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Logistics & Packaging

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1.0 Introduction

1.1 Purpose & Scope of the Guideline

In this guideline, the logistics requirements are communicated to the suppliers. The guideline is the subject of supplier relations between external suppliers and GE Power Conversion Berlin (GE PC) and in principle to be adhered to, unless otherwise agreed. The guideline is part of the order and applies to all deliveries, regardless of destination, unless otherwise agreed in writing between the supplier and GE PC.

This guideline is specifically to be applied to the processes in the GE Power Conversion factory in Berlin, Germany.

GE PC has been a reliable partner to its customers for many years. This is partly due to its own high standard. Securing this high standard begins in the logistics chain at our suppliers.

With the help of this guideline a trouble-free and rational material flow between supplier and GE-PC is to be guaranteed.

The aim is to consider logistics issues in the overall process to minimize costs and maintain competitiveness through the following common principles and benefits:

- minimal complexity and maximal flexibility
- simplification of handling goods/containers
- guarantee of process reliability
- suitable protection of components to minimize damages
- prevention of waste, smart process varieties and quick cycle time
- CIP: continuous improvement process



1.2 Delivery Times & Points of Contact

GE Power Conversion Berlin accepts deliveries during the following times:

Monday - Thursday 07:00-09:00

09:20-12:00 12:25-15:00

Friday 07:00-09:00

09:20-12:00 12:25-14:00

For some major suppliers a fix delivery schedule is implemented and mandatory.

Deliveries exceeding the standard times or fix delivery schedule have to be coordinated with the material logistics department (see contact persons goods receive).

Table 1 GE Points of Contact

Departments	Contact Person	Phone	E-Mail
Material Logicstics	Sascha Hobert	+49 30 76 22 - 2785 +49 160 909 032 67	sascha.hobert@ge.com
Goods Receive >30kg (Big parts/Pallets)		+49 30 76222670	
Quality	Sebastian Koppelmeyer	+49 30 76222290	sebastian.koppelmeyer@ge.com
Materials Mgmt./ Purchasing	Anna Lindemann-Pehl	+49 30 76222190	anna.lindemannpehl@ge.com



1.3 Data sheets and Test certificates

Data sheets and test certificates of purchased products are solely supposed to be sent to the following mailing address:

datenblaetter_pruefprotokolle@ge.com

Attention should be paid to the following rules concerning description/ naming of the file name:

- a) File name for data sheets = GE PC material number
- b) File name for test certificates = GE PC purchase order number (PO)

2.0 Procedures

2.1 Packaging Requirements

2.1.1 Forming of Packaging Units

The following criterias have to be taken care of when forming packaging units and their transport protection:

- partial delivery unmixed and damage-free
- usage of damage-free and clean packaging, anticorrosive coating
- optimal usage of shipping space by forming efficient packaging units
- designated filling quantities
- no incomplete layers! Stackability
- observe designated standard dimensions and no sticking out of packagings
- securing of load by strapping with plastic bands (no metal band), shrink- and/or stretch wrap, if necessary edges-strengthening, minimal packaging material usage
- avoid and reduce to a minimum the combination of materials or connections. materials
 have to be separable if necessary (e.g. iron clamps or nails in wood)
- handlingoption through industrial truck has to be ensured
- possibility of simple material unloading

2.1.2 Requirement for Reducing Packaging Waste



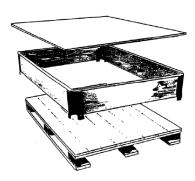


Figure 1 Example for pallet with stacked frames (Europoopallet must be used as far as the dimensions of the goods allow)

In general, packaging has to be planned in accordance with ecological and economical apsects. The supplier has to obey the legal regulations, esp. "VerpackungsVO". The aim of the refuse management of the environmental legislation contains, according with the ecological priorities:

- 1. The prevention, meaning the reduction of the packaging to the necessary amount
- 2. The reduction, reuse through the use of reusable packaging: The disposable amount has to be reduced
- 3. The environmental friendly, recycling: disposable packagings have to consist of usable material across the board, which are accepted to be recycled (with label)
- 4. No polystyrene chips
- 5. The packaging material used must always be recyclable across the board and clearly and visibly marked.

