

2JCP packing specification

1. Scope

This specification covers the packing to be provided for all equipment and materials to prevent damage in transit.

2. Type of Packing

The Type of packing to be used shall be determined by the Project Engineer giving due regard to the requirements of the customer, the project and the 2JCP requirements as specified in this document.

The Types defined in this Specification are as follows:

Type	Description	Specification reference
1	Close boarded timber case	Section 5
2	Timber framed plywood clad case	Section 6
3	Triwall batten end and round	Section 7
4	Palletisation and shrinkwrapping	Section 8
5	Large units - packed by covers	Section 9
6	Saddles for stacks, silencers etc.	Section 10

Packing requirement	Specified Type
Road transport	All types
Sea freight	Type 1 or 2
Customers specified	If the customer specification results in a lower standard of packing than specified herein, the customer shall be informed of this in writing.

3. Packing Details

- 3.1. All purchased timber parts to be treated according to ISPM No. 15 GUIDELINES FOR REGULATING WOOD PACKAGING MATERIAL IN INTERNATIONAL TRADE (2002) with modifications to Annex I (2006).
- 3.2. All items to be packed shall at all times be handled in such a way as to prevent any damage occurring during the process of packing. This specifically includes the collection of items from a supplier and their transport to the place of packing.
- 3.3. All items of equipment shall have all open apertures sealed with polythene and/or tape regardless of the subsequent packaging method to be used.
- 3.4. All items of equipment or material shall be fastened into their packing cases in such a way as to ensure that the case does not spill its contents during transit.
- 3.5. Where several items are packed into the same case or pallet, adequate timber spacers must be inserted between those items to prevent damage in transit.
- 3.6. Wood-wool and other hydroscopic material such as hay and straw shall not be used.
- 3.7. All packing cases / pallets shall conform to the details as described within this specification.
- 3.8. All equipment shall, where possible, be bolted to the base of the cases and/or adequately secured in position to prevent movement during transit.
- 3.9. Where the goods to be packed include parts liable to damage by shock or vibration, e.g. bearings, an approved packing method shall be obtained from the supplier of those parts.
- 3.10. When it is requested that items be packed into a moisture proof foil bag, the bag shall be charged with a suitable quantity of desiccant in accordance with BS 1133 Section 19, "Use of Desiccants in Packaging".

3.11. All items shall be checked prior to packing and a contents list shall be attached both on the inside and outside of each case.

3.12. Additional requirements to be specified by customer if necessary.

4. Case Marking

4.1. **Types 1, 2 and 3** Marking shall be legible, permanent and unobscured, stencilled onto cases with black ink. Marking will be appropriate to the size of the case but should be 50mm high as a minimum. The text shall include:

- Client Name
- Client Address
- Client Purchase Order Number
- Project Name
- 2JCP Reference
- Weight, Gross and Net (kg)
- Dimensions (cm)

4.2. **Types 4, 5 and 6** The information shall be as defined in paragraph 4.1 above, but on a Packing list contained in a pouch attached to the outside of each package.

4.3. Cases shall, without exception, be marked with international handling symbols (e.g. Lifting points, This Way Up, Fragile).

5. Packing Type 1 - Close boarded timber case

5.1. Packing cases shall be constructed of sound and well seasoned timber. The case can be nailed or screwed together.

5.2. **Crate construction (see figure 1,2)**

Frame description	Up to 1000 kg	1001 to 7000 kg
Skid	100 mm x 100 mm balks	100 mm x 100 mm balks
Frame	18 mm thk timber battens	45 mm x 90 mm balks
Sheathing	18 mm thk timber battens	18 mm thk timber battens
Steel strip stiffeners	no	yes
Steel support skid	no	from 4000 kg (UPN 140-220)
Water resistant material	Only for sea freight transport	Only for sea freight transport

6. Packing Type 2 - Timber framed plywood clad case

6.1. Packing cases shall be constructed of sound and well seasoned timber.

6.2. **Crate construction (see figures 1,2 - instead timber battens will be used plywood as sheathing)**

Frame description	Up to 1000 kg	1001 to 7000 kg
Skid	100 mm x 100 mm balks	100 mm x 100 mm balks
Frame	18 mm thk timber battens	45 mm x 90 mm balks
Sheathing	8mm glued plywood	8mm glued plywood
Steel strip stiffeners	no	yes
Steel support skid	no	from 4000 kg (UPN 140-220)
Water resistant material	Only for sea freight transport	Only for sea freight transport

7. Packing Type 3 - Triwall batten end and round

7.1. The timber used shall be sound and well seasoned softwood.

7.2. **Crate construction (see figure 3)**

Frame description	Up to 1500 kg
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Skid	100 mm x 100 mm balks
Frame	18 mm thk timber battens

8. Packing Type 4 - Palletisation and shrinkwrapping

- 8.1. The timber used shall be sound and well seasoned softwood.
- 8.2. The pallets shall be manufactured in a manner consistent with the weight of the load they are to carry.

8.3. Pallet construction (see figures 4)

Frame description	Up to 4000 kg	4001 to 7000 kg
Skid	100 mm x 100 mm balks	100 mm x 140 mm balks
Base decking	18 mm thk timber battens	45 mm x 90 mm balks
Steel support skid	no	from 4000 kg (UPN 140-220)

- 8.4. The size of the pallet shall be sufficiently large so that no part of the load overhangs the edge of the pallet.
- 8.5. The space on the pallet shall be fully utilised so far as is possible.
- 8.6. Spacers of timber or plywood commensurate with the weight of the items shall be inserted between items to spread the load and to prevent damage during transit.
- 8.7. Goods shall be securely fixed to the pallets by metal or plastic strapping commensurate with the weight and shape of the goods and the transport conditions likely to be encountered.
- 8.8. Each pallet shall be fully covered with a 250 micron polythene shrinkwrap film that is then heat treated to draw it in tightly round the goods on the pallet.
- 8.9. Projections on aluminium items shall be suitably protected from damage or distortion due to forces from packing, securing or heatshrinking.

9. Packing Type 5 - Large Units, non palletised (see figure 5)

- 9.1. This type covers the transport by road of large units, that is, units not contained in a case or on a pallet in accordance with paragraph 8 above.
- 9.2. All apertures shall be covered with 250 micron polythene and then boarded with 9mm or greater plywood suitably braced. Alternatively Zintec may be used in place of plywood.
- 9.3. Units shall be completely wrapped in 250 micron polythene. This shall be secured so as to prevent any possibility of the integrity of the polythene covering being violated during handling or transportation.
- 9.4. Units wrapped in accordance with paragraph 8.1 may also be covered with a tarpaulin after loading onto transportation.

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10. Packing Type 6 - Saddles for stacks, silencers etc. (see figure 6)

- 10.1. Saddle contact angle on the equipment body must be between 120° and 180°.
- 10.2. The clearance from ground to the most lowest bottom nozzle/ lug shall be 200mm
- 10.3. Saddles shall be constructed of sound and well seasoned balks. Each of balks of saddle must be nailed together.

Figure 1 - Close boarded timber case 1001 to 7000 kg(Sea freight)



Steel strip stiffeners



Steel support skid (UPN 140-220)



Figure 2 - Close boarded timber case up to 1000 kg (Sea freight)



Figure 3 - Triwall batten end and round



Figure 4 - Palletisation and shrinkwrapping



Figure 5 - Large units, non palletised



Figure 6 - Saddles for stacks, silencers etc.

