



**INTERNATIONAL STANDARD ISO 12135:2002**  
**TECHNICAL CORRIGENDUM 1**

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

**Metallic materials — Unified method of test for the  
determination of quasistatic fracture toughness**

**TECHNICAL CORRIGENDUM 1**

*Matériaux métalliques — Méthode unifiée d'essai pour la détermination de la ténacité quasi statique*

*RECTIFICATIF TECHNIQUE 1*

Technical Corrigendum 1 to ISO 12135:2002 was prepared by Technical Committee ISO/TC 164, *Mechanical testing of metals*, Subcommittee SC 4, *Toughness testing — Fracture (F), Pendulum (P), Tear (T)*.

*Page 1, Clause 2*

Replace the reference to ISO 7500-1:— with the following:

ISO 7500-1, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Verification and calibration of the force-measuring system*

Delete the reference to Footnote 1) and the footnote “To be published. (Revision of ISO 7500-1:1999)”.

*Page 13, Figure 6*

Add “(not to scale)”.

Move the note from under the title of Figure 6 to above the title.

*Page 16, Figure 9, Footnote d)*

Replace “on” with “or” to give

<sup>d</sup> Edge of bend or straight compact specimen.

**ICS 77.040.10**

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Page 21, Figure 11

In NOTE 3, replace “displacement” with “displacements” to give:

NOTE 3 For specimens showing large displacements, clevis hole dimensions shall be enlarged to the values shown in brackets.

Exchange the texts of footnotes a) and b) to give:

- a Loading flat.
- b Corners of clevis may be removed if necessary to accommodate clip gauge.

Page 25, Figure 13

Replace Figure 13 with the following.

