

Title: **Siemens Building Technologies Product and Carton Bar Coding Requirements and Guidelines for Incoming Material**

Abstract: The Purpose of this document is to provide the general procedures for SBT suppliers on the proper way to identify incoming material.

Key Words: Bar Code, Carton, Purchasing, Vendor, Product , Data Matrix, DMC

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TABLE OF CONTENTS

1. REVISION HISTORY	6
2. RELATED DOCUMENTS	10
3. Introduction	11
3.1 Purpose	11
3.2 Scope	11
4. Labels and Packing Lists– Carton, Shipping, Pallet.....	12
4.1 Label Stock and Colors	12
4.2 Inner Carton Labels	12
4.2.1 Domestic Inner Carton Labels	12
4.2.2 International Inner Carton Labels	12
4.3 Outer Carton Labels.....	12
4.4 Master Pack Labels	13
4.5 Adhesives for Returnable Containers	13
4.6 Packing List.....	13
4.7 Special Circumstances	13
5. Bar Code Symbology Specifications	14
5.1 Bar Coding	14
5.2 Coding Density and Dimensions.....	14
5.3 Reflectivity and Contrast	14
5.4 Check Digits	14
5.5 Inner Pack Labels	14
5.6 Outer Carton and Master Labels.....	14
5.7 Quality Assurance Requirements	14
5.8 Data Matrix Bar Code (DMC) Requirements	15
6. Data Area Characteristics/Size – Global Inner Carton Label Only (4" X 3") or (3.5" X 2.5")	16
6.1 Data Areas and Titles	16
6.1.1 Siemens Logo - Field 1.....	16
6.1.2 Main Description - Field 2.....	16
6.1.2.1 Main Description – Foreign Languages - Fields 3 thru 6.....	16
6.1.3 Additional Description Text - Fields 7 & 8.....	16
6.1.4 Part Number and Barcode - Fields 10 thru 12.....	16
6.1.5 EAN / UPC Barcode - Field 9	17
6.1.6 Product Description 1 thru 4	17
6.1.7 Revision Level - Fields 24 thru 26	17
6.1.8 Date Code Field - Fields 21 thru 23.....	17
6.1.9 Vendor - Fields 36 thru 38	17
6.1.10 Black Box - Field 17	17
6.1.11 Quantity - Fields 18 thru 20	18
6.1.12 Country of Origin - Fields 15 & 16	18
6.1.13 Serial Number - Fields 33 thru 35.....	18
6.1.14 Hardware Revision - Fields 27 thru 29	18
6.1.15 Software / Firmware Revision - Fields 30 thru 32	19
6.1.16 Text Technical Information - Field 39	19
6.1.17 DMC Barcode	19
The DMC data separator is the "+" sign. This symbol will be used to generate the DMC code. It is to be inserted before every Data Identifier in the barcode, except the first one. See the follow example of a sample barcode string for the 10 mandatory fields.	19
7. Data Area Characteristics/Size – Outer Carton and Master PACK Labels Only – Domestic Suppliers Only.....	23

7.1	Data Areas and Titles	23
7.1.1	Supplier Address	23
7.1.2	Supplier Number	23
7.1.3	Part Number	23
7.1.4	Description	24
7.1.5	Revision Level	24
7.1.6	Purchase Order Number	24
7.1.7	Gross Weight	24
7.1.8	Quantity	24
7.1.9	Date of Manufacture	24
7.1.10	FIFO / Ship Date	24
7.1.11	Container Type and Quantity	25
7.1.12	Reserved	25
8.	Outer Carton and Master PACK Labels Only – For Global Suppliers and Optional for Domestic Suppliers.....	29
9.	Packing Requirements.....	33
9.1	General Requirements	33
9.2	Preferred Packaging Materials.....	33
9.2.1	<i>Packaging Material Hazardous Content (Heavy Metals)</i>	34
9.3	Carton Requirements	34
9.3.1	<i>Burst Strength</i>	34
9.3.2	<i>Temperature, Humidity & Special Considerations</i>	35
9.3.3	<i>Shipping Non-Palletized Cartons</i>	35
9.4	Shipment Packing Slip Information	35
10.	Pallet Requirements	36
10.1	Pallet Ratings	36
10.2	Phytosanitary Pallets	36
10.3	Normal Pallets	37
10.4	2-Way Entry Pallets	37
11.	Palletization Restrictions and General Rules	38
11.1	Basic Rules	38
11.2	Mixed Part Pallets	39
12.	PRODUCT COUNTRY OF ORIGIN LABEL.....	40
12.1	Pass Through (Finished Goods) Requirements	40
12.2	Stockable Components Requirements	40
12.3	Format	40
13.	Data Matrix Bar Code (DMC).....	41
13.1	Background	41
13.2	Objectives	41
13.3	Target audience	41
13.4	Scope	41
14.	Documents.....	42
14.1	Reference documents	42
15.	Abbreviations	43
16.	DMC Label Specifications.....	44
16.1.1	Labels	44
16.1.2	Label Material	44
16.1.2.1	Polyester	44
16.1.2.2	Polyimide.....	44
16.1.3	Label Size	44

16.1.3.1	DMC – No Tear-off.....	44
16.1.3.2	DMC – With Tear-off	44
16.1.4	Label Source.....	44
16.1.5	Special Tear-Off Labels	44
16.2	DMC Label Ink	45
17.	Data Matrix Codes	46
17.1	Definition of terms	46
17.2	Definition of identifiers & application table	47
17.3	Coding and human readable text of code content	48
17.4	Examples for data matrix bar coding with human readable text.....	52
17.4.1	Example of a FIRE product	52
17.4.2	Example of a FIRE product with P2 ID	52
17.4.3	Example of a COMFORT product	52
18.	Appendix.....	53
18.1	Appendix A.....	53
18.1.1	System, Software and Printers	53
18.1.2	Printers	53
18.1.3	Software.....	53
18.1.3.1	BarTender Basic	53
18.1.3.2	BarTender Professional	54
18.2	Appendix B.....	55
18.3	Appendix C.....	55
18.3.1	Armor AXR7+ Part # T12833ZA.....	55
18.3.2	Identco TTRR-D Part # TTRD-D-2.36Z	56
18.4	Appendix D.....	56
18.5	Appendix E.....	56
18.6	Appendix F	57
19.	Handling non-conformity / quality violation	58
20.	Release notice	59
21.	Release notice	60
22.	Release notice	61
23.	Release notice	62
24.	Release notice	63
25.	Release notice	64
26.	Release notice	65
27.	Release notice	66
28.	Release notice	67
29.	Release notice	69

LIST OF FIGURES AND TABLES

Figure 1: Sample Global Inner Carton20

Figure 2: Sample Outer Carton Label, Minimum of 6.5” x 4.0”25

Figure 3: Sample Master Pack Label, Minimum of 6.5” x 4.0”26

Figure 4: Outer Carton Label Locations.....27

Figure 5: Outer Pack. Master Pack Labels and Packing Slip Locations.....28

Table 1 : Global Label Field Size Specifications21

1. REVISION HISTORY

REVISION	DATE	AUTHOR	DESCR OF CHANGE
Revision 0.1	28 November, 2006	Dave Rubin	Initial creation
Revision 1	27 December, 2006	Dave Rubin	Published; Document Status: Workflow Initiated
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Revision 4	13 August, 2008	Mark Junge	Published; Document Status: UNDER CHANGE CONTROL. Routed for Approval
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Revision 11	02 April, 2009	Dave Rubin	Published; Document Status: APPROVED.
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Revision 31	25 June, 2020	D. Rubin	Published; Document Status: APPROVED.

2. RELATED DOCUMENTS

[1]
[2]

3. Introduction

3.1 Purpose

The purpose of this document is to provide SBT suppliers the correct requirements and formats for all labels, label placement, cartons, pallets and palletization for all incoming material from individual cartons to multiple pallets.

3.2 Scope

The scope of this document relates to all labels, packing, pallets and palletization of all purchased production and engineering sample material used to build existing and future products at Siemens Buffalo Grove, Illinois facility and also Pass Through (Finished Goods) items which are received and then shipped directly to SBT end customers.

4. Labels and Packing Lists– Carton, Shipping, Pallet

Sections 4 thru 7 of this document refer to labels that are to be applied to cartons, overpack cartons and pallets.

Section 12 thru XX of this document refers to Product Country of Origin labeling and Data Matrix Barcode labels that are to be applied directly to the product.

4.1 Label Stock and Colors

The label must be white in color made of paper with a permanent adhesive, unless the shipping container is re-usable, then see Section 4.5 below. Adhesive types can be pressure sensitive or dry gummed as long as adherence to the package substrate is assured and application is wrinkle free. All labels and adhesives must be RoHS compliant.

Printing should be done on a suitable bar-code printer. All inks must be black and water resistant to avoid damage to the label by environmental elements in shipping. All inks must be RoHS compliant.

4.2 Inner Carton Labels

4.2.1 Domestic Inner Carton Labels

The standard Siemens label must be 4.0-in. wide by 3.0-in. high.

