



Clip-Lok SimPak[®]

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Lithiumbatteries

- During a search in sales tool Kompass we found a Lithium battery developer in the close area.
- Contact and investigation made clear that this is a case for Clip-Lok.
- The company is Alelion Batteries in Gothenburg.
- They have specialized themselves in solution for 24 and 48 volt effect.
- Some of the product development takes place in Gothenburg.
- After some specification and testing we also made the conclusion that the ADR certificate would not be needed due to improvement of the exterior barrier.

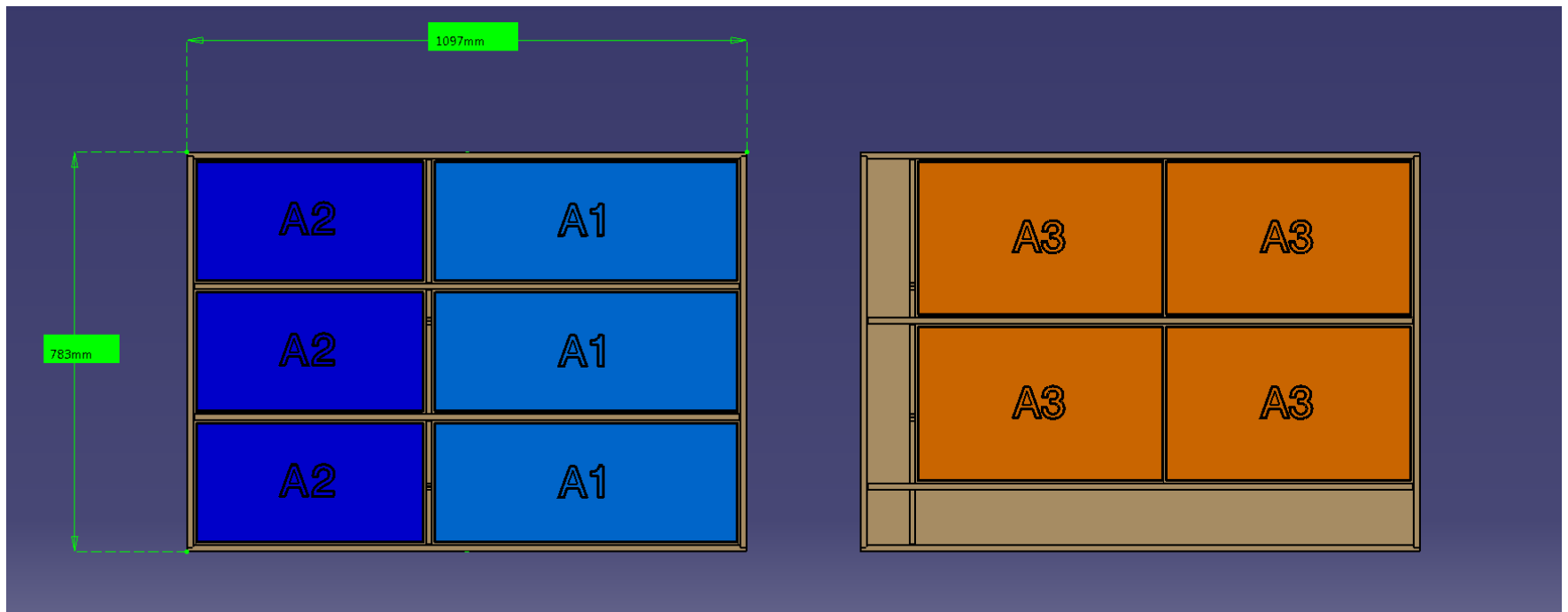
Benefits with a Lithium batteries is:

- Weight
 - Maintenance
 - Life cycle
 - Less electrical consumption towards a standard battery
 - Daily savings that provide a return within 3 - 9 months
 - Handles vibration and ruff treatment better
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- Same as a Clip-Lok box, off curse. 😊

