Changes

[03] update Chap.2 “Process” with Chap. “Packaging materials and legal & environmental requirements”

Previous Editions

[02] ZPA-18140007: Correction of typing errors in the outside dimension of KLT 3147 and KLT 3115
[01] ZPA-18140005, 20.08.2018, vs 01: Supplement of expendable corrugated cardboard boxes (KLT & GLT) and lids/ covers
[01] ZPA-18140005, 20.08.2018, vs 01: Supplements/changes at the TST content are marked with [01]
[00] ZPA-17140006, 15.12.2017: last published version 00

1 SCOPE

The purpose of this norm is to use uniform Continental Automotive (CA) Packaging Standards within the Supply Chain for CA internal processes, for CA Intercompany Business and for deliveries from Suppliers to CA plants.

This norm is valid worldwide and considers regional standards.

This catalog gives an overview about expendable and returnable Packaging Standards including special technical details and information about usage. It shall be used as a pre-requisite and guidance for choosing and developing the best packaging concept.

1.1 Reasons for standardization of packaging

Packaging standardization is necessary in order to ensure a consistent quality of packaging material and thus a permanently stable material flow and protection of components. Thus we ensure the improvement of the supply chain process:

› Optimize costs of the supply chain
› No time needed for development of packaging standard
› Less time needed for development/definition of packaging concepts
› Reduce procurement times
› Ensure a quality standard: Less damages
› No further tests for new packaging materials are necessary
› Optimize utilization of means of transportation (e.g. stackability, container optimized dimension)
› Prerequisite for network of returnables (pooling)
› Balancing of production peaks (prevention of bottlenecks regarding missing empties)
› Simplify handling, warehousing, administrative processes (e.g. management of empties, data maintenance)
2 PROCESS

The standards should be considered during the packaging concept development process and definition within the Packaging Specification Data Sheet - PSDS (s. TST N 098 01.01 000).

2.1. Packaging materials and legal & environmental requirements

2.1.1 Universal recycling Symbols

There are so many variants and name of these logos. These are the internationally recognized for symbol for recycling activity. The logo depicted is a Möbius strip or Möbius loop. Many variations on the logo had been created since its creation, like the next universal Recycling symbols or the Resy logo. They are no longer sufficient for the individual identification of the packaging.

<table>
<thead>
<tr>
<th>Universal recycling Symbols (voluntarily)</th>
<th>Recycling Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>This is a well-known, established and widely used eco-label. It is a voluntary label.</td>
</tr>
<tr>
<td></td>
<td>This eco-label is not linked to a specific quality of the product. It symbolizes only the recyclability of the packaging.</td>
</tr>
<tr>
<td></td>
<td>It is used to identify various materials for return to the recycling cycle.</td>
</tr>
</tbody>
</table>

RESY

This eco-label symbolizes the complete disposal and material recycling of all transport and outer packaging made of paper and cardboard marked with the RESY symbol.

By applying the RESY symbol, the requirements of the packaging law for transport packaging are met.

BUT: The RESY sign is not part of the mandatory environmental labeling information. It can be added voluntarily.

2.1.2 Alphanumeric codes of the virgin packaging material

All suppliers and CA plants are requested to use recyclable packaging materials whenever possible, and under consideration of all necessary quality requirements. The purpose is to increase recycling recovery quota.


Each Packaging material shall be appropriately identified with the material type. The recycling symbols (alphanumerical coding) shall appear (printed engrave or punched) on every packaging material, e.g. symbols for plastics PET, HDPE, PP. The Implementation of this European commission 97/129/EC for all used packaging materials is globally mandatory.

<table>
<thead>
<tr>
<th>Virgin packaging material (Prescribed by the decision 97/129/EC)</th>
<th>Plastic recycling symbols</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Code-abbreviations:</td>
</tr>
<tr>
<td></td>
<td>01 PET</td>
</tr>
<tr>
<td></td>
<td>02 HDPE</td>
</tr>
<tr>
<td></td>
<td>03 PVC</td>
</tr>
<tr>
<td></td>
<td>04 LDPE</td>
</tr>
<tr>
<td></td>
<td>05 PP</td>
</tr>
<tr>
<td></td>
<td>06 PS</td>
</tr>
<tr>
<td></td>
<td>07 other plastic</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Virgin packaging material (mandatory worldwide)</th>
<th>Corrugated fibreboard / cardboard / paper</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Code-abbreviations: PAP</td>
</tr>
<tr>
<td></td>
<td>20 Corrugated cardboard / firbreboard</td>
</tr>
<tr>
<td></td>
<td>21 Cardboard</td>
</tr>
<tr>
<td></td>
<td>22 Paper</td>
</tr>
</tbody>
</table>
### 2.1.3 Alphanumeric codes of the composite/component and recycled packaging material

<table>
<thead>
<tr>
<th>Component or composite packaging material</th>
<th>The use of composite packaging should be avoided as much as possible. If this cannot be avoided, the composite material must also be marked accordingly (according to 97/129/EC and DIN 6120).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recycled content at packaging material</td>
<td>The DIN 6120 and ISO 1043-1 already refers to the possibility of coding the use of recycled material. The abbreviated term for the plastic type may be supplemented by the designation &quot;(REC)&quot;. If the percentage of recycled material is known, the designation (REC) as well as the minimum fraction of recycled material may be given as percentage by mass in brackets after the final letter of the abbreviated term for the plastic type, e.g. for a minimum of 30 % recycled material the designation would read &quot;(REC30)&quot;.</td>
</tr>
</tbody>
</table>

**Note:** Efforts to reduce the impact on the environment are also increasingly moving towards adding more and more recycled material to the new goods or making the products entirely from recycled material. We at CA are also striving to increase the proportion of recyclates in packaging material. Also in view of the upcoming demand for the Plastic Tax in European countries, the coding of this packaging with recycled content is essential and helps to control the disposal process and to calculate the charges for the plastic tax correctly.

