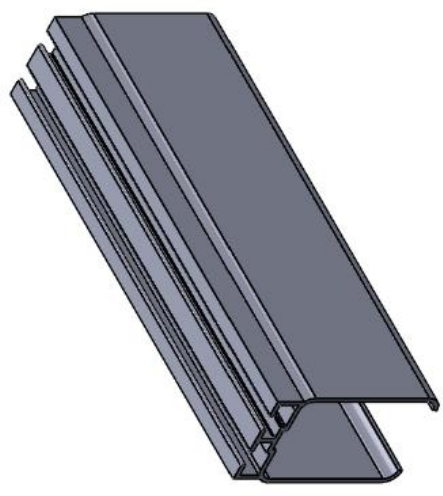
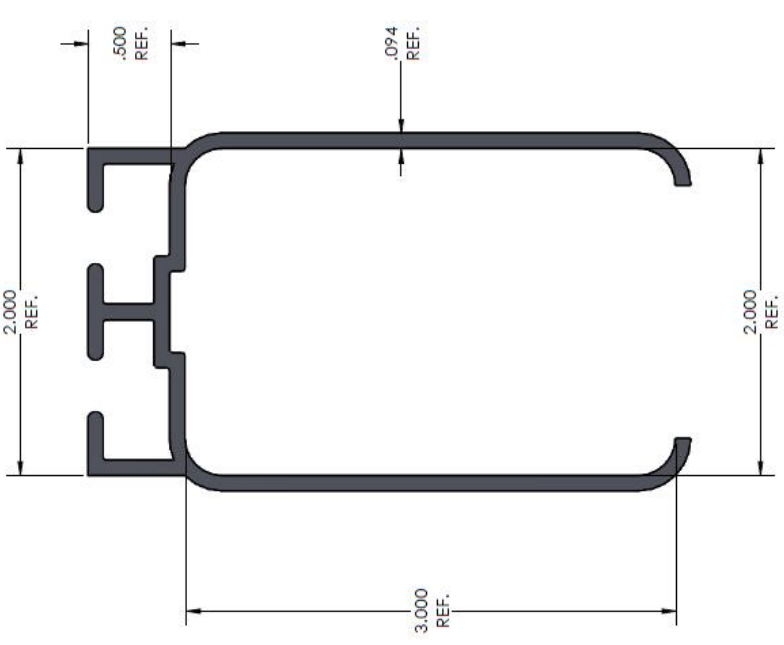
5/03/2016



THIRD ANGLE PROJECTION
 DO NOT SCALE DRAWING

NOTE:
 THE "SNAP ON DUNNAGE" RETAINER SYSTEM IS A PATENTED,
 PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS,
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 OR FABRICATED MATERIALS.

REV.		REVISIONS		DATE	APPROVED



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 AUBURN HILLS, MI
 48324-2664
 PHONE (248) 373-0011
 FAX (248) 373-3470

ISO 9001:2000 Registered

MATERIALS: HIGH IMPACT PVC

TITLE:

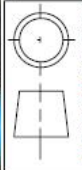
SNAP ON DUNNAGE
 3.00 X 2.00 TUBING

C&D#:

CD-160

DATE:

5/3/2016

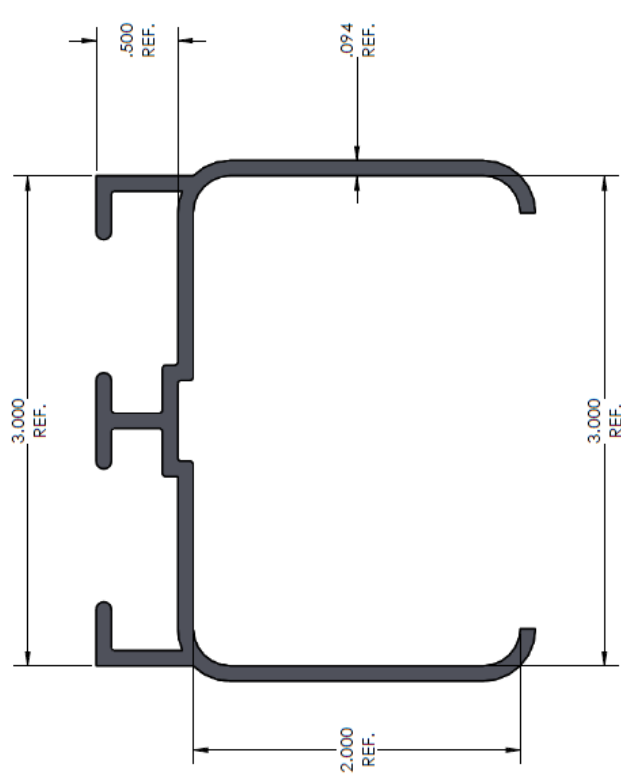
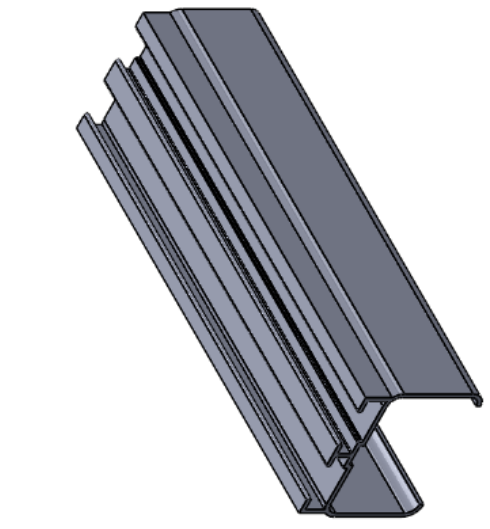


THIRD ANGLE PROJECTION
 DO NOT SCALE DRAWING

NOTE:
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 OR FABRICATED MATERIALS.

REV.		REVISIONS		DATE	APPROVED

1	2	3	4	5	6	7	8



1929 NORTH OPDYKE
 AUBURN HILLS, MI
 48324-2664
 PHONE (248) 373-0011
 FAX (248) 373-3470

ISO 9001:2000 Registered

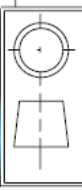
MATERIALS: HIGH IMPACT PVC

TITLE:

SNAP ON DUNNAGE
 3.00 X 2.00 TUBING

C&D#: CD-161

DATE: 5/3/2016

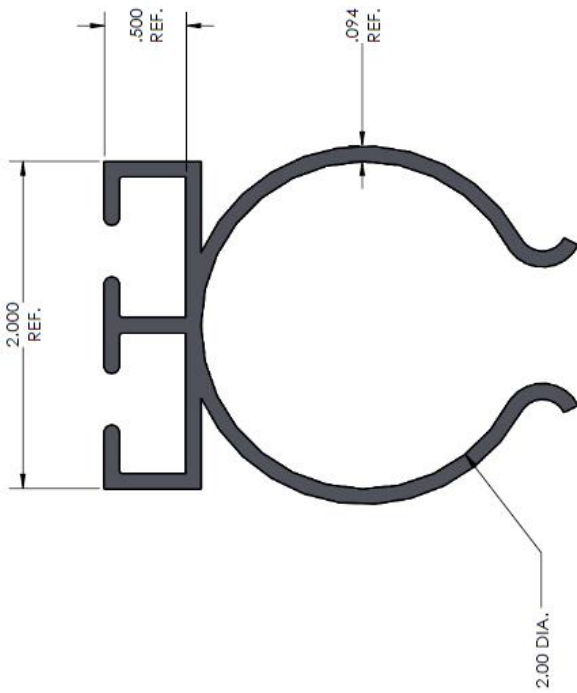


THIRD ANGLE PROJECTION
 DO NOT SCALE DRAWING

NOTE:
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1 2 3 4 5 6 7 8

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



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 AUBURN HILLS, MI
 48326-2664
 PHONE (248) 373-0011
 FAX (248) 373-3470

ISO 9001:2000 Registered

MATERIALS: HIGH IMPACT PVC

TITLE:

SNAP ON DUNNAGE
 2.00 DIA TUBING

C&D#:

CD-162

DATE:

5/3/2016



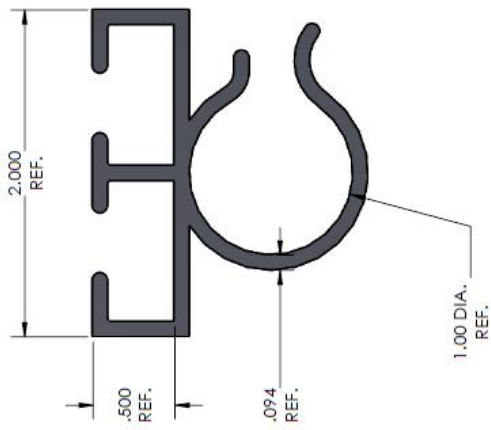
THIRD ANGLE PROJECTION
 DO NOT SCALE DRAWING

NOTE:
 THE "SNAP ON DUNNAGE" RETAINER SYSTEM IS A PATENTED,
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1 2 3 4 5 6 7 8

REV.	DESCRIPTION	DATE	APPROVED



NOTE:
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 AUBURN HILLS, MI
 48326-2664
 PHONE (248) 373-0011
 FAX (248) 373-3470

ISO 9001:2000 Registered

MATERIALS: HIGH IMPACT PVC

TITLE:

SNAP ON DUNNAGE
 1.00 DIA TUBING

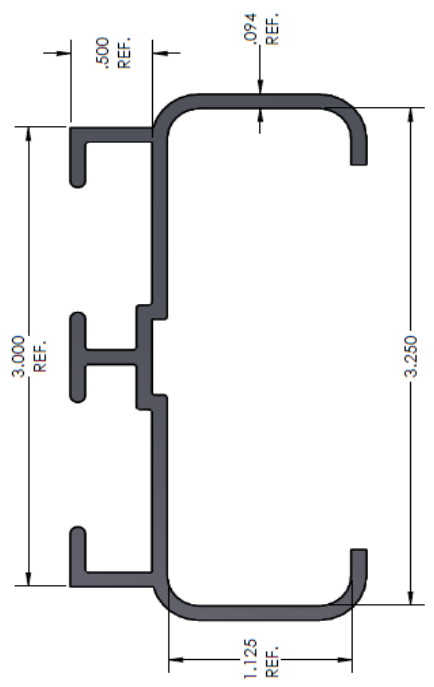
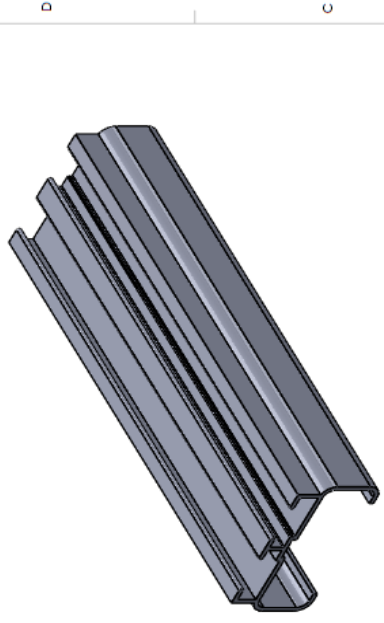


THIRD ANGLE PROJECTION
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C&D#: CD-163

DATE: 5/2/2016

REV.		DESCRIPTION		DATE		APPROVED	
1							
2							
3							
4							
5							
6							
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 AUBURN HILLS, MI
 48326-2664
 PHONE (248) 373-0011
 FAX (248) 373-3470

ISO 9001:2000 Registered

MATERIALS: HIGH IMPACT PVC

TITLE:

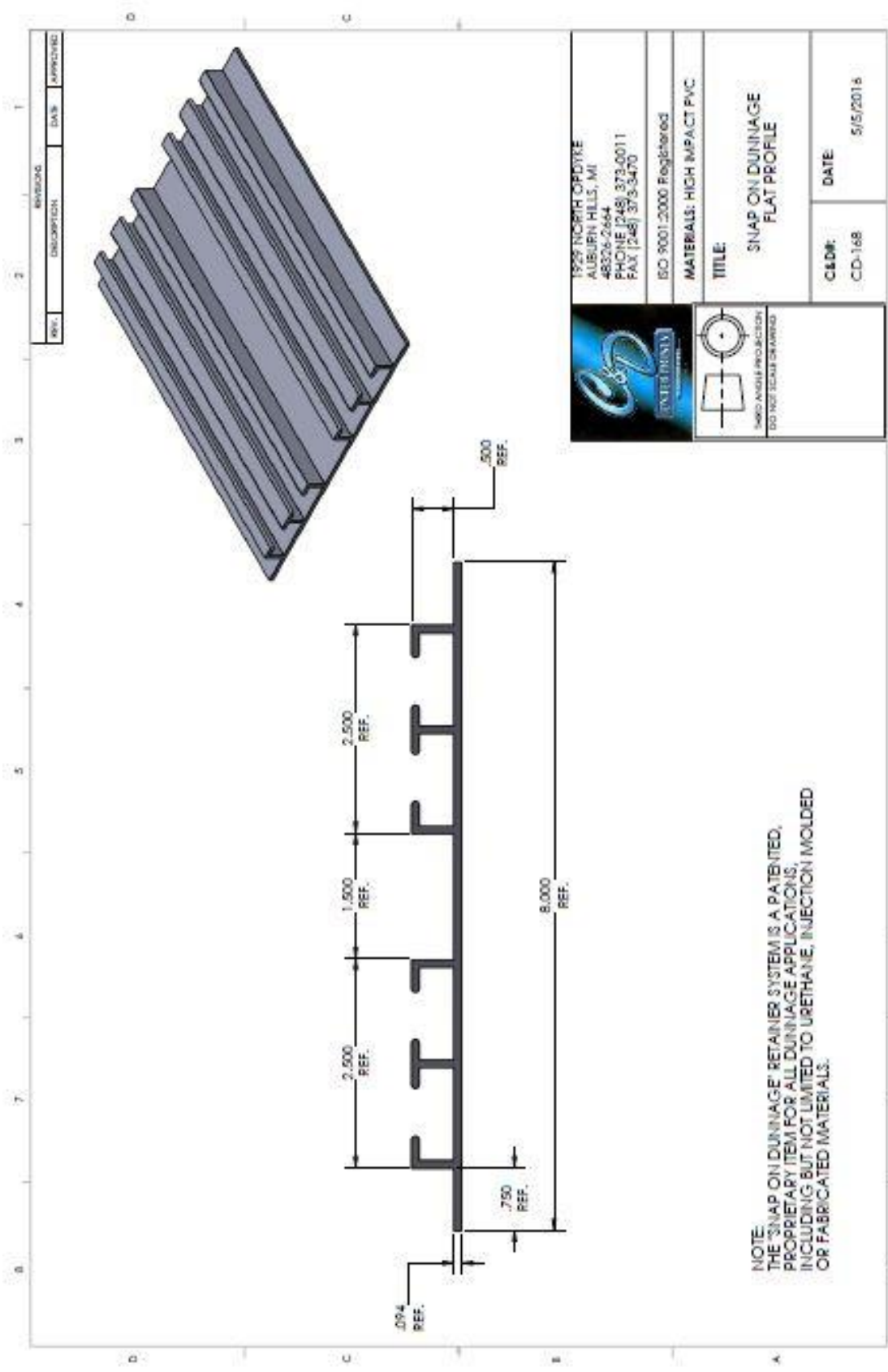
SNAP ON DUNNAGE
 3.00 X 1.00 TUBING

C&D#: CD-165
DATE: 5/5/2016



THIRD ANGLE PROJECTION
 DO NOT SCALE DRAWING

NOTE:
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 INCLUDING BUT NOT LIMITED TO URETHANE, INJECTION MOLDED
 OR FABRICATED MATERIALS.

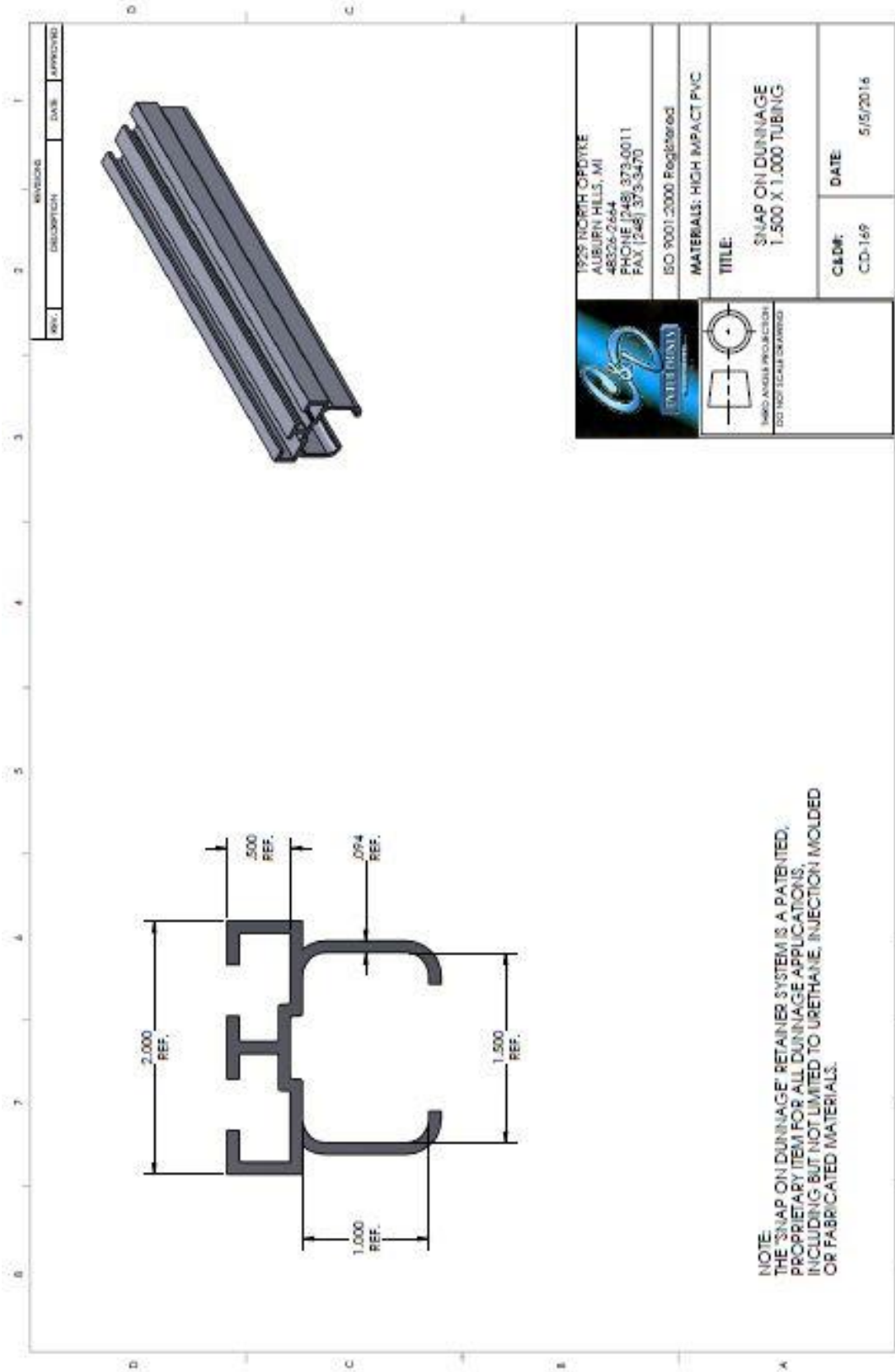


REV.	DESCRIPTION	DATE	APPROVED
1			



	1929 NORTH OGDYNE ALBURN HILLS, MI 48324-2444 PHONE (248) 373-0011 FAX (248) 373-3470	
	ISO 9001:2000 Registered MATERIALS: HIGH IMPACT PVC	
TITLE SNAP ON DUNNAGE FLAT PROFILE		
C&D#: CD-168	DATE: 5/5/2016	

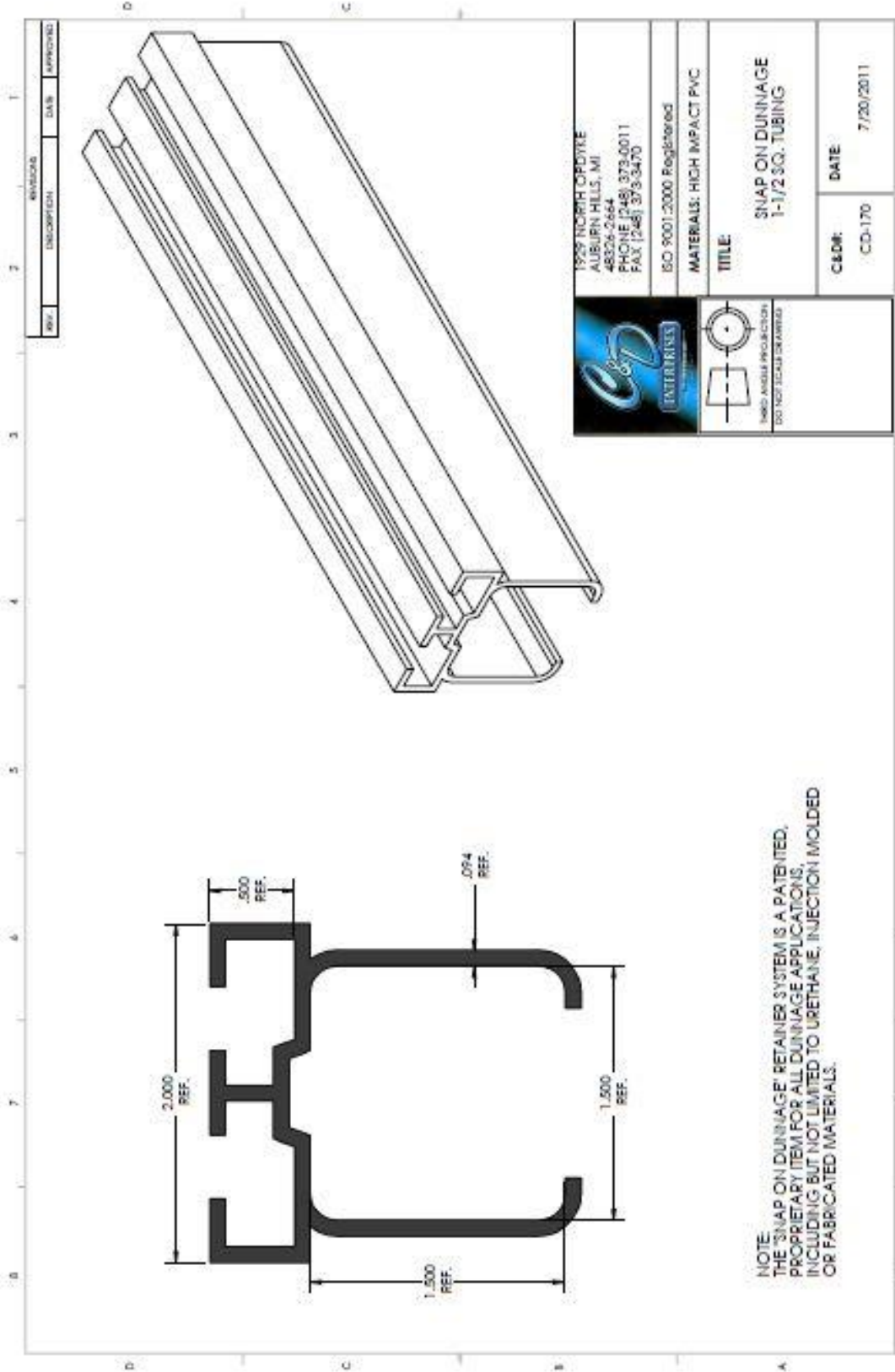
NOTE:
 THE "SNAP ON DUNNAGE RETAINER SYSTEM IS A PATENTED,
 PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS,
 INCLUDING BUT NOT LIMITED TO URETHANE, INJECTION MOLDED
 OR FABRICATED MATERIALS.



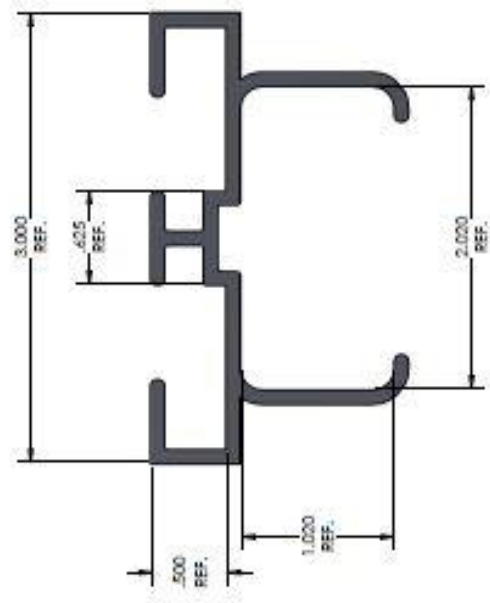
NOTE:
 THE 'SNAP ON DUNNAGE' RETAINER SYSTEM IS A PATENTED,
 PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS,
 INCLUDING BUT NOT LIMITED TO URETHANE, INJECTION MOLDED
 OR FABRICATED MATERIALS.

	1929 NORTH OGDRE ALBURN HILLS, MI 48326-2664 PHONE (748) 373-0011 FAX (248) 373-3470	
	ISO 9001:2000 Registered	
MATERIALS: HIGH IMPACT PVC		
TITLE: SNAP ON DUNNAGE 1,500 X 1,000 TUBING		
C&M#: CD-169		DATE: 5/5/2016

REV.	DESCRIPTION	DATE	APPROVED



REV.	DESCRIPTION	DATE	APPROVED



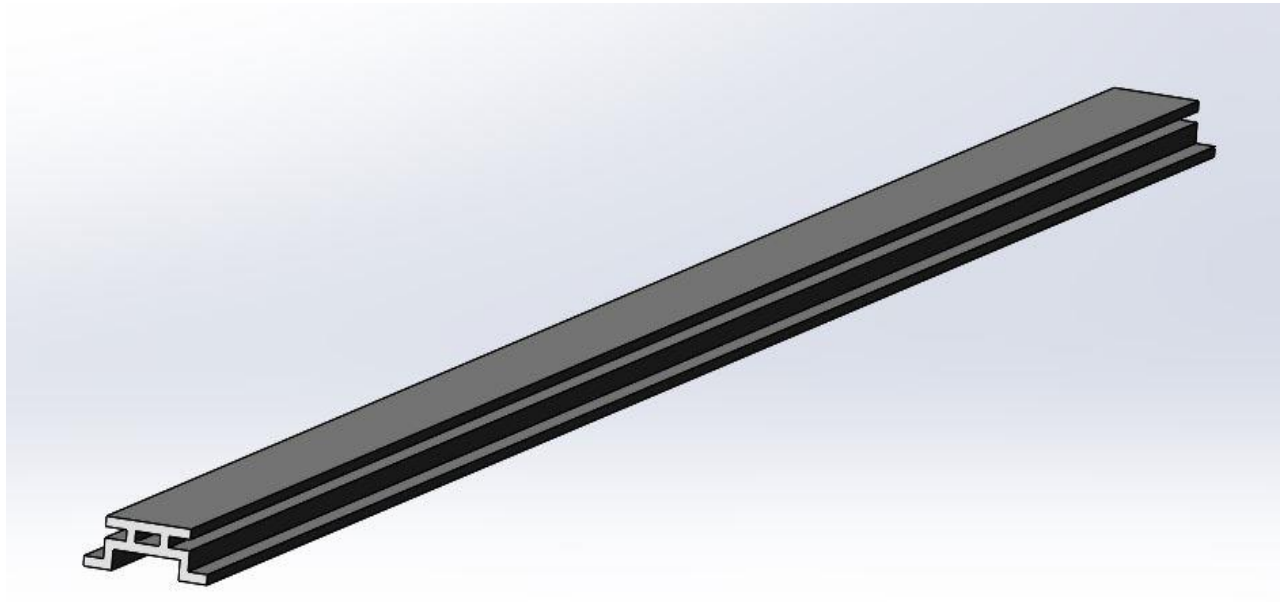
NOTE:
 THE 'SNAP ON DUNNAGE' RETAINER SYSTEM IS A PATENTED,
 PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS,
 INCLUDING BUT NOT LIMITED TO URETHANE, INJECTION MOLDED
 OR FABRICATED MATERIALS.

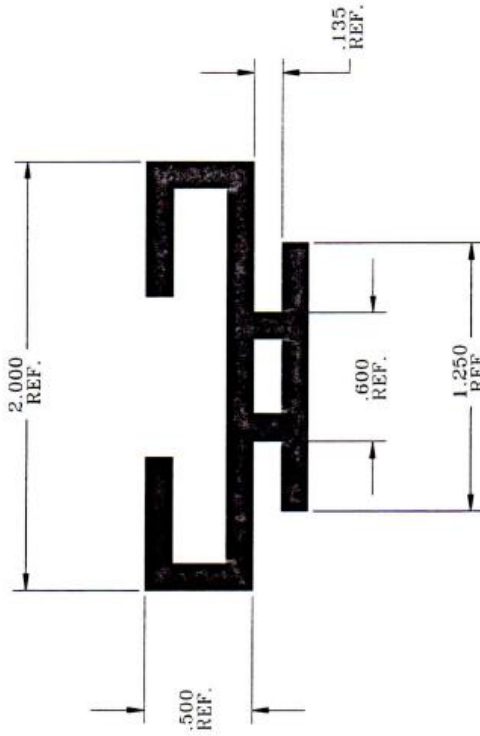
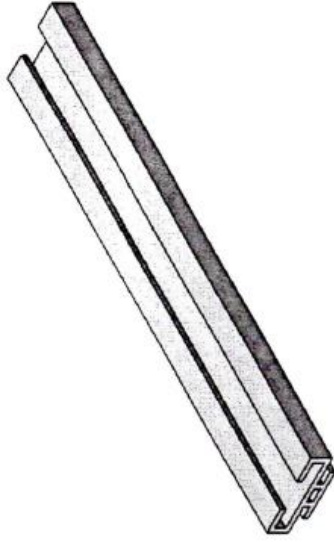


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1925 NORTH OPDYKE ALBURN HILLS, MI 48306-2664 PHONE (248) 373-0011 FAX (248) 373-3470	ISO 9001:2000 Registered
MATERIALS: HIGH IMPACT PVC	
TITLE: SNAP ON DUNNAGE 1.02 X 2.02 SQ. TUBING	
C.D.#: CD-171	DATE: 5/5/2016

"T-SLOT" RETAINERS





	DO NOT SCALE DRAWING TOLERANCES: UNLESS OTHERWISE SPECIFIED ANGULAR = ± .5 .XX = ± .06 .XXX = ± .031
	THIRD ANGLE PROJECTION

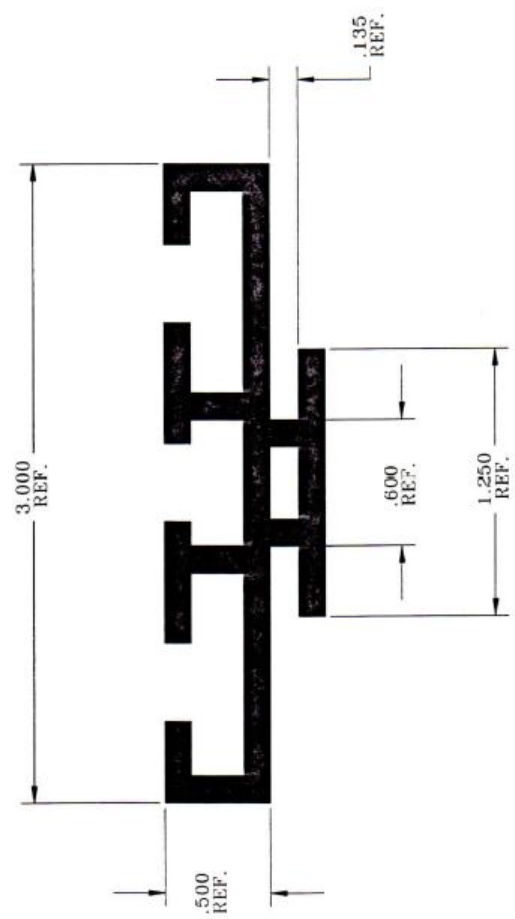
1929 NORTH OPDYKE
 AUBURN HILLS, MI
 48326-2664
 PHONE (248) 373-0011
 FAX (248) 373-3470

ISO 9001:2000 Registered

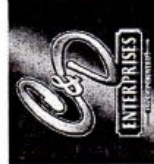
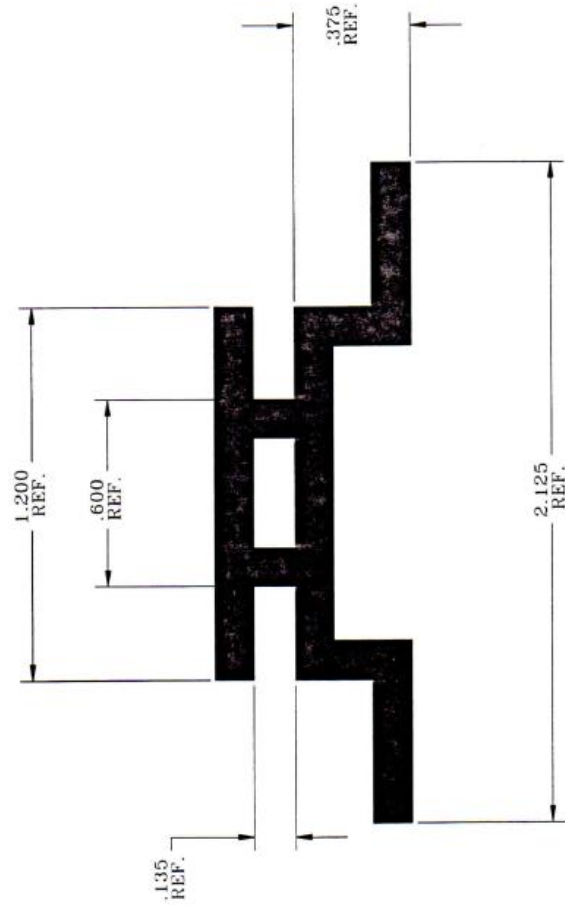
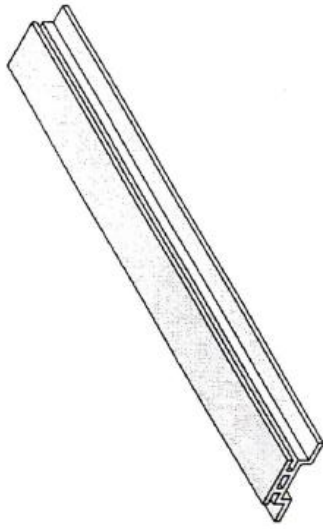
MATERIALS: HIGH IMPACT PVC

TITLE:
DUNNAGE RETAINER
 CMHE-2019 or SGM-64

C&P# **CD-701** DATE: 5/23/05
 REV. DATE: N/A



 <p>1929 NORTH OPDYKE AUBURN HILLS, MI 48326-2664 PHONE (248) 373-0011 FAX (248) 373-3470</p>	ISO 9001:2000 Registered
	MATERIALS: HIGH IMPACT PVC
TITLE: DUNNAGE RETAINER CMHE-2020 of SGM-65	
C&D# CD-702	DATE: 5/23/05 REV. DATE: N/A
THIRD ANGLE PROJECTION DO NOT SCALE DRAWING MANUFACTURING TOLERANCES: UNLESS OTHERWISE SPECIFIED ANGULAR = ± .5 XX = ± .06 .XXX = ± .031	



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 AUBURN HILLS, MI
 48326-2664
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MATERIALS: HIGH IMPACT PVC

TITLE:
DUNNAGE RETAINER
 SG-1098

C&D#
CD-704
 DATE: 5/23/05
 REV.
 DATE: N/A



THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

MANUFACTURING

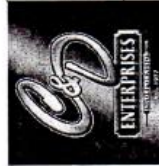
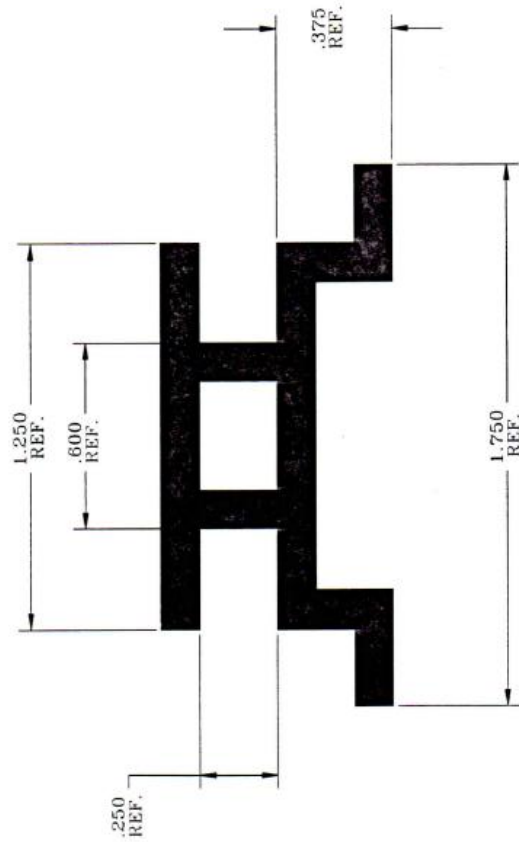
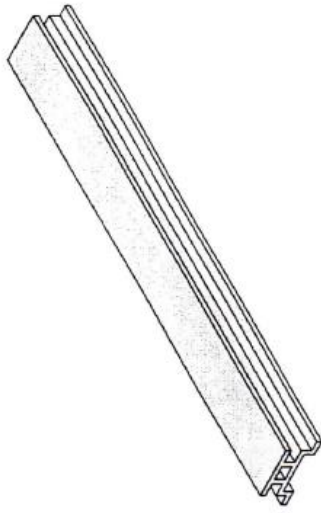
TOLERANCES:

UNLESS OTHERWISE SPECIFIED

ANGULAR = ± .5

XX = ± .06

.XXX = ± .031



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THIRD ANGLE PROJECTION

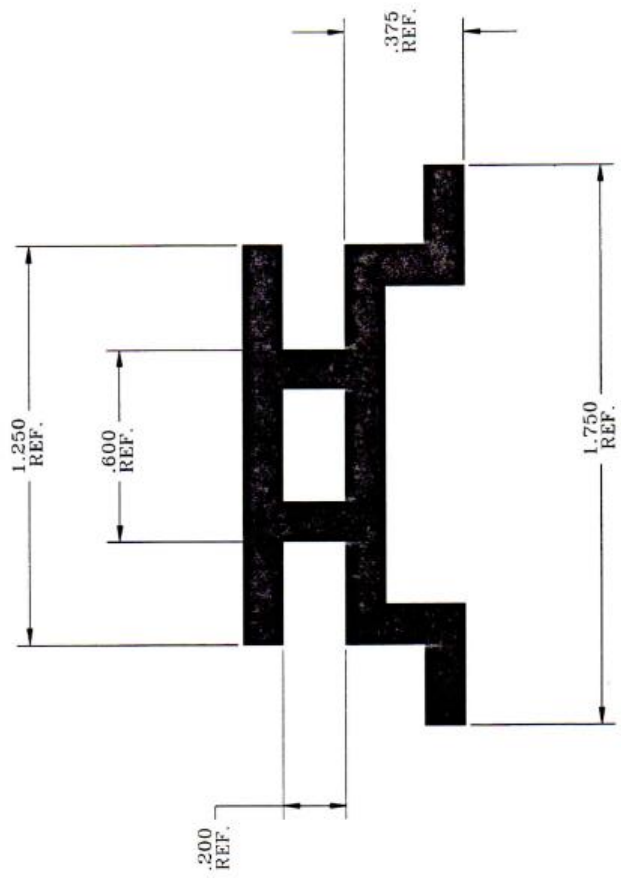
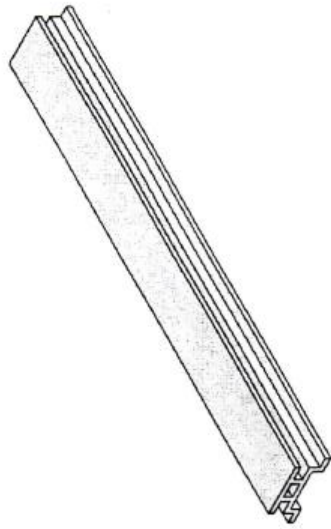
DO NOT SCALE DRAWING
 MANUFACTURING
 TOLERANCES
 UNLESS OTHERWISE SPECIFIED
 ANGULAR = ± .5
 .XX = ± .06
 .XXX = ± .031

MATERIALS: HIGH IMPACT PVC

TITLE:
DUNNAGE RETAINER
 SG-60

C&I#
CD-705

DATE: 5/23/05
 REV.
 DATE: N/A



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 AUBURN HILLS, MI
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 PHONE (248) 373-0011
 FAX (248) 373-3470

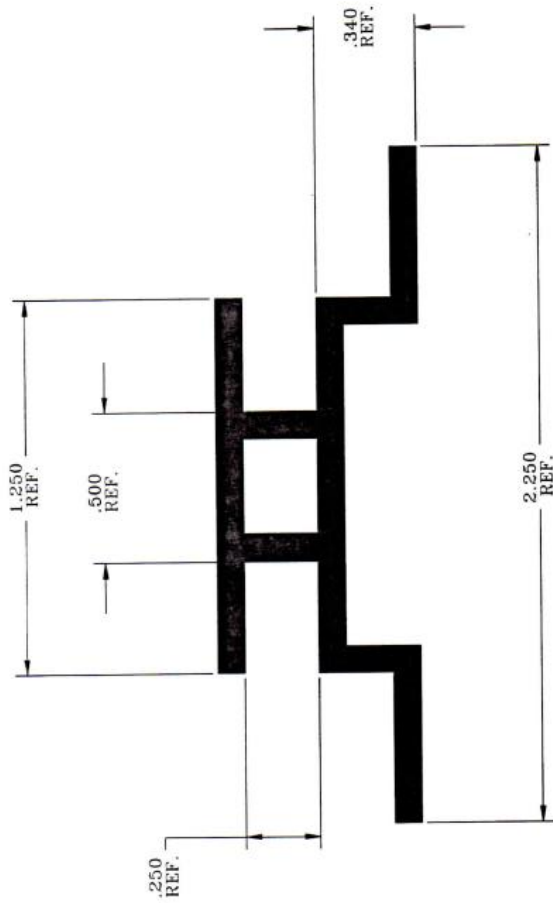
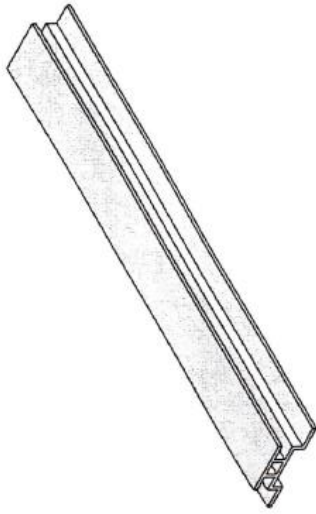
ISO 9001:2000 Registered

MATERIALS: HIGH IMPACT PVC

TITLE:
DUNNAGE RETAINER
 SG-60-A

C&I#
CD-706
 DATE: 5/23/05
 REV. DATE:
 N/A

THIRD ANGLE PROJECTION
 DO NOT SCALE DRAWING
 MANUFACTURING TOLERANCES
 UNLESS OTHERWISE SPECIFIED
 ANGULAR = ± .5
 .XX = ± .06
 .XXX = ± .031



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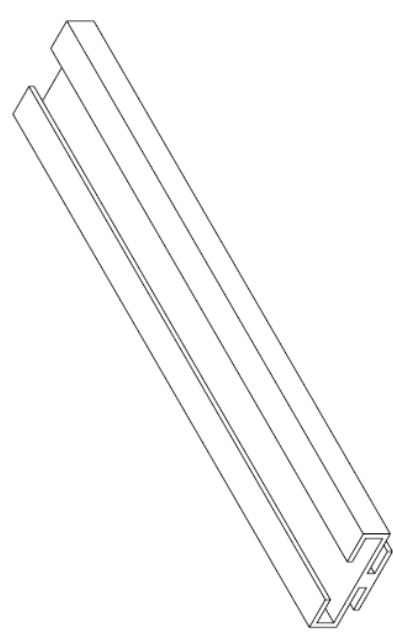
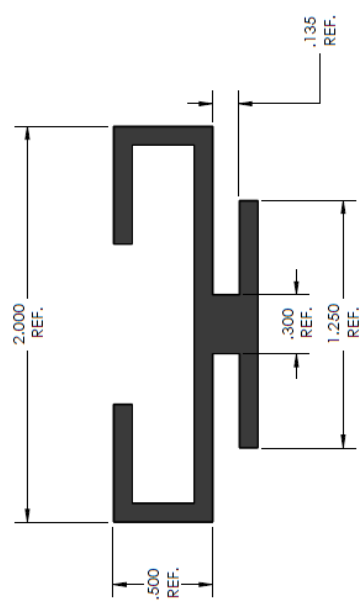
MATERIALS: HIGH IMPACT PVC
 TITLE:

DUNNAGE RETAINER
 MH-14440

C&D# CD-707
 DATE: 5/23/05
 REV. N/A
 DATE:

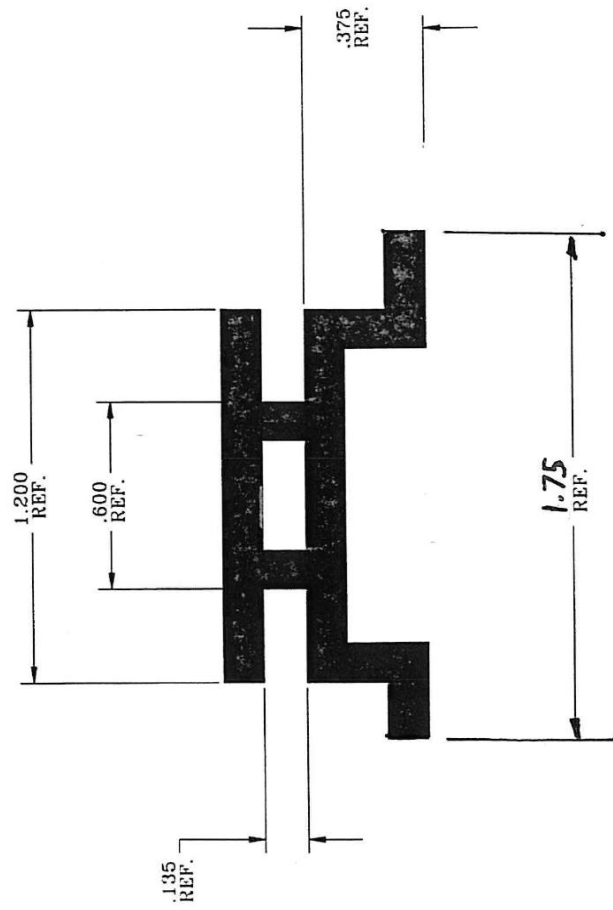
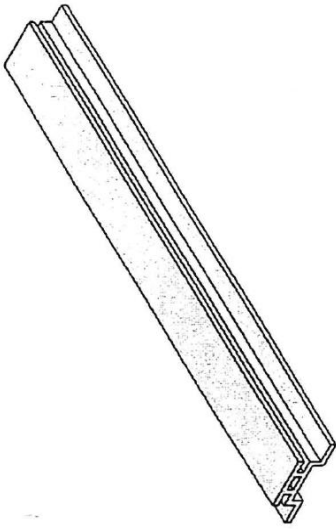
THIRD ANGLE PROJECTION
 DO NOT SCALE DRAWING
 MANUFACTURING TOLERANCES:
 UNLESS OTHERWISE SPECIFIED
 ANGULAR = ± .5
 .XX = ± .06
 .XXX = ± .031

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1			
2			
3			
4			
5			
6			
7			
8			



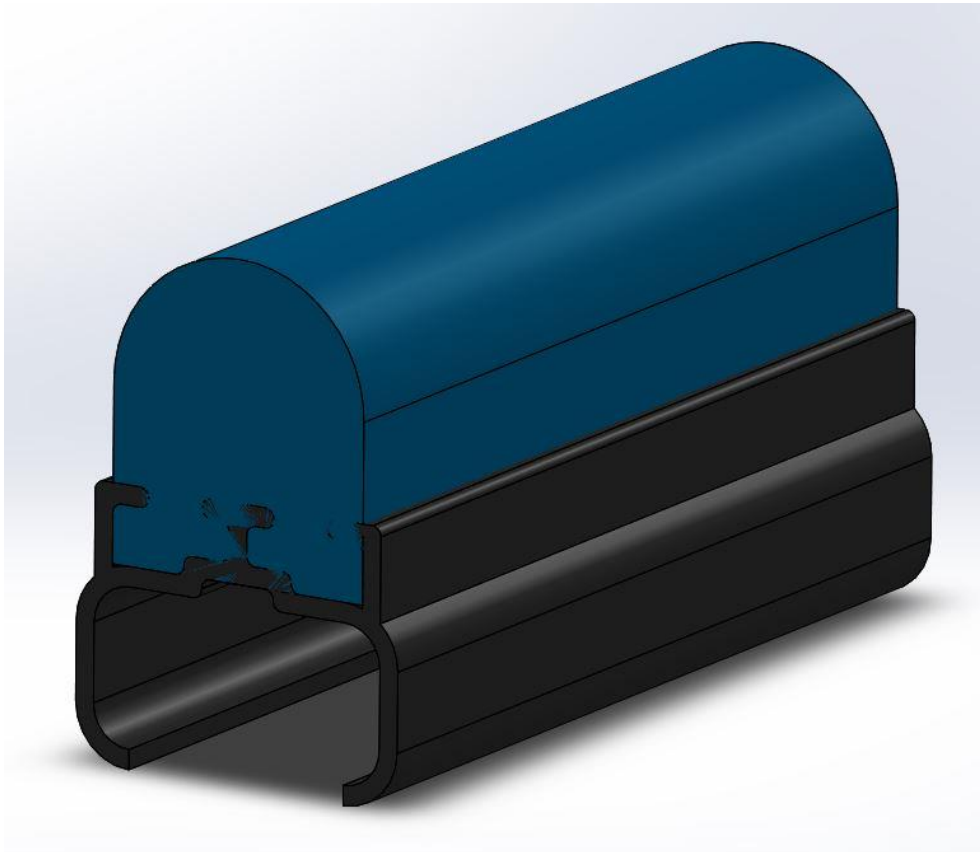
NOTE:
 THE "SNAP ON DUNNAGE" RETAINER SYSTEM IS A PATENTED,
 PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS,
 INCLUDING BUT NOT LIMITED TO URETHANE, INJECTION MOLDED
 OR FABRICATED MATERIALS.