This label is for Pass Through (Finished Goods) parts that are received directly from a vendor and are saleable to our customers without SBT factory interaction. It is required that the proper Country of Origin is printed in this label. Size exceptions can be made thru Siemens procurement.

4.2.2 International Inner Carton Labels

The standard Siemens label must be 4.0-in. wide by 2.0-in. high or 3.0-in. wide by 2.0-in. high.

This label is for Pass Through (Finished Goods) parts that are received directly from a vendor and are saleable to our customers without SBT factory interaction. It is required that the proper Country of Origin is printed in this label. Size exceptions can be made thru Siemens procurement.

4.3 Outer Carton Labels

The standard Siemens label must be 6.5-in. wide by 4.0-in. high, minimum. There are to be two (2) identical labels in adjoining corners as shown in Figure 6. These labels would be applied to the outside of an outer carton, such as an individual carton on a master packed skid. This label will include the total number of inner cartons in the outer carton of this shipment containing a specific part

number. And the product inside would either be stockable piece parts that are not saleable directly to Siemens end customer or Pass Through parts that are saleable and would contain Inner carton labels inside on the individual parts.

4.4 Master Pack Labels

The standard Siemens label must be 6.5-in. wide by 4.0-in. high, minimum. These labels would be applied to the outside of a Master Pack, such as a shrink wrapped skid with multiple cartons inside or a larger carton with multiple inner packs inside. This label will include the total number of master pack items in the shipment. The product inside would either be stockable piece parts that are not saleable directly to a Siemens end customer and that carton would use an Outer carton label or parts that are directly saleable to our customer and would use the Inner carton label.

4.5 Adhesives for Returnable Containers

Must be removable type pressure sensitive adhesive based on synthetic elastomers featuring moderately high initial tack, good resistance to static shear, a high level of ultimate adhesive, and CLEAN removal. All label adhesives must be RoHS compliant.

4.6 Packing List

All packing lists should be placed on the front or side of cartons or pallets. No packing list should be placed on the top of a carton or pallet as visibility is reduced. All packing lists should be enclosed in an industry standard adhesive backed plastic pouch that seals the packing list in place.

4.7 Special Circumstances

If the special label cannot be affixed to the package/container because of container size or design, special arrangements will be required. Contact Siemens Procurement under these circumstances so that they can be discussed with the Siemens Label and Packaging Engineer.

5. Bar Code Symbology Specifications

5.1 Bar Coding

Vendor is responsible to make sure all barcodes scan properly before shipment. Vendor will be responsible for re-working all lots of material that arrive with improperly formatted barcodes.

All bar codes must be type "Code 128 – Subset B" with a leading and trailing quiet zone of 0.15 in. minimum width.

An alternate bar code format is:

Bar code type "Code 3 of 9 – Full ASCII" (Code 39) with a leading and trailing quiet zone of 0.15 in. minimum width. The bar code must conform to the bar code symbology standard for Code 39, published by the Automotive Industry Action Group (AIAG B-3 03.00 793).

In addition to these barcodes, international products need to have a separate EAN barcode. The barcode format is EAN-13. The EAN number will be provided by Siemens Procurement if needed.

5.2 Coding Density and Dimensions

For each bar code symbol, the average width of the narrow elements must be within the range of 0.013 to 0.017 inches. The ratio of the nominal width of the wide elements to the nominal width of the narrow elements must be 3:1 with an allowable range of 2.8:1 to 3.2:1.

5.3 Reflectivity and Contrast

The printed bar code symbol must meet the reflectivity and contrast requirements specified in section 4.1 of AIAG-B-1, at all electromagnetic wave lengths from B633 to B900 nanometers.

5.4 Check Digits

Check digits must not be used in the bar codes.

5.5 Inner Pack Labels

The bar heights must be a minimum of 0.25 inches unless defined otherwise.

5.6 Outer Carton and Master Labels

The bar heights must be a minimum of 0.35 inches.

5.7 Quality Assurance Requirements

It is the responsibility of the supplier to provide bar code labels that meet these specifications.

5.8 Data Matrix Bar Code (DMC) Requirements

General specification requirements for the Data Matrix barcode should be referenced from Section 19 of this document.

The carton label DMC density should be adjusted to allow a maximum size of approximately 0.750" x 0.750" square. This will allow for all required fields for the carton label to fit on the label.

6. Data Area Characteristics/Size – Global Inner Carton Label Only (4" X 3") or (3.5" X 2.5")

See Figure 1

Siemens has adopted a new inner carton label format. This format is based upon a Siemens global standard. It will be the only inner carton label approved after April 2019.

6.1 Data Areas and Titles

There are twelve areas for each label: Siemens Logo, Main Description, Part Number and Bar Code, Siemens Global Part Number and Bar Code, Product Description Field, Revision Level, Date Code, Checked By, Address Quantity and Country of Origin,

All bar codes must be directly above the human readable characters in all data areas.

6.1.1 Siemens Logo - Field 1

The Siemens Logo should be printed using the official Siemens True Type Logo font in 12 point Bold Typeface. This font will be available thru Siemens Procurement.

6.1.2 Main Description - Field 2

Should be the Siemens purchased part description from the purchase order – Unless otherwise instructed by Siemens.

6.1.2.1 Main Description – Foreign Languages - Fields 3 thru 6

Main Descriptions in German, French, Spanish and Chinese if required will be supplied from an approved list by Siemens procurement. No supplier translated descriptions may be used.

6.1.3 Additional Description Text - Fields 7 & 8

If Siemens supplies additional text descriptions. It will print I these 2 fields.

6.1.4 Part Number and Barcode - Fields 10 thru 12

Must be Siemens designated part number in the correct format, including all special characters. This should be a Code 128 bar code. Barcode will be preceded by a "1P" designator. Human readable text will include a space between all designators and data fields

6.1.5 EAN / UPC Barcode - Field 9

Procurement will supply the UPC (Universal Product Code or European Article Number) if one exists. If this field is required, the proper barcode format will be required.

6.1.6 Product Description 1 thru 4

This information will be provided thru Siemens Marketing and Procurement (If required).

6.1.7 Revision Level - Fields 24 thru 26

This is the engineering revision date of the particular part.

“2PFS” is the data identifier for the Revision – Field 24

“VER” is the text field” - Field 25

Field 26 is the actual revision supplied from the vendor according to the purchase order.

6.1.8 Date Code Field - Fields 21 thru 23

This is the date of manufacture of the particular part. It should be expressed in a date format of YYYYMMDD Where YYYY is the 4 digit year and MM is the numeric value of the month and DD is the date of the week.

“16D” is the data identifier for the date – Field 21

“DATE” is the text field” - Field 22

Field 23 is the actual numeric date according to the format above.

6.1.9 Vendor - Fields 36 thru 38

This is the vendor 8 digit SAP identification number.

“V” is the data identifier for the vendor – Field 36

“SPLR” is the text field” - Field 37

Field 38 is the actual numeric value for each supplier.

6.1.10 Black Box - Field 17

This will be a fixed- filled Black box approximately 0.200” high x 0.875” wide. The quantity text fields 18 – 20 described below will print in white on top of the box.

6.1.11 Quantity - Fields 18 thru 20

This is the quantity inside the carton (typically 1) but multi-packs could be higher.

“Q” is the data identifier for the quantity – Field 18

“QTY” is the text field” - Field 19

Field 20 is the actual quantity in the carton.

Note: These fields should be printed in WHITE. Typically the barcoding software will allow you to select “White on Black” which will automatically create the black box.

6.1.12 Country of Origin - Fields 15 & 16

Origin must be filled in by vendor showing where the part was manufactured. Origin must spell out country name in way that is easy for a US resident to interpret i.e. US or USA is acceptable.

Use of ISO abbreviations such as “DE” is not acceptable and the country name should be spelled out fully such as Germany. Prefix verbiage such as “Made in” or “Assembled in” are NOT acceptable.

6.1.13 Serial Number - Fields 33 thru 35

If the product has a serial number it will print in this field.

“S” is the data identifier for the Serial Number – Field 33

“SN” is the text field” - Field 34

Field 35 is the actual serial number of the product.

6.1.14 Hardware Revision - Fields 27 thru 29

If the product contains a separate revision for hardware use this field. Typically there is only a product revision, but in certain cases (engineering or procurement will advise) if there is a separate revision that must be noted for hardware revision.

“2PHW” is the data identifier for the Hardware Revision – Field 27

“HW” is the text field” - Field 28

Field 29 is the actual hardware revision. Not SAP product revision in Fields 24 thru 26.

6.1.15 Software / Firmware Revision - Fields 30 thru 32

If the product contains pre-programmed software or firmware, this is the revision of the main software or firmware loaded into the device.

“2PFW” is the data identifier for the Hardware Revision – Field 30

“FW” is the text field” - Field 31

Field 32 is the actual main software / firmware revision loaded into the device. Examples may be “3.12” or “02.05.0024” as defined by the bill of materials.

