**INTERNATIONAL ELECTROTECHNICAL COMMISSION (IEC) SYSTEM FOR CERTIFICATION TO STANDARDS RELATING TO EQUIPMENT FOR USE IN EXPLOSIVE ATMOSPHERES (IECEx SYSTEM)**

**Title: ExTAG/674/CD** – **Draft ExTAG Decision Sheet –** **The number of impact test conducted on the equipment**

**Circulated to: ExTAG – IECEx Testing and Assessment Group**

**INTRODUCTION**

This document, *ExTAG/674/CD, Draft ExTAG Decision Sheet – The number of impact test conducted on the equipment* has been prepared by CQM and is issued for consideration by ExTAG.

In accordance with OD 035 this document is issued for a six week comment period.

Please submit comments on this new Draft DS using the comments table, a separate document, by –

**2022 05 06**

to

**Christine Kane**

**ExTAG Secretariat**

|  |  |
| --- | --- |
| **Address:****IECEx Secretariat****Level 33, Australia Square****264 George Street****Sydney NSW 2000****Australia** | **Contact Details:****Tel: +61 2 4628 4690****Fax: +61 2 4627 5285****e-mail:** **info@iecex.com**[**http://www.iecex.com**](http://www.iecex.com) |

**COLLECTION OF IECEx / ExTAG DECISIONS**

|  |  |  |
| --- | --- | --- |
| Standard: IEC 60079-0:2017 | **Clauses:** 26.4.2 | **Draft Decision Sheet:**ExTAG/674/CD |
| **Subject:** The number of impact conducted on one sample **Status of document:** Draft | **Key words:** * Glass Window
* Fan hood
* Cable Gland
 | Date: March 2022 **Originator of proposal:** CQM**TC/SC involved:** IEC/SC 31M WG 1 |

**BACKGROUND:**

The requirements of impact test have been given in IEC 60079-0:2017 clause 26.4.2

“*The test shall be made on at least two samples of the equipment, see 26.4.1. The test shall*

*be made at two separate places on each sample. For equipment with light-transmitting parts*

*made of glass, only one of those two tests shall be on the glass*.”

IEC 60079-0:2017 clause 17.2.3.2 describes additional requirement of impact on the fans, fan hoods and ventilation screen.

“*The fans, fan hoods and ventilation screens shall be constructed to meet the requirements of the resistance to impact test according to 26.4.2 and the acceptance criteria given in 26.4.4.*”

IEC 60079-0:2017 clause A.3.3 describes impact on the cable gland.

“ *For the tests of 26.4.2, each type and size of cable gland shall be tested with the smallest mandrel or smallest cable size fitted*.”

**QUESTION:**

For an equipment, incorporating glass window, fan hoods and integrated cable gland at the meantime, how many impact is required to comply with clause 26.4.2 of IEC 60079-0:2017?

**ANSWER:**

Four impacts are required. Impact should be performed on the housing itself, the glass window, fan hoods and the cable gland