

Delivery regulation for packaging materials with solid wood components

THE DELIVERY REGULATION DEFINES THE REQUIRE-
MENTS FOR ALL PACKAGING MATERIALS CONTAINING
SOLID WOOD COMPONENTS

PN: 6000.120.297

Version 1.0

Date: 17.04.2019

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Recipient Suppliers for packaging materials with solid wood components

Subject **Packaging materials with solid wood components**

Contents

1	Scope	2
2	Packaging materials with solid wood components	2
2.1	Treatment	2
2.2	Material	2
2.3	Marking	2
3	Wooden pallets	3
3.1	Treatment	3
3.2	Material	3
3.3	Marking	3
4	Heat treatment verification	3
5	Storage	4
6	Technical fulfillment	4
6.1	Construction	4
6.2	Tolerance of dimensions	4
7	„Attachment 1“	5
7.1	Boundary sample catalogue IPPC marking for packaging materials with solid wood components	5
8	„Attachment 2“	7
8.1	Boundary sample catalogue IPPC marking wooden pallets	7
9	„Attachment 3“	8
9.1	Boundary sample catalogue mould	8

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1 Scope

This delivery regulation applies¹ to all kinds of packaging materials with solid wood components like pallets, wooden boxes, kits (e.g. out of wooden pallets and corrugated board) dunnage, cable drums, intermediate layers, lids, reels/coils, etc.

Deviations of this delivery regulation have to be documented by supplier and approved by BOSCH.

Every mentioned norm and standard in this delivery regulation has to be executed based on its newest version.

2 Packaging materials with solid wood components

2.1 Treatment

- The heat treatment according IPPC Standard ISPM15 takes place after complete assembly of the wooden packaging.

In case the heat-treatment of the fully assembled wooden packaging cannot be executed (e.g. because of the dimensions of the packaging) it has to be guaranteed, that the processed solid wooden components, were heat-treatment according IPPC-Standard ISPM 15.

2.2 Material

- Acceptable moisture content 12-22% with takeover of the material by Bosch.
- Wood must be free of bark, pests, insects and any damages by insects (e.g. drill holes).

2.3 Marking

- The solid wood components must be marked permanently and legibly according IPPC-Standard ISPM 15 and to "Attachment 1: Boundary sample catalogue IPPC marking for packaging materials with solid wood components".

¹ Euro pallets according to EPAL / UIC 435-2 norm are excluded

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3 Wooden pallets

3.1 Treatment

- The heat treatment according IPPC Standard ISPM15 takes place after complete assembly of the wooden pallets. Heat treatment of components before assembly is not approved.

3.2 Material

- Acceptable moisture content 12-22% with takeover of the material by Bosch.
- Wood must be free of bark, pests, insects and any damages by insects (e.g. drill holes).
- Block
 - Solid wood
 - Derived timber (gross density 580 kg/m³ and tack according to DIN 15147, acceptable moisture content max. u 18% according DIN 68800-2).

3.3 Marking

- Pallets must be marked permanently and legibly on 2 blocks, at opposite sides according IPPC-Standard ISPM 15 and to "Attachment 2: Boundary sample catalogue IPPC marking wooden pallets". Ineligible markings have to be removed.

4 Heat treatment verification

The following documents have to be stored by the supplier for at least two years and shall be presented to BOSCH group upon request immediately.

- Temperature-Time-Profile of the IPPC heat-treatment process with reference to the delivered material to Bosch
 - NOTE: Process validation mandatory. It needs to be validated and proven, that the documented Temperature-Time-Profile fulfills the ISPM 15 requirements

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5 Storage

- Packaging materials with solid wood components have to be stored sufficiently ventilated and protected from weather conditions.
- Not permissible: mould, sponge and dry rot, according to “Attachment 3: Boundary sample catalogue mould”.
- Treated packaging materials with solid wood components have to be marked clearly as heat treated good and stored at a defined storage location for heat treated goods. A combined storage with non-heat treated packaging materials is forbidden.

6 Technical fulfillment

6.1 Construction

All constructions have to be in accordance to the existing BOSCH drawing and packaging data sheet or according to a BOSCH approved drawing.

6.2 Tolerance of dimensions

If not defined differently in the drawing or in the packaging data sheet, tolerances according DIN EN 336 are valid.

