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SIEM
Car Carriers

SIEM CONFUCIUS

Global Transport Label

Frequently Asked Questions (FAQs)

24.08.2023 / KL-MB/E

Vertraulichkeitsklasse: Public

VDA 4994 - Guideline

You can find the VDA 4994 at:

www.vwgroupsupply.com

and on the internet under the keyword "VDA 4994".

VDA | German Association
of the Automotive Industry

VDA Recommendation

Global Transport Label

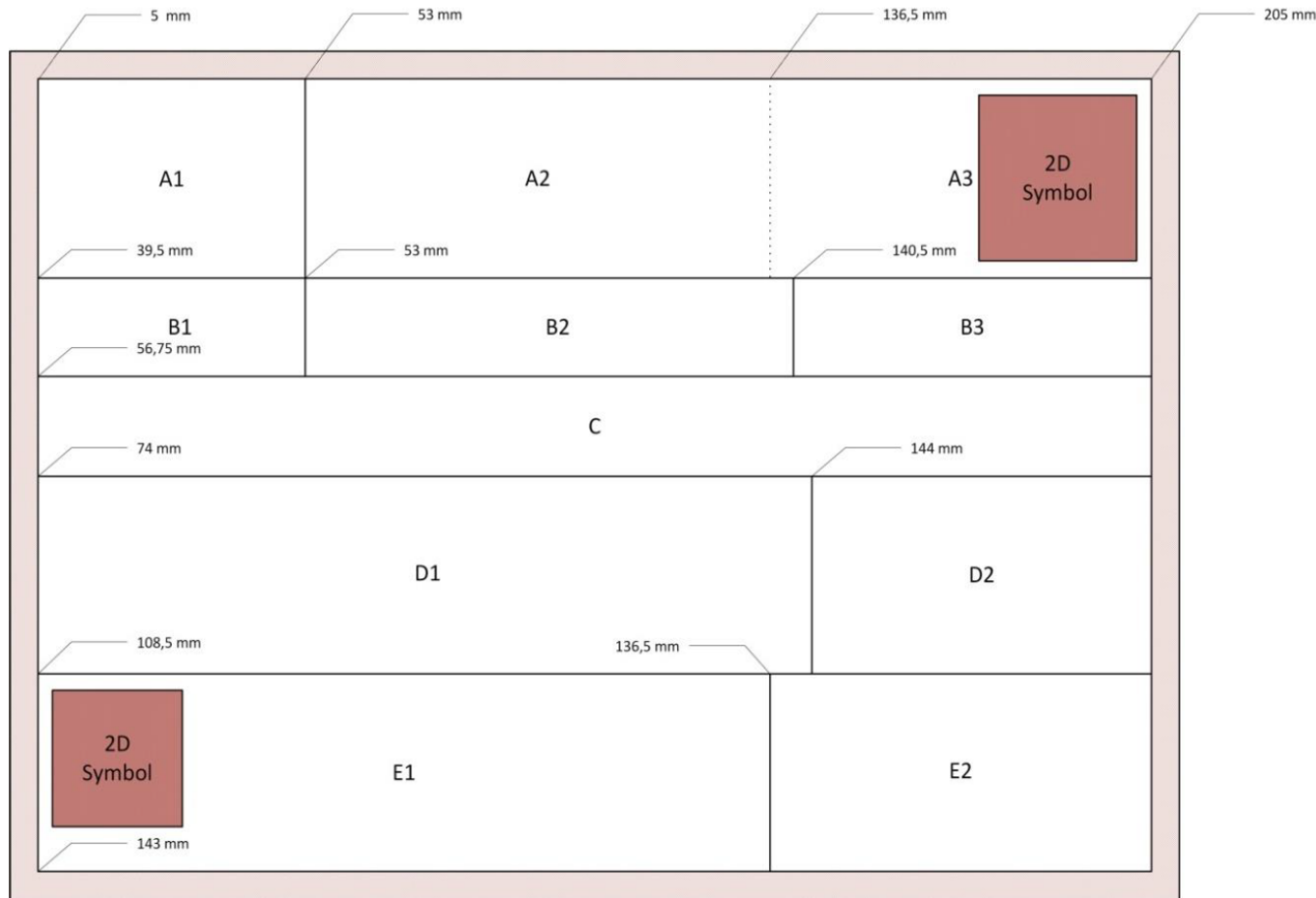
VDA 4994

Version 2.0, July 2023



Master-Label

Dimensions and layout of the data blocks in A5 format



- A1 – Ship from
- A2 – Ship to
- A3 – Labeltype and 2D barcode
- B1 – Customer reference 1
- B2 – Customer routing information
- B3 – Logistic reference
- C – Article number of the customer
- D1 – License plate
- D2 – Customer reference 2
- E1 – Supplier field
- E2 – Customer reference 3

