



FLAMINGO

Fabrication of Lightweight Aluminium Metal matrix composites and validation In Green vehicles

Deliverable D 2.2
Specification report on end-users specification and requirements

Lead Beneficiary

ALKÈ

Delivery Date

23rd July 2021



This project has received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement number 101007011

Publishable Executive Summary

This deliverable is a report which collects specific requirements for each selected vehicle component to be used as demonstrator within the FLAMINGo project and includes information about the design of these parts, stresses they need to deal with, cost targets and the definition of the testing methodologies to evaluate final component performance. State-of-the-art vehicle and selected parts specifications including information about functional and operational requirements has been covered as well and used as baseline for next project activity.

The final demonstrator parts are identified within components used on the EV platform ATX3 developed and commercialized by ALKE in more than 40 countries. Two separated parts have been identified to be able to cover two different manufacturing processes: a casted demonstrator and an extruded demonstrator. Both parts are selected also to represent in the best way the highest potential for a scale-up of the new FLAMINGo based material and process in the largest percentage of the vehicle to maximise its lightweight impact.

The selection activity has been done jointly with the technical partners of the project, with which they helped orienting in the right way the requirements to fit feasible scenarios to be developed by the project and have defined various tests and methods for depicting the full performance profile of the new materials.