### 2.1.4 Technical requirements of the marking

- The number of the coding must be placed in the central of the triangle.
- The letter sign of the code must be placed under of the triangle.
- The marking must be affixed to the outside of the package in a place and size clearly visible to the naked eye.
- All methods which are available for the marking is applicable. Printing, labelling, stamping, needling, or prickling, thermoforming, injection molding
  - => Except: In case of aftermarket / aftersales packaging, the prickling or needling is not allowed.
- In case of label method, the raw material of the label must be the same like the material of the packaging unit.
- In case of stamp method, use water based, environmental-friendly ink.
- The environmental sign must be mark on the drawing of the packaging unit.
- The part number change of the packaging unit is not necessary because of this added marking (CA internally).
- The marking method must be defined and included in the quotation.
3 REFERENCES

- TST N 098 00.01 000  Packaging Requirements
- TST N 098 01.01 000  Packaging specification Data Sheet - PSDS
- TST N 098 05.01 001  Expendable Packaging
- TST N 098 02.01 001  Container Optimized Wood Pallet L1108 and L1110 (1140x 790/980 x 140mm)
- TST N 098 02.02 000  Plastic-Pallets (general)

- VDA 4500 /4504  Recomendation could be find at VDA official web side (externally) and at WISDOM (CA internally)
- VDA 4525
- DIN EN 13698 -1 / -2  Flat pallet (-1: 1200x800 mm) (-2: 1200x1000mm) at WISDOM (CA internally)
- 97/129/EC; DIN 6120; ISO 1043-1

- GS CC  Global Supply Chain Concept

All CA documents, TSTs and Appendix are downloadable at the Continental Automotive Homepage for Suppliers: https://www.continental-automotive.com/en-gl/Passenger-Cars/Company/Supplier-Information/Supplier-Logistics

- FEFCO Codes  International fibreboard case code
### Overview

<table>
<thead>
<tr>
<th>Catalog</th>
<th>Page</th>
<th>Picture examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>KLT / Totes</td>
<td>5-7</td>
<td><img src="image1" alt="KLT Totes Example" /></td>
</tr>
<tr>
<td>Covers</td>
<td>8-11</td>
<td><img src="image2" alt="Covers Example" /></td>
</tr>
<tr>
<td>Pallets</td>
<td>12-15</td>
<td><img src="image3" alt="Pallets Example" /></td>
</tr>
<tr>
<td>Bins (GLT/FLC)</td>
<td>16</td>
<td><img src="image4" alt="Bins Example" /></td>
</tr>
<tr>
<td>Corrugated cardboard boxes (KLT cartons, KLT carton lids, layer slip lids, GLT cartons and lids)</td>
<td>17-20</td>
<td><img src="image5" alt="Corrugated Cardboard Boxes Example" /></td>
</tr>
</tbody>
</table>

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No guarantee can be given in respect of the translation. In all cases the latest English Language version of this standard shall be taken as authoritative.
### Continental Automotive Packaging Standard Catalog

#### Designation: KLT - non ESD

### 300 x 200 mm

<table>
<thead>
<tr>
<th>Nominal dimensions</th>
<th>Outside dimensions</th>
<th>Inside dimensions without cover</th>
<th>Color</th>
<th>Material</th>
<th>Net weight</th>
<th>Payload</th>
<th>Volume</th>
<th>Features</th>
<th>Link to documents</th>
<th>Picture</th>
</tr>
</thead>
<tbody>
<tr>
<td>L 200 mm</td>
<td>W 147 mm</td>
<td>H 177 mm</td>
<td>296 x 198 x 147,5 mm</td>
<td>243 mm</td>
<td>129,5 mm</td>
<td>blue RAL 5005</td>
<td>PP</td>
<td>0,6 lb</td>
<td>20 lb</td>
<td>5,3 gal</td>
</tr>
</tbody>
</table>

### 400 x 300 mm

<table>
<thead>
<tr>
<th>Nominal dimensions</th>
<th>Outside dimensions</th>
<th>Inside dimensions without cover</th>
<th>Color</th>
<th>Material</th>
<th>Net weight</th>
<th>Payload</th>
<th>Volume</th>
<th>Features</th>
<th>Link to documents</th>
<th>Picture</th>
</tr>
</thead>
<tbody>
<tr>
<td>L 300 mm</td>
<td>W 174 mm</td>
<td>H 156 mm</td>
<td>396 x 297 x 174 mm</td>
<td>285 mm</td>
<td>156 mm</td>
<td>blue RAL 5005</td>
<td>PP</td>
<td>1,1 lb</td>
<td>20 lb</td>
<td>11,8 gal</td>
</tr>
</tbody>
</table>

### 500 x 400 mm

<table>
<thead>
<tr>
<th>Nominal dimensions</th>
<th>Outside dimensions</th>
<th>Inside dimensions without cover</th>
<th>Color</th>
<th>Material</th>
<th>Net weight</th>
<th>Payload</th>
<th>Volume</th>
<th>Features</th>
<th>Link to documents</th>
<th>Picture</th>
</tr>
</thead>
<tbody>
<tr>
<td>L 400 mm</td>
<td>W 280 mm</td>
<td>H 213 mm</td>
<td>594 x 396 x 213,7 mm</td>
<td>423 mm</td>
<td>213,7 mm</td>
<td>blue RAL 5005</td>
<td>PP</td>
<td>2,3 lb</td>
<td>20 lb</td>
<td>38,9 lb</td>
</tr>
</tbody>
</table>

### Application area / Region

- Europe
- Asia
- North America
- South America

### Notes

- **CA SAP CSE**
- **Packaging part no**
- **Nominal dimensions**
- **Outside dimensions**
- **Inside dimensions without cover**
- **Color**
- **Material**
- **Net weight**
- **Payload**
- **Volume**
- **Features**
- **Link to documents**

### Additional Information

- **Designation**: CA SAP CSE
- **Packaging part-no**: 98-4500-3147-0-00
- **Color**: blue RAL 5005
- **Material**: PP
- **Features**: smooth bottom, drainage holes, suitable KLT cover D65
- **Link to documents**: VDA 4500 recommendation

### References

- **Automotive Supply Chain Management - Customs, Transportation Packaging (A SCM CTP)**
- **vs 01, 2018 Q3**