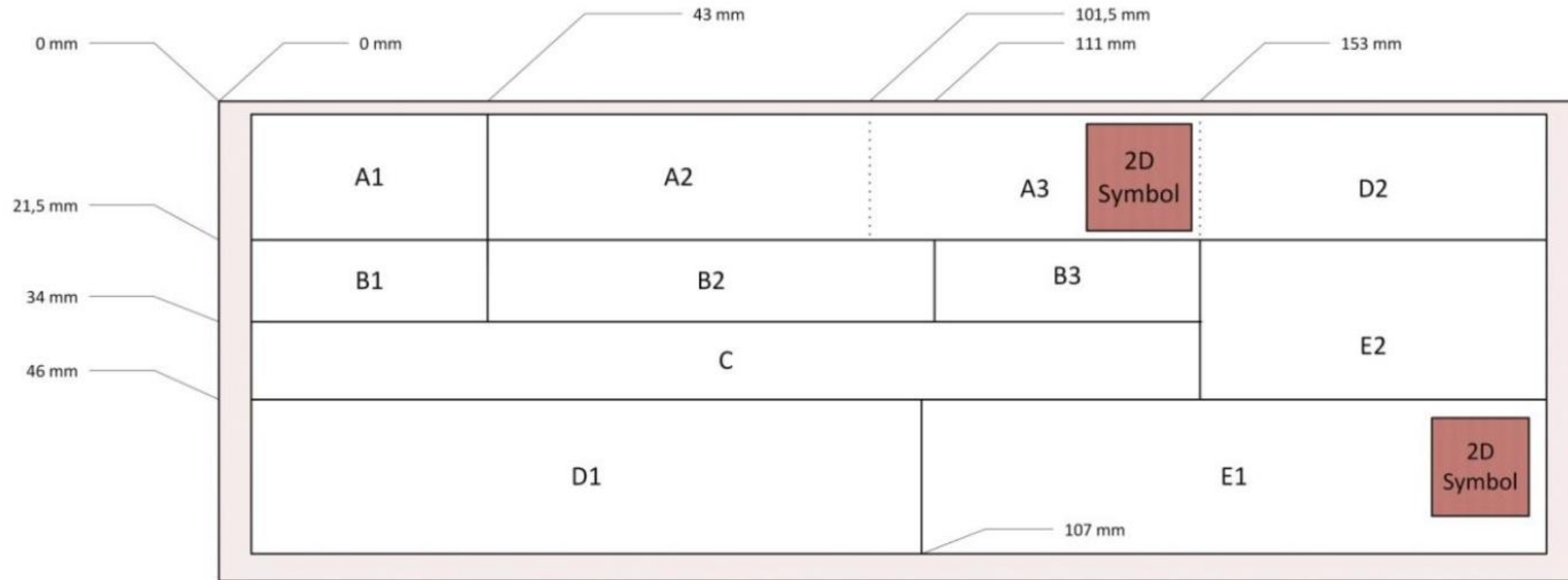
Further details: [VDA 4994](#)