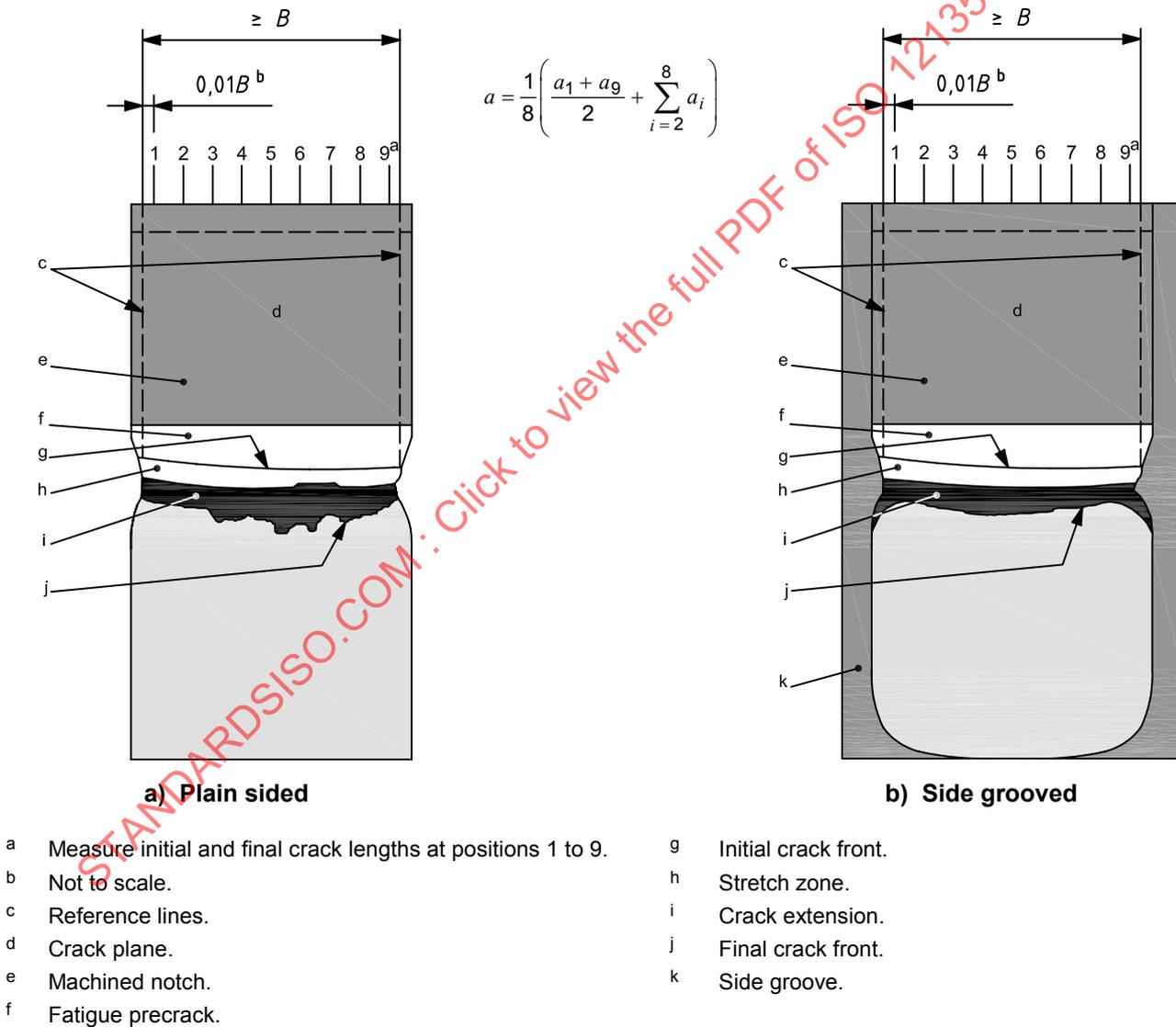
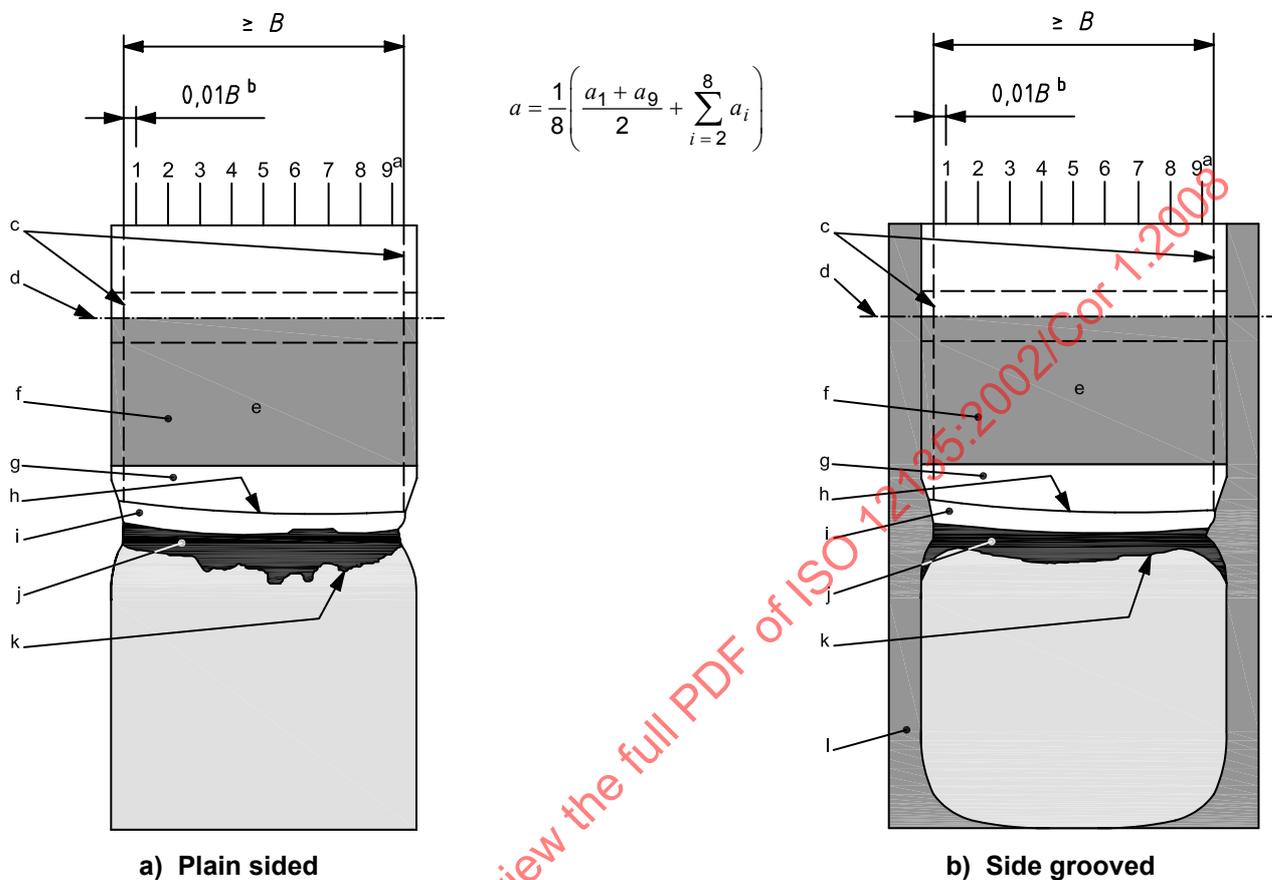


Figure 13 — Measurement of crack lengths on bend specimens

Page 26, Figure 14

Replace Figure 14 with the following. Note that the wording in Footnote a) has been modified.



- a Measure the initial and final crack lengths from centreline of pinhole at positions 1 to 9.
- b Not to scale.
- c Reference lines.
- d Centreline of pinhole.
- e Crack plane.
- f Machined notch.
- g Fatigue precrack.
- h Initial crack front.
- i Stretch zone.
- j Crack extension.
- k Final crack front.
- l Side groove.

