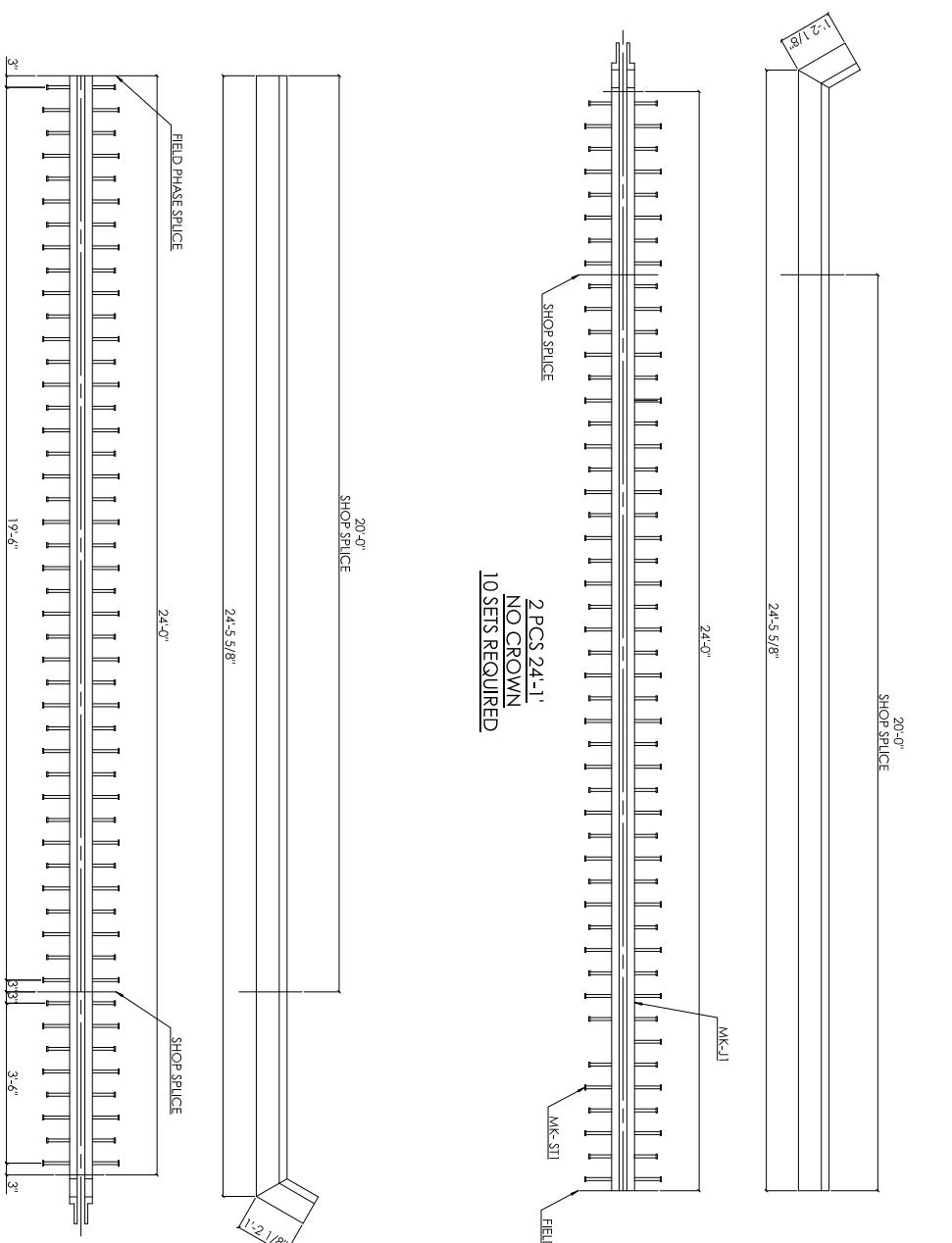


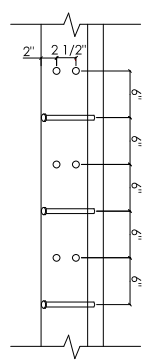
REV	BY	DATE	CHK	DESCRIPTION



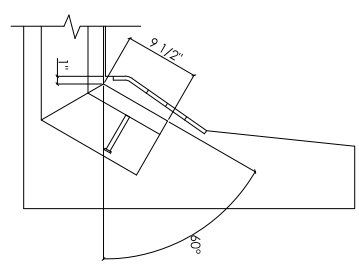
2 PCS 24'-1"  
 NO CROWN  
 10 SETS REQUIRED

2 PCS 24'-1"  
 NO CROWN  
 10 SETS REQUIRED

- SHOP NOTES:
- SPECIFICATION: NCDOT CURRENT STANDARDS AND SPECIFICATIONS
  - ALL STRUCTURAL WELDING SHALL BE IN ACCORDANCE
  - WELDED CONNECTIONS SHALL BE MADE WITH E70XX
  - ELECTRODES AND SHALL BE 1/4" CONTINUOUS
  - ALL BOLTS SHALL BE 1 1/2" DIA. UNF
  - ALL BOLTS SHALL BE A555 GALV UNF
- PAINT NOTES:
- SURFACE CLEAN - SPCC-588
  - RIBS COAT-HiG PERFORM A129



TYPICAL STUD SPACING



SECTION DETAIL

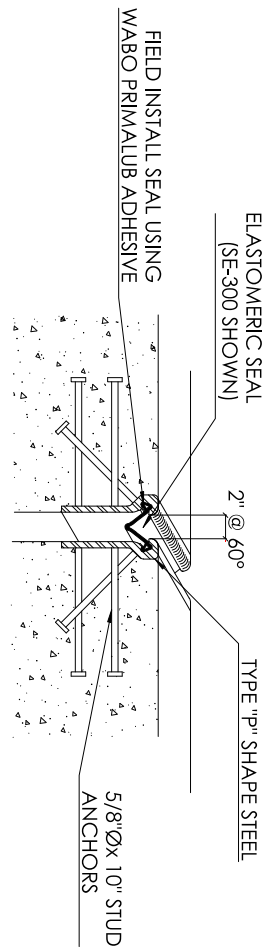
N.C. DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 STRUCTURES MANAGEMENT UNIT

ACCEPTED  
 X ACCEPTED AS NOTED  
 RETURNED FOR  
 CORRECTIONS  
 SEE EMAIL  
 BY: TM Sherrill  
 DATE: 05/23/2019

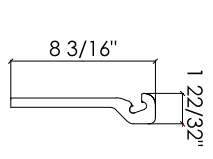
Contractor shall field-verify dimensions are correct and appropriate, prior to ordering and fabricating expansion joint.

	EXPANSION JOINT DETAIL	
	CUSTOMER: AMERICAN CONTRACTING	HALEFX & NORTHAMPTON CO. NORTH CAROLINA
PROJECT NO: F4889	DATE: 4/23/19	NO. 001
DATE: 4/23/19	DATE: 4/23/19	NO. 14-293
DATE: 4/23/19	DATE: 4/23/19	NO. 01 OF 02

REV	BY	DATE	CHK	DESCRIPTION



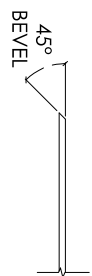
SECTION END EXPANSION JOINT



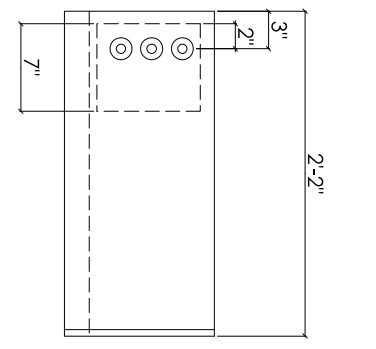
TYPE "P" DETAILS

BILL OF MATERIALS							
NO.	QTY.	MARK	SHAPE	SECTION	LENGTH	GRADE	REMARKS
1	1	J1	TYPE P		25'-7 3/4"	A36	H/DG
2	1920	S11	STUD	5/8"	10'	A29	H/DG
3	20	P1	FLAT	1/2" x 1-2 3/16"	2'-2"	A36	H/DG
4	20	P2	FLAT	1/4" x 7"	10'	A36	H/DG
5	60	C1	ANCHOR	3/4"	8"		
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

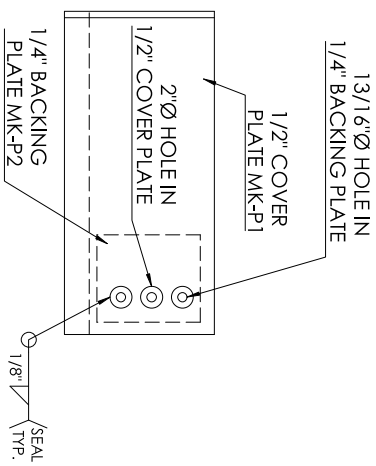
EST. WEIGHT: #



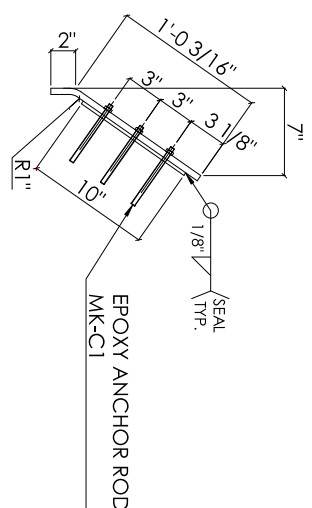
SECTION AA



ELEVATION VIEW



COVER PLATE DETAIL



END VIEW

N.C. DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 STRUCTURES MANAGEMENT UNIT

ACCEPTED  
 X ACCEPTED AS NOTED  
 RETURNED FOR  
 CORRECTIONS  
 SEE EMAIL  
 BY: **TM Sherrill**  
 DATE: **05/23/2019**

Contractor shall field-verify dimensions are correct and appropriate, prior to ordering and fabricating expansion joint.