Master-Label
Completely filled

<small>VERSENDER</small> LIEFERANT AG WERK BERLIN BERLIN DE-10117 ID: 887766554		<small>EMPFÄNGER</small> KUNDE AG WERK MUENCHEN INDUSTRIEPARK 13 DE 80888 MUENCHEN <small>WERK / ABLADESTELLE / INTERNER BESTIMMUNGSTORT</small> 011 / ABLAD123 / LAGER7		M 	
<small>URSPRUNGSLAND</small> DE					
<small>LIEFERSCHEINNUMMER</small> 12345678		<small>KUNDENSPEZIFISCHES ROUTING</small> ROUTE 66 LINE15		<small>ETA</small> 2016-01-15/13:30	
<small>LIEFERANTENNUMMER</small> 123456789				<small>MENGE (ST)</small> 1000000 <small>NETTO KG</small> 9999 <small>BRUTTO KG</small> 19999	
<small>SACHNUMMER</small> GFS-123-554-765 					
<small>PACKSTÜCK-ID (6J)</small> UN 987654321 000123456 				<small>PACKMITTELTYP</small> 0009PAL <small>VERSANDDATUM</small> S 2016-01-14 <small>CHARGENNUMMER</small> <small>ANZ INNERE PACKM.</small> 40	
<small>LIEFERANTENSPEZIFISCHE DATEN</small>  Lieferantendaten Zeile 1 Lieferantendaten Zeile 2 Lieferantendaten Zeile 3		KUNDENDATEN ZEILE 1 CUSTOMER DATA LINE 2 KUNDENDATEN ZEILE 3 CUSTOMER DATA LINE 4 KUNDENDATEN ZEILE 5			

Single-Label

Dimensions and layout of the data blocks KLT1



For explanations of the data blocks see master label

Single-Label
Completely filled

VERSENDER LIEFERANT AG WERK BERLIN BERLIN DE-10117 ID: 887766554 URSPRUNGSLAND DE LIEFERSCHEINNUMMER 12345678		WARENEMPÄNGER KUNDE AG WERK MUENCHEN DE 80888 MUENCHEN WERK / ABLADESTELLE / INTERNER BESTIMMUNGSORT 011 / ABLAD123 / LAGER7 KUNDENSPEZIFISCHES ROUTING Z1Y2X3W4V5U6T7		S 		PACKMITTELTYPE 6280RL CHARGENNUMMER CH1234 TEILEGER.-/HARDW.-/SOFTW.-STAND / / V3.0B654		VERFALLDATUM E 2016-01-14	
SACHNUMMER STEUERGERAT GFS-123-554-222		ETA 2016-01-15/13:30 MENGE (ST) 10 BRUTTO 10 NETTO 7.8				KUNDENDATEN ZEILE 1 CUSTOMER DATA LINE 2 KUNDENDATEN ZEILE 3 CUSTOMER DATA LINE 4 KUNDENDATEN ZEILE 5			
PACKSTUCK-ID (1J) UN 987654321 000123458 		DATEN DES LIEFERANTEN ZEILE 2 ZEILE 3							

Data Matrix

Which type of the Data Matrix should be used?

The data matrix according to ECC200 is to be used. This is characterised by a black "L-shaped search pattern" and an opposite dashed clock pattern also in "L-shape".



According to which standard is the Data Matrix to be created?

The Data Matrix must be created in accordance with ISO/IEC 16022.

Which control characters must be used in the 2D barcode?

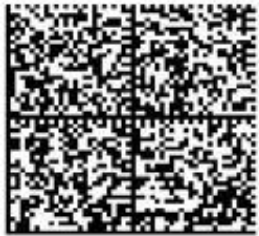
The syntax control characters according to ISO/IEC 15434 must be used. These can be represented as follows:

ASCII	Hex	Dezimal	Bezeichnung
()>	5B, 29, 3E	91, 41, 62	Compliance Indicator
_R	1E	30	Format Trailer Character
06	30, 36	48, 54	Formatindikator für „ASC DIs“
_G	1D	29	Data Field Separator
_E 0 _T	04	4	Message Trailer

Data Matrix

Quality examples

Contrast: Is the contrast enough?



Good



Modules too bright



Background is too dark

Modulation: Are all modules equally dark?



Good modulation

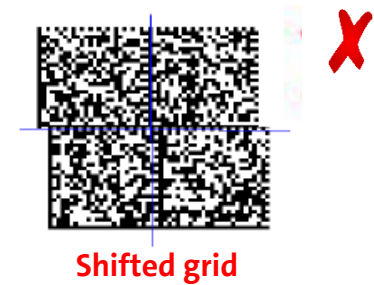
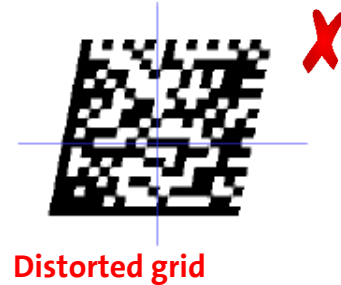
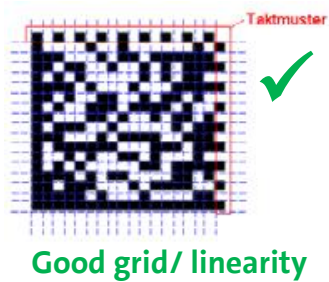


