

# DIN ISO 10110-16:2024-12 (E)

## Optics and photonics - Preparation of drawings for optical elements and systems - Part 16: Diffractive surfaces (ISO 10110-16:2023)

---

<b>Contents</b>	<b>Page</b>
<b>National foreword</b> .....	<b>3</b>
<b>National Annex NA (informative) Bibliography</b> .....	<b>4</b>
<b>Foreword</b> .....	<b>5</b>
<b>Introduction</b> .....	<b>6</b>
<b>1 Scope</b> .....	<b>7</b>
<b>2 Normative references</b> .....	<b>7</b>
<b>3 Terms and definitions</b> .....	<b>7</b>
<b>4 Coordinate systems</b> .....	<b>10</b>
4.1 General.....	10
4.2 Description of global and local coordinate systems.....	10
4.3 Sign convention.....	13
<b>5 Drawing specifications</b> .....	<b>13</b>
5.1 General.....	13
5.2 Symbols and abbreviations.....	14
5.3 Marking and hatching.....	14
5.4 Test regions.....	16
5.5 Technological parameters:.....	17
5.6 Specification of the substrates.....	17
5.6.1 Specification of surface form tolerances.....	17
5.6.2 Specifications for wave front deformation tolerances.....	18
5.6.3 Specification of other optical tolerances.....	18
<b>6 Data exchange</b> .....	<b>18</b>
<b>Annex A (informative) Classification of diffractive structures</b> .....	<b>20</b>
<b>Annex B (informative) The three most important types of diffractive structures</b> .....	<b>22</b>
<b>Bibliography</b> .....	<b>35</b>