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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)

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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

[03]

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.

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

At European level the Directive 1994/62/EC and (EU) 2018/852 "on packaging and packaging waste" obliges to obtain certain quotes for recycling and valorization.

Each Packaging material shall be appropriately identified with the material type. The recycling symbols (alphanumeric 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.

Virgin packaging material (Prescribed by the decision 97/129/EC) (mandatory worldwide)	Plastic recycling symbols Code-abbreviations: 01 PET 02 HDPE 03 PVC 04 LDPE 05 PP 06 PS 07 other plastic	
	Corrugated fibreboard / cardboard / paper Code-abbreviations: PAP 20 Corrugated cardboard / fibreboard 21 Cardboard 22 Paper	

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2.1.3 Alphanumeric codes of the composite/component and recycled packaging material

<p>Component or composite packaging material</p>	<p>Packaging materials are defined as 'composite' or 'component' materials when is "made up of different materials which cannot be separated by hand" and according to the raw material content, the packaging material has to be marked with the environmental code.</p> <p>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).</p>	
<p>Recycled content at packaging material</p>	<p>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 "(REC)". 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 "(REC30)".</p>	

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 .

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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 Recommendation could be find at [VDA official web side](#) [and at WISDOM](#)
VDA 4525 [\(externally\)](#) [\(CA internally\)](#)

- DIN EN 13698 -1 / -2 Flat pallet (-1: 1200x800 mm) (-2: 1200x1000mm) [at WISDOM \(CA internally\)](#)
97/129/EC; DIN 6120;
ISO 1043-1

- GSCC 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
- ISPM No. 15 / IPPC International Standard for Phytosanitary Measures – Regulation of wood packaging material in international trade / International Plant Protection Convention
<https://www.ippc.int/en/>

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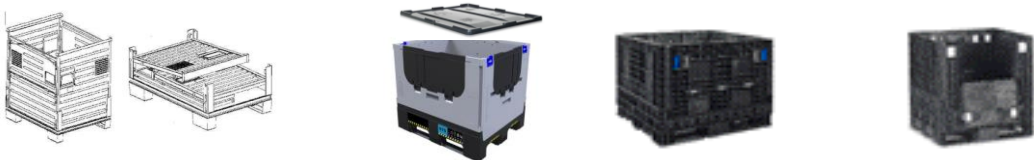
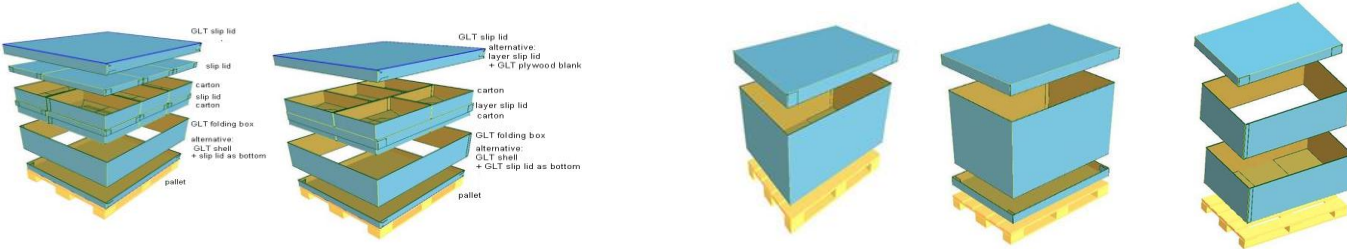
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4 Overview

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<p>[01] Corrugated cardboard boxes</p> <p>(KLT cartons, KLT carton lids, layer slip lids, GLT cartons and lids)</p>	17-20	

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			L	W	H	Actual size			L	W	H									Europe	Asia	North Americas	South Americas					
			mm			mm			mm																			
			in			in			in																			
KLT - non ESD																												
300 x 200 mm																												
VDA - RL - KLT - 3147	3147	98-4500-3147-0-00	300	200	147	296 x 198 x 147,5			243	162	129,5	blue RAL 5005	PP	0,6	20	5,3	smooth bottom, no drainage holes suitable KLT cover D35	VDA 4500 recommendation			X	X	X	X				
			11,81	7,874	5,79	11,65 x 7,79 x 5,81			9,57	6,378	5,10			1,3	44	1,4												
400 x 300 mm																												
VDA - RL - KLT - 4147	4147	98-4500-4147-0-00	400	300	147	396 x 297 x 147,5			345	260	129,5	blue RAL 5005	PP	1,1	20	11,8	smooth bottom, with drainage holes, suitable KLT cover D45	VDA 4500 recommendation			X	X	X	X				
			15,75	11,81	5,79	15,59 x 11,69 x 5,81			13,58	10,24	5,10			2,4	44	3,1												
RL - KLT - 4174 (non VDA recommendation)	4174	98-6000-0296-9-00	400	300	174	396 x 297 x 174			345	260	156	blue RAL 5005	PP	1,2	20	14,2	smooth bottom, with drainage holes suitable KLT cover D45	(non VDA recommendation)			X			X				
			15,75	11,81	6,85	15,59 x 11,69 x 6,85			13,58	10,24	6,14			2,6	44	3,8												
VDA - RL - KLT - 4213	4213	98-4500-4213-0-00	400	300	213	396 x 297 x 213,7			345	260	196	blue RAL 5005	PP	1,4	20	17,9	smooth bottom, with drainage holes, suitable KLT cover D45	VDA 4500 recommendation			X	X	X	X				
			15,75	11,81	8,39	15,59 x 11,69 x 8,41			13,58	10,24	7,72			3,1	44	4,7												
VDA - RL - KLT - 4280	4280	98-4500-4280-0-00	400	300	280	396 x 297 x 280			345	260	262	blue RAL 5005	PP	1,7	20	24,1	smooth bottom, with drainage holes, suitable KLT cover D45	VDA 4500 recommendation			X	X	X	X				
			15,75	11,81	11,02	15,59 x 11,69 x 11,02			13,58	10,24	10,31			3,7	44	6,4												
600 x 400 mm																												
VDA - RL - KLT - 6147	6147	98-4500-6147-0-00	600	400	147	594 x 396 x 147,5			544	359	129,5	blue RAL 5005	PP	1,8	20	25,0	smooth bottom, with drainage holes, suitable KLT cover D65	VDA 4500 recommendation			X	X	X	X				
			23,62	15,75	5,79	23,38 x 11,69 x 5,81			21,42	14,13	5,10			4,0	44	6,6												
RL - KLT - 6174 (non VDA recommendation)	6174	-	600	400	174	594 x 396 x 174			544	359	156	blue RAL 5005	PP	2,0	20	30,4	smooth bottom, with drainage holes, suitable KLT cover D65	(non VDA recommendation)			X			X				
			23,62	15,75	6,85	23,38 x 11,69 x 6,85			21,42	14,13	6,14			4,4	44	8,0												
VDA - RL - KLT - 6213	6213	98-4500-6213-0-00	600	400	213	594 x 396 x 213,7			544	359	196,0	blue RAL 5005	PP	2,3	20	38,9	smooth bottom, with drainage holes, suitable KLT cover D65	VDA 4500 recommendation			X	X	X	X				
			23,62	15,75	8,39	23,38 x 11,69 x 8,41			21,42	14,13	7,72			5,1	44	10,2												
VDA - RL - KLT - 6280	6280	98-4500-6280-0-00	600	400	280	594 x 396 x 280			544	359	262,0	blue RAL 5005	PP	2,7	20	51,9	smooth bottom, with drainage holes, suitable KLT cover D65	VDA 4500 recommendation			X	X	X	X				
			23,62	15,75	11,02	23,38 x 11,69 x 11,02			21,42	14,13	10,31			5,9	44	13,7												

