

# DIN EN ISO 25178-72:2017-11 (E)

## Geometrical product specifications (GPS) - Surface texture: Areal - Part 72: XML file format x3p (ISO 25178-72:2017)

---

<b>Contents</b>		Page
<b>European foreword</b> .....		<b>3</b>
<b>Foreword</b> .....		<b>4</b>
<b>Introduction</b> .....		<b>5</b>
<b>1 Scope</b> .....		<b>6</b>
<b>2 Normative references</b> .....		<b>6</b>
<b>3 Terms and definitions</b> .....		<b>6</b>
<b>4 Requirements</b> .....		<b>9</b>
4.1 Units.....		9
4.2 Recommended offset value.....		9
<b>5 x3p file format</b> .....		<b>9</b>
5.1 General.....		9
5.2 File name extension.....		9
5.3 Minimum contents of zip-container.....		9
5.4 Optional contents of zip-container.....		9
5.4.1 General.....		9
5.4.2 Binary encoded coordinates.....		10
5.4.3 Validity mask.....		10
5.4.4 Vendor specific extensions.....		10
5.5 Contents and format of main.xml.....		10
5.5.1 General.....		10
5.5.2 Main records.....		10
5.5.3 Record1: Header, data types, and axes definitions.....		10
5.5.4 Record2: Meta data.....		13
5.5.5 Record3: 3D point data.....		15
5.5.6 Record4: Checksum information.....		19
5.5.7 Vendor specific extensions.....		19
<b>Annex A (informative) XML file format</b> .....		<b>19</b>
<b>Annex B (informative) Sample main.xml</b> .....		<b>25</b>
<b>Annex C (informative) Relation with the GPS matrix</b> .....		<b>27</b>
<b>Bibliography</b> .....		<b>28</b>