

ISO 25178-71:2026-08 (E)

Geometrical product specifications (GPS) - Surface texture: Areal - Part 71: SDF file format

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Types of software measurement standards	4
4.1 General	4
4.2 Type S1, reference data	4
4.3 Type S2, reference software	4
5 File format for Type S1, reference data	4
5.1 General	4
5.2 Record 1 -- Header	5
5.2.1 General	5
5.2.2 Version number	5
5.2.3 Measurement instrument manufacturer's identifier	5
5.2.4 Original creation date and time	5
5.2.5 Last modification date and time	5
5.2.6 Number of columns in the data matrix, M	5
5.2.7 Number of rows in the data matrix, N	5
5.2.8 X-scale factor	5
5.2.9 Y-scale factor	6
5.2.10 Z-scale factor	6
5.2.11 Z-resolution	6
5.2.12 Compression type	6
5.2.13 Data type	6
5.2.14 Checksum type	6
5.2.15 Header description	6
5.3 Record 2 -- Data area	7
5.3.1 General	7
5.3.2 Handling of non-measured or spurious points	8
5.4 Record 3 -- Trailer	9
6 Software measurement standard certificate	9
Annex A (normative) ASCII and binary representation of the SDF format	10
Annex B (informative) Relationship to the GPS matrix model	12
Bibliography	13