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Designation	Type no	CA SAP CSE Packging part-no	Nominal dimensions			Outside dimensions			Inside dimensions without cover			Color	Material	Net weight	Payload	Volume	Features	Link to documents	Picture	Application area / Region			
			L	W	H	Actual size			L	W	H									Europe	Asia	North Americas	South Americas
			mm			mm			mm														
			in			in			in														
Tote Straight Wall	0393-5	98-6000-0393-5-00	609,6	381	241,3	609.6 x 381 x 241.3			543,5	330,2	218,4	Grey RAL 7046	HDPE	1,9	15,89	39,64	Straight Wall non ESD KLT						X
			24,0	15,0	9,5	24 x 15 x 9.5			21,4	13,0	8,6			4,4	35,0	10,47							
Tote Straight Wall	0393-4	98-6000-0393-4-00	609,6	381	190,5	609.6 x 381 x 190.5			543,5	330,2	172,2	Grey RAL 7046	HDPE	1,6	15,89	31,10	Straight Wall non ESD KLT						X
			24,0	15,0	7,5	24 x 15 x 7.5			21,4	13,0	6,8			3,6	35,0	8,22							
Tote Straight Wall	0393-6	98-6000-0393-6-00	609,6	558,8	241,3	609.6 x 558.8 x 241.3			543,5	520,7	172,2	Grey RAL 7046	HDPE	2,4	15,89	59,46	Straight Wall non ESD KLT				X		
			24,0	22,0	9,5	24 x 22 x 9.5			21,4	20,5	8,6			5,3	35,0	15,70							
Tote Straight Wall	0393-7	98-6000-0393-7-00	609,6	558,8	279,4	609.6 x 558.8 x 279.4			543,5	520,7	264,1	Grey RAL 7046	HDPE	2,8	15,89	73,60	Straight Wall non ESD KLT				X		
			24,0	22,0	11,0	24 x 22 x 11			21,4	20,5	10,4			6,3	35,0	19,40							
KLT with attached lid - non ESD																							
Tote with Attached Lid	1001	98-9010-1001-0-00	304,8	279,4	228,6	299,7 x 276,8 x 187,9			203,2	213,3	139,7	Grey RAL 7046	HDPE	1,4	20,0	0,8	Attached Lid non ESD KLT					X	
			12	11	9	11.8 x 10.9 x 7.4			8,0	8,4	5,5			3,0	45,0	0,20							
Tote with Attached Lid	1002	98-9010-1002-0-00	609,6	381	228,6	596,9 x 383,54 x 228,6			467,4	330,2	203,2	Grey RAL 7046	HDPE	2,6	54,0	19,80	Attached Lid non ESD KLT						X
			24,0	15,0	9,0	23.5 x 15.1 x 9			18,4	13,0	8,0			5,8	120,0	5,23							
F-KLT (foldable)																							
VDA F-KLT 6410	6410	98-4500-6410-0-00	600	400	280 (94,5)				535	357	257	blue RAL 5012	PP	3,4	20	46,0	composite base, stacking feet and stacking grooves, no drainage holes suitable KLT cover D65	VDA 4500 recommendation		X	X		X
			23,62	15,74	11,02 (3,72)				21,06	14,06	10,12			7,48	44	12,15							

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			L	W	H	Actual size			L	W	H									Europe	Asia	North Americas	South Americas				
			mm			mm			mm																		
			in			in			in																		
KLT - ESD																											
300 x 200 mm																											
VDA - RL - KLT ESD - 3115	3115	98-4500-3115-0-00	300	200	147	296 x 198 x 147,5	243	162	129,5	black	PPL	0,6	20	5,3	smooth bottom, no drainage holes suitable KLT cover D31					X	X	X	X				
			11,81	7,874	5,79	11,65 x 7,79 x 5,81	9,57	6,378	5,10			1,3	44	1,4													
400 x 300 mm																											
VDA - RL - KLT ESD - 4047	4047	98-4500-4047-0-00	400	300	147	396 x 297 x 147,5	345	260	129,5	black	PPL	1,2	20	11,8	smooth bottom, no drainage holes suitable KLT cover D41					X	X	X	X				
			15,75	11,81	5,79	15,59 x 11,69 x 5,81	13,58	10,24	5,10			2,64	44	3,1													
RL - KLT ESD - 4074	4074	98-4500-4174-0-00	400	300	174	396 x 297 x 174	345	260	156	black	PPL	1,5	20	13,2	smooth bottom, no drainage holes suitable KLT cover D41					X		X					
			15,75	11,81	6,85	15,59 x 11,69 x 6,85	13,58	10,24	6,14			3,3	44	3,5													
VDA - RL - KLT ESD - 4013	4013	98-4500-4013-0-00	400	300	213	396 x 297 x 213,7	345	260	196	black	PPL	1,5	20	17,9	smooth bottom, no drainage holes suitable KLT cover D41					X	X	X	X				
			15,75	11,81	8,39	15,59 x 11,69 x 8,41	13,58	10,24	7,72			3,3	44	4,7													
VDA - RL - KLT ESD - 4080	4080	98-4500-4080-0-00	400	300	280	396 x 297 x 280	345	260	262	black	PPL	1,9	20	24,1	smooth bottom, no drainage holes suitable KLT cover D41					X	X	X	X				
			15,75	11,81	11,02	15,59 x 11,69 x 11,02	13,58	10,24	10,31			4,2	44	6,4													
600 x 400 mm																											
VDA - RL - KLT ESD - 6047	6047	98-4500-6047-0-00	600	400	147	594 x 396 x 147,5	544	359	129,5	black	PPL	2,0	20	25,0	smooth bottom, no drainage holes suitable KLT cover D61					X	X	X	X				
			23,62	15,75	5,79	23,38 x 11,69 x 5,81	21,42	14,13	5,10			4,4	44	6,6													
RL - KLT ESD - 6074	6074	98-4500-6174-0-00	600	400	174	594 x 396 x 174	544	359	156	black	PPL	2,0	20	30,4	smooth bottom, no drainage holes suitable KLT cover D61					X		X					
			23,62	15,75	6,85	23,38 x 11,69 x 6,85	21,42	14,13	6,14			4,4	44	8,0													
VDA - RL - KLT ESD - 6013	6013	98-4500-6013-0-00	600	400	213	594 x 396 x 213,7	544	359	195	black	PPL	2,5	20	38,9	smooth bottom, no drainage holes suitable KLT cover D61					X	X	X	X				
			23,62	15,75	8,39	23,38 x 11,69 x 8,41	21,42	14,13	7,72			5,5	44	10,3													
VDA - RL - KLT ESD - 6080	6080	98-4500-6080-0-00	600	400	280	594 x 396 x 280	544	359	262	black	PPL	3,0	20	51,9	smooth bottom, no drainage holes suitable KLT cover D61					X	X	X	X				
			23,62	15,75	11,02	23,38 x 11,69 x 11,02	21,42	14,13	10,31			6,6	44	13,7													