2.1.3 Measurements and Setup of Carrier

Only use reusable "Europoolpallets" (DIN EN 13698) are allowed. As a standard measurement for every packaging unit, use the following:

- Europoolpallets: 1.200 x 800 mm (Length x width)
- 1/2-Europoolpallets: 800 x 600 mm (Length x width)



• 1/4-Europoolpallets: $600 \times 400 \text{ mm}$ (Length \times width)

The **maximum weight** of a packaging unit is **1.000 kg gross**. The **maximum height** of a packaging unit must not exceed **1.500 mm**. Only in special cases and with the agreement of GE PC, the standard measurement and weight can be varied. For the lateral boundary of a pallet, the usage of a stackable frame is recommended. The complete packaging unit must be able to be handled with a industrial truck as seen below (setup).

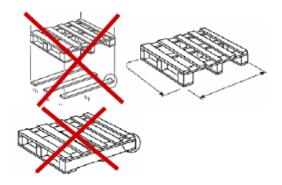


Figure 2 Representation approved and not approved pallets (Euro pallets mandatory as far as size of goods allow)

2.1.4 Modular Setup – Small Load Carrier

If a packaging unit consists of smaller special-, universaltcontainers or disposable packaging together, they have to be attuned to the standard measurements and the borders are not allowed to exceed (stand out) the unit. Moreover, the stackability has to be maintained. Small load carrier (SLC) are valid stackable up to 15kg in the sizes:

- 300 x 200 mm (length x width)
- 400 x 300 mm (length x width)
- 600 x 300 mm (length x width)



2.1.5 Transport Safety

The entire transport unit has to be secured with the aid of plastic straps, shrink- and/or stretch wrap, longitudinal- and lateral direction. In so doing, the wrapping tapes are not allowed to incise or damage the packagings. The wrapping tapes are only allowed to be made of reusable, environmental friendly material (no metal). If necessary, add additional protection for the corners of the unit for more safety.

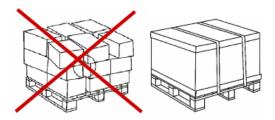


Figure 3 Examples for transport (un-)safe packaging unit

Disposable packagings will be provided by the supplier. Disposable paletts have to comply with all quality requirements. By forming packaging units, all components have to be secured so they cant shift/get out of place. Disposable cardboard boxes have to be on complete layers and must be aligned with the palett dimensions as mentioned in point 2.1.3.

If the filled packagings are not enough to complete the packaging unit, additional empty packagings have to be added and be assigned/labeled with "Leer/Empty". When using cardboard, always take care of the stackability.

2.1.5 Usage of Anti-Slip Mats

The carrier is responsible for proper goods safety and prevention of movement during transportation.

Anti-slip mats according to guideline VDI 2700 "Securing of loads on road vehicles" sheet 15 should be either provided by carrier or if not available there by supplier. Mats compliant with this guideline achieve a tensile strength of at least 0.6 Newtons per square millimetre and the elongation at break at least 60%.



The usage of the anti-slip mat increases the grip of paletts or cabinets and in combination with other transportation safety procedures prevents movement of the goods during transportation so risk of damage from the transportation is reduced.

At least four pieces should be used under the corners of pallets. For cabinets and skid frames the number of mats should increase so the maximum distance between the mats is less than 2 meters.



Figure 4 Usage of anti-slip mat under skid frame as additional transport protection

2.1.6 Protection against damages by stretching frames

Clamping boards/intermediate wall closures/clamping boards for transport protection may damage the transport goods. If necessary, the supplier must provide protection so that painted parts in particular are not damaged.





Figure 5 Risk of damage by stretching frames

2.1.6 Not Approved Packaging

If there are differences or wrong packagings as agreed on, then the supplier is responsible for the entire costs including handling and procedure costs.

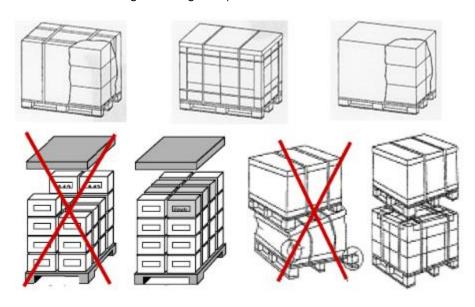


Figure 6 Examples for approved and not approved packaging (Europoolpallets used)



2.2 Features on Delivery

2.2.1 Electronic Parts

Electrostatic discharge sensitive devices (EDSD) must be transported in an electrostatically protected environment (ESD).