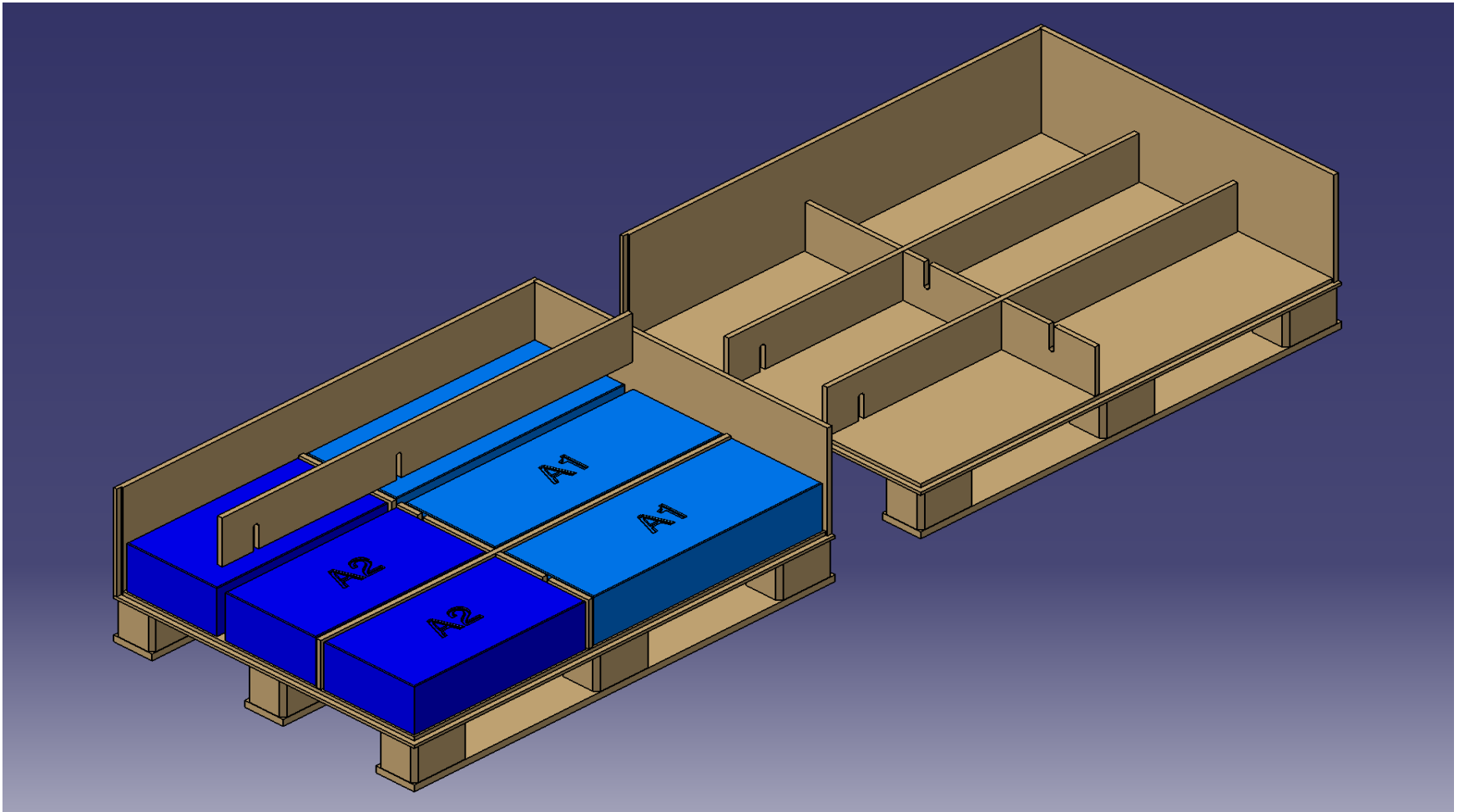
Solution

- The challenge was to make a box that could handle 3 different types of articles and still be able handle the weight, dunnage, be flat packed and be close to the 1200x800 dimension for the best truck handling.
- The final solution was concluded being 1109x783x409x416mm.
- A1: 595x238x130 35 kg
- A2: 445x238x130 26 kg
- A3: 480x298x130 30,5 kg
