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Approved by (department acronym, name)

Issued by (department acronym name phone)

OIPH Doris Lanke +31618581150

To (department acronym name)

Title

Strapping of units

File name

SPG067-INST-Strapping of units

Date

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Strapping of units

1 Requirements

Goods in pallets with collars, on top of pallets and/or in boxes and packaging materials shall be strapped using plastic straps made from polypropylene (PP), unless otherwise stated in the packaging instruction or distribution unit instruction on PackIT.

The polypropylene strap used shall have an UTS (ultimate tensile strength) of at least 2670N and an elasticity of 8-9%, unless otherwise stated in the packaging instruction on PackIT. The polypropylene strap used for a distribution unit of collars shall have an UTS of at least 6000N and an elasticity of 12%, unless otherwise stated in the distribution unit instruction on PackIT.

The tension force used for strapping the pallets differs per strapping method, e.g. fully automated sealing, sealing by hand or by hand using a connector. For this reason a standardised tension force setting is not available. The tension force used shall not cause the straps to damage the packaging materials and the tension force used shall secure the units during handling and transport. For plastic pallets the units shall be strapped with a tension force of maximum 390N to avoid damages.

It is preferred that the straps are sealed together, but when connectors are used they shall be made from the same material as the straps (PP), see figure 1.



Figure 1 - Strap with connector from the same material as the strap

The straps shall be placed over the short side of the pallet.

Straps shall not cover the bar codes of the labels, since it is crucial for Scania Production Units to secure automatic scanning. More details regarding the labelling of the pallets can be found in *STD4172-10 Scania Logistics Manual – Goods Labels – Design, Position and Usage* and on the *Scania Supplier Portal > Supplying to Scania > Logistics > Automotive Products > Labelling*.

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Figure 2 - Example of master label and strap not covering bar codes

2 Restrictions

Since certain materials cannot be recycled straps with fibre amplifiers, metal connectors or metal straps in general shall not be used. Examples of these can be found in figure 3.

For safety and sustainability reasons, staples shall be avoided on the straps.




Figure 3 – Straps with metal connectors and nylon amplifiers shall not be used

3 Number of straps and position of the straps

Strapping of returnable units and distribution units shall be done in accordance with the information in the tables below.

Table 1 - Number of straps and position of the straps per pallet type





Pallet type	Number of straps	Position of the straps	Example
H-pallet	1 or 2	In the middle of the pallet or 200-250 mm from the outer edge of the pallet	

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Pallet type	Number of straps	Position of the straps	Example
H-pallet with boxes	2	200-250 mm from the outer edge of the pallet	
E-pallet	2	200-250 mm from the outer edge of the pallet	 
E-pallet with boxes	2	200-250 mm from the outer edge of the pallet	

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Pallet type	Number of straps	Position of the straps	Example
Plastic pallet	2	Strapping shall be done according to the picture. The straps shall not be placed outside the dedicated areas.	
S-pallet	2 (if more than 5 collars are used, 3 straps shall be used)	200-250 mm from the outer edge of the pallet (if applicable, third strap in the middle of the pallet)	
T-pallet	2 (if more than 5 collars are used, 3 straps shall be used)	200-250 mm from the outer edge of the pallet (if applicable, third strap in the middle of the pallet)	
M-pallet	2 (if more than 5 collars are used, 3 straps shall be used)	200-250 mm from the outer edge of the pallet (if applicable, third strap in the middle of the pallet)	
L-pallet	2 (if more than 5 collars are used, 3 straps shall be used)	200-250 mm from the outer edge of the pallet (if applicable, third strap in the middle of the pallet)	

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Pallet type	Number of straps	Position of the straps	Example
X-pallet	3	200-250 mm from the outer edge of the pallet and in the middle of the pallet	

Table 2 - Number of straps and position of the straps per distribution unit type

Distribution unit type	Number of straps	Position of the straps	Example
Collars	2	200-250 mm from the outer edge of the pallet	
Lids (not MH-2319)	2	200-250 mm from the outer edge of the pallet	
MH-2319 (H-lid)	1	In the middle of the pallet	

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Distribution unit type	Number of straps	Position of the straps	Example
Plastic boxes	2	200-250 mm from the outer edge of the pallet	
All other MH-numbers (unless otherwise stated in the distribution unit instruction on PackIT)	1	In the middle of the pallet	

For single-use packaging strapping shall be done with 1 strap if the net weight of the unit is below 200 kg and with 2 straps if the net weight is above 200 kg. Shrink wrap shall not be used.