BETHLEHEM STEEL INVOICE IMPLEMENTATION GUIDELINES

FOR
AMERICAN NATIONAL STANDARD
FOR ELECTRONIC BUSINESS DATA INTERCHANGE
INVOICE TRANSACTION SET (810)

VERSION 003
RELEASE 010

INTRODUCTION

THIS SECTION PROVIDES THE FORMAT AND ESTABLISHES THE DATA CONTENT OF AN INVOICE TRANSACTION SET AS DEFINED BY BETHLEHEM STEEL CORPORATION. THE INVOICE TRANSACTION SET PROVIDES FOR CUSTOMARY AND ESTABLISHED BUSINESS AND INDUSTRY PRACTICE RELATIVE TO BILLING FOR GOODS AND SERVICE PROVIDED.

Transaction set – 810 - INVOICE

DATA SEGMENT SEQUENCE FOR THE HEADING AREA

Segment Identifier	Title	Requirement Designator	Page Number	Used by Bethlehem Steel
ST	Transaction Set Header	M	810.05	Required
BIG	Beginning Segment for Invoice	M	810.05	Required
NTE	Note/Special Instructions	F		Not Accepted
CUR	Currency	O		Not Accepted
REF	Reference Numbers	O		Not Accepted
PER	Admin. Communication Contact	O		Not Accepted
N1	Name	O	810.07	Required
N2	Additional Name Information	O		Not Accepted
N3	Address Information	O		Not Accepted
N4	Geographic Location	O		Not Accepted
REF	Reference Numbers	O		Not Accepted
PER	Admin. Communication Contact	O		Not Accepted
ITD	Term of Sale/Deferred Terms	O	810.08	Required
DTM	Date/Time Reference	O		Not Accepted
FOB	F.O.B. Related Instruction	O		Not Accepted
PID	Product/Item Description	O		Not Accepted
MEA	Measurements	O		Not Accepted
PWK	Paperwork	O		Not Accepted
PKG	Marking, Packaging, Loading	O		Not Accepted
L7	Tariff Reference	O		Not Accepted

Transaction set – 810 - INVOICE

DATA SEGMENT SEQUENCE FOR THE DETAIL AREA

Segment Identifier	Title	Requirement Designator	Page Number	Used by Bethlehem Steel
IT1	Invoice Baseline Item Data	M	810.10	Required
CUR	Currency	O		Not Accepted
IT3	Additional Item Data	O		Not Accepted
TXI	Tax Information	O		Not Accepted
CTP	Pricing Information	O		Not Accepted
MEA	Measurements	O		Not Accepted
PID	Product / Item Description	O	810.12	Optional
MEA	Measurements	O		Not Accepted
PWK	Paperwork	O		Not Accepted
PKG	Marking, Packing, Loading	O		Not Accepted
P04	Item Physical Details	O		Not Accepted
REF	Reference Numbers	O		Not Accepted
PER	Admin. Communications Contact	O		Not Accepted
SDQ	Destination Quantity	O		Not Accepted
DTM	Date / Time Reference	O		Not Accepted
CAD	Carrier Detail	O		Not Accepted
L7	Tariff Reference	O		Not Accepted
ITA	Allowance, Charge or Service	O	810.13	Optional
TXI	Tax Information	O		Not Accepted
SLN	Subline Item Detail	O		Not Accepted
REF	Reference Numbers	O		Not Accepted
PID	Product/Item Description	O		Not Accepted
ITA	Allowance, Charge or Service	O		Not Accepted
N1	Name	O		Not Accepted
N3	Address Information	O		Not Accepted
N4	Geographic Location	O		Not Accepted
REF	Reference Numbers	O		Not Accepted
PER	Admin. Communications Contact	O		Not Accepted
TDS	Total Monetary Value Summary	M	810.15	Required
TXI	Tax Information	O		Not Accepted
CAD	Carrier Detail	O		Not Accepted
ITA	Allowance, Charge or Service	O		Not Accepted
TXI	Tax Information	O		Not Accepted
ISS	Invoice Shipment Summary	O	810.17	Optional
CTT	Transaction Totals	M	810.18	Required
SE	Transaction Set Trailer	M	810.19	Required

Transaction set – 810 – INVOICE

Segment: ST – TRANSACTION SET HEADER

Level: HEADING

Max use/loops: 1/NONE

Purpose: THE FIRST SEGMENT OF EACH TRANSACTION SET CONTAINING THE TRANSACTION SET IDENTIFIER AND CONTROL NUMBER.