Bad modulation
(differences in brightness of the modules)

*If you have any questions, please
contact your printer manufacturer.*

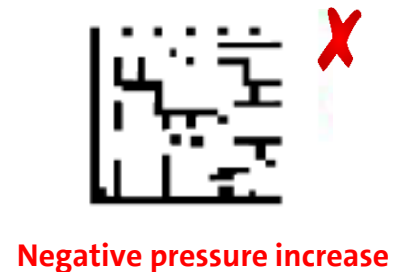
Data Matrix Quality examples

Grid nonlinearity: Are there deviations of the grid derived from the clock pattern to the ideal grid?



Pressure increase: Are all modules the same size?

The increase in pressure can be positive or negative. Depending on the printing technique and substrate, the pressure may be too strong or too weak.



If you have any questions about this, please contact your printer manufacturer.

Package ID Structure

DI	IAC	CIN	SN
Data Identifier	Issuing Agency Code	Company Identification Number/ DUNS	Serial Number
an..2	an2	an..9	n..9
1J	UN	987654321	123456789



General tips for good barcodes

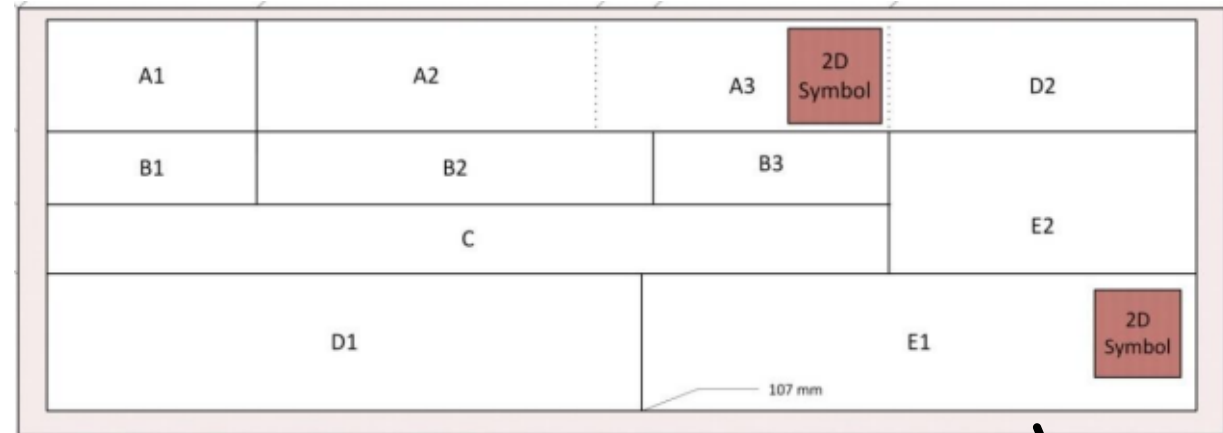
1. Increase in module size (while maintaining quiet zones).
2. Increase the resolution to e.g. 720 dpi.
3. Printing with edge smoothing.
4. Printing in the fence method (code 128).
5. Reduction of the printing speed.
6. In some cases, the amount and/or type of ink can influence the blackness of the print.
7. Please check if the printer is maintained and if you use the materials recommended by the manufacturer for printing.
8. Use standardized software that puts the codes on paper as "code" and not as graphics.

03.04 Delivery condition: Global Transport Label

- Compliance with quiet zones and positioning GTL-Small-Label (3-inch label) on the load carrier KLT (analogous to SLT)

D1- Package ID

Function:	Transmission of unique package ID (license plate)
Title:	PACKAGE ID
Content:	Package ID in plain text, formatted (with spaces between IAC, CID and serial number; see also chapter 6), preceded by data identifier in brackets. Globally unique package ID in the form of a barcode, encoded according to code 128. 6 mm minimum blank area to the left and right. For details regarding the package ID, see chapter 6. For details regarding the barcode, see chapter 7.