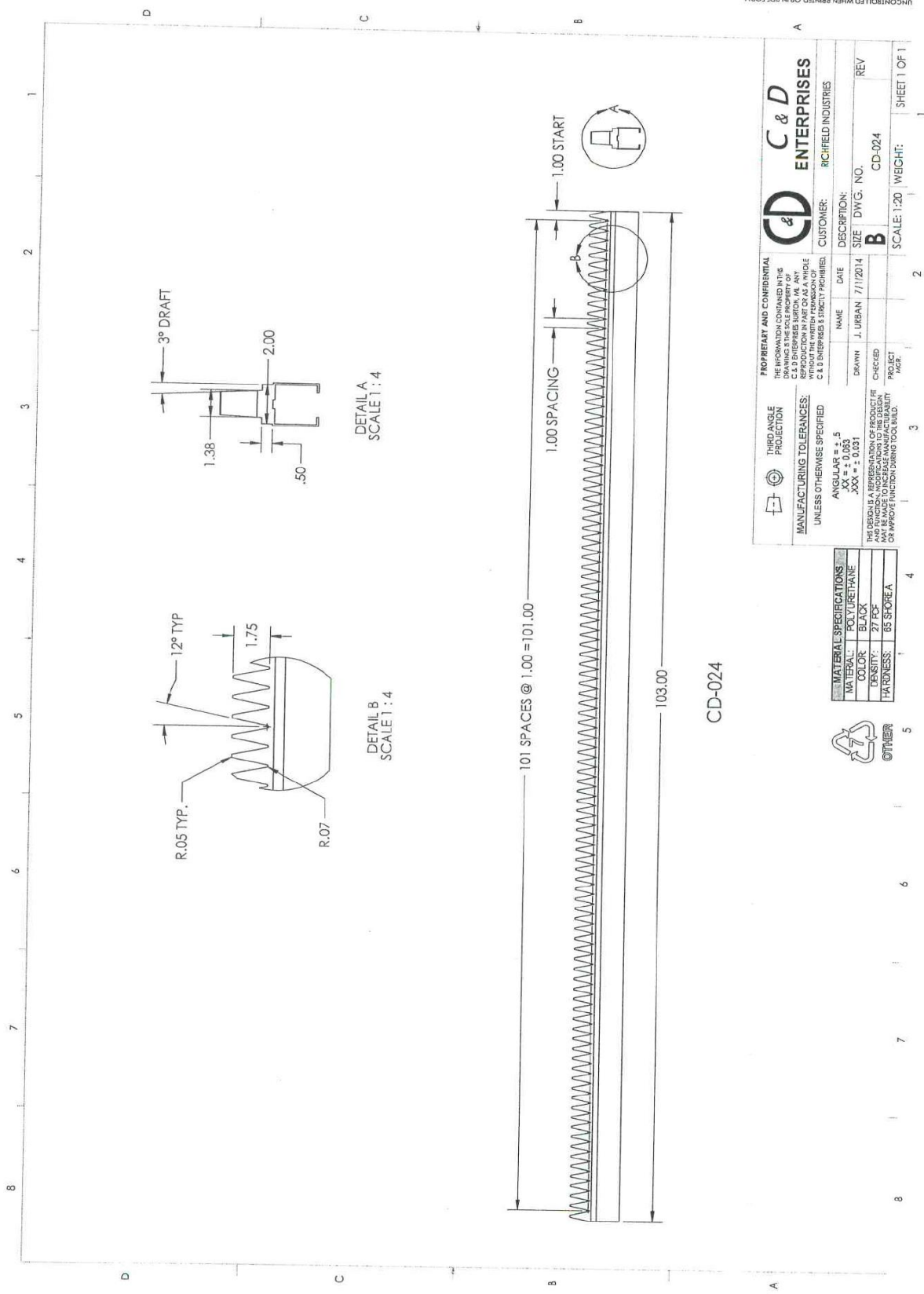
	1929 NORTH OPDYKE ALBURN HILLS, MI 48326-2664 PHONE (248) 373-0011 FAX (248) 373-3470	
	ISO 9001:2000 Registered	
MATERIALS: HIGH IMPACT PVC		
TITLE: DUNNAGE RETAINER FORD		
C&D#: CD-708	DATE: 7/22/2011	
THIRD ANGLE PROJECTION DO NOT SCALE DRAWING		



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	ISO 9001:2000 Registered	
MATERIALS: HIGH IMPACT PVC		
TITLE: DUNNAGE RETAINER SAM-63		
C&D#	DATE: 5/23/05	REV. DATE: N/A
THIRD ANGLE PROJECTION DO NOT SCALE DRAWING MANUFACTURING TOLERANCES: UNLESS OTHERWISE SPECIFIED ANGULAR ± .5 XX ± .02 .XXX ± .031		

“SNAP ON” DUNNAGE





DETAIL A
SCALE 1:4

DETAIL B
SCALE 1:4

101 SPACES @ 1.00 = 101.00

103.00

1.00 SPACING

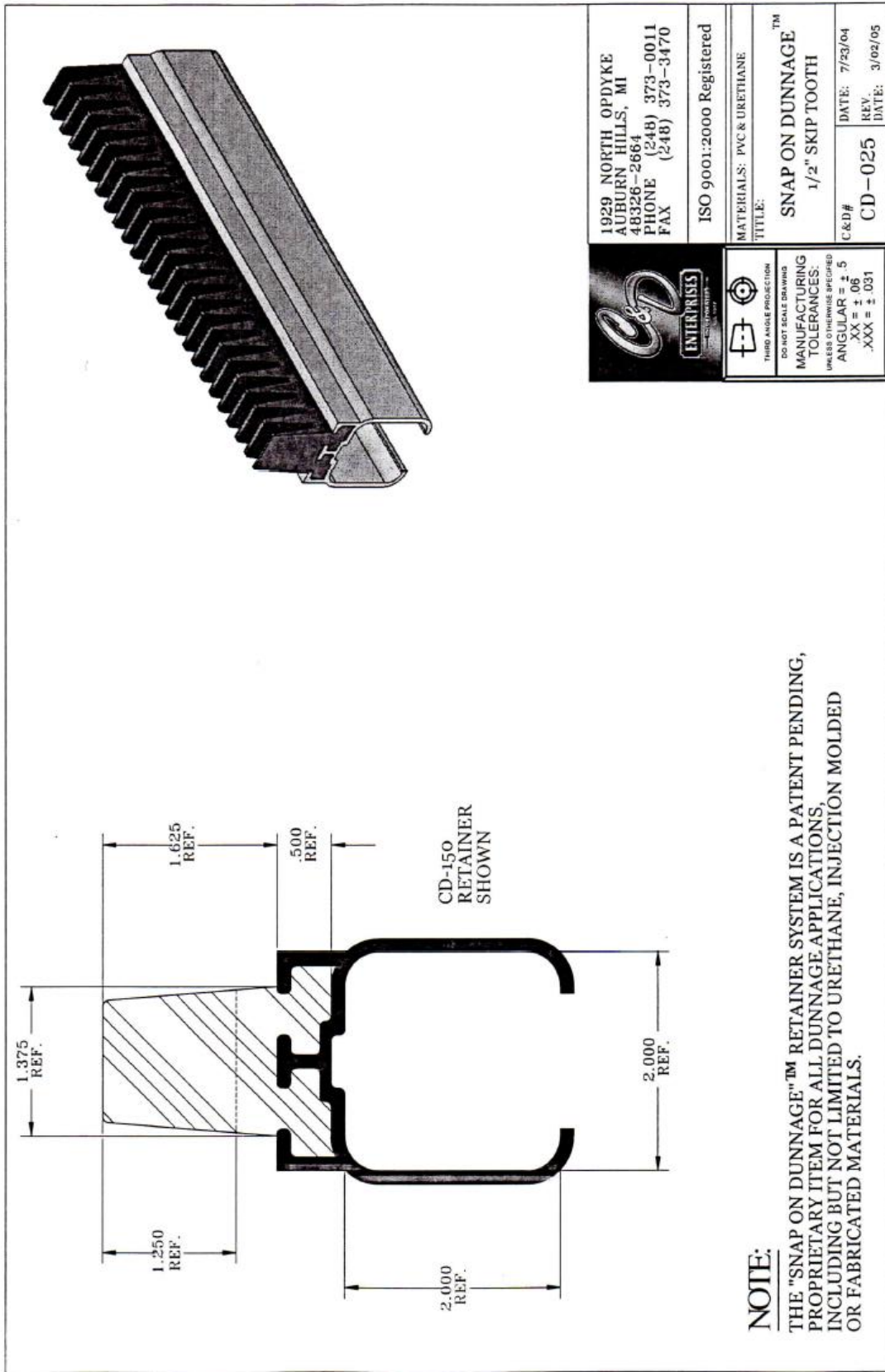
1.00 START

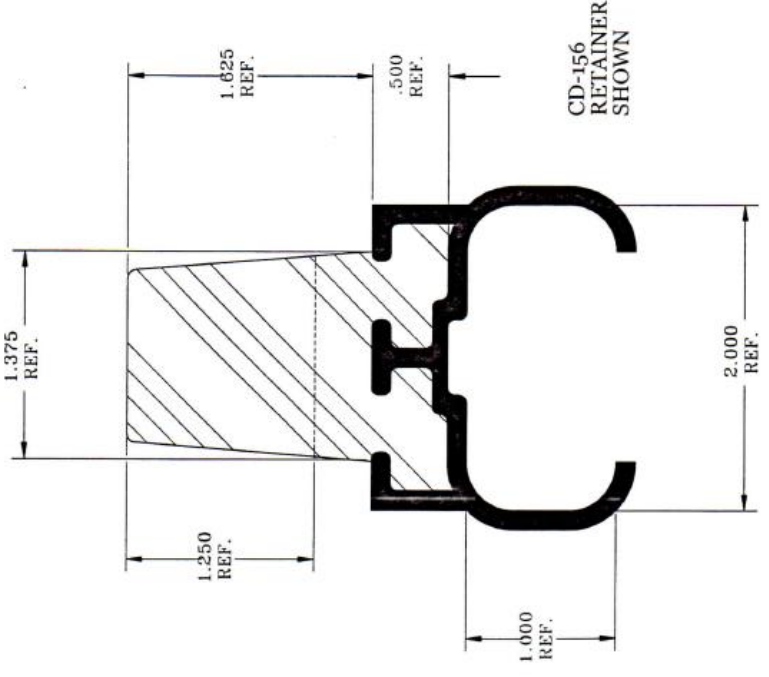
CD-024

		THIRD ANGLE PROJECTION	
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MANUFACTURING TOLERANCES: UNLESS OTHERWISE SPECIFIED: ANGULAR = ± .5 .XX = ± 0.031 .XXX = ± 0.01		THIRD ANGLE PROJECTION	
	MATERIAL SPECIFICATIONS:	THIRD ANGLE PROJECTION	THIRD ANGLE PROJECTION
MATERIAL:	POLYURETHANE	NAME:	J. URBAN
COLOR:	BLACK	DATE:	7/11/2014
DENSITY:	27 PPF	CHECKED:	
HARDNESS:	85 SHORE A	PROJECT:	
OTHER:		PROJ. EST.	
		SCALE:	1:20
		WEIGHT:	
		SHEET:	1 OF 1

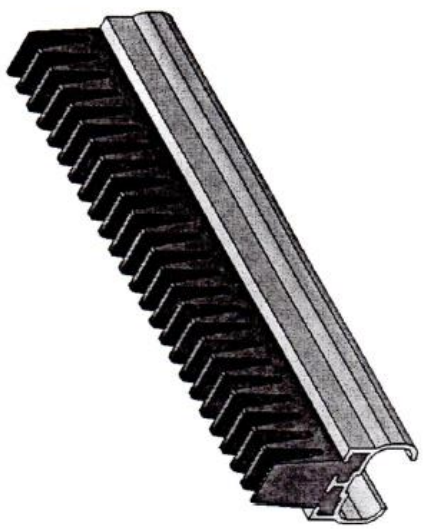
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 RICHFIELD INDUSTRIES

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CD-156
RETAINER
SHOWN



NOTE:

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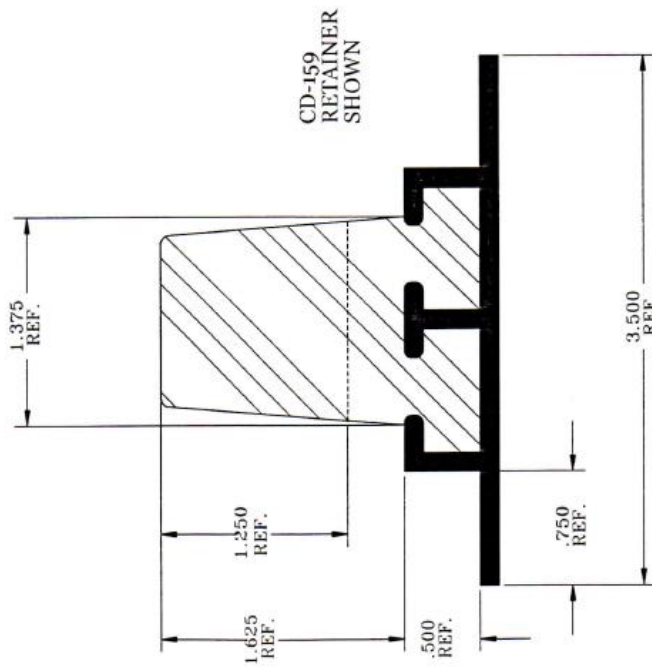
ISO 9001:2000 Registered

MATERIALS: PVC & URETHANE

TITLE:
SNAP ON DUNNAGE™
1/2" SKIP TOOTH

C&D# CD-027
DATE: 7/23/04
REV. DATE: 3/02/05

THIRD ANGLE PROJECTION
DO NOT SCALE DRAWING
MANUFACTURING TOLERANCES:
UNLESS OTHERWISE SPECIFIED
ANGULAR = ± .5
XX = ± .06
XXX = ± .031



NOTE:

THE "SNAP ON DUNNAGE"[™] RETAINER SYSTEM IS A PATENT PENDING, PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS, INCLUDING BUT NOT LIMITED TO URETHANE, INJECTION MOLDED OR FABRICATED MATERIALS.



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AUBURN HILLS, MI
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PHONE (248) 373-0011
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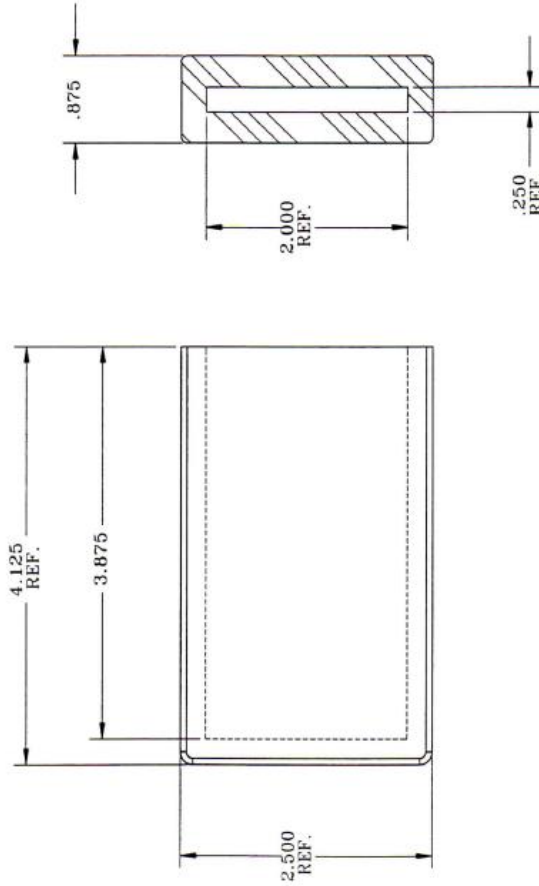
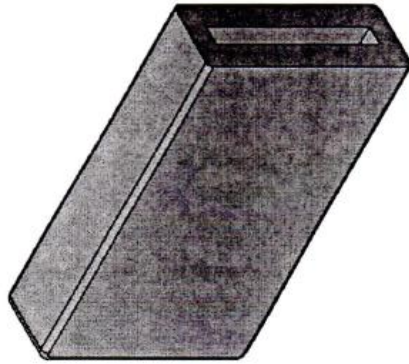
ISO 9001:2000 Registered

MATERIALS: PVC & URETHANE

TITLE:
SNAP ON DUNNAGE[™]
1/2" SKIP TOOTH

C&D# **CD-028** DATE: 7/23/04
REV. DATE: 3/02/05

THIRD ANGLE PROJECTION
DO NOT SCALE DRAWING
MANUFACTURING
TOLERANCES:
UNLESS OTHERWISE SPECIFIED
ANGULAR = ± .5
XX = ± .06
XXX = ± .031



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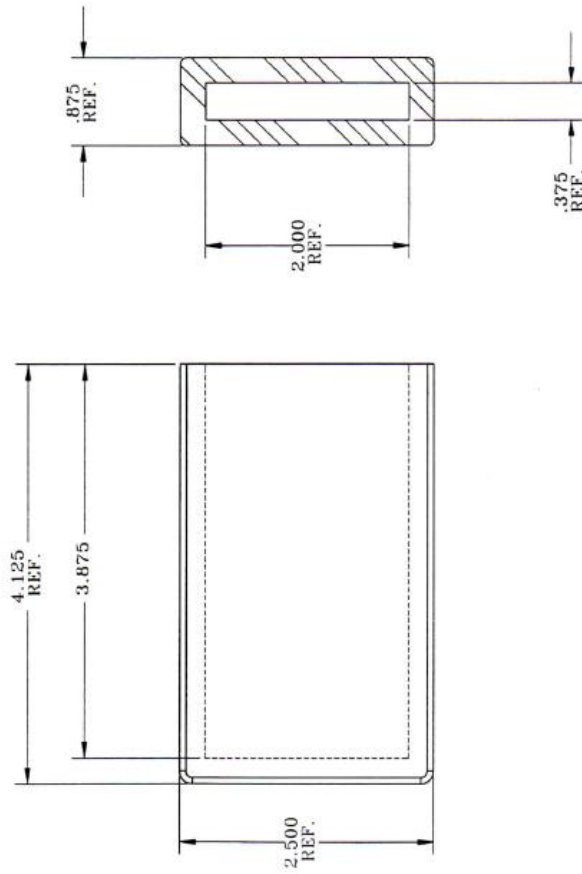
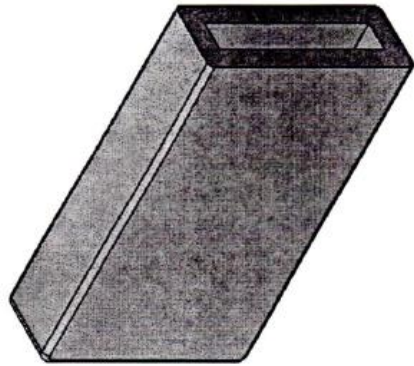
ISO 9001:2000 Registered

MATERIALS: URETHANE
 TITLE:

PANEL STOP
 1/4" INSERT

C&D# CD-030
 DATE: 7/23/04
 REV. DATE: 3/02/05

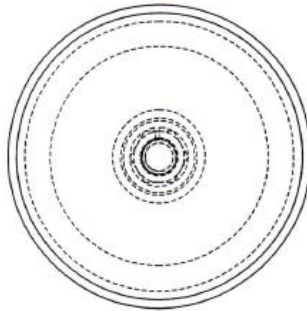
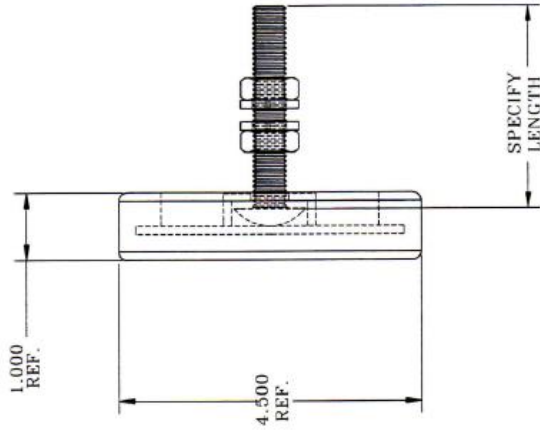
THIRD ANGLE PROJECTION
 DO NOT SCALE DRAWING
 MANUFACTURING
 TOLERANCES:
 UNLESS OTHERWISE SPECIFIED
 ANGULAR = ± .5
 .XX = ± .06
 .XXX = ± .031



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MATERIALS: URETHANE	
TITLE: PANEL STOP 3/8" INSERT	
C&D#	DATE: 7/23/04
CD-031	REV. DATE: 3/02/05
DO NOT SCALE DRAWING THIRD ANGLE PROJECTION MANUFACTURING TOLERANCES: UNLESS OTHERWISE SPECIFIED ANGULAR = ± .5 XX = ± .06 XXX = ± .031	



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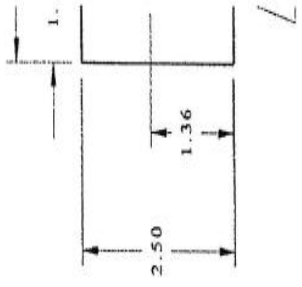
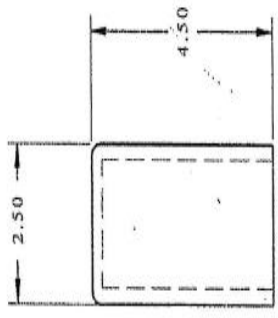
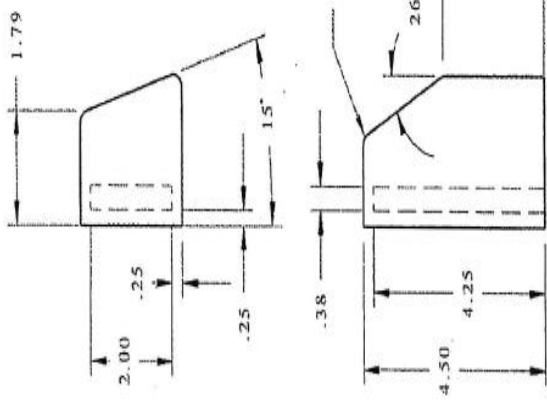
MATERIALS: URETHANE OVERMOLD
 TITLE:

GLASS PIVOT DISK

C&P# CD-032
 DATE: 9/12/05
 REV. N/A
 DATE:

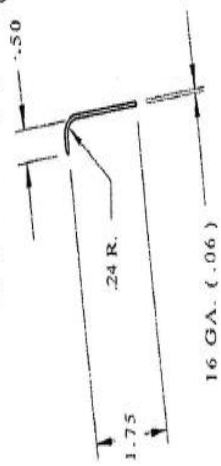
THIRD ANGLE PROJECTION
 DO NOT SCALE DRAWING
 MANUFACTURING TOLERANCES:
 UNLESS OTHERWISE SPECIFIED
 ANGULAR = ± .5
 .XX = ± .06
 .XXX = ± .031

CD-033

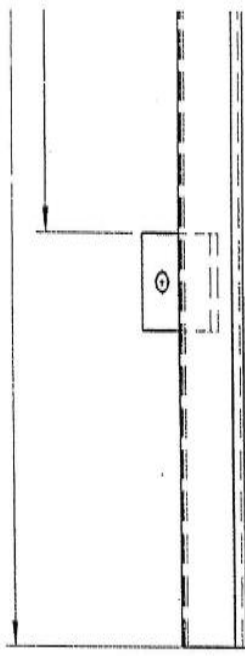


DETAIL 31 SHOWN
DETAIL 32 OPPOSITE

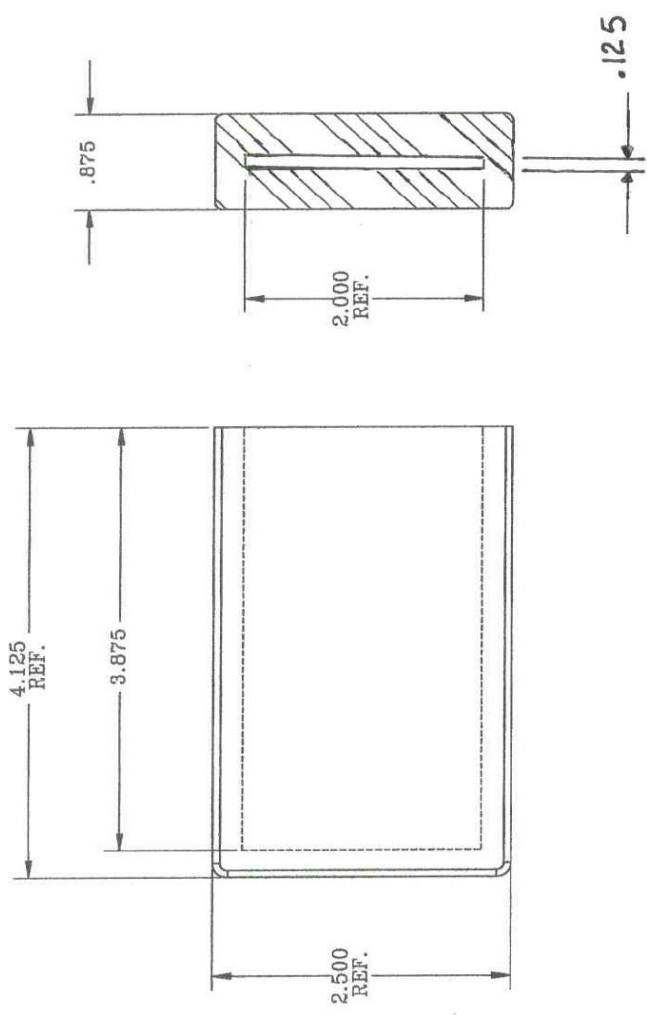
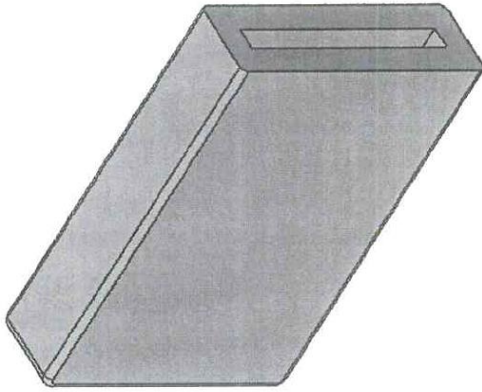
OW500710
2010 wk/wd
PWL Liftgate OTR



DETAIL C



DESCRIPTION: OUTRIGGER ASSY		
SUB - ASSY	QTY	NOTES
G4 SHN	1	
G5 OPP.	1	
DET	QTY	DESCRIPTION
G4A	1	2.00 X 1.00 X 11 GA(.120) X 30.00
G4B	3	.25 X 2.00 X DEV. LENGTH - FIR
G4C	1	16 GA(.065) X DEV. WIDTH X 31



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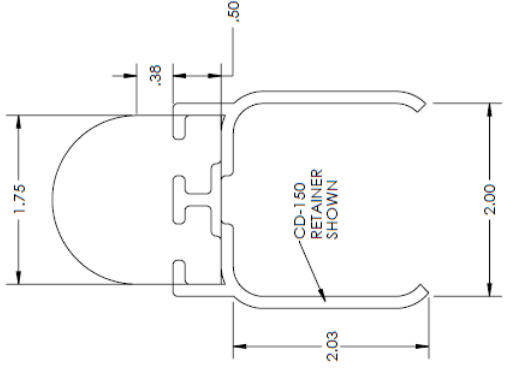
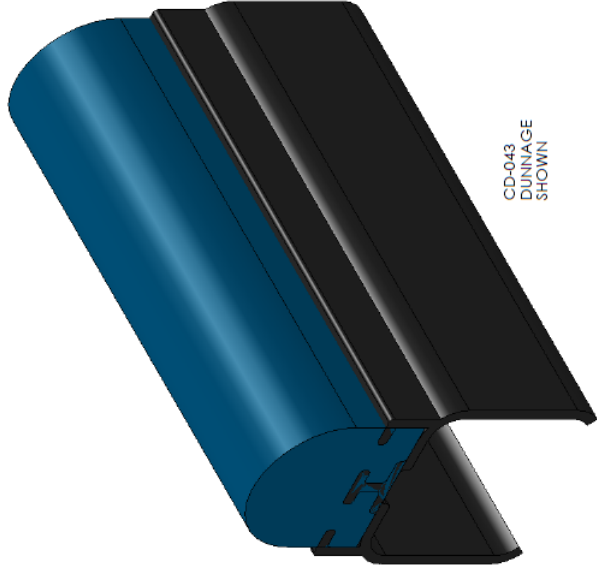
THIRD ANGLE PROJECTION
 DO NOT SCALE DRAWING
 MANUFACTURING TOLERANCES:
 UNLESS OTHERWISE SPECIFIED
 ANGULAR = ± .5
 .XX = ± .06
 .XXX = ± .031

MATERIALS: URETHANE
 TITLE:

PANEL STOP
 .125" INSERT

C&D#
 CD-034
 DATE: 7/23/04
 REV. 3/24/09
 DATE:

REV.	DESCRIPTION	DATE	APPROVED
1			



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THIRD ANGLE PROJECTION

MANUFACTURING TOLERANCES:
 UNLESS OTHERWISE SPECIFIED:
 ANGULAR = ±.5
 DECIMALS = ±.015
 XXX = ±0.001

MATERIAL SPECIFICATIONS:
 MATERIAL: POLYURETHANE
 COLOR: BLACK
 DENSITY: N/A
 HARDNESS: N/A

OTHER:

CD ENTERPRISES

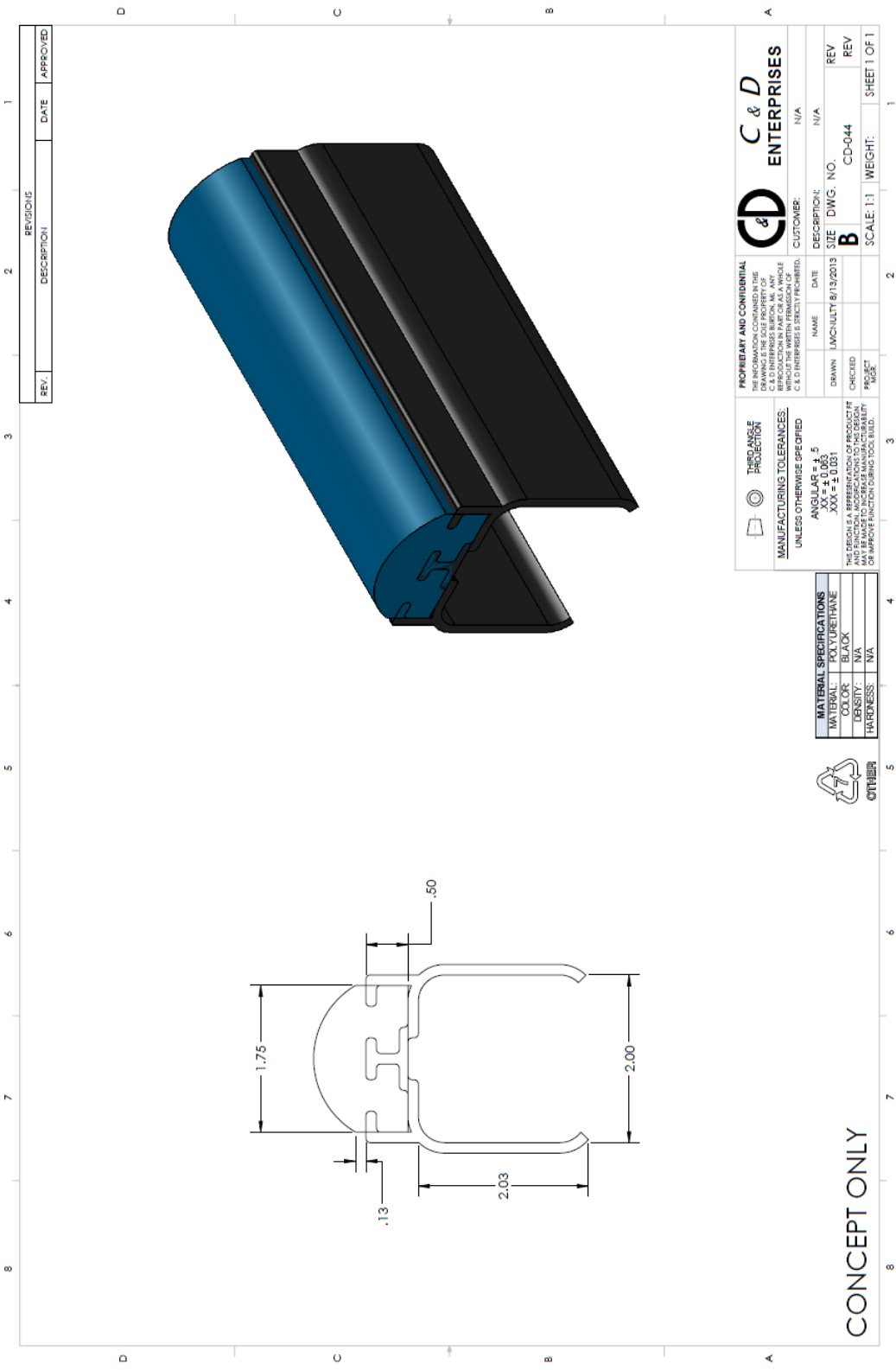
NAME: N/A
 DATE: N/A
 DESCRIPTION: N/A
 CUSTOMER: N/A

DRAWN: JMC/HULTY (8/13/2013) SIZE: B DWG. NO.: CD-043
 CHECKED: REV: 1
 PROJECT: REV: 1

SCALE: 1:1 WEIGHT: SHEET 1 OF 1

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REV.	DESCRIPTION		

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THIRD ANGLE PROJECTION

MANUFACTURING TOLERANCES:
 UNLESS OTHERWISE SPECIFIED:
 ANGULAR = ±.5
 DIMENSIONS = ±.005
 XXX = ±.001

THE DESIGN IS A REPRESENTATION OF PRODUCT FIT AND FINISH. IT IS NOT TO BE USED FOR MANUFACTURE OR IMPROVEMENT DURING TOOL BUILD.

C & D ENTERPRISES

NAME	DATE	DESCRIPTION:	CUSTOMER:
	11/03/2013	B	N/A
DRAWN	SIZE	DWG. NO.	REV
	CD-044		
CHECKED			REV
PROJECT			
PAGE			
		SCALE: 1:1	WEIGHT:
			SHEET 1 OF 1

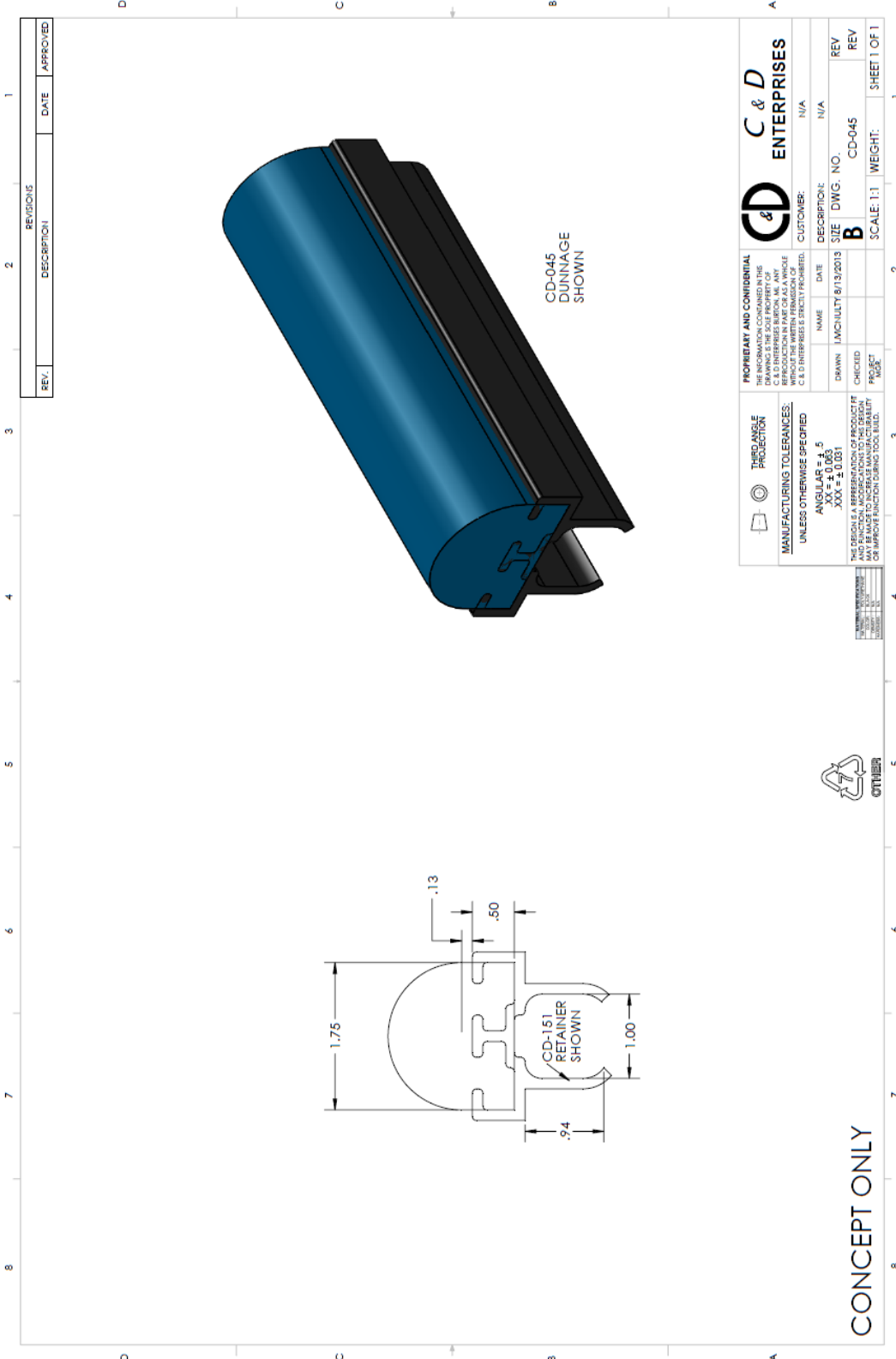
MATERIAL SPECIFICATIONS

MATERIAL:	POLYURETHANE
COLOR:	BLACK
DENSITY:	N/A
HARDNESS:	N/A



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CD-045
DUNNAGE
SHOWN

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		

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NAME	DATE	DESCRIPTION	CUSTOMER
DRAWN	1/ACTUALITY 8/13/2013	SIZE	DWG. NO.
CHECKED		B	CD-045
PROJECT		SCALE	1:1
		WEIGHT:	
			SHEET 1 OF 1

THIRD ANGLE PROJECTION

MANUFACTURING TOLERANCES:
UNLESS OTHERWISE SPECIFIED:
ANGULAR ± .5
XX ± 0.003
XXX ± 0.031

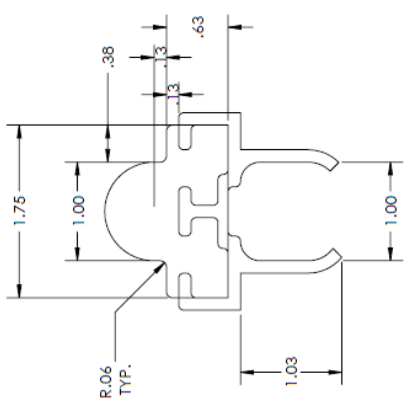
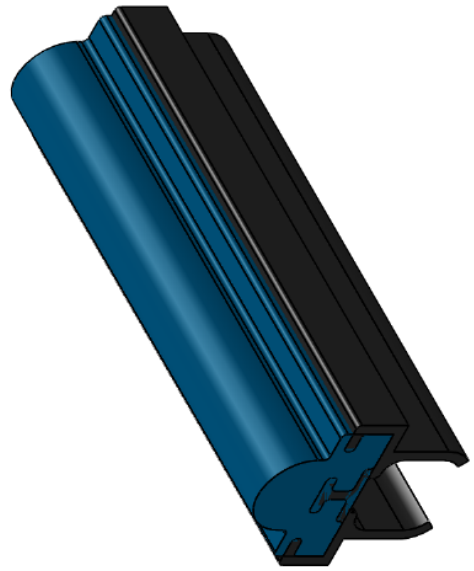
THIS DESIGN IS A REPRESENTATION OF PRODUCT IT MAY BE MADE TO INCREASE MANUFACTURABILITY OR IMPROVE FUNCTION DURING TOOL BUILD.

OTHER

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REV.	DESCRIPTION	DATE	APPROVED



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MANUFACTURING TOLERANCES:
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 ANGULAR = ± .5
 DIMENSIONS = ± .005
 XXX = ± 0.031

THE DESIGN IS A REPRESENTATION OF PRODUCT FIT AND FUNCTION. MODIFICATIONS TO THE DESIGN OR APPROVE FUNCTION DURING TOOL BUILD.

C & D ENTERPRISES

NAME: R. SMITH DATE: 8/13/2013 CUSTOMER: COMP: DEFC: REV: REV: REV: SHEET 1 OF 1

DRAWN: DWG. NO.: CD-047 SCALE: 1:1 WEIGHT: PAGE: PAGE:

MATERIAL SPECIFICATIONS

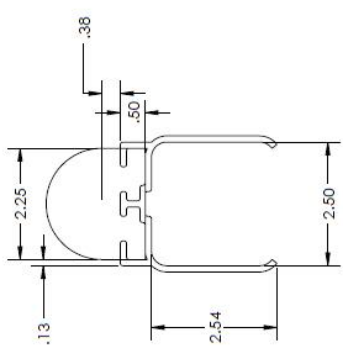
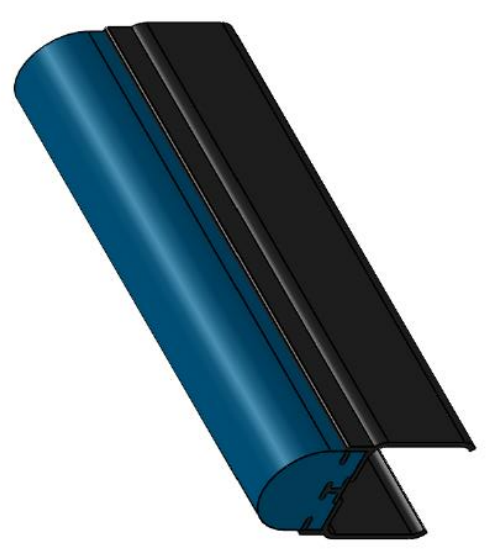
MATERIAL	POLYURETHANE
COLOR	BLACK
DENSITY	27 PCF
HARDNESS	65 SHORE A



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REV.	DESCRIPTION	DATE	APPROVED



THIRD ANGLE PROJECTION

MANUFACTURING TOLERANCES:
UNLESS OTHERWISE SPECIFIED:
ANGULAR = ± .5
DIMENSIONS = ± .010
XXX = ± 0.001

THE DESIGN IS A REPRESENTATION OF PRODUCT FIT AND FUNCTION. MODIFICATIONS TO THE DESIGN OR IMPROVE FUNCTION USING TOOL, BUILD, PROJECT

PROPERTY AND CONFIDENTIALITY:
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C & D ENTERPRISES

NAME: _____ DATE: _____
DRAWN: IMC/HULTY 8/13/2013 DESCRIPTION: _____
CHECKED: _____ SIZE: DWG. NO. _____
PAGE: _____ PROJECT: CD-048 REV: _____
SCALE: 1:2 WEIGHT: SHEET 1 OF 1

MATERIAL SPECIFICATIONS

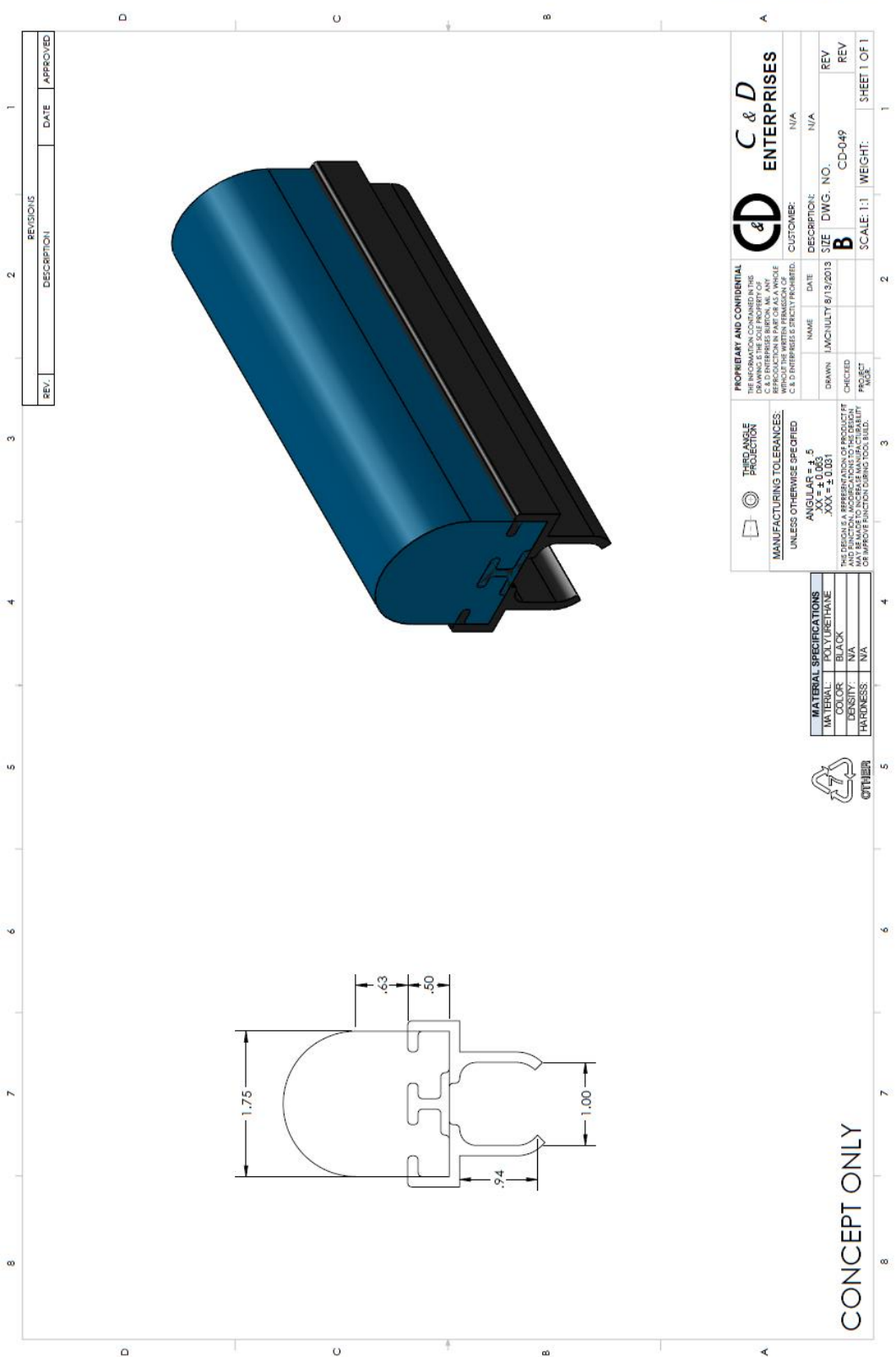
MATERIAL	PLASTIC/PETITATE
COLOR	BLACK
DENSITY	N/A
HARDNESS	N/A



CONCEPT ONLY

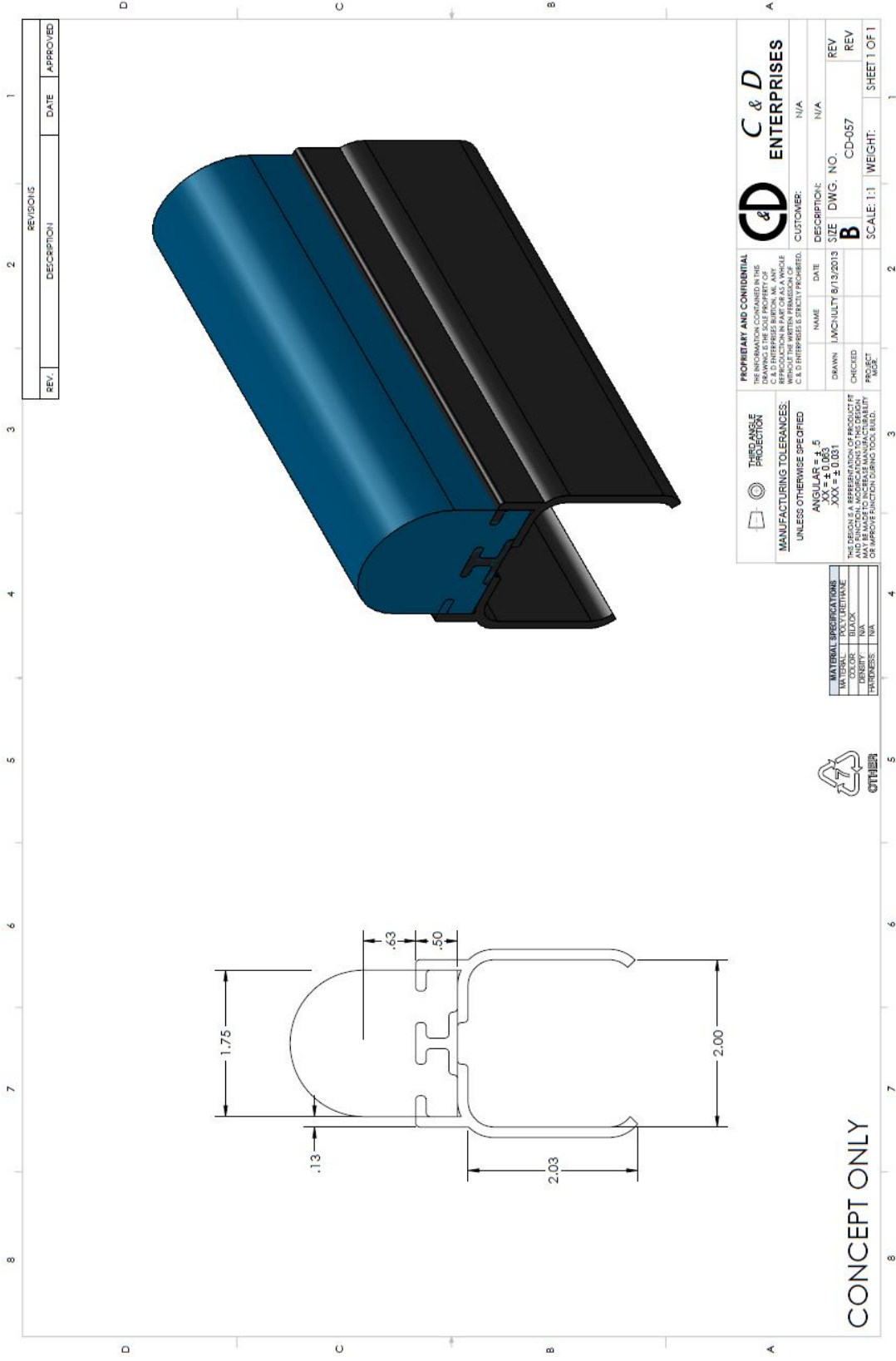
UNCONTROLLED WHEN PRINTED OR IN PDF FORM

REV.	DESCRIPTION	DATE	APPROVED



THIRD ANGLE PROJECTION		PROPRIETARY AND CONFIDENTIAL	
UNLESS OTHERWISE SPECIFIED: ANGULAR TOLERANCES: XXX = 0.001		THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF C & D ENTERPRISES. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF C & D ENTERPRISES. ALL RIGHTS RESERVED.	
MATERIAL SPECIFICATIONS		C & D ENTERPRISES	
MATERIAL:	POLYURETHANE	NAME:	N/A
COLOR:	BLACK	DATE:	8/13/2013
DENSITY:	N/A	DESCRIPTION:	N/A
HARDNESS:	N/A	SIZE:	B
OTHER		DWG. NO.:	CD-049
		CHECKED:	
		DATE:	
		SCALE:	1:1
		WEIGHT:	
		SHEET:	1 OF 1

CONCEPT ONLY



REV.	DESCRIPTION	DATE	APPROVED

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THE CHANCE PROTECTION
 MANUFACTURING TOLERANCES:
 UNLESS OTHERWISE SPECIFIED:
 ANGULAR: ±0.05°
 LINEAR: .XXX ± 0.001

THIS DESIGN IS A REPRESENTATION OF PRODUCT FIT AND FUNCTION. MODIFICATIONS TO THE DESIGN AND DIMENSIONS ARE ALLOWED TO IMPROVE OR IMPROVE FUNCTION DURING TOOL BUILD.

C & D ENTERPRISES
 CUSTOMER: N/A

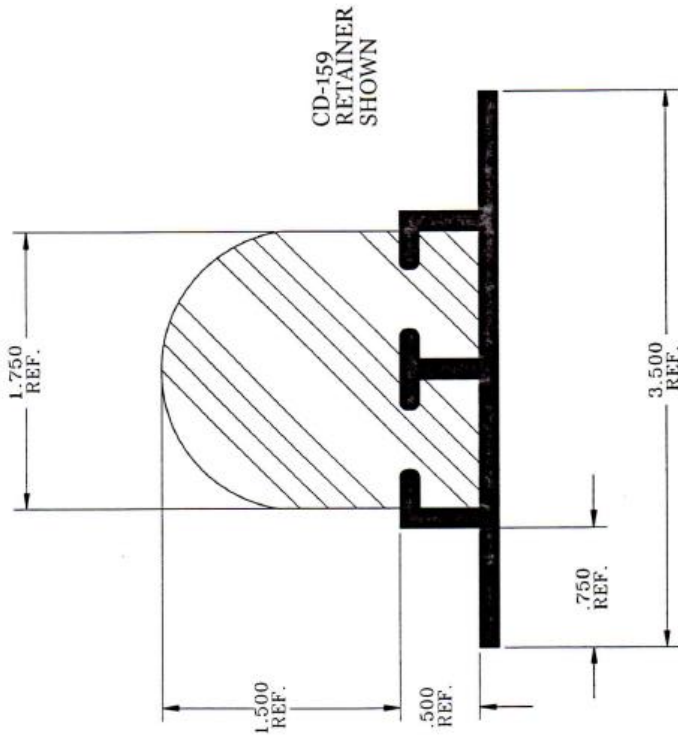
NAME	DATE	DESCRIPTION:	SIZE	DWG. NO.	REV
DRAWN					
CHECKED					

SCALE: 1:1 | WEIGHT: SHEET 1 OF 1

MATERIAL SPECIFICATIONS	
TYPICAL	
TENSILE	
YIELD	
DENSITY	
THICKNESS	



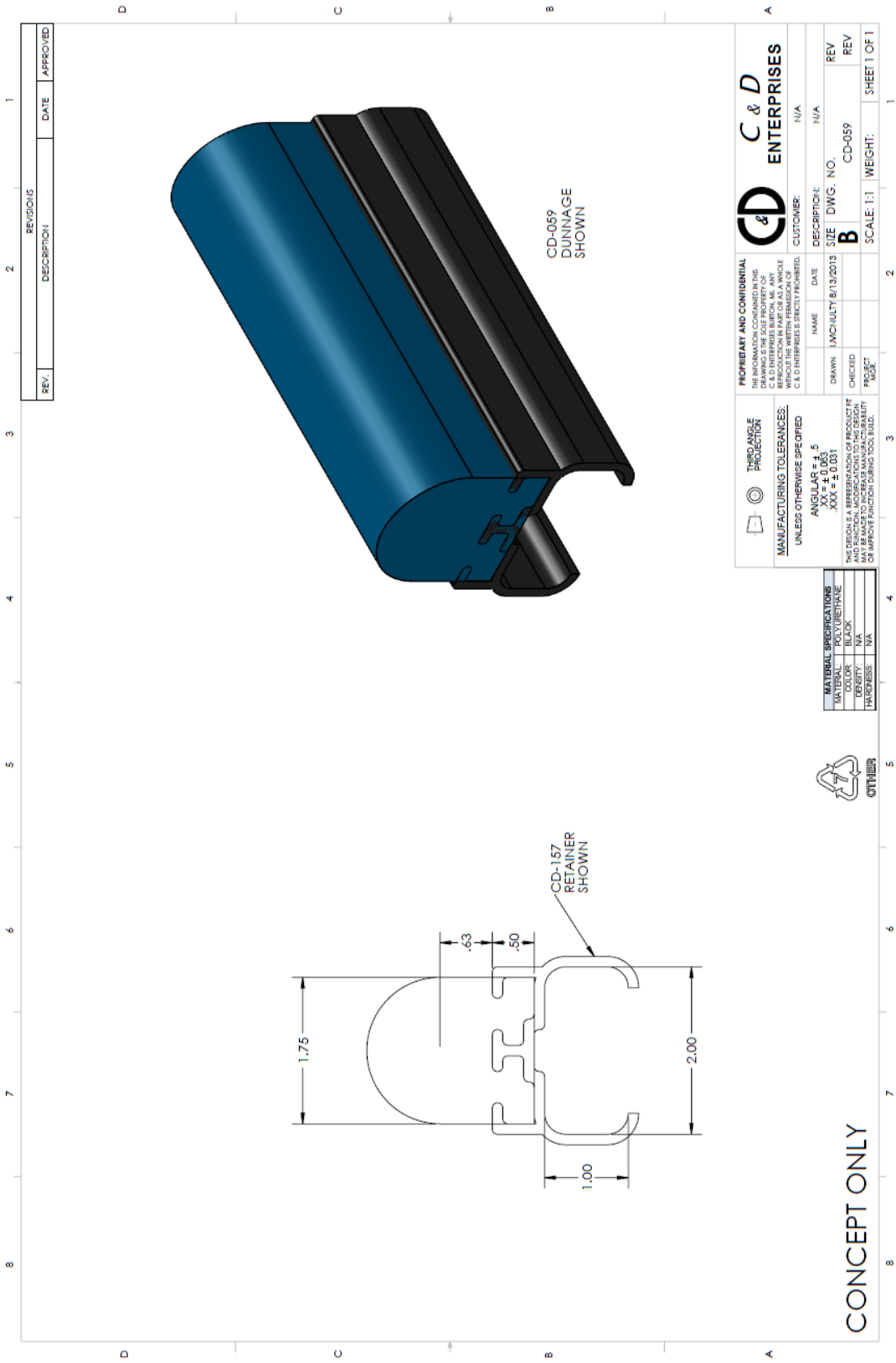
CONCEPT ONLY



NOTE:

THE "SNAP ON DUNNAGE"™ RETAINER SYSTEM IS A PATENT PENDING, PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS, INCLUDING BUT NOT LIMITED TO URETHANE, INJECTION MOLDED OR FABRICATED MATERIALS.

 ENTERPRISES <small>ESTABLISHED 1977</small>	1929 NORTH OPDYKE AUBURN HILLS, MI 48326-2664 PHONE (248) 373-0011 FAX (248) 373-3470	
	ISO 9001:2000 Registered	
MATERIALS: PVC & URETHANE		
TITLE: SNAP ON DUNNAGE™ CUSHION HALF ROUND		
C&D# CD-058		DATE: 7/23/04 REV. DATE: 3/02/05
THIRD ANGLE PROJECTION DO NOT SCALE DRAWING MANUFACTURING TOLERANCES UNLESS OTHERWISE SPECIFIED ANGULAR = $\frac{1}{2}$.5 XX = 1 .06 XXX = 1 .031		



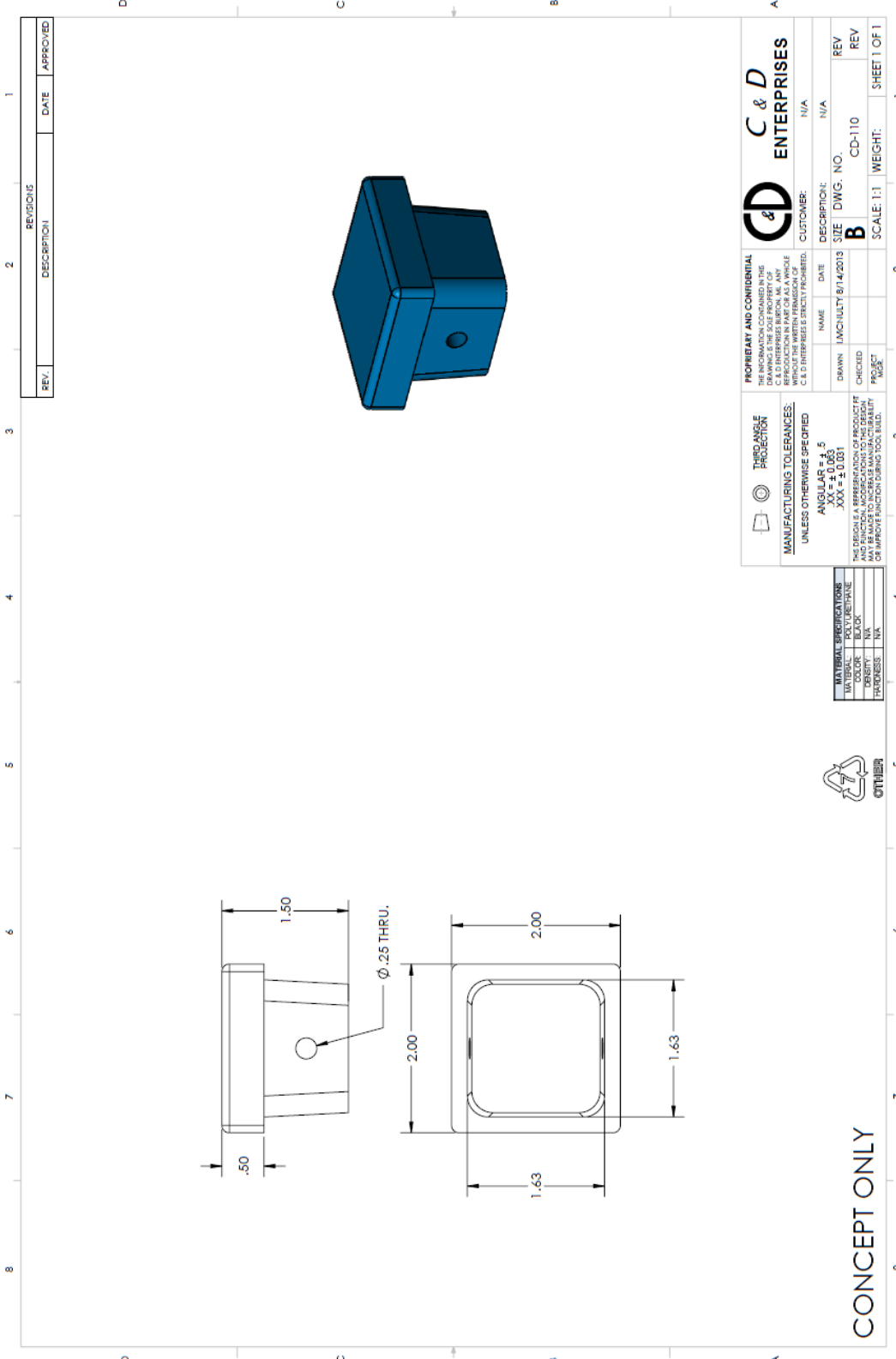
REV.	DESCRIPTION	DATE	APPROVED

		C & D ENTERPRISES	
PROPRIETARY AND CONFIDENTIAL THIS DRAWING IS THE SOLE PROPERTY OF C & D ENTERPRISES. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF C & D ENTERPRISES. STRICTLY FORBIDDEN.	NAME: _____ DATE: _____ DRAWN: JMC/JULY 8/13/2013 CHECKED: _____ PROJECT: _____	DESCRIPTION: N/A SIZE: B DWG. NO: CD-059 SCALE: 1:1 WEIGHT: _____	CUSTOMER: N/A REV: _____ REV: _____ SHEET 1 OF 1

THIRD ANGLE PROJECTION UNLESS OTHERWISE SPECIFIED: ANGULAR = ± .5 .XX = ± 0.001 .XXX = ± 0.001 THIS SPECIFICATION IS THE PROPERTY OF C & D ENTERPRISES. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF C & D ENTERPRISES. STRICTLY FORBIDDEN.	
MATERIAL SPECIFICATIONS MATERIAL: POLYURETHANE FINISH: BLACK TOLERANCE: N/A DENSITY: N/A THICKNESS: N/A	

CONCEPT ONLY

UNCONTROLLED WHEN PARTIAL IN R/F FORM



REV.	DESCRIPTION	DATE	APPROVED
1			

PROPERTY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF C & D ENTERPRISES. NO REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF C & D ENTERPRISES IS STRICTLY PROHIBITED.