- Another challenge was that one side had to be separated from the other and that A1 and A2 was articles that need to be handle as a pair.
- An inner dunnage was made to separate the articles during transport, also a separate plate so that we could handle two layers of batteries per box.
- And we also had to consider the weight, there was a limit off 400 kg restriction in the ADR rules.

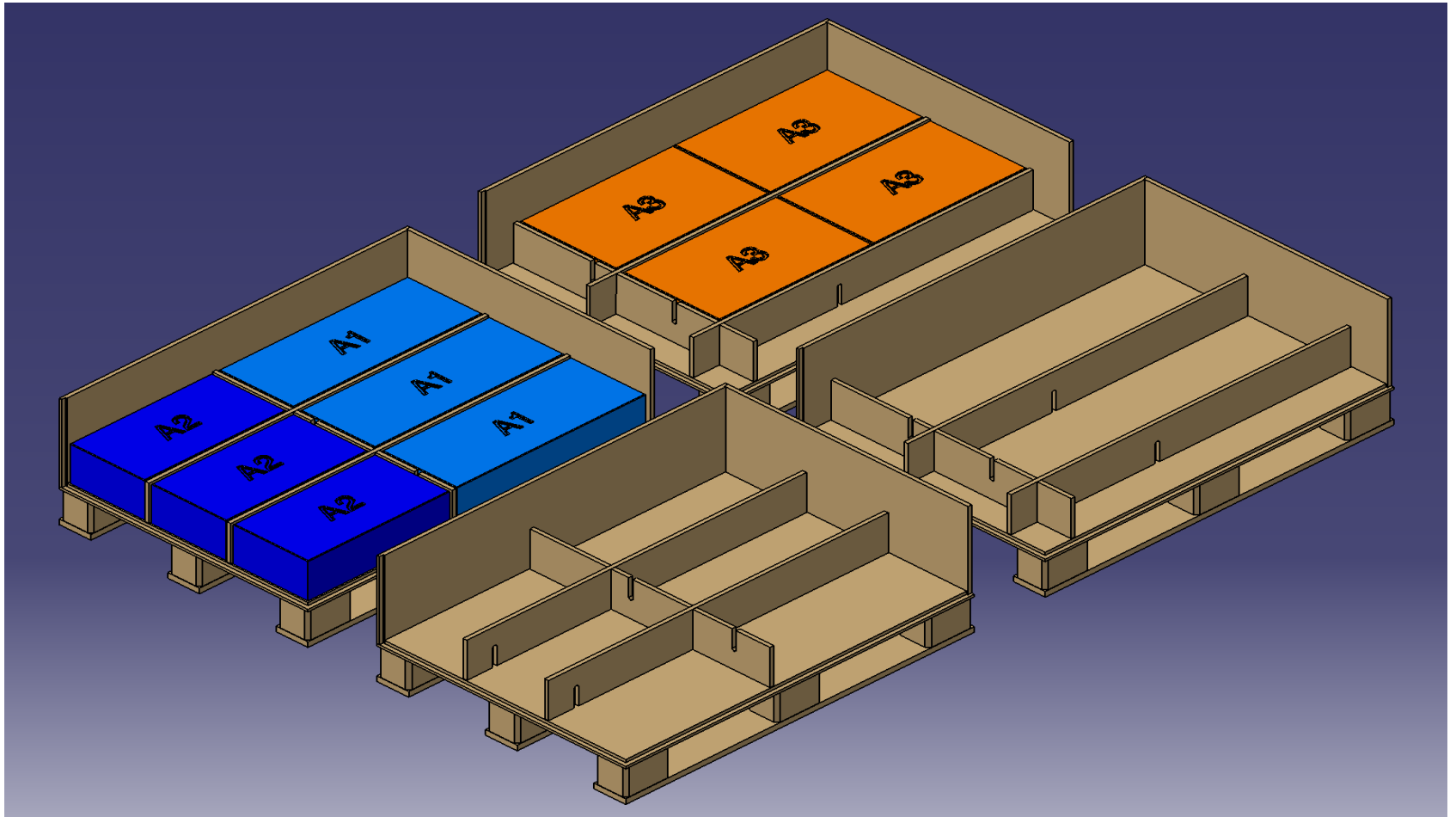
Different size batteries are packed in same box