PAINT NOTES:  
 - SURFACE CLEAN - SSPC-SP6  
 - FINISH COAT: HDG per ASTM A123

SHOP NOTES:  
 - ALL DIMENSIONS SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATIONS  
 - ALL STRUCTURAL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.5  
 - ELECTRODES AND SHALL BE 1/4" CONTINUOUS  
 - ALL BOLTS SHALL BE A325 GRADE UNF  
 - ALL NUTS SHALL BE A325 GRADE UNF



DR: KDP  
 DWG START DATE: 4/23/19  
 DWG LAST DATE: 4/23/19  
 DWG CHECK DATE: 4/23/19  
 CHK: TGT

EXPANSION JOINT DETAIL

CUSTOMER: AMERICAN CONTRACTING  
 HALEY & NORTHAMPTON CO. NORTH CAROLINA  
 PROJECT NO: 15889

SHOP RELEASED DATE: \_\_\_\_\_  
 DWG NO: 001  
 JOB NO: 19493  
 02 OF 02



955 Chenault Road  
 Frankfort, Ky. 40601  
 1-800-778-2201

# Invoice

Invoice #

**25280**

Date

11/19/2019

Bill To

Ship To

HALIFAX/NORTHHAMPTON COS., NC

P.O. Number	Terms	Rep	Ship	Via	F.O.B.
4358-10	NET 30 Days	TT	9/3/2019	THE HALE CO	

Quantity	Item Code	UOM	Description	Price Each	Amount
480	MISC.	LF	FABRICATED EXPANSION JOINTS METALIZED WITH CURB PLATES. Sales Tax	7.00%	

Signature:	<b>Total</b>
------------	--------------

If you would like to receive electronic invoices, please email Jennifer Smith @ [JSmith@bottomseng.com](mailto:JSmith@bottomseng.com)



Ambassador Steel Fabrication LLC

Invoice No.:  
PSI367818A

RETAIL SALES INVOICE

Customer PO No.:	Sales Order No.: SO139918A	Payment Terms: Net 30 Days	Payment Method:	Invoice Date: 09/06/19
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Freight:	Shipping Agent:	Business Unit: Mooresville
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Mail To:	Ship-To:
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Description: Lists 0005E thru 0012E, 0014E thru 0016E

Job Number: 00318115 NCDOT Northampton & Halifax Cos., NC - 203931  
I-95 Reconstruction Project

Item No.	Description	Quantity	Unit Price	Line Amt. (Excl. Tax)
REBAR60E	#010 EB1, EB2, & EB3 and Appr - List 0005E	30.870 CWT		
REBAR60E	Bridge 139 End Bent 1 - Stage - List 0006E	17.090 CWT		
REBAR60E	Bridge 139 End Bent 2 - Stage - List 0007E	17.090 CWT		
REBAR60E	Bridge 141 End Bent 1 - Stage - List 0008E	17.090 CWT		
REBAR60E	Bridge 141 End Bent 2 - Stage - List 0009E	17.090 CWT		
REBAR60E	Bridge 009 End Bent 1 - Stage - List 0010E	17.090 CWT		
REBAR60E	Bridge 009 End Bent 2 - Stage - List 0011E	17.090 CWT		
REBAR60E	Bridge 009 End Bent 3 - Stage - List 0012E	17.090 CWT		
REBAR60E	Bridge 011 End Bent 1 - Stage - List 0014E	17.090 CWT		
REBAR60E	Bridge 011 End Bent 2 - Stage - List 0015E	17.090 CWT		
REBAR60E	Bridge 011 Bent 3 - Stage 1 & - List 0016E	16.300 CWT		

Bills of Lading Release No.  
BL276003A 0005E, 0006E, 0007E, 0008E, 0009E, 0010E, 0011E, 0012E, 0014E, 0015E, 0016E

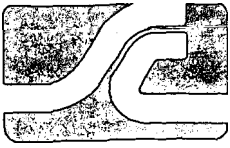
Subtotal:

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SALES INVOICE TOTAL **200.980** CWT (USD)

7% tax

Total



**SIMCOTE, INC.**  
 250 N. Greenwood St.  
 Marion, OH 43302  
 (740) 382-5000

**BILL OF LADING**

Bill of Lading No: 09197354  
 Ship Date: 9/4/2019

**S**  
**H**  
**I**  
**P**  
  
**T**  
**O**

AMBASSADOR STEEL  
 CORPORATION

Customer: AMB  
 Job Number: 63976  
 Ship Via: MAXLINE  
 F.O.B.: Prepaid  
 Customer P.O.: 00318115-0001

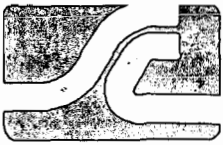
Contact:  
 Phone:

Quantity Ordered	Quantity This Ship	UM	Description	Weight Lbs
SO #S197192				
3,077	3,077	lbs	Reinforcing Steel Per Release CC QVX, Release 0005E, Drawing R1, #010 EB1, EB2 & EB3 and Appro Rebar Epoxy	3,077
1,712	1,712	lbs	Reinforcing Steel Per Release CC UEJ, Release 0006E, Drawing R1, Bridge 139 End Bent 1 - Stage Rebar Epoxy	1,712
1,712	1,712	lbs	Reinforcing Steel Per Release CC UEK, Release 0007E, Drawing R1, Bridge 139 End Bent 2 - Stage Rebar Epoxy	1,712
1,712	1,712	lbs	Reinforcing Steel Per Release CC UEL, Release 0008E, Drawing R1, Bridge 141 End Bent 1 - Stage Rebar Epoxy	1,712
1,712	1,712	lbs	Reinforcing Steel Per Release CC UEM, Release 0009E, Drawing R1, Bridge 141 End Bent 2 - Stage Rebar Epoxy	1,712
1,712	1,712	lbs	Reinforcing Steel Per Release CC UEN, Release 0010E, Drawing R1, Bridge 009 End Bent 1 - Stage Rebar Epoxy	1,712
1,712	1,712	lbs	Reinforcing Steel Per Release CC UEO, Release 0011E, Drawing R1, Bridge 009 End Bent 2 - Stage Rebar Epoxy	1,712
1,630	1,630	lbs	Reinforcing Steel Per Release CC UEP, Release 0012E, Drawing R1, Bridge 009 Bent 3 - Stage 1 & Rebar Epoxy	1,630

Special Instructions:

Requested Delivery Date: 9/4/2019  
 Requested Delivery Time: 08:00 AM

*Handwritten signature and notes*



**SIMCOTE, INC.**  
 250 N. Greenwood St.  
 Marion, OH 43302  
 (740) 382-5000

**BILL OF LADING**

Bill of Lading No: 09197354  
 Ship Date: 9/4/2019

S  
H  
I  
P  
  
T  
O

AMBASSADOR STEEL CORPORATION

Customer: AMB  
 Job Number: 63976  
 Ship Via: MAXLINE  
 F.O.B.: Prepaid  
 Customer P.O.: 00318115-0001

Contact:  
 Phone:

Quantity Ordered	Quantity This Ship	UM	Description	Weight Lbs
1,712	1,712	lbs	Reinforcing Steel Per Release CC UER, Release 0014E, Drawing R1, Bridge 011 End Bent 1 - Stage Rebar Epoxy	1,712
1,712	1,712	lbs	Reinforcing Steel Per Release CC UES, Release 0015E, Drawing R1, Bridge 011 End Bent 2 - Stage Rebar Epoxy	1,712
1,630	1,630	lbs	Reinforcing Steel Per Release CC UET, Release 0016E, Drawing R1, Bridge 011 Bent 3 - Stage 1 & Rebar Epoxy MILES 608	1,630
Total Weight:				20,033

Special Instructions:  
 Requested Delivery Date: 9/4/2019  
 Requested Delivery Time: 08:00 AM



**SIMCOTE, INC.**  
 250 North Greenwood Street  
 Marion, OH 43302-  
 Phone: (740) 382-5000 FAX: (740) 383-1167

JOB NUMBER <b>63976</b>	RELEASE NUMBER <b>0005E</b>	REQ. DELIVERY DATE	PAGE <b>1 of 2</b>
JOB NAME <b>NCDOT I-95</b>			CC <b>QVX</b>
CUSTOMER <b>AMBASSADOR STEEL CORPORATION</b>			BY <b>DPO</b>

MATERIAL TYPE <b>Rebar, Grade 60, Epoxy</b>				REFERENCE <b>E</b>				DRAWING ID <b>R1</b>				DESCRIPTION <b>#010 EB1, EB2 &amp; EB3 and Appro</b>											
Itm	Qty	Size	Length	Mark	Shape	Lbs	A	B	C	D	E	F/R	G	H	J	K	O	BC					

NCDOT CERTS REQUIRED                      PO# 318115-0001

SHIP TO:

**Description**

**#009 EB1 and Approach**

1	192	6	1-04	D1		17	384		0-08	0-08									B04
	192.						384.												
2	18	5	26-00	A1			488												0
	18.						488.												
3	48	4	2-02	B1		3	70	0-06	0-07	0-032	0-10				0-02	0-04	0-03	1-08	A01
4	48	4	2-00	B2		3	64	0-06	0-07	0-032	0-08				0-02	0-04	0-03	1-06	A01
	96.						134.												

**Description**

**#009 EB2 and Approach**

5	192	6	1-04	D1		17	384		0-08	0-08									B04
	192.						384.												
6	18	5	26-00	A1			488												0
	18.						488.												
7	48	4	2-02	B1		3	70	0-06	0-07	0-032	0-10				0-02	0-04	0-03	1-08	A01
8	48	4	2-00	B2		3	64	0-06	0-07	0-032	0-08				0-02	0-04	0-03	1-06	A01
	96.						134.												

**Description**

**#009 EB3 Joint Rplcmnt**

9	192	6	1-04	D1		17	384		0-08	0-08									B04
	192.						384.												
10	20	5	26-00	A1			542												0
	20.						542.												
11	96	4	2-02	B1		3	139	0-06	0-07	0-032	0-10				0-02	0-04	0-03	1-08	A01
	96.						139.												