This is the same revision that is required to be printed on the DMC label in sections 15 thru 20 of this document.

6.1.16 Text Technical Information - Field 39

This optional field is reserved for any additional technical information that the drawing may require be added to this label.

6.1.17 DMC Barcode

The DMC barcode contains the following mandatory fields. 11, 12, 18, 20, 21, 23, 24, 26, 36 and 38. Fields 27, 29 30 and 32 are optional depending if the part has the,

The DMC data separator is the “+” sign. This symbol will be used to generate the DMC code. It is to be inserted before every Data Identifier in the barcode, except the first one. See the follow example of a sample barcode string for the 10 mandatory fields.

1PS54321-A5-A1+Q1+16D20181031+2PFS02+V30015874

Figure 1: Sample Global Inner Carton Label – 3.5" x 2.5"

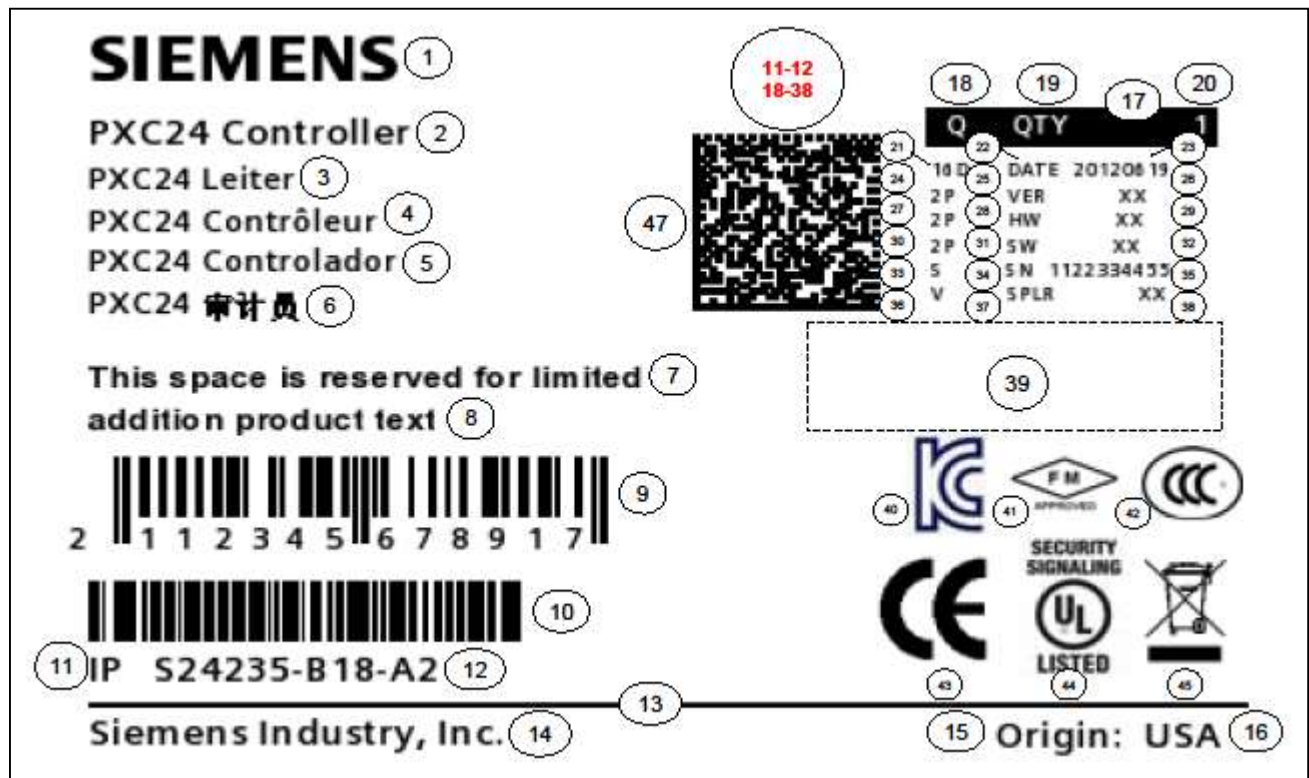


Table 1: Global Label Field Size Specifications.

FIELD	DESCRIPTION	TYPE OF EXPRESSION	FONT	FONT SIZE
1	Siemens Logo	Variable Field - 8 chr. Max	SIEMENS-Logo	12 Regular
2	Main Product Description (English)	Variable Field - 40 chr. Max	Siemens Sans	7 Bold
3	Main Product Description (German)	Variable Field - 40 chr. Max	Siemens Sans	6 Bold
4	Main Product Description (French)	Variable Field - 40 chr. Max	Siemens Sans	6 Bold
5	Main Product Description (Spanish)	Variable Field - 40 chr. Max	Siemens Sans	6 Bold
6	Main Product Description (Chinese)	Variable Field - 40 chr. Max	Siemens Sans	6 Bold
7	Additional Description Text Line 1 (English)	Variable Field - 40 chr. Max	Arial	6 Bold
8	Additional Description Text Line 2 (English)	Variable Field - 40 chr. Max	Arial	6 Bold
9	EAN Barcode	Variable	Code EAN-13	0.150" High
10	Product Number Barcode & Identifier	Variable	Code 128 Subset B	0.150" High
11	Data Identifier "1P" Product Number	Fixed Field	Siemens Sans	7 Bold
12	Product Number	Variable Field	Siemens Sans	7 Bold
13	Line	Fixed Field		.5 Point
14	Company Name	Variable Field	Siemens Sans	7 Bold
15	"Country of Origin: " Text	Fixed Field	Siemens Sans	7 Bold
16	Country of Origin	Variable Field	Siemens Sans	7 Bold
17	TBD			
18	Data Identifier "Q" Quantity	Fixed Field	Siemens Sans	5 Bold
19	Text "QTY"	Fixed Field	Siemens Sans	5 Bold
20	Actual Text Qty ### in Carton	Variable Field	Siemens Sans	5 Bold
21	Data Identifier "16D" Date	Fixed Field	Siemens Sans	3.5 Bold
22	Text "DATE"	Fixed Field	Siemens Sans	3.5 Bold
23	Actual Text Date YYYYMMDD	Variable Field	Siemens Sans	3.5 Bold
24	Data Identifier "2P" Product Version	Fixed Field	Siemens Sans	3.5 Bold
25	Text "VER"	Fixed Field	Siemens Sans	3.5 Bold
26	Actual Text Version "RRR"	Variable Field	Siemens Sans	3.5 Bold
27	Data Identifier "2P" Hardware Revision	Fixed Field	Siemens Sans	3.5 Bold
28	Text "HW"	Fixed Field	Siemens Sans	3.5 Bold
29	Actual Text Hardware Revision RRR	Variable Field	Siemens Sans	3.5 Bold
30	Data Identifier "2P" Software Revision	Fixed Field	Siemens Sans	3.5 Bold
31	Text "SW"	Fixed Field	Siemens Sans	3.5 Bold
32	Actual Text Software Revision RRR	Variable Field	Siemens Sans	3.5 Bold
33	Data Identifier "S" Serial Number	Fixed Field	Siemens Sans	3.5 Bold
34	Text "SN"	Fixed Field	Siemens Sans	3.5 Bold
35	Actual Text Serial # "#####"	Variable Field	Siemens Sans	3.5 Bold
36	Data Identifier "V" Supplier	Fixed Field	Siemens Sans	3.5 Bold
37	Text "SPLR"	Fixed Field	Siemens Sans	3.5 Bold

38	Actual SAP Supplier # #####	Variable Field (= 8 Digits)	Siemens Sans	3.5 Bold
39	Text Technical Information	Variable Field	Siemens Sans	4.5 Bold
40	Agency Graphic 1	Variable Field	Graphic Image	
41	Agency Graphic 2	Variable Field	Graphic Image	
42	Agency Graphic 3	Variable Field	Graphic Image	
43	Agency Graphic 4	Variable Field	Graphic Image	
44	Agency Graphic 5	Variable Field	Graphic Image	
45	Agency Graphic 6	Variable Field	Graphic Image	
46	TBD			
47	2D Barcode	Variable Field	DMC	
48				
49				
50	© Copyright 2014 Siemens Industry Inc., Proprietary Information			
51				

7. Data Area Characteristics/Size – Outer Carton and Master PACK Labels Only – Domestic Suppliers Only

See FIGURES 4 & 5

These labels are an option for suppliers that do not supply incoming material for other Siemens locations worldwide. If the supplier does supply parts worldwide to Siemens they must follow the formats defined in images in Section 10.

7.1 Data Areas and Titles

There are twelve areas for each label: Part Number, Quantity, Supplier Address, Supplier Number, Part Description, Purchase Order Number, Revision Level, Gross Weight, Date of Manufacture, Date of Shipment, Container Type and Quantity and a reserved field. Each data area must be separated by thin lines and must contain its title in the upper left-hand corner. The bar code symbol must be directly above the human readable characters in all data areas. For label location on a carton or pallet, see Figures 6 & 7, respectively.