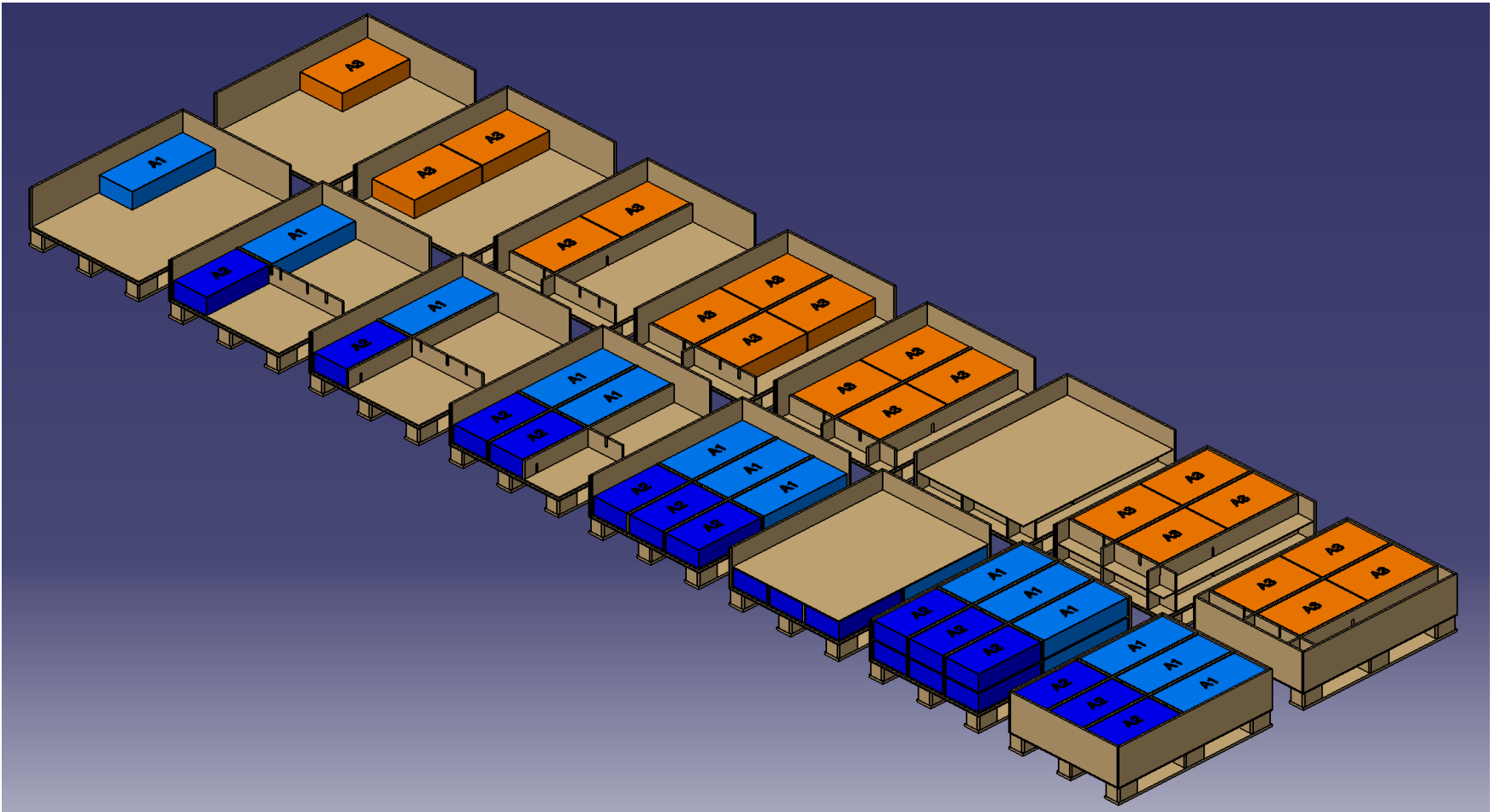
Batteries and open surfaces are kept apart by
dividing walls