**Total Weight: 3,077 Lbs**

**Longest Length: 26-00**

INSPECT EPOXY COATING FOR DAMAGE, TOUCH UP, PADDING, & PLACING OF DUNNAGE

INITIALS: \_\_\_\_\_ DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_



**SIMCOTE, INC.**  
 250 North Greenwood Street  
 Marion, OH 43302-  
 Phone: (740) 382-5000 FAX: (740) 383-1167

JOB NUMBER <b>63976</b>	RELEASE NUMBER <b>0005E</b>	REQ. DELIVERY DATE	PAGE <b>2 of 2</b>
JOB NAME <b>NCDOT I-95</b>			CC <b>QVX</b>
CUSTOMER <b>AMBASSADOR STEEL CORPORATION</b>			BY <b>DPO</b>

MATERIAL TYPE <b>Rebar, Grade 60, Epoxy</b>				REFERENCE <b>E</b>	DRAWING ID <b>R1</b>	DESCRIPTION <b>#010 EB1, EB2 &amp; EB3 and Appro</b>												
Itm	Qty	Size	Length	Mark	Shape	Lbs	A	B	C	D	E	F/R	G	H	J	K	O	BC

**WEIGHT SUMMARY**

TOTAL				STRAIGHT			LIGHT BENDING			HEAVY BENDING		
SIZE	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS
<b>Rebar, Grade 60, Epoxy</b>												
4	5	288	407	0	0	0	0	0	0	5	288	407
5	3	56	1,518	3	56	1,518	0	0	0	0	0	0
6	3	576	1,152	0	0	0	0	0	0	3	576	1,152
	11	920	3,077	3	56	1,518	0	0	0	8	864	1,559





**SIMCOTE, INC.**  
 250 North Greenwood Street  
 Marion, OH 43302-  
 Phone: (740) 382-5000 FAX: (740) 383-1167

JOB NUMBER <b>63976</b>	RELEASE NUMBER <b>0006E</b>	REQ. DELIVERY DATE	PAGE <b>1 of 1</b>
JOB NAME <b>NCDOT I-95</b>			CC <b>UEJ</b>
CUSTOMER <b>AMBASSADOR STEEL CORPORATION</b>			BY <b>DPO</b>

MATERIAL TYPE <b>Rebar, Grade 60, Epoxy</b>				REFERENCE <b>E</b>				DRAWING ID <b>R1</b>				DESCRIPTION <b>Bridge 139 End Bent 1 - Stage</b>							
Itm	Qty	Size	Length	Mark	Shape	Lbs	A	B	C	D	E	F/R	G	H	J	K	O	BC	

NCDOT CERTS REQUIRED      PO# 318115-0001

SHIP TO:

1	2	5	23-08	G2		49												0
2	2	5	23-08	G1		49												0
3	8	5	23-08	A4		198												0
4	8	5	23-08	A3		198												0
5	8	5	10-02	A5		85												0
6	276	5	2-02	B12		625												S
304.						1204.												
7	72	4	4-00	S1	S5	192	0-06	0-11	1-02	0-11				0-06				B10
8	10	4	23-08	A2		158												0
9	10	4	23-08	A1		158												0
92.						508.												

Total Weight: 1,712 Lbs

Longest Length: 23-08

INSPECT EPOXY COATING FOR DAMAGE, TOUCH UP, PADDING, & PLACING OF DUNNAGE

INITIALS: \_\_\_\_\_ DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

**WEIGHT SUMMARY**

TOTAL				STRAIGHT			LIGHT BENDING			HEAVY BENDING		
SIZE	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS
<b>Rebar, Grade 60, Epoxy</b>												
4	3	92	508	2	20	316	1	72	192	0	0	0
5	6	304	1,204	6	304	1,204	0	0	0	0	0	0
	9	396	1,712	8	324	1,520	1	72	192	0	0	0



**SIMCOTE, INC.**  
 250 North Greenwood Street  
 Marion, OH 43302-  
 Phone: (740) 382-5000 FAX: (740) 383-1167

JOB NUMBER 63976	RELEASE NUMBER 0007E	REQ. DELIVERY DATE	PAGE 1 of 1
JOB NAME NCDOT I-95			CC UEK
CUSTOMER AMBASSADOR STEEL CORPORATION			BY DPO

MATERIAL TYPE Rebar, Grade 60, Epoxy				REFERENCE E				DRAWING ID R1				DESCRIPTION Bridge 139 End Bent 2 - Stage							
Itm	Qty	Size	Length	Mark	Shape	Lbs	A	B	C	D	E	F/R	G	H	J	K	O	BC	

NCDOT CERTS REQUIRED PO# 318115-0001

SHIP TO:

1	2	5	23-08	G2		49												0
2	2	5	23-08	G1		49												0
3	8	5	23-08	A4		198												0
4	8	5	23-08	A3		198												0
5	8	5	10-02	A5		85												0
6	276	5	2-02	B12		625												S
304.						1204.												
7	72	4	4-00	S1	S5	192	0-06	0-11	1-02	0-11				0-06				B10
8	10	4	23-08	A2		158												0
9	10	4	23-08	A1		158												0
92.						508.												

Total Weight: 1,712 Lbs

Longest Length: 23-08

INSPECT EPOXY COATING FOR DAMAGE, TOUCH UP, PADDING, & PLACING OF DUNNAGE

INITIALS: \_\_\_\_\_ DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

**WEIGHT SUMMARY**

TOTAL				STRAIGHT			LIGHT BENDING			HEAVY BENDING		
SIZE	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS
<b>Rebar, Grade 60, Epoxy</b>												
4	3	92	508	2	20	316	1	72	192	0	0	0
5	6	304	1,204	6	304	1,204	0	0	0	0	0	0
	9	396	1,712	8	324	1,520	1	72	192	0	0	0



**SIMCOTE, INC.**  
 250 North Greenwood Street  
 Marion, OH 43302-  
 Phone: (740) 382-5000 FAX: (740) 383-1167

JOB NUMBER <b>63976</b>	RELEASE NUMBER <b>0008E</b>	REQ. DELIVERY DATE	PAGE <b>1 of 1</b>
JOB NAME <b>NCDOT I-95</b>			CC <b>UEL</b>
CUSTOMER <b>AMBASSADOR STEEL CORPORATION</b>			BY <b>DPO</b>

MATERIAL TYPE <b>Rebar, Grade 60, Epoxy</b>				REFERENCE <b>E</b>				DRAWING ID <b>R1</b>				DESCRIPTION <b>Bridge 141 End Bent 1 - Stage</b>							
Itm	Qty	Size	Length	Mark	Shape	Lbs	A	B	C	D	E	F/R	G	H	J	K	O	BC	

NCDOT CERTS REQUIRED PO# 318115-0001

SHIP TO:

1	2	5	23-08	G2		49													0
2	2	5	23-08	G1		49													0
3	8	5	23-08	A4		198													0
4	8	5	23-08	A3		198													0
5	8	5	10-02	A5		85													0
6	276	5	2-02	B12		625													S
304.						1204.													
7	72	4	4-00	S1	S5	192	0-06	0-11	1-02	0-11				0-06					B10
8	10	4	23-08	A2		158													0
9	10	4	23-08	A1		158													0
92.						508.													

Total Weight: 1,712 Lbs

Longest Length: 23-08

INSPECT EPOXY COATING FOR DAMAGE, TOUCH UP, PADDING, & PLACING OF DUNNAGE

INITIALS: \_\_\_\_\_ DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

**WEIGHT SUMMARY**

TOTAL				STRAIGHT			LIGHT BENDING			HEAVY BENDING		
SIZE	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS
<b>Rebar, Grade 60, Epoxy</b>												
4	3	92	508	2	20	316	1	72	192	0	0	0
5	6	304	1,204	6	304	1,204	0	0	0	0	0	0
	9	396	1,712	8	324	1,520	1	72	192	0	0	0



**SIMCOTE, INC.**  
 250 North Greenwood Street  
 Marion, OH 43302-  
 Phone: (740) 382-5000 FAX: (740) 383-1167

JOB NUMBER <b>63976</b>	RELEASE NUMBER <b>0009E</b>	REQ. DELIVERY DATE	PAGE 1 of 1
JOB NAME <b>NCDOT I-95</b>			CC <b>UEM</b>
CUSTOMER <b>AMBASSADOR STEEL CORPORATION</b>			BY <b>DPO</b>

MATERIAL TYPE <b>Rebar, Grade 60, Epoxy</b>				REFERENCE <b>E</b>				DRAWING ID <b>R1</b>				DESCRIPTION <b>Bridge 141 End Bent 2 - Stage</b>											
Itm	Qty	Size	Length	Mark	Shape	Lbs	A	B	C	D	E	F/R	G	H	J	K	O	BC					

NCDOT CERTS REQUIRED                      PO# 318115-0001

SHIP TO:

1	2	5	23-08	G2		49													0
2	2	5	23-08	G1		49													0
3	8	5	23-08	A4		198													0
4	8	5	23-08	A3		198													0
5	8	5	10-02	A5		85													0
6	276	5	2-02	B12		625													S
	304.					1204.													
7	72	4	4-00	S1	S5	192	0-06	0-11	1-02	0-11				0-06					B10
8	10	4	23-08	A2		158													0
9	10	4	23-08	A1		158													0
	92.					508.													

