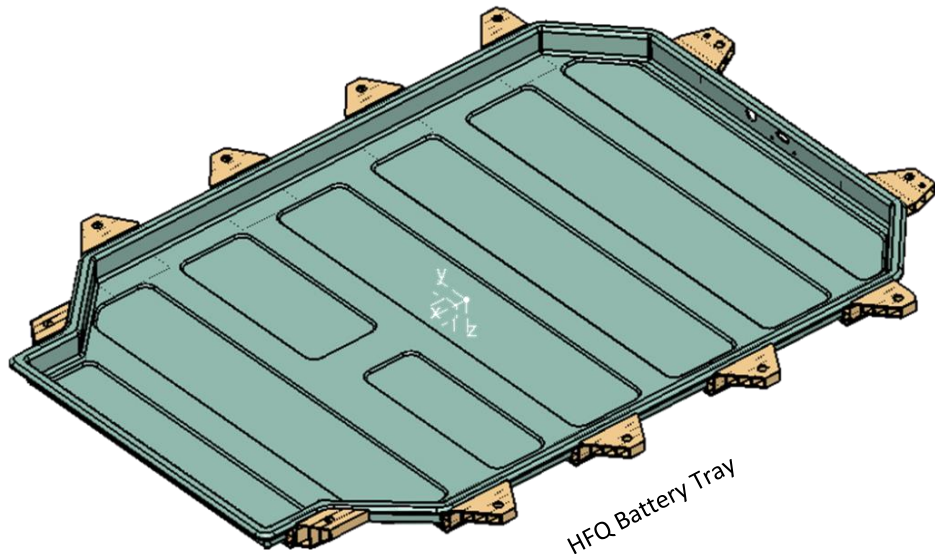


# HFQ<sup>®</sup> Battery Trays for Electric Vehicles

## HFQ - Design Flexibility with Key Attributes

HFQ<sup>®</sup> Technology offers designers and engineers flexible component design because of its ability to combine lightweight, stiffness and high strength with complex geometry. HFQ battery tray solutions reduce the piece part cost vs. extrusion intensive designs and high strength 6xxx sheet alloys further improve component durability and crash performance. HFQ can be combined with other product forms (extrusions and castings) for a complete design solution and is compatible with the latest joining technologies. In addition, HFQ also enables scope to utilise highly recycled aluminium.