### Further Details

- **Actual size**: L 300 mm, W 174 mm, H 156 mm
- **Net weight**: 0.6 lb
- **Payload**: 20 lb
- **Volume**: 5.3 gal
- **Features**: smooth bottom, drainage holes, suitable KLT cover D65
- **Link to documents**: VDA 4500 recommendation

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**Legend**

- **KLT - non ESD**
- **VDA - RL - KLT - 3147**
- **VDA - RL - KLT - 4147**
- **RL - KLT - 4174 (non VDA recommendation)**
- **VDA - RL - KLT - 4213**
- **VDA - RL - KLT - 4280**
- **VDA - RL - KLT - 6147**
- **RL - KLT - 6174 (non VDA recommendation)**
- **VDA - RL - KLT - 6213**
- **VDA - RL - KLT - 6280**
<table>
<thead>
<tr>
<th>Designation</th>
<th>Type no</th>
<th>CA SAP CSE Packaging part-no</th>
<th>CA SAP CSE Packaging part-no</th>
<th>CA SAP CSE Packaging part-no</th>
<th>CA SAP CSE Packaging part-no</th>
<th>Material</th>
<th>Features</th>
<th>Link to documents</th>
<th>Application area</th>
<th>Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tote Straight Wall</td>
<td>0393-5</td>
<td>98-6000-0393-5-00</td>
<td>609.6 x 381 x 241.3</td>
<td>609.6 x 381 x 241.3</td>
<td>543.5</td>
<td>Gray RAL 7046</td>
<td>1.9</td>
<td>15.89</td>
<td>39.64</td>
<td>Straight Wall non ESD KLT</td>
</tr>
<tr>
<td>Tote Straight Wall</td>
<td>0393-4</td>
<td>98-6000-0393-4-00</td>
<td>609.6 x 381 x 190.5</td>
<td>609.6 x 381 x 190.5</td>
<td>543.5</td>
<td>Gray RAL 7046</td>
<td>1.6</td>
<td>15.89</td>
<td>31.10</td>
<td>Straight Wall non ESD KLT</td>
</tr>
<tr>
<td>Tote Straight Wall</td>
<td>0393-6</td>
<td>98-6000-0393-6-00</td>
<td>609.6 x 558.8 x 241.3</td>
<td>609.6 x 558.8 x 241.3</td>
<td>543.5</td>
<td>Gray RAL 7046</td>
<td>2.4</td>
<td>15.89</td>
<td>39.46</td>
<td>Straight Wall non ESD KLT</td>
</tr>
<tr>
<td>Tote Straight Wall</td>
<td>0393-7</td>
<td>98-6000-0393-7-00</td>
<td>609.6 x 558.8 x 190.5</td>
<td>609.6 x 558.8 x 190.5</td>
<td>543.5</td>
<td>Gray RAL 7046</td>
<td>2.8</td>
<td>15.89</td>
<td>39.46</td>
<td>Straight Wall non ESD KLT</td>
</tr>
</tbody>
</table>

**KLT with attached Lid - non ESD**

<table>
<thead>
<tr>
<th>Type with Attached Lid</th>
<th>Type with Attached Lid</th>
<th>Type with Attached Lid</th>
<th>Type with Attached Lid</th>
<th>Type with Attached Lid</th>
<th>Type with Attached Lid</th>
<th>Material</th>
<th>Features</th>
<th>Link to documents</th>
<th>Application area</th>
<th>Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tote with Attached Lid</td>
<td>1001</td>
<td>98-9010-1001-0-00</td>
<td>304.8</td>
<td>279.4</td>
<td>228.6</td>
<td>299.7</td>
<td>276.8</td>
<td>187.9</td>
<td>203.2</td>
<td>213.3</td>
</tr>
<tr>
<td>Tote with Attached Lid</td>
<td>1002</td>
<td>98-9010-1002-0-00</td>
<td>609.6</td>
<td>381</td>
<td>228.6</td>
<td>596.9</td>
<td>383.84</td>
<td>228.6</td>
<td>467.4</td>
<td>330.2</td>
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</table>