Total Weight: 1,712 Lbs

Longest Length: 23-08

INSPECT EPOXY COATING FOR DAMAGE, TOUCH UP, PADDING, & PLACING OF DUNNAGE

INITIALS: \_\_\_\_\_ DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

**WEIGHT SUMMARY**

TOTAL				STRAIGHT			LIGHT BENDING			HEAVY BENDING		
SIZE	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS
<b>Rebar, Grade 60, Epoxy</b>												
4	3	92	508	2	20	316	1	72	192	0	0	0
5	6	304	1,204	6	304	1,204	0	0	0	0	0	0
	9	396	1,712	8	324	1,520	1	72	192	0	0	0



**SIMCOTE, INC.**  
 250 North Greenwood Street  
 Marion, OH 43302-  
 Phone: (740) 382-5000 FAX: (740) 383-1167

JOB NUMBER <b>63976</b>	RELEASE NUMBER <b>0010E</b>	REQ DELIVERY DATE	PAGE <b>1 of 1</b>
JOB NAME <b>NCDOT I-95</b>			CC <b>UEN</b>
CUSTOMER <b>AMBASSADOR STEEL CORPORATION</b>			BY <b>DPO</b>

MATERIAL TYPE <b>Rebar, Grade 60, Epoxy</b>				REFERENCE <b>E</b>	DRAWING ID <b>R1</b>	DESCRIPTION <b>Bridge 009 End Bent 1 - Stage</b>												
Itm	Qty	Size	Length	Mark	Shape	Lbs	A	B	C	D	E	F/R	G	H	J	K	O	BC

NCDOT CERTS REQUIRED                      PO# 318115-0001

SHIP TO:

1	2	5	23-08	G2		49												0
2	2	5	23-08	G1		49												0
3	8	5	23-08	A4		198												0
4	8	5	23-08	A3		198												0
5	8	5	10-02	A5		85												0
6	276	5	2-02	B12		625												S
<b>304.</b>						<b>1204.</b>												
7	72	4	4-00	S1	S5	192	0-06	0-11	1-02	0-11				0-06				B10
8	10	4	23-08	A2		158												0
9	10	4	23-08	A1		158												0
<b>92.</b>						<b>508.</b>												

Total Weight: 1,712 Lbs

Longest Length: 23-08

INSPECT EPOXY COATING FOR DAMAGE, TOUCH UP, PADDING, & PLACING OF DUNNAGE

INITIALS: \_\_\_\_\_ DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

**WEIGHT SUMMARY**

TOTAL				STRAIGHT			LIGHT BENDING			HEAVY BENDING		
SIZE	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS
<b>Rebar, Grade 60, Epoxy</b>												
4	3	92	508	2	20	316	1	72	192	0	0	0
5	6	304	1,204	6	304	1,204	0	0	0	0	0	0
	9	396	1,712	8	324	1,520	1	72	192	0	0	0



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JOB NUMBER <b>63976</b>	RELEASE NUMBER <b>0011E</b>	REQ DELIVERY DATE	PAGE <b>1 of 1</b>
JOB NAME <b>NCDOT I-95</b>			CC <b>UEO</b>
CUSTOMER <b>AMBASSADOR STEEL CORPORATION</b>			
			BY <b>DPO</b>

MATERIAL TYPE <b>Rebar, Grade 60, Epoxy</b>				REFERENCE <b>E</b>				DRAWING ID <b>R1</b>				DESCRIPTION <b>Bridge 009 End Bent 2 - Stage</b>							
ltn	Qty	Size	Length	Mark	Shape	Lbs	A	B	C	D	E	F/R	G	H	J	K	O	BC	

NCDOT CERTS REQUIRED PO# 318115-0001

SHIP TO:

1	2	5	23-08	G2		49													0
2	2	5	23-08	G1		49													0
3	8	5	23-08	A4		198													0
4	8	5	23-08	A3		198													0
5	8	5	10-02	A5		85													0
6	276	5	2-02	B12		625													S
304.						1204.													
7	72	4	4-00	S1	S5	192	0-06	0-11	1-02	0-11				0-06					B10
8	10	4	23-08	A2		158													0
9	10	4	23-08	A1		158													0
92.						508.													

Total Weight: 1,712 Lbs

Longest Length: 23-08

INSPECT EPOXY COATING FOR DAMAGE, TOUCH UP, PADDING, & PLACING OF DUNNAGE

INITIALS: \_\_\_\_\_ DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

**WEIGHT SUMMARY**

TOTAL				STRAIGHT			LIGHT BENDING			HEAVY BENDING		
SIZE	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS
<b>Rebar, Grade 60, Epoxy</b>												
4	3	92	508	2	20	316	1	72	192	0	0	0
5	6	304	1,204	6	304	1,204	0	0	0	0	0	0
	9	396	1,712	8	324	1,520	1	72	192	0	0	0



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 Marion, OH 43302  
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JOB NUMBER <b>63976</b>	RELEASE NUMBER <b>0012E</b>	REQ. DELIVERY DATE	PAGE <b>1 of 1</b>
JOB NAME <b>NCDOT I-95</b>			CC <b>UEP</b>
CUSTOMER <b>AMBASSADOR STEEL CORPORATION</b>			
			BY <b>DPO</b>

MATERIAL TYPE <b>Rebar, Grade 60, Epoxy</b>				REFERENCE <b>E</b>	DRAWING ID <b>R1</b>	DESCRIPTION <b>Bridge 009 Bent 3 - Stage 1 &amp;</b>												
ltn	Qty	Size	Length	Mark	Shape	Lbs	A	B	C	D	E	F/R	G	H	J	K	O	BC

NCDOT CERTS REQUIRED      PO# 318115-0001

SHIP TO:

1	2	5	23-08	G2		49												0	
2	2	5	23-08	G1		49												0	
3	16	5	23-08	A4		395												0	
4	16	5	23-08	A3		395												0	
5	16	5	10-02	A5		170												0	
6	168	5	2-02	B12		380												S	
						220.													1438.
7	72	4	4-00	S1	S5	192	0-06	0-11	1-02	0-11				0-06				B10	
						72.													192.

Total Weight: 1,630 Lbs

Longest Length: 23-08

INSPECT EPOXY COATING FOR DAMAGE, TOUCH UP, PADDING, & PLACING OF DUNNAGE

INITIALS: \_\_\_\_\_ DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

**WEIGHT SUMMARY**

TOTAL				STRAIGHT			LIGHT BENDING			HEAVY BENDING		
SIZE	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS
<b>Rebar, Grade 60, Epoxy</b>												
4	1	72	192	0	0	0	1	72	192	0	0	0
5	6	220	1,438	6	220	1,438	0	0	0	0	0	0
	<u>7</u>	<u>292</u>	<u>1,630</u>	<u>6</u>	<u>220</u>	<u>1,438</u>	<u>1</u>	<u>72</u>	<u>192</u>	<u>0</u>	<u>0</u>	<u>0</u>



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 Marion, OH 43302-  
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JOB NUMBER <b>63976</b>	RELEASE NUMBER <b>0014E</b>	REQ. DELIVERY DATE	PAGE <b>1 of 1</b>
JOB NAME <b>NC DOT I-95</b>			CC <b>UER</b>
CUSTOMER <b>AMBASSADOR STEEL CORPORATION</b>			BY <b>DPO</b>

MATERIAL TYPE <b>Rebar, Grade 60, Epoxy</b>				REFERENCE <b>E</b>				DRAWING ID <b>R1</b>				DESCRIPTION <b>Bridge 011 End Bent 1 - Stage</b>							
ltn	Qty	Size	Length	Mark	Shape	Lbs	A	B	C	D	E	F/R	G	H	J	K	O.	BC	

NC DOT CERTS REQUIRED PO# 318115-0001

SHIP TO:

1	2	5	23-08	G2		49												0
2	2	5	23-08	G1		49												0
3	8	5	23-08	A4		198												0
4	8	5	23-08	A3		198												0
5	8	5	10-02	A5		85												0
6	276	5	2-02	B12		625												S
<b>304.</b>						<b>1204.</b>												
7	72	4	4-00	S1	S5	192	0-06	0-11	1-02	0-11				0-06				B10
8	10	4	23-08	A2		158												0
9	10	4	23-08	A1		158												0
<b>92.</b>						<b>508.</b>												

Total Weight: 1,712 Lbs

Longest Length: 23-08

INSPECT EPOXY COATING FOR DAMAGE, TOUCH UP, PADDING, & PLACING OF DUNNAGE

INITIALS: \_\_\_\_\_ DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

**WEIGHT SUMMARY**

TOTAL				STRAIGHT			LIGHT BENDING			HEAVY BENDING		
SIZE	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS
<b>Rebar, Grade 60, Epoxy</b>												
4	3	92	508	2	20	316	1	72	192	0	0	0
5	6	304	1,204	6	304	1,204	0	0	0	0	0	0
	9	396	1,712	8	324	1,520	1	72	192	0	0	0





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JOB NUMBER <b>63976</b>	RELEASE NUMBER <b>0015E</b>	REQ. DELIVERY DATE	PAGE <b>1 of 1</b>
JOB NAME <b>NCDOT I-95</b>			CC <b>UES</b>
CUSTOMER <b>AMBASSADOR STEEL CORPORATION</b>			BY <b>DPO</b>

MATERIAL TYPE <b>Rebar, Grade 60, Epoxy</b>				REFERENCE <b>E</b>				DRAWING ID <b>R1</b>				DESCRIPTION <b>Bridge 011 End Bent 2 - Stage</b>							
Itm	Qty	Size	Length	Mark	Shape	Lbs	A	B	C	D	E	F/R	G	H	J	K	O	BC	

NCDOT CERTS REQUIRED PO# 318115-0001

SHIP TO:

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<b>Rebar, Grade 60, Epoxy</b>												
4	3	92	508	2	20	316	1	72	192	0	0	0
5	6	304	1,204	6	304	1,204	0	0	0	0	0	0
	<u>9</u>	<u>396</u>	<u>1,712</u>	<u>8</u>	<u>324</u>	<u>1,520</u>	<u>1</u>	<u>72</u>	<u>192</u>	<u>0</u>	<u>0</u>	<u>0</u>



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JOB NUMBER <b>63976</b>	RELEASE NUMBER <b>0016E</b>	REQ. DELIVERY DATE	PAGE <b>1 of 1</b>
JOB NAME <b>NCDOT I-95</b>			CC <b>UET</b>
CUSTOMER <b>AMBASSADOR STEEL CORPORATION</b>			BY <b>DPO</b>

MATERIAL TYPE <b>Rebar, Grade 60, Epoxy</b>				REFERENCE <b>E</b>				DRAWING ID <b>R1</b>				DESCRIPTION <b>Bridge 011 Bent 3 - Stage 1 &amp;</b>											
Itm	Qty	Size	Length	Mark	Shape	Lbs	A	B	C	D	E	F/R	G	H	J	K	O	BC					

NCDOT CERTS REQUIRED      PO# 318115-0001

SHIP TO:

1	2	5	23-08	G2		49													0
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3	16	5	23-08	A4		395													0
4	16	5	23-08	A3		395													0
5	16	5	10-02	A5		170													0
6	168	5	2-02	B12		380													S
220.						1438.													
7	72	4	4-00	S1	S5	192	0-06	0-11	1-02	0-11				0-06					B10
72.						192.													

