

EASA Design Verification Report
Project: 0060079419
Applicant: Dronus S.p.A.
EASA Task Number: 60079419

Date: 18.03.2022

To whomever it may concern,

Dronus S.p.A. has applied on 17th September 2021 to EASA for the Design Verification of the M2 mitigation – Effects of ground impact are reduced, at HIGH robustness for UAS model K250.

The requirements contained in Regulation (EU) N° 2019/947 and (EU) 2019/945 of 24 May 2019 (operation of unmanned aircraft, unmanned aircraft systems and third country operators of unmanned aircraft systems), as amended to this date, have been considered as well as AMC to regulation 2019/947.

The EASA design verification is performed to support the SORA process, as per AMC1 to Article 11 to Regulation 2019/947.

The integrity of the M2 mitigation has been verified through the showing of compliance with paragraph Light-UAS.2512 Mitigation Means linked with Design, of Special Condition Light Unmanned Aircraft Systems - Medium Risk, issue 1, dated 17 December 2020.

EASA evaluation was based on data provided by Dronus S.p.A. The table of reports accepted as substantiation data is provided in Annex 1. The main objective of the evaluation was to assess the reduction of the effect of ground impact provided by the K250 design and to establish the operational limitations and conditions to achieve the HIGH specific assurance and integrity level of the M2 mitigation.

Based on the evaluation conducted, EASA has no technical objection to the M2 mitigation – Effects of ground impact are reduced, at HIGH robustness for UAS model K250 under the following provisions:

- The aircraft configuration is defined in: K250 As Designed Configuration, Ref: DRONUS-EAS-DC-01, Ed.01, Rev.00, dated 22/02/2022
- Applicable operational limitations and conditions:

 1. Max. airspeed: 12 m/s
 2. MTOM: 300 gr*****

This letter does not constitute an operational approval. The operator remains responsible for demonstrating compliance with any requirement as established by the competent authority in the frame of an operational authorization.

Sincerely,



Volker Arnsmeyer
Section Manager eVTOL & Light UAS
EASA - Certification Directorate

cc.: Cristina Angulo, EASA Certification Directorate
Antonio Marchetto, EASA Certification Directorate

Annex 1

Substantiation reports accepted to support K250 M2 mitigation HIGH technical aspects

Report	Reference	Issue	Dated
K250 M2 Design Verification Programme	DRONUS-EAS-DV-01	1.1	22/02/2022
K250 M2 Drawings and Rationales	DRONUS-EAS-DR-01	1	19/02/2022
K250 M2 Flight Test Programme	DRONUS-EAS-FT-01	1.1	11/02/2022
K250 M2 Flight Test Report	DRONUS-EAS-FR-01	1	22/02/2022