Devices such as open PCBs, microprocessors, ICs etc. can be destroyed through contact with environmental electricity. The supplier has to decide in each case, which parts are electrostatic discharge sensitive and how they will be packed and labeled according to EN 61340-5-1.

2.2.2 Sheet metal and Copper Parts

Each sheet metal and copper part must be directly marked with the GE Power Conversion Berlin material number (not drawing number). Parts shall be delivered on Europoolpallets or in SLC bins and marked with receiving labels (see section 2.3.2). For each packaging unit a number and a packing list must be attached and the colli number must be readable from outside.

Electronic Data Interchange (EDI) is desirable.



2 PO lines on pallet



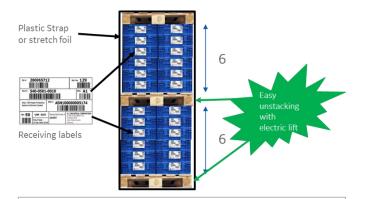
4 PO lines on pallet

Packing list and colli number

- · Optimized receiving label for each purchase order line needed with barcode for
 - Purchase Order
 - GE PC Part Nr
 - Quantity
 - · Deliver note or packing list or colli number
- Packing list
- Colli number

Figure 7 Delivery of sheet metal and copper parts on pallet with stacking frame





- · Maximum 6 bins stacked, no frames needed
- Easy processing
- Easy unstacking with electric lift

Figure 8 Delivery of sheet metal and copper parts in SLC bins

Large sheet metal parts must be stored in such a way that safe handling is possible. Under no circumstances may sheet metal parts be stored in such a way that they can tip over.

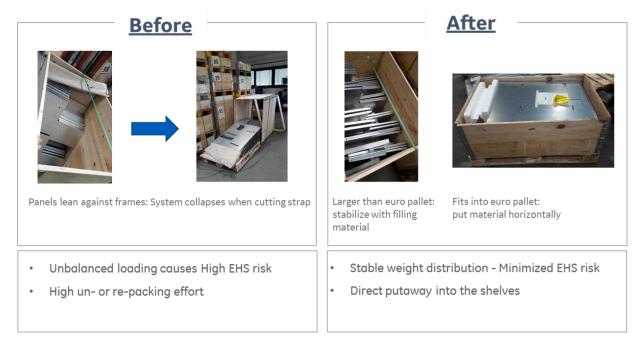


Figure 9 Dangers of loading units of large sheet metal parts

2.2.3 Plastic Parts



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Plastic parts shall be delivered in a europoolpallet with stacking frames. Material of a purchase order line shall be labeled with a receiving label (see section 2.3.2). Electronic Data Interchange (EDI) is desirable.





Figure 10 Delivery of plastic parts on a europoolpallet with stacking frame

2.2.4 Cable sets

Cable sets shall be delivered in SLC bins and marked with three different labels according to logistics, manufacturing and Engineering requirements (see figure 8). Electronic Data Interchange (EDI) is desirable.



- · Maximum 6 bins stacked, no frames needed
- Optimized receiving label containing barcodes for Delivery number, PO, Part Nr, Quantity
- Stretch foil or straps only around full stack of pallets (not around single stacks of blue bins)
- Easy unstacking with electric lift

Figure 11 Delivery of cable sets



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2.2.5 Mixed-Pallets

Forming a mixed-pallet (different material numbers on one packaging unit) needs the approval of GE PC. When shipping a mixed pallet, boxes with the same material numbers have to be put together on 1 pallet. Remaining quantity can be put together on a mixed-pallet. Every mixed-pallet has to be labeled with a special label saying "mixed-pallet".

2.2.6 Material-Sketch/Plan Update

When shipping materials with an updated sketch/plan of the material, the first delivery has to be extra labeled with the indication of an update on every packaging unit.



2.2.7 Samples

A sample consignment has to be labeled on the packaging unit as "sample" in addition to the normal label. On the delivery note the GE contact person as well as his contact data must be noted.

2.2.8 Special Agreements

All special agreements have to be coordinated in written form with the purchase department and the material logistics department of GE PC.

2.3 Labeling and Accompanying Documents

2.3.1 Delivery Note, Packing List and accompanying Document

Figure 9 shows a sample of a packaging list/delivery note. If possible add barcodes for delivery note/colli/packing list number, purchase order number, material number, quantity. For each purchase order number, the lines must be listed in ascending order from top to bottom.