General Information: THE TRANSACTION SET IDENTIFIER (ST01) IS INTENDED FOR USE BY THE TRANSLATION ROUTINES OF THE INTERCHANGE PARTNERS TO SELECT THE APPROPRIATE TRANSACTION SET DEFINITION (e.g., 810 SELECTS THE INVOICE TRANSACTION SET).

Examples: ST*810*0001 N/L

Elem id	Ded #	Name	Features	Comments
ST01	143	TRANSACTION SET ID CODE	M ID 03/03	USE “810”
ST02	329	TRANSACTION SET CTRL. NO.	M AN 04/09	A UNIQUE NUMBER ASSIGNED TO EACH TRANSACTION SET WITHIN A FUNCTIONAL GROUP. STARTING WITH 0001 AND INCREMENTING BY 1 FOR EACH SUBSEQUENT TRANSACTION SET

Transaction set – 810 – INVOICE

Segment: BIG – BEGINNING SEGMENT FOR INVOICE

Level: HEADING

Max use/loops: 1/NONE

Purpose: TO INDICATE THE BEGINNING OF THE INVOICE TRANSACTION SET AND TRANSMIT IDENTIFYING NUMBERS AND DATES.

General Information: BETHLEHEM STEEL RECOGNIZES THE NEED TO SUPPORT THE FOLLOWING INVOICE TRANSACTION SET PURPOSE – ORIGINAL, REPLACE, CONFIRMATION AND DUPLICATE.

Examples: BIG*970117*223456789**0800-0282952***FB N/L

Elem id	Ded #	Name	Features	Comments
BIG01	245	INVOICE DATE	M DT 06/06	
BIG02	76	INVOICE NUMBER	M AN 01/22	MAX 9 CHARACTER FOR BETHLEHEM
BIG03	323	PURCHASE ORDER DATE	O DT 06/06	N/A
BIG04	324	PURCHASE ORDER NUMBER	O AN 01/22	REQUIRED. SAME AS BEG03 ON PURCHASE ORDER. (LOC, DASH, ORDER NUMBER)
BIG05	328	RELEASE NUMBER	O AN 01/30	N/A (REQUIRE FOR VMI PROGRAM – MAX 3 CHAR)
BIG06	327	CHANGE ORDER SEQUENCE NUMBER	O AN 01/08	N/A
BIG07	640	INVOICE TYPE	O ID 02/02	REQUIRED

ACCEPTABLE CODE VALUES

- BE – BLANKET ORDER (ESTIMATE QUANTITY)
- RL – RELEASE
- FB – FINAL BILL

Transaction set –810 –INVOICE

Segment: N1 – NAME

Level: HEADING

Max use/loops: 1/200

Purpose: TO IDENTIFY A PARTY BY TYPE OF ORGANIZATION, NAME AND CODE.

General Information: WE USE DUN AND BRADSTREET DUN'S NUMBERS (DUNS) TO IDENTIFY BETHLEHEM LOCATION WHERE THIS IS SUFFICIENT.

THIS SEGMENT, USED ALONE, PROVIDES THE MOST EFFICIENT METHOD OF PROVIDING ORGANIZATIONAL IDENTIFICATION. TO OBTAIN THIS EFFICIENCY THE DUNS NUMBER MUST BE PROVIDED IN N104 BECAUSE IT IS USED AS A KEY TO A TABLE MAINTAINED BY BETHLEHEM STEEL.

Examples: N1*VN*ABC CO*1*007900129 N/L
N1*BT*BETHLEHEM STEEL CORP*1*001339092 N/L

Elem ID	Ded #	Name	Feature	Comments
N101	98	ENTITY IDENTIFIER CODE	M ID 02/02	
ACCEPTABLE CODE VALUES BT – BILL TO VN – VENDOR				
N102	93	NAME	O AN 01/35	REQUIRED
N103	66	ID CODE QUALIFIER	O ID 01/02	
ACCEPTABLE CODE VALUES 1 – DUNS NUMBER				
N104	67	ID CODE	O AN 02/17	WHEN N101 = 'VN' USE VENDOR'S DUNS NUMBER. WHEN N101 = 'BT' USE BETHLEHEM'S DUNS NUMBER (001339092).