**FKLT (Foldable)**

<table>
<thead>
<tr>
<th>Type with Attached Lid</th>
<th>Type with Attached Lid</th>
<th>Type with Attached Lid</th>
<th>Type with Attached Lid</th>
<th>Type with Attached Lid</th>
<th>Type with Attached Lid</th>
<th>Material</th>
<th>Features</th>
<th>Link to documents</th>
<th>Application area</th>
<th>Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>VDA F-KLT 6410</td>
<td>6410</td>
<td>98-4550-6410-0-00</td>
<td>609.6</td>
<td>400</td>
<td>288</td>
<td>535</td>
<td>357</td>
<td>257</td>
<td>PP</td>
<td>7.48</td>
</tr>
<tr>
<td>Designation</td>
<td>Type no</td>
<td>CA SAP CSE Packaging part-no</td>
<td>Nominal dimensions (mm)</td>
<td>Outside dimensions (mm)</td>
<td>Inside dimensions without cover (mm)</td>
<td>Color</td>
<td>Material</td>
<td>Net weight (kg)</td>
<td>Payload (lb)</td>
<td>Volume (Liter)</td>
</tr>
<tr>
<td>-------------</td>
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</tr>
<tr>
<td>KLT - ESD</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>300 x 200 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VDA - RL - KLT ESD - 3115</td>
<td>3115</td>
<td>98-4500-3115-0-00</td>
<td>300 200 147</td>
<td>296 x 198 x 147,5</td>
<td>243 162 129,5</td>
<td>black</td>
<td>PPL</td>
<td>8.6</td>
<td>20</td>
<td>5.3</td>
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<tr>
<td>VDA - RL - KLT ESD - 4047</td>
<td>4047</td>
<td>98-4500-4047-0-00</td>
<td>400 300 147</td>
<td>396 x 297 x 147,5</td>
<td>345 260 129,5</td>
<td>black</td>
<td>PPL</td>
<td>1.2</td>
<td>20</td>
<td>11.8</td>
</tr>
<tr>
<td>RL - KLT ESD - 4074</td>
<td>4074</td>
<td>98-4500-4174-0-00</td>
<td>400 300 174</td>
<td>396 x 297 x 174</td>
<td>345 260 156</td>
<td>black</td>
<td>PPL</td>
<td>1.5</td>
<td>20</td>
<td>13.2</td>
</tr>
<tr>
<td>VDA - RL - KLT ESD - 4013</td>
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<td>98-4500-4013-0-00</td>
<td>400 300 213</td>
<td>396 x 297 x 213,7</td>
<td>345 260 196</td>
<td>black</td>
<td>PPL</td>
<td>1.5</td>
<td>20</td>
<td>17.9</td>
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<tr>
<td>VDA - RL - KLT ESD - 4080</td>
<td>4080</td>
<td>98-4500-4080-0-00</td>
<td>400 300 280</td>
<td>396 x 297 x 280</td>
<td>345 260 262</td>
<td>black</td>
<td>PPL</td>
<td>1.9</td>
<td>20</td>
<td>24.1</td>
</tr>
<tr>
<td>600 x 400 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>VDA - RL - KLT ESD - 6047</td>
<td>6047</td>
<td>98-4500-6047-0-00</td>
<td>600 400 147</td>
<td>594 x 396 x 147,5</td>
<td>544 359 129,5</td>
<td>black</td>
<td>PPL</td>
<td>2.0</td>
<td>20</td>
<td>25.0</td>
</tr>
<tr>
<td>RL - KLT ESD - 6074</td>
<td>6074</td>
<td>98-4500-6174-0-00</td>
<td>600 400 174</td>
<td>594 x 396 x 174</td>
<td>544 359 156</td>
<td>black</td>
<td>PPL</td>
<td>2.0</td>
<td>20</td>
<td>30.4</td>
</tr>
<tr>
<td>VDA - RL - KLT ESD - 6013</td>
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<td>98-4500-6013-0-00</td>
<td>600 400 213</td>
<td>594 x 396 x 213,7</td>
<td>544 359 195</td>
<td>black</td>
<td>PPL</td>
<td>2.5</td>
<td>20</td>
<td>38.9</td>
</tr>
<tr>
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<td>600 400 280</td>
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<td>544 359 262</td>
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<td>PPL</td>
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<td>51.9</td>
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## Covers

<table>
<thead>
<tr>
<th>Designation</th>
<th>Type no</th>
<th>CA SAP CSE Packaging part no</th>
<th>Nominal dimensions</th>
<th>Outside dimensions</th>
<th>Color</th>
<th>Material</th>
<th>Net weight</th>
<th>Features</th>
<th>Link to documents</th>
<th>Application area / Region</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>L x W x H mm</td>
<td>L x W x H in</td>
<td></td>
<td></td>
<td>kg</td>
<td></td>
<td></td>
<td>Europe</td>
</tr>
<tr>
<td>VDA KLT cover D35</td>
<td>D35</td>
<td>98-4500-3235-0-00</td>
<td>300 x 200</td>
<td>297 x 198</td>
<td>blue, RAL 5003 (R-KLT), RAL 5005 (RL-KLT)</td>
<td>PP</td>
<td>0.09</td>
<td>compatible for VDA R-KLT and RL-KLT 300x200, sealable</td>
<td>new VDA 4500 recommendation (since Oct 2011)</td>
<td>X</td>
</tr>
<tr>
<td>KLT cover D39</td>
<td>D39</td>
<td>98-4500-3215-0-00</td>
<td>300 x 200</td>
<td>297 x 198</td>
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<td>0.67</td>
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Covers

R/- RL KLT Covers

300 x 200 mm

400 x 300 mm

600 x 400 mm
### Covers

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<th>Designation</th>
<th>Type no</th>
<th>CA SAP CSE Packaging part-no</th>
<th>Nominal dimensions</th>
<th>Outside dimensions</th>
<th>Color</th>
<th>Material</th>
<th>Net weight</th>
<th>Features</th>
<th>Link to documents</th>
<th>Picture</th>
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#### ESD R-/RL KLT Covers

**300 x 400 mm**

| VDA ESD KLT-D 31 ESD | D 31 | 98-4500-3231-0-00 | 300 x 200 mm | 297 x 198 mm | black | PPL | 0.1 | compatible for VDA ESD R-KLT and RL-KLT 300x200, sealable | VDA 4504 recommendation | ![Picture](3) |

**400 x 300 mm**

| VDA ESD KLT-D 41 ESD | D 41 | 98-6000-0030-0-00 | 400 x 300 mm | 396 x 297 mm | black | PPL | 0.3 | compatible for VDA ESD R-KLT and RL-KLT 400x300, sealable | new VDA 4504 recommendation (since Oct 2011) | ![Picture](4) |
| VDA ESD KLT-D 41 ESD | D 41 | 98-4500-4341-0-00 | 400 x 300 mm | 396 x 297 mm | black | PPL | 0.3 | compatible for VDA ESD R-KLT and RL-KLT 400x300, sealable | old VDA 4504 recommendation (till Sep 2011) | ![Picture](5) |

<p>| ESD cover D41 without ribs | D 41 | 98-4500-4329-9-00 | 400 x 300 mm | 396 x 297 mm | black | PPL | 0.48 | compatible for VDA R-KLT and RL-KLT 400x300, sealable | (no VDA recommendation) | <img src="6" alt="Picture" /> |</p>
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<th>Features</th>
<th>Link to documents</th>
<th>Picture</th>
<th>Application area / Region</th>
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<td>for loading units for all VDA KLT-types (ESD)</td>
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### Expendable and Returnable Pallet

#### General requirements

**Base frame construction:**
- **3-skid pallets:** 4-way-entry pallets

**Underrideability:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Designation</th>
<th>Type no</th>
<th>CA SAP CSE Packaging part no</th>
<th>Nominal dimensions</th>
<th>External dimensions</th>
<th>Color</th>
<th>Material</th>
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<th>Max.payload</th>
<th>Max.payload, static load</th>
<th>Max.payload, dynamic load</th>
<th>Features</th>
<th>Link to documents</th>
<th>Picture</th>
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</tbody>
</table>
### Expendable and Returnable Pallet