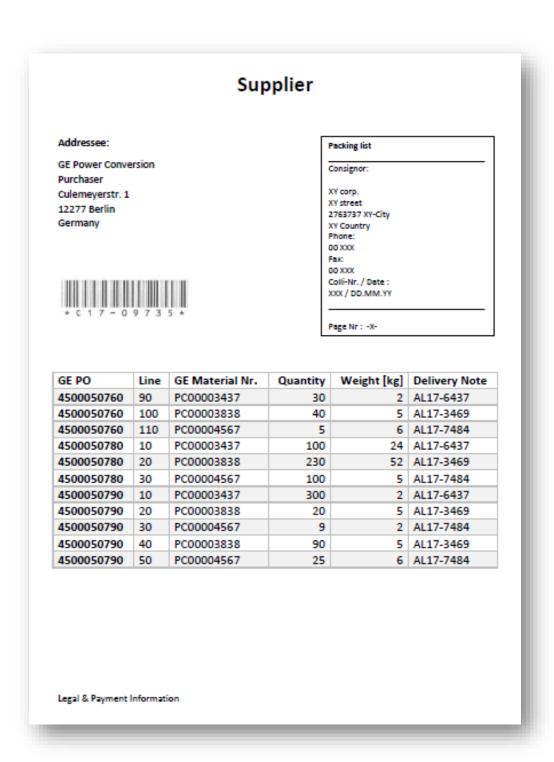


Figure 12 Sample Packing List/ Delivery Note (Line by line = easy to read)





Figure 13 Accompanying document as addition to the delivery note

2.3.2 Receiving Labels

The Receiving Label serves as clear identification of material, packaging units in the internal material flow of GE PC and on the transport route between supplier-carrier-recipient. Therefore, suppliers must ensure that all packages and load carriers are labeled with a carefully filled and bar-coded receiving label.

Especially the data on the receiving label has to be validated with the content in the packagings. To avoid misunderstandings, all expired and old labels have to be removed from the packagings by the supplier before sending them to GE PC. Note the following information concerning labels:



- Every packaging unit has to be labeled: 1 Receiving Label
- When using more than one shipping unit on one packaging unit (pallet), a Master Label or
 Colli-number has to be attached and/ or 1 receiving label per purchase order line
- Especially in the case of load carriers where no specially designated or suitable place is available and in order to protect the goods tags from damage, plastic protective bags should be used if necessary in order to maintain the readability of the labels.
- Labels from previous deliveries are to be removed.
- Ideally the labels must be attached to the lowest stacking frame so that they remain in place even after removing the remaining frames.
- The supplier is responsible for the fact that old labels attached to the frame are removed or made illegible by his staff.



2.3.2.1 Overview on Receiving Label Information

Table 2 shows the Information on the Receiving Label. The content of a barcode has to be provided as a clean copy for a manual capture (see figure 12).

Table 2 Receiving Label Information

Data Information	Receiving Label on Packaging	Directly on Material	Barcode	Example	Comment
GE Purchase Order Number	Х		X	45000XXXXX	
Advanced Shipping Notification # or Delivery note # or Colli# (One of them minimum as Barcode)	×		X	36363	
GE PC-Materialnr.	Х	If agreed	X	PLB029- 396838	Our Materialnr. of article
Quantity	Х		X	1 - X	The actual amount
Sender	X				Address of supplier
Recipient	×				Usually GE Power Conversion
Description, Delivery, Service	×				For example which point of contact "Mr. Mueller"
Net weight (kg)	If agreed				
Gross weight	If agreed				
Batch-Number	If agreed	If agreed	Х	Variable	Batch of material
Serialnr.	If agreed	If agreed	Х	Variable	Actual mat. Serialnr.