7.1.1 Supplier Address

The supplier's name and address must be located in the corner on both the Outer Carton Label and the Master Label. **The Country of Origin must also be located here.**

It is possible that the country of origin will be different than the shipping location. Example - Parts that are made in China and sent bulk to a supplier, who then repackages the parts in the USA and ships them to Siemens. In this case the address would be the USA but the country of origin will be China.

7.1.2 Supplier Number

Must be Siemens designated supplier number from SAP and can be supplied obtained from Procurement.

7.1.3 Part Number

Must be Siemens designated part number in the correct format, including all special characters.

NOTE: On master cartons with multiple part numbers the word "**Multiple**" should be printed here.

7.1.4 Description

Must be Siemens designated description from purchase order.

NOTE: On master cartons with multiple part numbers the word **“Multiple”** should be printed here.

7.1.5 Revision Level

Must be Siemens designated revision level from purchase order. The field must be alphanumeric and no more than 3 characters.

When shipping the first lot of parts from a new revision or engineering sample. A separate label must be placed on the same plane as the master and outer carton labels that state “New Revision” or “Engineering Samples”. This label should be printed with a font size of “48 point bold” minimum.

7.1.6 Purchase Order Number

Must be Siemens designated purchase order number. Purchase order line numbers are NOT to be included.

7.1.7 Gross Weight

The total weight of the master pack or outer carton in pounds.

7.1.8 Quantity

This is the total number of pieces in the master pack or outer carton. It should be no more than 6 digits.

NOTE: On master cartons with multiple part numbers the word **“Multiple”** should be printed here.

7.1.9 Date of Manufacture

This is the date of manufacture of a particular lot of parts. If the lot was produced over multiple days, then the last day of production for the lot should be used. It must be expressed in a date format of MM/DD/YY.

7.1.10 FIFO / Ship Date

This is the date of shipment of the lot or lots it may be different from the date of manufacture. It must be expressed in a date format of MM/DD/YY.

7.1.11 Container Type and Quantity






This is the type of container and total number included in the shipment. On master packs it will include the total number of units such as 3 pallets.

On outer cartons, this field will include the total number of cartons of a particular part number.

7.1.12 Reserved

This area is reserved for future 2D barcode formats. This field should currently remain blank. This barcode format will contain all data from the 11 fields above. And will be defined at a later date.

**Figure 2: Sample Outer Pack Label –
Minimum of 6.5"W x 4.0"H**

PART NUMBER:  ABCDEF-123456789			 Reserved Future 2D Bar Code
DESCRIPTION: ITEM DESCRIPTION			CONTAINER TYPE & QTY: Carton 6 of 30
QUANTITY  42	REVISION  AA	DATE OF MFG.  11/09/08	
P.O. NUMBER  9300050933		SUPPLIER NUMBER  87654321	Gross Weight: 5 LBS
FIFO / SHIP DATE  12/03/08		From: ANY VENDOR 1234 YOUR STREET CITY, STATE OR COUNTRY POSTAL CODE PERSON@DOMAIN.COM Origin - China	

**Figure 3: Sample Master Pack Label –
Minimum of 6.5" W x 4.0"H**


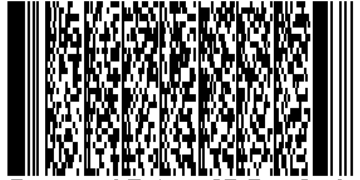





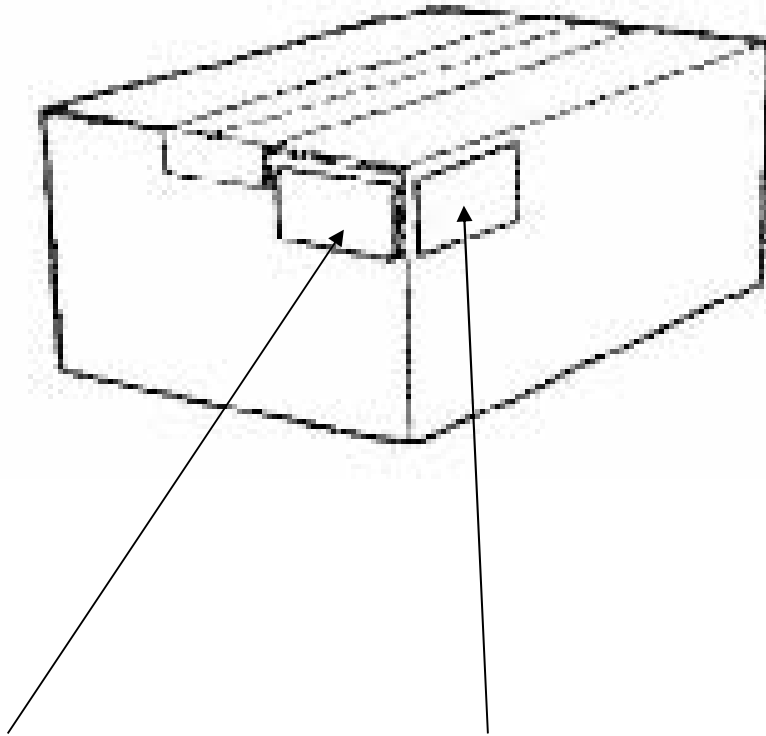
PART NUMBER:  ABCDEF-123456789			 Reserved Future 2D Bar Code
DESCRIPTION: ITEM DESCRIPTION			CONTAINER TYPE & QTY: Pallet 2 of 3
QUANTITY  42	REVISION  AA	DATE OF MFG.  11/08/08	
P.O. NUMBER  9300050933		SUPPLIER NUMBER  87654321	Gross Weight: 455 LBS
FIFO / SHIP DATE  12/02/08		From: ANY VENDOR 1234 YOUR STREET CITY, STATE OR COUNTRY POSTAL CODE PERSON@DOMAIN.COM Origin - China	

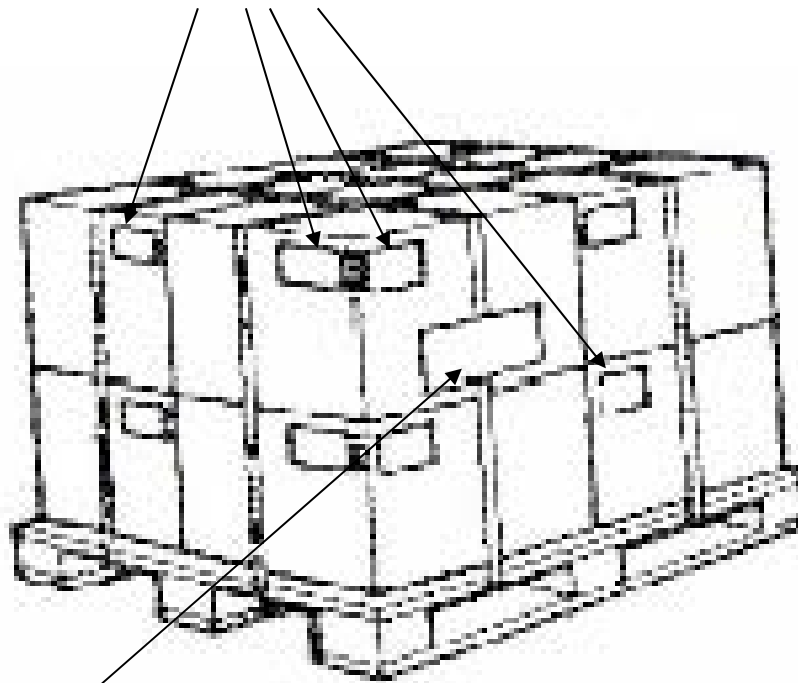
Figure 7: Outer Pack Label Location



There should be 2 Outer Pack Labels applied to adjoining corners of each carton as shown above.

Figure 8: Outer Pack and Master Pack Label, and Packing List Location

Outer Pack Labels on a master pack skid.



Location for Master Pack Label and Packing List - Preferably on the front side (loading side) of skid

Note: Packing list should NEVER be placed on the top of any skid or crate!

8. Outer Carton and Master PACK Labels Only – For Global Suppliers and Optional for Domestic Suppliers

The next (3) illustrations are from drawing “3 8841 1350”. They show the correct format for outer carton and master pack labels.

The first page lists the mandatory and optional fields.

