

DIN EN ISO 25178-72:2021-01 (E)

Geometrical product specifications (GPS) - Surface texture: Areal - Part 72: XML file format x3p (ISO 25178-72 :2017 + Amd 1:2020) (includes Amendment A1:2020)

Contents	Page
European foreword	3
 A1 European foreword to Amendment A1	4
Foreword	5
 A1 Foreword to Amendment A1	6
Introduction	7
1 Scope	8
2 Normative references	8
3 Terms and definitions	8
4 Requirements	11
4.1 Units	11
4.2 Recommended offset value	11
5 x3p file format	11
5.1 General	11
5.2 File name extension	11
5.3 Minimum contents of zip-container	11
5.4 Optional contents of zip-container	11
5.4.1 General	11
5.4.2 Binary encoded coordinates	12
5.4.3 Validity mask	12
5.4.4 Vendor specific extensions	12
5.5 Contents and format of main.xml	12
5.5.1 General	12
5.5.2 Main records	12
5.5.3 Record1: Header, data types, and axes definitions	12
5.5.4 Record2: Meta data	15
5.5.5 Record3: 3D point data	17
5.5.6 Record4: Checksum information	21
5.5.7 Vendor specific extensions	21
Annex A (informative) XML file format	22
Annex B (informative) Sample main.xml	27
Annex C (informative) Relation with the GPS matrix	29
Bibliography	30