THIRD ANGLE PROJECTION
 MANUFACTURING TOLERANCES:
 UNLESS OTHERWISE SPECIFIED:
 ANGULARS ± .5
 DIMENSIONS .XXX ± 0.001

C & D ENTERPRISES
 CUSTOMER: N/A
 DESCRIPTION: N/A
 DRAWN: LMCHULTY/8/14/2018
 SIZE: B
 DWG. NO.: CD-110
 DATE: 8/14/2018
 CHECKED: []
 PROJECT: []
 PAGE: []

SCALE: 1:1 WEIGHT: SHEET 1 OF 1

MATERIAL SPECIFICATIONS

W/ WEIGHT	N/A
COLOR	BLACK
DENSITY	N/A
HARDNESS	N/A

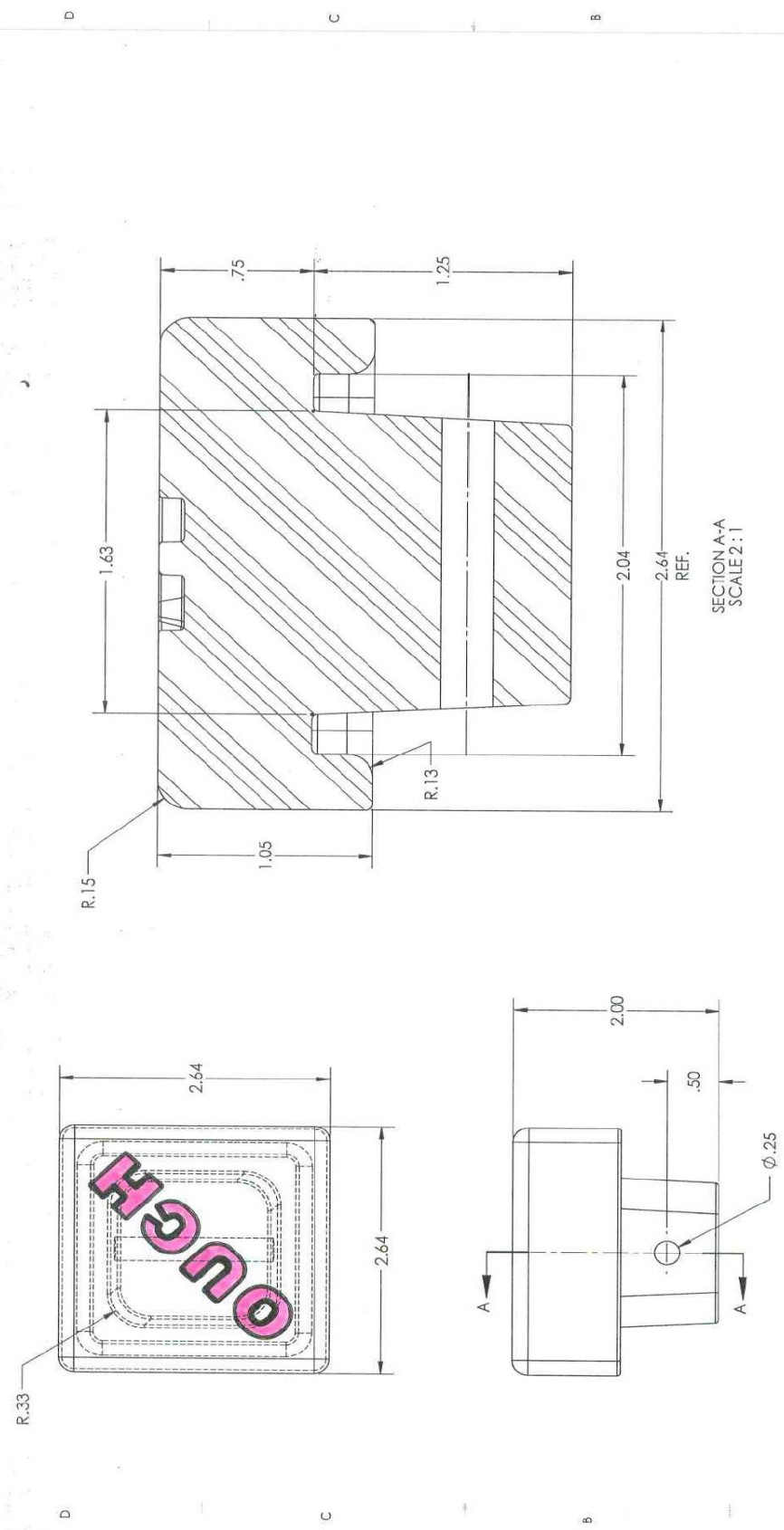


CONCEPT ONLY

UNCONTROLLED WHEN PRINTED IN PDF FORM

1
2
3
4
5
6
7
8

REV.	DESCRIPTION	DATE	APPROVED

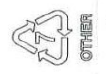


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		C & D ENTERPRISES CUSTOMER: OUCH PAD
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF C & D ENTERPRISES. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN PERMISSION OF C & D ENTERPRISES & STRICTLY PROHIBITED.		DESCRIPTION: B SIZE: CD-1100 DWG. NO.: CD-1100 REV: -
THIRD ANGLE PROJECTION MANUFACTURING TOLERANCES: UNLESS OTHERWISE SPECIFIED ANGULAR = ± .5 .XX = ± 0.063 .XXX = ± 0.031	NAME: R. SMITH DATE: 1/17/2016 DRAWN: R. SMITH CHECKED: [] PROJECT: []	SCALE: 1:1 WEIGHT: SHEET 1 OF 1

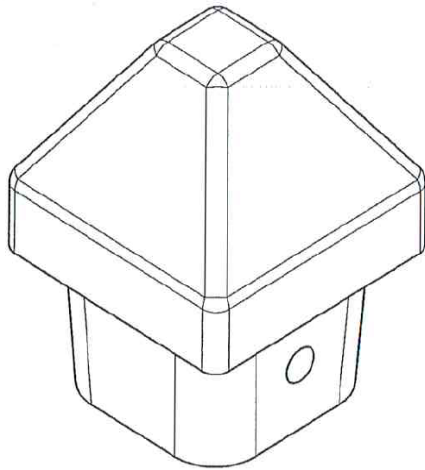
VOL = 8.8 CUBIC INCHES

MATERIAL:	POLYURETHANE
COLOR:	BLACK
DENSITY:	27 PCF
HARDNESS:	60 SHORE A

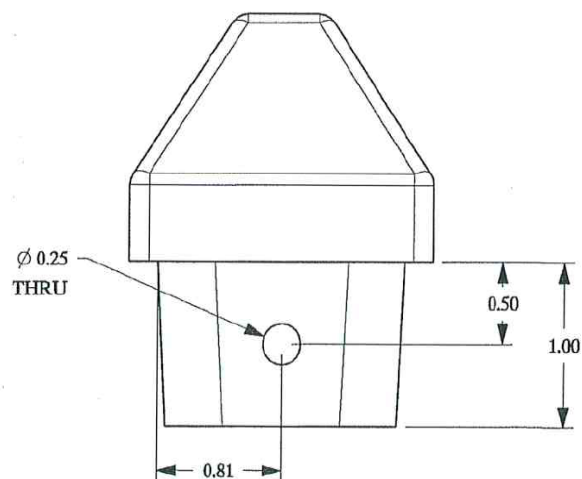
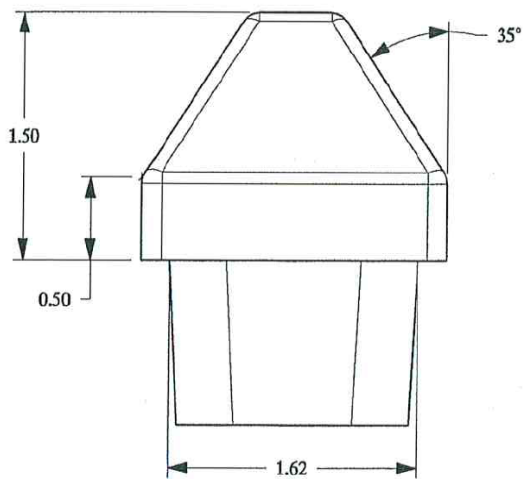
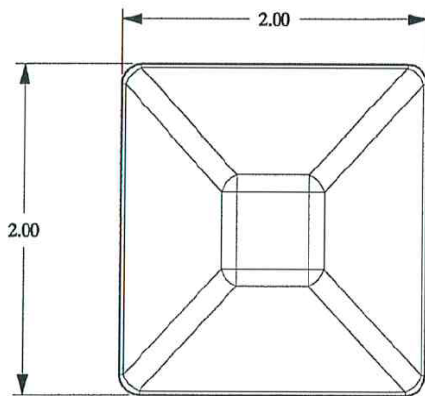


C&D ENTERPRISES

CD-110-A

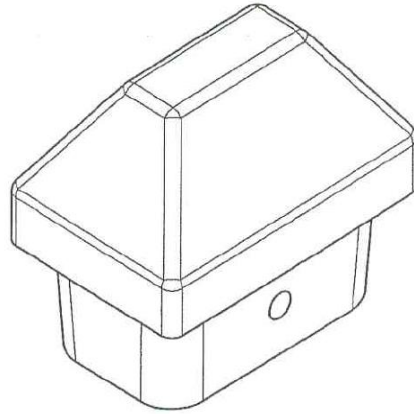


NAME: 2.00 X 2.00 TUBING PANEL STOP LEAD-IN

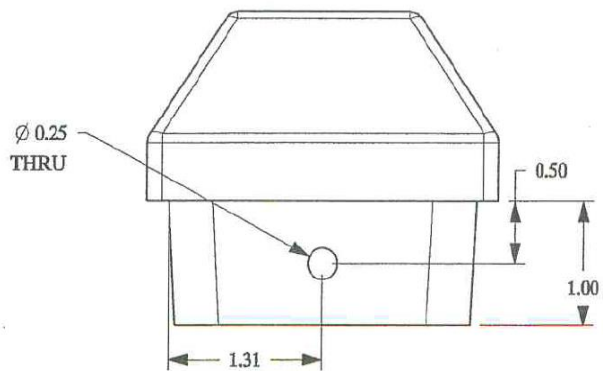
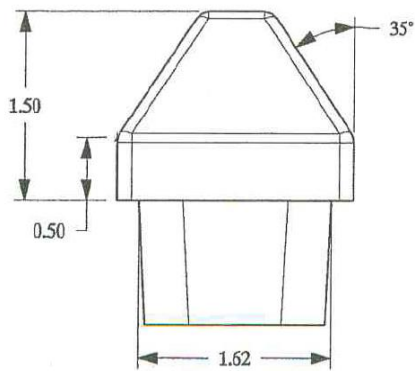
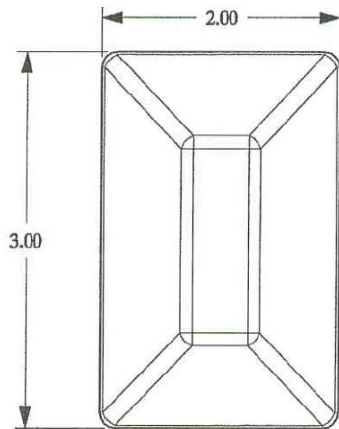


C&D ENTERPRISES

CD-110-B

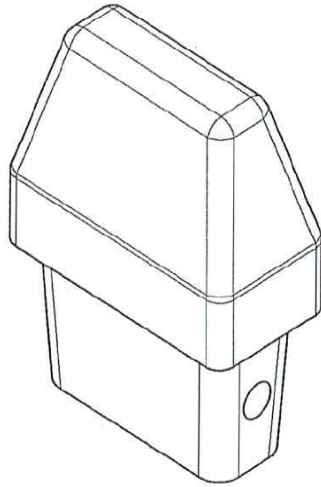


NAME: 3.00 X 2.00 TUBING PANEL STOP LEAD-IN

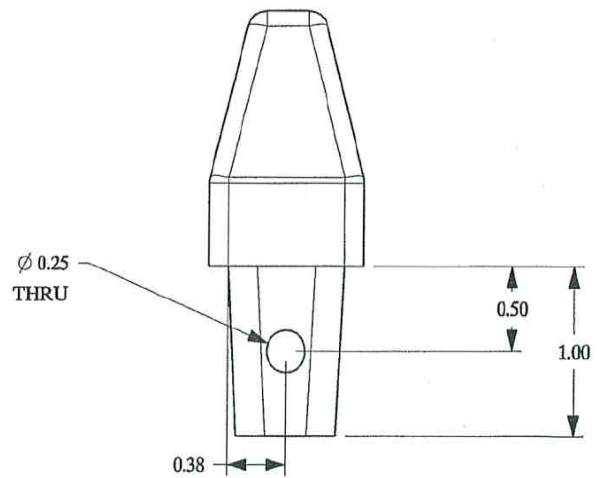
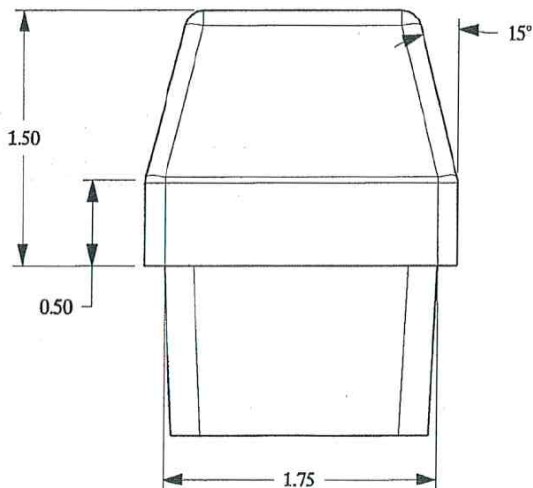
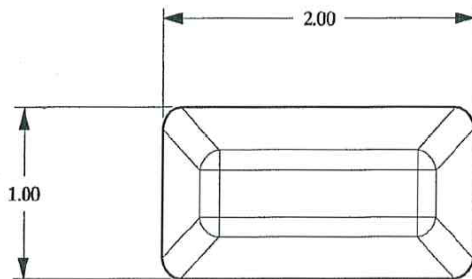


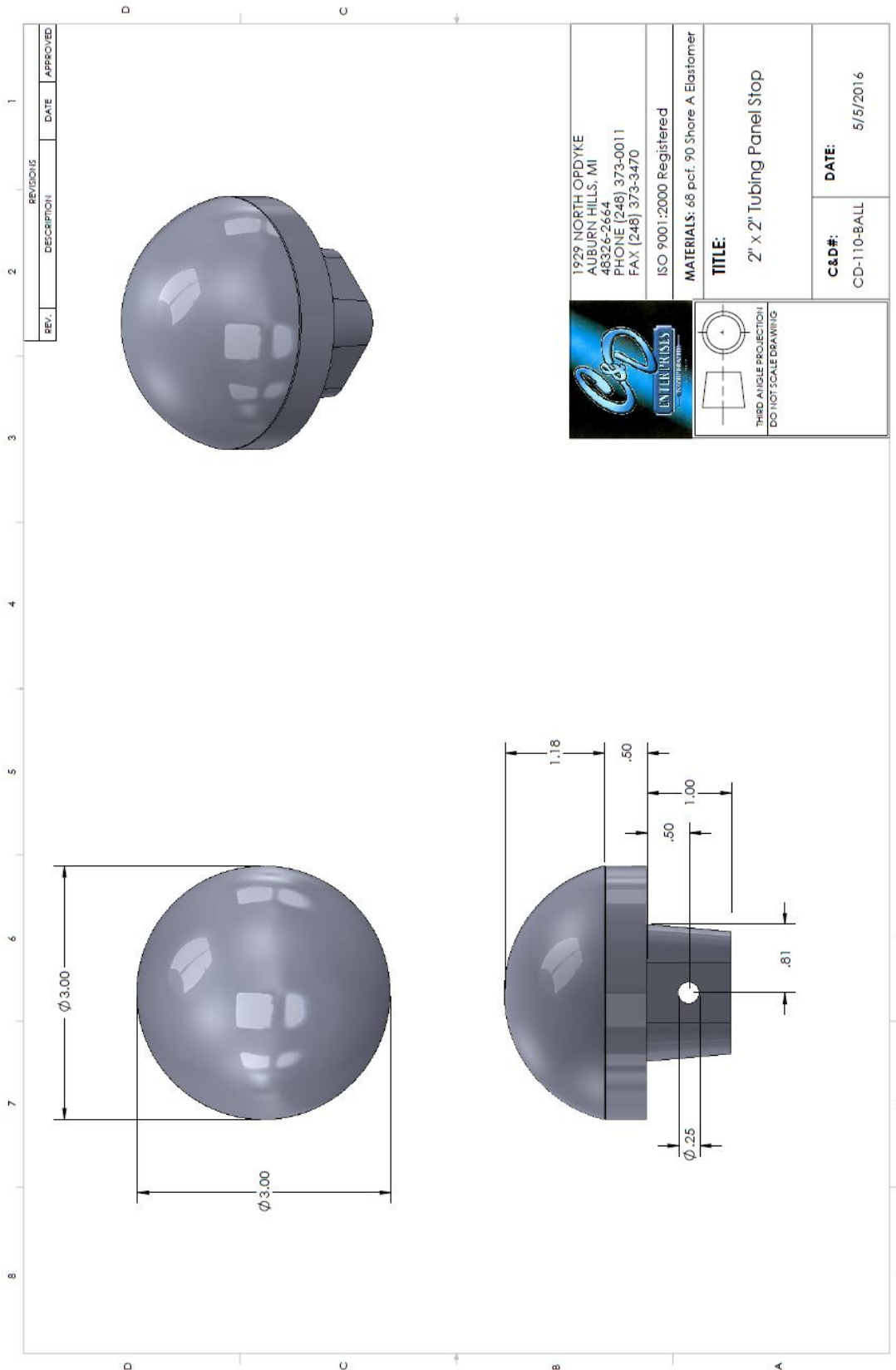
C&D ENTERPRISES

CD-110-C



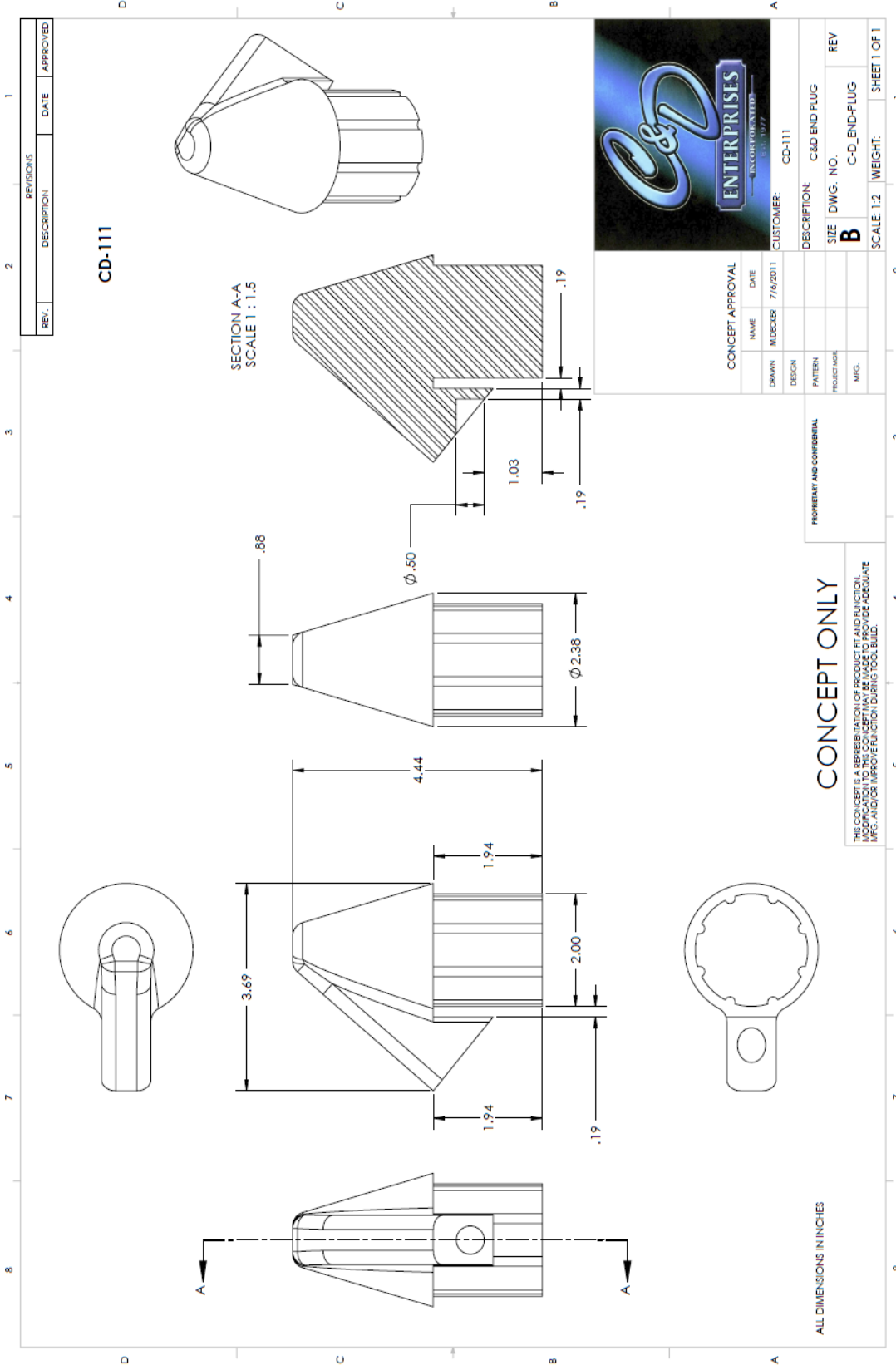
NAME: 2.00 X 1.00 TUBING PANEL STOP LEAD-IN





	1929 NORTH OPDYKE AUBURN HILLS, MI 48326-2664 PHONE (248) 373-0011 FAX (248) 373-3470
	ISO 9001:2000 Registered MATERIALS: .68 pct. 90 Shore A Elastomer
TITLE: 2" x 2" Tubing Panel Stop	
C&D#: CD-110-BALL	DATE: 5/5/2016


 THIRD ANGLE PROJECTION
 DO NOT SCALE DRAWING



REV.		REVISIONS	
REV.	DESCRIPTION	DATE	APPROVED

CD-111

SECTION A-A
SCALE 1:1.5

ALL DIMENSIONS IN INCHES



CUSTOMER:		CD-111
DESCRIPTION:		C&D END PLUG
SIZE	DWG. NO.	REV
B		
SCALE: 1:2		WEIGHT: SHEET 1 OF 1

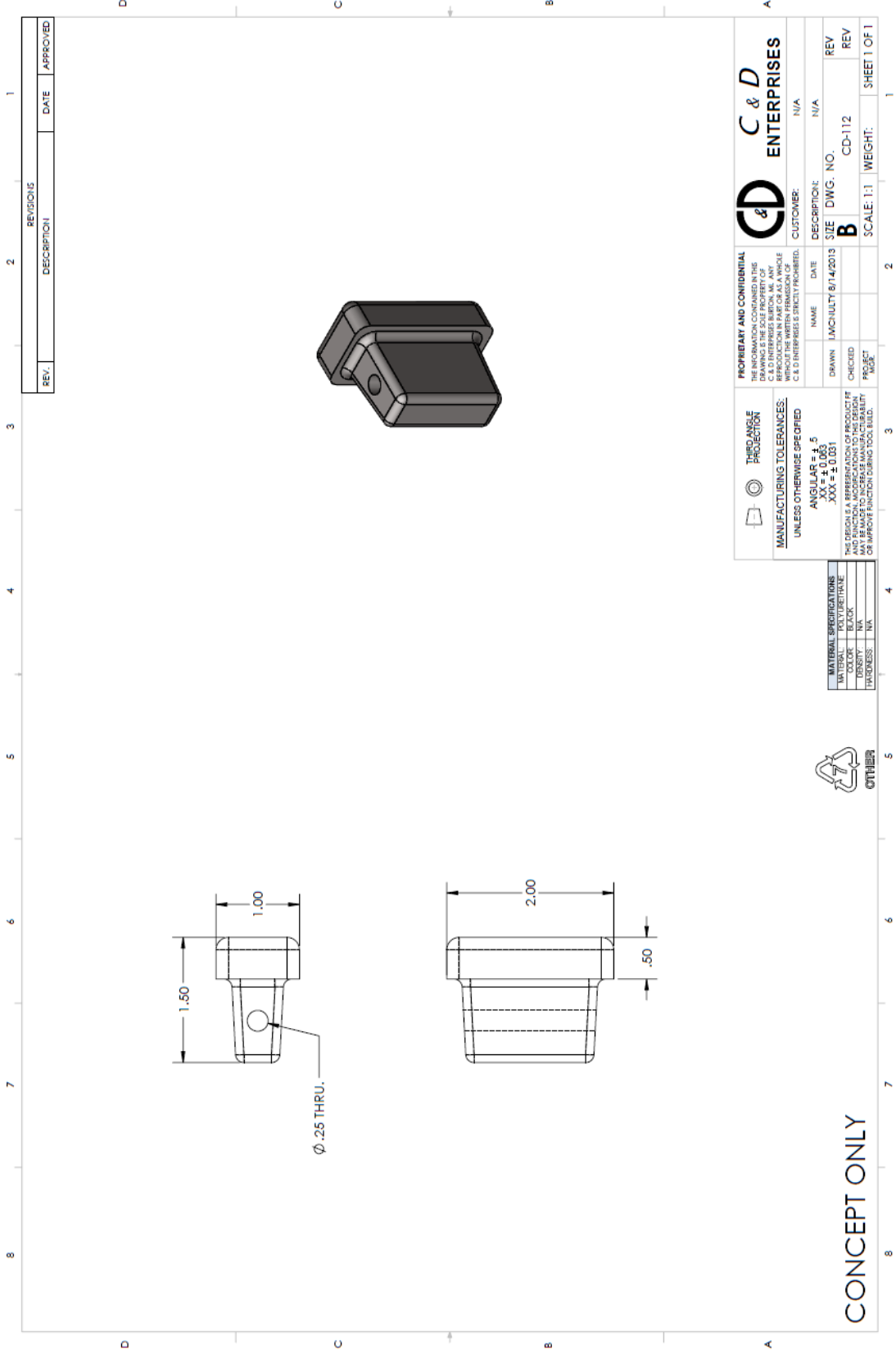
CONCEPT APPROVAL

NAME	DATE
DESIGN	7/6/2011
PATTERN	
PROJECT MGR.	
MFG.	

PROPERTY AND CONFIDENTIAL

CONCEPT ONLY

THIS CONCEPT IS A REPRESENTATION OF PRODUCTIVITY AND INNOVATION. IT IS NOT A FINAL DESIGN. ANY CHANGES TO THIS CONCEPT WILL BE MADE BY THE CUSTOMER AND/OR APPROVED BY THE CUSTOMER DURING TOOL BUILD.



REV.	DESCRIPTION	DATE	APPROVED

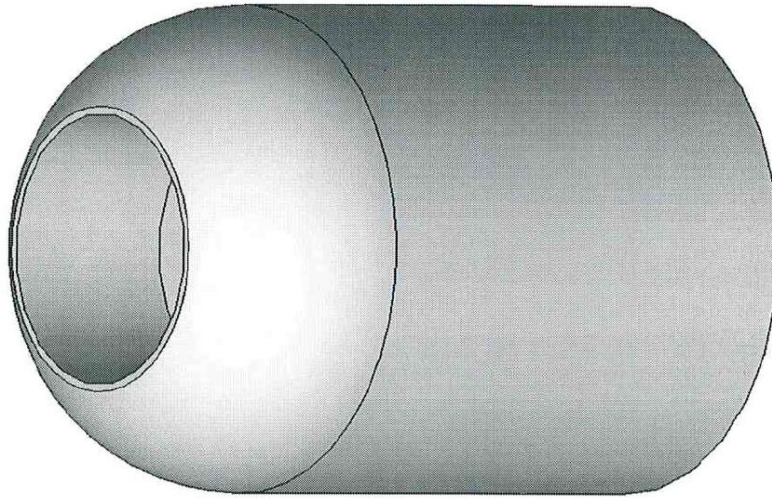
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE PROPERTY OF C & D ENTERPRISES & SHOULD NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF C & D ENTERPRISES & IS STRICTLY CONFIDENTIAL.		C & D ENTERPRISES	
NAME	DATE	DESCRIPTION	CUSTOMER
			N/A
DRAWN	JWCHULTY 6/14/2013	SIZE	DWG. NO.
CHECKED		B	CD-112
PROJECT		SCALE	1:1
WEIGHT			SHEET 1 OF 1

THIRD ANGLE PROJECTION	
UNLESS OTHERWISE SPECIFIED:	
ANGULAR	± .5
XX	± 0.003
XXX	± 0.031
THIS DRAWING IS A REPRESENTATION OF PRODUCT IT MAY BE MADE TO INCREASE MANUFACTURABILITY OR IMPROVE FUNCTION DURING TOOL BUILD.	

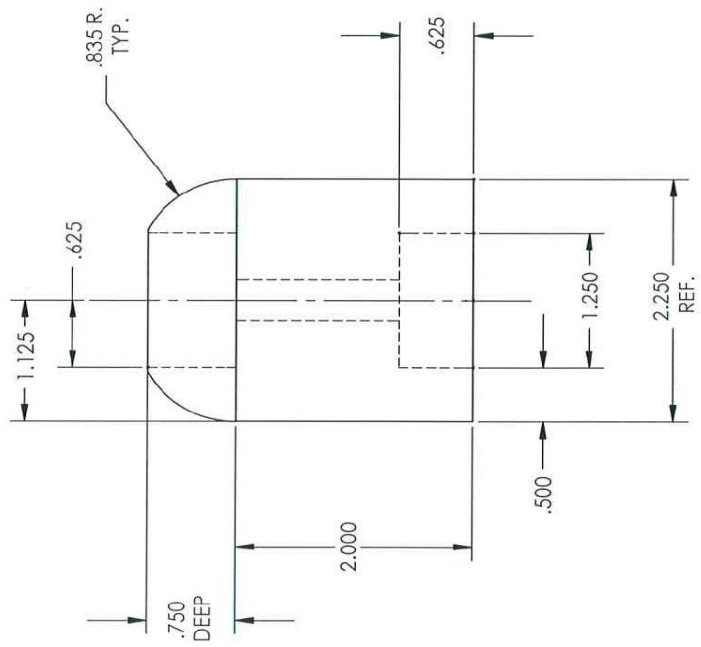
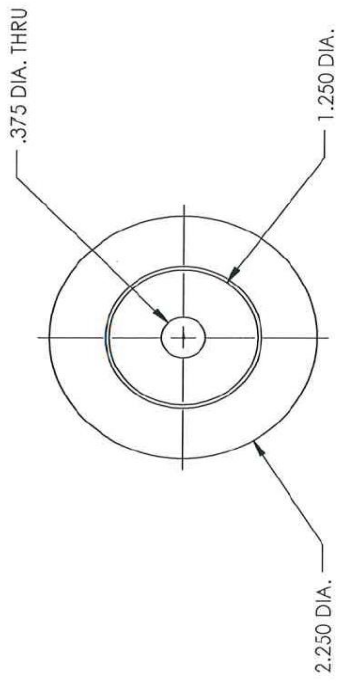
MATERIAL SPECIFICATIONS	
FINISH	AS SUPPLIED
COLOR	BLACK
DENSITY	N/A
HARDNESS	N/A



CONCEPT ONLY



THIRD ANGLE PROJECTION DO NOT SCALE DRAWING MANUFACTURING TOLERANCES ANGULAR = ± 5 XX = ± .05 XXX = ± .001	C & D Enterprises, Inc.			CD-116	SHEET 1 OF 2
	FILED	CD-116	BUMP Pad/Stop Damage		
	DRAWN	DATE	SCALE		
	DUNKER	12-02-05	FMT / CH		



MATERIAL SPECIFICATIONS	
MATERIAL	POLYURETHANE
COLOR	BLACK
DENSITY	# PCF
HARDNESS	# C-5

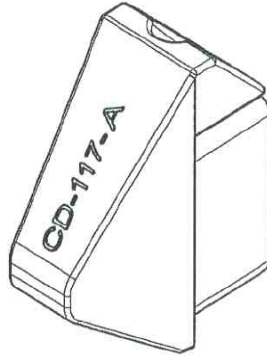
1. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED.
 2. DIMENSIONS MUST BE CHECKED BY LATEST EDITION OF THE DIMENSIONAL STANDARDS HANDBOOK.
 3. NO MATERIAL SUBSTITUTION ALLOWED.
 4. ALL PARTS TO BE FREE OF RELEASE AGENTS.
 5. ALL PARTS MUST BE APPROXIMATELY DATE CODED AT THE TIME OF PRODUCTION.

THIRD ANGLE PROJECTION	
DO NOT SCALE DRAWING	
MANUFACTURING TOLERANCES UNLESS OTHERWISE SPECIFIED	
ANGULAR	± .5
XX	± .06
XXX	± .081
P/NL SET REL. 11/12/05 - 11/24/05-05	

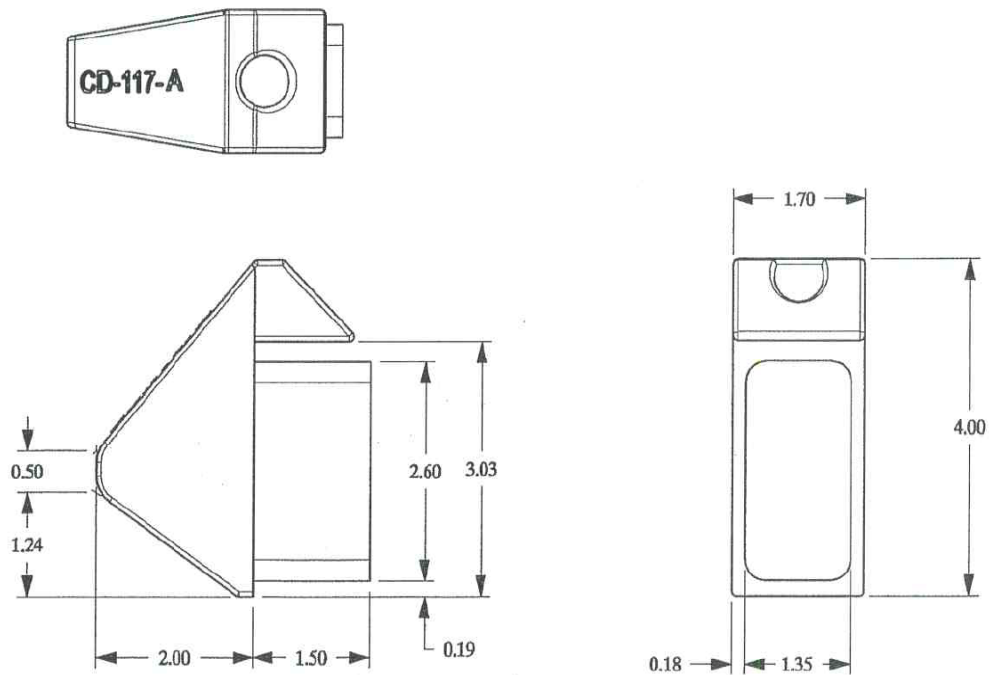
C & D Enterprises, Inc.	
CD-116	
Bump Pad/Stop Dummage	
REV	DATE / NAME
1	12-02-05 / JWC
2	12-02-05 / CHT
CD-116	
REV	DATE
1	12-02-05
2	12-02-05

C&D ENTERPRISES

CD-117-A

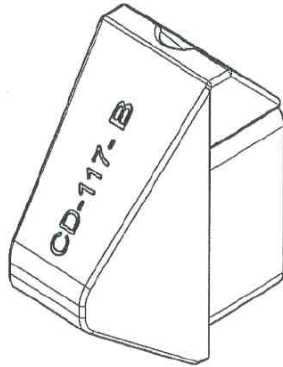


NAME: 3.00 X 1.50 TUBING PANEL STOP LEAD-IN

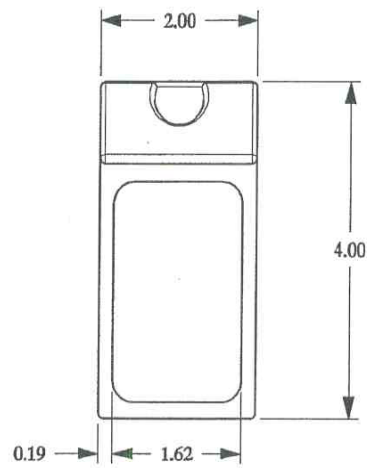
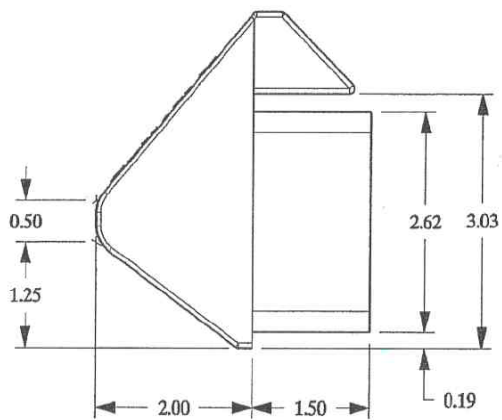
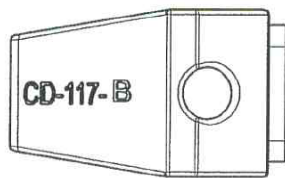


C&D ENTERPRISES

CD-117-B

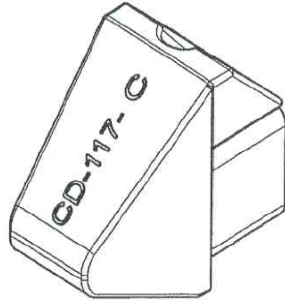


NAME: 3.00 X 2.00 TUBING PANEL STOP LEAD-IN

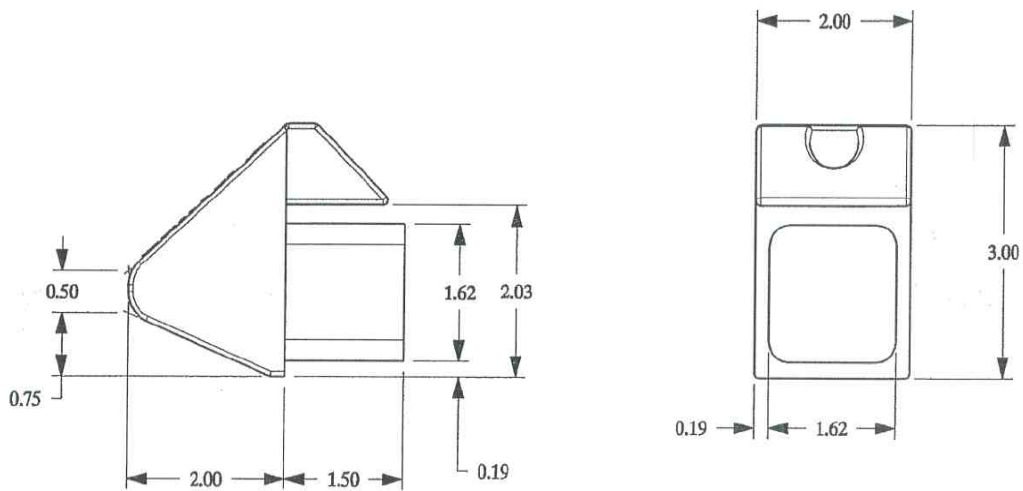
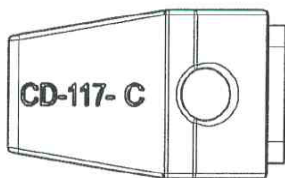


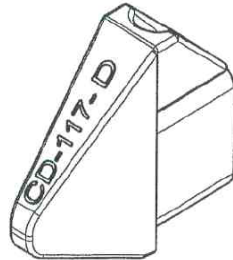
C&D ENTERPRISES

CD-117-C

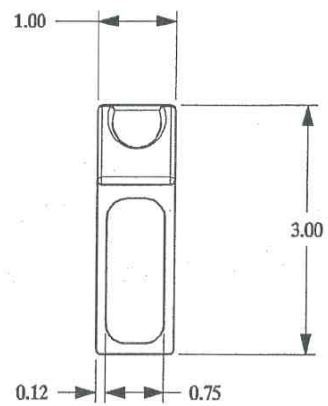
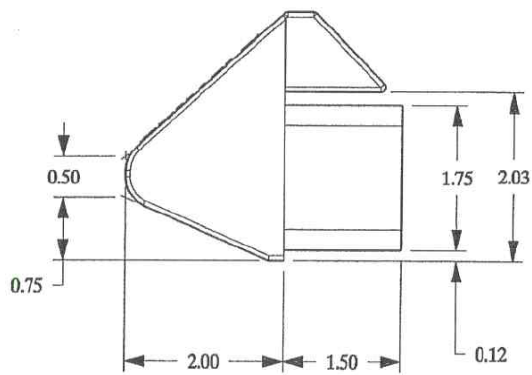
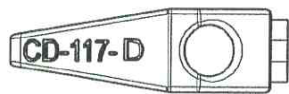


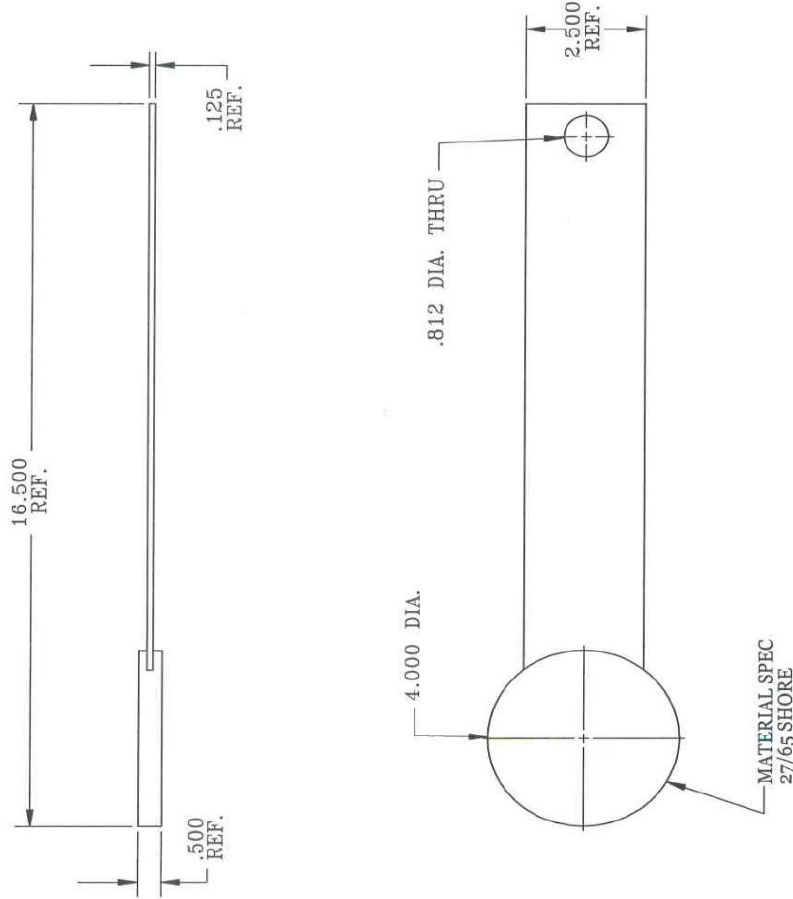
NAME: 2.00 X 2.00 TUBING PANEL STOP LEAD-IN





NAME: 2.00 X 1.00 TUBING PANEL STOP LEAD-IN

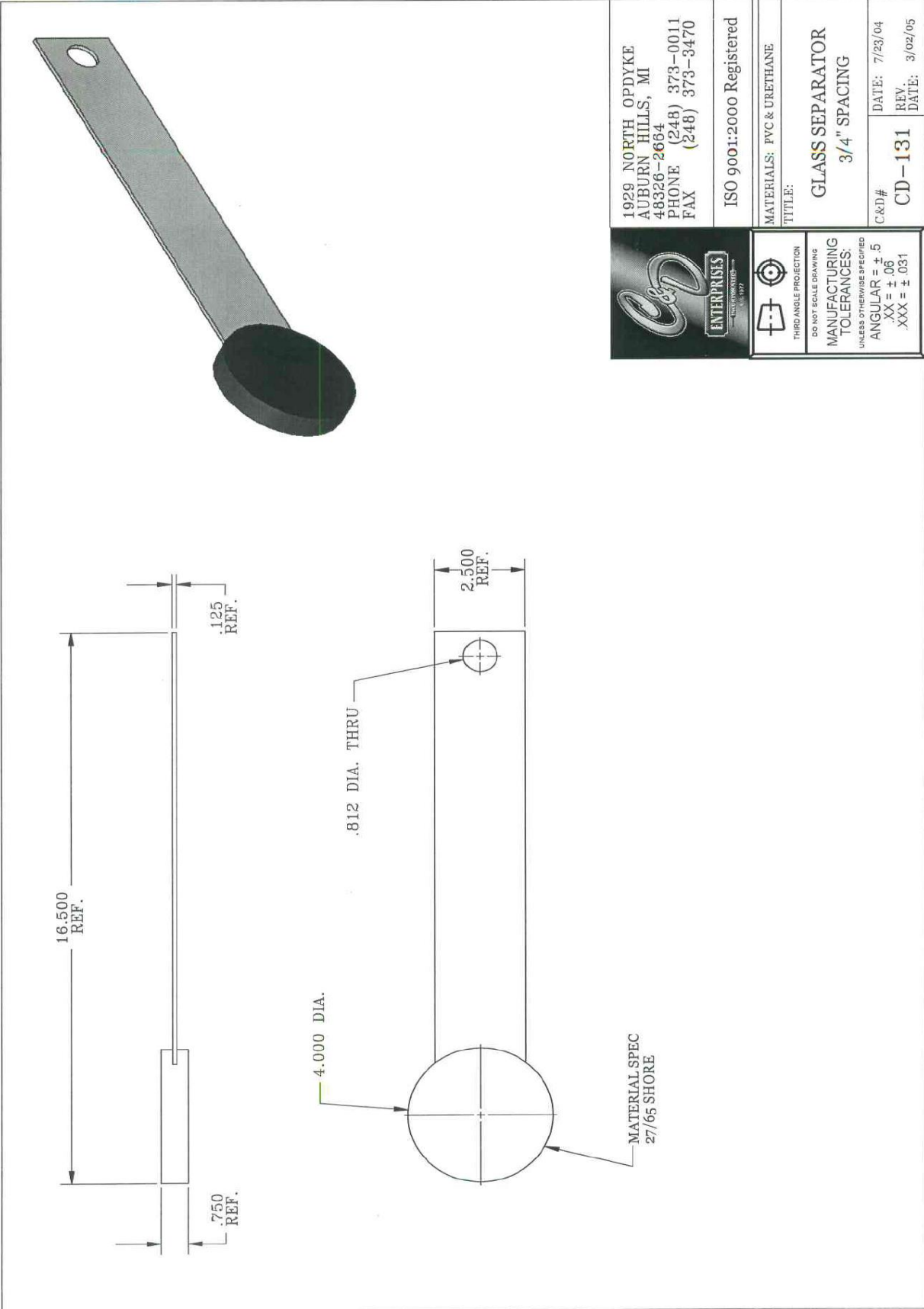




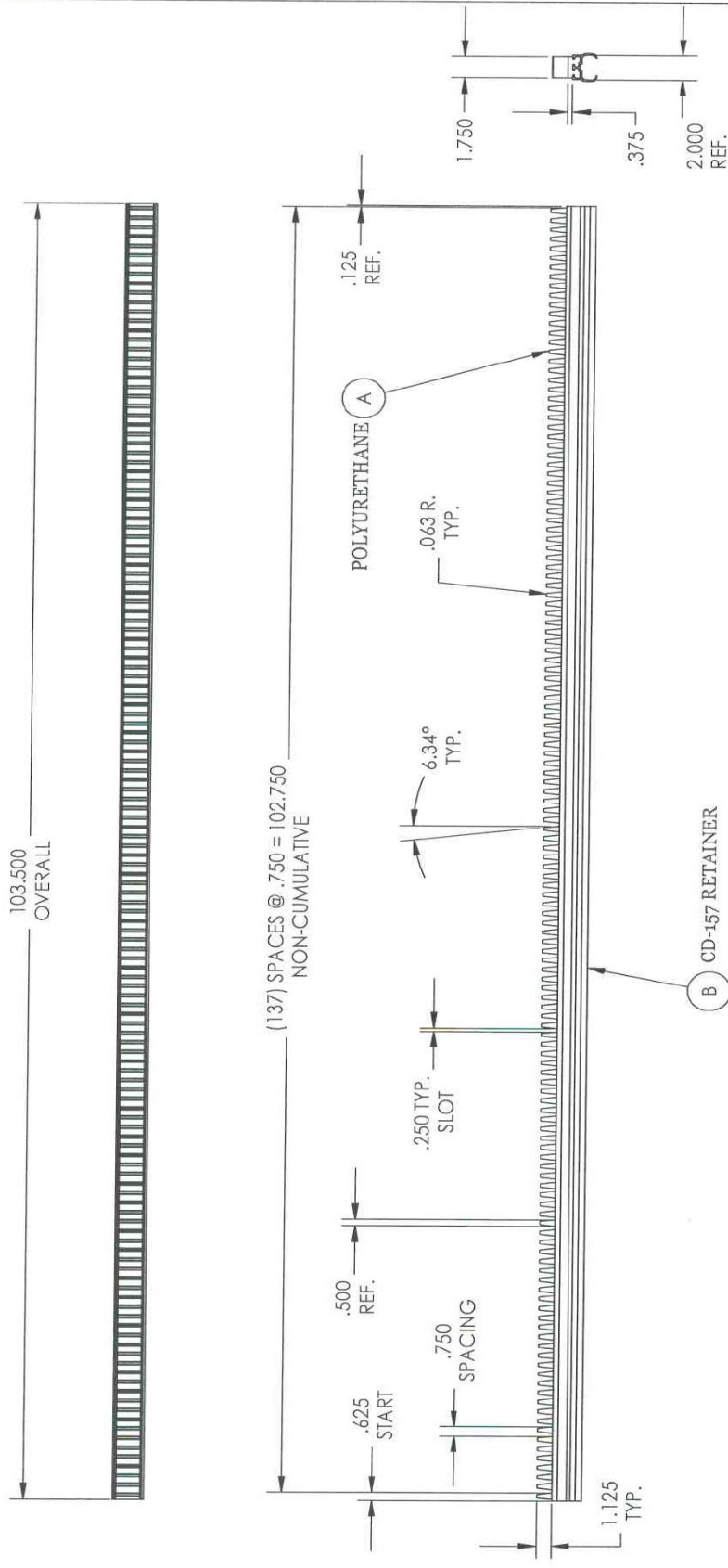
1929 NORTH OPDYKE
 AUBURN HILLS, MI
 48326-2664
 PHONE (248) 373-0011
 FAX (248) 373-3470

ISO 9001:2000 Registered

MATERIALS: PVC & URETHANE TITLE: GLASS SEPARATOR 1/2" SPACING		DATE: 7/23/04 REV. DATE: 3/02/05
C&D# CD-130		
THIRD ANGLE PROJECTION DO NOT SCALE DRAWING MANUFACTURING TOLERANCES UNLESS OTHERWISE SPECIFIED ANGULAR = ± .5 .XX = ± .06 .XXX = ± .031		

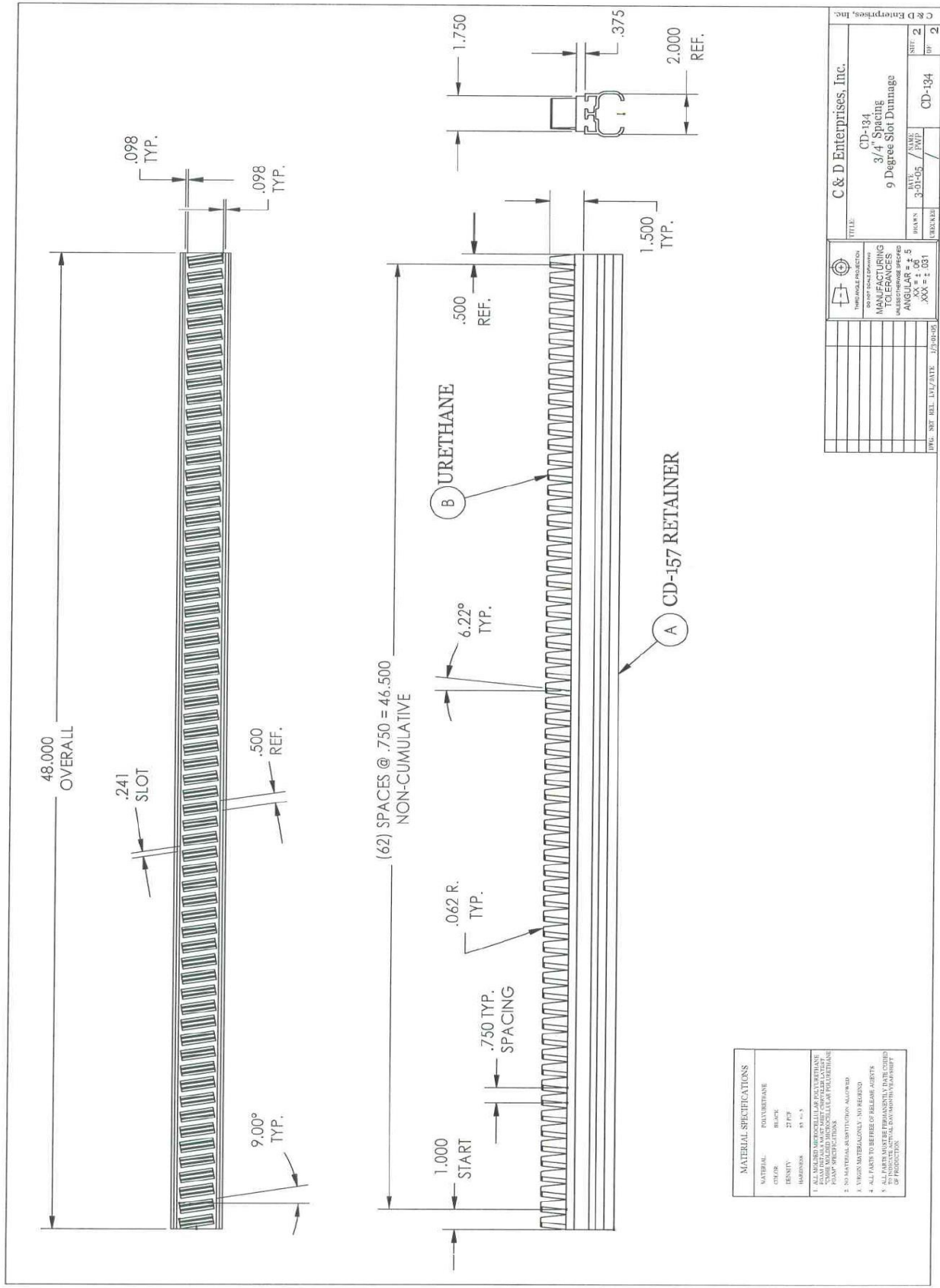


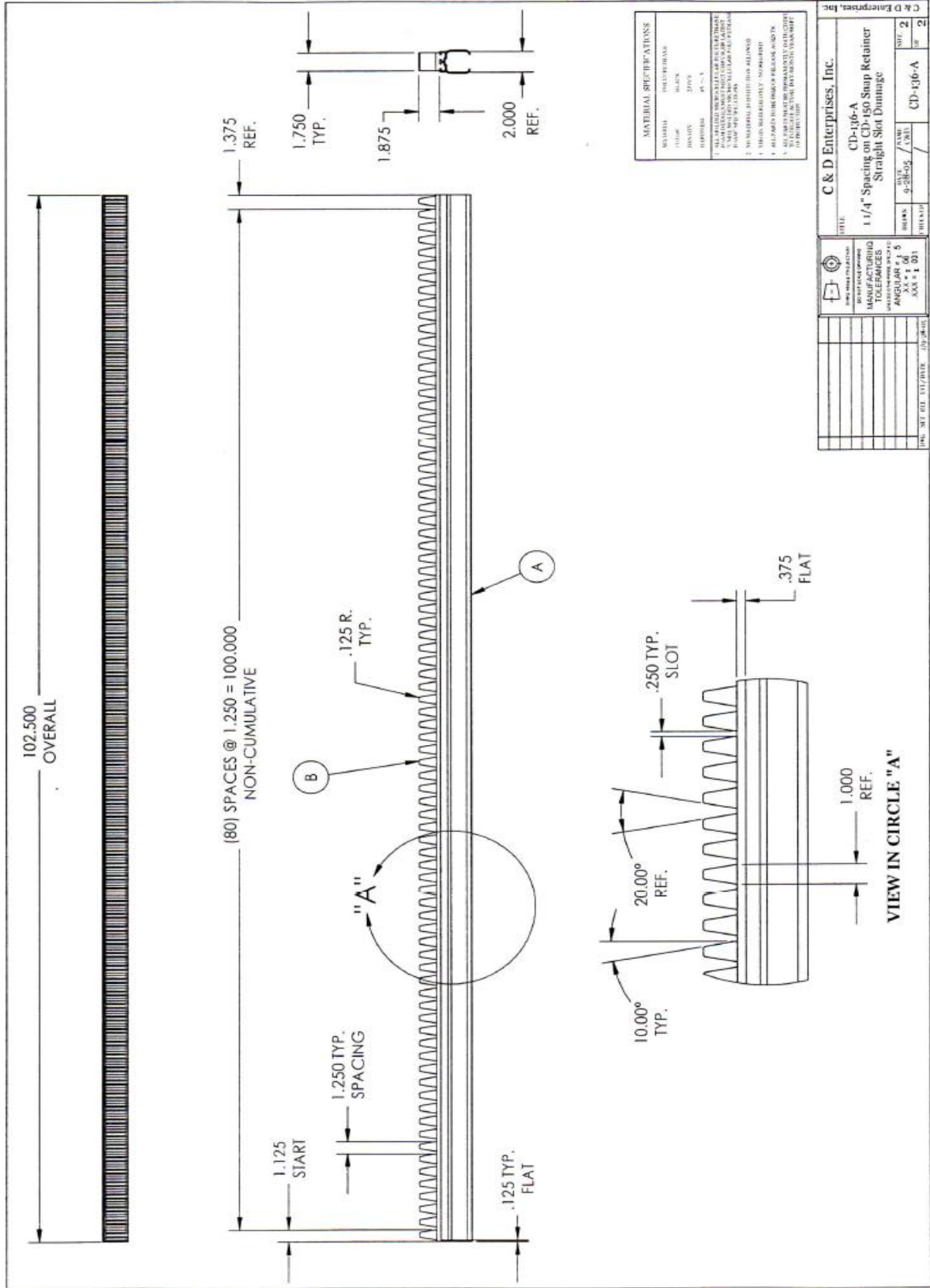
	1929 NORTH OPDYKE AUBURN HILLS, MI 48326-2664 PHONE (248) 373-0011 FAX (248) 373-3470	
	ISO 9001:2000 Registered	
MATERIALS: PVC & URETHANE TITLE:		
GLASS SEPARATOR 3/4" SPACING		
C&D# CD-131	DATE: 7/23/04 REV. DATE: 3/02/05	UNLESS OTHERWISE SPECIFIED ANGULAR = ± .5 .XX = ± .06 .XXX = ± .031
THIRD ANGLE PROJECTION DO NOT SCALE DRAWING MANUFACTURING TOLERANCES:		

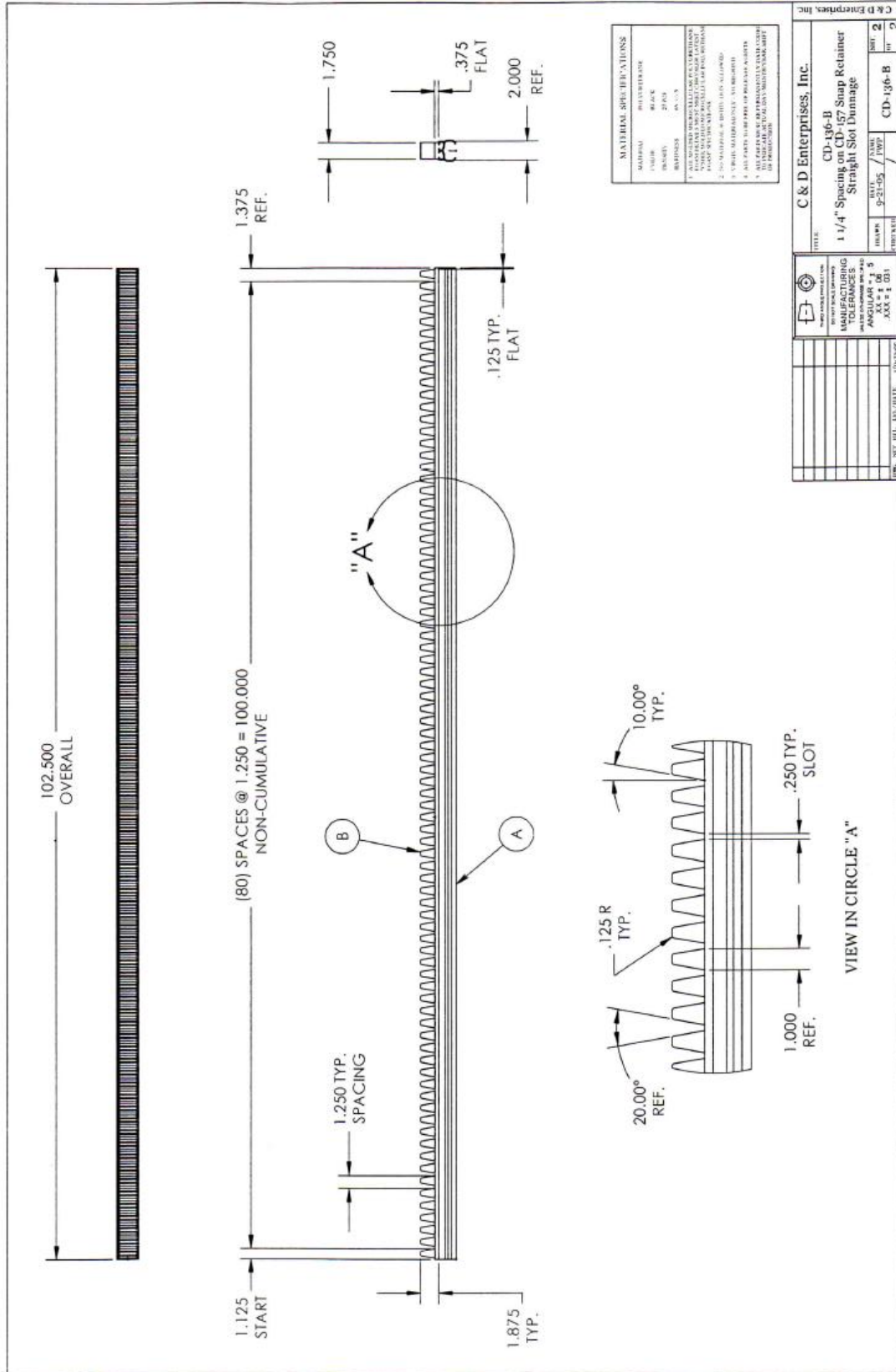


MATERIAL SPECIFICATIONS	
MATERIAL	POLYURETHANE
COLOR	BLACK
DENSITY	PPF
HARDNESS	# 1-3
1. ALL MALLEED MICROCELLULAR POLYURETHANE MUST BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING TOLERANCES AND FINISHES UNLESS OTHERWISE SPECIFIED: ANGULAR = ± .5 XXX = ± .031	
2. NO MATERIAL SUBSTITUTION ALLOWED.	
3. VERGINS MATHEMATICS - NO REF. TO.	
4. ALL PARTS TO BE FREE OF RELEASE AGENTS.	
5. ALL PARTS MUST BE PERMANENTLY MARKED WITH THE C&D PART NUMBER AND DATE OF PRODUCTION.	