Kommentare zu den Feldern
[Comments to the fields]

Felderinhalt 1 - 17
[Field content 1 - 17]

No:	German	English	Kann und Muss Felder Mandatory (M) and optinal (O) fields
1	Warenempfänger	Receiver or Consignee Siemens Schweiz AG Gubelstrasse 22, CH-6301 Zug	M
2	Abladestelle – Lagerort	Dock Gate or Place of unloading Warenannahme Senn Transport AG, Rampe 15/16 Seewernstrasse 203, CH-6423 Seewen	M
3	Lieferschein #	Advice Note # or Shipping Note #	M
4	Lieferantenadresse	Supplier Address Company name, Address plus location	M
4.1	Ursprungsland	Country of Origin	M
5	Gewicht netto	Net weight	O
6	Gewicht brutto	Gross weight	O
7	Anzahl Packstücke	Number of Boxes	O
8	Sach Nummer Kunde	Part No. Customer	M
9	Füllmenge (Q)	Quantity	M
10	Bezeichnung Lieferung	Description	M
11	Sach-Nr. Lieferant	Supplier Part No	O
12	Lieferanten-Nr.	Supplier Code	M
13	Datum	Date	M
14	Änderungsstand	Engineering Change Revision	O
15	Bestellnummer	Purchase Order Number	M
16	Chargen-Nr.	Batch No.	O
17	Lieferantenanschrift lang	Supplier Address (complet Adress)	O

Feld / field 4.1 *

Zusätzlich zur Lieferantenadresse muss das Ursprungsland aufgeführt werden.
[Additional to the Supplier Address, Country of Origin must be listed]

Feld / field 15 *

Entgegen VDA 4902 wird das Feld 15 für die Erfassung der Bestellnummer aufgeführt.
[Contrary to VDA 4902, field 15 is used to list Purchase Order Number.]

Feld / field 16

Identnummer, die der Hersteller einer Charge zuteilt.
[ID (Identnumber), which the manufacturer assigns to the batch.]

* Aus Wunsch von BT USA eingeführt.
[Introduced by request BT USA]

Drawn: P. Felder	Responsible	Kennzeichnung von Lager- und Ladeeinheiten Für externe Anlieferung nach VDA 4902			
Checked: H. Stierli	CH-Zug / 4430				
Date: 21.04.2016	Doc. mgmt.	Identification of stock units and load units For external suppliers according to VDA 4902			
ECO: Teamcenter	CH-Zug / 4994				
Scale: %					
SIEMENS © Siemens Switzerland Ltd	 DESIGNER	3 8841 1350	H	2/4	de en

Restricted

Batch No. / Date Code / Lot Number will be mandatory on the single unit label, if it does not appear on each individual product / piece.

Restricted

Kennzeichnung von Lagereinheiten [Identification of stock units]			
Exemplarische Darstellung [Exemplary presentation:]		<div> <div> <div>(1) Warenempfänger Siemens Schweiz AG Gubelstrasse 22, CH-6301 Zug</div> <div>(2) Abbestelle - Lagerort - Verwendungsschlüssel Warenannahme Senn Transport AG, Rampe 15/16 Seewernstrasse 203, CH-6423 Seewen</div> <div>(3) Lieferschein-Nr. (N) 206886</div> </div> <div> <div>(4) Sach-Nr. Kunde (P) 7411700330</div> <div>(5) Füllmenge (Q) 55</div> <div>(6) Bezeichnung Lieferung, Leistung UpperGearBoxPlatine_LA</div> <div>(7) Sach-Nr. Lieferant F00 22852 0003</div> <div>(8) Datum 20140122</div> <div>(9) Chargen-Nr. (H) 1007196</div> </div> <div> <div>(10) Lieferanten-Nr. (V) 30123</div> <div>(11) Bestellnummer (K) 4500820625</div> </div> </div>	
<div> <div>Responsible CH-Zug / 4430</div> <div>Doc. mgmt. CH-Zug / 4994</div> </div>		<div> <div>Kennzeichnung von Lager- und Ladeeinheiten Für externe Anlieferung nach VDA 4902</div> <div>Identification of stock units and load units For external suppliers according to VDA 4902</div> </div>	
<div> <div>SIEMENS</div> <div>© Siemens Switzerland Ltd</div> </div>		<div> <div>DESIGNER</div> <div>3 8841 1350</div> <div>H</div> <div>3/4</div> <div>de</div> <div>en</div> </div>	

Barcodes beinhalten Data Identifier
[Barcodes include Data Identifier]

9. Packing Requirements

9.1 General Requirements

It is the responsibility of the shipper, the party from whose dock or facility the goods are made available and tendered for shipment under common law to tender freight to the carrier or the carriers' representative in such a manner that under normal conditions the shipment can be expected to arrive free of damage.

This expectation is based on proper and prudent packing for the:

- **Mode of Shipment** (i.e. surface [truck or rail], air freight or water [ocean or river barge]freight),
- **Route** (the actual geography covered during the transport, sometimes called *lane*),
- **Season or time** of shipment (summer, winter, monsoon season, etc.)
- **Basic Shipment Attributes** (weight, dimensions and contents).

Note: A shipment that is visibly packed improperly may be refused by the origin carrier (i.e. the party contracted to pick up the goods at the shipper's dock or facility or other named point per the INCOTERMS or equivalent U.S. domestic freight terms used.)

9.2 Preferred Packaging Materials

Packing material should, whenever practical, be returnable or recyclable material. The use of Styrofoam and packaging peanuts must be avoided for both environmental and clean up issues these create.

9.2.1 Packaging Material Hazardous Content (Heavy Metals)

All packaging material used for incoming material and outgoing product to our customers must conform with the following statement.

The concentration levels of heavy metals present in packaging material shall not exceed the levels stated in Article 11 of the “EUROPEAN PARLIAMENT AND COUNCIL DIRECTIVE 94/62/EC of 20 December 1994”. Note that “packaging” shall mean all products made of any materials of any nature to be used for the containment, protection, handling, delivery and presentation of goods.

Further, the concentration levels of substances present in packaging material shall not exceed the thresholds stated in Section 2 (Packaging Restrictions) of the BOMcheck List of Restricted and Declarable Substances for Electrical and Mechanical Products, in the version applicable at the time of delivery.

This includes that the supplier shall only deliver packaging material which is, at time of delivery, free from substances as set forth the REACH candidate list (SVHC = Substances of Very High Concern). The supplier shall inform Siemens without undue delay about deliver packaging material if and to the extent that material is affected by changes of the REACH candidate list between ordering and delivery in order to discuss the next steps in good faith.

The current list can be found at the “BOMcheck website”

The document is titled “BOMcheck List of Restricted and Declarable Substances for Electrical and Mechanical Products” can be located at.

<https://www.bomcheck.net/suppliers/restricted-and-declarable-substances-list>

The supplier version of this document can be downloaded in PDF format from this page without a login. Click the PDF symbol to the right of the document title to download.

9.3 Carton Requirements

9.3.1 Burst Strength

All shipping cartons must have a “burst strength” sufficient to safely contain the weight of the intended contents. It is the responsibility of the shipper to ensure that their shipping cartons have sufficient “burst strength”. The transportation authorities of most countries have official or voluntary standards defining “burst strength”. SBT requires that these standards be met for shipments to the US.

The burst strength of cartons for goods that SBT intends to re-sell upon receipt (i.e. “pass-through goods” which may not be intended for SBT’s manufacturing consumption), must meet U.S. carton burst strength standards to avoid re-packaging by SBT. Verify the sufficiency of your product carton’s burst strength to meet U.S.

standards with your packaging supplier whose responsibility it is to know these national and global standards.

9.3.2 Temperature, Humidity & Special Considerations

Where the contents of the cartons are sensitive to temperature or especially humidity, special care must be taken to avoid moisture damage to the product. Based on the product's transportation route or the differences in general weather conditions at the point of shipping origin versus those expected at the destination point, measures may have to be taken by the shipper to reduce the risk of moisture damage. The use of desiccant packed with the product, or vacuum packing are potential solutions, but there may be others. It is the responsibility of the shipper to determine the best way to avoid moisture or condensation damage to product during transportation.

9.3.3 Shipping Non-Palletized Cartons

Non-palletized shipments (i.e. loose cartons) must be properly sealed with tamper-proof tape. Or, if regular package sealing tape is used, then at least one band of strapping preferably utilizing seals with the shipper's logo on them; or carton staples, must also be used and applied in such a way that tampering would be obvious.

9.4 Shipment Packing Slip Information

This information relates ONLY to the packing slip that is to be included with every shipment, and is not an additional requirement to the labels mentioned earlier in this document.

Each packing list should contain bar-codes for the following fields in addition to the human readable text for that field. This is to facilitate the receiving of material in the Buffalo Grove warehouse

SIEMENS Part Number (incl. Barcode)

SIEMENS Purchase Order Number (incl. Barcode)

Total quantity shipped (incl. Barcode)

The following item if it exists on the packing list;

Supplier Order Number / Packing List Number (incl. Barcode)

10. Pallet Requirements

SBT has, based on its own extensive experience, concluded that the greater majority of shipping problems related to palletization and packing can be avoided by use of proper pallets and proper packing methods. Therefore SBT requires shipments to adhere to the following pallet and packing methods specifications, unless the shipper can clearly demonstrate, and SBT agrees in writing, that other palletization or packing methods are more appropriate for a specific product transport.