Transaction set –810 –INVOICE

Segment: ITD – TERMS OF SALE/DEFERRED TERMS SALE

Level: HEADING

Max use/loops: 5/NONE

Purpose: TO SPECIFY TERMS OF SALE.

General Information: IF ITD03 OR ITD08 IS USED, ITD05 IS REQUIRED.

PERCENT AS USED IN ITD03 ARE TO BE REPRESENTED AS WHOLE NUMBERS AND DECIMALS AS INDICATED BY EXAMPLES BELOW:

PERCENT	REPRESENTED BY
TWELVE AND ONE HALF	12.5
SIX	6

Examples:

ITD*01*3*****30 N/L	(NET 30)
ITD*01*3*.5**10***750 N/L	(1/2% IN 10 DAYS 7.50 DISC AMT)
ITD*09*3 N/L	(PROXIMO)

Elem ID	Ded #	Name	Feature	Comments
ITD01	336	TERMS TYPE CODE	O ID 02/02	
ACCEPTABLE CODE VALUES 01 – BASIC 09 – PROXIMO				
ITD02	333	TERMS BASIS DATE CODE	O ID ½	3 = INVOICE DATE
ITD03	338	TERMS DISCOUNT %	O R 01/06	EXPRESSED AS A PERCENT
ITD04	370	TERMS DISCOUNT DUE DATE	O DT 06/06	N/A
ITD05	351	TERMS DISCOUNT DAYS DUE	O NO 01/03	
ITD06	446	TERMS NET DUE DATE	O DT 06/06	N/A
ITD07	386	TERMS NET DAYS	O NO 01/03	
ITD08	362	TERMS DISCOUNT AMOUNT	O N2 01/10	
ITD09	388	TERMS DEFERRED DUE DATE	O DT 06/06	N/A
ITD10	389	DEFERRED AMOUNT DUE	O N2 01/10	N/A
ITD11	342	% INVOICE PAYABLE	O R 01/05	N/A
ITD12	352	DESCRIPTION	O AN 01/80	N/A
ITD13	765	DAY OF MONTH	O NO ½	N/A
ITD14	107	PAYMENT METHOD CODE	I ID 01/01	N/A

Transaction set –810 –INVOICE

Segment: IT1 – BASELINE ITEM DATA

Level: DETAIL

Max use/loops: 1/200,000

Purpose: TO SPECIFY BASIC AND MOST FREQUENTLY USED LINE ITEM DATA FOR THE INVOICE AND RELATED TRANSACTIONS.

General Information:

1. THIS SEGMENT OCCURS ONCE FOR EACH ITEM – MANDATORY. IT SHOULD OCCUR AT LEAST ONCE WITHIN THE 810 TRANSACTION SET.

2. IT102 AND IT104 ARE BOTH BASED ON THE UNIT OF MEASURE IN IT103.

3. IT103 UNIT OF MEASURE CODE MUST BE VALID IN BETHLEHEM STEEL'S PURCHASING SYSTEM AND WHEN POSSIBLE SHOULD BE THE SAME AS THE UNIT OF MEASURE ON THE PURCHASE ORDER.

4. USE 235/234 PAIRS TO INDICATE BETHLEHEM' S MCC NUMBER AND VENDOR'S ITEM NUMBER AS AVAILABLE. SPECIFY BETHLEHEM'S MCC NUMBER IN THE FIRST 235/234 PAIR, AND THE VENDOR'S PART NUMBER IN THE SECOND AVAILABLE 235/234 PAIR

5. EITHER IT102 OR IT104 MAY BE EXPRESSED AS NEGATIVE TO CALCULATE A CREDIT AMOUNT.

Examples:

IT1*01*5*EA*1.25**BP*G0050101 N/L
IT1*02*-7*EA*1.15**BP*GOO50103 N/L
IT1*03*1*EA.95**BP*NONCATLG*VP*172-6587 N/L
IT1*05*5.25*NT*65.83**BP*C0082154 N/L

Elem ID	Ded #	Name	Feature	Comments
IT101	350	PO LINE NUMBER	O AN 01/06	REQUIRED – PO LINE ITEM NUMBER 2 BYTES
IT102	358	QUANTITY INVOICED	M R 01/10	
IT103	355	UNIT OF MEASUREMENT CODE	M ID 02/02	QUALIFIES QUANTITY ORDERED IN IT102
IT104	212	UNIT PRICE	M R 01/14	
IT105	639	BASIS OF UNIT PRICE CODE	O ID 02/02	
IT106	235	PRODUCT/SERVICE ID QUALIFIER	O ID 02/02	USE 'BP' (BUYER'S PART #) IF ITEM IS CATALOGED AND BETHLEHEM'S MCC IS KNOWN (EVEN IF MCC # IS 'NONCATLOG')

				USE ‘VP’ (VENDOR’S PART #) IF ITEM IS NON-CATALOGED.
IT107	234	PRODUCT/SERVICE ID	O AN 01/30	USE VENDOR PART # IF IT106 = ‘VP’
IT108	235	PRODUCT/SERVICE ID QUALIFIER	O AN 01/30	
	NOTE: IT108 THRU IT125 PROVIDE 9 ADDITIONAL PAIRS OF PRODUCT/SERVICE ID QUALIFIER (235) AND PRODUCT/SERVICE ID (234) USED IN THE SAME MANNER AS IT106 AND IT107.			
IT125	234	PRODUCT/SERVICE ID	O AN 01/30	

BETHLEHEM STEEL INVOICE IMPLEMENTATION GUIDELINES

Transaction set –810 –INVOICE

Segment: PID – PRODUCTION DESCRIPTION

Level: DETAIL

Max use/loops: 1/1000

Purpose: TO DESCRIBE A PRODUCT OR PROCESS IN CODED OR FREE FORM FORMAT.

General

Information: THIS SEGMENT SHOULD BE USED WHEN BETHLEHEM'S MCC NUMBER IS NOT KNOW FOR AN ITEM OR WHEN FURTHER DESCRIPTION IS NECESSARY TO QUALITY THE PRODUCT OR PROCESS. SINCE THIS SEGMENT CONTAINS FREE-FORM DATA, USE WITH DESCRIPTION.

Examples: PID*F*08*1/2 L HARD COPPER TUBE 20 FT LENGTH N/L
PID*F*08*BORED TO 4.250, 1" x ½" KEY N/L

Elem ID	Ded #	Name	Feature	Comments
PID01	349	ITEM DESCRIPTION TYPE	M ID 01/01	F = FREEFORM
PID02	750	PROD/PROC CHARACTERISTIC CODE	O ID 02/03	08 = PRODUCT INFORMATION
PID03	559	ASSOCIATION QUALIFIER	O ID 02/02	N/A
PID04	751	PRODUCT DESCRIPTION CODE	O ID 01/12	N/A
PID05	352	DESCRIPTION	O AN 01/80	
PID06	752	SURFACE/LAYER POS. INDICATOR	O ID 02/02	N/A

Transaction set –810 –INVOICE

Segment: ITA – ALLOWANCE OR CHARGE

Level: DETAIL

Max use/loops: 1/10

Purpose: TO SPECIFY ALLOWANCE, CHANGES OR SERVICES.

General Information: THIS SEGMENT SHOULD BE USED TO EXPRESS SPECIAL CHARGES SUCH FREIGHT, PALLETS, CONTAINERS, ETC. HAVING NO QUANTITY OR UNIT PRICE.

USUALLY THESE CHARGES DO NOT RELATE TO A SPECIFIC ITEM ON THE PURCHASE ORDER AND THEREFORE HAVE NO CORRESPONDING IT1 (LINE ITEM) SEGMENT. IN THE CASE, THEY SHOULD BE PLACED AFTER THE LAST IT1 SEGMENT IN THE 810 TRANSACTION SET. IF THEY CAN BE RELATED TO A SPECIFIC LINE ITEM THEN THEY SHOULD BE PLACED ON AN ITA SEGMENT FOLLOWING IT1 SEGMENT.