C & D Enterprises, Inc.	
CD-133	
3/4" Spacing	
Straight Slot Drainage	
TITLE:	CD-133
DRAWN:	DATE:
CHECKED:	NAME:
3-01-05 /	P/PP:
3-01-05 /	C/CI:
CD-133	CD-133
2	2



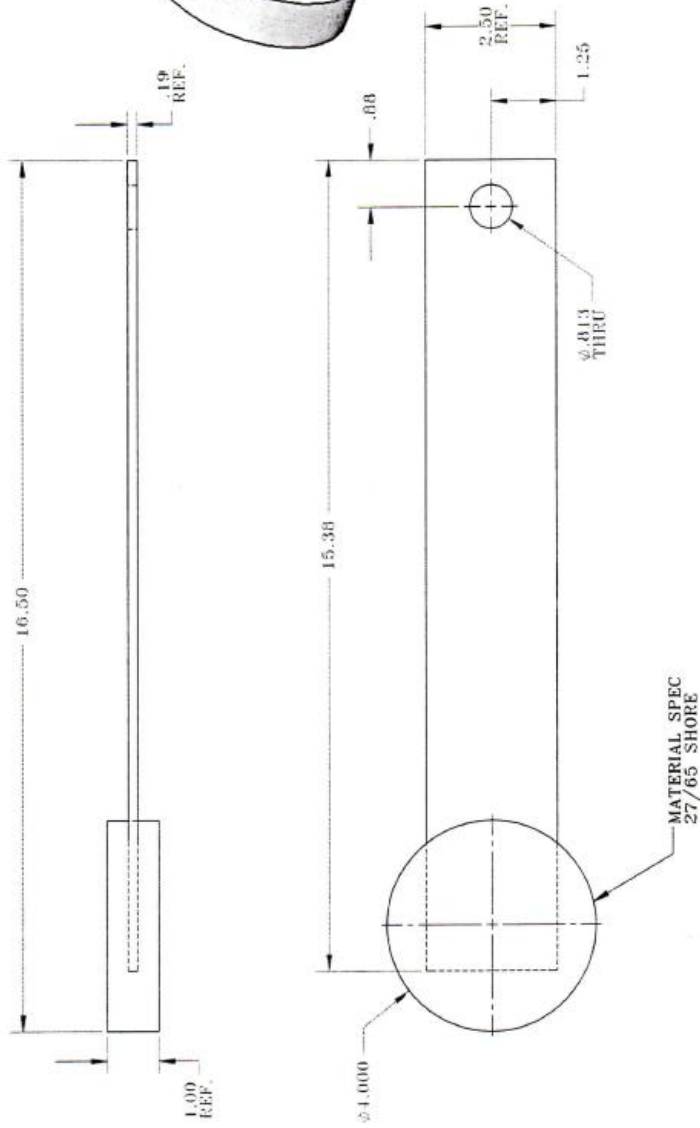
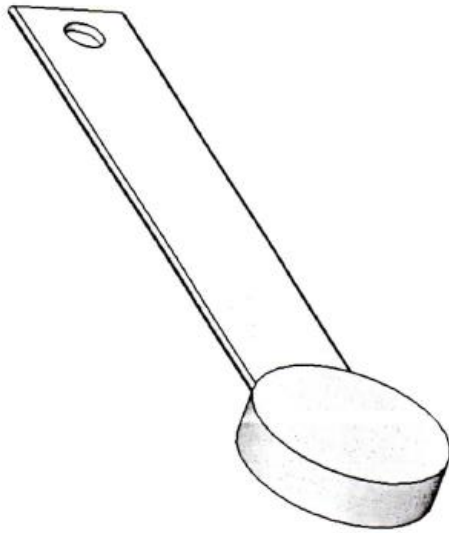




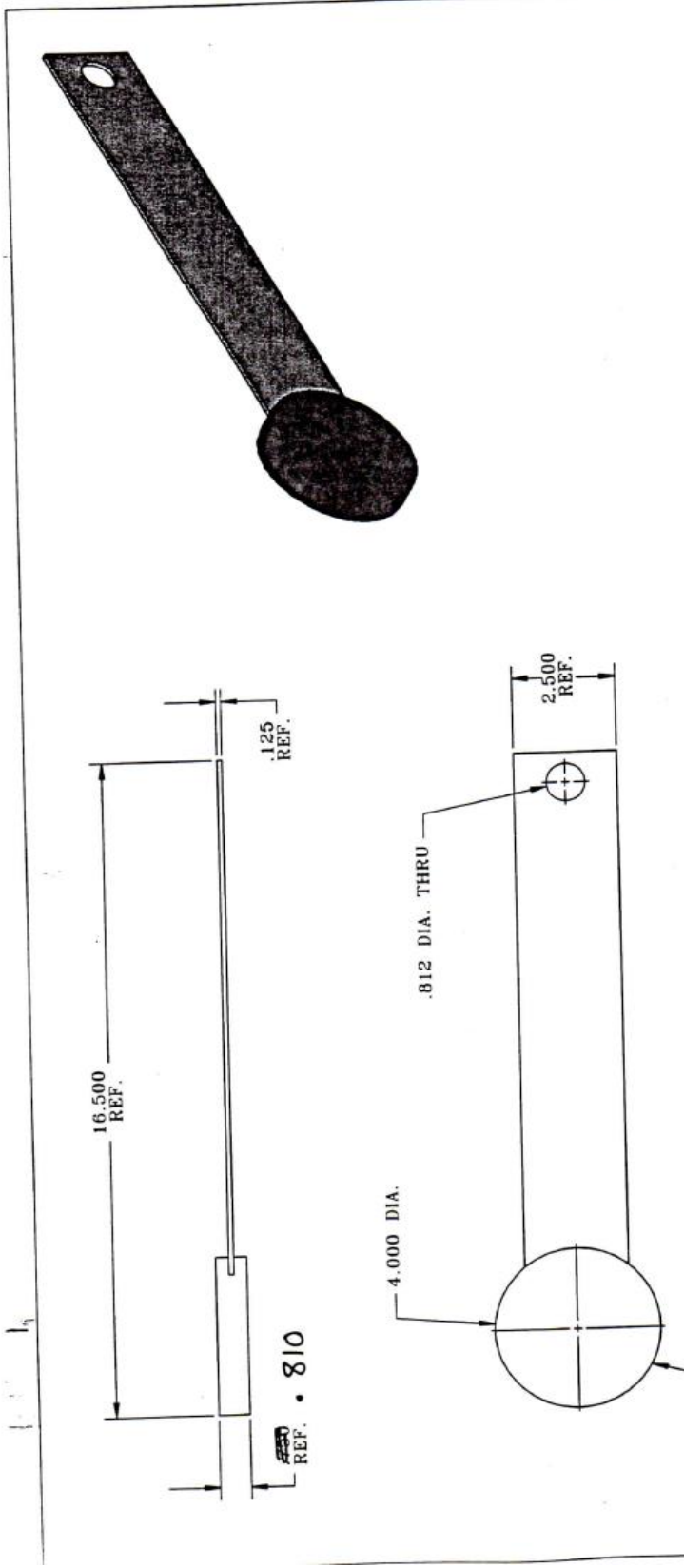
MATERIAL SPECIFICATIONS	
MATERIAL	304 STAINLESS STEEL
FINISH	RAZOR
QUANTITY	2700
REVISIONS	AS SHOWN

1. THIS DRAWING IS FOR INFORMATION ONLY. IT IS NOT TO BE USED FOR MANUFACTURE OF THIS PART.
2. THIS DRAWING IS NOT TO BE USED FOR MANUFACTURE OF THIS PART.
3. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
4. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTERLINE UNLESS OTHERWISE SPECIFIED.
5. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTERLINE UNLESS OTHERWISE SPECIFIED.

C & D Enterprises, Inc.	
CD-136-B	CD-136-B
1/4" Spacing on CD-136 Snap Retainer	1/4" Spacing on CD-136 Snap Retainer
Straight Slot Damage	Straight Slot Damage
REV. 1	REV. 2
DATE	DATE
9-21-05	9-21-05
CD-136-B	CD-136-B
REV. 1	REV. 2



TITLE: CD-137
 1ST SPACING
 GLASS SEPARATOR DONNAGE
 MANUFACTURING
 PART NUMBER: CD-137
 DATE: 9-21-06
 DRAWN BY: JXX
 CHECKED BY: JXX
 C & D Enterprises, Inc.
 CD-137



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 AUBURN HILLS, MI
 48326-2664
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 FAX (248) 373-3470

ISO 9001:2000 Registered

MATERIALS: PVC & URETHANE

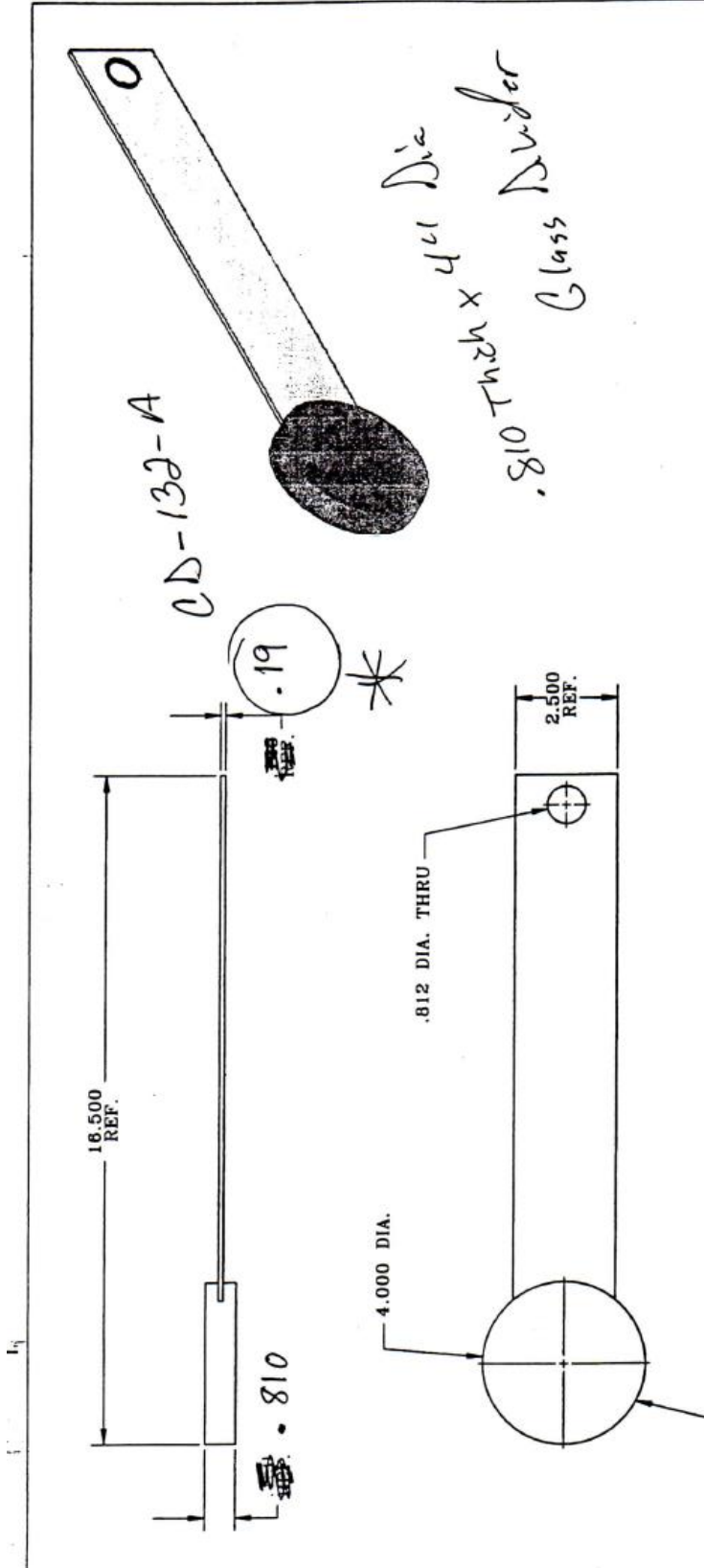
TITLE:
GLASS SEPARATOR
.810" SPACING

C&D# **CD-140**
 DATE: 7/23/04
 REV.
 DATE: 3/02/05

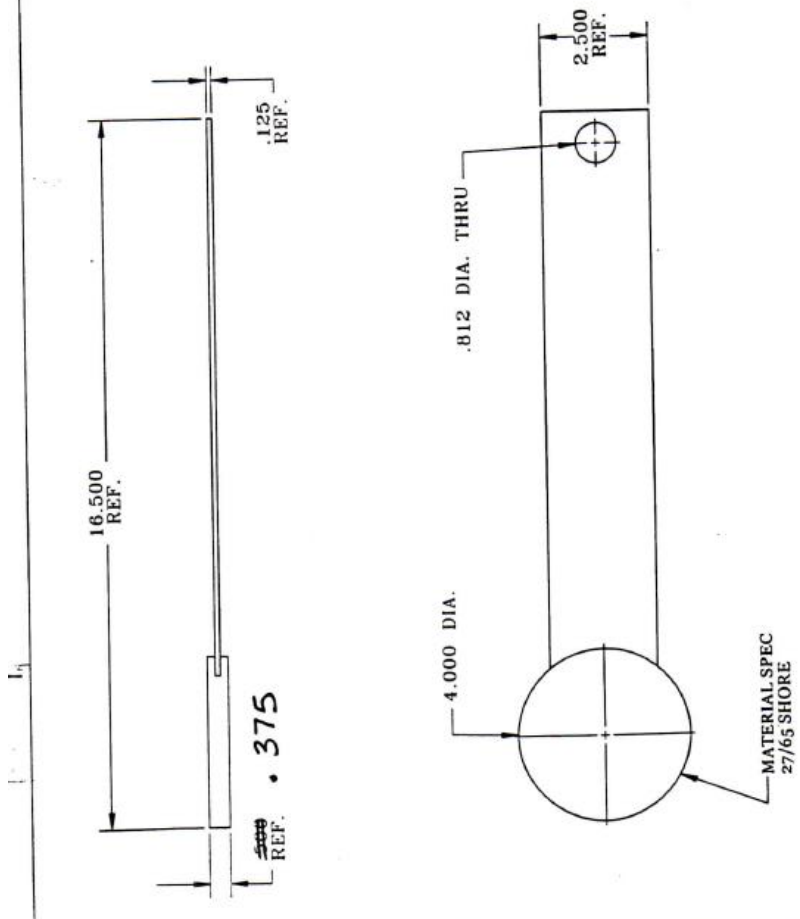
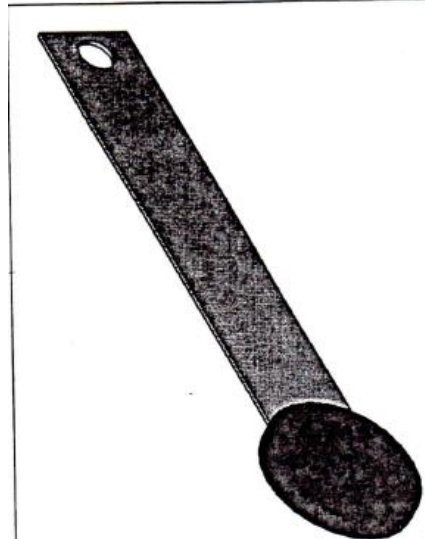
THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING
 MANUFACTURING
 TOLERANCES:
 UNLESS OTHERWISE SPECIFIED
 ANGULAR = ± .5
 .XX = ± .06
 .XXX = ± .031

CD-140



	1929 NORTH OPDYKE AUBURN HILLS, MI 48326-2664 PHONE (248) 373-0011 FAX (248) 373-3470
	ISO 9001:2000 Registered
MATERIALS: PVC & URETHANE	TITLE:
GLASS SEPARATOR SPACING .810	DATE: 7/23/04 REV: DATE: 3/02/05
C&D# 	C&D-140-A
THIRD ANGLE PROJECTION DO NOT SCALE DRAWING MANUFACTURING TOLERANCES: UNLESS OTHERWISE SPECIFIED ANGULAR = ± .5 XX = ± .06 XXX = ± .031	



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MATERIALS: PVC & URETHANE

TITLE:

GLASS SEPARATOR

3/8" SPACING

C&D/J

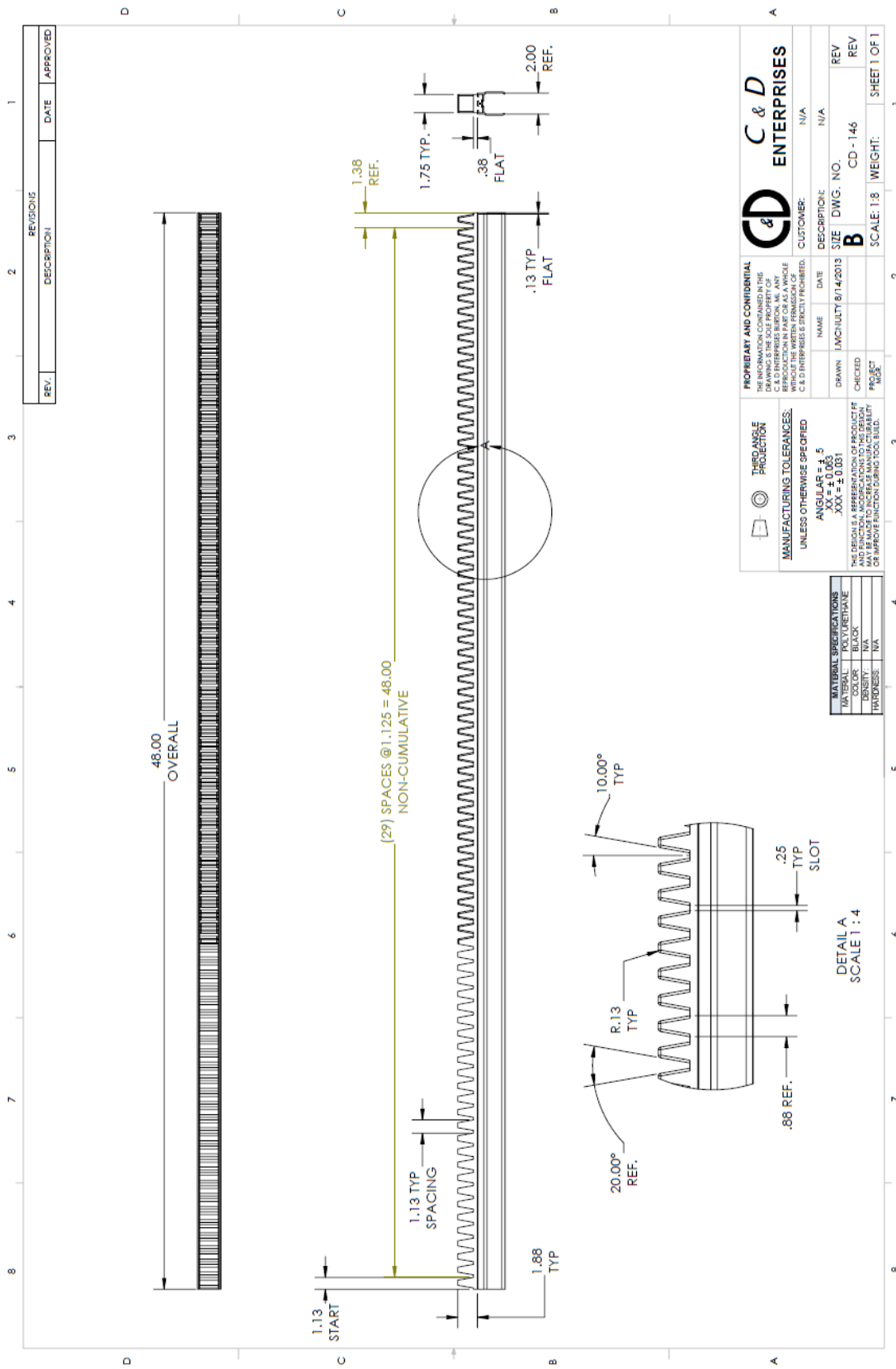
DATE: 7/23/04

REV. DATE: 3/02/05

THIRD ANGLE PROJECTION
 DO NOT SCALE DRAWING
 MANUFACTURING TOLERANCES:
 UNLESS OTHERWISE SPECIFIED
 ANGULAR = ± .5
 XX = ± .06
 .XXX = ± .031

CD-141

REV.	DESCRIPTION	DATE	APPROVED



PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF C & D ENTERPRISES, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF C & D ENTERPRISES IS STRICTLY PROHIBITED.

THIRD ANGLE PROJECTION
MANUFACTURING TOLERANCES:
 UNLESS OTHERWISE SPECIFIED:
 ANGULAR = ± .5
 XXX = ± 0.001

MATERIAL SPECIFICATIONS

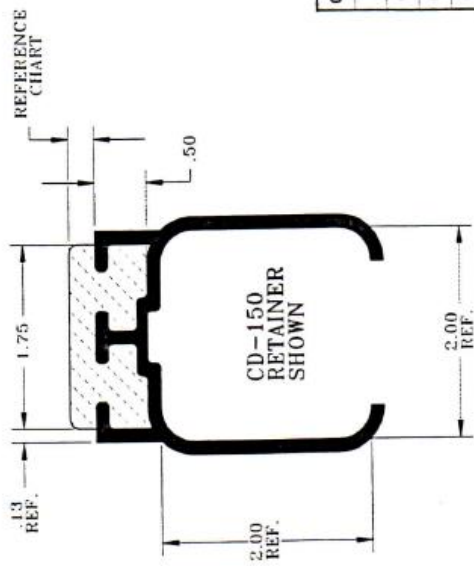
MATERIAL:	POLYURETHANE
COLOR:	BLACK
FINISH:	BLACK
HARDNESS:	NA

C & D ENTERPRISES

NAME: N/A
 DATE: N/A
 DRAWN: LMCJULY 8/14/2013
 CHECKED: B
 PROJECT: CD - 146
 DESCRIPTION: N/A
 SIZE: DWG. NO. CD - 146
 SCALE: 1:8
 WEIGHT: SHEET 1 OF 1

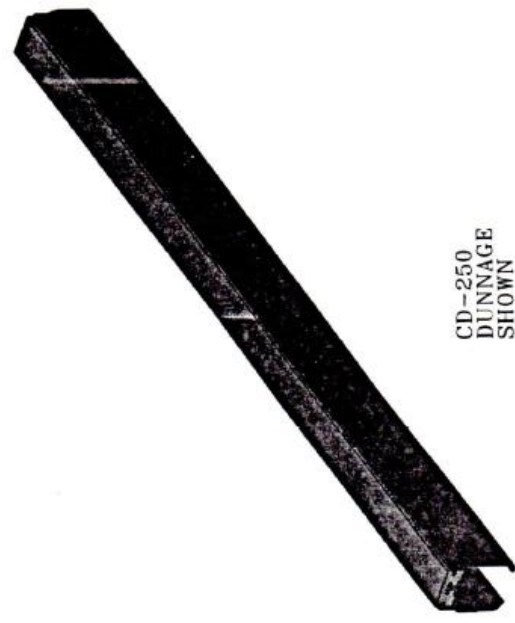
DETAIL A
 SCALE 1 : 4

UNCONTROLLED WHEN PRINTED OR IN PDF FORM



REFERENCE
CHART

CD-250
DUNNAGE
SHOWN



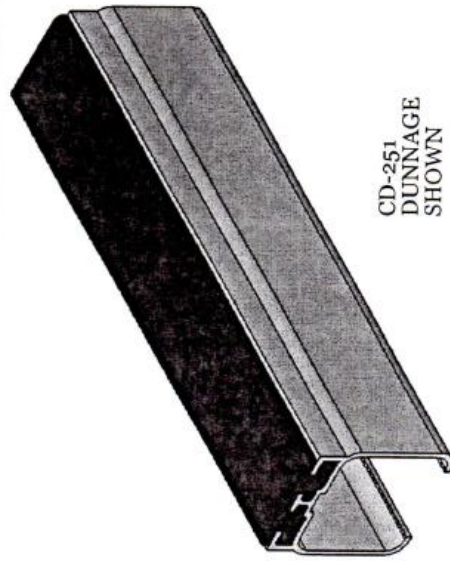
C & D No.	URETHANE THICKNESS
CD-250	1/4" TOP
CD-250-A	1/2" TOP
CD-250-B	3/4" TOP
CD-250-C	1" TOP
CD-250-D	1 1/4" TOP
CD-250-E	1 1/2" TOP
CD-250-F	2" Top
CD-250-G	3" Top

C & D Enterprises, Inc.

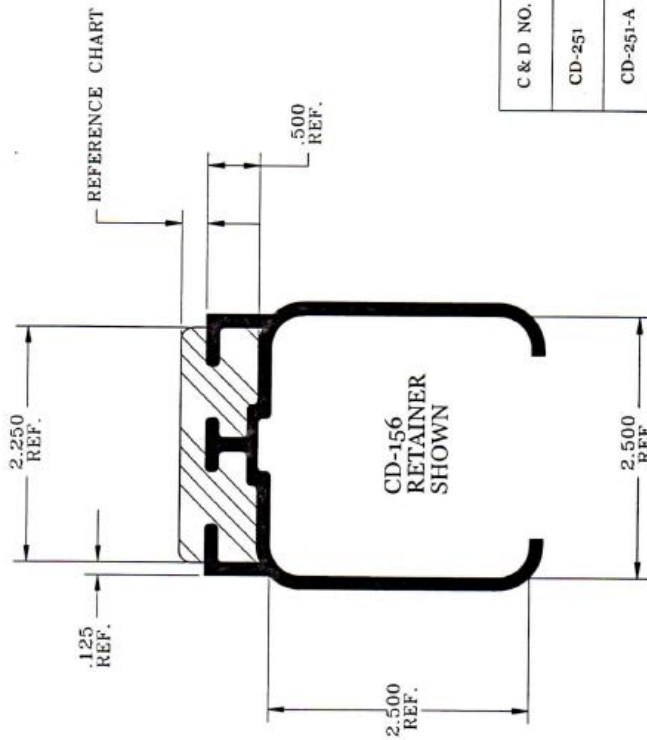
CD-250
FLAT TOP DUNNAGE
TABULATION CHART

DATE	9-20-00
DRAWN BY	9-20-00
CHECKED BY	9-20-00
SCALE	1" = 1"

CD-250



CD-251
DUNNAGE
SHOWN



REFERENCE CHART

C & D NO.	URETHANE THICKNESS
CD-251	1/4" TOP
CD-251-A	1/2" TOP
CD-251-B	3/4" TOP
CD-251-C	1" TOP

NOTE:

THE "SNAP ON DUNNAGE"™ RETAINER SYSTEM IS A PATENT PENDING, PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS, INCLUDING BUT NOT LIMITED TO URETHANE, INJECTION MOLDED OR FABRICATED MATERIALS.



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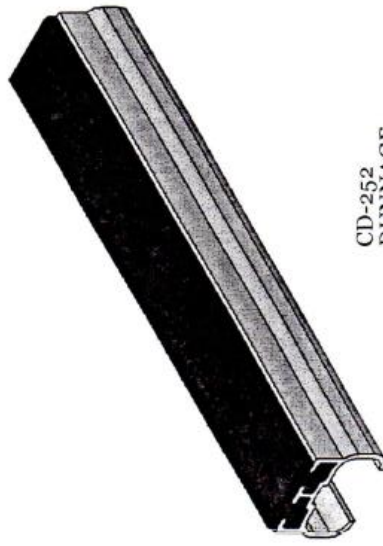
MATERIALS: PVC & URETHANE

TITLE:

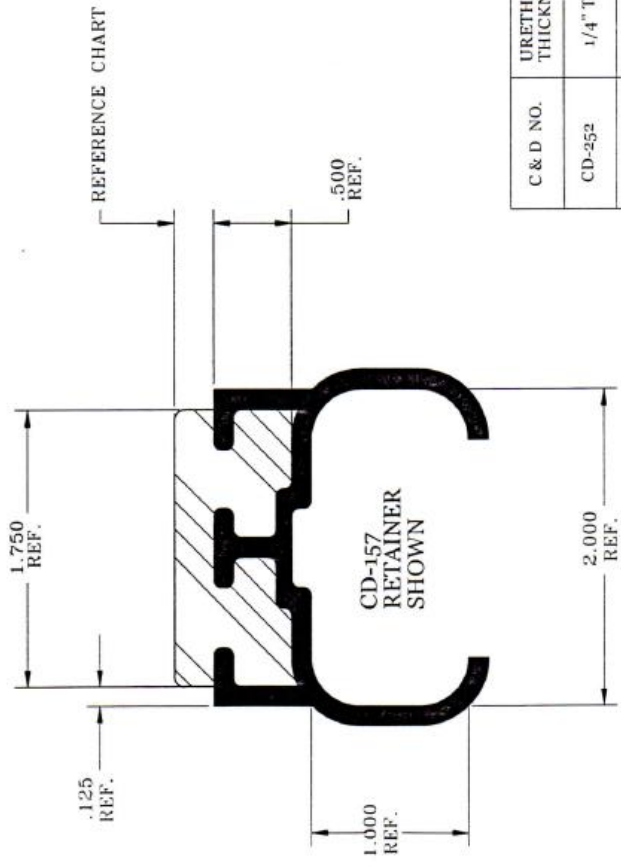
SNAP ON DUNNAGE™
FLAT PAD FOR 2.50 SQ. TUBE

C&D#	DATE:
CD-251 SERIES	7/23/04
A, B & C	REV.
	DATE:
	9/01/05

DO NOT SCALE DRAWING
THIRD ANGLE PROJECTION
MANUFACTURING
TOLERANCES:
UNLESS OTHERWISE SPECIFIED
ANGULAR = ± .5
XX = ± .06
XXX = ± .031



CD-252
DUNNAGE
SHOWN



CD-157
RETAINER
SHOWN

C & D NO.	URETHANE THICKNESS
CD-252	1/4" TOP
CD-252-A	1/2" TOP
CD-252-B	3/4" TOP
CD-252-C	1" TOP

DO NOT SCALE DRAWING
THIRD ANGLE PROJECTION
MANUFACTURING TOLERANCES UNLESS OTHERWISE SPECIFIED
ANGULAR = ± .5
XX = ± .06
XXX = ± .031

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48326-2664
PHONE (248) 373-0011
FAX (248) 373-3470

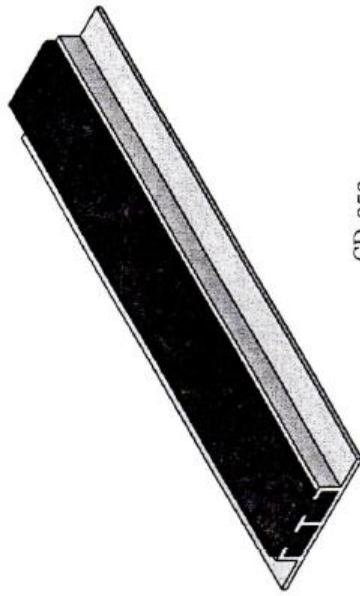
ISO 9001:2000 Registered

MATERIALS: PVC & URETHANE

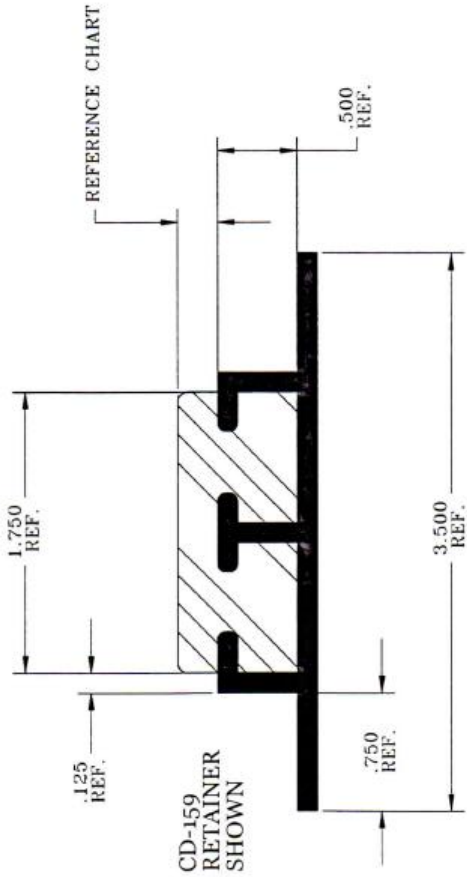
TITLE: SNAP ON DUNNAGE™
FLAT PAD FOR 2.00 x 1.00 TUBE

C&D# CD-252 SERIES A, B & C DATE: 7/23/04 REV. DATE: 9/01/05

NOTE:
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CD-253
DUNNAGE
SHOWN



C & D NO.	URETHANE THICKNESS
CD-253	1/4" TOP
CD-253-A	1/2" TOP
CD-253-B	3/4" TOP
CD-253-C	1" TOP

NOTE:

THE "SNAP ON DUNNAGE"™ RETAINER SYSTEM IS A PATENT PENDING, PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS, INCLUDING BUT NOT LIMITED TO URETHANE, INJECTION MOLDED OR FABRICATED MATERIALS.



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MATERIALS: PVC & URETHANE

TITLE:
SNAP ON DUNNAGE™
FLAT PAD PROFILE

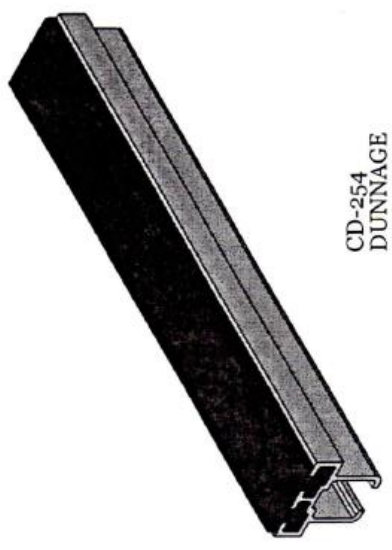
C&D# CD-253 SERIES A, B & C

DATE: 7/23/04
REV. DATE: 9/01/05

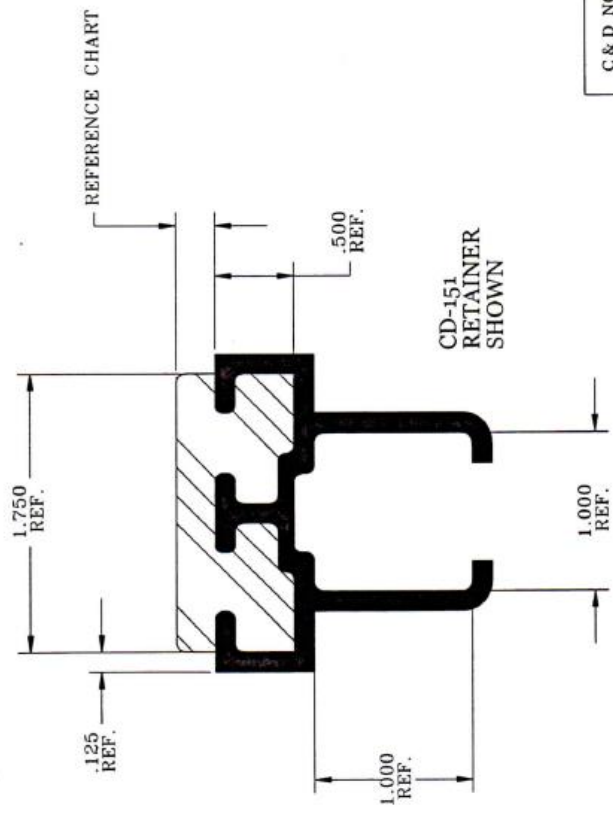
DO NOT SCALE DRAWING

MANUFACTURING TOLERANCES:
(UNLESS OTHERWISE SPECIFIED)

ANGULAR = +.5
XX = ± .06
XXX = ± .031




CD-254
DUNNAGE
SHOWN



CD-151
RETAINER
SHOWN

REFERENCE CHART

C & D NO.	URETHANE THICKNESS
CD-254	1/4" TOP
CD-254-A	1/2" TOP
CD-254-B	3/4" TOP
CD-254-C	1" TOP



CD ENTERPRISES
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ISO 9001:2000 Registered

MATERIALS: PVC & URETHANE

TITLE:
SNAP ON DUNNAGE™
FLAT PAD FOR 1.00 SQ TUBE

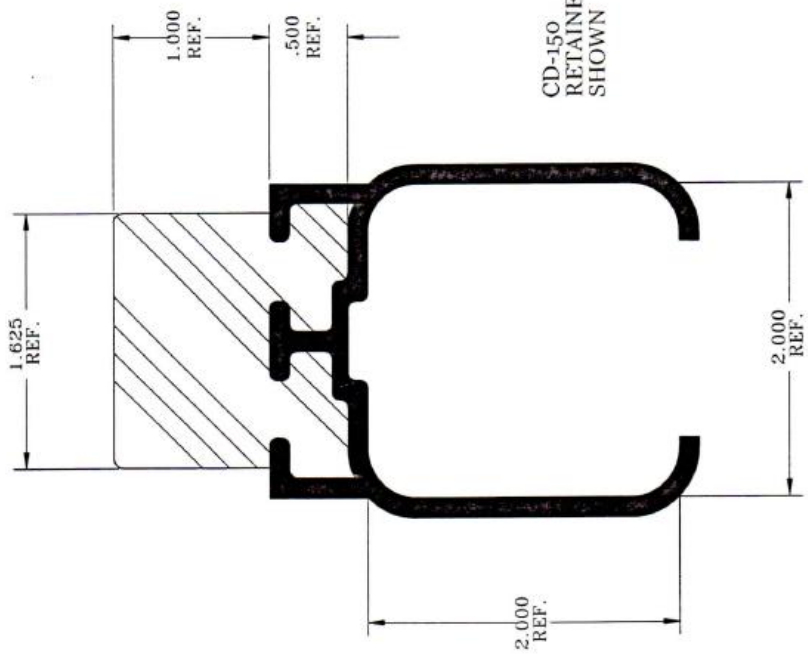
C&D# CD-254 SERIES REV. A, B & C
DATE: 7/23/04

DO NOT SCALE DRAWING

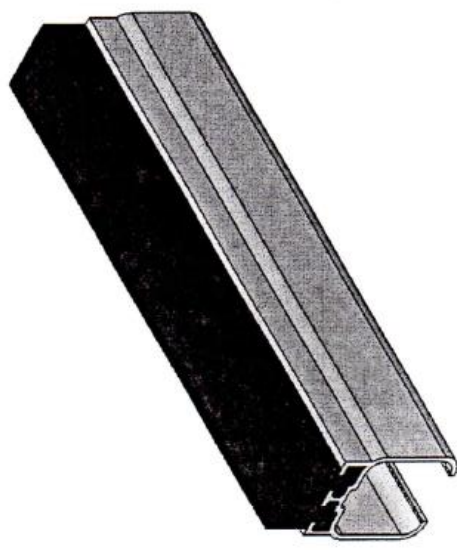
THIRD ANGLE PROJECTION

MANUFACTURING TOLERANCES:
UNLESS OTHERWISE SPECIFIED:
ANGULAR = ± .5
.XX = ± .06
.XXX = ± .031

NOTE:
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CD-150
RETAINER
SHOWN



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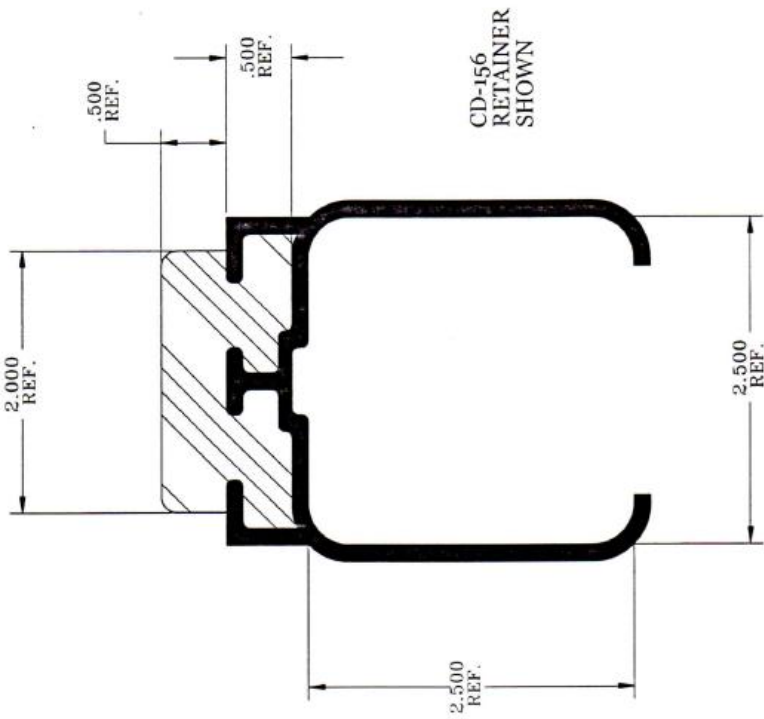
MATERIALS: PVC & URETHANE
TITLE:

SNAP ON DUNNAGE™
1" FLAT

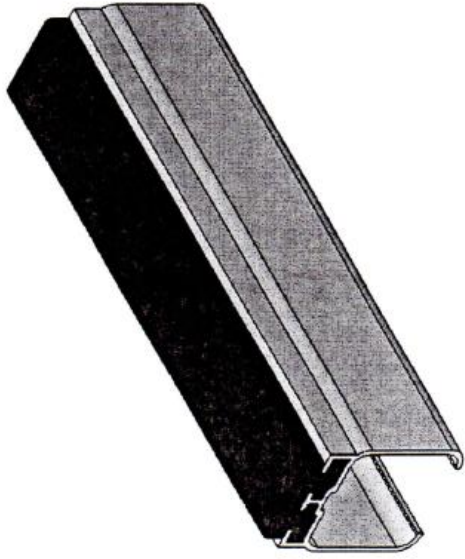
CD# CD-255
DATE: 7/23/04
REV. DATE: 3/02/05

THIRD ANGLE PROJECTION
DO NOT SCALE DRAWING
MANUFACTURING
TOLERANCES:
UNLESS OTHERWISE SPECIFIED
ANGULAR = ± 5
XX = ± .06
XXX = ± .031

NOTE:
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PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS,
INCLUDING BUT NOT LIMITED TO URETHANE, INJECTION MOLDED
OR FABRICATED MATERIALS.



CD-156
RETAINER
SHOWN

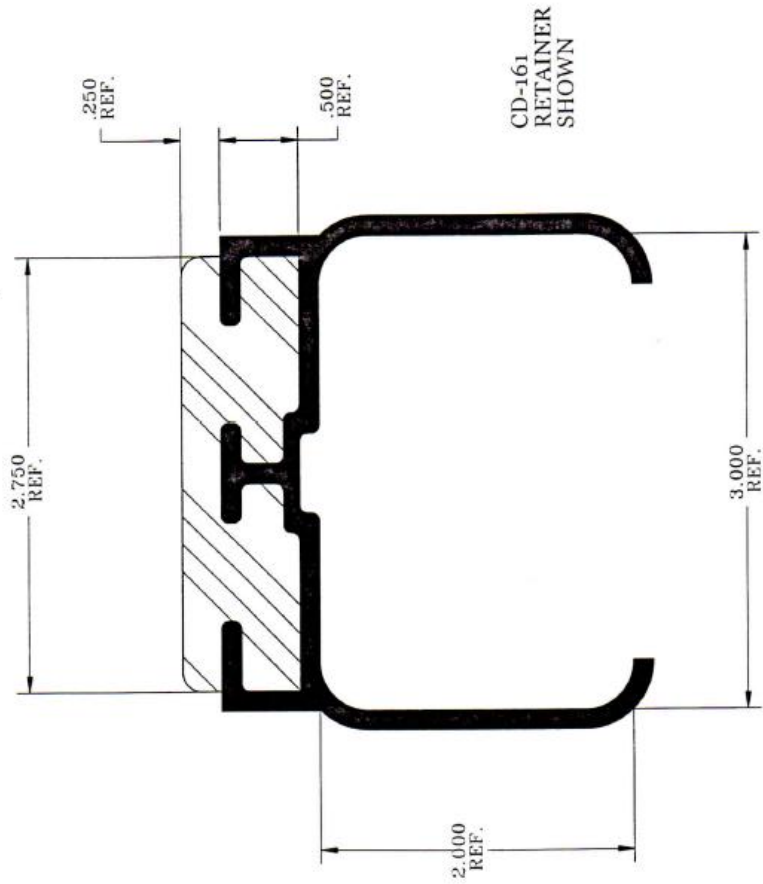
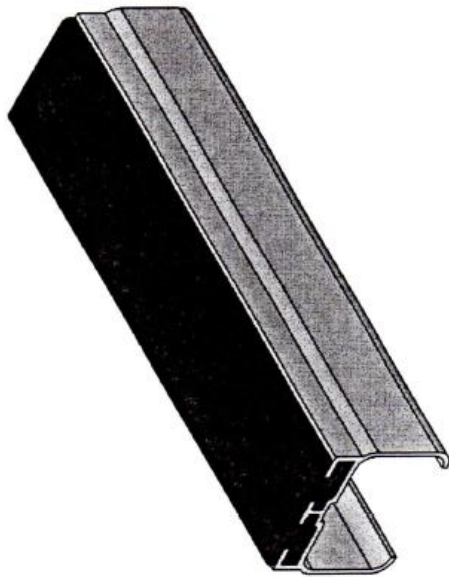


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ISO 9001:2000 Registered

MATERIALS: PVC & URETHANE	
TITLE: SNAP ON DUNNAGE™ 1/2" FLAT	
C&D# CD-256	DATE: 7/23/04 REV. DATE: 3/02/05
DO NOT SCALE DRAWING MANUFACTURING TOLERANCES: UNLESS OTHERWISE SPECIFIED ANGULAR = ± .5 .XX = ± .06 .XXX = ± .031	

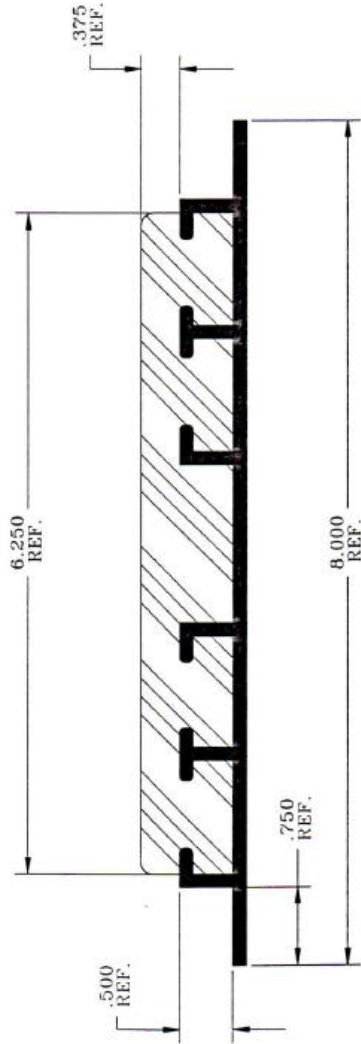
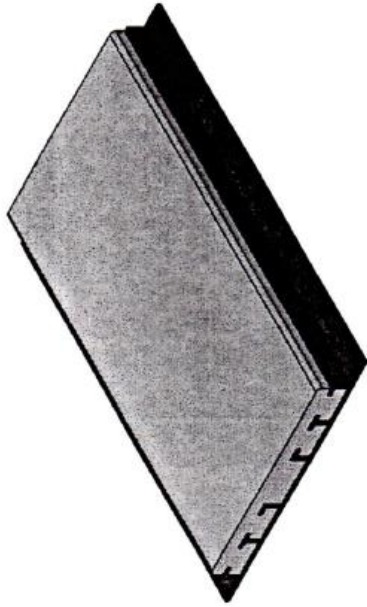
NOTE:
THE "SNAP ON DUNNAGE"™ RETAINER SYSTEM IS A PATENT PENDING,
PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS,
INCLUDING BUT NOT LIMITED TO URETHANE, INJECTION MOLDED
OR FABRICATED MATERIALS.



CD-161
RETAINER
SHOWN

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	ISO 9001:2000 Registered	
MATERIALS: PVC & URETHANE		
TITLE: SNAP ON DUNNAGE™ 1/4" FLAT		
C&D# CD-258	DATE: 7/27/05 REV. DATE: N/A	TOLERANCES: UNLESS OTHERWISE SPECIFIED ANGULAR = ± .5 XX = ± .05 XXX = ± .031

NOTE:
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 PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS,
 INCLUDING BUT NOT LIMITED TO URETHANE, INJECTION MOLDED
 OR FABRICATED MATERIALS.