10.1 Pallet Ratings

Pallets must be able to sustain the weight of the intended shipment through multiple handlings as determined by the mode of shipment utilized. Generally:

- Light duty pallets can carry a dynamic load of up to 2,500 US pounds (approximately 1135 Kg)
- Medium duty pallets can carry a dynamic load of up to 5,000 US pounds (approx. 2270 Kg)
- Heavy duty pallets can carry a dynamic load over 5,000 US pounds (approx. 2270 Kg)

10.2 Phytosanitary Pallets

Pallets used in international trade must meet various “phytosanitary” specifications: solid wood pallets must be treated to UN specifications, and must bear the appropriate IPPC markings. The US specifications which also reflect this are at:

www.aphis.usda.gov/import_export/plants/plant_exports/wpm/wpm_heat_treatment.shtml.

This standard does *not* apply to metal, plastic or pressure molded, resin impregnated wood by-product pallets.

DO NOT SEND PRODUCT ON METAL, CARDBOARD OR PLASTIC PALLETS.

If you have questions, your local freight forwarder is well aware of these global pallet requirements and can assist you. It is the freight forwarders responsibility to advise you if the pallets on which you tender a shipment are not acceptable to the destination, as the freight forwarder will be required to place non-compliant shipments in customs quarantine at the destination at your expense until the shipment is either returned to its origin or re-palletized.

10.3 Normal Pallets

There are some established norms in the European Union, and generally accepted practices in the US regulating pallet design in global trade.

- The European UIC 435-2 norm is the most completely defined and has the widest global application.
- A drawing of the US standard accepted “GMA” style pallet can be found at: www.palletsales.net/images/PEIGMA4way.PDF.
- Shipments to SBT may adhere to either set of norms/practices.
- DO NOT SEND PRODUCT ON METAL, CARDBOARD OR PLASTIC PALLETS.

10.4 2-Way Entry Pallets

Pallets may be “two-way entry” and within the above general norms/practices and meet the specific SBT size requirements of:

- Standard US “GMA” type pallet at 40 inches deep by 48 inches wide (sample description at: www.palletsales.net/images), or
- Standard EUR pallet type conforming to ISO 6780 and which is 800mm x 1200 mm (approx 32 inches by 48 inches), or
- Standard EUR pallet type conforming to ISO 6780 and which is 1000 mm x 1200 mm (approx 40 inches by 48 inches), or
- DO NOT SEND PRODUCT ON METAL, CARDBOARD OR PLASTIC PALLETS.

- Other specific sizes approved by SBT.

11. Palletization Restrictions and General Rules

11.1 Basic Rules

There are some basic rules when preparing pallets for shipment. These basic rules are:

1. Loaded pallet height cannot exceed 55 inches (approximately 150 cm) and must be a minimum height of 45 inches (approximately 115 cm), including the height of the pallet itself, if there are multiple pallets in the shipment.
2. The weight load on the pallet must be evenly distributed, avoiding heavier items at the top, or heavier items all to one side. Cartons may not extend beyond the edge of the pallet.
3. The pallet and the load on the pallet must be configured, and be strong enough to support a pallet-load of identical size and weight to be safely stacked on top (i.e. Product pallet-loads should be configured to be “double-stacked”). This is to maximize cubic capacity of the transport container (air, ocean or truck).

See also #6 below.

4. If a cardboard sleeve is used such that individual cartons on the pallet are not visible, then a single cardboard top piece, or “cap” must also be utilized and secured in place.
5. If a cardboard sleeve is not used (individual cartons on the pallet thereby are visible), then the pallet must be shrink-wrapped on all sides and the top. A label indicating “Stretch-Wrapped by Shipper” or similar wording must be affixed on two opposite entry sides of the pallet, no more than 10 inches (approximately 25cm) from the top. The label must be applied before the pallet is shrink-wrapped.
6. If the top of the pallet is not flat, a situation to be avoided if at all possible, then a label clearly indicating “**Do Not Double-Stack**” must be placed on two opposite entry sides of the pallet no more than 10 inches (approximately 25 cm) from the top of the pallet.
7. Pallet strapping (banding) must be on all four sides of all pallets (i.e. both entry sides) with a minimum of two straps in either direction. Steel or high-strength plastic strapping is preferred, and strapping seals bearing the shipper’s logo is strongly recommended. Strapping with shippers seals with logo’s make tampering with palletized freight increasingly noticeable. If the pallet is shrink-wrapped, then strapping must be applied to the pallet after it is shrink-wrapped, not before.
8. Corner boards, or similar devices, must be used to prevent the strapping from cutting into the carton, cardboard sleeve or cap edges which would allow the strapping to become loose and not properly contain the load.
9. Where a pallet sleeve is not employed (#5 above), then the number of cartons on the pallet must be clearly indicated on the pallet.
10. The pallet’s weight and dimensions must be clearly indicated on the pallet.

11. The SBT Purchase Order number(s) must be clearly indicated on the pallet.
12. Where a multiple pallet shipment is being tendered to the carrier, the pallets must be clearly numbered to indicate how many pallets are being tendered in the shipment (e.g. 1 of 4, 2 of 4, etc.) Where a corner board is used, this information may be written on the corner board of each pallet, otherwise a separate placard / label on each pallet must show this information.

11.2 Mixed Part Pallets

Good logic should be considered when shipping “mixed” part pallets. It should be the shipper’s goal to minimize the number of pallets being shipped to Siemens.

To achieve this:

- 1) High volume items should not be on mixed pallets, instead they should all be on dedicated pallets of no more than 55”
- 2) Keep items together. Do not split two boxes of one item between two or more pallets.
- 3) If a dedicated pallet is not completely full,
 - a) If the pallet is over 50% full, do not add any other items to this pallet. Instead place these materials on a mixed pallet.
 - b) If the pallet is less than 50% full, add materials to other mixed pallets first before adding to this pallet.

12. PRODUCT COUNTRY OF ORIGIN LABEL

12.1 Pass Through (Finished Goods) Requirements

In addition to any other label requirements called out on the drawing, any Pass Through product itself must be labeled with a "Country of Origin" label. This may be added as the last line on an existing part number label or be placed on a separate label located below the existing part number label. It should not be added to any decorative finished surfaces. In these situations a separate label on the finished part near the part number should be used. Questions regarding the placement of the Country of Origin information should be directed to the supplier's quality representative.

Examples of products requiring a Country of Origin label on the product/component are Finished Goods, OEM Products, printed circuit board assemblies, assemblies that are designated re-sellable products by SBT and Products/components that have label requirements specified on SBT drawings.

12.2 Stockable Components Requirements

If the individual product/component supplied to SBT is not intended for resale by SBT to an SBT customer, then a Country of Origin label is not required on the product/component. An example of this is a machined or fabricated component, plastic molded or cast component, electronic part or any other part SBT would use in a higher level assembly or product.

If unsure contact your SBT Purchasing Agent or Commodity Manager.

12.3 Format

The Country of Origin must be filled in by vendor showing where the product was manufactured. The prefix of "Origin:" is acceptable and preferred instead of spelling out "Country of Origin" and the country name must be spelled out in English. With the exception of USA (for United States of America), abbreviations should not be used unless they would clearly be recognizable by the "average" US resident, i.e. "Britain" for Great Britain, "China" for The People's Republic of China, etc. The use of ISO abbreviated country names (i.e. DE for Germany, CH for Switzerland) is not permitted on product or packaging labels. Use of terms other than "Country of Origin" or "Origin" (i.e. "Made in" or "Assembled in") are not permitted.

Example: **Origin: Germany** (Preferred) or **Country of Origin: Germany**

13. Data Matrix Bar Code (DMC)

13.1 Background

A 2D-Code (Data Matrix Code) in addition to the human readable text label on CPS products (smallest sellable unit) permits fast and error-free logging of data.

13.2 Objectives

This document describes the 2D barcodes (Data Matrix Codes) to be used on production products.

Data Matrix Codes (DMC) are used everywhere where the workflows in the logistics chain can be simplified and faulty parts are analyzed, or when parts need to be found as required, for quality purposes. They form the basis for uniform, global standards for data logging.

13.3 Target audience

The specifications apply to all suppliers of products and parts (all customer orderable units); including third-party suppliers that currently attach any label to a Siemens product. (Exception: Products being phased out, with Siemens Procurement approval.)

Line managers are responsible for introduction on all CPS levels and at IC BT CPS QM.

R&D (Mechanical Design) controls the specifications of the templates for DMC product labels and package labels, to be applied by the supplier.

13.4 Scope

The work instruction applies to all products of IC BT CPS, USA.

14. Documents

14.1 Reference documents

- [1] ISO/IEC 16022:2006 International symbology specification - Data matrix
- [2] ISO/IEC TR 24720:2008 Guidelines for direct part marking (DPM)
- [3] ANSI MH 10.8.2 Data Identifier and Application Identifier Standard

15. Abbreviations

IC BT	Building Technology business area of Infrastructure & Cities sector of Siemens
ISO	International Standardization Organization
ANSI	American National Standards Institute
DMC	Data Matrix Code
MAC Address	Medium Access Control Address
DUNS ID	Data Universal Numbering System Identification
SEN	Siemens orderable product number
ID	Identification

16. DMC Label Specifications.

16.1.1 Labels

16.1.2 Label Material

There are 2 approved label materials for the DMC barcode label. They are application dependent. The printed label can be applied to any surface that is not directly customer facing.