**Nominal dimensions**
- **Container Optimized Wood Pallet L1106**
  - Type: CA SAP CSE
  - Type no: 86-4525-0108-0-00
  - L: 140 in, W: 72 in, H: 140 in
  - Color: natural wood
  - Net weight: 500 lb
  - Max. payload (dynamic load): 2,000 lb
  - Features: Heat treatment and marked according to IPPC-standard, with certificate according to ISPM No.15.
  - Link to documents: TST N 098 02.01 001, TST N 098 05.01 001
  - Picture: ![L1106](image)

- **Container Optimized Wood Pallet L1110**
  - Type: CA SAP CSE
  - Type no: 86-4525-0110-0-00
  - L: 140 in, W: 98 in, H: 140 in
  - Color: natural wood
  - Net weight: 500 lb
  - Max. payload (dynamic load): 2,000 lb
  - Features: Heat treatment and marked according to IPPC-standard, with certificate according to ISPM No.15.
  - Link to documents: TST N 098 02.01 001, TST N 098 05.01 001
  - Picture: ![L1110](image)

### Additional Information
- **Application area / Region**:
  - Asia: X
  - Europe: X
  - Americas: X
  - South Americas: X

**General requirements**
- Base frame construction: 3-skid pallets
- Underridability: 4-way-entry pallets
- Material: natural wood
- Heat treatment and marked according to IPPC-standard, with certificate according to ISPM No.15.
- VDA recommendation 4525
- For international shipments

**External dimensions**
- **Container Optimized Wood Pallet L1106**
  - L: 1140 mm, W: 720 mm, H: 140 mm
  - Color: natural wood
  - Net weight: 1,100 kg
  - Max. payload (dynamic load): 4,400 kg
  - Features: Heat treatment and marked according to IPPC-standard, with certificate according to ISPM No.15.
  - Link to documents: TST N 098 02.01 001, TST N 098 05.01 001
  - Picture: ![L1106](image)

- **Container Optimized Wood Pallet L1110**
  - L: 1140 mm, W: 980 mm, H: 140 mm
  - Color: natural wood
  - Net weight: 1,100 kg
  - Max. payload (dynamic load): 4,400 kg
  - Features: Heat treatment and marked according to IPPC-standard, with certificate according to ISPM No.15.
  - Link to documents: TST N 098 02.01 001, TST N 098 05.01 001
  - Picture: ![L1110](image)

- **Container Optimized Wood Pallet**
  - L: 1219.2 mm, W: 1143 mm, H: 127 mm
  - Color: natural wood
  - Net weight: 1,100 kg
  - Max. payload (dynamic load): 4,400 kg
  - Features: Heat treatment and marked according to IPPC-standard, with certificate according to ISPM No.15.
  - Link to documents: EN ISO 8611-1
  - Picture: ![Wood Pallet](image)
### Expendable and Returnable Pallet

#### General requirements

- **Base frame construction:**
  - 3-skid pallets
  - 4-way-entry pallets

#### Application area / Region

<table>
<thead>
<tr>
<th>Type</th>
<th>Designation</th>
<th>Type no</th>
<th>CA SAP CSE Packaging part-no</th>
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<th>Max payload, static load</th>
<th>Max payload, in high rack</th>
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<td>1210  810  172</td>
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<td>5.000</td>
<td>400</td>
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<td></td>
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<td></td>
<td></td>
<td>1200  800  150</td>
<td>1210  810  172</td>
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<td></td>
<td>47.2  31.5  5.9</td>
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<td></td>
<td>98-6000-0191-5-00</td>
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<td>1210  810  172</td>
<td>RAL 7012, basalt grey</td>
<td>HD-PE, regranulate</td>
<td>15</td>
<td>1.000</td>
<td>5.000</td>
<td>800</td>
<td>closed-skids design reinforced, nearly closed-top desk construction, circumferentially interrupted locking: height 22mm</td>
<td>TST N 098 02.02 000</td>
<td>Conti Logo and 98-part-no are printed on the pallet</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>47.2  31.5  5.9</td>
<td>47.6  31.9  6.8</td>
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<td>1210  1010  172</td>
<td>RAL 7012, basalt grey</td>
<td>HD-PE, regranulate</td>
<td>18</td>
<td>1.000</td>
<td>5.000</td>
<td>800</td>
<td>closed-skids design reinforced, nearly closed-top desk construction, circumferentially interrupted locking: height 22mm</td>
<td>TST N 098 02.02 000</td>
<td>Conti Logo and 98-part-no are printed on the pallet</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>47.2  39.4  5.9</td>
<td>47.6  39.8  6.8</td>
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</tr>
</tbody>
</table>

#### Features
- DIN EN 13698-1
- The technical construction and details according to DIN EN 13698-1, examination by producer, but "not stamped" according to EPAL.
- No heat treatment and not marked according to IPPC-standard.