NOTE:

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MATERIALS: PVC & URETHANE

TITLE:

SNAP ON DUNNAGE™
3/8" FLAT PAD

C&D#

CD-259

DATE: 7/23/04

REV: 9/12/05



THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

MANUFACTURING

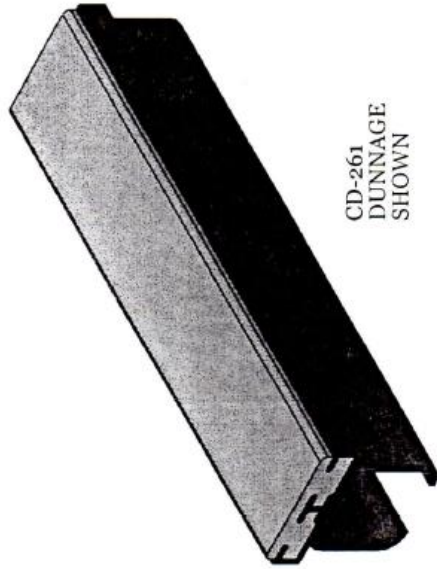
TOLERANCES:

UNLESS OTHERWISE SPECIFIED

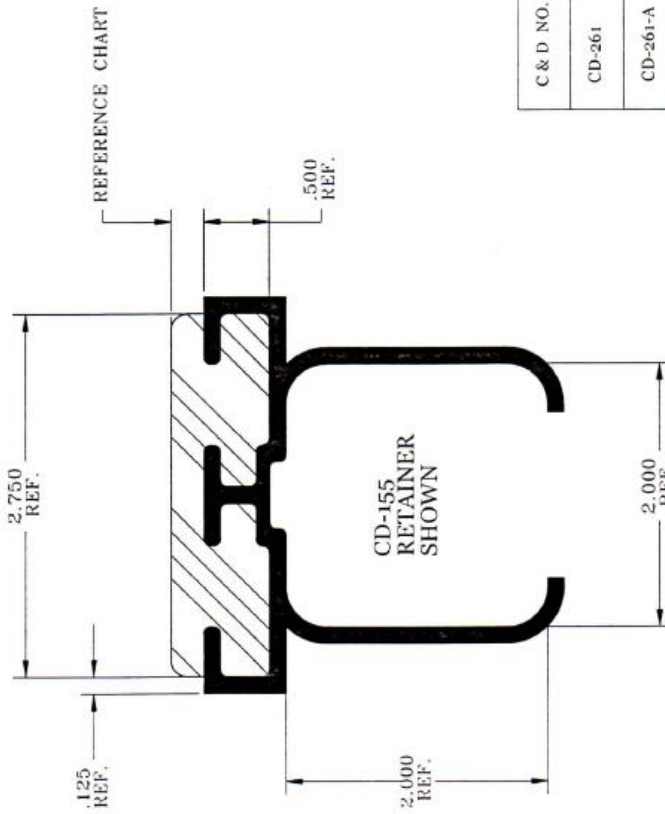
ANGULAR = ± .5

XX = ± .06

XXX = ± .031

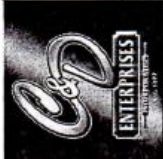


CD-261
DUNNAGE
SHOWN



CD-155
RETAINER
SHOWN

C & D NO.	URETHANE THICKNESS
CD-261	1/4" TOP
CD-261-A	1/2" TOP
CD-261-B	3/4" TOP
CD-261-C	1" TOP



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FAX (248) 373-3470

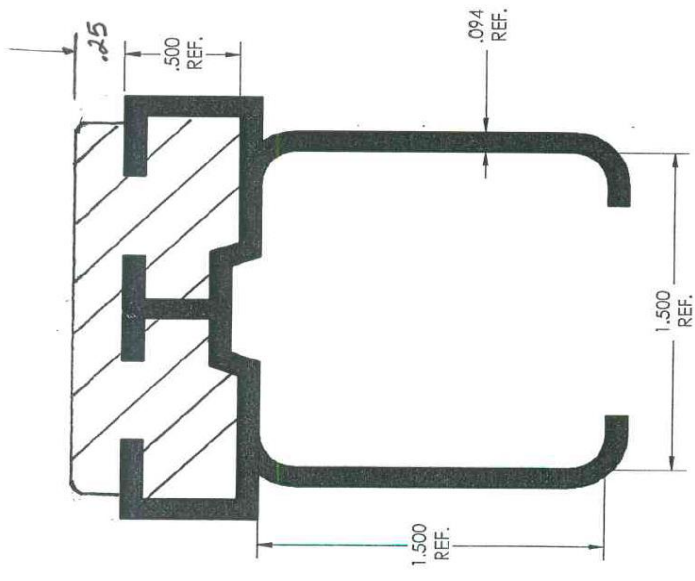
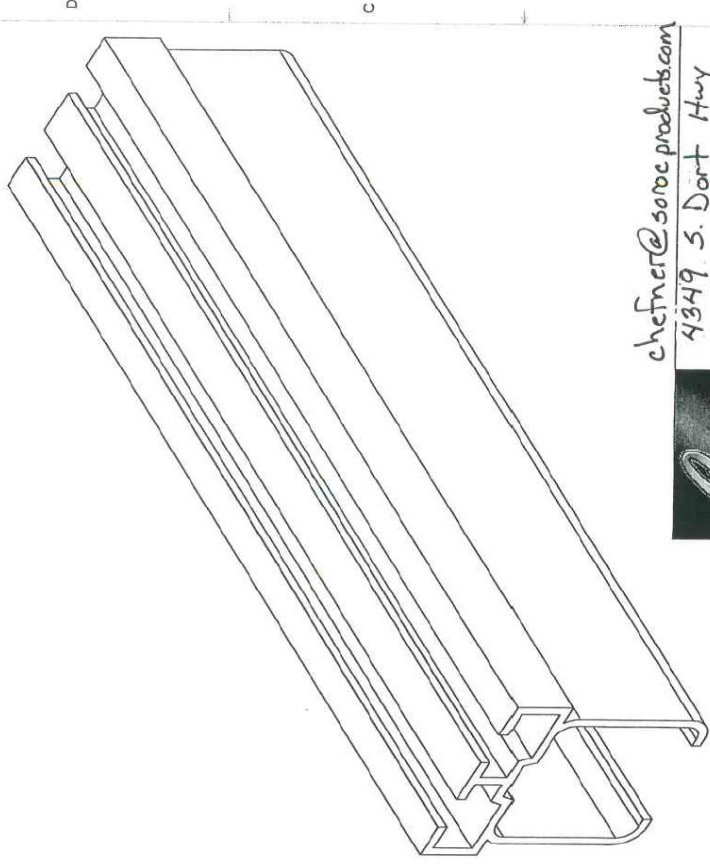
ISO 9001:2000 Registered

MATERIALS: PVC & URETHANE
TITLE:
SNAP ON DUNNAGE™
FLAT PAD FOR 2.00 SQ TUBE
C&D# CD-261 SERIES REV. DATE: 7/23/04
A, B & C

THIRD ANGLE PROJECTION
DO NOT SCALE DRAWING
MANUFACTURING TOLERANCES:
UNLESS OTHERWISE SPECIFIED
ANGULAR = ± .5
.XX = ± .06
.XXX = ± .031

NOTE:
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PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS,
INCLUDING BUT NOT LIMITED TO URETHANE, INJECTION MOLDED
OR FABRICATED MATERIALS.

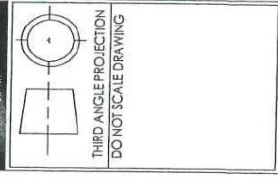
REV.	DESCRIPTION	DATE	APPROVED
1			
2			
3			
4			
5			
6			
7			



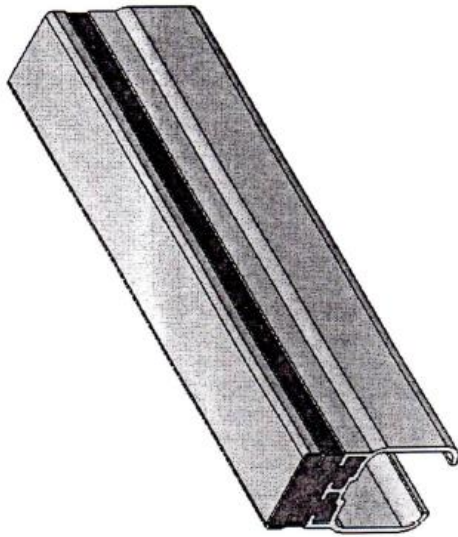
chefnet@sorcproducts.com
 4949 S. Dort Hwy
 Burton, MI. 48529
 810-743-2660



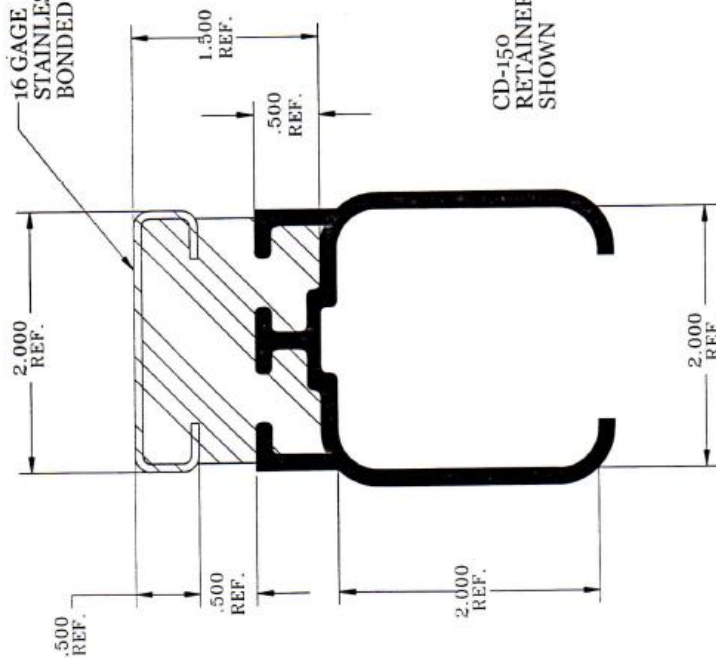
ISO 9001:2000 Registered
 MATERIALS: HIGH IMPACT PVC
 TITLE:
 1/4" Flat Pad For
 1 1/2" Sq. Tube
 C&D#: CD-262
 DATE: 9/20/13
 I.D.I.



NOTE:
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 PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS,
 INCLUDING BUT NOT LIMITED TO URETHANE, INJECTION MOLDED
 OR FABRICATED MATERIALS.



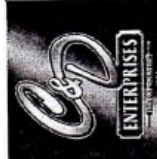
16 GAGE
STAINLESS STEEL
BONDED W/URETHANE



CD-150
RETAINER
SHOWN

NOTE:

THE "SNAP ON DUNNAGE"[™] RETAINER SYSTEM IS A PATENT PENDING, PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS, INCLUDING BUT NOT LIMITED TO URETHANE, INJECTION MOLDED OR FABRICATED MATERIALS.



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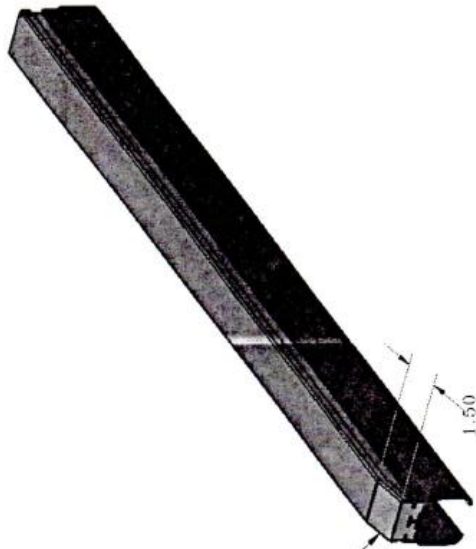
ISO 9001:2000 Registered

MATERIALS: PVC, URETHANE & S.S.
TITLE:

SNAP ON DUNNAGE[™]
2" STAINLESS STEEL TOP

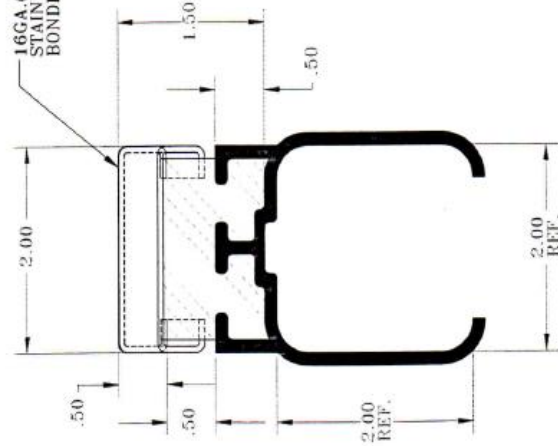
C&D# CD-270
DATE: 7/23/04
REV. DATE: 3/02/05

THIRD ANGLE PROJECTION
DO NOT SCALE DRAWING
MANUFACTURING
TOLERANCES:
UNLESS OTHERWISE SPECIFIED
ANGULAR = ± .5
XX = ± .06
XXX = ± .031



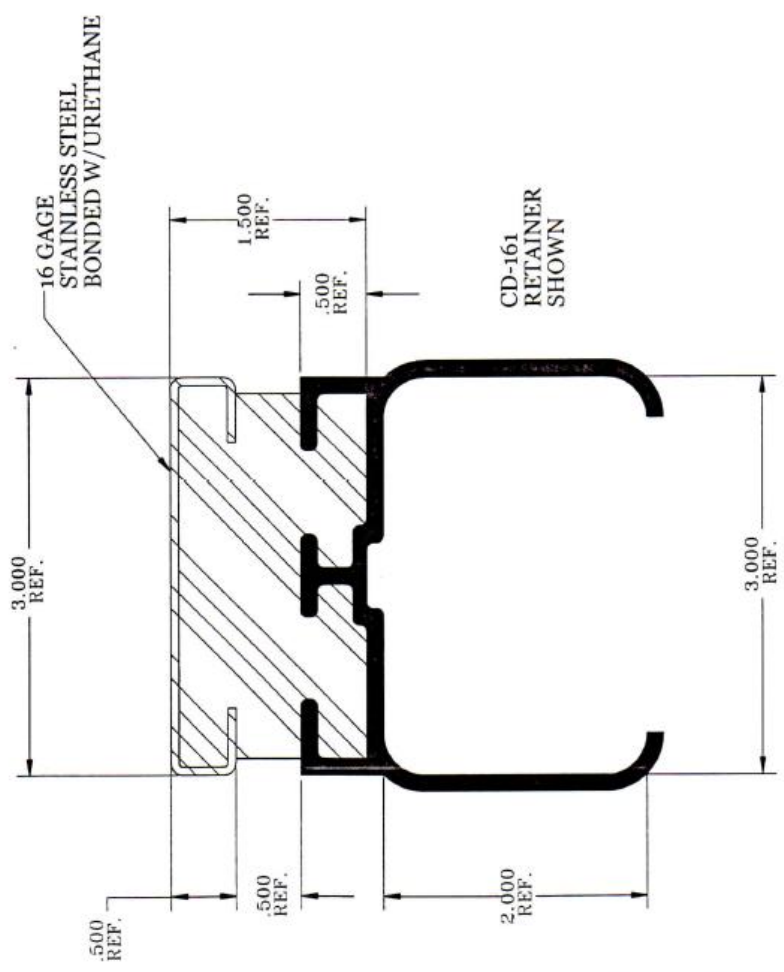
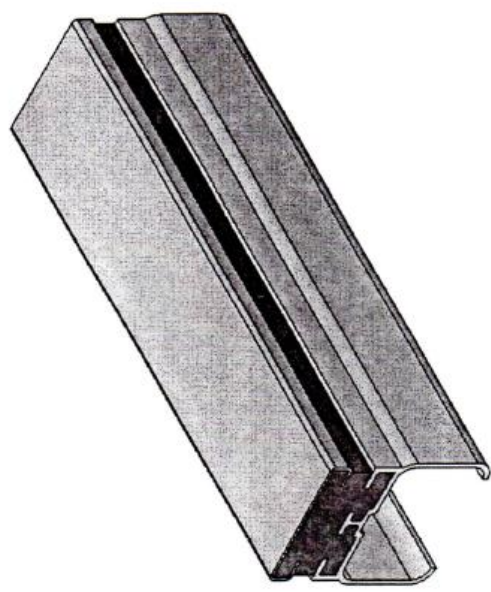
15 DEGREE
TAPER
(1) END ONLY

16GA (.060)
STAINLESS STEEL
BONDED W/URETHANE



CD-150
RETAINER
SHOWN


C & D Enterprises, Inc.
 TITLE: CD-270-T
 SNAP-ON DUNNAGE
 2" STAINLESS STEEL TOP
 MANUFACTURING
 ANGLE: 9-20-06
 DATE: 9-20-06
 DRAWN: REF: 9-20-06
 CD-270-T



CD-161
RETAINER
SHOWN

NOTE:

THE "SNAP ON DUNNAGE"TM RETAINER SYSTEM IS A PATENT PENDING, PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS, INCLUDING BUT NOT LIMITED TO URETHANE, INJECTION MOLDED OR FABRICATED MATERIALS.



1929 NORTH OPDYKE
AUBURN HILLS, MI
48326-2664
PHONE (248) 373-0011
FAX (248) 373-3470

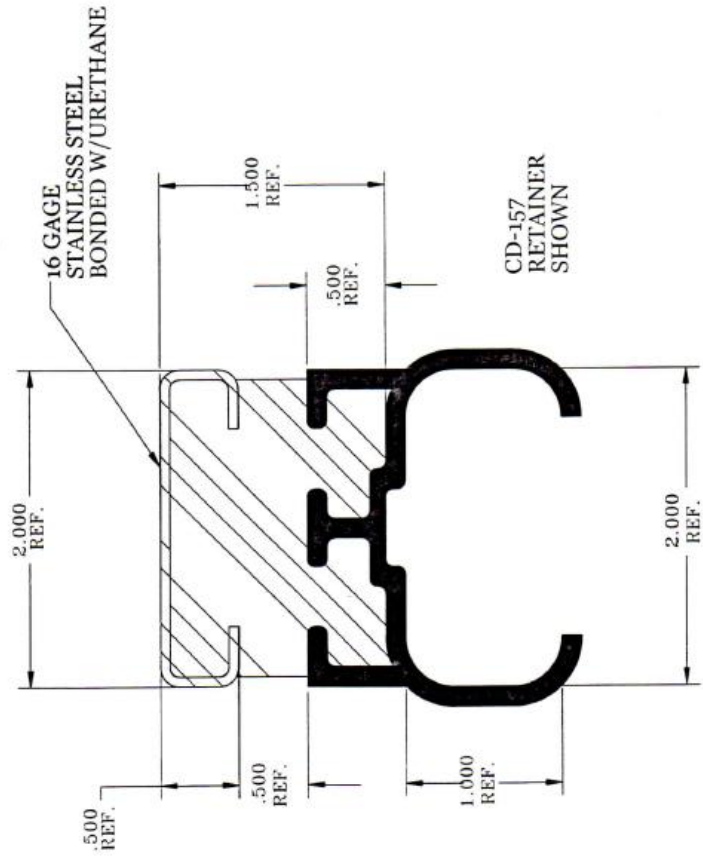
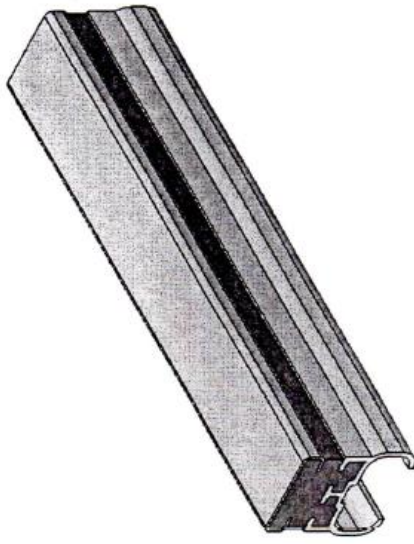
ISO 9001:2000 Registered

MATERIALS: PVC, URETHANE & S.S.
TITLE:

SNAP ON DUNNAGETM
3" STAINLESS STEEL TOP

C&D# CD-271
DATE: 7/23/04
REV. DATE: 3/02/05

THIRD ANGLE PROJECTION
DO NOT SCALE DRAWING
MANUFACTURING TOLERANCES:
UNLESS OTHERWISE SPECIFIED
ANGULAR = ± .5
XX = ± .06
XXX = ± .031



16 GAGE STAINLESS STEEL BONDED W/URETHANE

CD-157 RETAINER SHOWN

NOTE:

THE "SNAP ON DUNNAGE"™ RETAINER SYSTEM IS A PATENT PENDING, PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS, INCLUDING BUT NOT LIMITED TO URETHANE, INJECTION MOLDED OR FABRICATED MATERIALS.



1929 NORTH OPDYKE
AUBURN HILLS, MI
48326-2664
PHONE (248) 373-0011
FAX (248) 373-3470

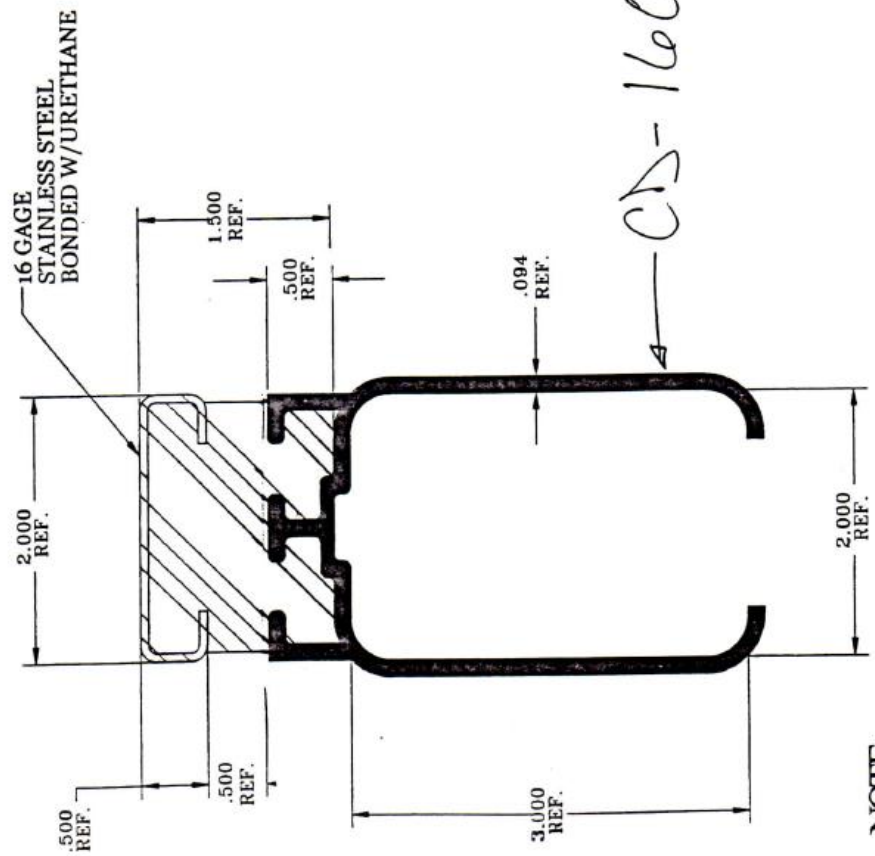
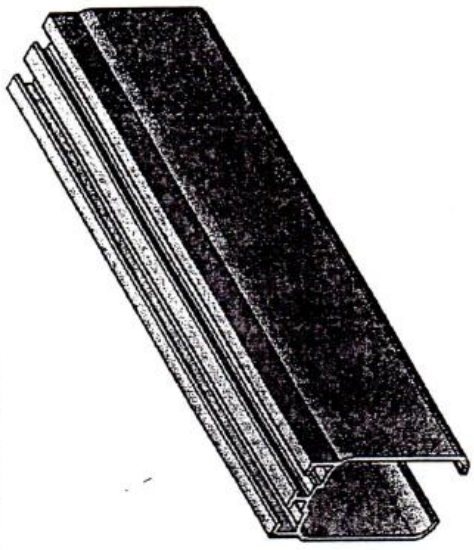
ISO 9001:2000 Registered

MATERIALS: PVC, URETHANE & S.S.
TITLE:

SNAP ON DUNNAGE™
2" STAINLESS STEEL TOP

C.&D.# CD-272
DATE: 7/23/04
REV. DATE: 3/02/05

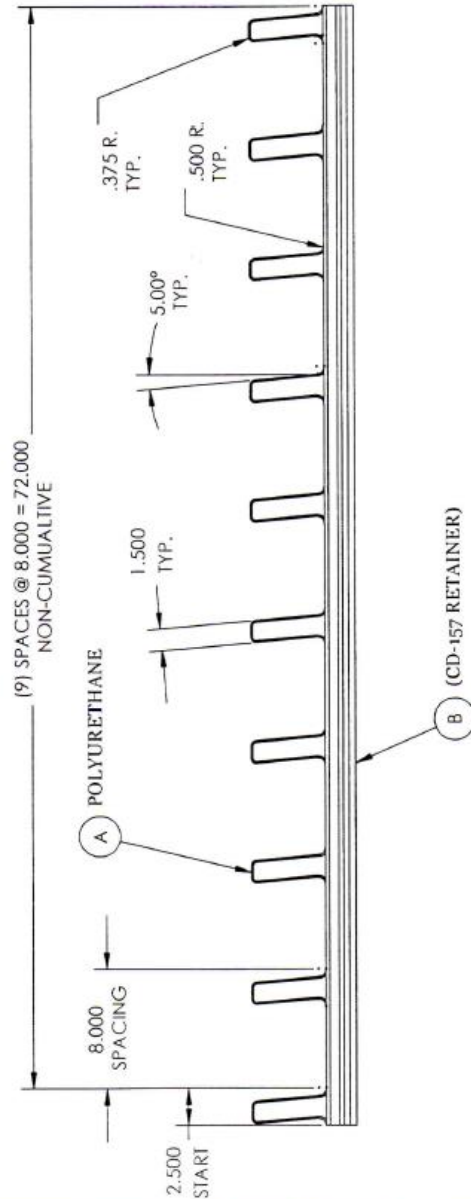
THIRD ANGLE PROJECTION
DO NOT SCALE DRAWING
MANUFACTURING TOLERANCES:
UNLESS OTHERWISE SPECIFIED
ANGULAR = ± .5
XX = ± .06
XXX = ± .031



NOTE:

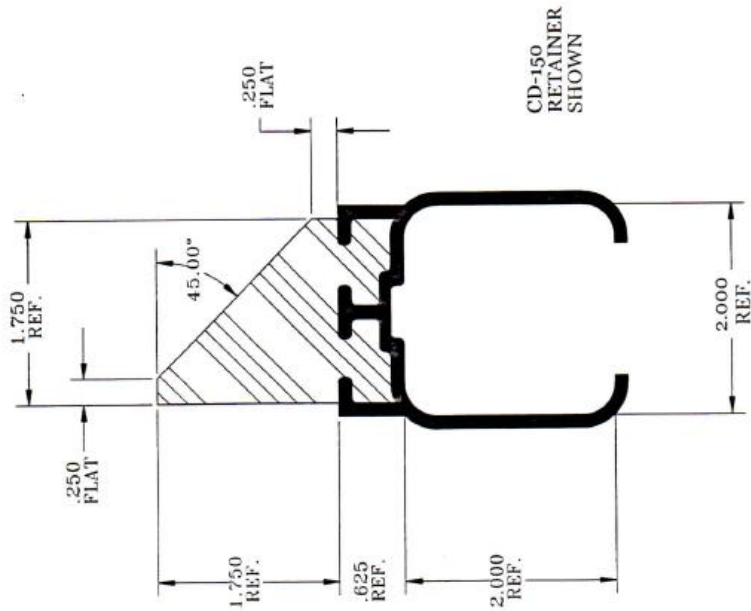
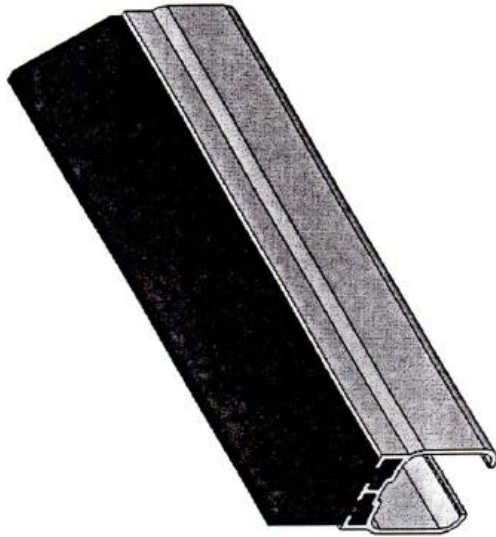
THE "SNAP ON DUNNAGE"TM RETAINER SYSTEM IS A PATENT PENDING, PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS, INCLUDING BUT NOT LIMITED TO URETHANE, INJECTION MOLDED OR FABRICATED MATERIALS.

	1929 NORTH OPDYKE AUBURN HILLS, MI 48326-2664 PHONE (248) 373-0011 FAX (248) 373-3470	
	ISO 9001:2000 Registered	
	MATERIALS: PVC, URETHANE & S.S.	
DO NOT SCALE DRAWING MANUFACTURING TOLERANCES: UNLESS OTHERWISE SPECIFIED .XX = ± .06 .XXX = ± .031	TITLE: SNAP ON DUNNAGETM 2" STAINLESS STEEL TOP	
C&D # CD-276	DATE: 7/23/04	REV. DATE: 3/02/05



MATERIAL SPECIFICATIONS	
MATERIAL:	POLYURETHANE
COLOR:	BLACK
FINISH:	W.P.V.
REFERENCE:	W.P.V.
1. ALL DIMENSIONS SHALL BE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED. 2. DIMENSIONS SHALL BE TO UNLESS OTHERWISE SPECIFIED. 3. DIMENSIONS SHALL BE TO UNLESS OTHERWISE SPECIFIED. 4. DIMENSIONS SHALL BE TO UNLESS OTHERWISE SPECIFIED. 5. ALL PARTS TO BE PREPARED BY THE MANUFACTURER. 6. ALL PARTS TO BE PREPARED BY THE MANUFACTURER. 7. ALL PARTS TO BE PREPARED BY THE MANUFACTURER.	

		C & D Enterprises, Inc. CD-311 8" Spacing Separator Drainage	
DATE:	7-24-05	SCALE:	CD-311
REV:	1	REV:	2
REV:	2	REV:	3



CD-150
RETAINER
SHOWN



1929 NORTH OPDYKE
AUBURN HILLS, MI
48326-2664
PHONE (248) 373-0011
FAX (248) 373-3470

ISO 9001:2000 Registered

THIRD ANGLE PROJECTION
NO NOT SCALE DRAWING
MANUFACTURING
TOLERANCES:
UNLESS OTHERWISE SPECIFIED
ANGULAR = ± .5
XX = ± .06
XXX = ± .031

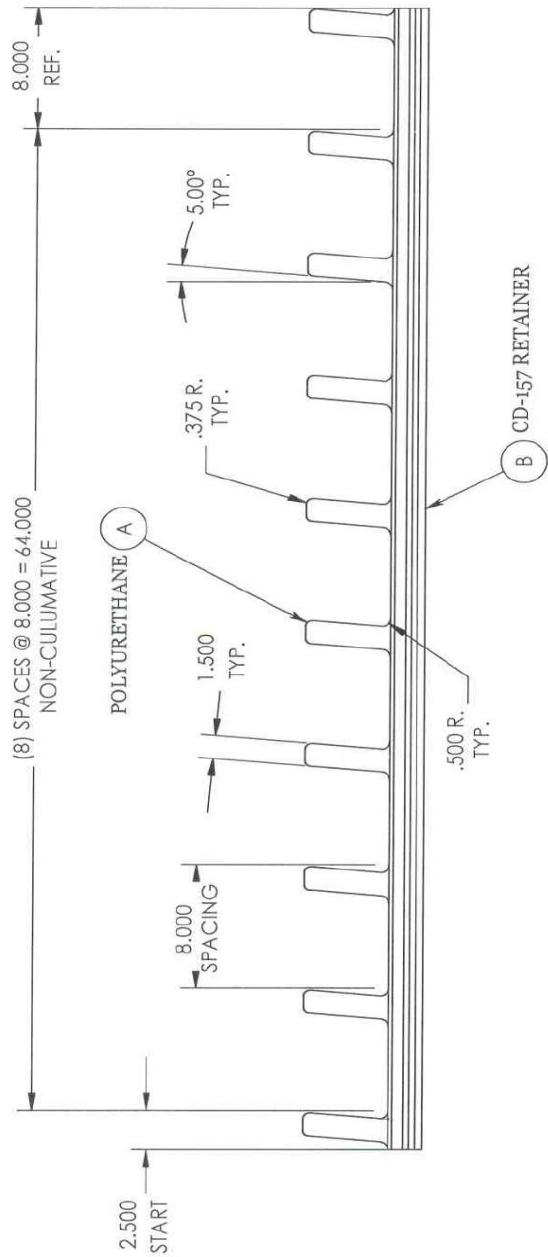
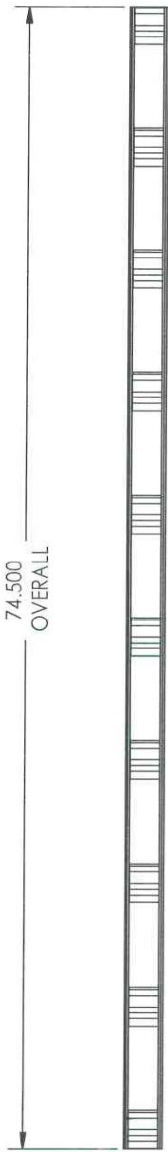
MATERIALS: PVC & URETHANE
TITLE:

SNAP ON DUNNAGE™
45° BEVEL DUNNAGE

C&D# CD-350
DATE: 7/23/04
REV. DATE: 8/24/05

NOTE:

THE "SNAP ON DUNNAGE"™ RETAINER SYSTEM IS A PATENT PENDING,
PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS,
INCLUDING BUT NOT LIMITED TO URETHANE, INJECTION MOLDED
OR FABRICATED MATERIALS.



MATERIAL SPECIFICATIONS	
MATERIAL:	POLYURETHANE
COLOR:	BLACK
DENSITY:	270P
FINISHES:	# 003
1. ALL DIMENSIONS ARE UNLESS OTHERWISE SPECIFIED. 2. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED. 3. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED. 4. ALL PARTS TO BE PERMANENTLY ATTACHED TO PRODUCT. ACTUAL DIMENSIONS TO BE DETERMINED BY THE BUYER. 5. ALL PARTS TO BE PERMANENTLY ATTACHED TO PRODUCT. ACTUAL DIMENSIONS TO BE DETERMINED BY THE BUYER.	

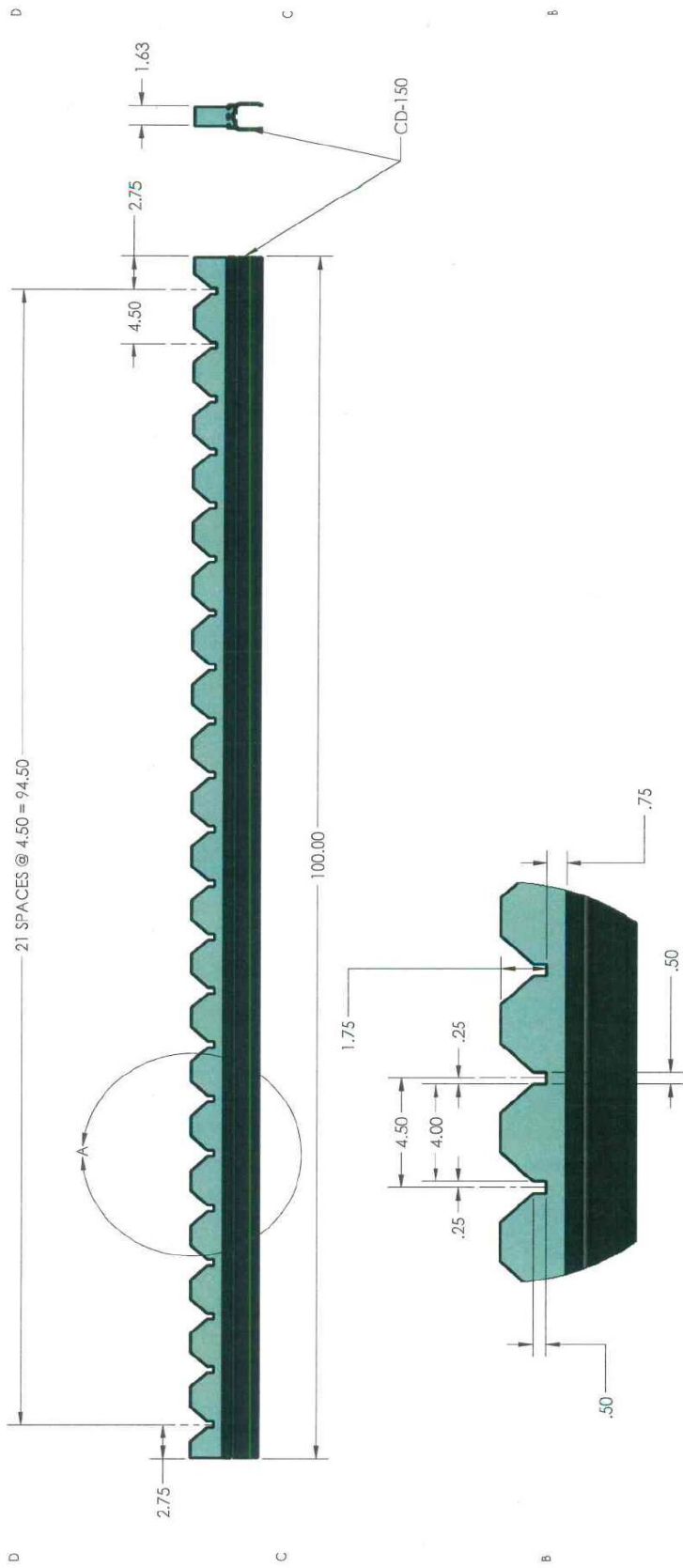
DRG. INT. REV. DATE	1/8/23/05
DRG. NO.	CD-400
DRG. REV.	2
DRG. DATE	8-23-05
DRG. NAME	CD-400
DRG. CODE	CD-400
DRG. SHEET	2
DRG. TOTAL	2

C & D Enterprises, Inc.

CD-400
8.00 Spacing
Separator Dimming

DRG. NO. CD-400
DRG. REV. 2
DRG. DATE 8-23-05
DRG. NAME CD-400
DRG. CODE CD-400
DRG. SHEET 2
DRG. TOTAL 2

REV.	DESCRIPTION	DATE	APPROVED



DETAIL A
SCALE 1 : 4

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THIRD-ANGLE PROJECTION

MANUFACTURING TOLERANCES:
UNLESS OTHERWISE SPECIFIED:
ANGULAR = ± .5
XX = ± 0.063
XXX = ± 0.031

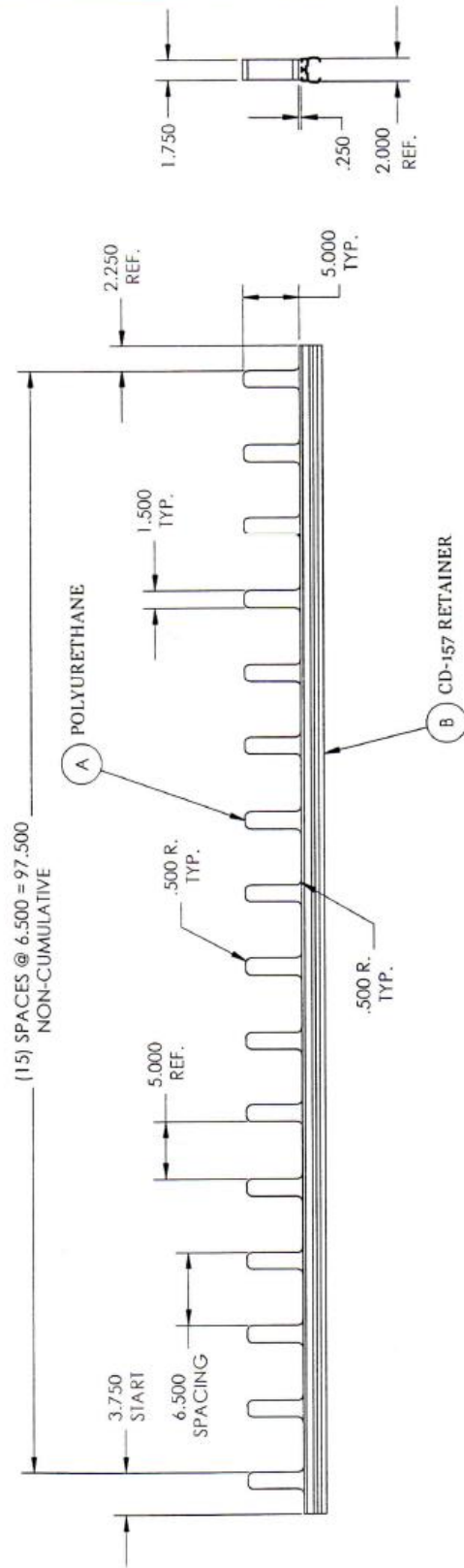
THE DESIGN IS A REPRESENTATION OF PRODUCT IT IS NOT A CONTRACT. THE DESIGN AND RELATED INFORMATION IS THE PROPERTY OF C & D ENTERPRISES. NO WARRANTY IS MADE OR IMPLIED FOR ANY FUNCTION DURING TOOL BUILD.

NAME: M. DECKER
DATE: 1/16/2014
DESCRIPTION: CD-401
SIZE: DWG. NO. CD-401
REV: B
SCALE: 1:12 WEIGHT: SHEET 1 OF 1

MATERIAL SPECIFICATIONS	
MATERIAL:	POLYURETHANE
COLOR:	BLACK
DENSITY:	27 PCF
HARDNESS:	65 SHORE A

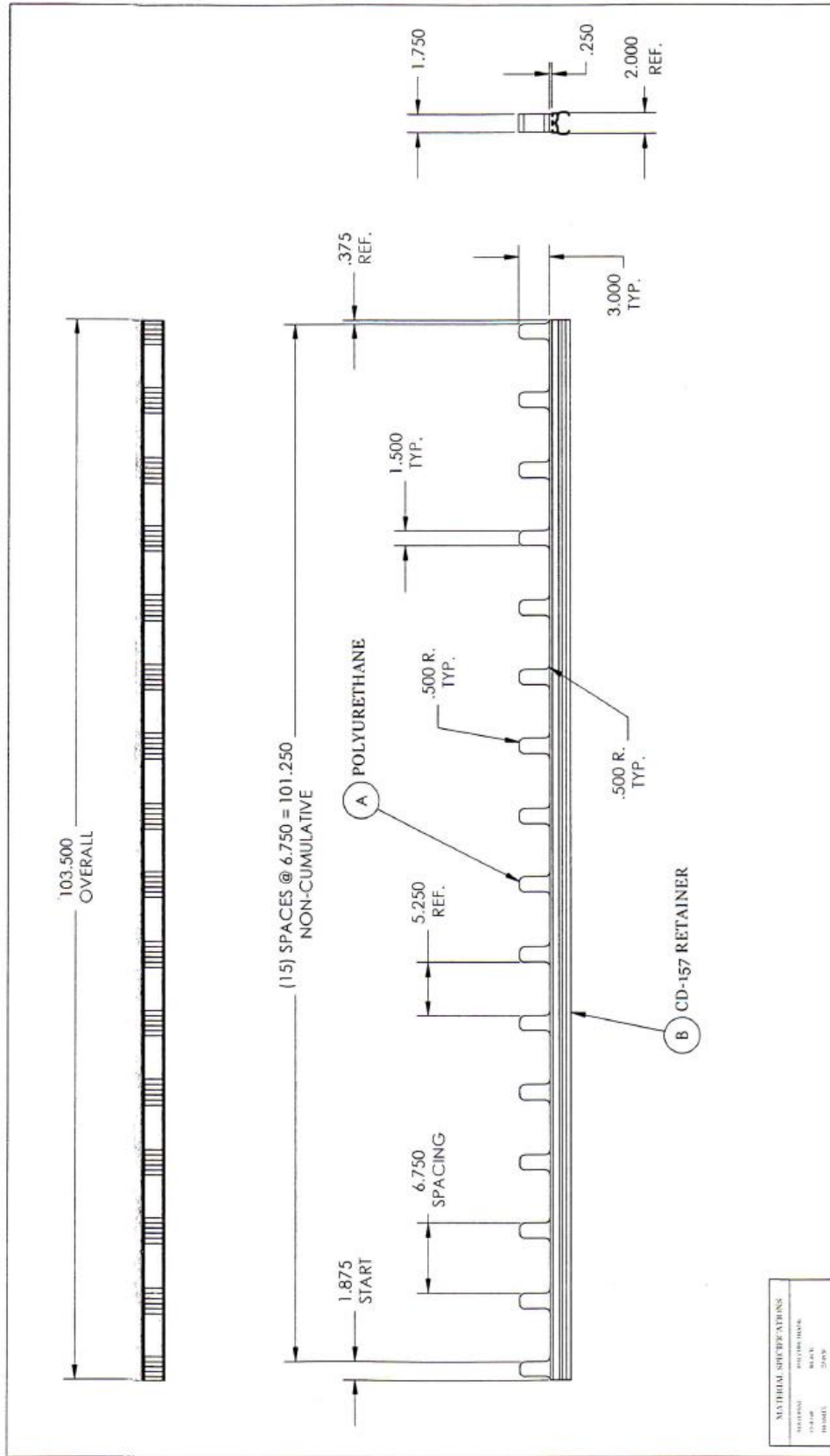


1 2 3 4 5 6 7 8



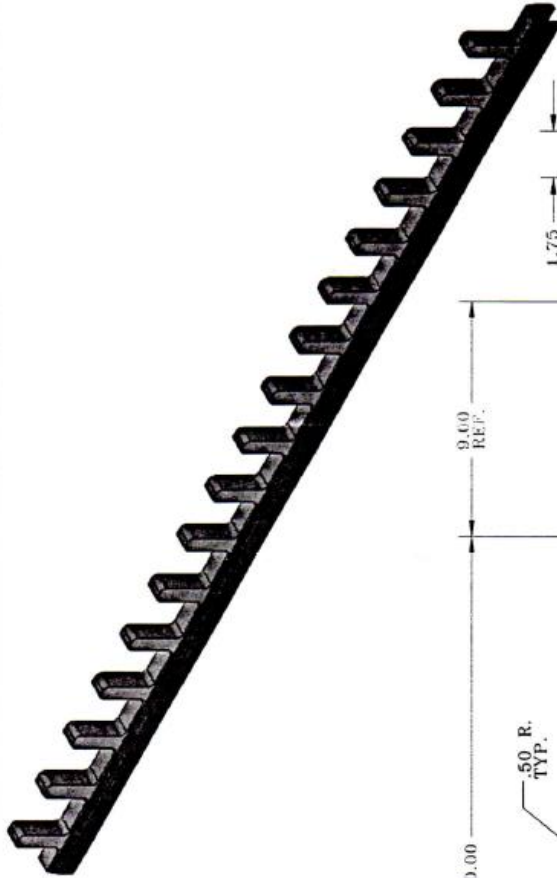
MATERIAL SPECIFICATIONS	
MATERIAL	POLYURETHANE
COLOR	BLACK
HARDNESS	25DIN
FINISH	AS SUPPLIED
1. ALL DIMENSIONS MUST BE TO UNLESS OTHERWISE SPECIFIED. 2. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED. 3. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED. 4. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED. 5. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED. 6. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED. 7. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED. 8. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED. 9. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED. 10. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.	

C & D Enterprises, Inc. CD-402 6 1/2" Spacing Separator Drainage	
DATE: 10-10-05 / 11/05 REV: 10-10-05 / 11/05 10-10-05 / 11/05	CD-402 REV: 2 OF: 2



MATERIAL SPECIFICATIONS	
MATERIAL	POLYURETHANE
COLOR	BLACK
FINISH	2000
PROCESSING	BY T.S.A.
1. DIMENSIONS ARE TO UNLESS OTHERWISE SPECIFIED. 2. DIMENSIONS ARE TO UNLESS OTHERWISE SPECIFIED. 3. DIMENSIONS ARE TO UNLESS OTHERWISE SPECIFIED. 4. DIMENSIONS ARE TO UNLESS OTHERWISE SPECIFIED. 5. DIMENSIONS ARE TO UNLESS OTHERWISE SPECIFIED. 6. DIMENSIONS ARE TO UNLESS OTHERWISE SPECIFIED. 7. DIMENSIONS ARE TO UNLESS OTHERWISE SPECIFIED. 8. DIMENSIONS ARE TO UNLESS OTHERWISE SPECIFIED. 9. DIMENSIONS ARE TO UNLESS OTHERWISE SPECIFIED. 10. DIMENSIONS ARE TO UNLESS OTHERWISE SPECIFIED.	

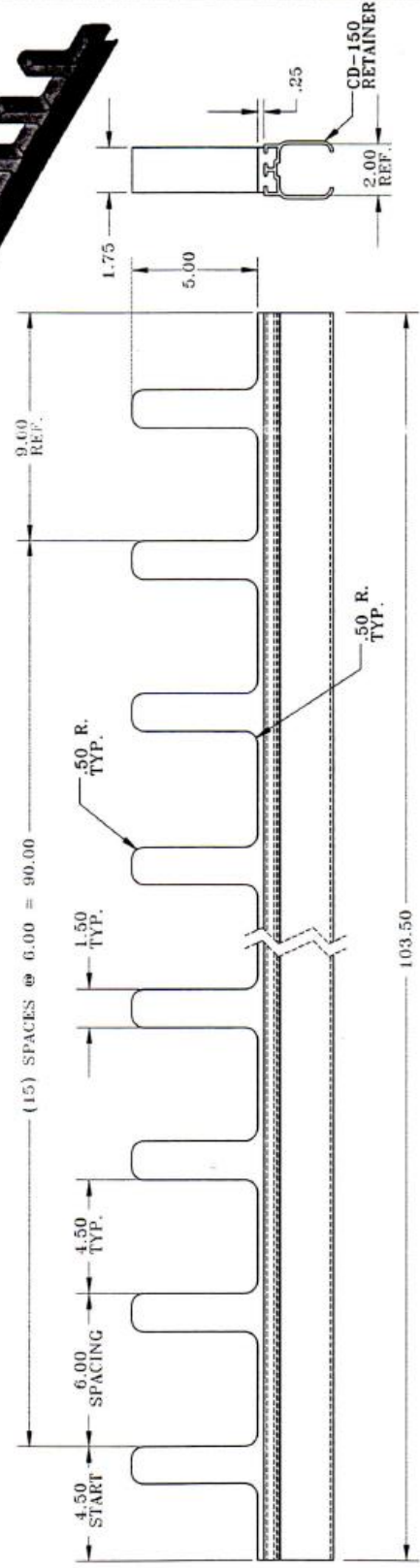
C & D Enterprises, Inc.	
CD-403	
6 3/4" Spacing Separator Bunnage	
TITLE:	CD-403
MANUFACTURING TOLERANCES	6 3/4" Spacing Separator Bunnage
DATE:	10-11-95 / 10/11/95
DRAWN BY:	J.S.
CHECKED BY:	J.S.
APPROVED BY:	J.S.
PART NUMBER:	CD-403
REV:	2
SHEET:	2



MATERIAL SPECIFICATIONS

MATERIAL:	FC-150/ETHANE
FINISH:	BLACK
WEIGHT:	27 TYP
HARDNESS:	65-75

1. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE SPECIFIED.
2. ALL PARTS TO BE FREE OF RELEASE AGENTS.
3. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHALL BE IN INCHES AND DECIMALS THEREOF.
4. ALL PARTS TO BE FREE OF DEFECTS AND UNUSUAL CHARACTERISTICS.
5. ALL PARTS TO BE FREE OF DEFECTS AND UNUSUAL CHARACTERISTICS.



C & D Enterprises, Inc.

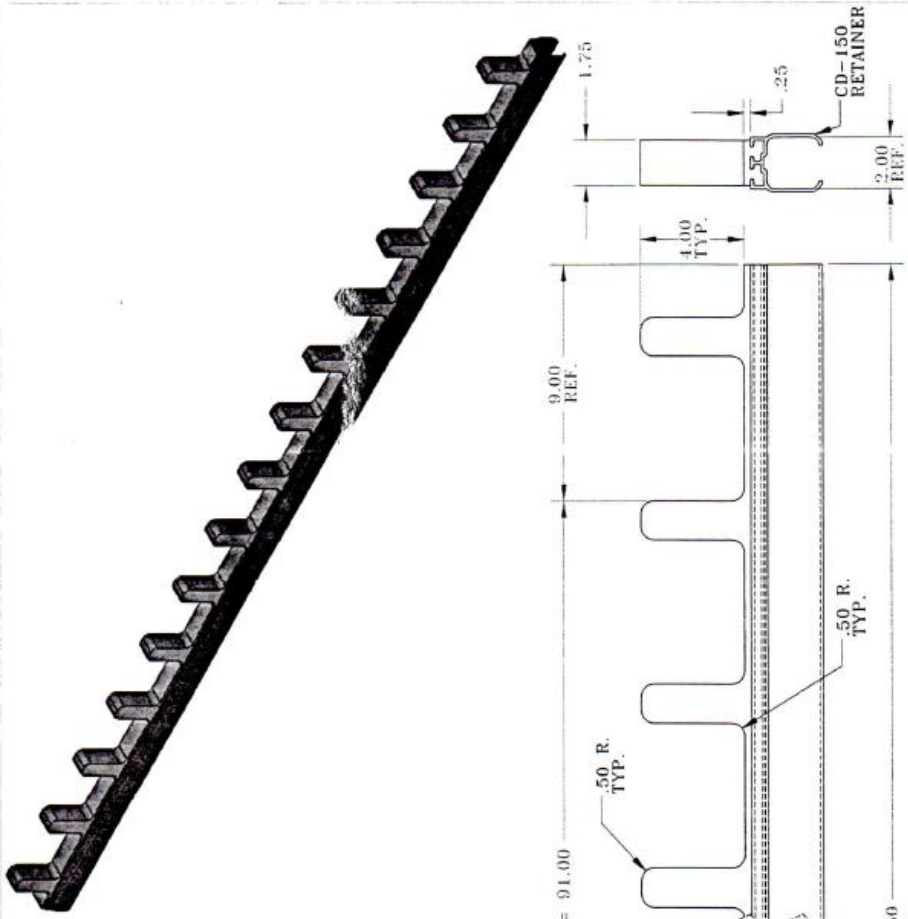
TITLE: CD-404
6.00" SPACING
SEPARATOR DUNNAGE

DATE: 9-29-06
REV: 1

CD-404

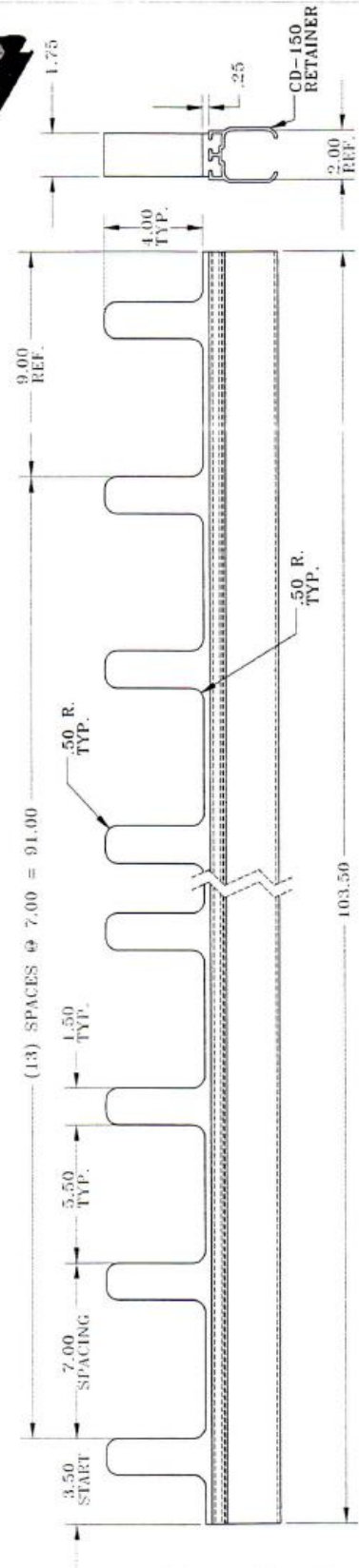
MANUFACTURING
ANGULAR
XXX

DATE: 1/7-20-08
REV: 1



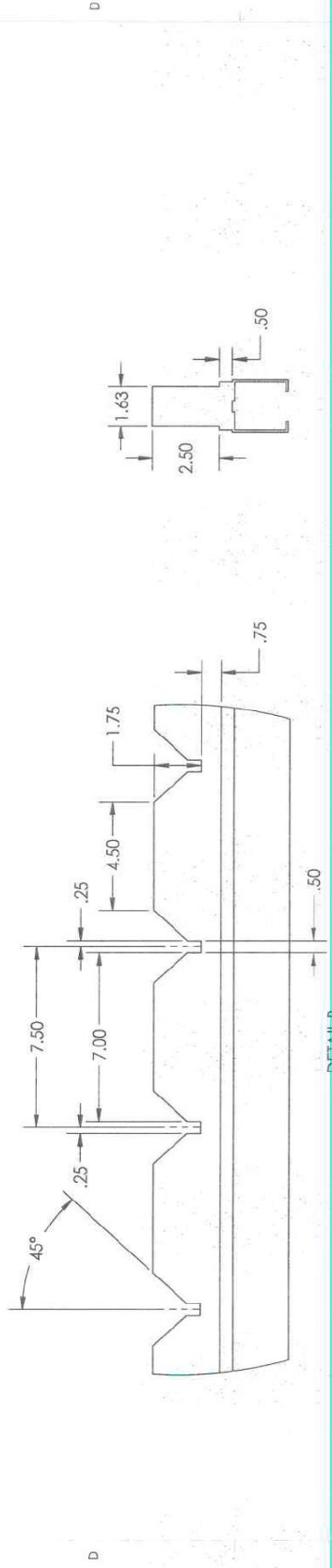
MATERIAL SPECIFICATIONS	
MATERIAL:	POURVITOLASE
COLOR:	BLACK
DENSITY:	27.5K
HARDNESS:	65 -- 7

1. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN MILLIMETERS.
 2. DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY.
 3. DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY.
 4. ALL DIMENSIONS ARE TO BE TAKEN TO THE CENTER OF THE DIMENSION.
 5. DIMENSIONS ARE TO BE TAKEN TO THE CENTER OF THE DIMENSION.
 6. DIMENSIONS ARE TO BE TAKEN TO THE CENTER OF THE DIMENSION.
 7. DIMENSIONS ARE TO BE TAKEN TO THE CENTER OF THE DIMENSION.
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 9. DIMENSIONS ARE TO BE TAKEN TO THE CENTER OF THE DIMENSION.