5mm margin left, right, bottom / 2mm margin top for label holder

7.1 1D barcode

The barcode is a code 128 barcode. It contains the package ID (licence plate). In readable versions, the data identifier (1J, 5J, 6J) is omitted. Otherwise, the barcode corresponds to the readable version of the package ID. Spaces are only included to make the printed text more readable but are omitted in code 128.

The following module widths apply in Code 128 depending on the selected paper format:
A5 module width X = minimum 0.51 mm (20 mil) and maximum 0.64 mm (25 mil).
KLT1, KLT2 and KLT3 = maximum module size 0.46 mm (18 mil).

The quiet zone to the right and left edge is ten times the module size. The size of the quiet zone ($X \cdot 10$) must always be guaranteed depending on the selected module width and DI.

The minimum height of code 128 for SLC 1, A6 and 6" x 4" Labels is 15mm. For A5 Labels, the minimum is 17mm. However for A5 and Half-Letter Labels, we recommend that the barcode is 20mm high.

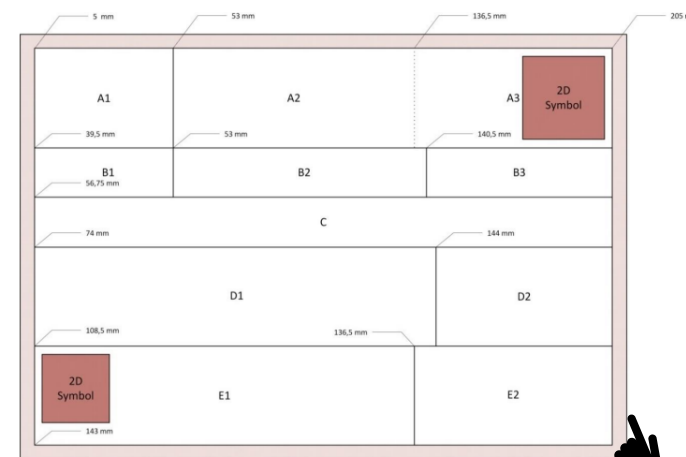


03.04 Delivery condition: Global Transport Label

- Compliance with rest areas and positioning **GTL-A5 label** (6-inch label) on the load carrier KLT (analogous to SLT)

D1- Package ID

Function:	Transmission of unique package ID (license plate)
Title:	PACKAGE ID
Content:	Package ID in plain text, formatted (with spaces between IAC, CID and serial number; see also chapter 6), preceded by data identifier in brackets. Globally unique package ID in the form of a barcode, encoded according to code 128. 6 mm minimum blank area to the left and right. For details regarding the package ID, see chapter 6. For details regarding the barcode, see chapter 7.



5 mm margin left, right, top, bottom for label holder

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Package ID

Compression of the License Plate

The numeric compression describes the switching of the character sets in the barcode 128. At the beginning of the barcode 128, the character sets "A" or "B" must be used, because this is also able to print letters from A-Z. The character sets "A" and "B" can be used in the barcode 128. However, these can only decode single digits from 0-9 in a symbol.

The character set "C", on the other hand, can represent pairs of values from 00-99 in a symbol. By switching from character set "A/B" to character set "C", the barcode can be compressed. This is always indispensable if the width of the barcode means that compliance with the quiet zones can no longer be guaranteed.

Correct application of the labels

Attach master label to both the long and short sides of the load carrier.

The GTLs are to be attached exclusively with weather-resistant and residue-free removable adhesive dots, strips.

NEUE
VERPACKUNGSREGELN

For further information including examples can be taken from the following document:

▶ [Information_für_Lieferanten_Belegposition_Anlage_final_DE_EN.pdf](#)

Examples of incorrect attachment



- Please do not attach the master label under/above the load unit fuse!

Examples of incorrect attachment



- Overstickered barcode
- Important information covered by adhesive dot. Please do not paste over!

Examples of incorrect attachment



- Do not attach the master label to the lid!

Examples of incorrect attachment



- Do not place the master label under foil or a shipping bag!

Examples of incorrect attachment



- Please do not attach the master label under the end cap!

Examples of incorrect attachment

- No old labels on the loading unit
- No receipts other than the GTL provided for



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