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Covers

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			L	W	H	Actual size								Europe	Asia	North Americas	South Americas		
			mm		mm														
R-/ RL KLT Covers																			
300 x 200 mm																			
VDA KLT cover D35	D35	98-4500-3235-0-00	300	200		297 x 198		blue, RAL 5003 (R-KLT), RAL 5005 (RL-KLT)	PP	0,09	compatible for VDA R-KLT and RL-KLT 300x200, sealable	new VDA 4500 recommendation (since Oct 2011)		X	X			X	
			11,81	7,874		11,69 x 7,79				0,198									
KLT cover D39	D39	98-4500-3215-1-00	300	200		297 x 198		blue, RAL 5003 (R-KLT), RAL 5005 (RL-KLT)	PP	0,09	compatible for VDA R-KLT and RL-KLT 300x200, sealable	old VDA 4500 recommendation (till Sep 2011)		X					
			11,81	7,874		11,69 x 7,79				0,198									
400 x 300 mm																			
VDA KLT cover D45	D45	98-4500-4345-0-00	400	300		396 x 297		blue, RAL 5003 (R-KLT), RAL 5005 (RL-KLT)	PP	0,27	compatible for VDA R-KLT and RL-KLT 400x300, sealable	new VDA 4500 recommendation (since Oct 2011)		X	X				X
			15,75	11,81		15,59 x 11,69				0,594									
KLT cover D49	D49	98-4500-4349-0-00	400	300		396 x 297		blue, RAL 5003 (R-KLT), RAL 5005 (RL-KLT)	PP	0,25	compatible for VDA R-KLT and RL-KLT 400x300, sealable	old VDA 4500 recommendation (till Sep 2011)		X					
			15,75	11,81		15,59 x 11,69				0,55									
cover D49 without ribs	D49 *	98-4500-4329-2-00	400	300				blue, RAL 5003 (R-KLT), RAL 5005 (RL-KLT)	PP	0,48	compatible for VDA R-KLT and RL-KLT 400x300, sealable	(no VDA recommendation)		X					X
			15,75	11,81						1,056									
600 x 400 mm																			
VDA KLT cover D65	D65	98-4500-6465-0-00	600	400		594 x 396		blue, RAL 5003 (R-KLT), RAL 5005 (RL-KLT)	PP	0,67	compatible for VDA R-KLT and RL-KLT 600x400, sealable	new VDA 4500 recommendation (since Oct 2011)		X	X				X
			23,62	15,75		23,38 x 11,59				1,474									

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Covers

Designation	Type no	CA SAP CSE Packaging part-no	Nominal dimensions			Outside dimensions		Color	Material	Net weight	Features	Link to documents	Picture	Application area / Region				
			L	W	H	Actual size								Europe	Asia	North Americas	South Americas	
			mm		mm													
						in		kg										
						in		lb										
KLT cover D69	D 69	98-4500-6469-0-00	600	400		594 x 396		blue, RAL 5003 (R-KLT), RAL 5005 (RL-KLT)	PP	0,52	compatible for VDA R-KLT and RL-KLT 600x400, sealable	old VDA 4500 recommendation (till Sep 2011)		X				
			23,62	15,75		23,38 x 11,59				1,144								
cover D69 without ribs	D69 *	98-4500-6415-1-00	600	400				blue, RAL 5003 (R-KLT), RAL 5005 (RL-KLT)	PP	0,7	compatible for VDA R-KLT and RL-KLT 600x400, sealable	(no VDA recommendation)		X				X
			23,62	15,75						1,54								
ESD R-/RL KLT Covers																		
300 x 400 mm																		
VDA ESD KLT-D 31 ESD	D 31	98-4500-3231-0-00	300	200		297 x 198		black	PPL	0,1	compatible for VDA ESD R- KLT and RL-KLT 300x200, sealable	VDA 4504 recommendation		X	X			X
			11,81	7,874		11,69 x 7,79				0,22								
400 x 300 mm																		
VDA ESD KLT-D 41 ESD	D 41	98-6000-0030-6-00	400	300		396 x 297		black	PPL	0,3	compatible for VDA ESD R- KLT and RL-KLT 400x300, sealable	new VDA 4504 recommendation (since Oct 2011)		X	X			X
			15,75	11,81		15,59 x 11,69				0,66								
VDA ESD KLT-D 41 ESD	D 41	98-4500-4341-0-00	400	300		396 x 297		black	PPL	0,3	compatible for VDA ESD R- KLT and RL-KLT 400x300, sealable	old VDA 4504 recommendation (till Sep 2011)		X	X			X
			15,75	11,81		15,59 x 11,69				0,66								
ESD cover D41 without ribs	D 41 *	98-4500-4329-9-00	400	300				black	PPL	0,48	compatible for VDA R-KLT and RL-KLT 400x300, sealable	(no VDA recommendation)		X	X			X
			15,75	11,81						1,056								

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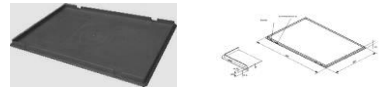


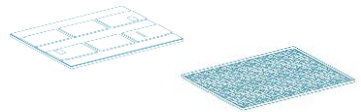
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Covers

Designation	Type no	CA SAP CSE Packging part-no	Nominal dimensions			Outside dimensions		Color	Material	Net weight	Features	Link to documents	Picture	Application area / Region			
			L	W	H	Actual size								Europe	Asia	North Americas	South Americas
			mm	mm	mm	mm	in										
600 x 400 mm																	
VDA ESD KLT-D 61 ESD	D 61	98-6000-0030-4-00	600	400		594 x 396		black	PPL	0,75	compatible for VDA ESD R-KLT and RL-KLT 600x400, sealable	new VDA 4504 recommendation (since Oct 2011)		X	X		X
			23,62	15,75		23,38 x 11,59				1,65							
VDA ESD KLT-D 61 ESD	D 61	98-4500-6461-0-00	600	400		594 x 396		black	PPL	0,75	compatible for VDA ESD R-KLT and RL-KLT 600x400, sealable	old VDA 4504 recommendation (till Sep 2011)		X	X		X
			23,62	15,75		23,38 x 11,59				1,65							
ESD cover D61 without ribs	D 61 *	98-4500-6430-1-00	600	400				black	PPL	0,7	compatible for VDA R-KLT and RL-KLT 400x300, sealable	(no VDA recommendation)		X	X		X
			23,62	15,75						1,54							
Cover Plates - non ESD																	
1200 x 800 mm																	
A 1208 KLT cover plate	A 1208	98-4500-1208-0-00	1200	800				blue, RAL 5012	PP	6,1	for loading units for all VDA KLT-types	VDA 4500 recommendation (till Sep 2014)		X	X		X
			47,24	31,5						13,42							
A 1208-1 KLT cover plate	A 1208-1	-	1200	800				blue, RAL 5012	PP	5,15	for loading units for all VDA KLT-types	VDA 4500 recommendation (since Oct 2012)		X	X		X
			47,24	31,5						11,22							
1200 x 1000 mm																	
A 1210 KLT cover plate	A 1210	-	1200	1000				blue, RAL 5012	PP	9,35	for loading units for all VDA KLT-types	VDA 4500 recommendation (till Sep 2014)		X	X		X
			47,24	39,37						20,57							