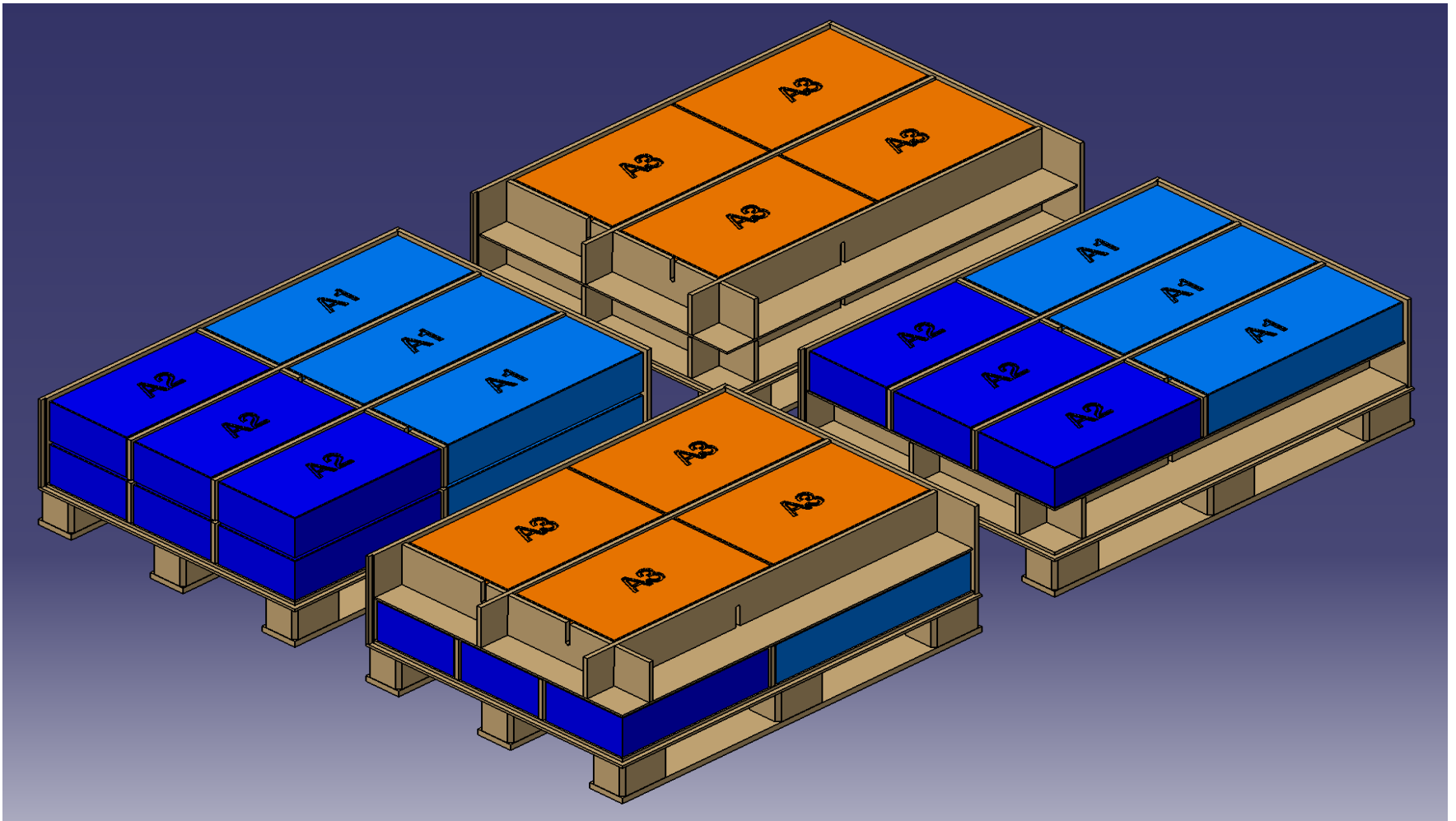
Same number of walls, different positions