Total Weight: 1,630 Lbs

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TOTAL				STRAIGHT			LIGHT BENDING			HEAVY BENDING		
SIZE	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS	ITEMS	PIECES	LBS
<b>Rebar, Grade 60, Epoxy</b>												
4	1	72	192	0	0	0	1	72	192	0	0	0
5	6	220	1,438	6	220	1,438	0	0	0	0	0	0
	<u>7</u>	<u>292</u>	<u>1,630</u>	<u>6</u>	<u>220</u>	<u>1,438</u>	<u>1</u>	<u>72</u>	<u>192</u>	<u>0</u>	<u>0</u>	<u>0</u>



A SUBSIDIARY OF FC INDUSTRIES INC.  
 4900 Webster Street  
 Dayton, OH 45414-4831  
 Phone: 937-275-8700 Fax:937-275-9566

# Packing List

Ship Date	Packing List No.	Page
8/27/2019	0064253	1 of 1

Date Printed: 8/27/2019  
 Time Printed: 12:24:47PM

**Sold To:**  
 HARRIS REBAR/AMBASSADOR STEEL  
 3405 STONY SPRING CIRCLE  
 LOUISVILLE, KY 40220  
 USA

**Ship To:**

Sales Order No	Order Date	Customer P. O.	Ship Via
0163441	8/23/2019	318115/18ED	R&L LTL

Line/WT #	Item Number	Description	Ordered Qty	Shipped Qty	Backordered Qty
-----------	-------------	-------------	-------------	-------------	-----------------

001	BS	BARSPLICER BS-B SIZE: #5 EPOXY COATED A615 GRADE 60 A = 36.000 IN. W/COUPLER, W/ FLANGE, W/THREAD PROTECTOR PLUG 590/#5 EPOXY THREADED TIE BARS	224	224	0
002	BS	BARSPLICER BS-H SIZE: #5 EPOXY COATED A615 GRADE 60 C = 36.000 IN. W/THREAD PROTECTOR CAP 591/#5 EPOXY THREADED TIE BARS <b>Lot Number:</b> EC01C Qty: 224 <b>Lot Number:</b> 17N Qty: 653 <b>Lot Number:</b> 17N Qty: 691	224	224	0

**Comments:** FOB: DAYTON, OH USA  
 JESSIKA  
 KEVIN NUNN  
 NCDOT NORTHAMPTON & HALIFAX COS., NC-203931

**MILL CERTS**



**CERTIFICATE OF CONFORMANCE**

FOR BPI® TAPER THREADED GRIP-TWIST®, BARGRIP® XL, BUTTONHEAD,  
ZAP SCREWLOK®, DOUBLE BARREL ZAP SCREWLOK®, ZAP T-LOK,  
BPI® BARSPLICER, BARSPLICER DoughNUT

DATE	CUSTOMER	PURCHASE ORDER	ITEM	PROJECT NAME
8/27/2019	HARRIS REBAR/AMBASS	318115/18ED		NCDOT NORTHAMPTON
QUANTITY	PRODUCT	IDENTIFICATION	HEAT LOT NO	ASTM Spec or Mill Mark
224 EA	#5 THREAD EPOXY CPLR W/FL	5EW EC01C	DL18100116	ASTM A108-13
1344 FT	#5 EPOXY REBAR	5RE 17N	7001726	CMC
<b>TOTAL</b>				


This certifies upon the date shown hereon that the materials and design of couplers and headed devices listed above have shipped from BarSplice Products, Inc. (BPI) and comply with the general description and representations made in BPI literature and data sheet(s) in effect at the time of this issue and/or additional publications supplied as a result of special customer requirements.

Ferrous materials used in the manufacture of BPI's Splicing Systems are procured under BPI's ISO 9001 quality control system to conform to BPI specifications. Codes assigned to the product allow for traceability back to the original heat of steel and finished products comply with "Buy American" clauses. Code(s) and corresponding heat number(s) are on certified mill material test reports supplied with the order.


BPI's Splicing Systems are designed to mechanically splice (connect) or mechanically head reinforcing bars which conform to the latest requirements of ASTM A615 or ASTM A706. (Non-conforming rebars or those with missing/undersized/over-spaced deformations may require specially designed product depending upon specified strength requirements.)

Installed splices and headed devices are designed to exceed the strength requirements of "Building Code Requirements for Reinforced Concrete" (ACI318) and "Standard Specifications for Highway Bridges" (adopted by AASHTO). Correctly installed splices are capable of developing 125% x specified yield strength of Grade 60 rebar and/or meet/exceed other special specification(s) (if any) agreed in writing between BPI and its customer. Independent and in-house tensile tests have been performed on each of BPI's Splicing Systems. For headed devices, in-air testing has verified conformance with Class A/HA strength requirement listed in ASTM A970. The product must be installed in accordance with the latest edition of Splicing Manual or Installation Instructions (and any special supplements) supplied with the product which must be read and understood by the operator before use. Where epoxy coated splices and headed devices are used with epoxy coated bars, some touch-up and/or repair of the epoxy may be required. In accordance with project specifications, tensile tests may be required before production splices are made to verify correct usage, rebar grade, and operator proficiency.

Other terms and conditions are applicable as may have been previously supplied on quotations and order acknowledgments, either directly or to the dealer, distributor or representative. For the BPI® Barsplicer System, this Certificate of Conformance does not extend to rebars or threads which have not been supplied by Barsplice Products, Inc. When applicable, certification of epoxy coating is made by the epoxy coater. BARSPLICE PRODUCTS WILL BE PLEASED TO SUPPLY YOU WITH FURTHER INFORMATION IF REQUIRED.

  
 \_\_\_\_\_ 8/27/2019 \_\_\_\_\_ 163441  
 Barsplice Products, Inc. Date Shop Order #

BarSplice Products, Inc., 4900 Webster Street, Dayton OH 45414, USA  
 © Tel: (937) 275-8700 ○ Fax: (937) 275-9566 ○ E-mail: bar@barsplice.com FC-1513b Rev.D 9/12/2016

	<b>Barsplice</b>	REVIEWED BY
	PRODUCTS INC.	ENG. & APPROVED FOR MANUFACTURE
		DATE 6/10/2019 HT# DL18100116
		SIG <i>Just Manis</i> CODE 05EW EC01C

# MIAMISBURG COATING

925 N. Main St.  
 Miamisburg, OH 45342, USA  
 (937) 866-1323

## CERTIFICATE OF COMPLIANCE

Customer:  
 Barsplice Products, Inc.  
 4900 Webster Street  
 Dayton, OH 45414

We hereby certify that the following parts have been domestically shot blasted, cleaned and coated at the Miamisburg, OH location noted above using Certified Epoxy in accordance with the Manufacturer's Specifications and that thickness, continuity and flexibility of coating tests have been performed and test results comply with the requirements outlined. Coating thickness meets the requirements of ASTM A934. In addition, the epoxy coating meets the applicable requirements of specification NYSDOT 709-04.

QUANTITY	PART NAME	PART LOT NUMBER	HEAT LOT NUMBER	EPOXY POWDER LOT NUMBER	P.O. NUMBER
3891	#5 Coupler w/ Flange	EC01C	DL18100116	9396029507	70137

Authorized Signature: *Opal Sizemore*  
 Title: *President*  
 Date: *6-5-2019*

**Barsplice** PRODUCTS INC. REVIEWED BY  
 ENG. & APPROVED FOR MANUFACTURE  
 DATE 6/10/2019 HT# DL18100116  
 SIG *Paul Marino* CODE 05EW EC01C

# MIAMISBURG COATING INSPECTION DATA SHEET

CUSTOMER: Barsplice DATE: 6/5/2019 SHIFT: 1

PART NAME: #5 Coupler WF PART LOT #: FC01

EPOXY MATERIAL NAME AND NUMBER										EPOXY MATERIAL LOT NUMBER		
Valspar										9396029507		
TEST METHOD (circle one): POSITEST - DIGTL - CALIPER												
TEST: THICKNESS (mil)												
TIME .....	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	THICKNESS REQUIREMENT:  <b>EPOXY FROM 8 TO 12 MILS.</b>		
SAMPLE 1	12	12	18	12	12	11	11	12	11			
2	11	11	12	10	10	12	10	11	10			
3	12	10	12	12	12	10	12	11	12			
4	12	12	10	12	12	12	10	12	11			
5	11	12	12	9	12	12	11	11	11			
6	12	11	10	11	12	11	12	11	10			

TEST METHOD: KNIFE										ADHESION REQUIREMENT:	
TEST: ADHESION											
TIME .....	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	NO SEPARATION (RATING OF 8 OR HIGHER)	
KNIFE .....	P	P	P	P	P	P	P	P	P		
	10	10	10	10	10	10	10	10	10		
RESULTS INDICATORS: P = PASS F = FAIL											

TEST METHOD (circle one): SOLVENT RUB - TAPE - THUMBAIL										TEST REQUIREMENT:	
TEST: CURE											
TIME .....	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	NO CRACKING OR SEPARATION	
	P	P	P	P	P	P	P	P	P		
P = PASS F = FAIL											

APPEARANCE OF PARTS BEFORE AND AFTER COATING										VISUAL REQUIREMENT:	
TEST: VISUAL											
TIME .....	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	GOOD APPEARANCE AND COLOR MATCH	
BEFORE .....	P	P	P	P	P	P	P	P	P		
AFTER .....	P	P	P	P	P	P	P	P	P		
P = PASS F = FAIL IF FAILED, MUST EXPLAIN REASON											

EXPLAIN: \_\_\_\_\_

TEST METHOD (circle one): HOLIDAY										HOLIDAY REQUIREMENT:	
ADDITIONAL TESTS IF IT IS SPECIFIED											
TIME .....	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	NO PINHOLES	
HOLIDAY .....	P	P	P	P	P	P	P	P	P		
P = PASS F = FAIL											

LINE SPEED AND TEMPERATURES											
SPEED .....											
PRE-HEAT											
CURE .....											
TIME .....											