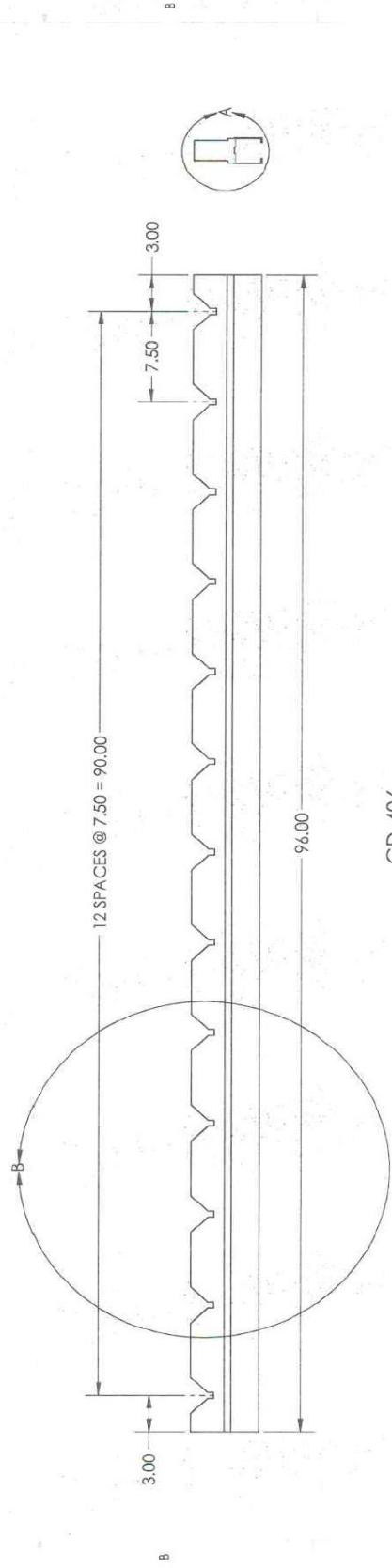
C & D Enterprises, Inc.
 TITLE: CD-405
 MANUFACTURING TOLERANCES: 7.00" SPACING
 SEPARATOR DUNNAGE
 UNITS: MET.
 DATE: 9-20-08
 DRAWN BY: JES
 CHECKED BY: JES
 APPROVED BY: JES
 PART NO.: CD-405
 REV: 1

8 7 6 5 4 3 2 1



DETAIL A
SCALE 1 : 4

DETAIL B
SCALE 1 : 4



CD-406

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THIRD ANGLE PROJECTION

MANUFACTURING TOLERANCES:
 UNLESS OTHERWISE SPECIFIED
 ANGULAR = ± .5
 .XX = ± 0.063
 .XXX = ± 0.031

MATERIAL SPECIFICATIONS

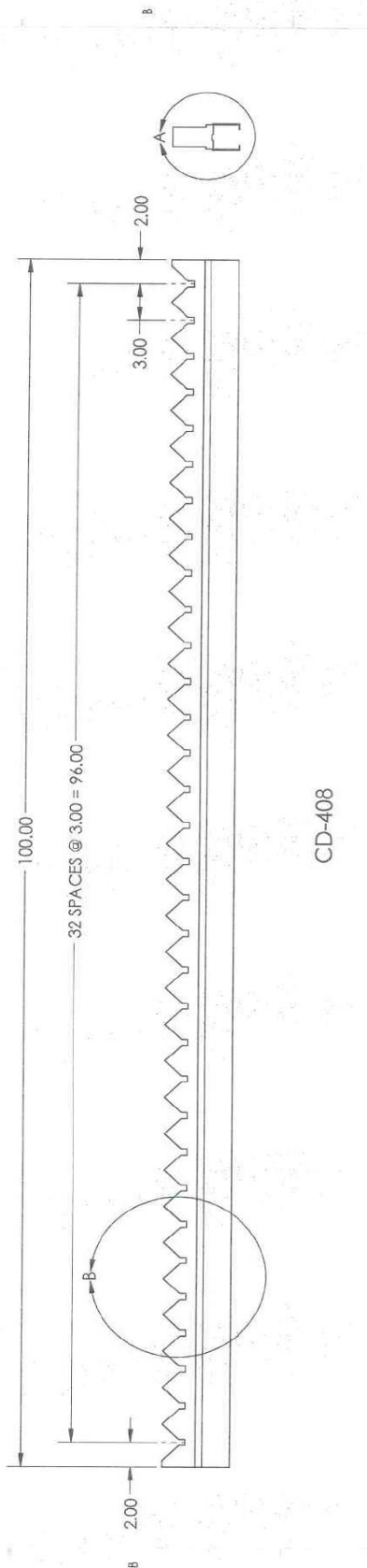
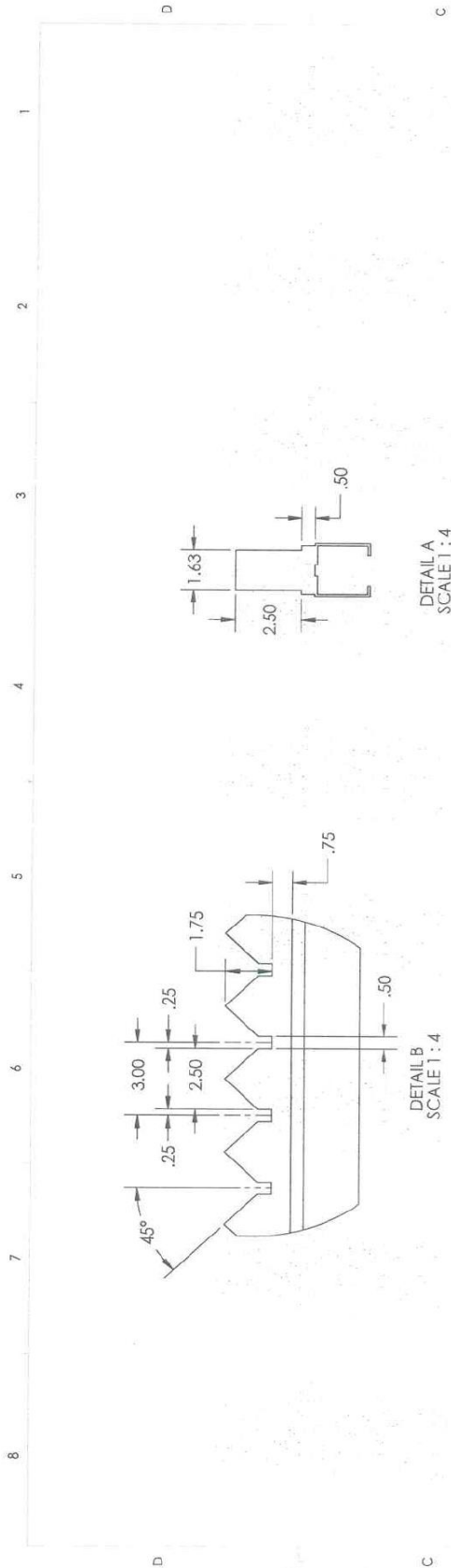
MATERIAL:	POLYURETHANE
COLOR:	BLACK
DENSITY:	27 PCF
HARDNESS:	85 SHORE A

OTHER

C & D ENTERPRISES

NAME: J. URBAN DATE: 6/30/2014 DESCRIPTION: CD-406
 DRAWN: J. URBAN SIZE: DWG. NO. CD-406
 CHECKED: PROJECT CD-406
 PROJECT CD-406
 SCALE: 1:20 WEIGHT: SHEET 1 OF 1

A Eng O./Design/CandD_Jobs/2014/Updated CD Details 26.Jun.14/CD-406



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THIRD ANGLE PROJECTION

MANUFACTURING TOLERANCES:
 UNLESS OTHERWISE SPECIFIED:
 ANGULAR = ± .5
 .XX = ± 0.063
 .XXX = ± 0.031

THIS DESIGN IS A REPRESENTATION OF PRODUCT. IT MAY BE MADE TO INCREASE MANUFACTURABILITY OR IMPROVE FUNCTION DURING TOOL BIDD.

C & D ENTERPRISES

NAME: J. URBAN DATE: 6/27/2014 DESCRIPTION: B SIZE: DWG. NO. CD-408 REV

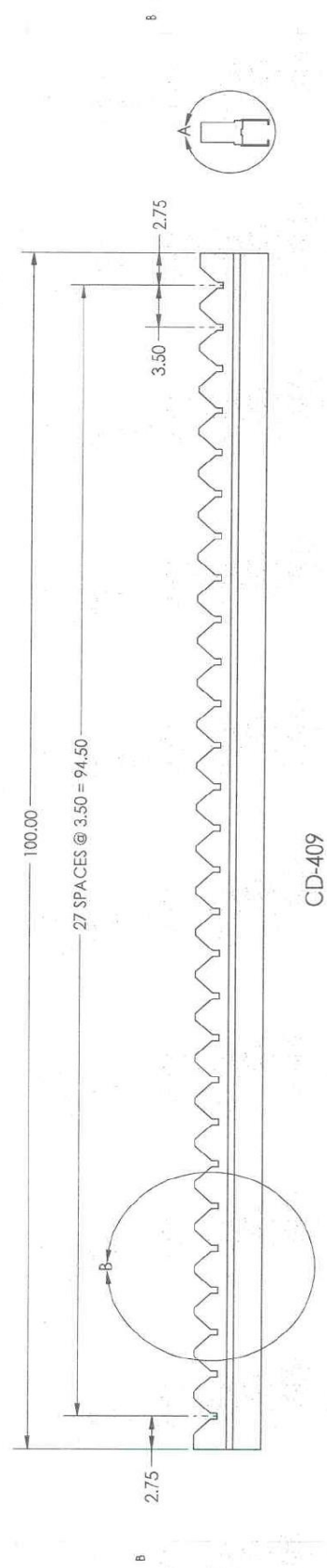
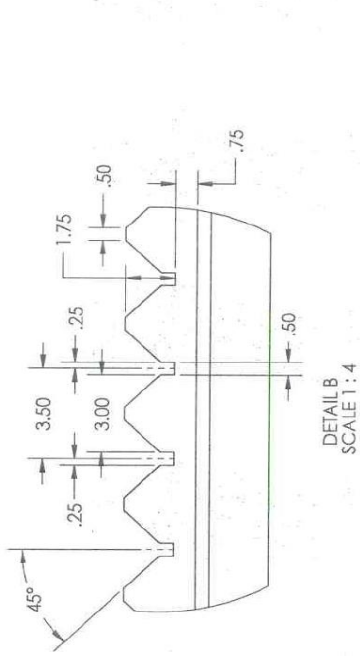
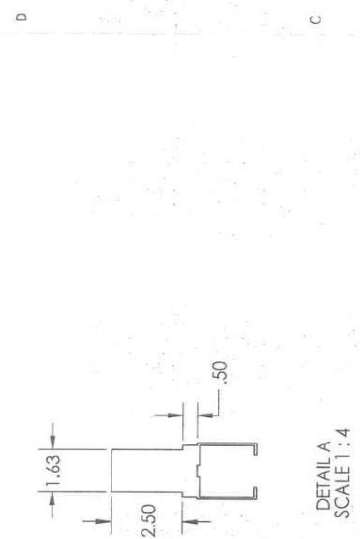
CHECKED: PROJECT: SCALE: 1:20 WEIGHT: SHEET 1 OF 1

MATERIAL SPECIFICATIONS	
MATERIAL:	PO YURETHANE
COLOR:	BLACK
DENSITY:	27 PCF
HARDNESS:	65 SHORE A

OTHER

Eng O./Design/Canad_Jobs/2014/CD Dunnage Retainers 26Jun14/CD-408

8 7 6 5 4 3 2 1



Eng O:/Design/CandD_jobs/2014/CD Dunnage Retainers 26Jun14/CD-409

CD & D ENTERPRISES

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THIRD ANGLE PROJECTION

MANUFACTURING TOLERANCES:
UNLESS OTHERWISE SPECIFIED:
ANGULAR = ± .5
XX = ± 0.063
XXX = ± 0.031

THIS DRAWING IS A REPRESENTATION OF PRODUCT FIT AND FUNCTION. MODIFICATIONS TO THE DESIGN OR IMPROVE FUNCTION DURING TOOL BUILD.

MATERIAL SPECIFICATIONS	
MATERIAL	POLYURETHANE
COLOR	BLACK
DENSITY	27 PCF
HARDNESS	65 SHORE A

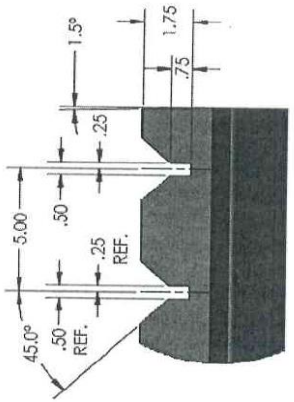
OTHER

DATE: 6/27/2014
DRAWN: J. URBAN
CHECKED: PROJECT: CD-409

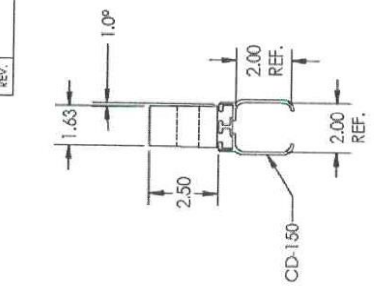
DESCRIPTION: B
SCALE: 1:20 WEIGHT: SHEET 1 OF 1

1 2 3 4 5 6 7 8

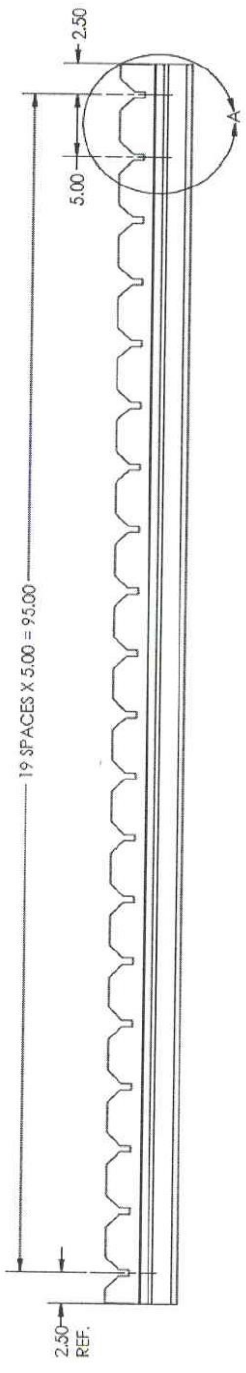
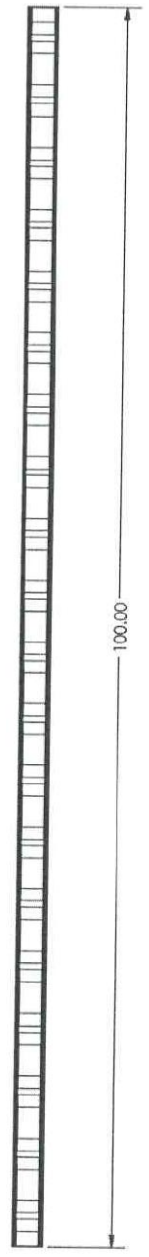
REV.	DESCRIPTION	DATE	APPROVED



DETAIL A
SCALE 1 : 4



CD-150



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THIRD ANGLE PROJECTION

MANUFACTURING TOLERANCES:
 UNLESS OTHERWISE SPECIFIED
 ANGULAR = ± .5
 XX = ± 0.005
 XXX = ± 0.001

THE DRAWING IS A REPRESENTATION OF PRODUCT AS MANUFACTURED AND IS NOT TO BE USED FOR DIMENSIONING OR INSPECTION PURPOSES UNLESS SPECIFICALLY NOTED OTHERWISE.

NAME	DATE	DESCRIPTION	REV
R. SMITH	1/2/2017	SIZE DWG. NO.	
		CD-410	

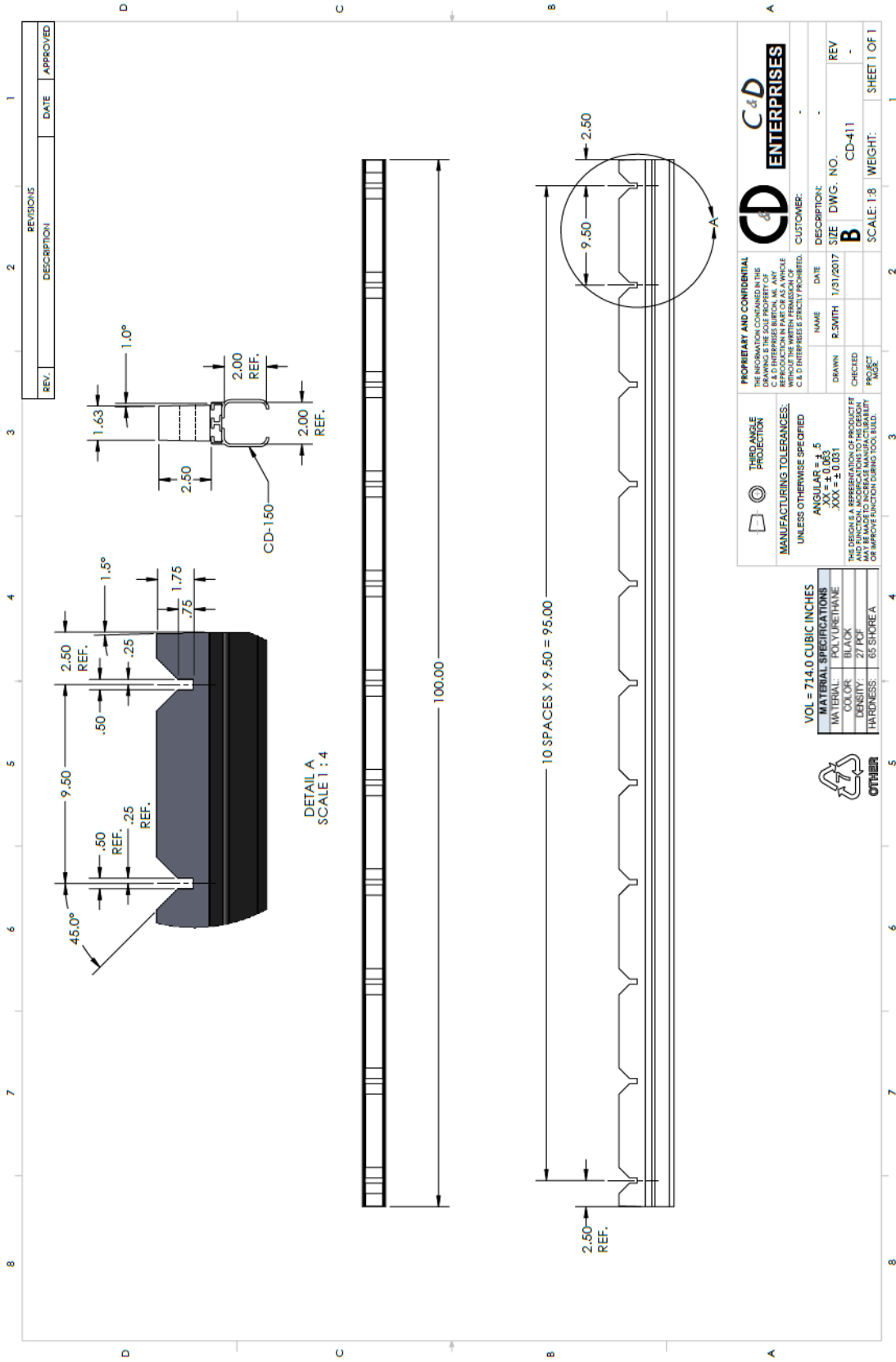
CUSTOMER: B
 SCALE: 1:8 WEIGHT: SHEET 1 OF 1

VOL = 449.0 CUBIC INCHES

MATERIAL SPECIFICATIONS	
MATERIAL	POLYURETHANE
COLOR	BLACK
DENSITY	27 PCF
HARDNESS	185 SHORE A



1 2 3 4 5 6 7 8



DETAIL A
SCALE 1 : 4

REV.	DESCRIPTION	DATE	APPROVED

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PRODUCTION PROHIBITION
 UNLESS OTHERWISE SPECIFIED:
 ANGULARS ± .5
 XX ± 0.0625
 XXX ± 0.031

MATERIAL SPECIFICATIONS
 MATERIAL: POLYURETHANE
 COLOR: BLACK
 DENSITY: 27 PCF
 HARDNESS: 65 SHORE A

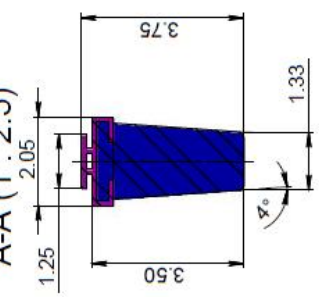
OTHER

C&D ENTERPRISES

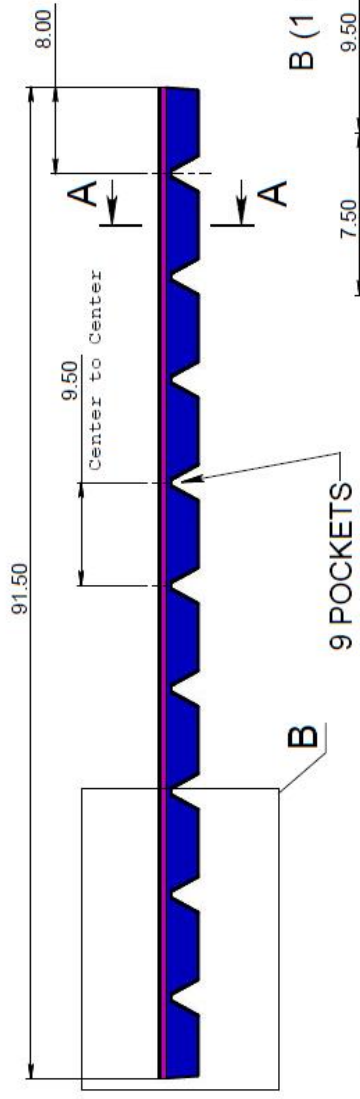
NAME: B. SMITH DATE: 1/31/2017
 DRAWN: B. SMITH SIZE: DWG. NO.: CD-411
 CHECKED: PRODUCT: SCALE: 1:8 WEIGHT: SHEET 1 OF 1

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
IR		3/8/2017	ADS

A-A (1 : 2.5)

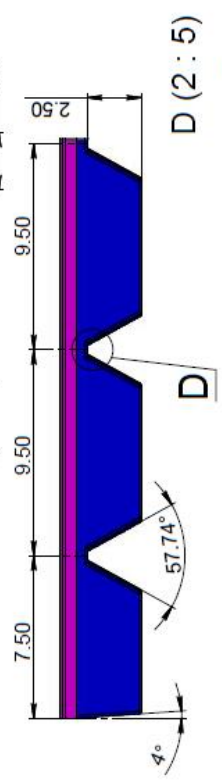


Scale 1 : 10



9 POCKETS

B (1 : 5)



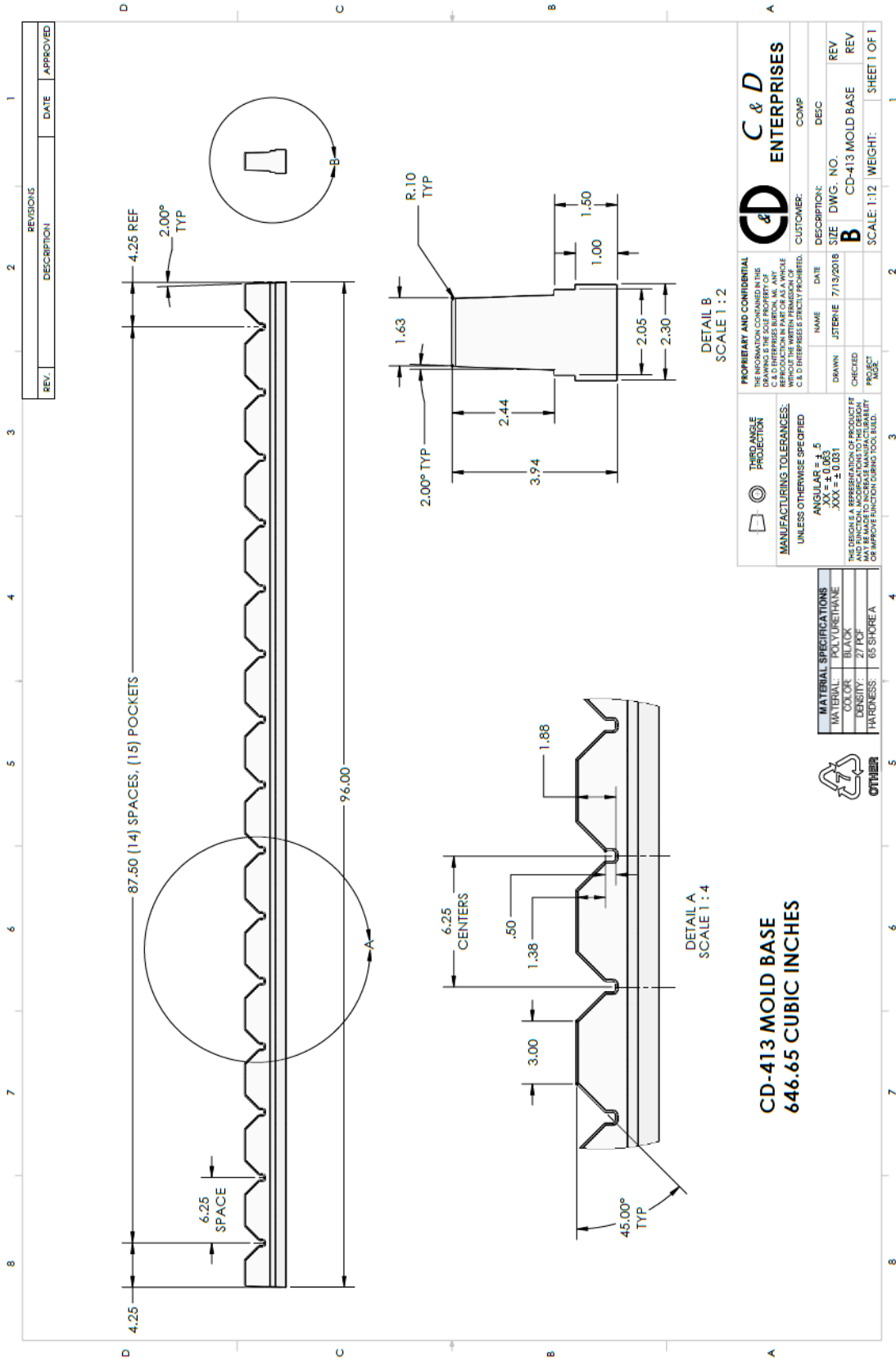
C (1 : 1.5)



Cubic Inch of Part - 467.83

Material Specification		AeroDesign Services	
Material:	Polyurethane	TITLE:	RACK CODE #0SP01641
Color:	Black		16MP LIFT GATE ASSY
Density:	27 pcf	Drawn by	P. Patel
Hardness:	65 Shore A	Checked by	O. Avertkiv
			Page 1 of 1
			A3

CD-412



REV.	DESCRIPTION	DATE	APPROVED

THIRD ANGLE PROJECTION		PROPERTY AND CONFIDENTIAL	
MANUFACTURING TOLERANCES: UNLESS OTHERWISE SPECIFIED		THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF C & D ENTERPRISES. IT IS TO BE USED FOR THE MANUFACTURE OF THE PART OR AS A GUIDE WITHOUT THE WRITTEN PERMISSION OF C & D ENTERPRISES IS STRICTLY FORBIDDEN.	
ANGULAR = .5	NAME	DATE	DESCRIPTION
XX = ± 0.003	JSTERNE	7/13/2018	SIZE DWG. NO.
XXX = ± 0.001	CHECKED		B CD-413 MOLD BASE
THE DESIGNER ASSUMES NO LIABILITY FOR THE DESIGN AND FUNCTION. MODIFICATIONS TO THE DESIGN SHALL BE THE RESPONSIBILITY OF THE CUSTOMER.	PROJECT		SCALE: 1:12 WEIGHT: SHEET 1 OF 1
TO IMPROVE FUNCTION USING TOOL BUILD.			

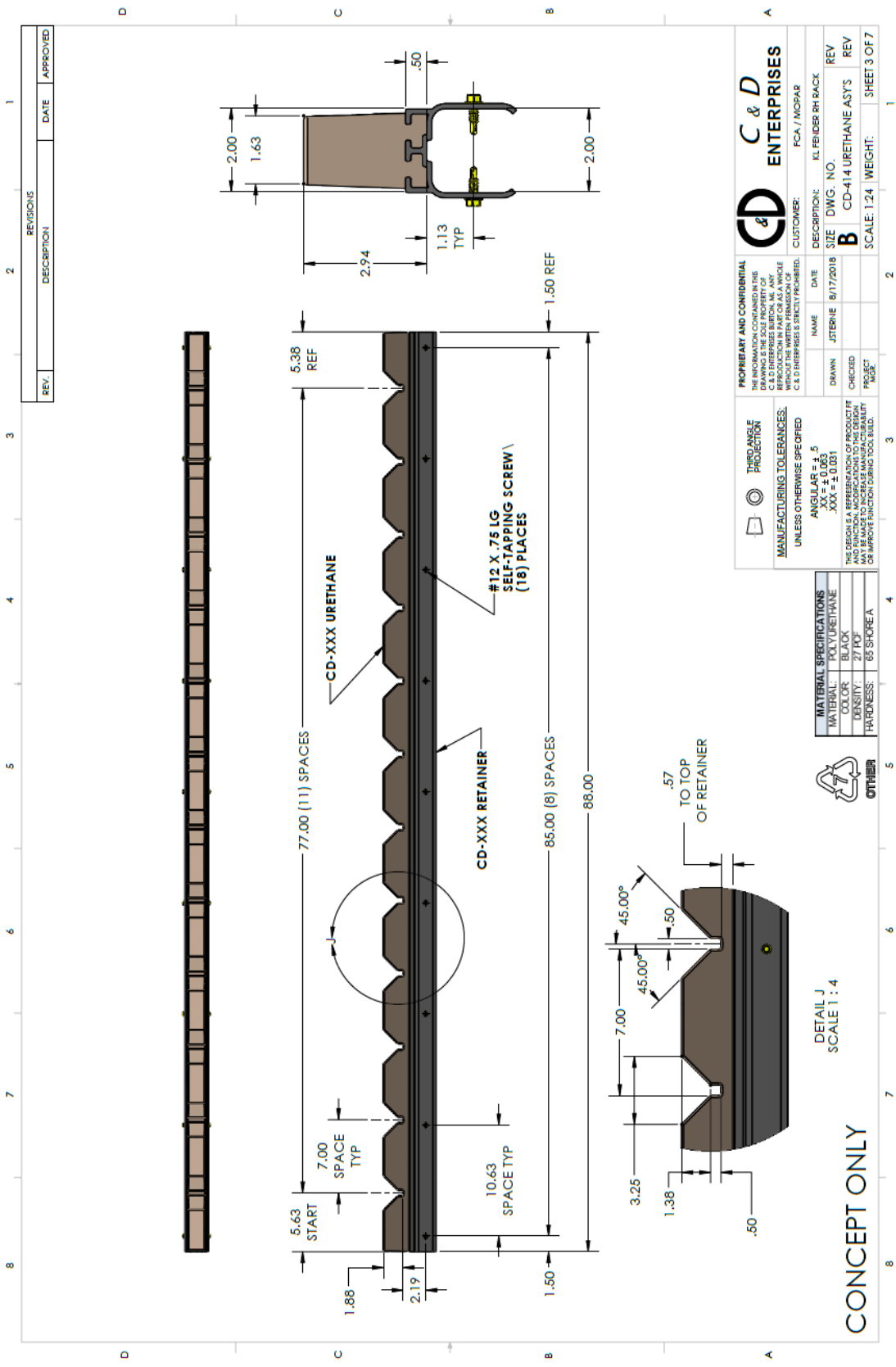
MATERIAL SPECIFICATIONS	
MATERIAL	POLYURETHANE
COLOR	BLACK
DENSITY	.27 PCF
HARDNESS	65 SHORE A



CD-413 MOLD BASE
646.65 CUBIC INCHES

DETAIL A
 SCALE 1:4

DETAIL B
 SCALE 1:2



REV.	DESCRIPTION	DATE	APPROVED

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE PROPERTY OF C & D ENTERPRISES. NO PART OF THIS DRAWING IS TO BE REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF C & D ENTERPRISES & STRICTLY PROHIBITED.		C & D ENTERPRISES FCA / MOPAR	
NAME	DATE	DESCRIPTION	KL FEIDER RH BACK
JTERNE	8/17/2018	SIZE	DWG. NO.
CHECKED		B	CD-41.4 URETHANE ASYS
PROJECT		SCALE	1:24
WEIGHT			1.24
			SHEET 3 OF 7

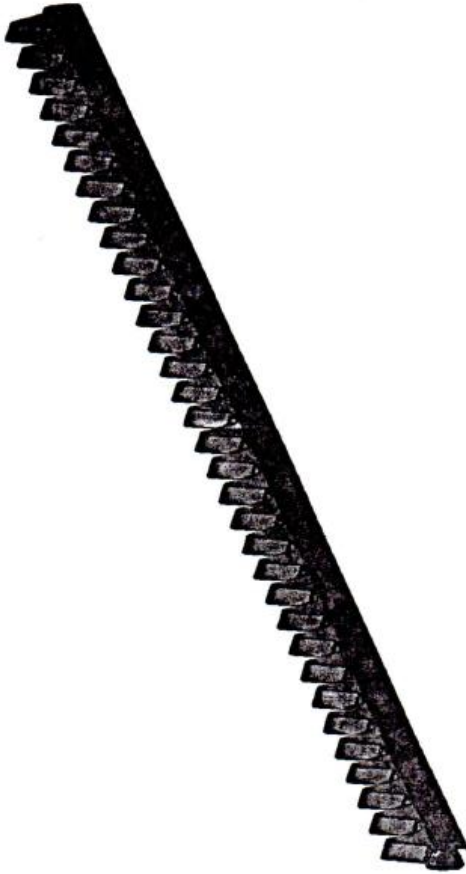
THIRD ANGLE PROJECTION	
UNLESS OTHERWISE SPECIFIED	
ANGULAR	± .5
XX	± 0.063
XXX	± 0.031
THIS DESIGN IS A REPRESENTATION OF PRODUCT IT IS NOT A CONTRACT. THE MANUFACTURER SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS AND MATERIALS. ANY DIMENSIONS NOT SHOWN SHALL BE MADE TO INCREASE MANUFACTURABILITY OR IMPROVE FUNCTION DURING TOOL BUILD.	

MATERIAL SPECIFICATIONS	
MATERIAL	POLYURETHANE
COLOR	BLACK
DENSITY	27 PCF
HARDNESS	105 SHORE A

DETAIL J	
SCALE 1 : 4	

CONCEPT ONLY

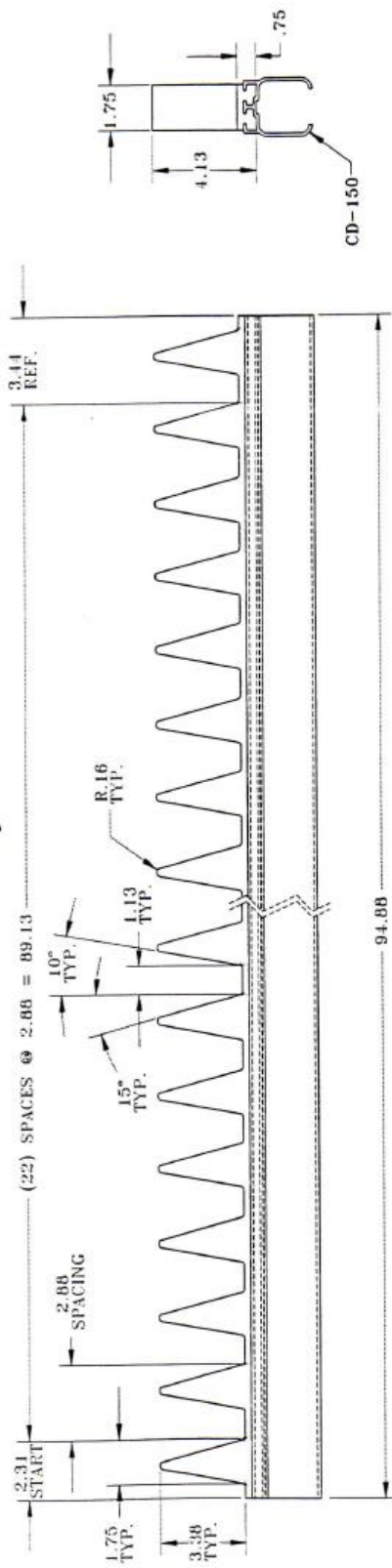
UNCONTROLLED WHEN PRINTED OR IN PDF FORM



MATERIAL SPECIFICATIONS

MATERIAL:	POLYURETHANE
COLOR:	BLACK
DENSITY:	WTFP
HARDNESS:	90 ± 5
<p>1. ALL ANGLED SURFACES SHALL BE POLYURETHANE 2. SURFACES SHALL BE FINISHED TO A SMOOTH POLYURETHANE FINISH WITH NO DEFECTS.</p>	
<p>3. SUBSTITUTIONS ARE NOT ALLOWED.</p>	
<p>4. ALL PARTS TO BE FREE OF RELEASE AGENTS.</p>	
<p>5. ALL PARTS TO BE PERMANENTLY MARKED WITH IDENTIFICATION NUMBER AND DATE OF PRODUCTION.</p>	

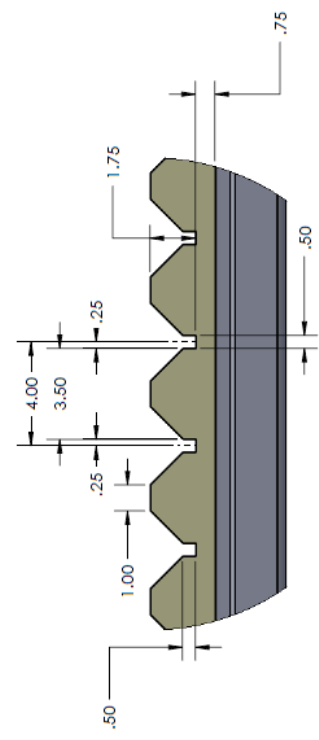
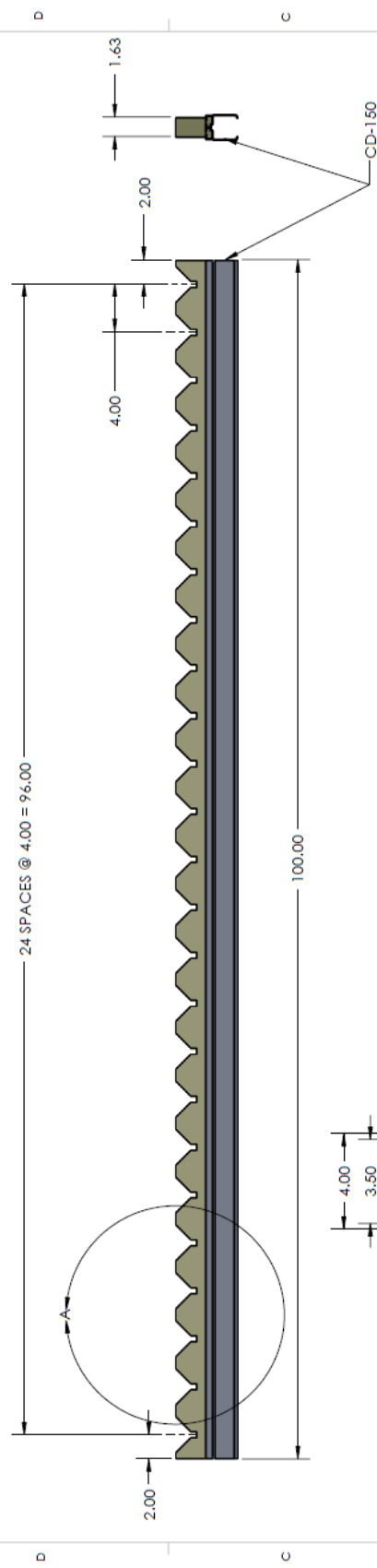
NOTE: ALL FILLETS & RADI TO BE .13
 UNLESS OTHERWISE SPECIFIED.
 ALL DRAFFTS TO BE 3 DEGREES
 UNLESS OTHERWISE NOTED.



Job #
5803


C & D Enterprises, Inc.	
TITLE: CD-1020 2.88" SPACING SEPARATOR BUNNAGE	
DATE: 9-20-06 NAME: REF	DATE: 9-20-06 NAME: REF
PARTIAL REF	PARTIAL REF
CD-1020	CD-1020

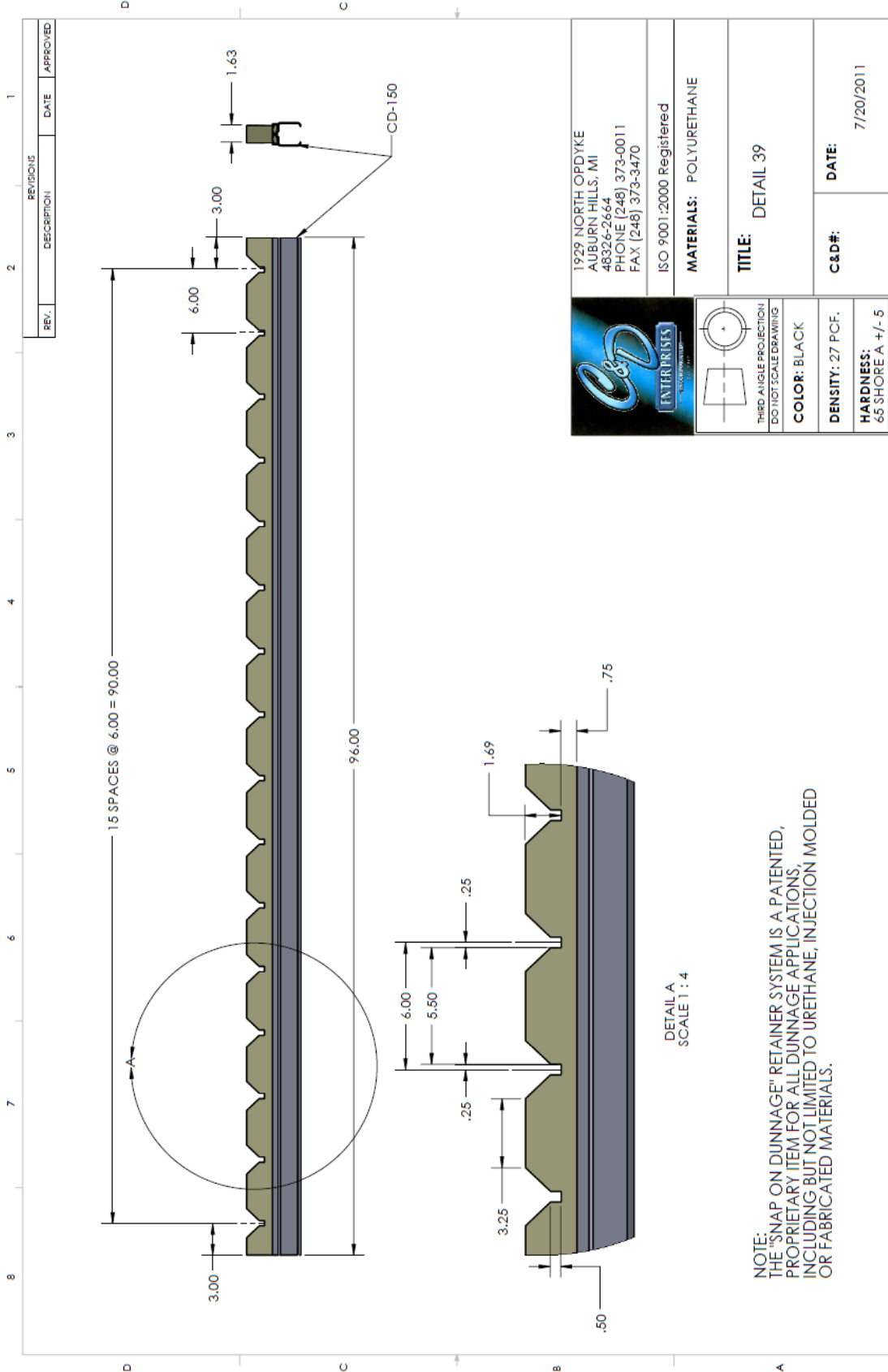
REV.	DESCRIPTION	DATE	APPROVED
1			



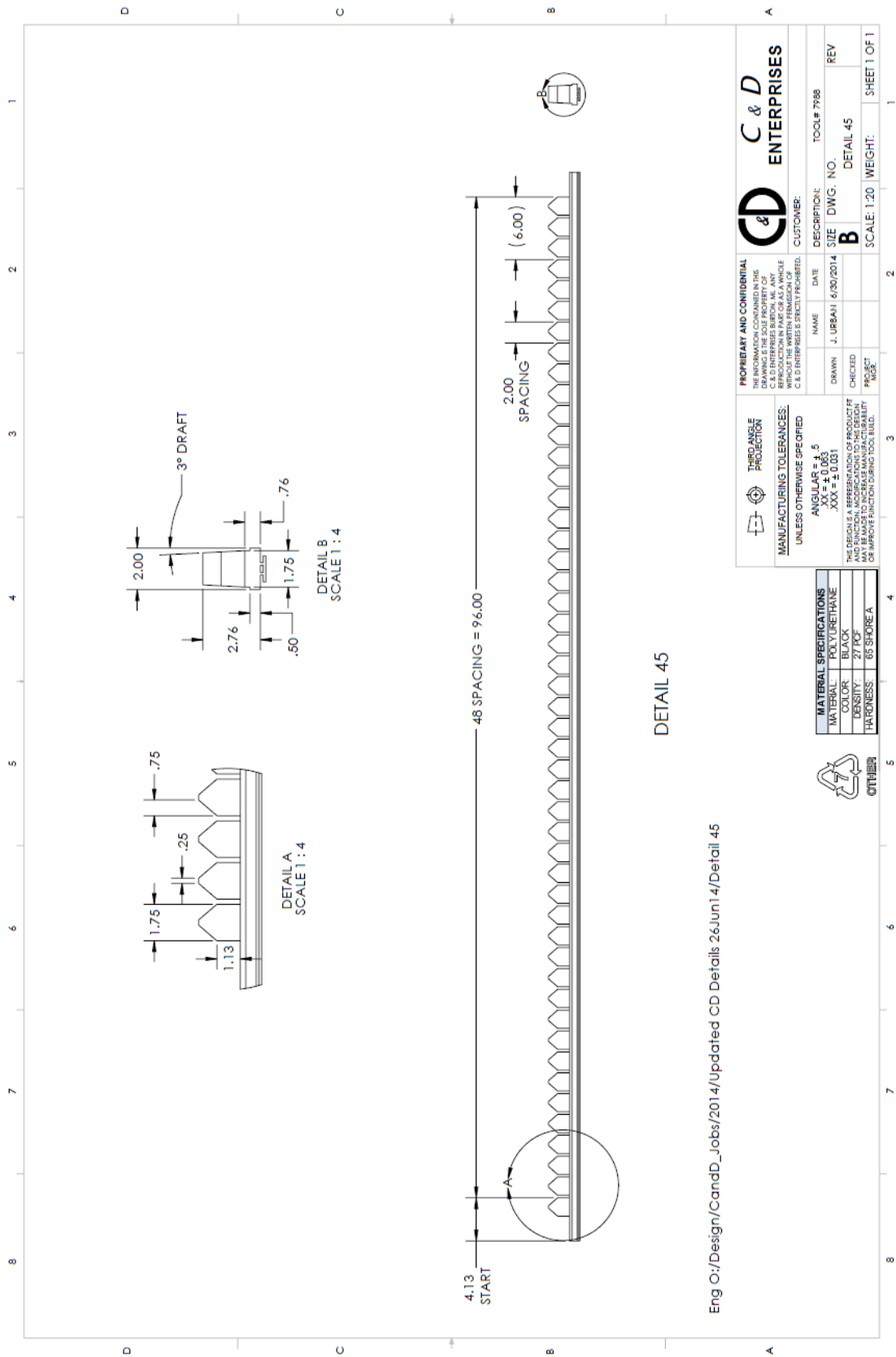
DETAIL A
SCALE 1:4

NOTE:
THE "SNAP ON DUNNAGE" RETAINER SYSTEM IS A PATENTED,
PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS,
INCLUDING BUT NOT LIMITED TO URETHANE, INJECTION MOLDED
OR FABRICATED MATERIALS.

	1929 NORTH OPDYKE AUBURN HILLS, MI 48326-2664 PHONE (248) 373-0011 FAX (248) 373-3470	
	ISO 9001:2000 Registered	
MATERIALS: POLYURETHANE		TITLE: DETAIL 36
THIRD ANGLE PROJECTION ISO 1101 SCALE DRAWING		C&D#: DATE: 7/20/2011
COLOR: BLACK		DENSITY: 27 PCF.
HARDNESS: 65 SHORE A +/- 5		



NOTE:
 THE "SNAP ON DUNNAGE" RETAINER SYSTEM IS A PATENTED,
 PROPRIETARY ITEM FOR ALL DUNNAGE APPLICATIONS,
 INCLUDING BUT NOT LIMITED TO URETHANE, INJECTION MOLDED
 OR FABRICATED MATERIALS.



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NAME	DATE	DESCRIPTION	TOOL # 7888
J. URBAN	6/30/2014	SIZE DWG. NO.	DETAIL 45
CHECKED		PROJECT	SCALE: 1.20 WEIGHT: 5 SHEET 1 OF 1
PROJECT			
MANUFACTURING TOLERANCES:			
UNLESS OTHERWISE SPECIFIED			
ANGULAR = ± .5			
XXX = ± 0.003			
XX = ± 0.001			
THIS SPECIFICATION IS SUBJECT TO THE DESIGN AND FUNCTIONAL MODIFICATIONS TO THE DESIGN FOR IMPROVED FUNCTIONING TOOL LIFE.			