#### Link to documents
- TST N 098 02.02 000
<table>
<thead>
<tr>
<th>Type</th>
<th>Designation</th>
<th>Type no</th>
<th>CA SAP CSE Packaging part no</th>
<th>Nominal dimensions</th>
<th>External dimensions</th>
<th>Material</th>
<th>Color</th>
<th>Net weight</th>
<th>Max.payload, static load</th>
<th>Max.payload, dynamic load</th>
<th>Max.payload, max. stack load</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-skid pallet</td>
<td>H1</td>
<td>96-0789-1103-1-00</td>
<td>1200 x 800 x 160</td>
<td>1192 x 798 x 160</td>
<td>47,2 x 31,5 x 6,3</td>
<td>RAL 7012, basalt grey</td>
<td>HD-PE, re-granulate</td>
<td>18</td>
<td>1.000</td>
<td>5.000</td>
<td>166</td>
<td>closed skid design reinforced, open top desk construction</td>
</tr>
<tr>
<td></td>
<td>H1 ESD</td>
<td>96-0789-1103-0-00</td>
<td>1200 x 800 x 160</td>
<td>1192 x 805 x 164</td>
<td>47,2 x 31,5 x 6,3</td>
<td>RAL 9005, deep black</td>
<td>PP-L ESD</td>
<td>20</td>
<td>1.250</td>
<td>5.000</td>
<td>166</td>
<td>open skid design, open top desk construction, circumferentially interrupted locking: height 7mm</td>
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<tr>
<td>Plastics</td>
<td>CR1</td>
<td>96-6000-0287-3-00</td>
<td>1200 x 800 x 160</td>
<td>1192 x 798 x 160</td>
<td>47,2 x 31,5 x 6,3</td>
<td>RAL 7012, basalt grey</td>
<td>HD-PE, re-granulate</td>
<td>21,5</td>
<td>1.750</td>
<td>7.500</td>
<td>166</td>
<td>open skid design, open top desk construction with 3 Metal profiles reinforced, welded anti-slip PE-plates in blue</td>
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<tr>
<td></td>
<td>5039</td>
<td>96-9010-5039-0-00</td>
<td>1219 x 1143 x 127</td>
<td>1219 x 1143 x 127</td>
<td>48,0 x 45,0 x 5,0</td>
<td>Black</td>
<td>HDPE</td>
<td>27</td>
<td>1.814</td>
<td>13.067</td>
<td>166</td>
<td>4 way entry open top desk construction</td>
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### Returnable Bins

<table>
<thead>
<tr>
<th>Designation</th>
<th>Type no</th>
<th>CA SAP CSE Packaging part-no</th>
<th>Nominal dimensions</th>
<th>Outside dimensions</th>
<th>Inside dimensions without cover</th>
<th>Color</th>
<th>Material</th>
<th>Features</th>
<th>Link to documents</th>
<th>Picture</th>
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<tbody>
<tr>
<td>Heavy load bin</td>
<td>98-0385-5000-0-00</td>
<td>1200</td>
<td>800</td>
<td>650</td>
<td>305 (205)</td>
<td>silver</td>
<td>steel, galvanizied</td>
<td>Heavy load bin, collapsible Base frame construction: 4 feeds Underrideability: 4-way-entry Underrideable height: 127mm Stackability factor: static 1+3 / dynamic 1+2 Volume: 374.8 dm³</td>
<td></td>
<td>❌</td>
</tr>
<tr>
<td>Collapsible bin</td>
<td>98-0376-6000-0-00</td>
<td>1200</td>
<td>1000</td>
<td>980</td>
<td>47.244</td>
<td>39.37</td>
<td>38.58</td>
<td>Collapsible, closed walls with 2 loading flaps Base frame construction: 4 feeds Underrideability: 4-way-entry Stackability factor: 1+4</td>
<td></td>
<td>❌</td>
</tr>
<tr>
<td>FLC (foldable large container)</td>
<td>2012</td>
<td>98-9010-2012-0-00</td>
<td>812.8</td>
<td>762</td>
<td>863.6</td>
<td>335.28</td>
<td>1219.2 x 1143.0 x 863.6</td>
<td>Black</td>
<td>HDPE</td>
<td>Heavy load bin, collapsible Base frame construction: 4 feeds Underrideability: 4-way-entry Underrideable height: 327mm Stackability factor: static 1+3 / dynamic 1+2</td>
</tr>
<tr>
<td>FLC (foldable large container)</td>
<td>2015</td>
<td>98-9010-2015-0-00</td>
<td>48</td>
<td>45</td>
<td>34</td>
<td>13.1</td>
<td>46 x 45 x 34</td>
<td>Black</td>
<td>HDPE</td>
<td>Heavy load bin, collapsible Base frame construction: 4 feeds Underrideability: 4-way-entry Underrideable height: 327mm Stackability factor: static 1+3 / dynamic 1+2</td>
</tr>
</tbody>
</table>
### Expendable boxes

<table>
<thead>
<tr>
<th>Designation</th>
<th>Type no</th>
<th>CA SAP CSE Packaging part no</th>
<th>FEFCO CODE</th>
<th>Quality</th>
<th>Width</th>
<th>Height</th>
<th>Stackability</th>
<th>Features</th>
<th>Link to documents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carton</td>
<td>KLT-B2-5710</td>
<td>98-4525-0110-1-00</td>
<td>FEFCO 0000</td>
<td>15</td>
<td>7</td>
<td>8</td>
<td>7,5</td>
<td>1,200</td>
<td></td>
</tr>
<tr>
<td>Carton</td>
<td>KLT-B2-5715</td>
<td>98-4525-0110-1-00</td>
<td>FEFCO 0000</td>
<td>15</td>
<td>7</td>
<td>8</td>
<td>7,5</td>
<td>1,200</td>
<td></td>
</tr>
<tr>
<td>Singel Slip lid</td>
<td>KLT-B2-5710</td>
<td>98-4525-0110-1-00</td>
<td>FEFCO 0450</td>
<td>22</td>
<td>6</td>
<td>23</td>
<td>7,5</td>
<td>1,200</td>
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<tr>
<td>Carton</td>
<td>KLT-B2-3830</td>
<td>98-4525-0110-1-00</td>
<td>FEFCO 0000</td>
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<td>7</td>
<td>8</td>
<td>7,5</td>
<td>1,200</td>
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<tr>
<td>Carton</td>
<td>KLT-B2-3815</td>
<td>98-4525-0110-1-00</td>
<td>FEFCO 0000</td>
<td>15</td>
<td>7</td>
<td>8</td>
<td>7,5</td>
<td>1,200</td>
<td></td>
</tr>
<tr>
<td>Singel Slip lid</td>
<td>KLT-B2-3850</td>
<td>98-4525-0110-1-00</td>
<td>FEFCO 0000</td>
<td>15</td>
<td>7</td>
<td>8</td>
<td>7,5</td>
<td>1,200</td>
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<tr>
<td>Layer slip lid</td>
<td>KLT-B2-3815</td>
<td>98-4525-0110-1-00</td>
<td>FEFCO 0000</td>
<td>15</td>
<td>7</td>
<td>8</td>
<td>7,5</td>
<td>1,200</td>
<td></td>
</tr>
<tr>
<td>GLT Slip Lid/Cover</td>
<td>GLT-SD-1198</td>
<td>98-4525-0110-1-00</td>
<td>FEFCO 0000</td>
<td>15</td>
<td>7</td>
<td>8</td>
<td>7,5</td>
<td>1,200</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- Inside dimension height depending on design of the bottom (see FEFCO codes).
- For bulk goods a closed bottom similar to Felix ET 01 or an additional lip is necessary.
- Cardboard material with three flutes has to be used for all GLT boxes/covers. GLT lids can have two flutes, which are wet strength glued. The external layers (inside-automatic) has to consist of Kraftliner.
### Expendable boxes