INSPECTOR: Tim Sizemore

05UN EC01 05EN EC01\* 05GN EC01\*  
 05UW EC01 05EW EC01\* 05GW EC01\*

**Bar-Splice** REVIEWED BY  
 ENG. & APPROVED FOR MANUFACTURE  
 DATE 4/15/2019 HT# DL18100116  
 SIG *John Harris* CODE LISTED

Customer P.O.	10536	Sales Order	575960.1
Product Group	Cold Finish Bar	Part Number	339722
Grade	ASTM A108, grade 1215 75ksi min Tensile.	Lot #	D1144902
Size	Round 1.0000 (.0020)	Heat #	DL18100116
Product	RD 1.0000" 1215 12-0 CD	B.L. Number	D1-427301
Description	CF Grade 1215	Load Number	D1-135879
Customer Spec		Customer Part #	339722

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements

1215 ASTM A108  
 Part Detail: RD 1.0000" 1215 12-0 Cold Drawn  
 Process: Cold Drawn

C	Mn	P	S	Si	Cu	Cr	Ni	Mo	Sn	V	Cb
0.07%	1.06%	0.055%	0.346%	0.01%	0.19%	0.06%	0.06%	0.017%	0.008%	0.0050%	0.004%
Al	Pb										
0.002%	0.007%										

Melting Mill: Nucor Bar SC Country of Melting: USA  
 Reduction Ratio 55.2 :1 Country of Rolling: USA Rolling Mill: Nucor Bar SC  
 Tensile Strength: 76,000 PSI Rockwell B Surface: 91.0 HRB Brinell Converted Surface: 190.0 HB  
 Specification Comments:

- 1 Material certifies to ASTM A108 - 18 (unless otherwise noted) for Standard Cold Finished Bars
- 2 No welding or weld repair was performed on this material.
- 3 Mercury, radium, or alpha source materials in any form have not been used in the production of this material
- 4 IATF 16949:2016 Certified, Certificate No: 0302504 Expires April 30, 2021
- 5 All NCFSC produced 11XX and 12XX rounds 2.5" and under are eddy current tested.

LOT # 5055

*Chris Kelly*

Chris Kelly  
 DIVISION METALLURGIST

# Valspar Corporation

## CERTIFICATION of COMPLIANCE

Date: 3/13/2019

Specification: ASTM A775, ASTM A1078, ASTM A884, AASHTO M284, AASHTO M254

Valspar Product Code: 720A009LG (Epoxy Powder for Coating)

Batch Number: 9396029507

Production Date: 3/11/2019 (Expiration is 6 months post production date)

Batch Size: 16,000 lbs.

I hereby certify that the above lot of material was manufactured to formulation, meeting all the requirements of the above specifications and that this material is chemically the same material that was tested by Valley Forge Laboratories of Devon, PA. or Wiss, Janney, Elstner Associates of Northbrook, IL.

The individual signing below has the legal authority to bind Valspar to the material.

Eric Gregory / Q.C. Supervisor  
 Name and Title  
Eric Gregory  
 Signature  
3/13/19  
 Date

10300 Claude Frecman Drive  
 Charlotte, NC 28262  
 Phone: (704) 548-2820  
 Fax: (704) 547-0634

State/Commonwealth NC County of Mecklenburg  
 On this the 13 of March, 2019, before me Michael W. Deal  
 Day Month Year Name of Notary Public  
 The undersigned Notary Public, personally appeared Eric Gregory  personally known to me  
 Name(s) of Signer(s)

To be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same for the purposes therein stated.

Witness my hand and official seal  
Michael W. Deal  
 Signature of Notary Public

9-27-2020  
 Other Required Information (Printed Name of Notary, Residence, etc.)



The articles identified above were produced in the United States and qualify as "U.S.-made end products", "domestic construction materials" and "domestic manufactured goods"

The data on this sheet represent measured values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option.





CMC STEEL TENNESSEE  
1919 Tennessee Avenue  
Knoxville TN 37921-2686

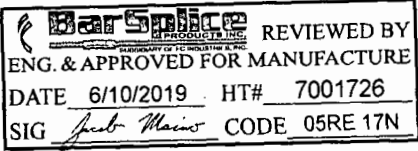
CERTIFIED MILL TEST REPORT  
For additional copies call  
865-202-5972/888-870-0766

We hereby certify that the test results presented here  
are accurate and conform to the reported grade specification

*Jim Hall*  
Jim Hall

Quality Assurance Manager

HEAT NO.: 7001726 SECTION: REBAR 16MM (#5) 40'0" 420/60 CLD CQ GRADE: ASTM A615-18e1 Gr 420/60 CLD ROLL DATE: 05/10/2019 MELT DATE: 05/10/2019 Cert. No.: 82713115 / 001726L200	S O L D T O	CMC REBAR IN MUNCIE NORTH  South Macedonia Avenue Muncie IN US 47302-3647	S H I P T O	CMC REBAR IN MUNCIE NORTH  1610 S Macedonia Ave Muncie IN US 47302-3647 9999999999	Delivery#: 82713115 BOL#: 72986372 CUST PO#: CUST P/N: DLVRY LBS / HEAT: 7510.000 LB DLVRY PCS / HEAT: 180 EA
---	----------------------------	---	----------------------------	---	--

Characteristic	Value	Characteristic	Value	Characteristic	Value
C	0.39%	Rebar Deformation Avg. Spaci	0.392IN	 REVIEWED BY ENG. & APPROVED FOR MANUFACTURE DATE 6/10/2019 HT# 7001726 SIG <i>John Mains</i> CODE 05RE 17N	
Mn	0.78%	Rebar Deformation Avg. Heigh	0.046IN		
P	0.017%	Rebar Deformation Max. Gap	0.117IN		
S	0.058%	The Following is true of the material represented by this MTR: *Material is fully killed *100% melted and rolled in the USA *EN10204 2004 3 1 compliant *Contains no weld repair *Contains no Mercury contamination *Manufactured in accordance with the latest version of the plant quality manual *Meets the "Buy America" requirements of 23 CFR635 410 49 CFR 661 *Warning. This product can expose you to chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm For more information go to www.P65Warnings.ca.gov			
Si	0.24%				
Cu	0.38%				
Cr	0.15%				
Ni	0.08%				
Mo	0.005%				
V	0.004%				
Sn	0.005%				
Yield Strength test 1	85.0ksi				
Yield Strength test 1 (metric)	586MPa				
Tensile Strength test 1	107.2ksi				
Tensile Strength 1 (metric)	739MPa				
Elongation test 1	13%				
Elongation Gage Lgth test 1	8IN				
Elongation Gage Lgth 1(metric)	200mm				
Bend Test 1	Passed				

REMARKS :



**Barsplice** REVIEWED BY  
 ENG. & APPROVED FOR MANUFACTURE  
 DATE 6/10/2019 HT# 7001726  
 SIG *Jose Pando* CODE 05RE 17N

Muncie reinforcing  
 Fabricator's heat number identification  
 of reinforcing bars

Date: 5/31/2019  
 Plant: CMC MUNCIE  
 Project: BARSPLICE PRODUCTS INC MISC  
 Job #: 9922640009  
 County:  
 Fabricator: CMC MUNCIE

DOT:   
 Contractor: BARSPLICE PRODUCTS IC  
 Plant Location: 1810 S MACEDONIA AVE, MUNCIE, IN 47302  
 Station: PO #52473-2 - #5 X 40'0" \*EP  
 Structure Number:  
 Load or Control #: MUN000720

Bundle ID #	Bar Size	Grade	Weight (Lbs.)	Manufacturer (Mill Mark)	Mill No.	Epoxy Heat No.	Powder Manufacturer	Powder Lot Number
00000000001001861377	5	60 CLD	7510	AKS	7001726	20190530	3M SCOTCHKOTE	9C26A31A
00000000001001861375	5	60 CLD	7510	AKS	7001726	20190530	3M SCOTCHKOTE	9C26A31A
00000000001001861030	5	60 CLD	7510	AKS	7001726	20190530	3M SCOTCHKOTE	9C26A31A
00000000001001854884	5	60 CLD	1669	AKS	7001726	20190518	3M SCOTCHKOTE	9C27C43A
00000000001001861339	5	60 CLD	7510	AKS	7001725	20190530	3M SCOTCHKOTE	9C26A31A
00000000001001861332	5	60 CLD	7510	AKS	7001725	20190530	3M SCOTCHKOTE	9C26A31A
00000000001001861331	5	60 CLD	7510	AKS	7001725	20190530	3M SCOTCHKOTE	9C26A31A