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Covers

Designation	Type no	CA SAP CSE Packging part-no	Nominal dimensions			Outside dimensions		Color	Material	Net weight	Features	Link to documents	Picture	Application area / Region				
			L	W	H	Actual size								Europe	Asia	North Americas	South Americas	
			mm	mm	mm	mm	in											
1219 x 1143 mm																		
Cover with Locking Provisions	7072	98-9010-7032-0-00	1219	1143	50,8	1219 x 1143 x 50,8		Black	PPL	8,1	General cover plate Locking features for double stacking	non ESD cover plate						X
			48	45	2	48 x 45 x 02				18								
Cover Plates - ESD																		
1200 x 800 mm																		
A 1208 ESD KLT cover plate	A 1208 ESD	98-4500-1208-6-00	1200	800				black	PP-EL	6,1	for loading units for all VDA KLT-types (ESD)	VDA 4504 recommendation (till Sep 2014)		X	X			X
			47,24	31,5						13,42								
A 1208-1 ESD KLT cover plate	A 1208-1 ESD	98-6000-0203-0-00	1200	800				black	PP-EL	5,75	for loading units for all VDA KLT-types (ESD)	VDA 4504 recommendation (since Oct 2012)		X	X			X
			47,24	31,5						12,65								
1200 x 1000 mm																		
A 1210 ESD KLT cover plate	A 1210 ESD	-	1200	1000				black	PP-EL	10,44	for loading units for all VDA KLT-types (ESD)	VDA 4504 recommendation (since Oct 2012)		X	X			X
			47,24	39,37						22,968								

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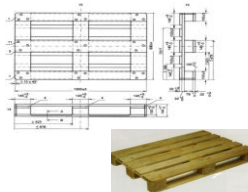
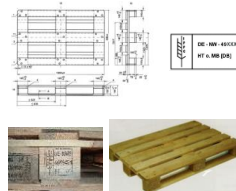
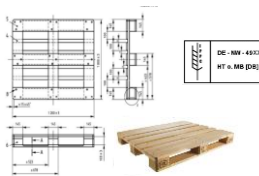
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Expendable and Returnable Pallet

General requirements
Base frame construction: 3-skid pallets
Underrideability: 4-way-entry pallets

Type	Designation	Type no	CA SAP CSE Packaging part-no	Nominal dimensions			External dimensions			Color	Material	Net weight	Max.payload, dynamic load	Max.payload, static load	Max.payload, in high rack	Features	Link to documents	Picture	Application area / Region			
				L	W	H	L	W	H										Europe	Asia	North Americas	South Americas
				mm in			mm in												kg lb			
Wood	Euro flat pallet		98-0701-0000-0-00	1200	800	144	1200	800	144	natural	wood	25	1.000	5.500	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 For shipments inside of EU	DIN EN 13698-1		X	X		X	
				47,2	31,5	5,7	47,2	31,5	5,7	55		2.200	12.100									
	Export flat pallet		98-0701-0000-1-00	1200	800	144	1200	800	144	natural	wood	25	1.000	5.500	The technical construction and details according to DIN EN 13698-1, examination by producer, but "not stamped" according to EPAL, Heat treatment and marked according to IPPC-standard, with certificate according to ISPM No.15. For international / oversea shipments	DIN EN 13698-1		X	X	X	X	
				47,2	31,5	5,7	47,2	31,5	5,7	55		2.200	12.100									
	Industry pallet		98-0289-0000-1-00	1200	1000	144	1200	1000	144	natural	wood	25	1.500	4.500	The technical construction and details according to DIN EN 13698-2, examination by producer, but "not stamped" according to EPAL, Heat treatment and marked according to IPPC-standard, with certificate according to ISPM No.15. For international shipments	DIN EN 13698-2		X	X		X	
				47,2	39,4	5,7	47,2	39,4	5,7	55		3.300	9.900									

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Expendable and Returnable Pallet

General requirements
Base frame construction: 3-skid pallets
Underrideability: 4-way-entry pallets

Type	Designation	Type no	CA SAP CSE Packging part-no	Nominal dimensions			External dimensions			Color	Material	Net weight	Max.payload, dynamic load	Max.payload, static load	Max.payload, in high rack	Features	Link to documents	Picture	Application area / Region			
				L	W	H	L	W	H										Europe	Asia	North Americas	South Americas
				mm in			mm in												kg lb			
Wood	Container Optimized Wood Pallet L1108	L1108	98-4525-0108-0-00	1140	790	140	1140	790	140	natural	wood	500	2.000	500	Heat treatment and marked according to IPPC-standard, with certificate according to ISPM No.15. VDA recommendation 4525 For international shipments	TST N 098 02.01 001 TST N 098 05.01 001 VDA 4525		X	X	X	X	
				44,9	31,1	5,5	44,9	31,1	5,5									1.100,0	4.400	1.100		
	Container Optimized Wood Pallet L1110	L1110	98-4525-0110-0-00	1140	980	140	1140	980	140	natural	wood	500	2.000	500	Heat treatment and marked according to IPPC-standard, with certificate according to ISPM No.15. VDA recommendation 4525 For international shipments	TST N 098 02.01 001 TST N 098 05.01 001 VDA 4525		X	X	X	X	
				44,9	38,6	5,5	44,9	38,6	5,5									1.100,0	4.400	1.100		
	Container Optimized Wood Pallet				1219,2	1143	127	1219,2	1143	127	natural	wood	499	1.995	499	Heat treatment and marked according to IPPC-standard, with certificate according to ISPM No.15. For international shipments	EN ISO 8611-1				X	
					48,0	45,0	5,0	48,0	45,0	5,0									1.100,0	4.400	1.100	

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Expendable and Returnable Pallet

General requirements
Base frame construction: 3-skid pallets
Underrideability: 4-way-entry pallets

Type	Designation	Type no	CA SAP CSE Packaging part-no	Nominal dimensions			External dimensions			Color	Material	Net weight	Max.payload, dynamic load	Max.payload, static load	Max.payload, in high rack	Features	Link to documents	Picture	Application area / Region			
				L	W	H	L	W	H										Europe	Asia	North Americas	South Americas
				mm in			mm in															

