

<b>STN</b>	<b>Klasifikácia podmienok prostredia Časť 3-2: Klasifikácia skupín parametrov prostredia a stupňov ich prísnosti Doprava a manipulácia Oprava AC2</b>	<b>STN EN IEC 60721-3-2/AC2</b>  <b>03 8900</b>
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Classification of environmental conditions - Part 3-2: Classification of groups of environmental parameters and their severities - Transportation and Handling

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 09/22

Obsahuje: EN IEC 60721-3-2:2018/AC Jul.:2022, IEC 60721-3-2:2018/COR2:2022

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN IEC 60721-3-  
2:2018/AC:2022-07**

July 2022

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ICS 19.040

English Version

**Classification of environmental conditions - Part 3-2:  
Classification of groups of environmental parameters and their  
severities - Transportation and handling  
(IEC 60721-3-2:2018/COR2:2022)**

Classification des conditions d'environnement - Partie 3-2:  
Classification des groupements des agents  
d'environnement et de leurs sévérités - Transport et  
manutention  
(IEC 60721-3-2:2018/COR2:2022)

Klassifizierung von Umgebungsbedingungen - Teil 3-2:  
Klassifizierung von Einflussgrößen in Gruppen und deren  
Schärfegrade - Transport und Handhabung  
(IEC 60721-3-2:2018/COR2:2022)

This corrigendum becomes effective on 8 July 2022 for incorporation in the English language version of the EN.



European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

### **Endorsement notice**

The text of the corrigendum IEC 60721-3-2:2018/COR2:2022 was approved by CENELEC as EN IEC 60721-3-2:2018/AC:2022-07 without any modification.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION  
COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

**IEC 60721-3-2**  
Edition 3.0 2018-02

**IEC 60721-3-2**  
Édition 3.0 2018-02

**CLASSIFICATION OF ENVIRONMENTAL  
CONDITIONS –**

**Part 3-2: Classification of groups of  
environmental parameters  
and their severities –  
Transportation and handling**

**CLASSIFICATION DES CONDITIONS  
D'ENVIRONNEMENT –**

**Partie 3-2: Classification des groupements des  
agents d'environnement  
et de leurs sévérités –  
Transport et manutention**

**C O R R I G E N D U M 2**

Corrections to the French version appear after the English text.

Les corrections à la version française sont données après le texte anglais.

## 5.6 M Mechanical conditions

Replace the existing Table 5 with the following new Table 5:

**Table 5 – Classification of mechanical conditions**

<b>Environmental parameter</b>	<b>Unit</b>	<b>Class</b>							
		<b>2M4</b>			<b>2M5</b>			<b>2M6</b>	
a) <i>Stationary vibration, random: acceleration power spectral density frequency range<sup>1)</sup></i>	(m/s <sup>2</sup> ) <sup>2</sup> /Hz	10 <sup>2)</sup>	1,0	0,5	30	3,0	1	10	5
Hz		2 to 3	10 to 20	50 to 2 000	2 to 3	10 to 20	50 to 2 000	5 to 200	500 to 2 000
b) <i>Non-stationary vibration including shock.<sup>3)</sup> Shock 1<sup>4)</sup></i>		Figure 2 Curve 4 (equivalent to a half sine pulse of 100 m/s <sup>2</sup> and 11 ms duration)			Figure 2 Curve 3 (equivalent to a half sine pulse of 300 m/s <sup>2</sup> and 11 ms duration)			Figure 2 Curve 3 (equivalent to a half sine pulse of 300 m/s <sup>2</sup> and 11 ms duration)	
Shock 2 <sup>4)</sup>		Figure 2 Curve 2 (equivalent to a half sine pulse of 300 m/s <sup>2</sup> and 6 ms duration)			Figure 2 Curve 1 (equivalent to a half sine pulse of 1 000 m/s <sup>2</sup> and 6 ms duration)			Figure 2 Curve 1 (equivalent to a half sine pulse of 1 000 m/s <sup>2</sup> and 6 ms duration)	