Packing process



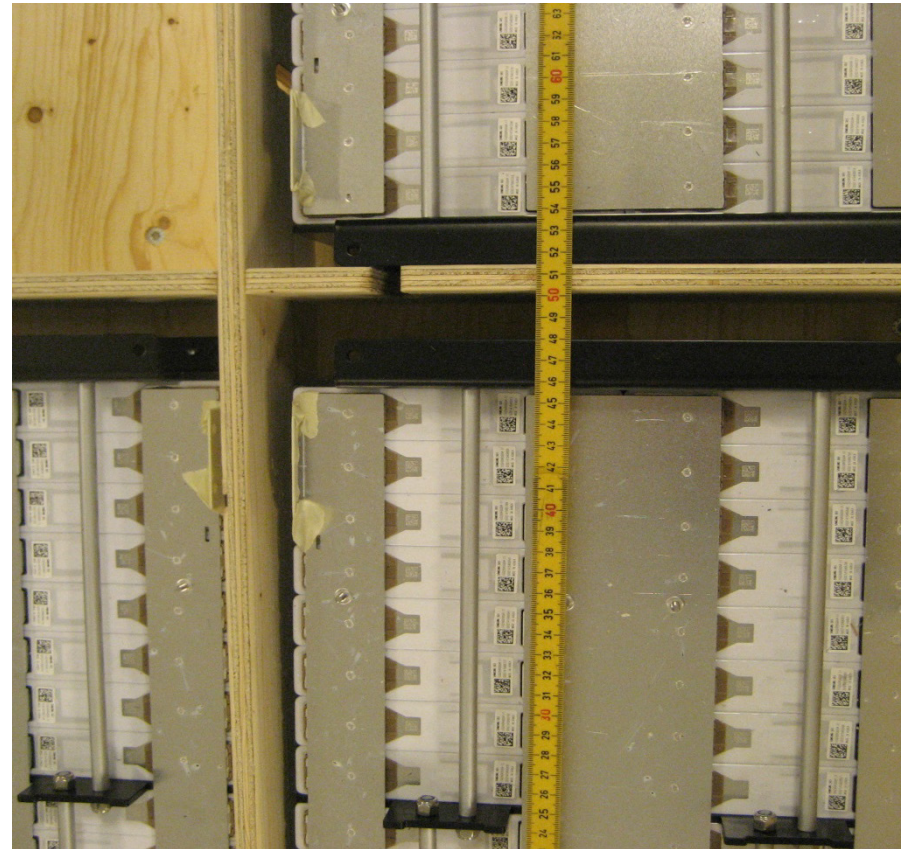
Combinations of packing



Sum up

- We are now in the process to get a new order from the customer.
- We will also get a new project in the end of the year because of the solution and all the good work that's been done.
- Saving for the customer is approx.: 16-18 000 € per year.
- Over all, this also gave us a lead to another client that recommended Clip-Lok for their new project that concerns “Drive units” that will be shipped to Finland. Great marketing.

Trial packing



END