Figure 14 — Measurement of crack lengths on compact specimen

Page 26, 5.8.2, list items

Replace c), d), e) and f) with a), b, c) and d).

Page 28, 6.1, list item a)

Place a comma between “determinations” and “or”.

Page 29, 2nd paragraph

Change “1,1” to “1,10” (in two places), to give:

The maximum force  $F_{\max}$  (see Figure 16) sustained by the specimen is recorded and the ratio  $F_{\max}/F_Q$  calculated. If that ratio exceeds 1,10,  $K_Q$  is considered to bear an insufficient relation to  $K_{Ic}$  and the record is then interpreted in accordance with 6.3 or 6.4. If  $F_{\max}/F_Q$  is less than 1,10,  $K_Q$  is calculated directly in accordance with 6.2.3.

Page 47, A.1.1, 2nd sentence

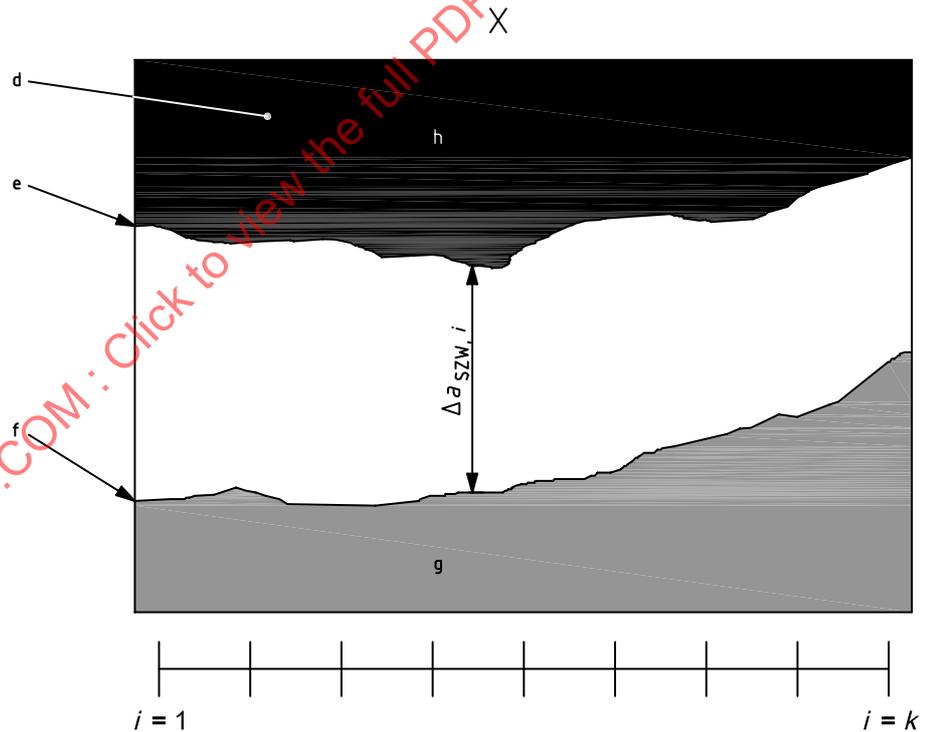
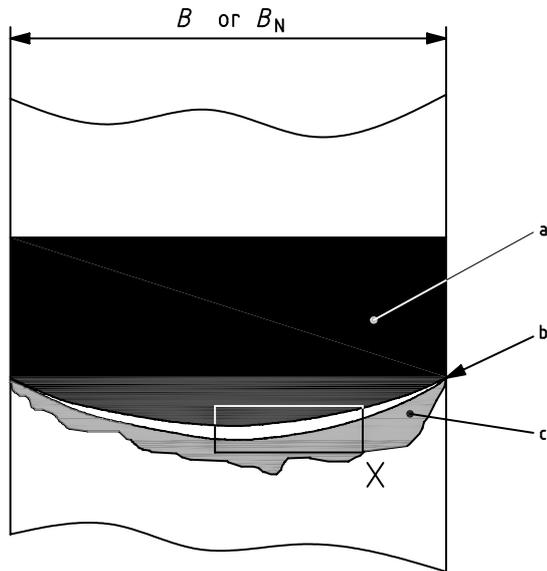
Delete “of a” to give:

An example SEM photograph is shown in Figure A.1.

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Page 48, Figure A.2

Replace Figure A.2 with the following.



- a Fatigue precrack.
- b Stretch zone.
- c Stable crack extension.
- d Image plane parallel to fatigue surface.
- e Beginning of stretch zone.
- f End of stretch zone.
- g SEM photograph.
- h Crack plane.

$$\Delta a_{SZW,L} = \frac{1}{k} \sum_{i=1}^k \Delta a_{SZW,i}$$

Figure A.2 — Determination of  $\Delta a_{SZW}$