MATERIAL SPECIFICATIONS	
MATERIAL	POLYURETHANE
COLOR	BLACK
DENSITY	27 PCF
HARDNESS	65 SHORE A



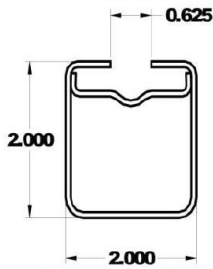
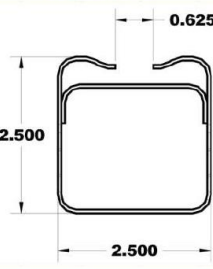
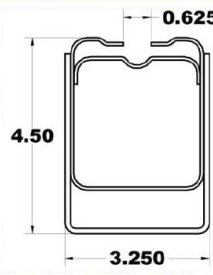
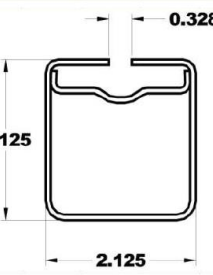
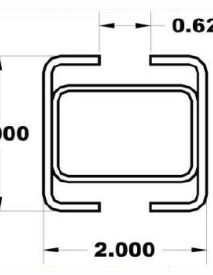
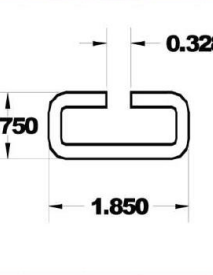
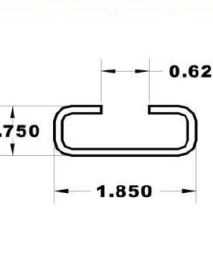

Eng O:/Design/CandD_Jobs/2014/Updated CD Details 26/Jun14/Detail 45



Richfield
Industries

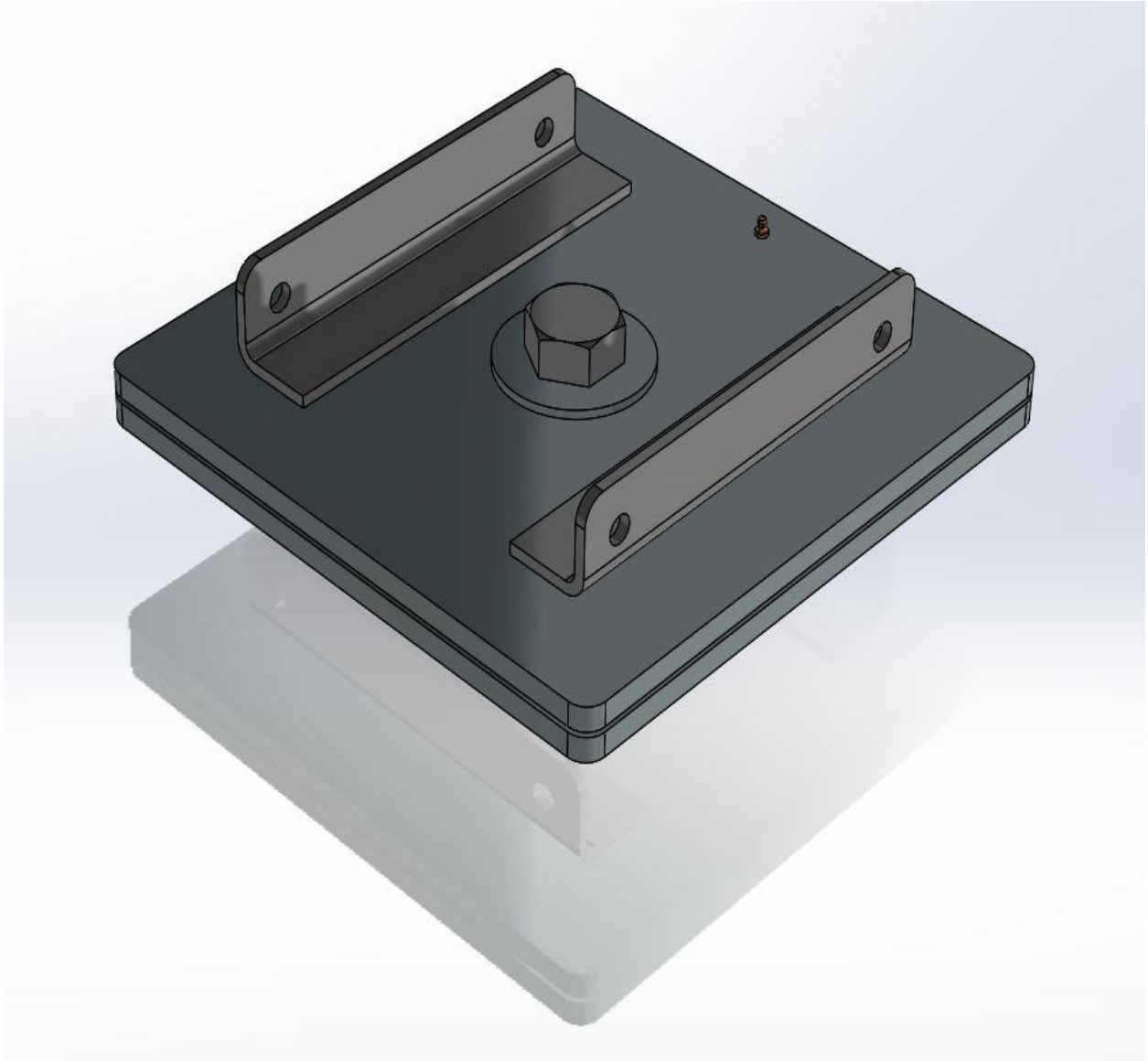
DUNNAGE BAR SPECIFICATION SHEET

Available dunnage bar / load bar specification sheet

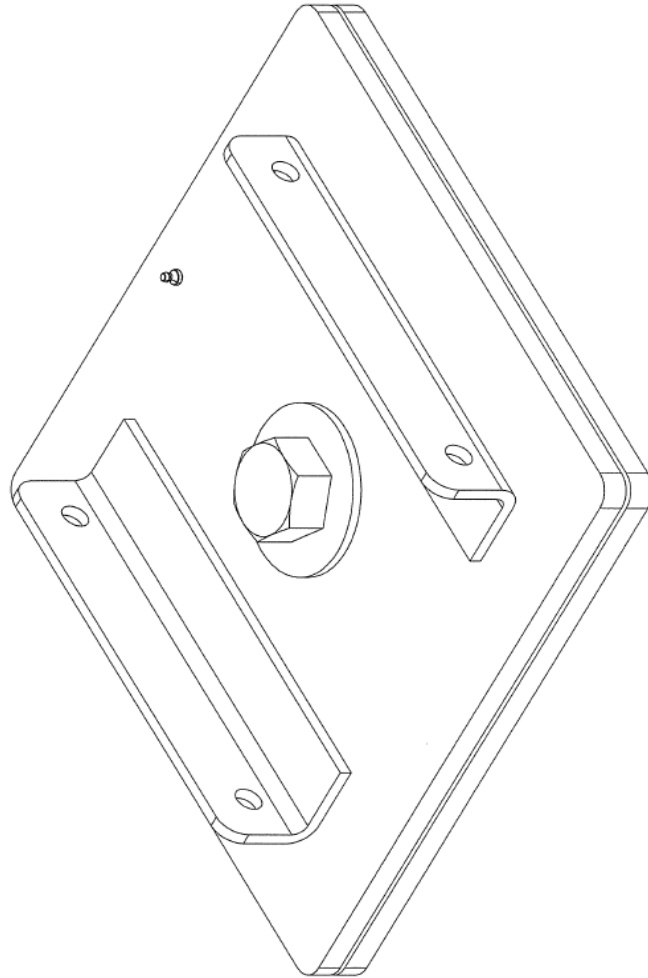
<p>Profile</p> 	<p>Specifications</p> <p>XF Standard</p> <p>Weights</p> <p>2.28 lbs./ft. (comparable to an aluminum bar)</p> <p>RI Part #</p> <p>RI-5074 / 2XF</p>	<p>Profile</p> 	<p>Specifications</p> <p>GM AHB Series</p> <p>Weights</p> <p>2.28 lbs./ft.</p> <p>RI Part #</p> <p>RI-913 x 89.125" RI-914 x 89.625" RI-915 x 104" 2.5XF</p>
<p>Profile</p> 	<p>Specifications</p> <p>GM High-Strength</p> <p>Weights</p> <p>5.35 lbs./ft.</p> <p>RI Part #</p> <p>RI-5074 3.5x3XF</p>	<p>Profile</p> 	<p>Specifications</p> <p>XF Special</p> <p>Weights</p> <p>3.42 lbs./ft.</p> <p>RI Part #</p> <p>RI-570 2.12 XF</p>
<p>Profile</p> 	<p>Specifications</p> <p>Standard Double Slot</p> <p>Weights</p> <p>3.42 lbs./ft.</p> <p>RI Part #</p> <p>RI-5011 2 Double Slot</p>	<p>Profile</p> 	<p>Specifications</p> <p>Standard Load Bar</p> <p>Weights</p> <p>8 Gage 2.1 lbs./ft. Or 11 Gage 1.7 lbs./ft.</p> <p>RI Part #</p> <p>RI-5022 .75x1.850</p>
<p>Profile</p> 	<p>Specifications</p> <p>Standard Load Bar</p> <p>Weights</p> <p>12 Gage 1.4 lbs./ft.</p> <p>RI Part #</p> <p>RI-5023</p>		

**For more information please contact
Kim Campbell @ 248-634-8267 ext. 2212
Email dbars@richind.com**

SWIVEL BEARING ASSEMBLY



Job # 6001
 Quantity
 Date Rec'd 7/10/17
 Rack LVL 27-8-17



RICHFIELD JOB NUMBER: 6001

DRAWING SET RELEASE LEVEL/DATE: 27-8-17

RICHFIELD INDUSTRIES		RICHFIELD INDUSTRIES	
TITLE		SWIVEL BEARING ASSY WITH MOUNTING BRACKETS	
DATE	4-4-16	DATE	7/10/17
DRAWN	JGC	CHKD	JGC
CHECKED		DATE	7/10/17
THIS DRAWING IS THE PROPERTY OF RICHFIELD INDUSTRIES UNLESS OTHERWISE SPECIFIED ALL RIGHTS ARE RESERVED ANGULAR DIMENSIONS UNLESS OTHERWISE SPECIFIED UNLESS OTHERWISE SPECIFIED		SHEET NO. 1 OF 7	
2 NOT TO BE USED 1 RELEASE FOR PRODUCTION		DRAWN SET RELEASED 27-8-17	

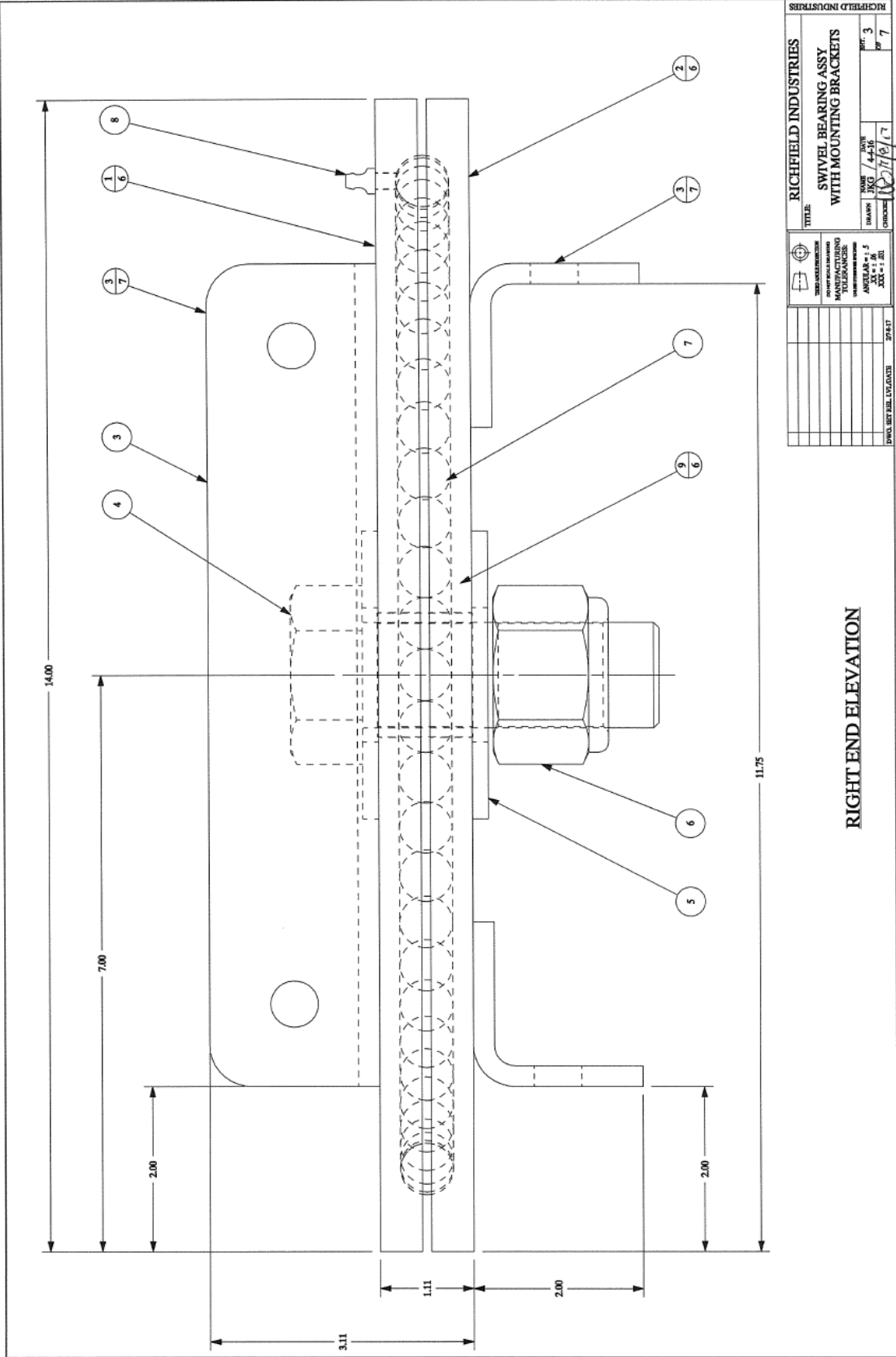
KEY	DET	QTY	SHT	DESCRIPTION
1	1	3.6		50 X 14.00 X 14.00 - MACHINED PLATE - ZINC PLATED W/ ZERK HOLE
2	1	3.6		50 X 14.00 X 14.00 - MACHINED PLATE - ZINC PLATED
3	4	3.7		25 X DEV. WIDTH X 10.00 LG. - H.R.S.
4	1	3		1.25-7 X 3.50 LG -HEX HEAD MECH BOLT GRADE 5 - ZINC PLATED
5	2	3		1.25 USS WASHER
6	1	3		1.25-7 NYLON NUT
7	60	3		.625 STAINLESS STEEL BEARING
8	1	3		ZERK FITTING (PRESS IN) 3/16
9	1	3.6		1.25 BORE X 1.50 OD X 1.125 LG. - CAST BRONZE BUSHING

KEY

GENERAL NOTES

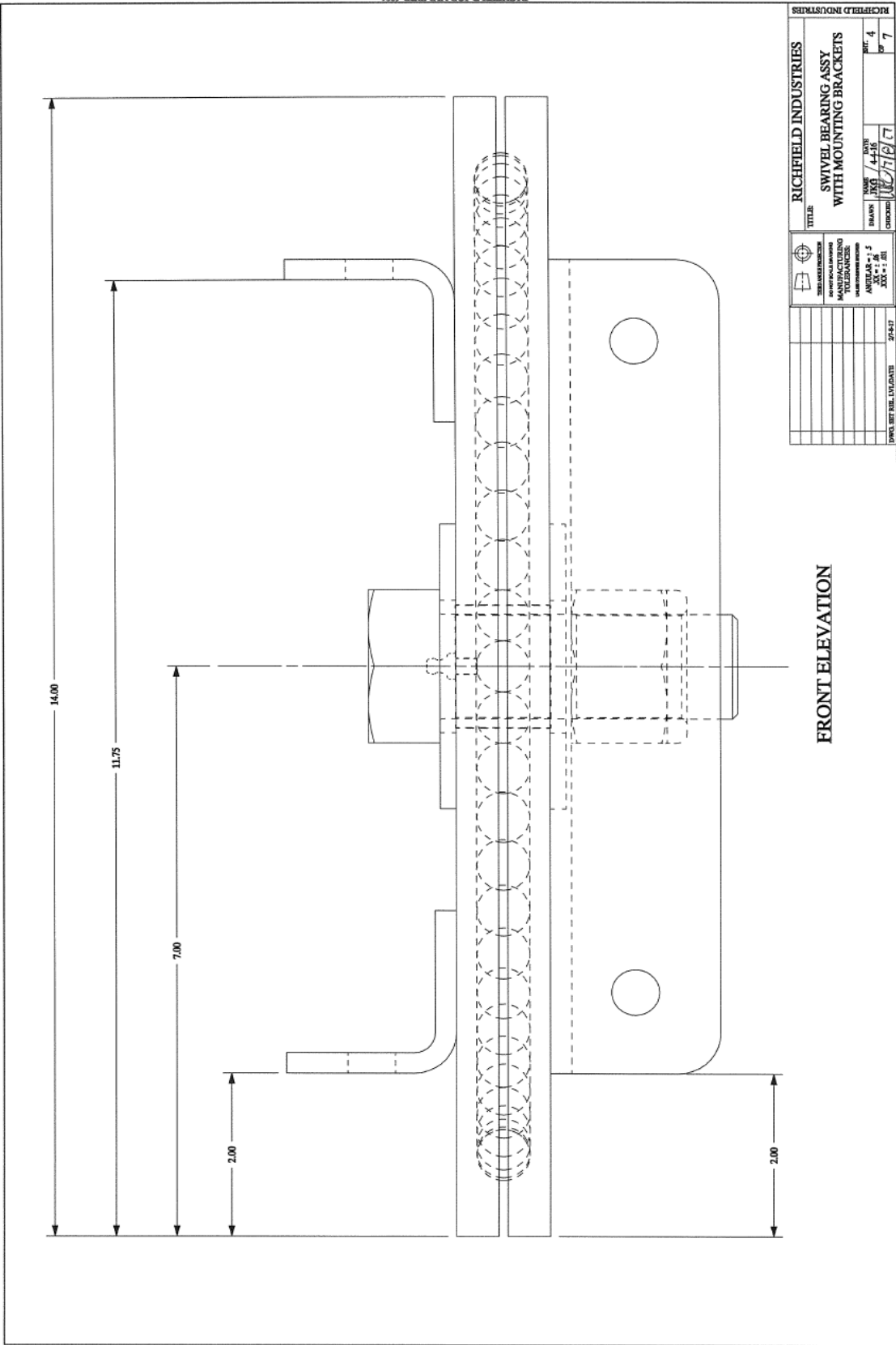
- 1) FOR ALL DESIGN CONSTRUCTION & DIMS NOT SHOWN, REFER TO CHRYSLER LLC MATERIAL HANDLING CASE STANDARDS
- 2) PRIME BACK & ACCESSORIES COMPLETE (1) COAT CHRYSLER LLC STANDARD RFP# 42583 BUFF & PAINT (2) COMPLETE COAT CHRYSLER LLC STANDARD RFP# 42583 PLAT BECK.
- 3) STENCIL 1/2" HIGH LETTERS AS SHOWN USING CHRYSLER LLC STANDARD WHITE INK FOR POROUS AND NON-POROUS SURFACES.
- 4) ALL WELD JOINTS NOT SPECIFIED SHOULD BE .18 CONTINUOUS.
- 5) FIRST TOOLED PRODUCTION RACK MUST BE APPROVED BY PROGRAM MANAGEMENT SUPPLIER PRIOR TO PRODUCTION START UP.
- 6) ALL PRODUCTION RACKS MUST BE COMPLETELY FREE OF THE FOLLOWING:
ALL SHARP CORNERS AND EDGES, BURRS, RUST AND EXCESSIVE WELD SPATTER.
- 7) FABRICATOR TO USE GRADE 5 HEX HD. CAP SCREWS AND CAP NUTS. ALL SCREWS AND NUTS MUST BE PROTECTIVELY OILED UNLESS OTHERWISE SPECIFIED ON THE PRINTS.
- 8) ALL FASTENERS MUST BE PLATED.
- 9) ALL STAINLESS STEEL REQUIRED ON THE RACK IS TO BE WELDED AFTER THE RACK HAS BEEN COMPLETELY PAINTED AND MUST BE PAINT FREE.
- 10) ALL ZERK FITTINGS ARE TO BE GREASED PRIOR TO RACK SHIPMENT.
- 11) ALL ITEMS NOT SUPPLIED BY CHRYSLER LLC ARE THE RACK FABRICATORS RESPONSIBILITY.
- 12) () DENOTES CRITICAL CHARACTERISTICS. ALL DIMENSIONS NOTED BY THIS SYMBOL MUST BE INSPECTED AND RESULTS DOCUMENTED BY RACK SEQUENCE NUMBER.

		RICHFIELD INDUSTRIES	
TITLE:		SWIVEL BEARING ASSY WITH MOUNTING BRACKETS	
SHEET NO.	OF	DATE	OF
NAME	SIGNATURE	CHECKED	DATE
PART # 1: DESCRIPTION	34.07	PART # 2: REV	2
PART # 3: REV	3	PART # 4: REV	7
DPMO SET DATE: 11/24/2016		2016-11-24	



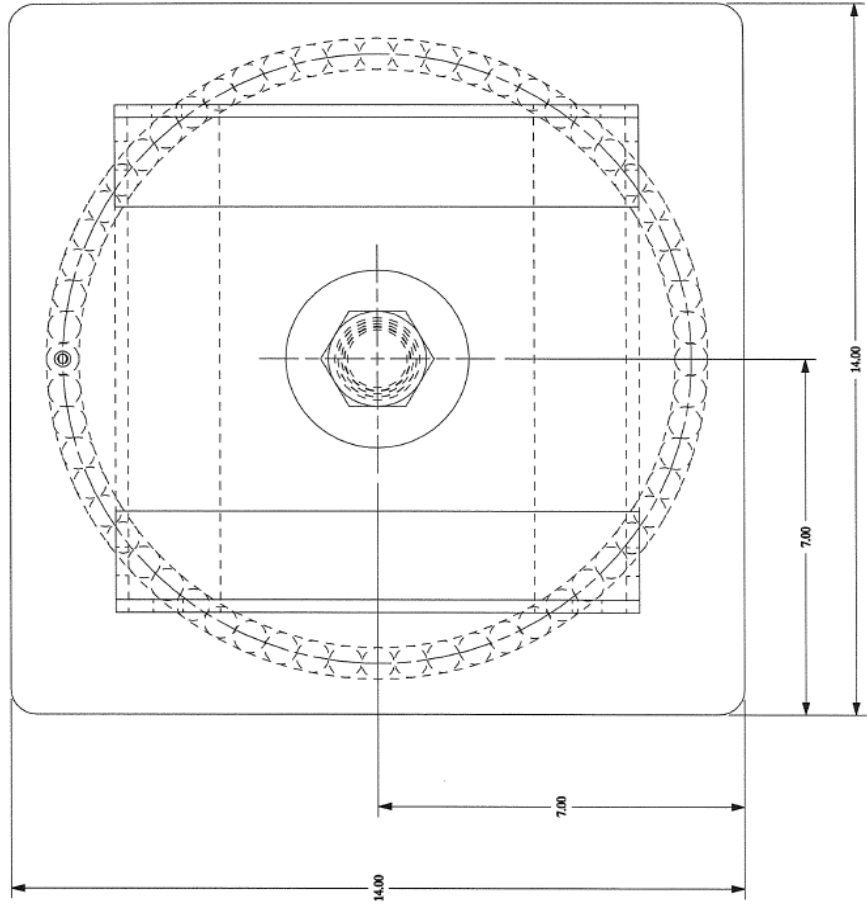
RICHFIELD INDUSTRIES		RICHFIELD INDUSTRIES	
TITLE: SWIVEL BEARING ASSY WITH MOUNTING BRACKETS		RIT: 3 OF 7	
DRAWN: JKC / 4-2-98		CHECKED: JKC / 4-17-98	
SCALE: ANGULAR = 1/2		DATE: JUN - 1 - 98	
PROJECT: 37847		DWG. SET FILE: 132.GXD	

RIGHT END ELEVATION



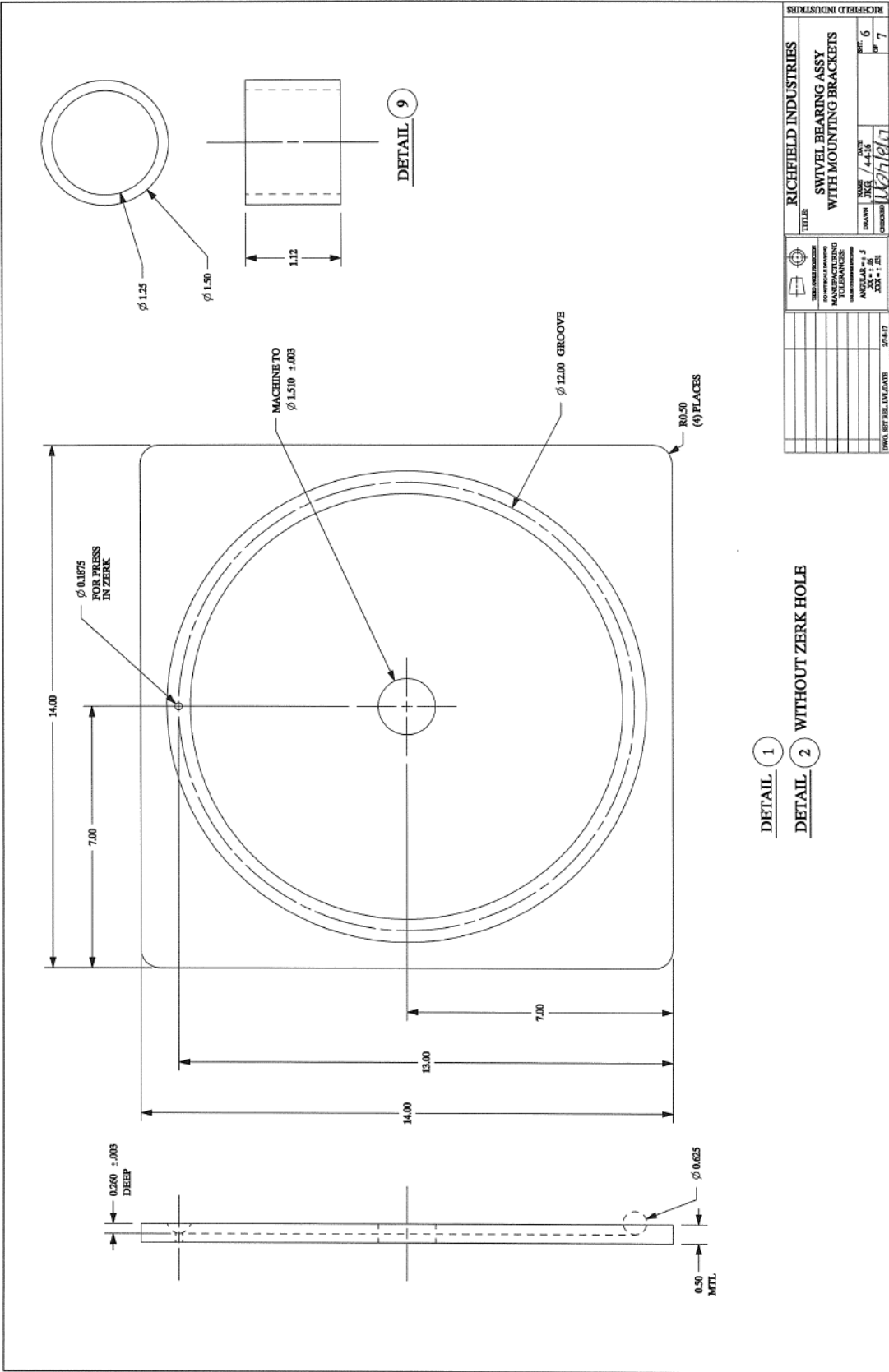
RICHFIELD JOB NUMBER: 6001

RICHFIELD INDUSTRIES		DATE	10/17/17	DWG. NO.	17
TITLE		DRW	4	SHEET	4
SWIVEL BEARING ASSY WITH MOUNTING BRACKETS		CHECKED			7
RICHFIELD INDUSTRIES MANUFACTURING, INC. 2500 W. 100th St. Minnetonka, MN 55345		PROJ. MGR.	27437		



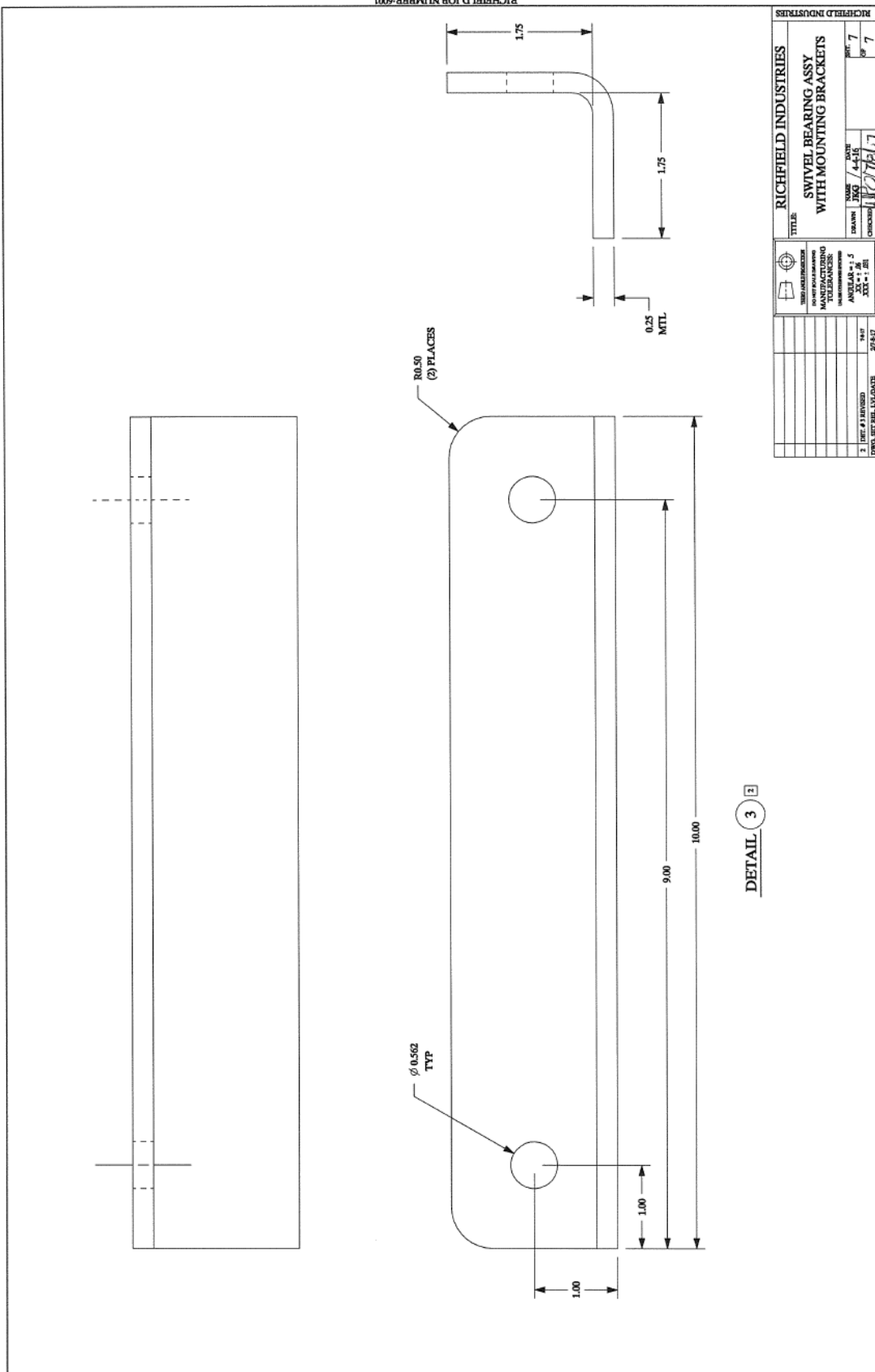
PLAN VIEW

RICHFIELD INDUSTRIES	
TITLE SWIVEL BEARING ASSY WITH MOUNTING BRACKETS	
DATE 4-4-16	DRW 5
CHECKED [Signature]	APP 7
INDUSTRIAL MANUFACTURING TOURS ANGLE # 5 XX + 18 XX + 18	
DWG SET DEL. DATE 2/4/17	



DETAIL 1
 DETAIL 2 WITHOUT ZERK HOLE

RICHFIELD INDUSTRIES		RICHFIELD INDUSTRIES	
TITLE: SWIVEL BEARING ASSY WITH MOUNTING BRACKETS		DATE: 4-2-65	DR: 6
DESIGNED BY: [Signature]	CHECKED BY: [Signature]	FRANK: [Signature]	DATE: 4-2-65
MATERIALS: ANGLE: 1/2" X 1/2" X 1/8" 303 S.S.		DWG. BY: [Signature]	



RICHFIELD JOB NUMBER: 001

MHA-003LH	
Customer Number	
Name	Torsion Springs LH
Material	Spring Steel
Tool Location	Outsourced
Drawing Location	
Aprox.Pricing	Trial \$30.00ea. / Prod \$8.00ea.
Application	Shelf Racks - Spring Assist for Lids.

PROPRIETARY



MHA - Materials Handling Associates

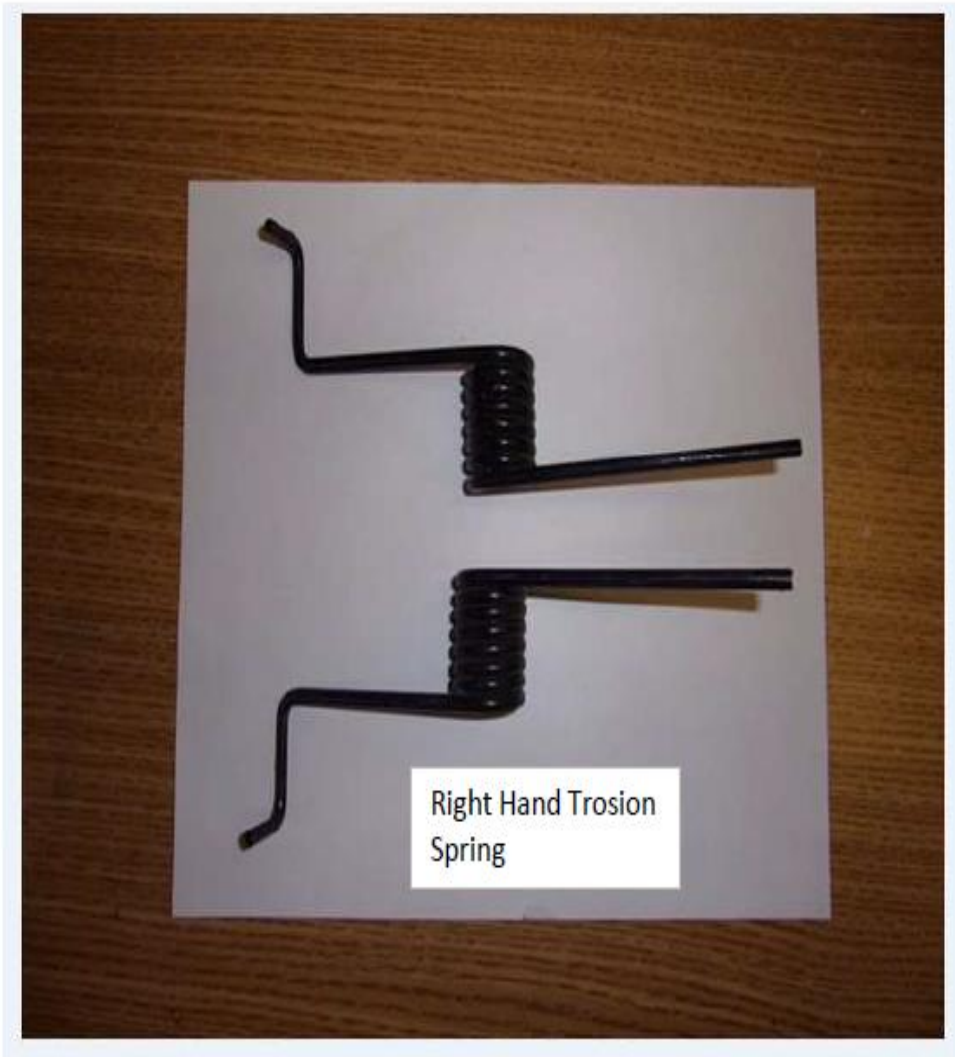


MHA-003RH	
Customer Number	
Name	Trosion Spring RH
Material	Spring Steel
Tool Location	Outsourced
Drawing Location	
Aprox.Pricing	Trial \$30.00ea. / Prod \$8.00ea.
Application	Shelf Racks - Spring Assist for Lids.

PROPRIETARY



MHA - Materials Handling Associates



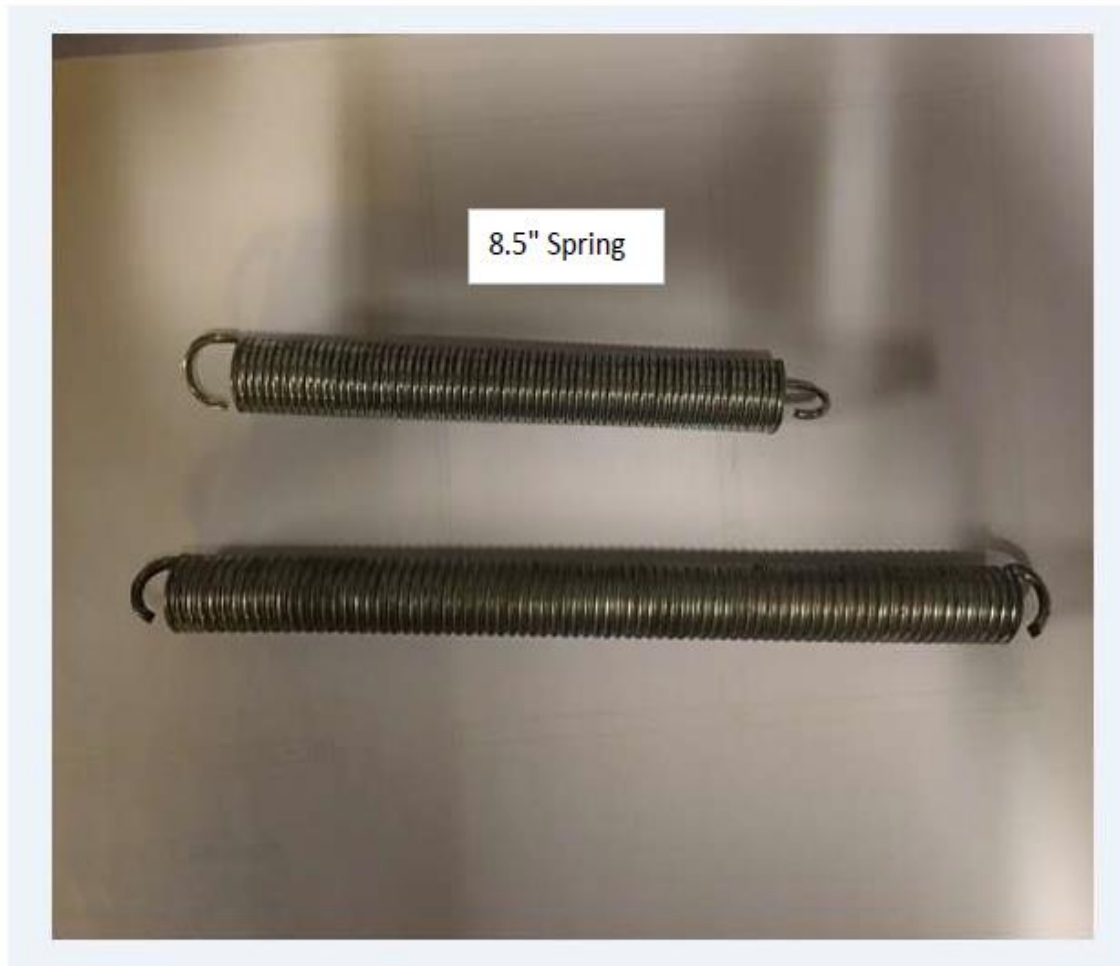
MHA-004 x 8.50 Inch	
Customer Number	
Name	Extension Spring x 8.5" Long
Material	Spring Steel
Tool Location	Outsourced
Drawing Location	
Aprox.Pricing	Trial \$8.00ea. / Prod \$3.00ea.
Application	Shelf Racks - Spring Assist for Shelves.



PROPRIETARY



MHA - Materials Handling Associates

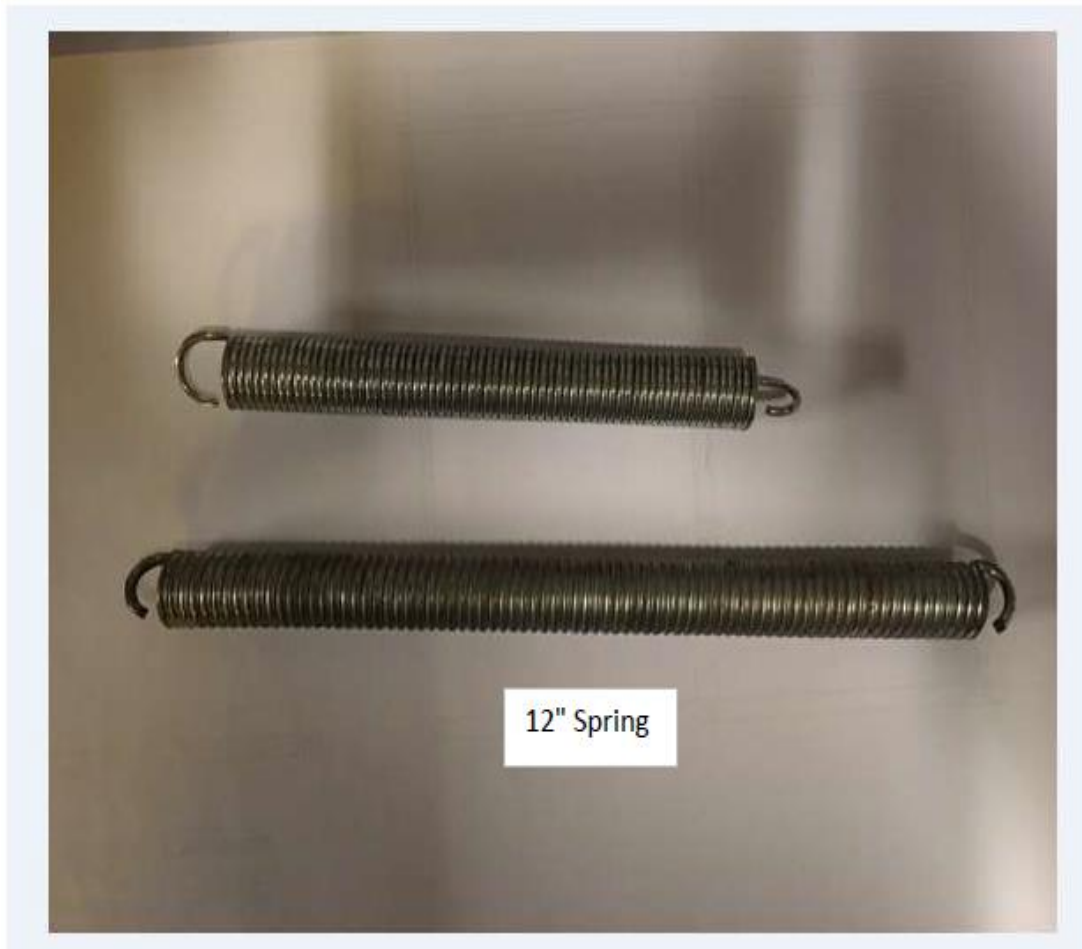


MHA-004 x 12.00 Inch	
Customer Number	
Name	Extension Spring x 12" Long
Material	Spring Steel
Tool Location	Outsourced
Drawing Location	
Aprox.Pricing	Trial \$8.00ea. / Prod \$3.00ea.
Application	Shelf Racks - Spring Assist for Shelves.

PROPRIETARY

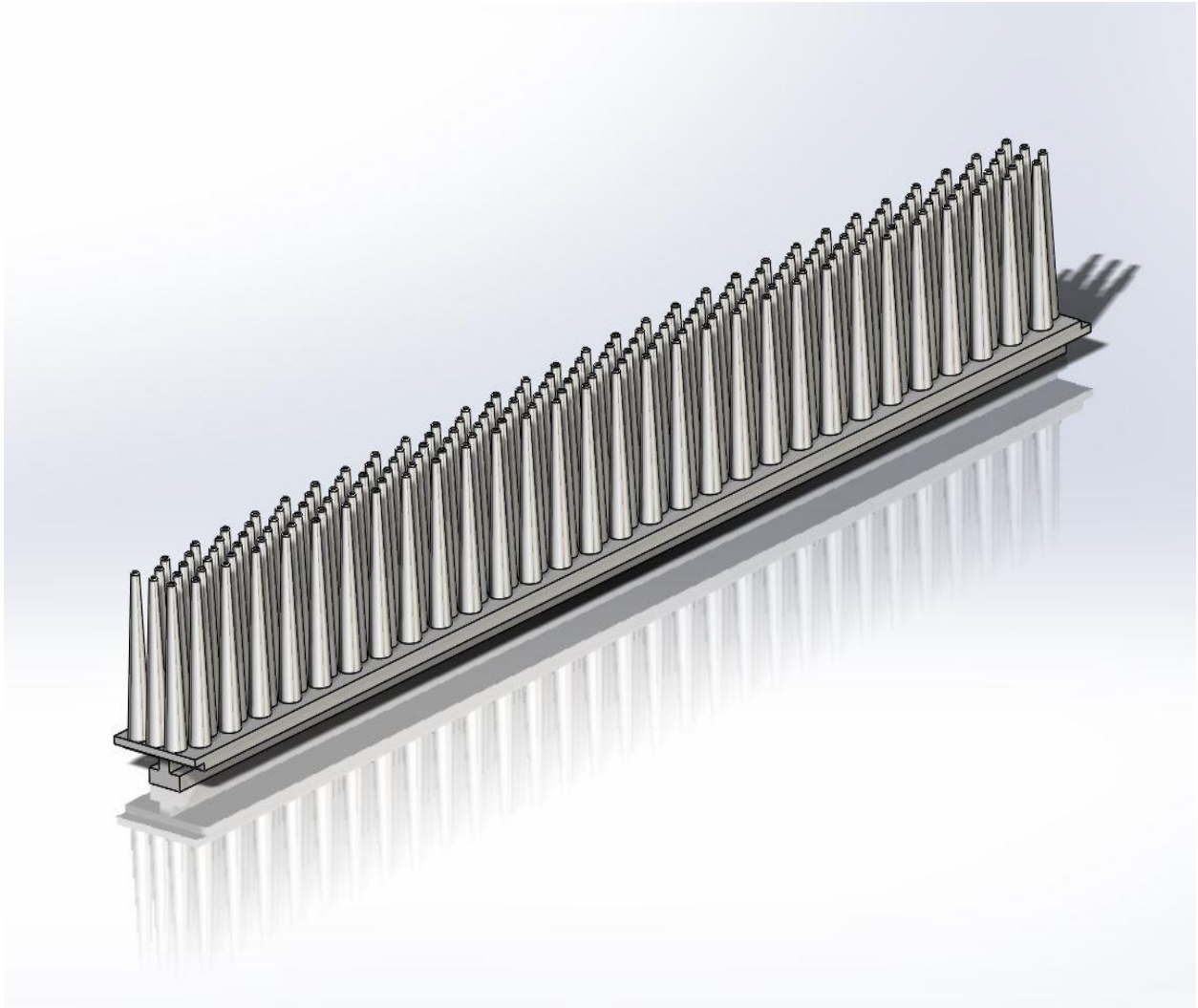


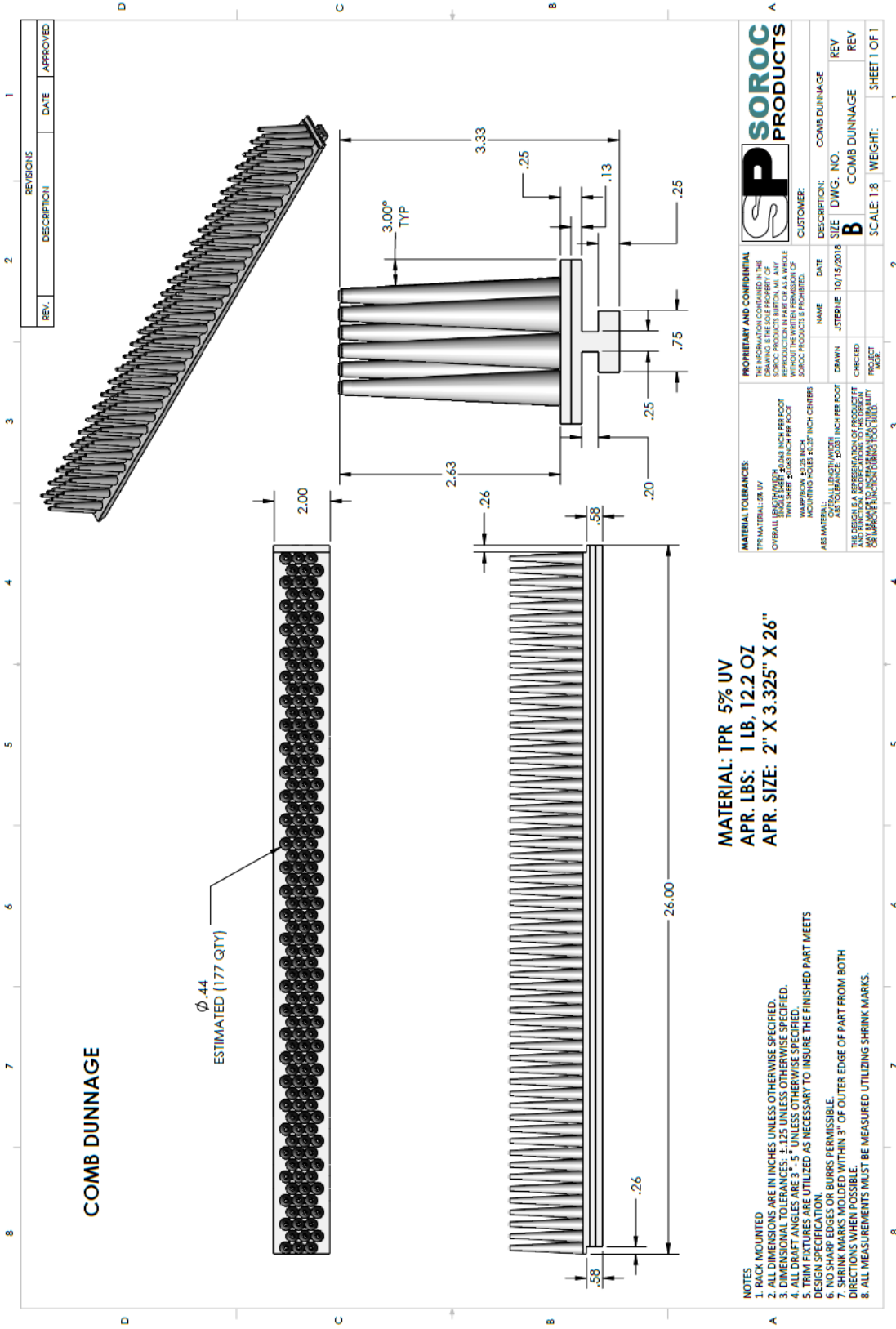
MHA - Materials Handling Associates





COMB DUNNAGE





REV.	DESCRIPTION	DATE	APPROVED

COMB DUNNAGE

Ø .44
ESTIMATED (1177 QTY)

MATERIAL: TPR 5% UV
APR. LBS: 1 LB, 12.2 OZ
APR. SIZE: 2" X 3.325" X .26"

- NOTES**
1. RACK MOUNTED
 2. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
 3. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 4. ALL PART ANGLES ARE 5° UNLESS OTHERWISE SPECIFIED.
 5. TRIM FIXTURES ARE UTILIZED AS NECESSARY TO INSURE THE FINISHED PART MEETS DESIGN SPECIFICATION.
 6. NO SHARP EDGES OR BURRS PERMISSIBLE.
 7. SHRINK MARKS MOLDED WITHIN 3" OF OUTER EDGE OF PART FROM BOTH DIRECTIONS WHEN POSSIBLE.
 8. ALL MEASUREMENTS MUST BE MEASURED UTILIZING SHRINK MARKS.

MATERIAL TOLERANCES:
 TYPE MATERIAL: SEE UV
 OVERALL LENGTH: ±.010 INCH PER FOOT
 OVERALL WIDTH: ±.005 INCH PER FOOT
 THIN WALL: ±.003 INCH PER FOOT
 WARP/BOW: ±.002 INCH
 MOUNTING HOLES: ±.025 INCH CIRCLES

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PROPRIETARY AND CONFIDENTIAL

SP SOROC PRODUCTS

NAME	DATE	DESCRIPTION	COMB DUNNAGE
JETERNE	10/15/2018	SIZE DWG. NO.	REV
		B	COMB DUNNAGE
			REV

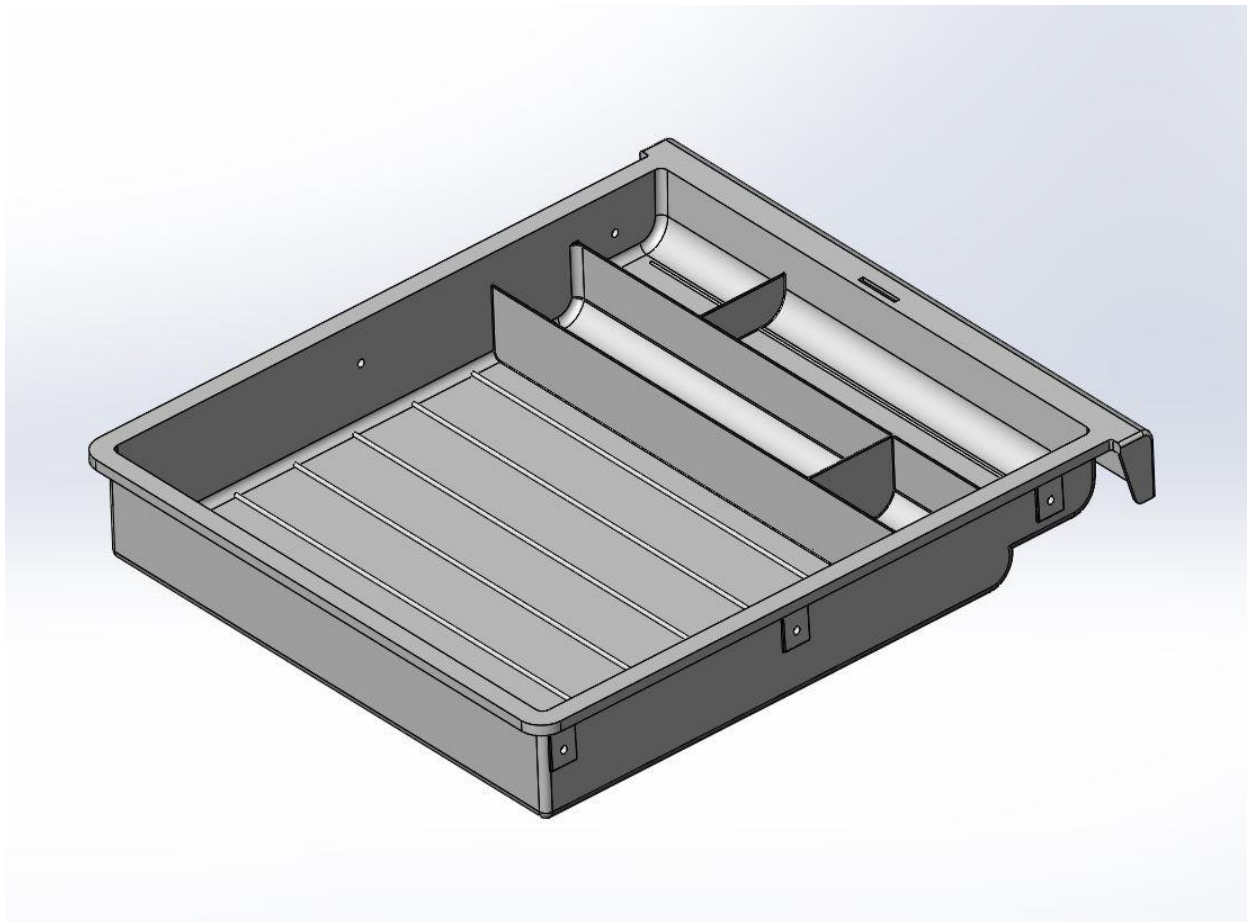
CUSTOMER: _____

SCALE: 1:8 WEIGHT: _____ SHEET 1 OF 1

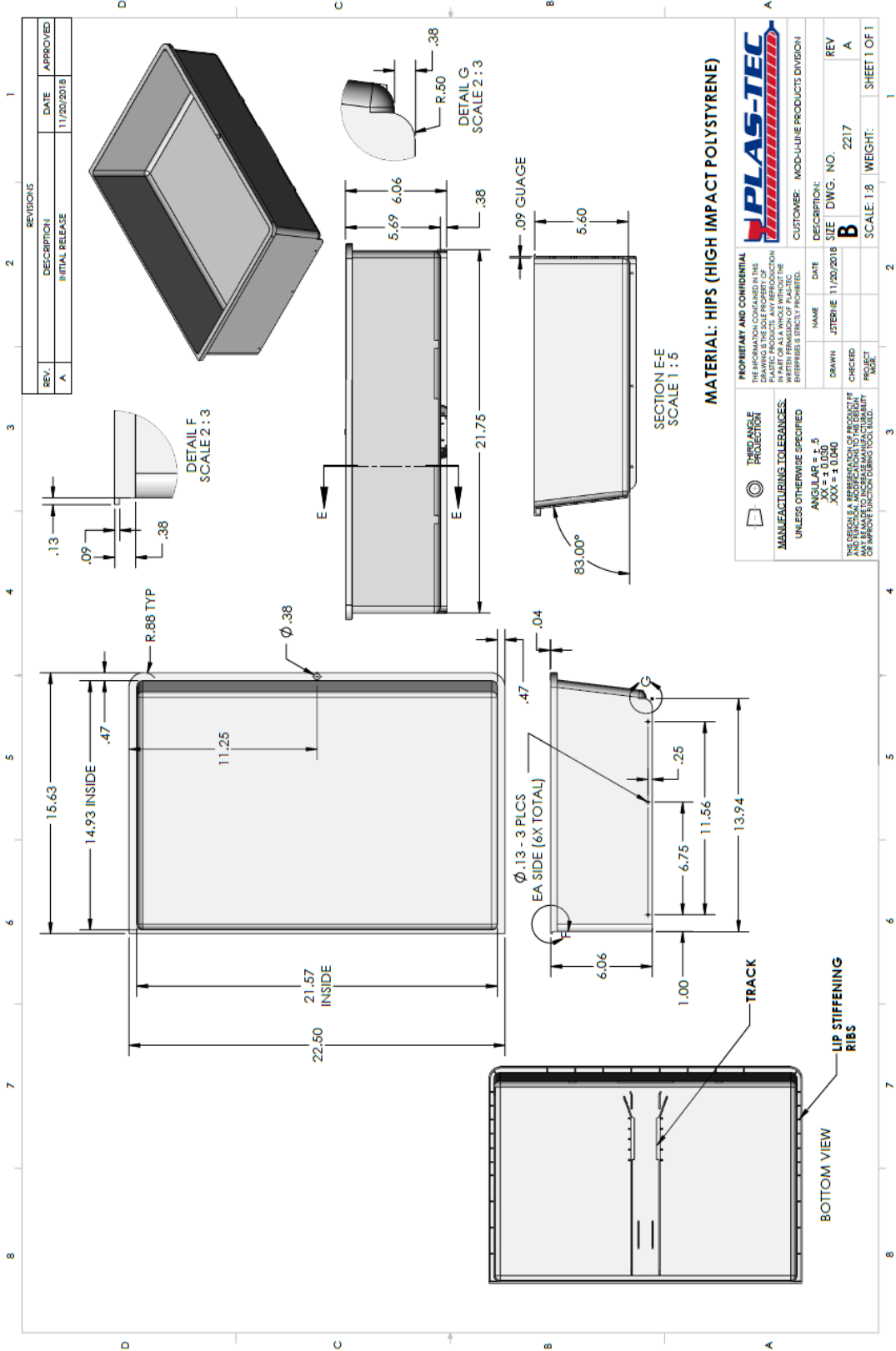
UNCONTROLLED WHEN PRINTED OR IN PDF FORM

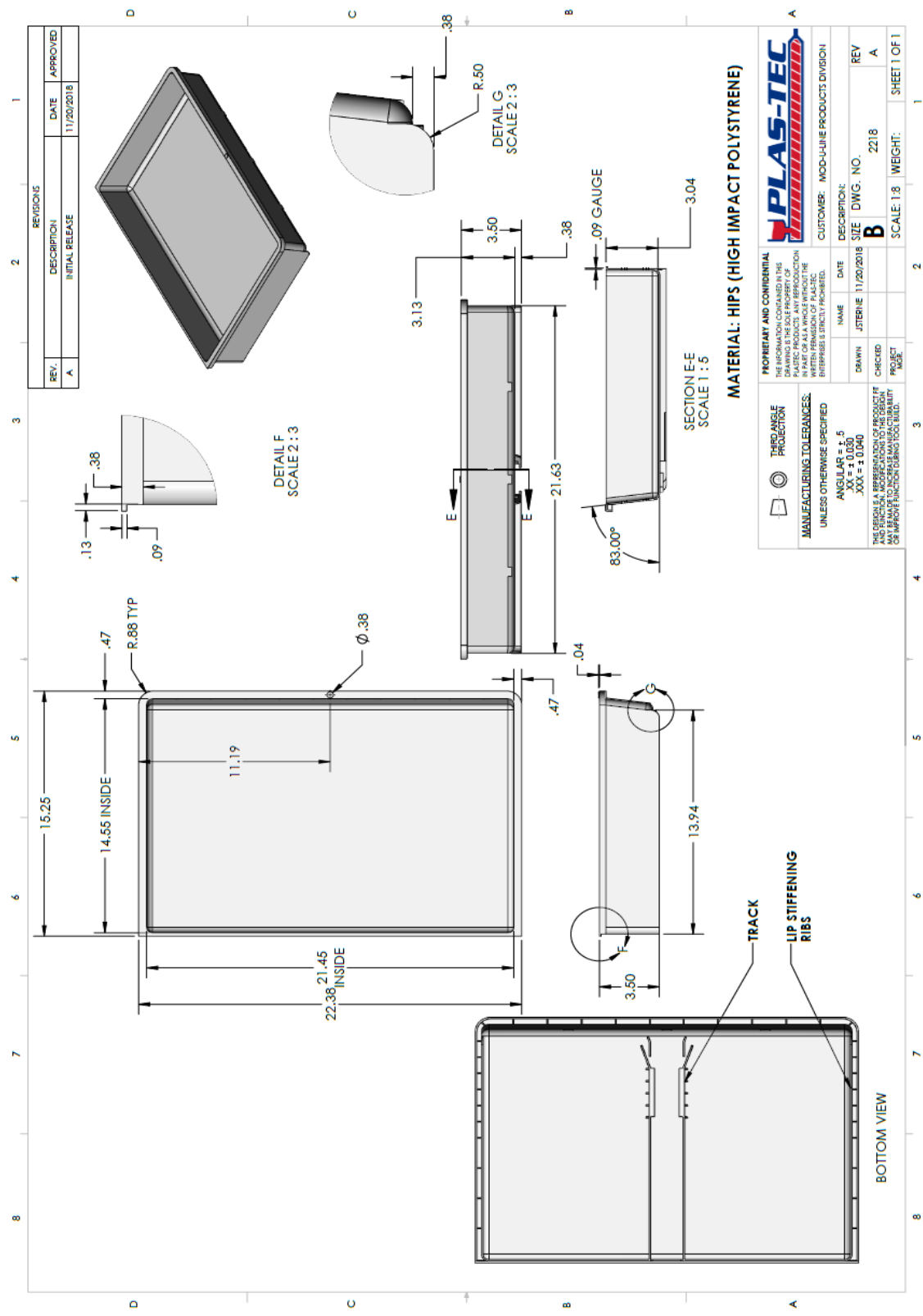
MOD – U – LINE SHELVES

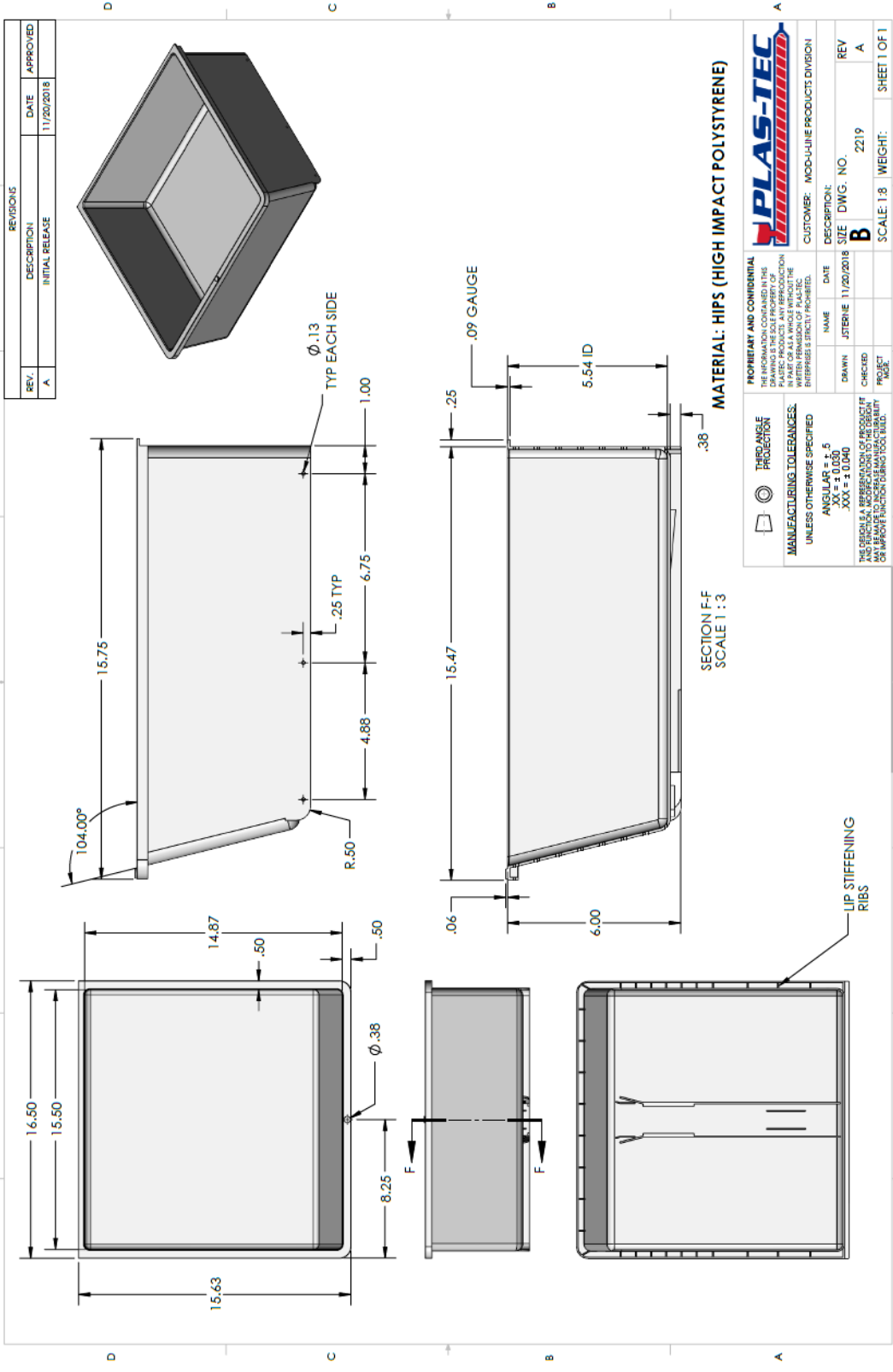
See PDF's on following pages



NAME	DIM. OD	DIM. ID
2217	6.06 X 15.63 X 22.50	5.60 X 14.93 X 21.57
2218	3.50 X 15.25 X 22.38	3.04 X 14.55 X 21.45
2219	6.06 X 15.75 X 16.50	5.54 X 14.87 X 15.50
2298	4.38 X 18.00 X 20.19	3.91 X 17.07 X 19.42
2299	6.06 X 18.00 X 20.25	5.60 X 17.07 X 19.55
3079	3.50 X 11.50 X 16.38	3.04 X 10.57 X 14.87
3627	6.00 X 15.25 X 28.38	5.54 X 14.59 X 27.45
3738	4.50 X 16.19 X 16.50	4.04 X 14.62 X 15.57
3823	1.50 X 16.50 X 22.50	1.15 X 15.10 X 21.75
3994	3.50 X 8.00 X 19.00	3.04 X 7.07 X 17.37
3995	3.50 X 13.00 X 18.13	3.04 X 12.07 X 17.37
9334	2.56 X 15.88 X 17.88	2.47 X 14.82 X 16.27







REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/20/2018	

1 2 3 4 5 6 7 8

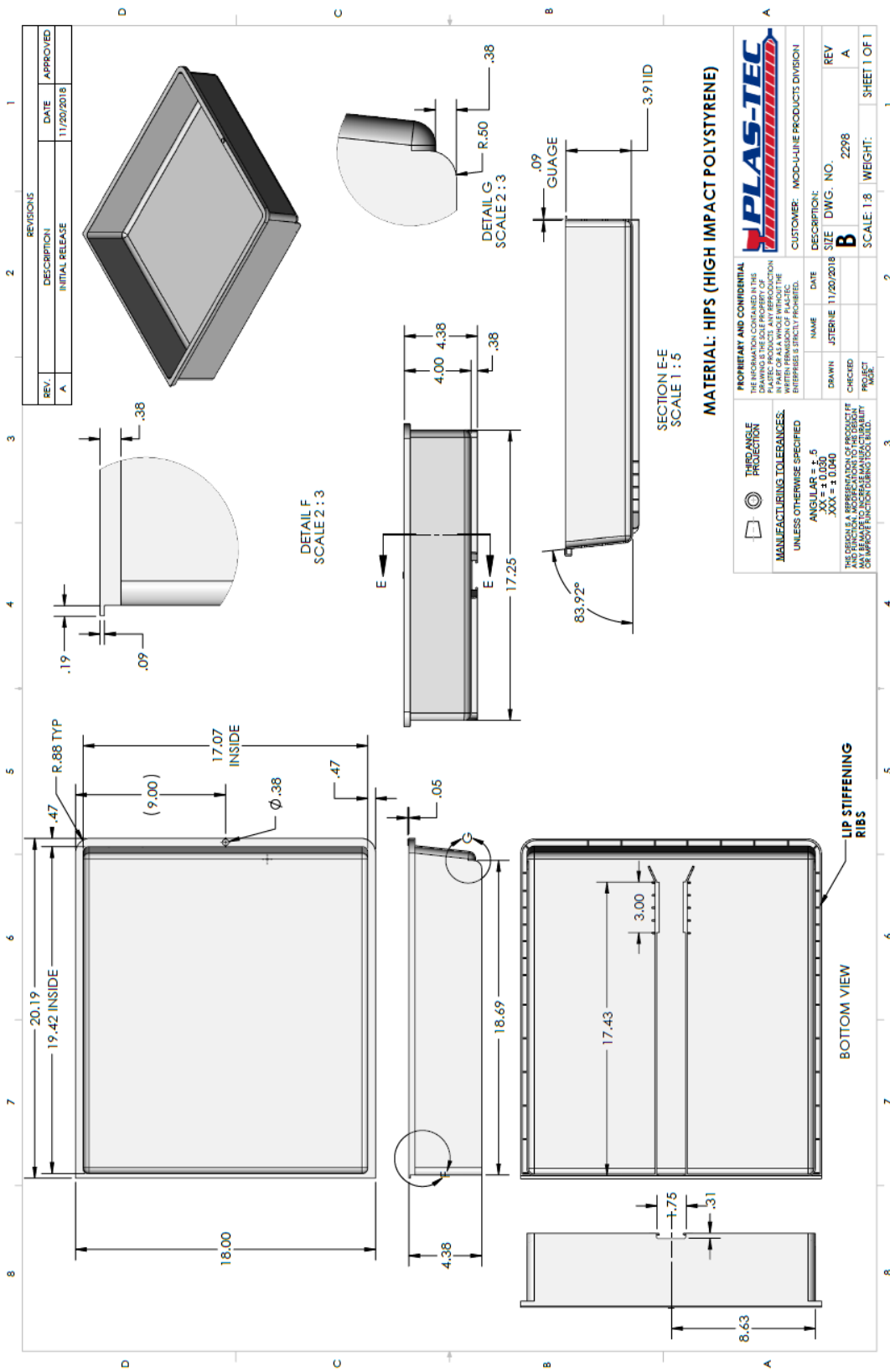
D C B A

SECTION F-F
SCALE 1 : 3

MATERIAL: HIPS (HIGH IMPACT POLYSTYRENE)

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MANUFACTURING TOLERANCES: UNLESS OTHERWISE SPECIFIED: ANGULAR = ± 0.5 DIM = ± 0.040	
THE DESIGN IS A REPRESENTATION OF PRODUCT FIT AND FUNCTION. ADJUSTMENT TO THE DESIGN OR IMPROVE FUNCTION DURING TOOL BUILD.	
NAME	DATE
JSTERNE	11/20/2018
DRAWN	CHECKED
SIZE	PRODUCT
DWG. NO.	REV
2219	A
SCALE: 1:8	WEIGHT:
	SHEET 1 OF 1

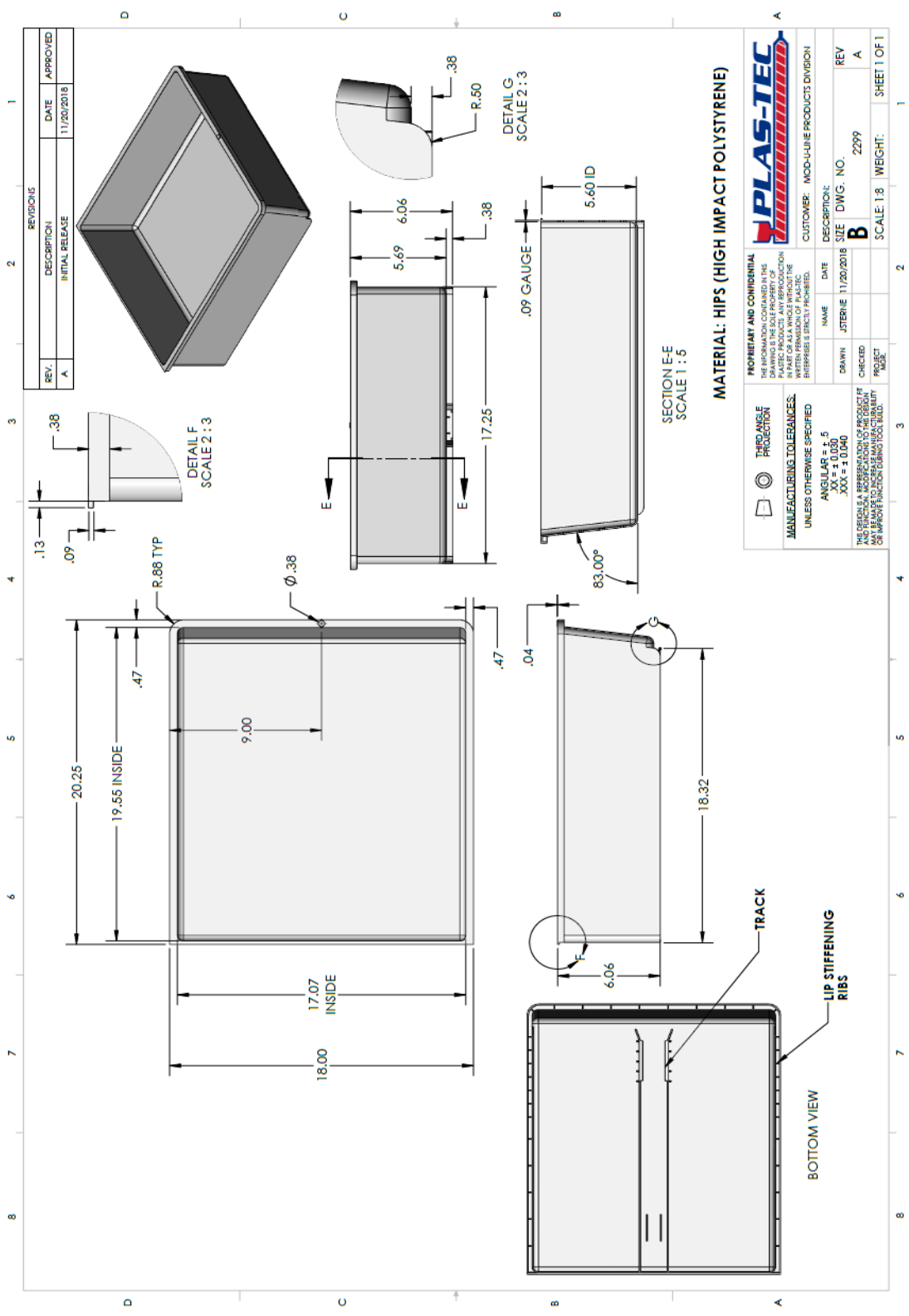
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/20/2018	

PLAS-TEC		CUSTOMER: MOD-ULINE PRODUCTS DIVISION	
DESCRIPTION:		DATE:	REV:
SIZE: DWG. NO.		11/20/2018	A
DRAWN: JETERIE		CHECKED:	SCALE: 1:8
PROJECT:		MODE:	WEIGHT:
NAME:		DATE:	SHEET 1 OF 1
JETERIE		11/20/2018	
ANGULAR: ± .5		THE ORIGINAL REPRESENTATION OF PRODUCT FORM AND FIT SHALL BE THE AUTHORITY IN THE EVENT OF A DISCREPANCY OR AMBIGUOUS DIMENSIONAL LABEL.	
XX ± 0.030			
XXX ± 0.040			

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THIRD ANGLE PROJECTION

MANUFACTURING TOLERANCES:
ANGULAR = ± 5
XX = ± 0.030
XXX = ± 0.040

UNLESS OTHERWISE SPECIFIED

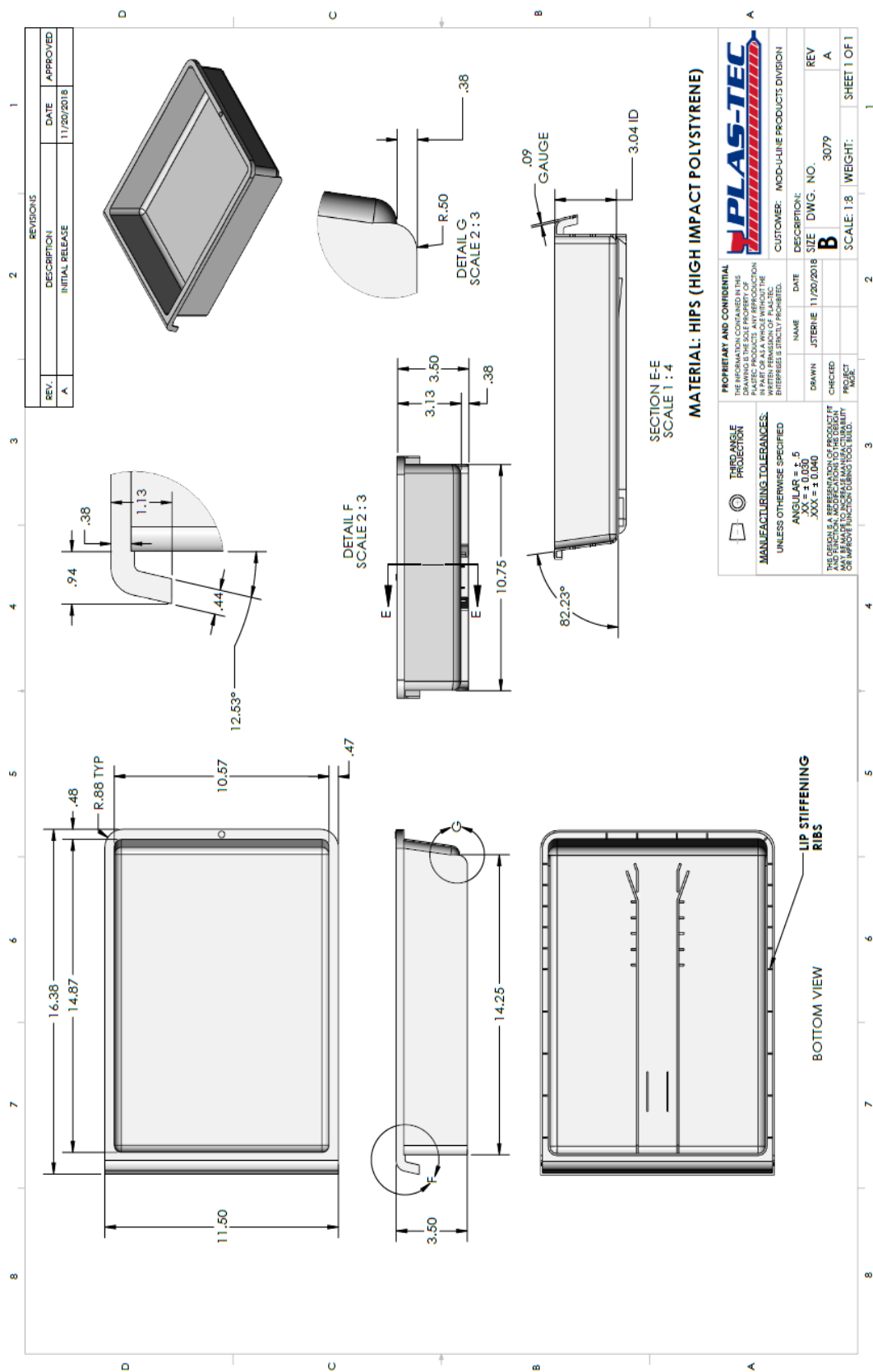
THIS DRAWING IS A REPRESENTATION OF PRODUCT AS MANUFACTURED. IT MAY BE SUBJECT TO CHANGE WITHOUT NOTICE OR WITHOUT NOTICE DURING TOOL BUILD.

NAME	DATE	DESCRIPTION
JETERIE	11/20/2018	SIZE DWG. NO. 2299

CUSTOMER: MOD-LINE PRODUCTS DIVISION

REV	SCALE	WEIGHT	SHEET 1 OF 1
A	1:8		

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MANUFACTURING TOLERANCES:
 UNLESS OTHERWISE SPECIFIED
 ANGULAR ± .5
 .XX = ± 0.030
 .XXX = ± 0.040

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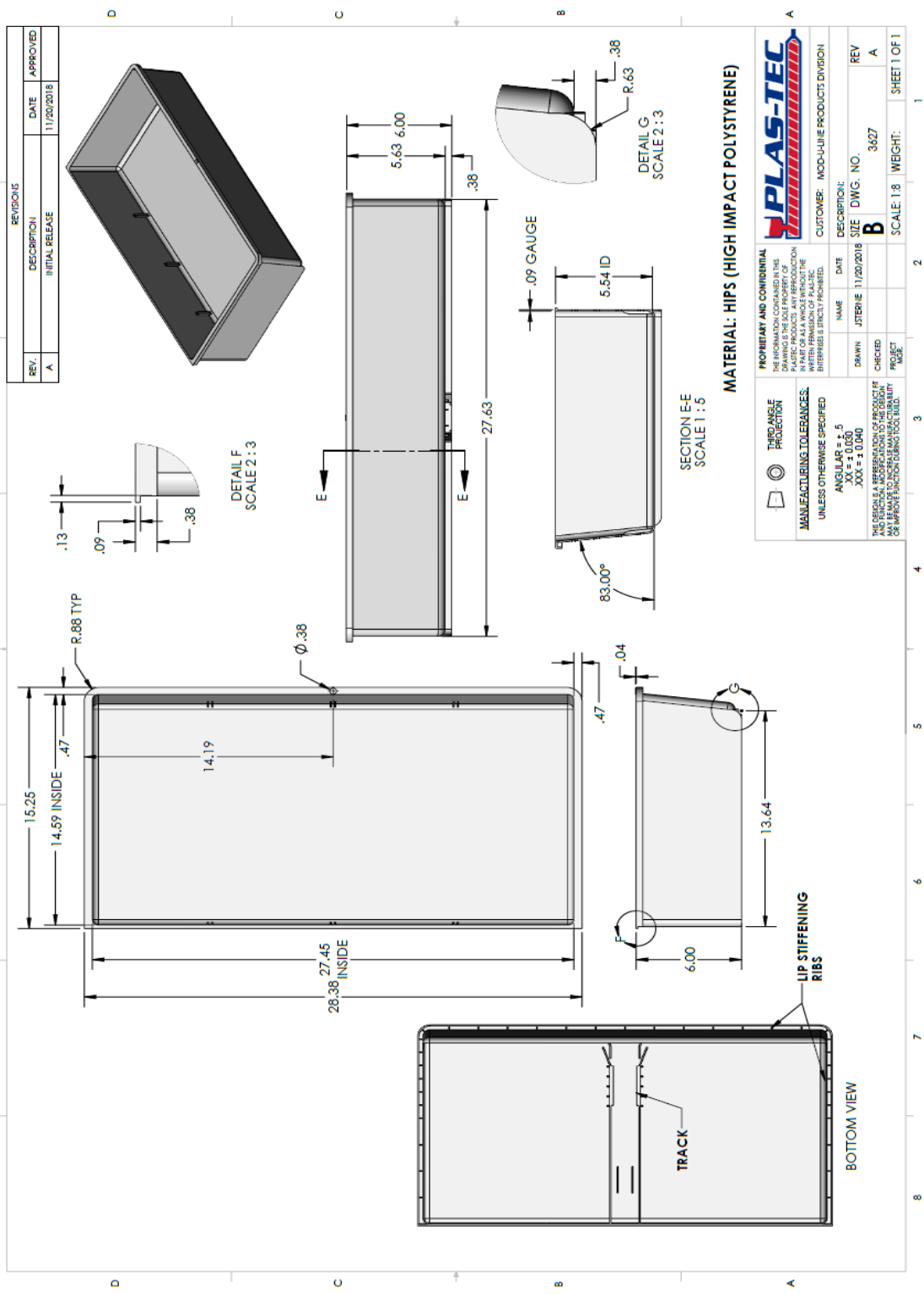
NAME	JTBRIE	DATE	11/20/2018
DESCRIPTION	MOD-LINE PRODUCTS DIVISION		
SIZE	B	DWG. NO.	3079
CHECKED		PROJECT	
SCALE	1:8	WEIGHT:	SHEET 1 OF 1

MATERIAL: HIPS (HIGH IMPACT POLYSTYRENE)

SECTION E-E
SCALE 1 : 4

LIP STIFFENING RIBS

BOTTOM VIEW



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/20/2018	

MATERIAL: HIPS (HIGH IMPACT POLYSTYRENE)

PLAS-TEC

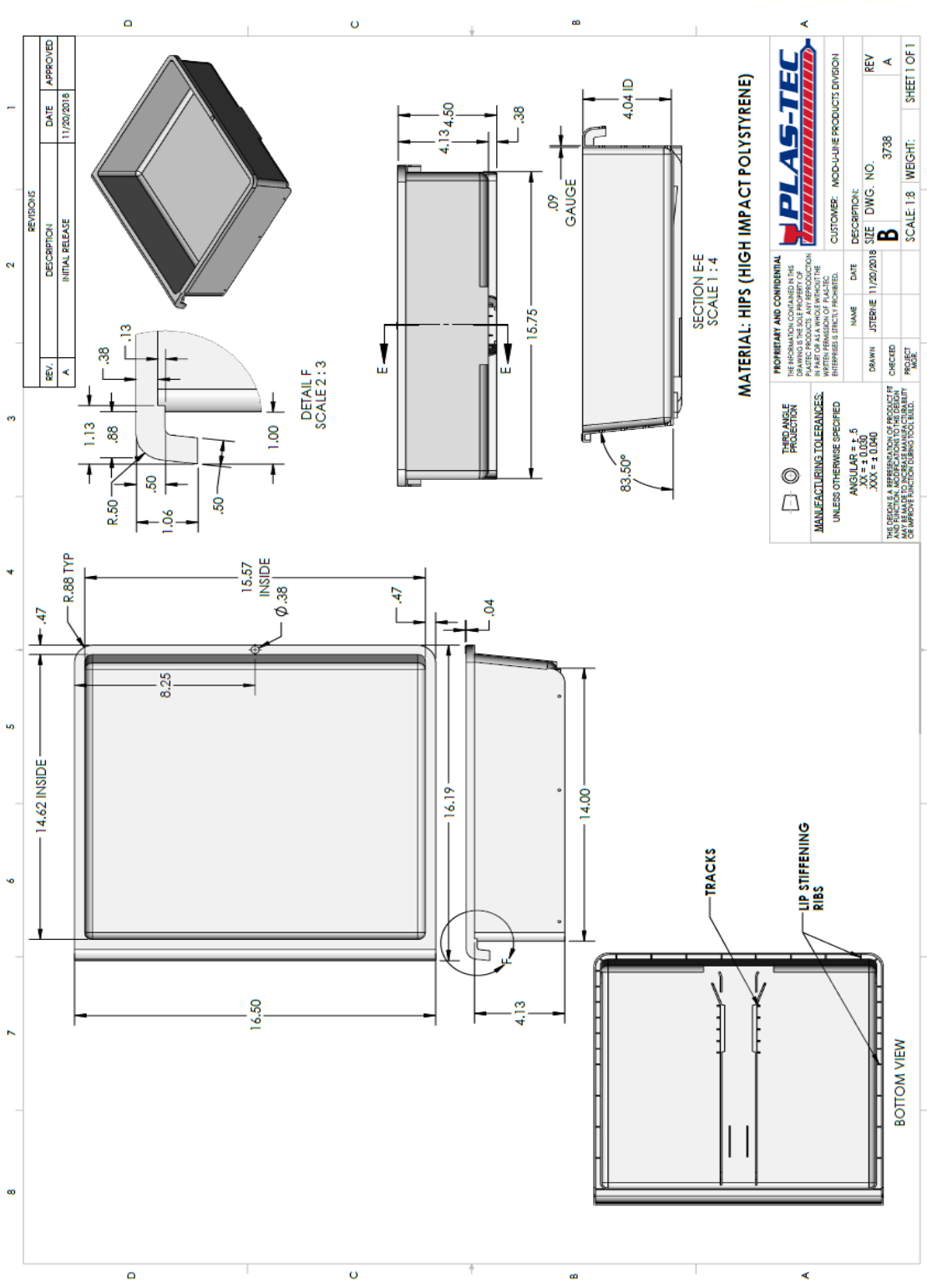
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THIRD ANGLE PROJECTION	NAME	DATE	DESCRIPTION
MANUFACTURING TOLERANCES: UNLESS OTHERWISE SPECIFIED	STERILE	11/20/2018	SIZE DWG. NO.
ANGULAR = ± .5	DRAWN		B
XXX = ± 0.030	CHECKED		3627
XXX = ± 0.040	PROJECT		A

THE ORIGINAL REPRESENTATION OF PRODUCT OR PROJECT MAY BE MADE TO CORRECT MANUFACTURING OR IMPORT FUNCTION DURING TOOL BUILD.

SCALE: 1:8 WEIGHT: SHEET 1 OF 1

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/20/2018	

MATERIAL: HIPS (HIGH IMPACT POLYSTYRENE)

SECTION E-E
SCALE 1:4

PLAS-TEC

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THIRD ANGLE PROJECTION
MANUFACTURING TOLERANCES:
UNLESS OTHERWISE SPECIFIED
ANGLES = .5
XXX = ± 0.30
XXX = ± 0.040

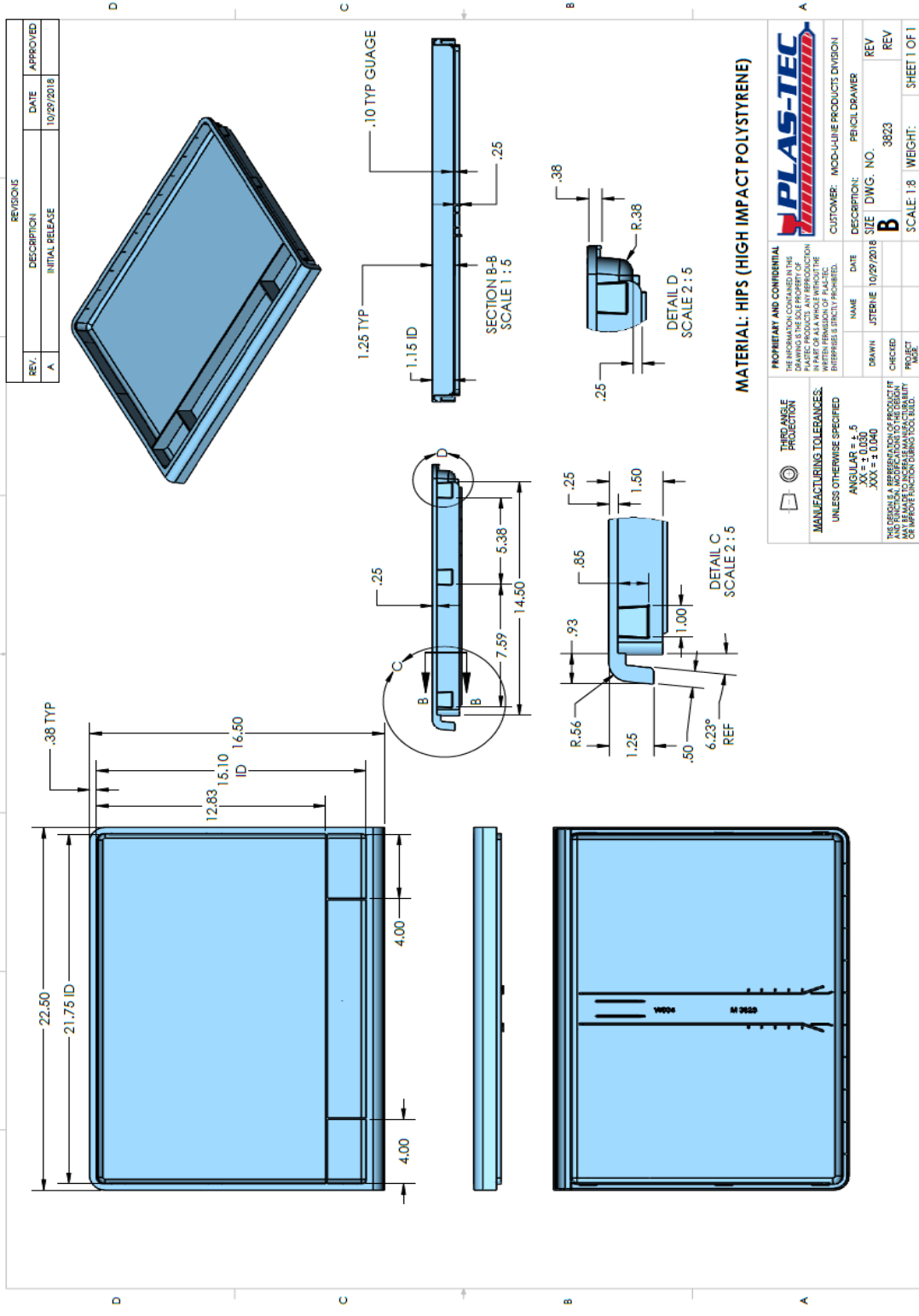
THE DESIGN IS A REPRESENTATION OF PRODUCT FIT AND FUNCTION. MODIFICATION TO THE DESIGN FOR IMPROVE FUNCTION DURING TOOL BUILDUP IS PROHIBITED.

CUSTOMER: MOD-LINE PRODUCTS DIVISION

NAME	DATE	DESCRIPTION	REV
JSTERNE	11/20/2018		
DRAWN	CHECKED	SIZE	DWG. NO.
		B	3738

SCALE: 1:8 WEIGHT: SHEET 1 OF 1

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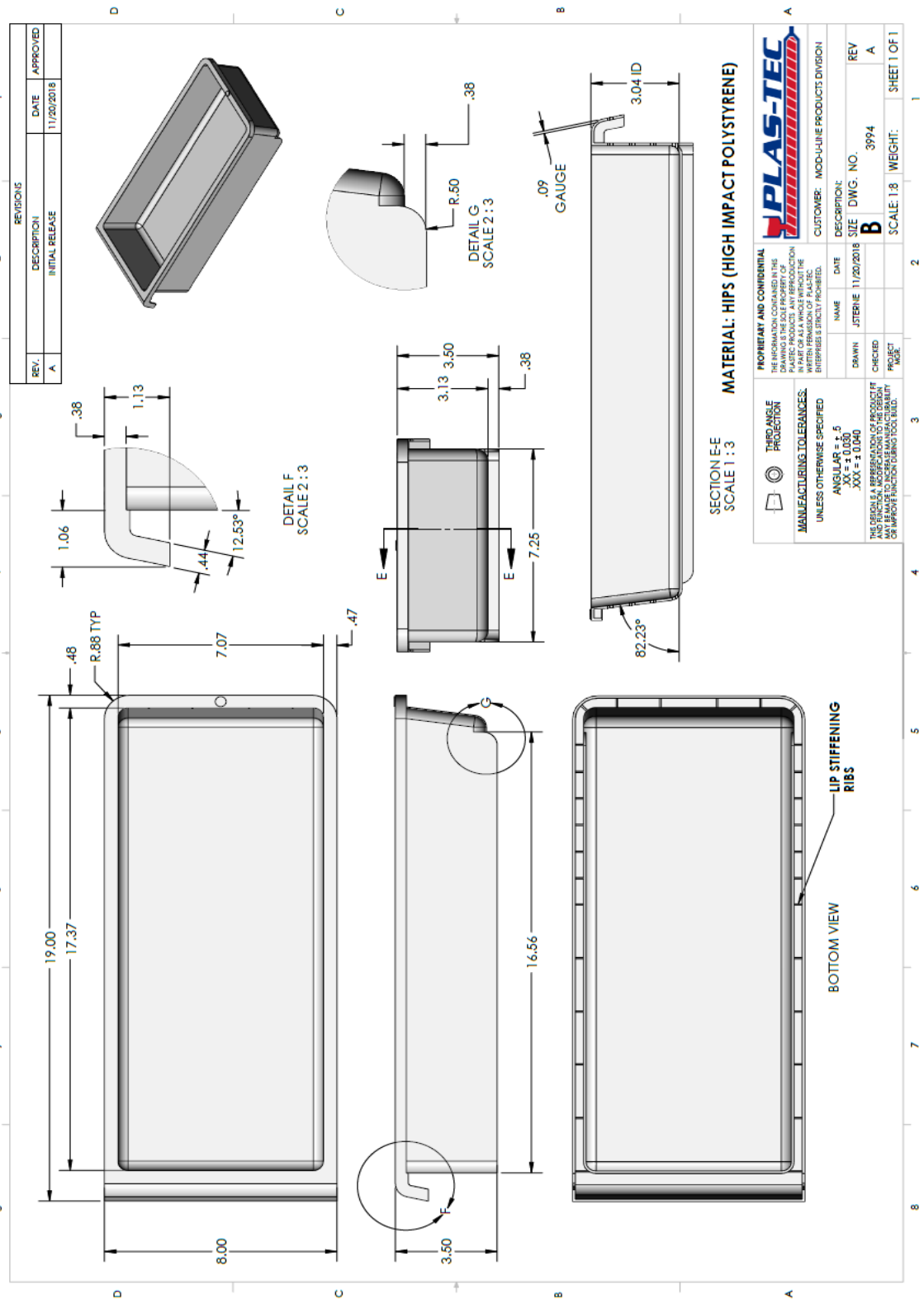


REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	10/29/2018
		APPROVED

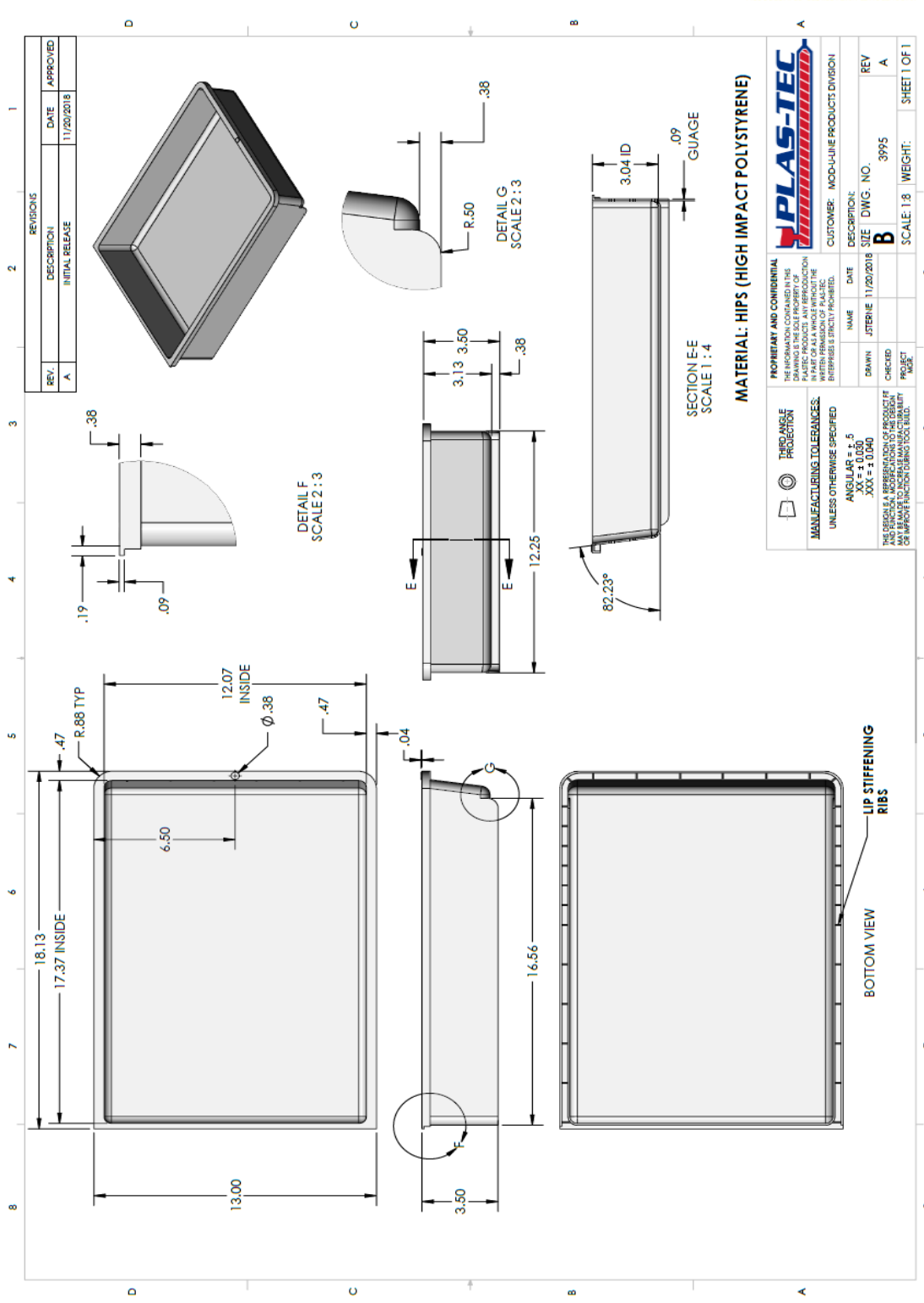
MATERIAL: HIPS (HIGH IMPACT POLYSTYRENE)

		CUSTOMER: MOD-U-LINE PRODUCTS DIVISION	
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UNLESS OTHERWISE SPECIFIED: ANGULAR ± 0.5 DECIMAL ± 0.005 HOLE ± 0.010 TYPICAL TOLERANCES: UNLESS OTHERWISE SPECIFIED: ANGULAR ± 0.5 DECIMAL ± 0.005 HOLE ± 0.010	CHECKED: [blank] PROJECT: [blank]	SCALE: 1:8 WEIGHT: [blank]	SHEET 1 OF 1

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/20/2018	

		CUSTOMER: MODULINE PRODUCTS DIVISION	
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THIS DRAWING IS A REPRESENTATION OF PRODUCT OFF AND SUBJECT TO MODIFICATION WITHOUT NOTICE. THE DRAWING IS FOR INFORMATION ONLY AND IS NOT TO BE USED FOR MANUFACTURING OR IMPROVING FUNCTION DESIGN TOOL BUILD.		NAME DATE JSTERNE 11/20/2018 DRAWN BY CHECKED BY SCALE: 1:8 WEIGHT: SHEET 1 OF 1	

MATERIAL: HIPS (HIGH IMPACT POLYSTYRENE)

SECTION EE
SCALE 1 : 4

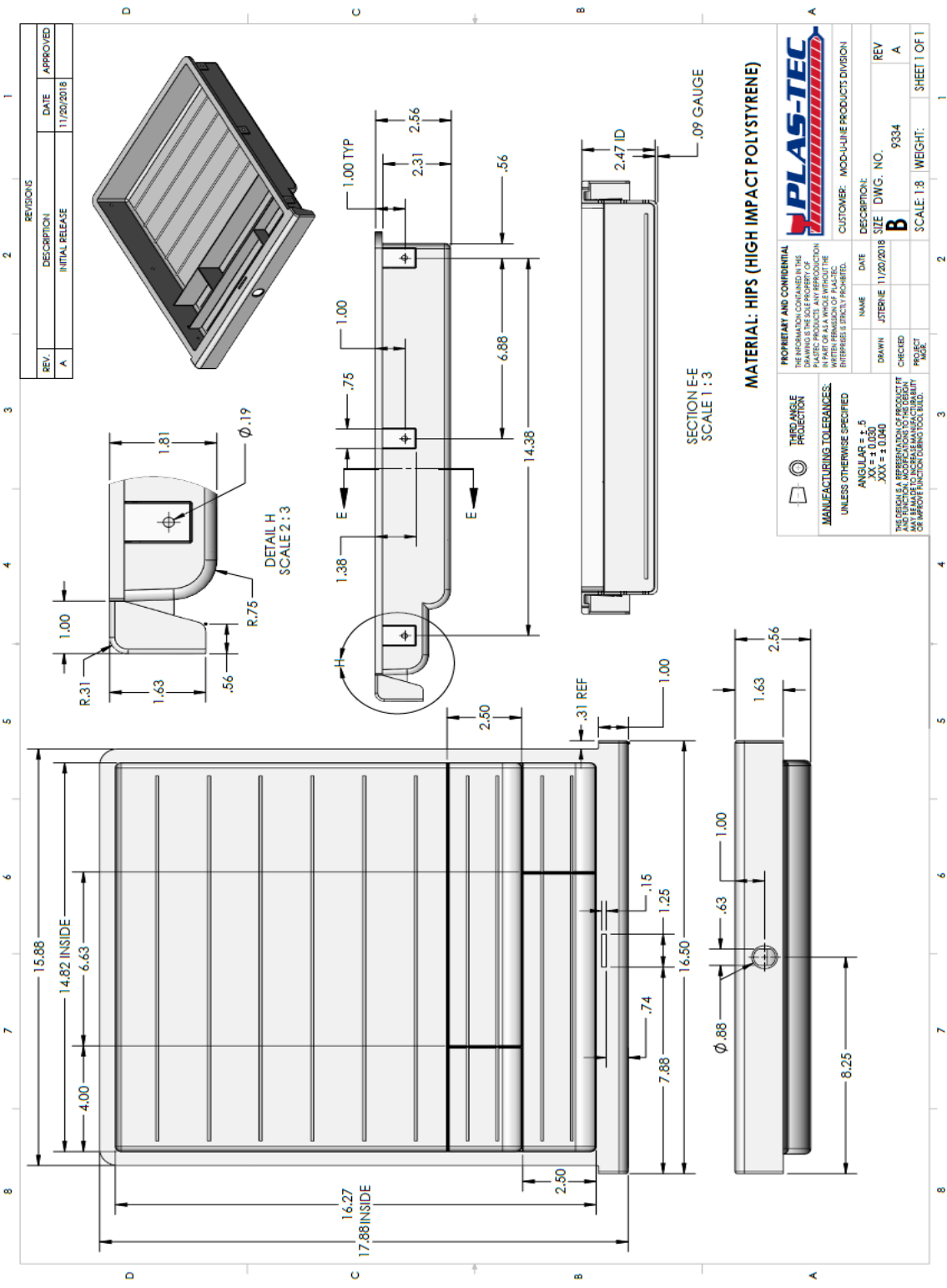
DETAIL F
SCALE 2 : 3

DETAIL G
SCALE 2 : 3

LIP STIFFENING RIBS

BOTTOM VIEW

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REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/20/2018	

REVISIONS		DESCRIPTION		DATE		APPROVED	
REV	A	DESCRIPTION	INITIAL RELEASE	DATE	11/20/2018	APPROVED	

PLAS-TEC		CUSTOMER: MODULINE PRODUCTS DIVISION	
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<small> THIS ANGLE PROJECTION UNLESS OTHERWISE SPECIFIED ANGLE = 5 XXX = 10.040 </small>		CHECKED: [] PROJECT: [] SCALE: 1:8 WEIGHT: [] SHEET 1 OF 1	

SECTION E-E
SCALE 1:3

MATERIAL: HIPS (HIGH IMPACT POLYSTYRENE)



R & R TECHNOLOGIES L.L.C.

Standard Material Handling Products

MHA PHONE: 247-770-4287

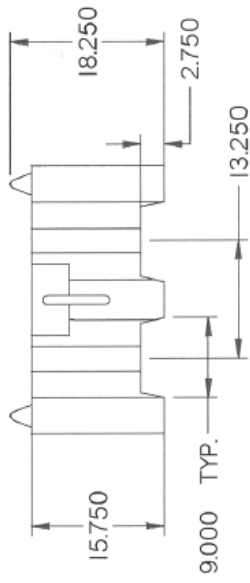
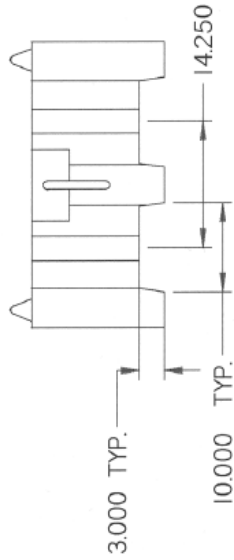
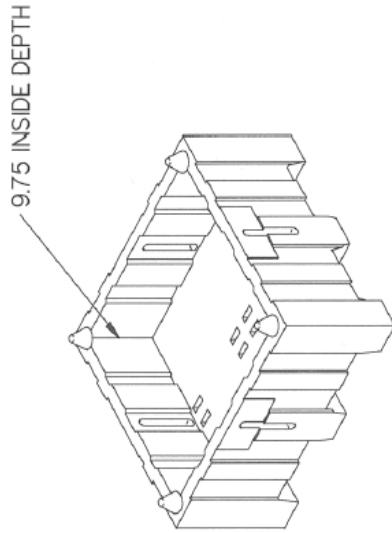
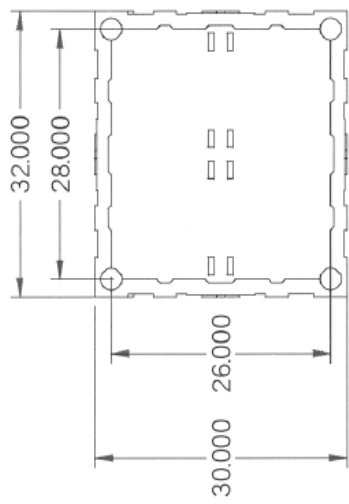
Standards Index


Part Number	Description
Containers	
M-9243-20	30 x 32 x 15.75
M-8577-30	30 x 32 x 19.0
M-9011-50	45 x 32 x 19.0
M-8730-58	45 x 32 x 24.375
M-9185	48 x 48 x 32
M-8827	48 x 54 x 24
M-9048	48 x 68 x 25
Pallets / Covers	
M-8571 / M-8844	30 x 32 Pallet/Cover
M-9213 / M-9214	30 x 32 Fastener Pallet/Cover/Belts
M-8981 / M-9012	32 x 36 Pallet/Cover
M-9081-01	44 x 54 Pallet without Lip
M-9081-02	44 x 54 Pallet with Lip
M-9246 / M-9247	45 x 48 Pallet/Cover
M-9053	48 x 54 Pallet

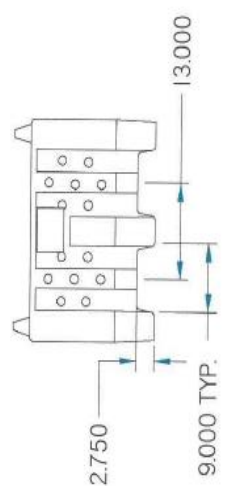
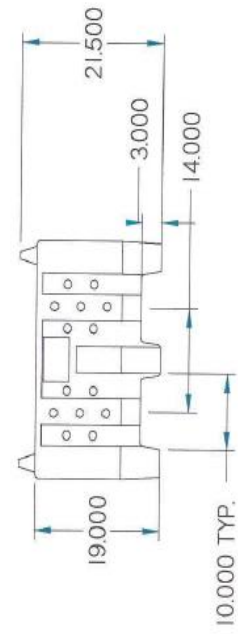
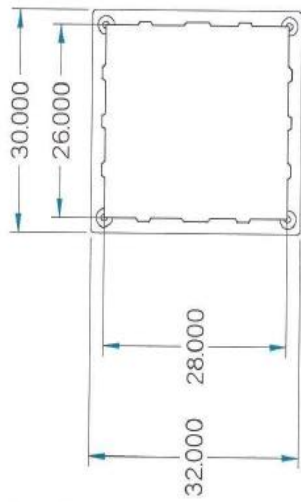
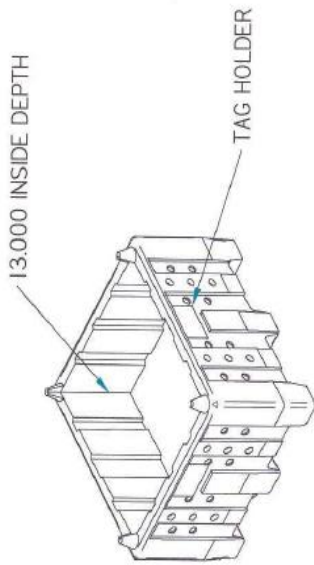
M-9243-20 CONTAINER




30 x 32 x 15.75



NOTES	MATERIAL	LLDPE	 R & R TECHNOLOGIES LLC. Releasee Part 7500 Eastway Road Ellettsburg, IN 46124 812/526-2655	PART NO.	M-9243-20	SHEET	1 OF 1
	2000 LB. CAPACITY	WEIGHT					
COLOR	CUSTOM	NAME	32 X 30 X 15.75 BULK CONTAINER				

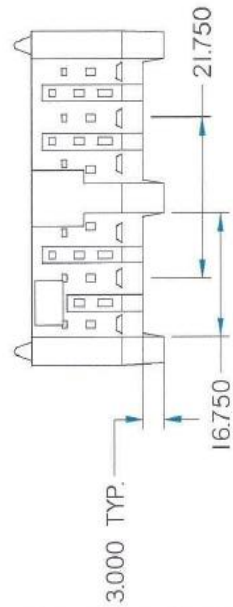
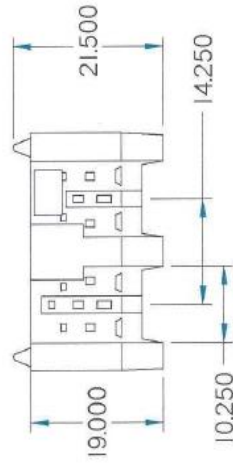
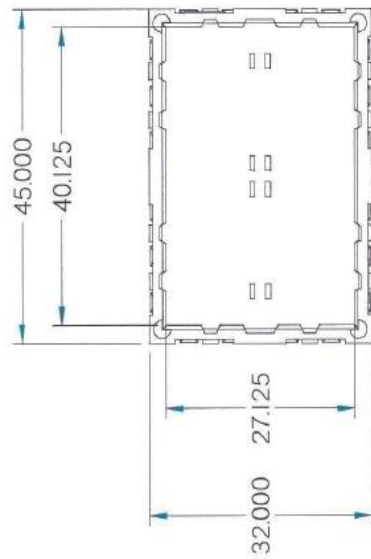
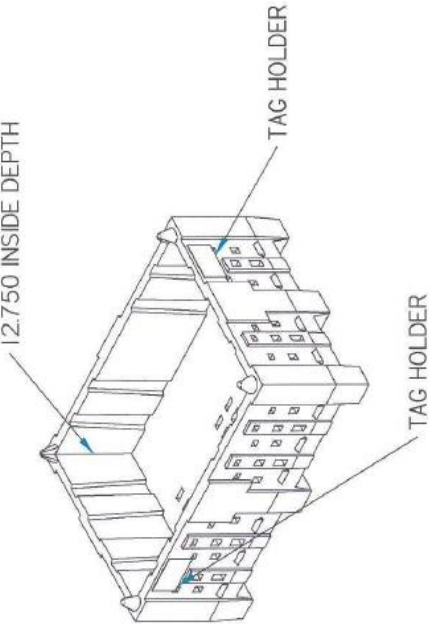


NOTES		 R & R TECHNOLOGIES LLC. Polioeast Plant 7580 County Line Road Marietta, GA 30067 (770) 526-2655		SHEET 1 OF 1	
2500 LB. CAPACITY	MATERIAL LLDPE	WEIGHT 43 LBS.			
COLOR CUSTOM	NAME 30 X 32 X 19.0 BULK CONTAINER	PART NO. M-6577-30			

M-9011-50 CONTAINER



45 x 32 x 19

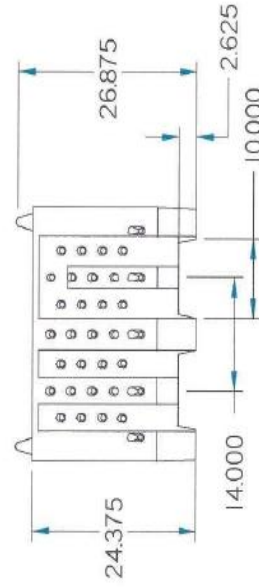
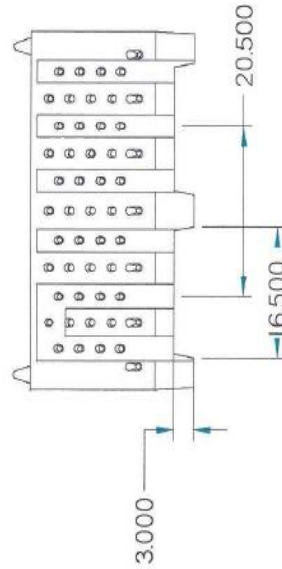
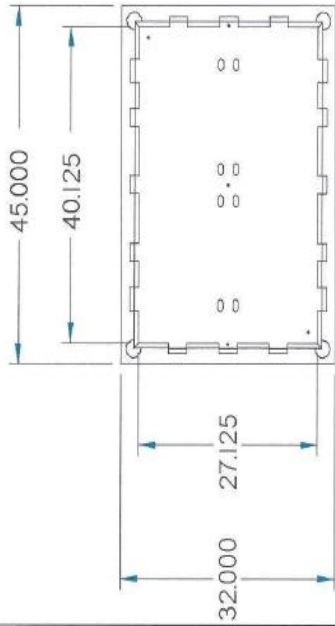
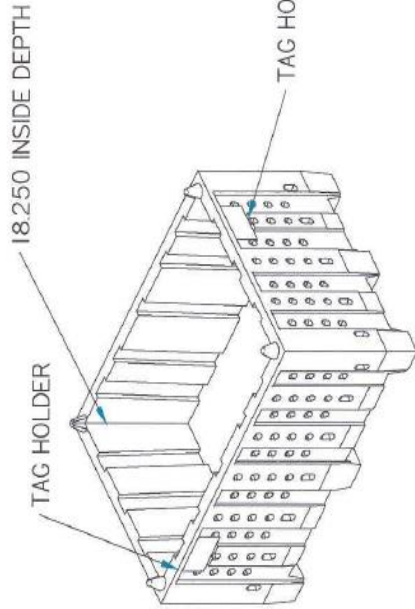



NOTES	MATERIAL	LLDPE.	R & R TECHNOLOGIES LLC. <small> Houston Plant 7550 County Line Road Houston, TX 77054 (816) 526-2859 </small>	PART NO.	M-9011-50	SHEET	1 OF 1
	2500 LB. CAPACITY	WEIGHT					
	COLOR	CUSTOM	NAME	32 X 45 X 19.0 BULK CONTAINER			

M-8730-58 CONTAINER



45 x 32 x 24.375



NOTES	MATERIAL	LLD.P.E.	 R & R TECHNOLOGIES LLC. Rotocast Plant 7560 County Line Road Edinburg, TX 78542 (817) 326-2655	PART NO.	M-8730-58	SHEET	1 OF 1
	2500 LB. CAPACITY	WEIGHT					
COLOR	CUSTOM	NAME	32 X 45 X 24.375 BULK CONTAINER				