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2.3.2.2 Specifications

- Use code 128b or 39 alphanumeric bar code symbology (Standard Non Full ASCII).
 Definition See Appendix B. Code 128b is preferred because part numbers take up much less space than code 39.
- Fields must have barcodes and Human readable per the field specifications and as shown on the samples provided Appendix A for Purchase Order #, Release #, Part #, Rev#, Quantity, Serial #, ASN # (Advanced Shipment Notice).
- All fields will be coded exactly as in the original purchase order. Prefix or suffix characters such as a "GE" are not to be used.
- The fields within each label should be separated by horizontal thin lines and should contain their respective titles, as shown in the examples.
- Supplier must acknowledge and provide sample labels to GE Power Conversion through Supplier Barcoding Request Form. Any exceptions must to be reviewed by GE Power Conversion contact.
- A single point of contact at the Supplier should be designated. The contact will handle all bar code related problems.
- All bar codes printed on receiving label should be of very high quality, should be easily scanned and should be human readable.
- Label Material / paper shall be white in color with black text and printed with ink that does
 not smear if the label were to get wet. Multiple copies of labels on box are preferable to
 avoid blocking of labels by Freight Carrier labels. See Appendix C.
- In addition to Serial # barcode label sticker on box, it is required that an additional sheet of Serial # barcodes to be provided along with the packing list. Several occasions we've observed that serial # bar codes cannot be scanned because of scratches or marks during handling, as a result GE Power Conversion receivers have to open the box to separately scan serial # from the PCBA boards. To avoid dirt or damage the paperwork like packing slip and serial # bar code sheet to be provided in a plastic sleeve attached to the shipment. See Appendix C.



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Preferably the Code 39 or Code 128 should be used. Code 39 is specified in the ISO/IEC 16388, Code 128 is specified in the ISO/IEC 15417.

- Start- and stop sign will be displayed with a "*".
- The barcode is left-aligned
- Quiet-Zone: The gap from the begin/end of the barcode should have a minimum of 6,4mm to other elements
- The height of a barcode should not exceed 15% in relation to its length but should have a minimum of 13mm

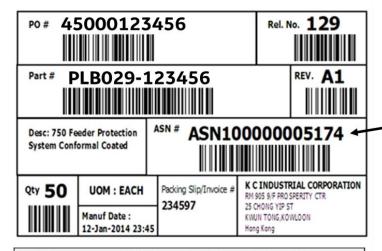


Figure 14 Barcode with Quiet-Zones and Start-/Stop sign

The check character is calculated from a modulo 103 calculation of the weighted sum of all the characters. Subtypes Code 128 barcodes may be generated specifically as 128A, 128B, or 128C. It is possible to change between each subtype at any time within a barcode.

- 128A 0-9, A-Z, ASCII control codes, special characters
- 128B 0-9, A-Z, a-z, special characters
- 128C 00-99 (double density encoding of numeric only data)





If ASN not available insert:

Delivery Note # / Packing List # / Colli #

The purpose of this image is to lay out the minimum requirement of order delivery information that needs to be barcoded. This image is not intended to provide the specific layout or template to Suppliers, which means, Supplier can use their existing templates and make sure that all information present on this image is included on Supplier's shipment labels.

Figure 15 Sample: Optimized Receiving Label

1. PO Number

- Human Readable and Barcode (Mandatory)
- The GE Power Conversion purchase order number as it appears on the GE Power Conversion purchase order.

2. Release number

- Human Readable and Barcode Required (Mandatory)
- The GE Power Conversion purchase order release number as it appears on the GE Power Conversion purchase order. If there is no release number on GE Power Conversion purchase order then keep it empty on the label.

3. Part Number

- Human Readable and Barcode Required (Mandatory)
- The GE Power Conversion part number as it appears on the GE Power Conversion purchase order. Please do not use prefix or suffix like "GE" in your barcode.

4. Revision

• Human Readable and Barcode Required (Desirable)



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• The GE Power Conversion part revision number as it appears on the GE Power Conversion purchase order.

5. Quantity

- Human Readable and Barcode Required (Mandatory)
- The actual quantity in the box supplied for a particular item.

6. Description

- Human Readable Required (Desirable)
- The GE Power Conversion part description as it appears on the GE Power Conversion purchase order.

7. Serial

- Human Readable & Barcoded Required (Mandatory)
- For serialized parts, in addition to put serial #s barcode label on the box, also provide a separate print out sheet of serial # barcodes along with packing list document in a plastic sleeve.

8. Manufacturing Date

- Human Readable Required (Desirable)
- The date the parts were manufactured.

9. ASN # Advanced Shipment Notification

- Human Readable & Barcoded Required
- The supplier shall provide ASN # barcode. Going forward ASN# will be used by GE
 Power Conversion to completely automate receiving process.
- If not available insert 11. Packing slip#, Delivery Note# or Colli #

10. Supplier Address

- Human Readable Required (Desirable)
- The supplier's name and address.