Contact Siemens procurement for questions about placement.

16.1.2.1 Polyester

Polyester is the general purpose label material, when combined with the proper ink. It will provide a long lasting easy to scan barcode label. Polyester labels can be applied to any products or populated PCA's.

16.1.2.2 Polyimide

Polyimide is a high temperature material. It is designed for and required for DMC labels that will be placed on PCA's before they are populated and run the SMT lines and exposed to reflow oven temperatures.

16.1.3 Label Size

16.1.3.1 DMC – No Tear-off

The DMC label should be 1.0" wide and 0.5" high.

16.1.3.2 DMC – With Tear-off

The DMC label with the tear off should be 1.0" wide and 0.75" high. The tear off portion is 1.0" wide and 0.25" high.

16.1.4 Label Source

Siemens has identified a source with worldwide distribution. Identco International has locations in North America, Europe and Asia. See Appendix B for contact information and approved part numbers.

16.1.5 Special Tear-Off Labels

Custom labels that would have a tear-off portion will be specified separately by engineering per product, if required.

16.2 DMC Label Ink

All DMC labels are to be printed using a high performance resin ink designed for thermal transfer printing. This type of ink will produce the highest quality labels using the approved label materials. Siemens has approved 2 inks for the specified labels. See Appendix C for contact information and approved part numbers.

17. Data Matrix Codes

The Data Matrix Code is the standard barcode for product DMC labels, and in addition to the bar code human readable label text will be printed, space permitting..

17.1 Definition of terms

The following terms are used in the determination of the Data Matrix Code:

Data field size	Max. 9 x 9 mm, larger sizes are possible, depending on the human readable field size, and alternate approved label sizes. For the perforated tear-off tab, between 4x4 mm and 5x5. Barcodes can be larger depending on product such as valves and actuators.
Encoded information and data identifier	Labeling the content (encoded information) of a data field as per standard ANSI MH10.8.2 and Data Identifier as per SN 18630. In general, encoded information is indicated with the appropriate data identifier in the encoded depiction as well as in the human readable text. There is no electronic signature or checksum calculation due to space constraints
Error correction code	ECC200
High level encoding	Use ASCII (default)
Minimum degree of readability using a defined reader	At least C (readable by commercially available smart phones using scanner APP or preferably i-nigma or Siemens BT Scanner APP)
Read distance of reader to code	3 cm to 12 cm
Print color	Black, preferred
Print process	Thermal transfer
Ink Type	Thermal Transfer High Performance Resin
Label material	Standard: White polyester or polyimide labels (application dependant) Silver or black as necessary
Resolution	300 dpi minimum standard resolution
Resistance	Abrasion and wear resistance as per the applicable product standard
Position of the Data Matrix Code on the type label	Precise position as per type label drawing (simple reading using the reader, must be ensured in the event of service unless the customer objects)

17.2 Definition of identifiers & application table

The following table defines the different identifiers and their usage:

Data identifier acc. ANSI MH 10.8.2 and this document	Abbreviation	Data / content	Product label – Human Readable	Product label – DMC	Tear-off label ¹ – Human Readable	Tear-off label – DMC	Factory set ²
1P	SEN	SSN (ASN)	M	M	O	O	O
31P	ASN	ASN	M	O	M	O	M
2P	ER	Status	M	M	O	O	M
16D	Date	Production date	M	M	O	O	M
S	Date+	Date / series / cond. number	O	O	x	x	O
1S	FID	Production identification	V	V	V	V	O
23S	MAC	MAC address	M	M	M	M	M
43S	S/N	Serial number (S/N)	V	V	V	V	M
Q	Qty	Number	X	X	X	X	X
7Q	Qty	mm, liter,..	X	X	X	X	X
4L	CO	Country of origin	M	O	X	X	X
16S	SW	SW-Version	O	O	O	O	M
V	SPLR	Supplier identification	O	O	O	O	X
3C	TXT	Free text block	O	O	O	O	X

Table 1: Definition per identifier & application table; document [7]

¹ This row is not applied when there is no tear-off label defined for the product.

² A factory set is a dedicated memory space in the device, in which the production data is stored, so they can be read out electronically.

³ M: Mandatory for each product; M: Mandatory, if the data is defined for the product; V: Variant – where one of the options have to be on; O: Optional; X: Not applicable

17.3 Coding and human readable text of code content

The following table demonstrates the coding of the different code content using samples (see section 17.4) of type labels, tear-off labels and packaging labels as well as their clear text entries:

Code content (abbreviation / identifier)	Data type ³	Length ⁴	Coding & clear text	Remarks ⁵
Article number / material type (SEN / 1P)	AN	≤18	Product data (i.e.): S55376-C101 Coding (i.e.): 1PS 55376-C101 (for COMFORT products) 1PS 54..., 1PA5Q0... or 1PBPZ:... (for FIRE products) Human Readable text table (i.e.): 1P S55376-C101	SSN = Siemens Part Number (Logistics view: Orderable number, material number)
Hardware Revision, functional state, Firmware Revision (ER / 2Pxx)	AN	≤2 ≤2 ≤2 ≤15 ≤7 ≤26	Product data (i.e.): A (for FS of COMFORT) 41 (for FS of FIRE) 01 (for FS of RS) 5.1.1 (for FS of FW) 1234567 (for FS of S) A-01-5.1.1-1234567 (combination of several state entries) Coding (i.e.): 2PFS A (for COMFORT products) 2PFS 41 (for FIRE products; there are older versions coded with 2P41 – both IDs have to be valid for further IT processing) 2PRS 01 2PFW 5.1.1 2PS 1234567 2PFS A- RS 01- FW 5.1.1- S 1234567 Human Readable text table (i.e.): 2PFS A 2PFS 41 2PRS 01 2PFW 5.1.1 2PS 1234567	FS: Hardware Revision (A...ZZ (Rev) or 01..99 (ES for Fire) RS: Revision state (01..99) FW: Firmware Revision (5.1.1) S: Consecutive number (0 ... 9'999'999 per ASN/SSN)
Production date (DATE / 16D)	N	8	Product data (i.e.): 23 May, 2018 Coding (i.e.): 16D 20180523 Human Readable text table (i.e.): 16D 201830523	Test date: YYYYMMDD (according document [10])

³ A: alpha; AN: alphanumeric; N: numeric; Hex: hexadecimal

⁴ Length of character chain without ID, but with separation sign included

⁵ See also document [2]

Code content (abbreviation / identifier)	Data type ³	Length ⁴	Coding & clear text	Remarks ⁵
Units (Q)	N	3	Product data (i.e.): 1, 50, 100, ... Coding (i.e.): Q1, Q50, Q100, Q Human Readable text table (i.e.): Q 1 Q 50 Q 100	Statement of quantity (units)


Code content (abbreviation / identifier)	Data type ³	Length ⁴	Coding & clear text	Remarks ⁵
Material type (ASN / 31P)	AN	≤18	Product data (i.e.): FCM2041-U2, PXC3.E72A Coding (i.e.): 31P FCM2041-U2 Human Readable text table (i.e.): 31P FCM2041-U2	ASN = Model Number [not orderable part number]
Production identification (FID / 1S)	Hex	≤14	Product data (i.e.): 4710CF6 (for FIRE products) Coding (i.e.): 1S 4710CF6 Human Readable text table (i.e.): 1S 4710CF6	According to SN 37040 (with code for Siemens production sites included)
Serial Number / ID (S/N / 43S)	Hex	≤10	Product data (i.e.): 14000D0EF1 (for COMFORT products, production Zug - A) 70000601 (for COMFORT buy-in products - B) Coding (i.e.): 43S 14000D0EF1 43S 70000601 Human Readable text table (i.e.): 43S 14000D0EF1 43S 70000601	A) globally unique serial number, 10 digits (14 = Factory Zug) Details see TeamCenter under 8 000 068 227, "List of Factory Codes" B) Water metering - address for cost reporting (8...10 digits) unique for each supplier
EAN 13 (EAN / 3P)	N	13	Product data (i.e.): 7612914081643 Coding (i.e.): 3P 7612914081643 Human Readable text table (i.e.): 3P 7612914081643	EAN13 is common for consumer products; A UPC code can be substituted with 2 leading "0"s to equal 1 13 digit number.
Country of Origin (CO / 4L)	AN	2	Product data (i.e.): CH (for Switzerland), MX (for Mexico), etc Coding (i.e.): 4L CH Human Readable text table (i.e.): 4L CH	According ISO 3166
Date / series / device number (DATE+ / S)	AN	≤13	Product data (i.e.): 130523A123456 Coding (i.e.): S 130523A123456 Human Readable text table (i.e.): S 130523A123456	Test date / series / 6 digits, consecutive device number (COMFORT) according to BT directive 8 000 077 819 ([10])
MAC address (MAC / 23S)	Hex	12	Product data (i.e.): 153970AF00FF Coding (i.e.): 23S 153970AF00FF Human Readable text table (i.e.): 23S 153970AF00FF	MAC address in hex format