<table>
<thead>
<tr>
<th>Designation</th>
<th>Type no</th>
<th>CA SAP CSE Packaging part no</th>
<th>FFP/FEFCO CODE</th>
<th>Quality</th>
<th>Test weight</th>
<th>Max. superimposed load</th>
<th>Max. weight (kg)</th>
<th>Volume (L)</th>
<th>Liters</th>
<th>kg</th>
<th>g</th>
<th>superimposed load of</th>
<th>Features</th>
<th>Link to documents</th>
<th>Picture</th>
</tr>
</thead>
</table>
| GLT folding box    | GLT-R-006L | 1.140  | 966  | 1,025  | 755  | 606  | 1,050  | 726  | 866  | 1.280  | 240 kg  | 1+1 | ≥ 3,5 | GLT-006L | GLT-R-006L | GLT-R-006L | GLT-R-006L
|                    | GLT-R-006L | 1.140  | 966  | 1,025  | 755  | 606  | 1,050  | 726  | 866  | 1.280  | 240 kg  | 1+1 | ≥ 3,5 | GLT-006L | GLT-R-006L | GLT-R-006L | GLT-R-006L
|                    | GLT-R-006L | 1.140  | 966  | 1,025  | 755  | 606  | 1,050  | 726  | 866  | 1.280  | 240 kg  | 1+1 | ≥ 3,5 | GLT-006L | GLT-R-006L | GLT-R-006L | GLT-R-006L
| GLT stacking box    | GLT-R-089L | 1.145  | 966  | 1,025  | 755  | 606  | 1,050  | 726  | 866  | 1.280  | 240 kg  | 1+1 | ≥ 3,5 | GLT-089L | GLT-R-089L | GLT-R-089L | GLT-R-089L
|                    | GLT-R-089L | 1.145  | 966  | 1,025  | 755  | 606  | 1,050  | 726  | 866  | 1.280  | 240 kg  | 1+1 | ≥ 3,5 | GLT-089L | GLT-R-089L | GLT-R-089L | GLT-R-089L
|                    | GLT-R-089L | 1.145  | 966  | 1,025  | 755  | 606  | 1,050  | 726  | 866  | 1.280  | 240 kg  | 1+1 | ≥ 3,5 | GLT-089L | GLT-R-089L | GLT-R-089L | GLT-R-089L
|                        | GLT-R-109L | 1.140  | 966  | 1,125  | 705  | 666  | 1,000  | 705  | 866  | 1.280  | 240 kg  | 1+1 | ≥ 3,5 | GLT-109L | GLT-R-109L | GLT-R-109L | GLT-R-109L
|                        | GLT-R-109L | 1.140  | 966  | 1,125  | 705  | 666  | 1,000  | 705  | 866  | 1.280  | 240 kg  | 1+1 | ≥ 3,5 | GLT-109L | GLT-R-109L | GLT-R-109L | GLT-R-109L
|                        | GLT-R-109L | 1.140  | 966  | 1,125  | 705  | 666  | 1,000  | 705  | 866  | 1.280  | 240 kg  | 1+1 | ≥ 3,5 | GLT-109L | GLT-R-109L | GLT-R-109L | GLT-R-109L

Notes:

1. Loading flap at one long side. 750mm widthwise and a height of 460mm. Dividing slats only 750mm widthwise, not over the complete length of the box. Cutting of the drop door has to be glued with reinforced adhesive tape.
2. Weight includes the flaps and the cardboard material with the stated date (ECT [Edge Crush Resistance],...).
3. Loading units with this height can only stacked 1+1 inside a sea container. Therefore only the superimposed load of one loading unit has to be guaranteed (at all time a safety factor ≥ 3.5 has to be guaranteed).
4. Cardboard material with three flaps has to be used for all GLT boxes/tubes (GLT lids can have two flaps), which are wet strength glued. The external layers (inside-automobile) has to consist of flutedkraft.

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**Expendable boxes**

- **GLT - Light version (L)**
- **GLT-R-006L**
- **GLT-R-089L**
- **GLT-R-109L**

**Loading units with this height can only stacked 1+1 inside a sea container. Therefore only the superimposed load of one loading unit has to be guaranteed (at all time a safety factor ≧ 3.5 has to be guaranteed!)

**Min. Breaking strength (BCT) that has to be archived. Test has to be done with one pallet under the loading unit and one pallet on top! (The values for breaking strength in the table have been archived with the cardboard material with the stated date (ECT [Edge Crush Resistance],...).

