

Delivery instruction – H - Packaging guideline supplementing Transport and Packing Regulations of Würth Industrie Service GmbH & Co. KG (WIS) for suppliers located in Europe

I. Scope of application

This delivery instruction – H - Packaging guideline applies in addition to the Transport and Packaging Regulations (TPR) of Würth Industrie Service GmbH & Co. KG (WIS) for all suppliers based in Europe. Its purpose is to prevent damage to the goods and to avoid disruptions to the conveyor system during conveyor-based pallet transport in the warehouse.

II. Transport safety / Load safety / Pallet packaging

To ensure safe packaging for transport and loading, the following has to be observed:

1. Non-slip sheet

A non-slip sheet must be placed on the Euro pallet beneath the first layer of goods (Figure 1)



Figure 1: stretch bands

2. Stretch bands

Stretch bands measuring 1200 x 100 mm must be applied tightly around each complete layer of goods (Figure 2)



Figure 2 stretch bands

3. Edge protectors

To prevent damage of the goods, edge protectors must be installed on all four corners of the pallet. (Figure. 3)



Figure 3: edge protectors

4. Pallet Strapping

Plastic straps must be applied directly beneath the pallet deck boards to secure the goods. Straps should not be placed beneath the pallet blocks or footboards. The pallet must be tightly secured using at least two straps lengthwise and crosswise. Edge protectors are mandatory to prevent the cardboard from being damaged or cut (Figure. 4)



Figure 4: strapping of pallets

5. Foil-wrapping of pallets

Pallets containing goods must be foil-wrapped, ensuring that the pallet foot space remains completely free of film. The film ends must be cut and secured so that no loose ends remain. (Figure 5)



Figure 5: Foil-wrapping of pallets

III. Cardboard quality requirements for packing units

In addition to paragraph III, point 4 of the WIS Transport and Packaging Regulation (TPR), carton boxes intended for robot handling must meet the following requirements: (Figure. 6 and Figure 7):

1. For volumes up to 750 cm³ (0.75 liters):

Paper quality: 1.30 E-flute, single-wall:

- Outer liner: 125 g/m² kraftliner brown
- Fluting: 90 g/m² corrugating medium
- Inner liner: 135 g/m² testliner brown

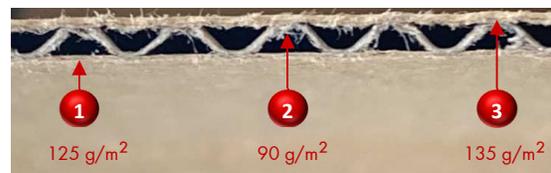


Figure 6: cardboard 1.30 Eflute, single wall

2. For volumes above 750 cm³ (0.75 liters):

Paper quality: 1.30 B-flute, single-wall:

- Outer liner: 135 g/m² kraftliner brown
- Fluting: 110 g/m² corrugating medium
- Inner liner: 135 g/m² testliner brown

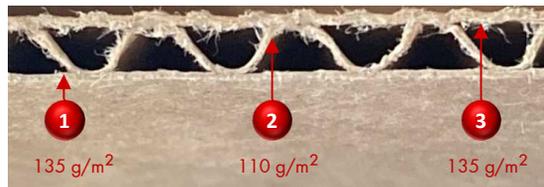


Figure 7: cardboard 1.30 B-flute, single wall

IV. Sealing of packing units

Packing units must be sealed crosswise, i.e. one strip of adhesive tape must be applied along the central closing seam and a second strip applied perpendicularly over the insertion tab to reinforce the closure. Adhesive tape with a minimum width of 50 mm must be used (Figure. 8)



Figure 8: sealing of packing units

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