Light version

Plastics	Plastic-Light-Pallet D1	D1	98-0348-1285-0-00	1200	800	150	1210	810	172	RAL 7012, basalt grey	HP-PE regranulate	12	1.000	5.000	400	open skid design, open top desk construction circumferentially interrupted locking: height 22mm Conti Logo and 98.-part-no are printed on the pallet	TST N 098 02.02 000		X			
				47,2	31,5	5,9	47,6	31,9	6,8			26,4	2.200	11.000	880							
	Plastic-Light-Pallet CS1	CS1	98-6000-0191-5-00	1200	800	150	1210	810	172	RAL 7012, basalt grey	HD-PE, regranulate	15	1.000	5.000	800	closed skids design reinforced, nearly closed top desk construction circumferentially interrupted locking: height 22mm Conti Logo and 98.-part-no are printed on the pallet	TST N 098 02.02 000		X			
				47,2	31,5	5,9	47,6	31,9	6,8			33,0	2.200	11.000	1.760							
	Plastic-Light-Pallet CS3	CS3	98-6000-0351-5-00	1200	1000	150	1210	1010	172	RAL 7012, basalt grey	HD-PE, regranulate	18	1.000	5.000	800	closed skids design reinforced, nearly closed top desk construction circumferentially interrupted locking: height 22mm Conti Logo and 98.-part-no are printed on the pallet	TST N 098 02.02 000		X			
				47,2	39,4	5,9	47,6	39,8	6,8			39,6	2.200	11.000	1.760							

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Expendable and Returnable Pallet

General requirements
Base frame construction: 3-skid pallets
Underrideability: 4-way-entry pallets

Type	Designation	Type no	CA SAP CSE Packaging part-no	Nominal dimensions			External dimensions			Color	Material	Net weight	Max.payload, dynamic load	Max.payload, static load	Max.payload, in high rack	Features	Link to documents	Picture	Application area / Region			
				L	W	H	L	W	H										Europe	Asia	North Americas	South Americas
				mm in			mm in															
Plastics	Plastic-Heavy-Pallet H1	H1	98-0789-1103-1-00	1200	800	160	1192	798	166	RAL 7012, basalt grey	HD-PE, re- granulate	18	1.000	5.000	850	closed skid design reinforced, open top desk construction circumferentially interrupted locking: height 7mm Conti Logo and 98.-part-no are printed on the pallet	TST N 098 02.02 000		X			
				47,2	31,5	6,3	46,9	31,4	6,7			39,6	2.200	11.000	1.870							
	Plastic-Heavy-Pallet H1 ESD	H1 ESD	98-0789-1103-0-00	1200	800	160	1192	805	164	RAL 9005 deep black	PP-L ESD	20	1.250	5.000	1.000	open skid design, open top desk construction, circumferentially interrupted locking: height 7mm Conti Logo and 98.-part-no are printed on the pallet	TST N 098 02.02 000		X			
				47,2	31,5	6,3	46,9	31,7	6,5			44,0	2.750	11.000	2.200							
Plastic-Extra-Heavy- Pallet CR1	CR1	98-6000-0287-3-00	1200	800	160	1192	798	166	RAL 7012 basalt grey and blue	HD-PE, re- granulate	21,5	1.750	7.500	1.750	open skid design, open top desk construction with 3 Metal profiles reinforced, welded anti-slip PE-plates in blue Conti Logo and 98.-part-no are printed on the pallet	TST N 098 02.02 000		X				
			47,2	31,5	6,3	46,9	31,4	6,5			47,3	3.850	16.500	3.850								
Pallet Plastic 4 way entry - 5039	5039	98-9010-5039-0-00	1219	1143	127	1219	1143	127	Black	HDPE	27	1.814	13.607	1.814	4 way entry open top desk construction						X	
			48,0	45,0	5,0	48,0	45,0	5,0			59,0	4.000,0	30.000,0	4.000								

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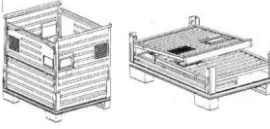



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Returnable Bins

Designation	Type no	CA SAP CSE Packaging part-no	Nominal dimensions				foldable height (mm)	Outside dimensions			Inside dimensions without cover			Color	Material	Features			Link to documents	Picture	Application area / Region			
			L	W	H	h		Actual size			L	W	H			Net weight	Payload	Volume			Europe	Asia	North Americas	South Americas
			mm					mm			mm													
			in					in			in					lb	gal							
Heavy load bin		98-0385-5000-0-00	1200	800	650	305 (265)		1.106	706	480	silver	steel, galvanized	84	1.500	374	Heavy load bin, collapsible Base frame construction: 4 feeds Underrideability: 4-way-entry underrideable height : 100mm stackability factor: static 1+6 / dynamic 1+3 volumen: 374,8 dm³			X					
			47,2	31,5	25,6	12 (10,4)		43,5	27,8	18,9			184,8	3.300	98,7									
Collapsible bin		98-0376-6000-0-00	1200	1000	980						silver	steel, galvanized	88	500		collapsible, closed walls with 2 loading flaps Base frame construction: 4 feeds Underrideability: 4-way-entry Stackability factor: 1+4			X					
			47,244	39,37	38,58								193,6	1.100										
FLC (foldable large container) Magnum Optimum		--	1200	1000	975	325		1.140	940	790		PP	51	750	846	closed walls with loading flaps Base frame construction: 3 skids Underrideability: 4-way-entry max. static stacking load 3200kg max dynamic stacking load 1600kg => stackability factor 1+1 max static stacking high folded 20 pcs max dynamic stacking high folded 10 pcs			X					
			47,244	39,37	38,39	12,8		44,9	37,0	31,1			112,2	1.650	223,4									
FLC (foldable large container)	2012	98-9010-2012-0-00	812,8	762	863,6	335,28	812,8 x 762 x 863,6	741,68	693,42	741,68	Black	HDPE	36,74	907,18	356,79	Heavy load bin, collapsible Base frame construction: 4 feeds Underrideability: 4-way-entry underrideable height : 127mm stackability factor: static 1+3 / dynamic 1+2					X			
			32	30	34	13,2	32 x 30 x 34	29,2	27,3	29,2			81	2.000	94									
FLC (foldable large container)	2015	98-9010-2015-0-00	1219,2	1143,0	863,6	332,7	1219,2 x 1143,0 x 863,6	1117,6	1066,8	698,5	Black	HDPE	61,68	793,78	829,68	Heavy load bin, collapsible Base frame construction: 4 feeds Underrideability: 4-way-entry underrideable height : 127mm stackability factor: static 1+3 / dynamic 1+2					X			
			48	45	34	13,1	48 x 45 x 34	44,3	41,5	27,5			136	1.750	219,17									