c) Free fall: mass less than 20 kg mass 20 kg to 100 kg mass more than 100 kg	m m m	0,25 0,25 0,1	1,2 1,0 0,25	1,5 1,2 0,5
d) Toppling: mass less than 20 kg mass 20 kg to 100 kg mass more than 100 kg	None None None	Toppling around any of the edges No No	Toppling around any of the edges Toppling around any of the edges No	Toppling around any of the edges Toppling around any of the edges Toppling around any of the edges
e) Rolling, pitching: angle <sup>5)</sup> period	Degrees None	No No	±35 8	±35 8
f) Steady-state acceleration	m/s <sup>2</sup>	20	20	20
g) Static load	kPa	5	10	10
<p><sup>1)</sup> When transport only occurs by rail, river, sea and road, the upper frequency considered may be reduced to 500 Hz for products that are not sensitive to vibration excitations above 500 Hz.</p> <p><sup>2)</sup> The low frequency stationary vibration random component arises from the influence of land vehicle suspension systems. The component is included for design purposes but is not always included in vibration test specifications.</p> <p><sup>3)</sup> For land vehicles, these shocks can occur simultaneously with the stationary vibration random conditions.</p> <p><sup>4)</sup> Both shocks would normally be used to encompass different aspects of the shock environment.</p> <p><sup>5)</sup> An angle of 35° may only occur temporarily. An angle of up to 22,5° can be reached for long periods of time.</p>				

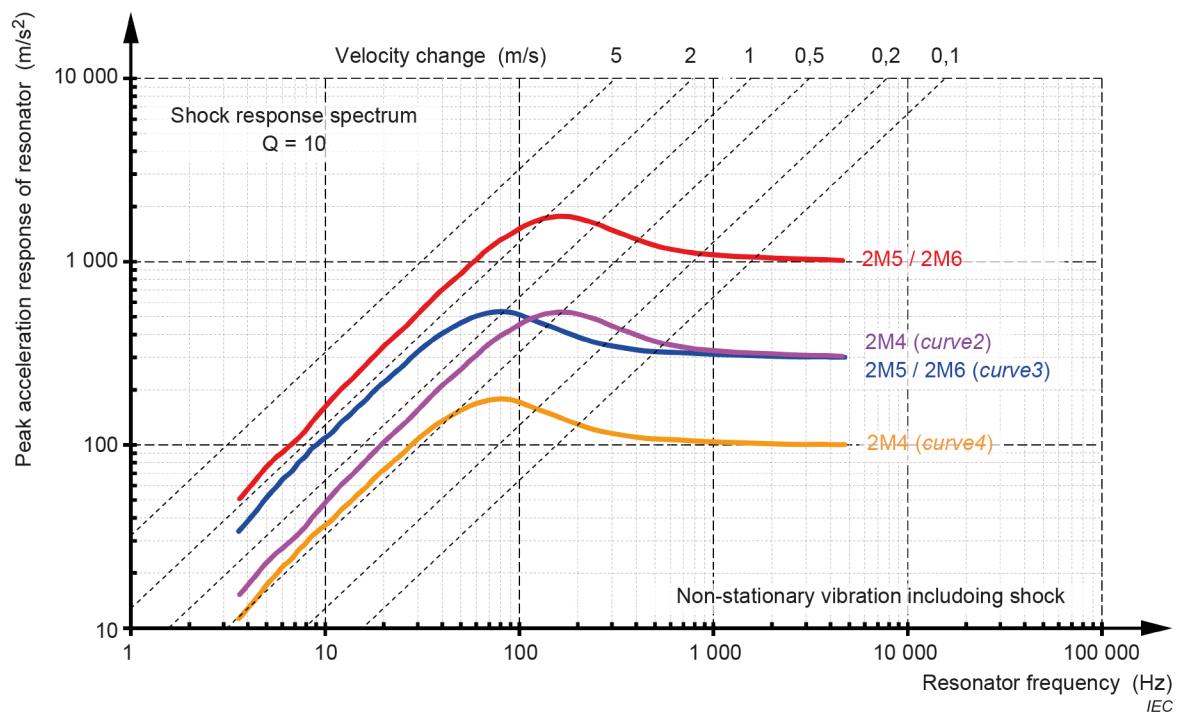
## Figure 2 – Consolidation of mechanical conditions

Delete the existing top figure and retain the existing bottom figure only, as shown:

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**Figure 2 – Consolidation of mechanical conditions**

