DIN EN ISO 7096:2020-08 (E)

Earth-moving machinery - Laboratory evaluation of operator seat vibration (ISO 7096:2020)

Contents

Page

European foreword ... **3**

Annex ZA (informative) **Relationship between this European Standard and the essential requirements of Directive 2006/42/EC aimed to be covered** ... **4**

Foreword ... **5**

Introduction ... **6**

1 Scope ... **7**

2 Normative references ... **8**

3 Terms, definitions, symbols and abbreviated terms ... **8**
3.1 Terms and definitions ... 8
3.2 Symbols and abbreviated terms ... 9

4 General ... **10**

5 Test conditions and test procedure ... **10**
5.1 General ... 10
5.2 Simulation of vibration ... 11
5.3 Test seat ... 11
5.3.1 General ... 11
5.3.2 Run-in ... 11
5.3.3 Seat adjustment ... 11
5.4 Test person and posture ... 11
5.5 Input vibration ... 12
5.5.1 Simulated input vibration test to evaluate the SEAT factor ... 12
5.5.2 Damping test ... 12
5.5.3 Damping test for active and semi-active suspension systems ... 13
5.6 Tolerances on input vibration ... 13
5.6.1 General ... 13
5.6.2 Distribution function ... 13
5.6.3 Power spectral density and rms values ... 13

6 Acceptance values ... **14**
6.1 SEAT factor ... 14
6.2 Damping performance ... 14

7 Seat identification ... **15**

8 Information for use ... **15**
8.1 General ... 15
8.2 Test report ... 15

Bibliography ... **29**