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Expendable boxes

Designation	Type no	CA SAP CSE Packaging part-no	nominal dimensions			outside dimension			inside dimensions without cover			FEFCO CODE <small>Even chosen design of Feeco Code has to be checked regarding applicability for chosen application. Recommended design variants should facilitate selection.</small>	Quality ⁹⁾						Net weight	Volume	Max. gross weight / single box	Max. gross weight / LU	Max. superimposed load / LU, dyn.	Stack- ability	Features	Link to documents	Picture	Application area / Region						
			L	W	H	L	W	H	L	W	H		BCT of loading unit <small>(230/350)</small>	= thickness of cardboard	ECT	Puncture resistance	Bursting strength	Wet bursting strength										Europe	Asia	North Americas	South Americas			
			mm	mm	mm	mm	mm	mm	mm	mm	mm		[N]	mm	[kN/m]	[J]	[kPa]	[kPa]										kg	Liter	kg	kg			
			in	in	in	in	in	in	in	in	in			in	[lbs/in]		lb/ft ²	lb/ft ²										lb	gal	lb	lb			
Corrugates cardboard boxes (KLT carton) and the appropriate single slip lids																																		
Carton	KLT-B2-5730		540	360	293	533	357	291	519	343	277 *	FEFCO 0200 FEFCO 0200 with slot snap lock bottom	7	8	7,5	1.350	15	Depending on the used corrugated cardboard boxes (GLT), KLT carons don't carry any weight during stacking!	TST N098 05.01 001 VDA 4525		X	X	X	X										
Carton	KLT-B2-5715		540	360	146		144			130 *	10,9									0,27	45,7	195,8	2,2		X	X	X	X						
Single Slip lid, 1 flute	KLT-B2-57SD		60	540	360	60	534	357	58	FEFCO 0450 FEFCO 0453	1,5									5,5	4,5	1.350		single cover/lid for carton KLT-B2-5730 and KLT-B2-5715		X	X	X	X					
			21,2	14,2	2,4	21,2	14,2	2,4	21	14,1	2,3	0,06	31,4	195,8																				
Carton	KLT-B2-3830		360	270	293	353	267	291	339	253	277 * (281 *)	FEFCO 0200 FEFCO 0200 with slot snap lock bottom FEFCO 0700 ⁹⁾	7	5	8	7,5	1.350	15	Depending on the used corrugated cardboard boxes (GLT), KLT carons don't carry any weight during stacking!	TST N098 05.01 001 VDA 4525		X	X	X	X									
Carton	KLT-B2-3815		360	270	146		144			130 * (134 *)	10,9										0,27	45,7	195,8	2,2		X	X	X	X					
Single Slip lid, 1 flute	KLT-B2-38SD		60	360	270	60	354	267	58	FEFCO 0450 FEFCO 0453	1,5										5,5	4,5	1.350		single cover/lid for carton KLT-B2-3830 and KLT-B2-3815		X	X	X	X				
			14,2	10,6	2,4	14,2	10,6	2,4	13,9	10,5	2,3	0,06	31,4	195,8																				
Carton	KLT-B2-2815		270	180	146	263	177	144	253	167	134 *	FEFCO 0200 FEFCO 0700 ⁹⁾	5	8	7,5	1.350	15	Depending on the used corrugated cardboard boxes (GLT), KLT carons don't carry any weight during stacking!	TST N098 05.01 001 VDA 4525		X	X	X	X										
Single Slip lid, 1 flute	KLT-B2-28SD		60	270	180	60	264	177	58	FEFCO 0450 FEFCO 0453	1,5									5,5	4,5	1.350		single cover/lid for carton KLT-B2-2815		X	X	X	X					
			10,6	7,1	2,4	10,6	7,1	2,4	10,4	7	2,3									0,06	31,4	195,8												
Layer Slip Lid <small>Layer slip lids for one layer of several corrugates cardboard boxes (KLT carton)</small>																																		
Layer slip lid, 1 flute	KLT-B2-LD1108		1.140	790	31	60	1.076	29	62	1.073	28	FEFCO 0451 FEFCO 0452	1,5	5,5	4,5	1.350	Depending on the used corrugated cardboard boxes (GLT), KLT carons don't carry any weight during stacking!	TST N098 05.01 001 VDA 4525	Layer slip lid unsabel for all types of corrugates card- boards boxes (KLT cartons): KLT-B2-5730 KLT-B2-5715 KLT-B2-3830 KLT-B2-3815 KLT-B2-2815		X	X	X	X										
Layer slip lid, 1 flute	KLT-B2-LD1110		980			904				898	44,9									38,6	2,4	42,4	35,6	2,4	42,2	35,4	2,4	0,06	31,4	195,8				
			44,9	38,6	2,4	42,4	35,6	2,4	42,2	35,4	2,4									0,06	31,4	195,8												
GLT Slip Lid / Cover <small>* GLT = large load carriers</small>																																		
GLT cover LT 1108	GLT-SD-1108	98-4525-0108-1-00	1.140	790	31	80	1.140	31	87	1.128	30	FEFCO code 0310 FEFCO code 0312 FEFCO code 0314	7	14	15	800	Usable for all LUs with KLT cartons and GLT cartons (light or heavy version)	TST N098 05.01 001 VDA 4525		X	X	X	X											
GLT cover LT 1110	GLT-SD-1110	98-4525-0110-1-00	980			980				955	44,9								38,6	3,2	44,9	38,6	3,4	44,4	37,6	3,2	0,27	80	116					
			44,9	38,6	3,2	44,9	38,6	3,4	44,4	37,6	3,2								0,27	80	116													

* Inside dimension height depending on design of the bottom (see fecco code)
⁹⁾ For bulk goods a closed bottom similar to fecco 0701 or an additional inlay is advisable.
⁹⁾ 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+outside) has to consist of Kraftliners.