**Loading flap at one long side. 750mm widthwise and a height of 460mm. Dividing slats only 750mm widthwise, not over the complete length of the box. Cutting of the drop door has to be glued with reinforced adhesive tape**
### Expendable boxes

<table>
<thead>
<tr>
<th>Designation</th>
<th>Type no</th>
<th>CA SAP CSE Packaging part-no</th>
<th>L</th>
<th>W</th>
<th>H</th>
<th>L</th>
<th>W</th>
<th>H</th>
<th>inside dimensions without cover</th>
<th>FGP CO CODE</th>
<th>FEFCO CODE with loading face</th>
<th>Bursting strength</th>
<th>Min. gross weight</th>
<th>Max. superimposed load</th>
<th>Black edge setting</th>
<th>Features</th>
<th>Link to documents</th>
<th>Picture</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLT - folding box</td>
<td>GLT-RX-0944</td>
<td>36,4 x 261,1 x 44,3</td>
<td>360</td>
<td>616</td>
<td>450</td>
<td>307</td>
<td>289</td>
<td>307</td>
<td>879</td>
<td>1.984,2</td>
<td>127,7</td>
<td>720 kg</td>
<td>1+1</td>
<td>360 kg</td>
<td>900 kg</td>
<td>1+2</td>
<td>TST 2005 06 21 001</td>
<td>X X X X</td>
</tr>
<tr>
<td>GLT - folding box</td>
<td>GLT-RX-0944</td>
<td>36,4 x 261,1 x 44,3</td>
<td>360</td>
<td>616</td>
<td>450</td>
<td>307</td>
<td>289</td>
<td>307</td>
<td>879</td>
<td>1.984,2</td>
<td>127,7</td>
<td>720 kg</td>
<td>1+1</td>
<td>360 kg</td>
<td>900 kg</td>
<td>1+2</td>
<td>TST 2005 06 21 001</td>
<td>X X X X</td>
</tr>
<tr>
<td>GLT - folding box</td>
<td>GLT-RX-0944</td>
<td>36,4 x 261,1 x 44,3</td>
<td>360</td>
<td>616</td>
<td>450</td>
<td>307</td>
<td>289</td>
<td>307</td>
<td>879</td>
<td>1.984,2</td>
<td>127,7</td>
<td>720 kg</td>
<td>1+1</td>
<td>360 kg</td>
<td>900 kg</td>
<td>1+2</td>
<td>TST 2005 06 21 001</td>
<td>X X X X</td>
</tr>
<tr>
<td>GLT - folding box</td>
<td>GLT-RX-0944</td>
<td>36,4 x 261,1 x 44,3</td>
<td>360</td>
<td>616</td>
<td>450</td>
<td>307</td>
<td>289</td>
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<td>879</td>
<td>1.984,2</td>
<td>127,7</td>
<td>720 kg</td>
<td>1+1</td>
<td>360 kg</td>
<td>900 kg</td>
<td>1+2</td>
<td>TST 2005 06 21 001</td>
<td>X X X X</td>
</tr>
<tr>
<td>GLT - folding box</td>
<td>GLT-RX-0944</td>
<td>36,4 x 261,1 x 44,3</td>
<td>360</td>
<td>616</td>
<td>450</td>
<td>307</td>
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<td>879</td>
<td>1.984,2</td>
<td>127,7</td>
<td>720 kg</td>
<td>1+1</td>
<td>360 kg</td>
<td>900 kg</td>
<td>1+2</td>
<td>TST 2005 06 21 001</td>
<td>X X X X</td>
</tr>
<tr>
<td>GLT - folding box</td>
<td>GLT-RX-0944</td>
<td>36,4 x 261,1 x 44,3</td>
<td>360</td>
<td>616</td>
<td>450</td>
<td>307</td>
<td>289</td>
<td>307</td>
<td>879</td>
<td>1.984,2</td>
<td>127,7</td>
<td>720 kg</td>
<td>1+1</td>
<td>360 kg</td>
<td>900 kg</td>
<td>1+2</td>
<td>TST 2005 06 21 001</td>
<td>X X X X</td>
</tr>
</tbody>
</table>

### Notes:

1. Loading flap at one long side, 750mm wide/height and a height of 440mm. Drawing station only 750mm wide/height, not over the complete length of the box. Cutting of the drop door has to be glued with reinforced adhesive tape.
2. Mix: breaking strength (BCT) that has to be archived. Test has to be done with unprinted under the loading unit and one pallet on top (the values for breaking strength in the table have been archived with the cardboard material with the stated date (ECT Edge Crush Resistance) …
3. Loading units with this height can only stack 1+1 inside a sea container. Therefore only the superimposed load of one loading unit has to be guaranteed (at all time a safety factor >/= 3,5 has to be guaranteed).
4. Cardboard material with three flutes has to be used for all GLT boxes/rings. GLT lids can have two flutes; which are wet strength glued. The external layers (inside-outsides) have to consist of Kraftliners.

### FEFCO Codes:

- **FEFCO 0200**: Single fold with 1 fold (max. 2 flaps)
- **FEFCO 0501**: Single fold with 1 fold (max. 2 flaps)

### Dimensions:

- **L**: Length
- **W**: Width
- **H**: Height

### Weight:

- **Single box weight**: The weight of a single box
- **Gross Max. weight / LU**: The maximum gross weight of one loading unit
- **Net Max. weight / LU**: The maximum net weight of one loading unit

### Regions:

- **Europe**: Continental Automotive
- **Asia**: Asia
- **North Americas**: North America
- **South Americas**: South America

### Application areas:

- **TST**: Volkswagen Group Supplier
- **VDA**: Volkswagen Group Supplier
- **TST**: Volkswagen Group Supplier
- **VDA**: Volkswagen Group Supplier
- **TST**: Volkswagen Group Supplier
- **VDA**: Volkswagen Group Supplier
- **TST**: Volkswagen Group Supplier
- **VDA**: Volkswagen Group Supplier
- **TST**: Volkswagen Group Supplier
- **VDA**: Volkswagen Group Supplier
<table>
<thead>
<tr>
<th>Designation</th>
<th>Type no</th>
<th>CA SAP CSE Packaging part-no</th>
<th>L x W x H (mm)</th>
<th>L x W x H (in)</th>
<th>FEPFCO CODE</th>
<th>Quality</th>
<th>BCT of unit</th>
<th>Weight</th>
<th>Canister</th>
<th>Features</th>
<th>Application area / Region</th>
<th>Picture</th>
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<tbody>
<tr>
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<td>241567</td>
<td>SB-9990-0000-7-0-0</td>
<td>610 x 381 x 178</td>
<td>24 x 15</td>
<td>FEPFCO 5301</td>
<td>1-2</td>
<td>Use lid 2415</td>
<td>1+2</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
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<td>610 x 381 x 178</td>
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