Code content (abbreviation / identifier)	Data type ³	Length ⁴	Coding & clear text	Remarks ⁵
Material type (ASN / 31P)	AN	≤18	Product data (i.e.): FCM2041-U2, PXC3.E72A Coding (i.e.): 31P FCM2041-U2 Human Readable text table (i.e.): 31P FCM2041-U2	ASN = Model Number [not orderable part number]
Free text (TXT / 3C)	A			
Data Field Separators			Separate data fields by "+" sign i.e. 1PS55376-C101+2PFSA+16D20130523	

Table 2: Coding, clear text and examples for the data content; document [7]

17.4 Examples for data matrix bar coding with human readable text


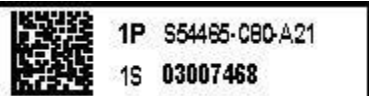
17.4.1 Example of a FIRE product

Main code	Tear-off label (If required)
1PS54400-A65-A1+2PFS05+16D20180705+2PFW01.00.0010+4LUS	1S4710CF6
 <p>1P S54400-A65-A1 2PFS 05 16D 20180705 2PFW 01.00.0010 4L US</p>	Not Required

Matrix: 7mm X 7mm

Settings: Encoding: ASCII, background white, dot color black

17.4.2 Example of a FIRE product with P2 ID

Main code	Tear-off label (If required)
1PS54465-C80-A21+2PFS01+16D20180705+1S03007468+4LUS	1PS54465-C80-A21+1S03007468
 <p>1P S54465-C80-A21 2PFS 01 16D 20180705 1S 03007468 4L US</p>	 <p>1P S54465-C80-A21 1S 03007468</p>



Matrix: 7 mm X 7mm

Settings: Encoding: ASCII, background white, dot color black

matrix: 5 x 5

17.4.3 Example of a COMFORT product

Example: PXC3.E72A, SystemOne controller

Main code	Tear-off label (If required)
1PS55376-C101+31PPXC3.E72A+2PFSA+43S14000D0EF1+16D20130523	31PPXC3.E72A+43S14000D0EF1
 <p>1P S55376-C101 31P PXC3.E72A 2PFS A 43S 14000D0EF1 16D 20130523</p>	 <p>31P PXC3.E72A 43S 14000D0EF1</p>

Matrix: 26x26

Settings: Encoding: ASCII, background white, dot color black

matrix: 20x20

18. Appendix

18.1 Appendix A

18.1.1 System, Software and Printers

Suppliers are free to use any printer, or software they desire that will yield the specified labels from section 7. Siemens has developed these requirements based on software and printers we use in the Building Technologies factories in the United States.

18.1.2 Printers

Siemens currently uses printers manufactured by Citizen Systems of America. Siemens uses these because they are extremely cost effective and reliable compared to others in the market. Although any manufacture of thermal transfer printers that have a minimum resolution of 300 DPI is acceptable. Zebra, Datamax-Oneil, Sato are a few alternates that are also acceptable. Additionally the approved inks for the specified labels are available for other printer types that require the coated side in vs. the Zebra's and Citizen's that require coated side out ink.

There are 2 models of Citizen printers that meet the Siemens requirement of 300 DPI.

Both printers are shipped with a free version of BarTender Lite software that will print the required labels. See Appendix C for the source with Siemens negotiated pricing.

The CL-S631 is a low cost desktop printer with standard USB connections.

The CL-S703 is a slighter higher cost industrial printer with standard USB connections.

See Appendix E for purchase information on Citizen Printers at Siemens negotiated prices.

18.1.3 Software

Siemens currently uses the bar coding software; BarTender from Seagull Scientific. Seagull Scientific has many different versions of their product. For suppliers that currently use or decide to use this software, Siemens will send the file that contains the correct layout for the specified label.

If the supplier already uses BarTender. Siemens will just need to know the current version in use by the supplier, so that the proper file will be sent.

18.1.3.1 BarTender Basic

This software ships for free with the above mentioned printers, but because the rights have been purchased by Citizen for their printers. It will only print to Citizen branded printers.

Additionally the software can be purchased from Seagull Scientific or one of their re-sellers with the ability to print to any printer. It is the least expensive version of the software.

This version of the software has very limited capabilities and will require the manual input of the fields for part number, revision and firmware revision. The date code can be automatically generated and the country of origin can be fixed. For this option Siemens will initially provide the data file with the BarTender Basic format.

18.1.3.2 BarTender Professional

This is a significantly upgraded version of the above software. The software can be purchased from Seagull Scientific or one of their authorized re-sellers with the ability to print to any printer. Siemens has negotiated pricing on this software package, see Appendix D.

The primary advantage of this version of the software is that it allows for the automatic population of data fields from an Excel spread sheet. The user would only need to enter the part number and the rest of the fields will be populated automatically, such as revision and firmware versions.

For this option Siemens will initially provide the data file with the BarTender Professional format and an Excel spread sheet with all the current information. The supplier will be responsible to update the spreadsheet based on Siemens Engineering Change Notice's to match production or Siemens at their option may send a new file with each ECN released for production.

18.2 Appendix B

Blank label material – No Tear Off

Label Source: Identco International

Label Size: 1.0" x 0.5"

Part Numbers:

TTL147-700-10 General purpose polyester

TTL147-403-10 Polyimide High Temperature applications

Contact Information

USA	Mexico	Mexico
IDENTCO CORPORATE HEADQUARTERS 28164 W. Concrete Drive Ingleside, IL 60041 USA Phone: +1 (815) 385-0011 Fax: +1 (815) 385-0359	IDENTCO – JUAREZ Avenida Adolfo López Mateos 135 Norte PRONAF, 32315 Cd. Juarez, Chihuahua México Phone: +52 (81) 8008-0438	IDENTCO – MONTERREY Carr. a Laredo KM 16.5 – Interior 14B Col. Moisés Sáenz 66613 Apodaca, N.L. México Phone: +52 (81) 8008-0438
EUROPE	ASIA	
IDENTCO – GERMANY Güterbahnhofstraße 3-7 63450 Hanau Phone: +49 (6181) 440830-0 Fax: +49 (6181) 440830-99	IDENTCO - HONG KONG Unit 1708, 17/F, 9 Wing Hong Street Cheung Sha Wan, Kowloon Phone: + 852-2959-2156 Fax: + 852-2959-2019	

18.3 Appendix C

Thermal Transfer Ink Ribbons

Note: High performance resin ribbons are 984' (300m) long. Each ribbon will print about 20,000 labels. Ribbons have a 2 year shelf life. Other size and length required by a specific printer are also available.

Approved ribbons

18.3.1 Armor AXR7+ Part # T12833ZA

Orderable from multiple locations, do web search.

18.3.2 Identco TTRR-D Part # TTRD-D-2.36Z

Orderable from Identco locations in Appendix A.

18.4 Appendix D

Software

Siemens has negotiated pricing with Insight. (www.insight.com) which is significantly reduced from list price. Insight is a global supplier with branches around the world. Reference quote number 220197285.

Contact info.

Mil Fisher mil.fisher@insight.com

or

Jason Sullivan jason.sullivan@insight.com

18.5 Appendix E

Bar Code Printers

Siemens has negotiated supplier pricing with Peripheral Resources, Inc. (PRI) for Citizen printers (www.peripheralresources.com) which is significantly reduced from list price. PRI, will ship printers internationally if unavailable from local sources. Have PRI reference Siemens quote dated 30 May, 2018.

Contact info.

Orlando Baez orlando@peripheralresources.com

Main Telephone	1 (310) 837-5888
Toll Free	1 (800) 533-2297
Fax	1 (310) 837-0222

18.6 Appendix F

Computers

Siemens has negotiated supplier pricing with Dell for a, OptiPlex 3060MT mid tower PC that will easily run the BarTender application as well as other software. Please contact the below representative if you are interested in buying one or more systems, for updated pricing.

Logan Arnold

E-mail Logan_arnold@dell.com

Reference Siemens Quote: 3000027388282.4

and

Deal ID: 16272749

19. Handling non-conformity / quality violation

The supplier must ensure compliance with the regulations in this document or product-specific requirements for packaging and labeling for all its shipments.

If the specified requirements are not met, Siemens will notify the supplier about the non-conforming delivery (non-conformity / quality violation) accordingly.

The supplier must decide on and implement immediate actions to rectify the cause of the problem and to ensure the continuous supply to Siemens, based on the relevant requirements.

Additional costs (e.g. additional handling, repackaging, relabeling, disposal, transport costs, etc.) directly related to the failure caused by the supplier will be claimed by Siemens to the supplier.

Non-conformity / quality violation and delivery performance will have a direct impact on the annual supplier assessment.

Deviation from this LBL-0101 specification requires the written consent of the SBT Commodity Manager, SBT Supplier Quality Engineer and the local Warehouse Manager.

Electronic version of this document takes precedence over any printed copy.

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