Examples: ITA*C**DL*02***3900 N/L ($39 FREIGHT CHARGE)

Elem ID	Ded #	Name	Feature	Comments
ITA01	248	ALLOWANCE OR CHANGE INDICATOR	M ID 01/01	‘C’ – CHARGE
ITA02	559	AGENCY QUALIFIER CODE	O ID 02/02	N/A
ITA03	560	SPECIAL SERVICE CODE	O ID 02/10	N/A
	SUGGESTED CODE VALUES CI – CUTTING CHARGE (BORING CHARGE) R0076 – RUNTIME CONTAINER (DEPOSITS) DL OR FC – DELIVERY (FREIGHT CHARGE) IN – INSURANCE PL – PALLETIZING AND PALLET CHARGES ST – TAX LIABILITY HC – HANDLING SERVICE (TIRE RECYCLE FEE) SS – TAX LIABILITY – ONE TIME (EXCISE TAX)			
ITA04	331	ALLOWANCE OR CHARGE METHOD OF HANDLING CODE	M ID 02/02	‘02’ OFF INVOICE
ITA05	341	ALLOWANCE OR CHARGE NUMBER	O AN 01/16	N/A
ITA06	359	ALLOWANCE OR CHARGE RATE	O R 01/09	N/A
ITA07	360	ALLOWANCE OR CHARGE TOTAL AMT	O N2 01/09	TOTAL AMOUNT OF DISCOUNT OR CHARGE FOR THIS SEGMENT USE ONLY
ITA08	378	ALLOWANCE/CHARGE % QUALIFIER	O ID 01/01	N/A
ITA09	332	ALLOWANCE OR CHARGE %	O R 01/06	N/A
ITA10	339	ALLOWANCE OR CHARGE	O R 01/10	

		QUANTITY		
ITA11	355	UNIT OF MEASUREMENT CODE	O ID 02/02	
ITA12	280	QUANTITY	O R 01/10	N/A
ITA13	352	DESCRIPTION	O AN 01/80	N/A
ITA14	150	SPECIAL CHARGE CODE	O ID 03/03	N/A

Transaction set –810 –INVOICE

Segment: TDS – TOTAL MONETARY VALUE SUMMARY

Level: SUMMARY

Max use/loops: 1/NONE

Purpose: TO SPECIFY THE TOTAL INVOICE DISCOUNT AND AMOUNTS.

General Information: TDS02 IS REQUIRED IF THE MONETARY VALUE SUBJECT TO DISCOUNT IS NOT EQUAL TO THE MONETARY VALUE OF TDS01.

Examples: TDS*10000000*9950000*9801000*199000 N/L

TDS01 $99,500.00 MATERIAL (NET ALLOWANCE, BUT INCLUDING CHARGES)
\+ 500.00 FREIGHT
\----------------
$100,000.00

TDS02 $99,500.00 MATERIAL (NET OF ALLOWANCE BUT INCLUDING CHARGES)

TDS03 $ 99,500.00 MATERIAL
\- 1,990.00 DISCOUNT
\----------------
$ 97,510.00
\- 500.00 FREIGHT
\-----------------
98,010.00

TDS04 $1,990.00 DISCOUNT (ASSUME 2% DISCOUNT)

Elem ID	Ded #	Name	Feature	Comments
TDS01	361	TOTAL INVOICE AMOUNT	M N2 01/10	TOTAL INVOICE AMOUNT (INCLUDING SPECIAL CHARGES, TAX, ETC.) BEFORE ANY DISCOUNT IS APPLIED
TDS02	390	AMT SUBJECT TO TERMS DISC	O N2 01.10	N/A
TDS03	391	DISCOUNTED AMOUNT DUE	O N2 01/10	REQUIRED IF THERE IS AA DISCOUNT. TOTAL INVOICE AMOUNT AFTER DISCOUNT HAS BEEN APPLIED. (APPLY DISCOUNT TO ALL CHARGES

				INCLUDING SPECIAL CHARGES, EXCEPT FREIGHT AND TAX CHARGES).
TDS04	362	TERM DISCOUNT AMOUNT	O N2 01/10	REQUIRED IF THERE IS A DISCOUNT. TOTAL AMOUNT OF DISCOUNT APPLIED

Transaction set –810 –INVOICE

Segment: ISS – INVOICE SHIPMENT SUMMARY

Level: SUMMARY

Max use/loops: 1/NONE

Purpose: TO SPECIFY SUMMARY DETAILS OF TOTAL ITEMS OF QUANTITY, WEIGHT, AND VOLUME.