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Expendable boxes

Designation	Type no	CA SAP CSE Packing part-no	nominal dimensions			outside dimension			inside dimensions without cover			FEFCO CODE <small>Even chosen design of FeFCo Code has to be checked regarding applicability for chosen application. Recommended design variants should facilitate selection.</small>	Quality ²⁾							Net weight	Volume	Max. gross weight / single box	Max. gross weight / LU	Max. superimposed load / LU, dyn.	Stack- ability	Features	Link to documents	Picture	Application area / Region										
			L	W	H	L	W	H	L	W	H		BCT of loading unit <small>(230/350x)</small>	= thickness of cardboard	ECT	Puncture resistance	Bursting strength	Wet bursting strength	Europe										Asia	North Americas	South Americas								
			mm in	mm in	mm in	mm in	mm in	mm in	mm in	mm in	mm in		[N]	mm in	[kN/m]	[J]	[kPa]	[kPa]	kg lb										Liter gal	kg lb	kg lb								
Corrugates cardboard boxes (GLT* carton) ³⁾ * GLT = large load carriers																																							
GLT - Light version (L)																																							
1140 x 790 mm																																							
GLT folding box	GLT-FK-089L			900 35,4			909 35,8		879+ 34,6+	FEFCO 0200 with loading flaps ²⁾	16.800 ³⁾	12,5	18	22														240 kg ⁴⁾	1+1	TST N098 05.01 001 VDA 4525		X	X	X	X				
	GLT-FK-086L	1.140	790	600 23,6	1.125	765 24,3	616 24,3	1.095	735 23,1+	FEFCO 0200																						< 240 kg	480 kg	1+2	X	X	X	X	
	GLT-FK-083L			300 11,8		323 12,7	323 12,7		293+ 11,5+																							0,5	102,8						
GLT ring/frame	GLT-R-089L			900 35,4			893 35,2		879+ 34,6+	FEFCO 0501 with loading flaps ²⁾	16.800 ³⁾	12,5	18	22														240 kg ⁴⁾	1+1	TST N098 05.01 001 VDA 4525		X	X	X	X				
	GLT-R-086L	1.140	790	600 23,6	1.125	765 24,3	600 23,6	1.095	735 23,1+	FEFCO 0501																						< 240 kg	480 kg	1+2	X	X	X	X	
	GLT-R-083L			300 11,8		307 12,1	307 12,1		293+ 11,5+																							0,5	102,8						
1140 x 980 mm																																							
GLT folding box	GLT-FK-109L	98-4525-4109-0-00		900 35,4			909 35,8		879+ 34,6+	FEFCO 0200 with loading flaps ²⁾	21.000 ³⁾	12,5	18	22														300 kg ⁴⁾	1+1	TST N098 05.01 001 VDA 4525		X	X	X	X				
	GLT-FK-106L		1.140	980	600 23,6	1.125	955 24,3	616 24,3	1.095	925 23,1+																						FEFCO 0200	< 300 kg	600 kg	1+2	X	X	X	X
	GLT-FK-103L			300 11,8		323 12,7	323 12,7		293+ 11,5+																							0,5	102,8						
GLT ring/frame	GLT-R-109L			900 35,4			893 35,2		879+ 34,6+	FEFCO 0501 with loading flaps ²⁾	21.000 ³⁾	12,5	18	22														300 kg ⁴⁾	1+1	TST N098 05.01 001 VDA 4525		X	X	X	X				
	GLT-R-106L		1.140	980	600 23,6	1.125	955 24,3	600 23,6	1.095	925 23,1+																						FEFCO 0501	< 300 kg	600 kg	1+2	X	X	X	X
	GLT-R-103L			300 11,8		307 12,1	307 12,1		293+ 11,5+																							0,5	102,8						

²⁾ Loading flap at one long side, 750mm widthwise and a height of 440mm. Creasing station only 750mm widthwise, not over the complete length of the box. Cutting of the drop door has to be glued with reinforced adhesive tape!

³⁾ 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 braking strength in the table have been archived with the cardboard material with the stated date (ECT [Edge Crush Resistance],...)

⁴⁾ 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!).

⁵⁾ 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+outside) has to consist of Kraftliners.

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Expendable boxes

Designation	Type no	CA SAP CSE Packing part-no	nominal dimensions			outside dimension			inside dimensions without cover			FEFCO CODE <small>EVEN chosen design of Feico Code has to be checked regarding applicability for chosen application. Recommended design variants should facilitate selection.</small>	Quality ²⁾						Net weight	Volume	Max. gross weight / single box	Max. gross weight / LU	Max. superimposed load / LU, dyn.	Stack- ability	Features	Link to documents	Picture	Application area / Region							
			L	W	H	L	W	H	L	W	H		BCT of loading unit (230/350)	= thickness of cardboard	ECT	Puncture resistance	Bursting strength	Wet bursting strength										Europe	Asia	North Americas	South Americas				
			mm	mm	mm	mm	mm	mm	mm	mm	mm		[N]	mm	[kN/m]	[J]	[kPa]	[kPa]										kg	Liter	kg	kg	lb	gal	kg	lb
GLT - Heavy version (H)																																			
1140 x 790 mm																																			
GLT folding box	GLT-FK-089H		900			909			879+	FEFCO 0200 with loading flaps ²⁾	25,200 ³⁾	12,5	24	30	1,800								360 kg ⁴⁾	1+1		TST N098 05.01 001		X	X	X	X				
			35,4	35,8	34,6+	793,7																													
	GLT-FK-086H		1.140	790	600	1.125	765	616	1.095	735	586+	FEFCO 0200											720 kg	1+2	VDA 4525		X	X	X	X					
			23,6	24,3	23,1+																														
GLT-FK-083H		300			323			293+																											
			44,9	31	11,8	44,3	30,1	127,7	43,1	28,9	11,5+	0,5	137	261,1									< 793,7	1.587,3											
GLT ring/frame	GLT-R-089H		900			893			879+	FEFCO 0501 with loading flaps ²⁾	25,200 ³⁾	12,5	24	30	1,800								360 kg ⁴⁾	1+1		TST N098 05.01 001		X	X	X	X				
			35,4	35,2	34,6+	793,7																													
	GLT-R-086H		1.140	790	600	1.125	765	600	1.095	735	586+	FEFCO 0501 with loading flaps ²⁾											720 kg	1+2	VDA 4525		X	X	X	X					
			23,6	23,6	23,1+																														
GLT-R-083H		300			307			293+																											
			44,9	31	11,8	44,3	30,1	121,1	43,1	28,9	11,5+	0,5	137	261,1									< 793,7	1.587,3											
1140 x 980 mm																																			
GLT folding box	GLT-FK-109H	98-4525-5109-0-00	900			909			879+	FEFCO 0200 with loading flaps ²⁾	31,500 ³⁾	12,5	24	30	1,800								450 kg ⁴⁾	1+1		TST N098 05.01 001		X	X	X	X				
			35,4	35,8	34,6+	992																													
	GLT-FK-106H		1.140	980	600	1.125	955	616	1.095	925	586+	FEFCO 0200											900 kg	1+2	VDA 4525		X	X	X	X					
			23,6	24,3	23,1+																														
GLT-FK-103H		300			323			293+																											
			44,9	38,6	11,8	44,3	37,6	127,7	43,1	36,4	11,5+	0,5	137	261,1									< 992	1.984,2											
GLT ring/frame	GLT-R-109H		900			893			879+	FEFCO 0501 with loading flaps ²⁾	31,500 ³⁾	12,5	24	30	1,800								450 kg ⁴⁾	1+1		TST N098 05.01 001		X	X	X	X				
			35,4	35,2	34,6+	992																													
	GLT-R-106H		1.140	980	600	1.125	955	600	1.095	925	586+	FEFCO 0501 with loading flaps ²⁾											900 kg	1+2	VDA 4525		X	X	X	X					
			23,6	23,6	23,1+																														
GLT-R-103H		300			307			293+																											
			44,9	38,6	11,8	44,3	37,6	121,1	43,1	36,4	11,5+	0,5	137	261,1									< 992	1.984,2											

²⁾ Loading flap at one long side, 750mm widthwise and a height of 440mm. Creasing station only 750mm widthwise, not over the complete length of the box. Cutting of the drop door has to be glued with reinforced adhesive tape!
³⁾ Min.Breaking strength (BCT) that has to be archived. Test has to be done with onepallet under the loading unit and one pallet on top! The values for braking strength in the table have been archived with the cardboard material with the stated date (ECT [Edge Crush Resistance],...)
⁴⁾ 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!).
⁵⁾ 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+outside) has to consist of Kraftliners.

