



European Space Research  
and Technology Centre  
Keplerlaan 1  
2201 AZ Noordwijk  
The Netherlands  
T +31 (0)71 565 6565  
F +31 (0)71 565 6040  
[www.esa.int](http://www.esa.int)

**ACB**  
**att. W Perdu, CTO**  
**Vosmeer 3**  
**9200 Dendermonde**  
**Belgium**

Our ref. ESA-TECQTM-LE-3906

Noordwijk, 21/12/2016

VISA: T Ghidini (TEC-QTM), M Nikulainen (TEC-QT)  
CC: W Veith (TEC-Q), A Bonzi (CNES)

**Subject: Qualification Status of ACB**

Dear Mr Perdu,

ACB submitted a request for ESA qualification in Jul 2014. This request was confirmed by ACB in Oct 2015 in response to ESA's call for new requests for qualification. The qualification dossier was prepared together with ACB's main customer. ESA's review of that dossier and actions are documented in ESA-TECQTM-LE-1238.

ESA conducted an audit of ACB in Mar 2016 during which several actions are defined as reported in ESA-TECQTM-MIN-1550. The response to actions was reviewed and found acceptable for audit closure as reported in MoM from 21-12-2016.

ACB submitted to ESA a rigid-flex PCB for evaluation. The acceptable evaluation is reported in ESA-TECQTM-LAB-RP-003647. The acceptable project qualification of the 6 layer non-sequential rigid PCB is reported by ESA in QT-7865.

ACB issued on 7 Nov 2016 the qualification report for rigid-flex PCB technology showing compliance to ECSS-Q-ST-70-10. It is expected that ACB performs delta qualification for sequential rigid technology with higher layer count to meet customer demands. ACB issued Product Identification Documents (PID) for both technologies, which have been approved by ESA.

ACB Dendermonde is considered ESA qualified in accordance with ECSS-Q-ST-70-10C for the manufacture of Printed Circuit Boards as follows:

Rigid non-sequential polyimide PCBs as per PID\_Rigid\_v161107 ed 1 **until 1 January 2018**  
Rigid-flex sequential polyimide PCBs as per PID\_FR\_v161107 ed 1 **until 1 January 2018**

Best regards,

A handwritten signature in blue ink, appearing to be 'SH' or similar, enclosed in a circular scribble.

Stan Heltzel  
Material Technology Section