General Information: ISS01 AND ISS02 ARE USED BT BETHLEHEM.

ISS03 THRU ISS06 ARE NOT USED.

THE NUMBER OF UNITS SIPPED (ISS01) IS THE SUM OF THE VALUE OF QUANTITIES INVOICED (IT102) FOR EACH IT1 SEGMENT.

Examples: ISS*5*EA N/L

Elem ID	Ded #	Name	Feature	Comments
ISS01	382	NUMBER OF UNITS SHIPPED	O R 01/10	ACCUMULATION OF VALUE OF QUANTITY (IT102)
ISS02	355	UNIT OF MEASURE CODE	O ID 02/02	REQUIRED BY BETHLEHEM
ISS03	81	WEIGHT	O R 01/08	N/A
ISS04	355	UNIT OF MEASUREMENT CODE	O ID 02/02	N/A
ISS05	183	VOLUME	O R 01/08	N/A
ISS06	355	UNIT OF MEASUREMENT CODE	O ID 02/02	N/A

Transaction set –810 –INVOICE

Segment: CTT – TRANSACTION TOTALS

Level: SUMMARY

Max use/loops: 1/NONE

Purpose: TO TRANSMIT A HASH TOTAL FOR A SPECIFIC ELEMENT IN THE TRANSACTION SET.

General Information: CTT01 AND CTT02 ARE USED BY BETHLEHEM

CTT03 THRU CTT07 ARE NOT USED.

THE NUMBER OF LINE ITEMS (CTT01 IS THE ACCUMULATION OF THE NUMBER OF PO1 SEGMENTS. IF USED, HASH TOTAL (CTT02) IS THE SUM OF THE VALUE OF QUANTITIES ORDERED (IT102) FOR EACH IT1 SEGMENT.

Examples: CTT*7*84 N/L

Elem ID	Ded #	Name	Feature	Comments
CTT01	354	NUMBER OF LINE ITEMS	M NO 01/06	TOTAL NUMBER OF IT1 SEGMENTS
CTT02	347	HASH TOTAL	O R 01/10	ACCUMULATION OF VALUE OF QUANTITY (IT102) REQUIRED BY BETHLEHEM
CTT03	81	WEIGHT	O R 01/08	N/A
CTT04	355	UNIT OF MEASUREMENT CODE	O ID 02/02	N/A
CTT05	183	VOLUME	O R 01/08	N/A
CTT06	355	UNIT OF MEASUREMENT CODE	O ID 02/02	N/A
CTT07	352	DESCRIPTION	O AN 01/80	N/A

Transaction set –810 – INVOICE

Segment: SE – TRANSACTION SET TRAILER

Level: SUMMARY

Max use/loops: 1/NONE

Purpose: TO INDICATE THE END OF THE TRANSACTION SET AND PROVIDE THE COUNT OF THE TRANSMITTED SEGMENTS OF EACH TRANSACTION SET.

General Information: THE NUMBER OF INCLUDED SEGMENTS IS THE TOTAL OF ALL SEGMENTS USED IN THE TRANSACTION SET INCLUDING THE ST AND SE SEGMENTS.

THE TRANSACTION SET CONTROL NUMBER IN THE TRAILER MUST MATCH THE SAME ELEMENT VALUE IN THE TRANSACTION SET HEADER (ST02).

Examples: SE*77*0001 N/L

Elem ID	Ded #	Name	Feature	Comments
SE01	96	NUMBER OF INCLUDED SEGMENTS	M NO 01/06	
SE02	329	TRANS. SET CONTROL NO.	M AN 04/09	USE VALUE IN ST02