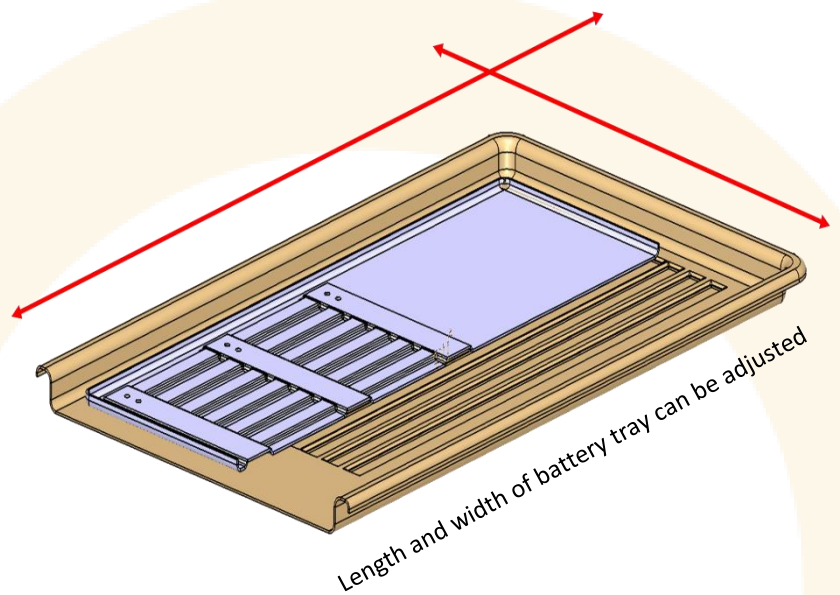


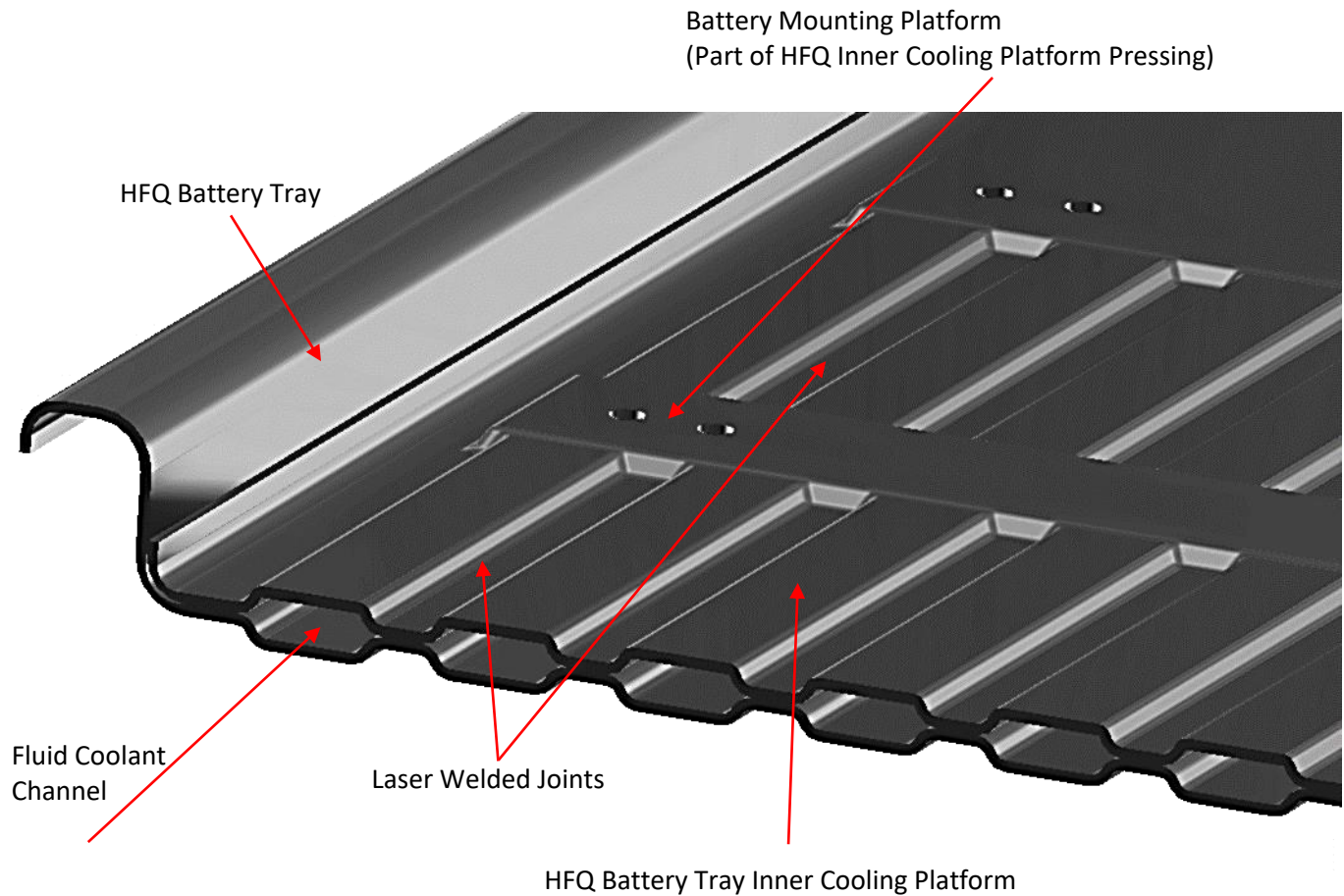
## HFQ - Delivering Lower Cost

HFQ<sup>®</sup> Technology delivers on lower cost through using less material, reduced part count, minimised assembly, and improved dimensional control. HFQ adaptive tooling to adjust the length and width of trays with inserts for various vehicle footprints enables further investment reductions.

## HFQ - A Sustainable Full Life Cycle Solution

HFQ<sup>®</sup> provides a sustainable full life cycle solution. This starts with reducing the mass of the assembly through utilisation of high strength 6xxx material grades. The ability to integrate components and use fewer parts with reductions in the assembly process and associated tooling further reduces the carbon footprint. The enclosure is fully recyclable at End-of-Life.





#### HFQ - Actively Cooled Battery Tray Concept

Additionally, integrated cooling can be incorporated as part of the thermal management system. The coolant channels are formed into both the battery tray, and the mounting platform to enable an efficient, stiff and lightweight assembly.

#### HFQ - Battery Tray Benefits

- Reduced part count, machining, & assembly operations
- Reduced price
- Reduced weight potential
- Improved repeatability & quality
- Improved sealing & water tightness
- Improved manufacturing volume flexibility

For more information, please visit our website - <https://hfqtechnology.com/>