11. Packing Slip/Invoice

• Human Readable (Mandatory), Barcoded (Mandatory)



Appendix A: Sample: Serial Number Barcodes Sheet



Figure 16 Sample: Serial Number Barcodes Sheet

Appendix B: Definition of Code 39 symbology (standard non-full ASCII)

Code 39 -- (3 of 9 Code) - A discrete, variable length, bar code symbology encoding the characters 0 to 9, A to Z, and the additional characters - (dash), . (period), Space, \$ (dollar sign), / (slash), + (plus sign), and % (per cent sign), as well as a special symbology character to denote the start and stop character, conventionally represented as an * (asterisk). Each Code 39 symbol consists of a leading quiet zone, a start symbol pattern, symbol characters representing data, a stop pattern, and a trailing quiet zone. Each Code 39 character has three wide elements out of a total of nine elements. Each symbol consists of a series of symbol characters, each represented by five bars and four intervening spaces. Characters are separated by an inter-character gap. Each element (bar or space) is one of two widths. The values of the X dimension and N remain constant throughout the symbol. The particular pattern of wide and narrow elements determines the character being encoded. The inter-character gaps are spaces with a minimum nominal width of 1X.

Code 128 is a very high-density barcode symbology, used extensively worldwide in shipping and packaging industries. GS1-128 (formerly known as UCC/EAN-128) is one of its variants. It is used for alphanumeric or numeric-only barcodes. It can encode all 128 characters of ASCII and is also capable of encoding two numbers into one character width, called double density. This feature is



evidence of it being designed to reduce the amount of space the bar code occupies to address the ever-increasing needs of item catalogs. Each printed character can have one of three different meanings, depending on which of three different character sets are employed. Code 128 is the major component of the labeling standard for GS1-128 (formerly known as UCC/EAN-128), used as product identification for container and pallet levels of retail markets.

Appendix C Reason for the requirement to send an additional copy of the bar coded information along with packing list in plastic sleeve



Figure 17 Carrier labels block the bar coded information

2.3.2.4 Implementation Process for Optimized Receiving Label

If not already done the supplier shall submit label samples through the Supplier Barcoding Request Form and positively implement this barcode requirement. Strict adherence to these specifications will reduce implementation costs and increase benefits for our suppliers and GE Power Conversion.

It is the responsibility of the supplier to provide barcode labels that meet all of the specifications listed in this document. The supplier shall be responsible for verifying the accuracy of the label and ensuring that the data is current and correct.

In case of any exceptions, Supplier is responsible to positively schedule a review with GE Power Conversion contact person to establish clear understanding and commitment.



2.3.2.5 Bar Coding Supplier Request Form

Please complete this form ans submit a sample

- 1. BAR CODED LABEL (Do not use Prefixes like a "P" in any of the barcodes)
- 2. SERIAL # BARCODE SHEET LIST

Both must sho	w actual GE Power Conversior	n data
Supplier Inforn	nation:	
Name:		
Address:		
Contact:		
Phone #:		
Email:		

SEND TO:

Sascha.hobert@ge.com

3.0 Delivery Complaint

Delivery on time, material labels and delivery documents in accordance with this logistics guideline, as well as clean and undamaged packagings are mandatory for a fluent logistics execution process. Due to deviations GE PC could undergo severe expenditures. Incoming deliveries will be checked by GE PC to ensure that the guidelines have been followed. As a general rule, GE PC deals with a violation of this guideline the same as with a quality defect. This has a negative effect on the evaluation of a supplier.



3.1 Consequences for Violation of this Guideline

All costs, damages and expenditures which are a result of a noncompliance of this guideline have to be taken by the supplier. GE PC is not committed to accept a delivery when there are significant deviations.



4.0 Document Revisions and Approvals

Version	Section Modified and Revision Description	Date	Author
1.0	Logistics and Packaging Guideline for Suppliers	03/15/2016	M.Anklam
1.1	Add: Data Sheets and Test Logs Section	07/08/2016	M.Anklam
1.2	Add: Break time in 1.2	10/11/2017	A. Waniek
1.3	Add and/ or update: Points of Contact, Bar Code Requirements, Sample Packaging list, Redesign Layout of document: General format, Table of Contents, Table of figures, List of tables	15/11/2017	B. Jeschke
1.4	Add and/ or update: Points of Contact	01/17/2019	S. Koppelmeyer
1.5	Added new chapter 2.1.5 Usage of Anti-Slip Mats	11/04/2020	S. Koppelmeyer
1.6	Reference revised 8.4.3-GER-G1, added chapter 2.1.6	20/05/2021	S. Koppelmeyer