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Expendable boxes

Designation	Type no	CA SAP CSE Packaging part-no	nominal dimensions			outside dimension			inside dimensions without cover			FEFCO CODE <small>Even chosen design of Feico Code has to be checked regarding applicability for chosen application. Recommended design variants should facilitate selection.</small>	Quality ⁹⁾							Net weight	Volume	Max. gross weight / single box	Max. gross weight / LU	Max. superimposed load / LU, dyn.	Stack- ability	Features	Link to documents	Picture	Application area / Region			
			L	W	H	L	W	H	L	W	H		BCT of loading unit (230/65/85)	= thickness of cardboard	ECT	Puncture resistance	Bursting strength	Wet bursting strength	Europe										Asia	North Americas	South Americas	
			mm	mm	mm	mm	mm	mm	mm	mm	mm		[N]	mm	[kN/m]	[J]	[kPa]	[kPa]	kg										Liter	kg	kg	
			in	in	in	in	in	in	in	in	in			in	[lbs/in]		lb/ft ²	lb/ft ²	lb										gal	lb	lb	
RSC and HSC corrugates cardboard boxes (KLT carton) and the appropriate single lids																																
24 x 15" KLT cartons																																
RSC boxes with C-flute	241507	98-5000-0072-0-00	610	381	178	553	340	179	544	330	160	FEFCO 0201			7,7	1.896	2,18	28,72	15	< 300 kg	600 kg	1+2					X					
			24	15	7	21,78	13,38	7,05	21,4	13	6,3				44	275	4,8	7,59	33	< 661 lb	1323 lb											
		98-5000-0070-2-00	610	381	178	553	340	179	544	330	160				5,6	1.379	2,18	28,72	15	< 240 kg	480 kg							X				
			24	15	7	21,78	13,38	7,05	21,4	13	6,3				32	200	4,8	7,59	33	< 529 lb	1058 lb											
HSC boxes with C-flute	241507	98-5000-0055-4-00	610	381	178	553	340	175	544	330	155	FEFCO 0200			7,7	1.896	2,18	27,81	15	< 300 kg	600 kg	1+2	Use lid 2415			X						
			24	15	7	21,78	13,38	6,89	21,4	13	6,1				44	275	4,8	7,35	33	< 661 lb	1323 lb											
		98-5000-0062-9-00	610	381	178	553	340	175	544	330	155				5,6	1.379	2,18	27,81	15	< 240 kg	480 kg						X					
			24	15	7	21,78	13,38	6,89	21,4	13	6,1				32	200	4,8	7,35	33	< 529 lb	1058 lb											
RSC boxes with C-flute	241509	98-5000-0072-1-00	610	381	229	553	340	230	544	330	211	FEFCO 0201			7,7	1.896	2,27	37,84	15	< 300 kg	600 kg	1+2				X						
			24	15	9	21,78	13,38	9,05	21,4	13	8,3				44	275	5	10,00	33	< 661 lb	1323 lb											
		98-5000-0070-3-00	610	381	229	553	340	230	544	330	211				5,6	1.379	2,27	37,84	15	< 240 kg	480 kg						X					
			24	15	9	21,78	13,38	9,05	21,4	13	8,3				32	200	5	10,00	33	< 529 lb	1058 lb											
HSC boxes with C-flute	241509	98-5000-0055-5-00	610	381	229	553	340	226	544	330	207	FEFCO 0200			7,7	1.896	2,27	37,11	15	< 300 kg	600 kg	1+2	Use lid 2415			X						
			24	15	9	21,78	13,38	8,89	21,4	13	8,14				44	275	5	9,80	33	< 661 lb	1323 lb											
		98-5000-0063-0-00	610	381	229	553	340	226	544	330	207				5,6	1.379	2,27	37,11	15	< 240 kg	480 kg						X					
			24	15	9	21,78	13,38	8,89	21,4	13	8,14				32	200	5	9,80	33	< 529 lb	1058 lb											
24 x 22" KLT cartons																																
RSC boxes with C-flute	242209	98-5000-0073-8-00	610	559	229	553	530	225	544	521	206	FEFCO 0201			7,7	1.896	2,23	58,23	15	< 300 kg	600 kg	1+2				X						
			24	22	9	21,78	20,88	8,85	21,4	20,5	8,1				44	275	4,9	15,38	33	< 661 lb	1323 lb											
		98-5000-0070-7-00	610	559	229	553	530	225	544	521	206				5,6	1.379	2,23	58,23	15	< 240 kg	480 kg						X					
			24	22	9	21,78	20,88	8,85	21,4	20,5	8,1				32	200	4,9	15,38	33	< 529 lb	1058 lb											
HSC boxes with C-flute	242209	98-5000-0063-4-00	610	559	229	553	530	221	544	521	202	FEFCO 0200			7,7	1.896	2,23	57,08	15	< 300 kg	600 kg	1+2	Use lid 2422			X						
			24	22	9	21,78	20,88	8,69	21,4	20,5	7,94				44	275	4,9	15,08	33	< 661 lb	1323 lb											
		98-5000-0000-7-00	610	559	229	553	530	221	544	521	202				5,6	1.379	2,23	57,08	15	< 240 kg	480 kg						X					
			24	22	9	21,78	20,88	8,69	21,4	20,5	7,94				32	200	4,9	15,08	33	< 529 lb	1058 lb											
RSC boxes with C-flute	242211	98-5000-0073-9-00	610	559	279	553	530	268	544	521	249	FEFCO 0201			7,7	1.896	3,55	70,45	15	< 300 kg	600 kg	1+2				X						
			24	22	11	21,78	20,88	10,55	21,4	20,5	9,8				44	275	7,8	18,61	33	< 661 lb	1323 lb											
		98-5000-0070-8-00	610	559	279	553	530	268	544	521	249				5,6	1.379	3,55	70,45	15	< 240 kg	480 kg						1+2	X				
			24	22	11	21,78	20,88	10,55	21,4	20,5	9,8				32	200	7,8	18,61	33	< 529 lb	1058 lb											
HSC boxes with C-flute	242211	98-5000-0063-5-00	610	559	279	553	530	264	544	521	245	FEFCO 0200			7,7	1.896	3,55	69,30	15	< 300 kg	600 kg	1+2	Use lid 2422			X						
			24	22	11	21,78	20,88	10,39	21,4	20,5	9,64				44	275	7,8	18,31	33	< 661 lb	1323 lb											
		98-5000-0001-2-00	610	559	279	553	530	264	544	521	245				5,6	1.379	3,55	69,30	15	< 240 kg	480 kg						1+2	X				
			24	22	11	21,78	20,88	10,39	21,4	20,5	9,64				32	200	7,8	18,31	33	< 529 lb	1058 lb											
Single lids (24 x 15" and 24 x 22")																																
Lid B-Flute	2415	98-5000-0054-3-00	610	381	44	577	347	47	555	341	44	FEFCO 0422			5,6	1.379	0,16									X						
Lid B-Flute	2422	98-5000-0054-4-00	24	15	1,73	22,71	13,66	1,85	21,85	13,42	1,73				32	200	0,34															
			610	559	44	577	538	47	555	532	44				5,6	1.379	0,23															
			24	22	1,73	22,71	21,18	1,85	21,85	21	1,73				32	200	0,51															