



## **ASSESSMENT AND TEST REPORT** Report Number: MTEEx 1074/20.0253 B

Digital Matter Embedded  
No.7 Pinetree Business Park  
63 Brahrman Crescent  
Westfield  
Edenvale  
1610

Date: 27/08/2020  
Client Reference: PO-01772  
Revision: 0

### 1. Standard (s) used

Testing was conducted in accordance with the following standards:

IEC 62262: 2002-02 First edition	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)
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### 2. APPARATUS PROPERTIES

Manufacturer : Digital Matter Embedded  
Type of product : Enclosure  
Model : Yabby

The enclosure was manufactured from PA 6-Copolymer, 15% glass fibres, injection moulding, heat-aging stabilized. The enclosure had the following overall dimensions: 85mm x 63mm x 24mm (Assembled)The enclosure consisted of two parts, bolted together by means of six Philips head self-tapping screws.

### 3. Test results

#### 3.1 Clause 9.7- Degree of protection against external mechanical impacts (IK code).

##### Test conditions

Temperature : 22.32 °C  
Air pressure : 1018 hPa

Reviewed by + signature (ExTL):	D du Plessis	
Approved by + signature (ExCB): (MTEEx Laboratories Technical Signatory)	H. de Wet	



Each exposed surface of the enclosure was subjected to five impact tests (If area was big enough) starting at an impact energy of 0.14J.

**IK06 (Enclosure front part)**

The front part of the enclosure resisted an impact of 0.14J, 0.2J, 0.35J, 0.5J, 0.7J and 1J (Five tests at each impact energy)



**IK07 (Enclosure back part)**

The back part of the enclosure resisted an impact of 0.14J, 0.2J, 0.35J, 0.5J, 0.7J, 1J, and 2J (Five tests at each impact energy)



**Conclusion:**

The front part of the enclosure had an IK06 rating assigned to it.  
The back part of the enclosure had an IK07 rating assigned to it.

**MTEx Laboratories**

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**End of Report**