PO #: 52473-2

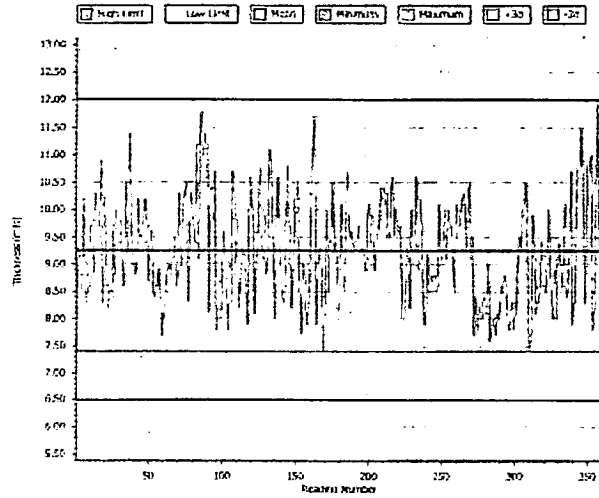
Total weight: 46726

*Jose Pando*  
 Signature of Authorized Representative

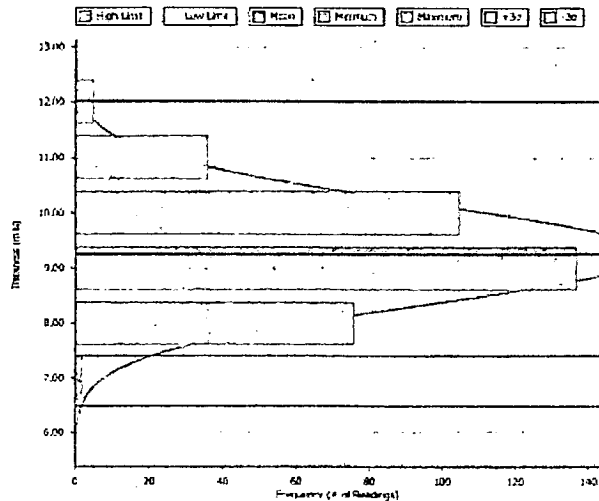
Inspection Report - Dry Film Thickness

2019-2264\  
 2264\_05302019\_1ST\_QC

Individuals / Run Chart



Histogram



Project

Name 2019-2264

Gauge

Type  
 PCB Serial #  
 Serial #  
 User ID

Probe

Type  
 Serial #

Batch

Name In Gauge  
 User ID 2264\_05302019\_1ST\_QC  
 Created Date 5/30/2019 6:12:04 AM  
 Updated Date 5/30/2019 6:12:04 AM  
 First Reading Date 5/30/2019 6:55:47 AM  
 Last Reading Date 5/30/2019 6:08:01 PM

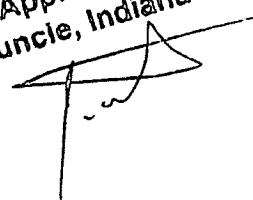
Statistics

# Readings 361  
 Mean 9.257 mils  
 Minimum 7.40 mils  
 Maximum 12.00 mils  
 Standard Deviation 0.921 mils  
 +3σ 12.02 mils  
 -3σ 6.49 mils  
 Coefficient of Variation 9.9%

Limits

High Limit 12.00 mils # Readings Above 0 (0.0%)  
 Low Limit 7.00 mils # Readings Below 0 (0.0%)

Epoxy Coating  
 Applied at  
 Muncie, Indiana





**BarSplice** PRODUCTS INC. REVIEWED BY  
 ENG. & APPROVED FOR MANUFACTURE  
 DATE 6/10/2019 HT# 7001726  
 SIG *John Morris* CODE 05RE 17N

**3M**  
**Certificate of**  
**Analysis**

3M Angleton

1508 East Cedar St.  
 Angleton, TX 77515

Customer:	COMMERCIAL METALS COMPANY		
3M Invoice Number:	BN33114		
Customer PO Number:	4501384678		
Date certificate prepared:	1-Apr-19		
<p>The 3M product listed below was produced in accordance with standard manufacturing processes for the product in effect at the time of manufacture. This is to certify that the lot(s) of SCOTCHKOTE 413 Fusion Bonded Epoxy Coating manufactured by 3M at Angleton, Texas, meets the requirements of the following standards. ASTM A 775/A 775M-07b (2014), ASTM A 884/A884M-14, ASTM A1078/A1078M-12 Type 1, AASHTO M284-09 and AASHTO M254-06 (2010). This coating, when applied to steel or iron in the U.S., meets the Buy America provision as set forth in FHWA 23 CFR 635.410 Section 1041(a) of the ISTEA. The Lot(s) of Scotchkote™ 413 is (are) chemically the same Material that was tested and certified by the third party lab.</p>			
3M Stock Number:	Catalog Number	Quantity:	
80-6116-1551-1 7010319949	413 SCOTCHKOTE RESIN 1800 LB SACK	39,600 LBS	
UPC Number:			
50051125612236 (1,800 Lb)			
Shelf Life 6 months from date of manufacture	Storage Condition for this Product: General Warehouse Storage (≤+27°C/80°F)		

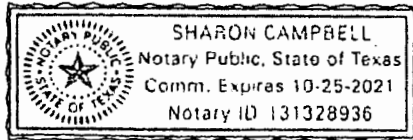
Test Property:	Test Method Number	Min Spec.	Max Spec	Units
Gel Time Average 380°F (193°C) ± 3°	TM-001	5.0	9.0	SECONDS
Passed Through 325 Screen (45 Micron)	TM-003			%
		32	42	
Moisture Content-Computrac Max 4000 XL	TM-004			%
			0.5	

Lot Number:	Date of Manufacture:	Expiration Date:	Batch Size In Lb.	Gel Time Average 380° F (193° C) +/- 3°	Passed Through 325 Screen (45 Micron) (Avge)	Moisture Content-Computrac Max 4000 XL (Avge)
9C25B	25-Mar-19	25-Sep-19	3,600	7.4	38	0.2
9C26A	26-Mar-19	26-Sep-19	1,800	7.6	35	0.1
9C26C	26-Mar-19	26-Sep-19	1,800	7.6	36	0.1
9C27A	27-Mar-19	27-Sep-19	7,200	7.6	39	0.1
9C27B	27-Mar-19	27-Sep-19	12,600	7.2	39	0.1

9C27C	27-Mar-19	27-Sep-19	10,800	7.6	39	0.1
9C28A	28-Mar-19	28-Sep-19	1,800	7.7	41	0.1
<b>Authorized By:</b> Lisa Skinner <i>Lisa Skinner</i>	<b>Title :</b>		<b>Date Signed:</b>			
	Quality Control		1-Apr-19			
Please contact your 3M Customer Service Representative if you have any questions.						

**Warranty and Limited Remedy:** Unless stated otherwise in 3M's product literature, packaging inserts or product packaging for individual products, 3M warrants that each 3M product meets the applicable 3M specifications at the time 3M ships the product. Individual products may have additional or different warranties as stated on product literature, package inserts or product packages. **3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE.** User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's application. If the 3M product is shown to be nonconforming within the warranty period, your exclusive remedy and 3M's sole obligation will be, at 3M's option, to replace the nonconforming 3M product or refund the purchase price.

**Limitation of Liability:** Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.



The foregoing document was acknowledged before me this 15<sup>th</sup> day of April, 2019  
*Sharon Campbell*  
Notary Public

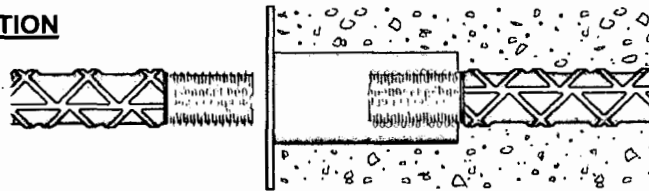
## INSTALLATION INSTRUCTIONS FOR FIELD ASSEMBLY OF BPI® BARSPLICER COUPLERS ON THREADED REINFORCEMENT BAR

*Internal coupler threads are protected by plastic plugs and external rebar threads are protected by plastic caps, both of which should be kept in place until the time of assembly. If missing, obtain the correct plugs/caps from the manufacturer or supplier. If you see minor external thread damage, try using a thread file to correct the problem. For other thread damage, it may be necessary to use a thread die tool. DO NOT TRY TO ASSEMBLE DAMAGED THREADS. You may cause premature binding. DO NOT USE THIS COUPLER IN CONJUNCTION WITH A REBAR WHICH IS LARGER OR SMALLER THAN THE INTENDED BAR SIZE. DO NOT USE WITH ANYTHING OTHER THAN UNIFIED NATIONAL COURSE (UNC) THREADS. STORE COUPLERS IN A CLEAN, DRY PLACE UNTIL READY TO INSTALL. When the bar cannot be turned, use a BPI® Barsplicer Position coupler or an alternate splice system such as the ZAP Screwlok®.*

- 1 If the Barsplicer coupler is placed first, make sure the internal coupler thread is protected from the concrete before pouring concrete around or near the coupler. If present, make sure the coupler flange is properly secured to the form. Make sure the bar is properly supported and tied off. If the threaded rebar is placed first, make sure the rebar thread is protected from the concrete before pouring concrete around or near the thread. DO NOT PLACE REINFORCING BAR OR COUPLER IF THE THREADS ARE DAMAGED AND CANNOT BE REPAIRED.

- 2 When joining the threaded rebar and Barsplicer coupler, remove the protective caps and plugs and then line up both sides as straight as possible as shown in the pre-assembled condition below.

### PRE-ASSEMBLED CONNECTION



Just before assembly, check both internal and external threads for cleanliness. Clean off any foreign matter. DO NOT USE CORROSIVE ACIDS. Any thread damage must be corrected as noted above before installation.

- 3 After the initial thread location, rotate the free rebar clockwise making sure that the threaded ends remain aligned. NOTE: If the threaded end of the rebar is bent, DO NOT ALIGN THE REBARS. ALIGN THE THREADS SO THAT THE THREADS SCREW TOGETHER. Continue to rotate the free rebar by hand. If you feel the threads starting to prematurely bind, DO NOT FORCE THEM. Shake the free end of the rebar while turning. Allow the free end of the rebar to rotate in its own natural circle. ASSEMBLE UNTIL THREADS ARE FULLY ENGAGED.

