

Strength in Protection



Slatted Wooden Crates for Transport of Marker Bouys

Axis Packaging were contracted by a specialised engineering services company, to custom design and build a set of wooden crates suitable to transport marker bouys by road and sea.

Client Requirements

- A total of 10 crates were required, each with the capacity to hold 42 marker bouys.
- Each of the bouys needed to be separated within the crate.
- The crates were required to be suitable for road and sea transport.

Our Challenges

- To ensure each bouy was secure and isolated in the most space and cost efficient manner.
- To ensure the crate would be well balanced when filled with the bouys.
- The crates were initially designed and to hold the bouys without their bases being filled, but were then required to hold the bouys after they were filled with cement. This meant the crates needed to hold a combined weight of 2 tonnes.
- After initial production scheduling, a change in the client's shipment deadlines required the crates to be produced in a two day turnaround.

Our Solution

- We custom designed and built 10 open slatted crates with solid bases, and plywood internal fitouts to stabilise and isolate each of the marker bouys.
- The lower bouy isolation support was built out of 18mm plywood and the upper section from 7mm plywood. This ensured reduced crate weight without compromising bouy stability.
- As the crates were designed to high initial specifications, we were able to guarantee a 2 tonne holding capacity when they were required to hold the bouys after the bases were cement filled.
- Efficient production and re-scheduling meant we were able to meet the two day turnaround required to ensure the client met their transportation deadlines.



One of the custom built wooden crates showing the plywood internal fitout.



The custom built wooden crates with the marker bouys held in place.