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7 „Attachment 1“

7.1 *Boundary sample catalogue IPPC marking for packaging materials with solid wood components*

- Fully recognizable frame
- IPPC logo and letters clearly readable
- Country code and supplier number clearly readable
- HT marking clearly readable

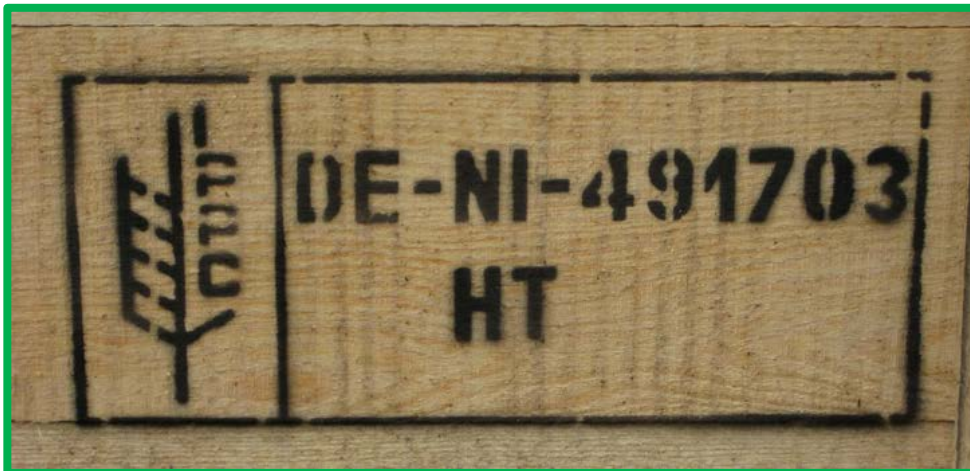


Figure 1: Marking ok



Figure 2: Marking ok

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Figure 3: Not ok: Country code and supplier number not clearly readable, frame and IPPC logo incomplete



Figure 4: Not ok: frame incomplete, IPPC logo and HT marking not clearly readable



Figure 5: Not ok: planar surface burning, IPPC logo not clearly readable, Country code and supplier number not clearly readable

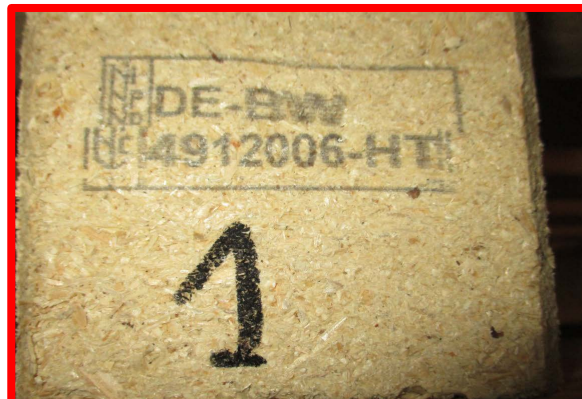


Figure 6: Not ok: Country code not clearly readable, frame incomplete, IPPC logo not clearly readable

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8 „Attachment 2“

8.1 Boundary sample catalogue IPPC marking wooden pallets

- Fully recognizable frame
- IPPC logo and letters clearly readable
- Country code and supplier number clearly readable
- HT marking clearly readable
- Only one type of IPPC-marking (country code & supplier number) per pallet allowed



Figure 7: Marking ok



Figure 8: Marking ok



Figure 9: Not ok: Country code and supplier number not clearly readable, frame and IPPC logo incomplete



Figure 10: Not ok: frame incomplete, HT marking not clearly readable

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9 „Attachment 3”

9.1 *Boundary sample catalogue mould*

- **Packaging material not ok:**
 - Mould, sponge, dry rot: wadding-like mounds / efflorescence coloured (mostly): green, blue-green, black, reddish, white.
- **Packaging material ok:**
 - Blue mould: in the wood, along and/or radial to the wood fibers, coloured blue to grey-black.



Figure 11: ok: blue mould



Figure 12: ok blue mould

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Figure 13: ok blue mould



Figure 14: ok blue mould



Figure 15: not ok, mould, sponge, dry rot

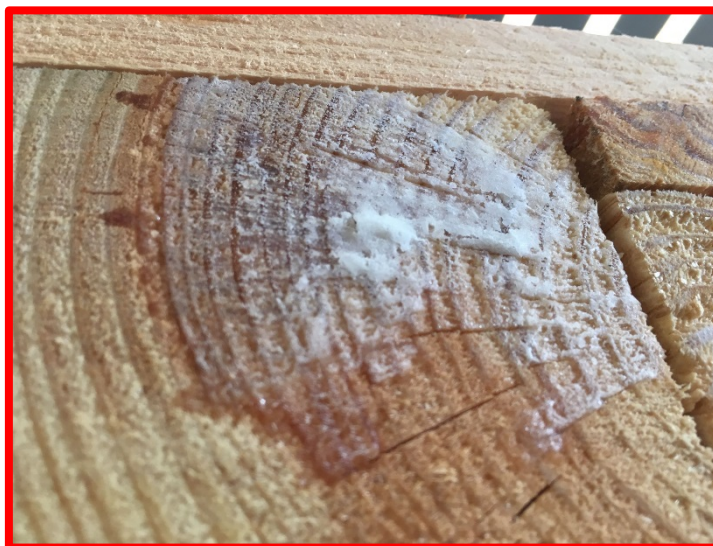


Figure 16: not ok, mould, sponge, dry rot

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Figure 17: not ok, mould, sponge, dry rot



Figure 18: not ok, mould, sponge, dry rot



Figure 19: not ok, mould, sponge, dry rot



Figure 20: not ok, mould, sponge, dry rot

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