### ASSEMBLED CONNECTION



*If the threaded rebar end does not properly engage into the Barsplicer coupler during assembly, stop immediately. Disassemble the connection to determine the problem. Possible causes of mis-assembly may be: mis-matched thread sizes; bars rubbing against each other; contaminated threads (i.e. concrete, dirt, etc.); or threads that have been damaged. Reassemble only after the problem has been identified and corrected.*

- 4 To ensure the threads are fully engaged, use a pipe wrench or chain wrench to snug and tighten the assembly. Long lengths of rebar, especially large diameter bars, are heavy. To overcome this bar weight, it may be necessary to use an extension bar. As necessary, use the following wrench lengths as a guide: Bar sizes #4-#6 (13-19 mm) = 8-12" (20-30 cm) length; Sizes #7-#8 (22-25 mm) = 12-18" (30-45 cm) length; and Sizes #9-#11 (29-36 mm) = 18-24" (45-60 cm) length. DO NOT WIRE TIE BARS UNTIL AFTER FULL ASSEMBLY per step 5. In all cases, consider your own **personal safety** during installation. Make sure you are securely positioned and that you will not slip or fall during installation. Use only good quality wrenches that will not round-out.
- 5 Insert the threaded rebar end into the Barsplicer coupler, and turn clockwise until the connection is snug. Once threads are fully engaged, turn the threaded bar one half additional turn into the coupler using a pipe or chain wrench as described above. If a setting bar was supplied with the coupler already attached, no additional installation is required on that bar. If both sides of the coupler require rebar to be installed into it, tighten the first side as described before tightening the second side as described.
- 6 Inspect the splice for proper thread engagement. For Barsplicer threads, some variation in the number of exposed threads is natural due to thread tolerance build-up and thread run-out. In general, it is usual to see 0 to 1 threads after full assembly. Fully assembled threads can be double-checked by the application of a pipe wrench, which overcomes the weight of the bar as described above. **IT IS NOT NECESSARY TO USE A TORQUE WRENCH OR APPLY A HIGH TORQUE VALUE.**
- 7 When installing epoxy coated couplers and rebar, apply wrench to the rebar, not the Barsplicer coupler. Once installed, touch-up damaged areas with epoxy repair kit. Seal off the rebar at the point of entry of the rebar into the coupler using epoxy repair material.



P.O. Box 329  
Kenton, Ohio 43326  
Ph: 800-247-2307

Deliv. Receipt # 221201

Date: 9 5 19

Load # 63976

Trailer # 1030

Tractor # 413

Driver: Bob Coleman

B/L #: 09192354

Shipper: Sinco

Origin: Marion OH

Consignee: AMBURGDOR STEEL

Destination: CARRYSBURG NC

No. of Pcs.	Description	Weight	Rate	Total Charges
30	Steel	20,033		

0201 - 000201

Consignee Signature: W. J. ...

Date: \_\_\_\_\_

Thank You For This Shipment - We Appreciate Your Patronage





Ambassador Steel Fabrication LLC

Invoice No.:  
PSI368426A

# RETAIL SALES INVOICE

Customer PO No.:	Sales Order No.: SO140291A	Payment Terms: Net 30 Days	Payment Method:	Invoice Date: 09/18/19
------------------	-------------------------------	-------------------------------	-----------------	---------------------------

Freight:	Shipping Agent:	Business Unit: Mooresville
----------	-----------------	-------------------------------

Mail To:	Ship-To: NCDOT Northampton & Halifax Cos., NC - 203931 6920 NC 46 Garysburg, NC 27831 USA
----------	---

Description:	List 0018ED
--------------	-------------

Job Number:	00318115	NCDOT Northampton & Halifax Cos., NC - 203931 I-95 Reconstruction Project
-------------	----------	--

Item No.	Description	Quantity	Unit Price	Line Amt. (Excl. Tax)
CPE-BSF05	Barsplicer Flangd Coup Epx #5	224 EA		
REBAR60E	#5 Epoxy Threaded Tie Bars	1,402 LB		
<u>Bills of Lading</u>	<u>Release No.</u>			
BL277539A	0018ED			
Subtotal:				

<b>SALES INVOICE TOTAL</b>	(USD)
	7% tax
	Total

Shipping Per: \_\_\_\_\_ Accepted Per: \_\_\_\_\_  
(Please Print)

Please contact Helen Adkins for all billing questions  
p. 317-834-3434 ext 2147 email: hadkins@harrisrebar.com

A Service Charge of 1 1/2 % per Month (18% Per Annum) will be Charged on Overdue Accounts

Remit To: **Ambassador Steel Fabrication LLC**  
1342 South Grandstaff Drive Auburn, IN 46706

**Customer Copy**  
Do NOT accept new or changed remittance directions without calling (260) 927-3075 to confirm the legitimacy of the request.



## Packing List

Ship Date	Packing List No.	Page
8/27/2019	0064253	1 of 1

Date Printed: 8/27/2019  
Time Printed: 12:24:47PM

**Sold To:**  
HARRIS REBAR/AMBASSADOR STEEL  
3405 STONY SPRING CIRCLE  
LOUISVILLE, KY 40220  
USA

**Ship To:**

Sales Order No	Order Date	Customer P. O.	Ship Via
0163441	8/23/2019	318115/18ED	R&L LTL

Line/WT #	Item Number	Description	Ordered Qty	Shipped Qty	Backordered Qty
001	BS	BARSPLICER BS-B SIZE: #5 EPOXY COATED A615 GRADE 60 A = 36.000 IN. W/COUPLER, W/ FLANGE, W/THREAD PROTECTOR PLUG 590/#5 EPOXY THREADED TIE BARS	224	224	0
002	BS	BARSPLICER BS-H SIZE: #5 EPOXY COATED A615 GRADE 60 C = 36.000 IN. W/THREAD PROTECTOR CAP 591/#5 EPOXY THREADED TIE BARS <b>Lot Number:</b> EC01C Qty: 224 <b>Lot Number:</b> 17N Qty: 653 <b>Lot Number:</b> 17N Qty: 691	224	224	0

**Comments:** FOB: DAYTON, OH USA  
JESSIKA  
KEVIN NUNN  
NCDOT NORTHAMPTON & HALIFAX COS., NC-203931

**MILL CERTS**



**CERTIFICATE OF CONFORMANCE**

FOR BPI® TAPER THREADED GRIP-TWIST®, BARGRIP® XL, BUTTONHEAD,  
 ZAP SCREWLOK®, DOUBLE BARREL ZAP SCREWLOK®, ZAP T-LOK,  
 BPI® BARSPLICER, BARSPLICER DoughNUT

DATE	CUSTOMER	PURCHASE ORDER	ITEM	PROJECT NAME
8/27/2019	HARRIS REBAR/AMBASS	318115/18ED		NCDOT NORTHAMPTON
QUANTITY	PRODUCT	IDENTIFICATION	HEAT LOT NO	ASTM Spec or Mill Mark
224 EA	#5 THREAD EPOXY CPLR W/FL	5EW EC01C	DL18100116	ASTM A108-13
1344 FT	#5 EPOXY REBAR	5RE 17N	7001726	CMC
<b>TOTAL</b>				

This certifies upon the date shown hereon that the materials and design of couplers and headed devices listed above have shipped from BarSplice Products, Inc. (BPI) and comply with the general description and representations made in BPI literature and data sheet(s) in effect at the time of this issue and/or additional publications supplied as a result of special customer requirements.

Ferrous materials used in the manufacture of BPI's Splicing Systems are procured under BPI's ISO 9001 quality control system to conform to BPI specifications. Codes assigned to the product allow for traceability back to the original heat of steel and finished products comply with "Buy American" clauses. Code(s) and corresponding heat number(s) are on certified mill material test reports supplied with the order.

BPI's Splicing Systems are designed to mechanically splice (connect) or mechanically head reinforcing bars which conform to the latest requirements of ASTM A615 or ASTM A706. (Non-conforming rebars or those with missing/undersized/over-spaced deformations may require specially designed product depending upon specified strength requirements.)

Installed splices and headed devices are designed to exceed the strength requirements of "Building Code Requirements for Reinforced Concrete" (ACI318) and "Standard Specifications for Highway Bridges" (adopted by AASHTO). Correctly installed splices are capable of developing 125% x specified yield strength of Grade 60 rebar and/or meet/exceed other special specification(s) (if any) agreed in writing between BPI and its customer. Independent and in-house tensile tests have been performed on each of BPI's Splicing Systems. For headed devices, in-air testing has verified conformance with Class A/HA strength requirement listed in ASTM A970. The product must be installed in accordance with the latest edition of Splicing Manual or Installation Instructions (and any special supplements) supplied with the product which must be read and understood by the operator before use. Where epoxy coated splices and headed devices are used with epoxy coated bars, some touch-up and/or repair of the epoxy may be required. In accordance with project specifications, tensile tests may be required before production splices are made to verify correct usage, rebar grade, and operator proficiency.

Other terms and conditions are applicable as may have been previously supplied on quotations and order acknowledgments, either directly or to the dealer, distributor or representative. For the BPI® Barsplicer System, this Certificate of Conformance does not extend to rebars or threads which have not been supplied by Barsplice Products, Inc. When applicable, certification of epoxy coating is made by the epoxy coater. BARSPLICE PRODUCTS WILL BE PLEASED TO SUPPLY YOU WITH FURTHER INFORMATION IF REQUIRED.

8/27/2019
163441  
 Barsplice Products, Inc.                      Date                      Shop Order #

BarSplice Products, Inc., 4900 Webster Street, Dayton OH 45414, USA  
 Tel: (937) 275-8700 Fax: (937) 275-9566 E-mail: bar@barsplice.com FC-1513b Rev.D 9/12/2016

